

GENERAL SUMMARY

Prepared for:

Project ID:

Scope:

HVAC

No. Of Floors:

1

Date:

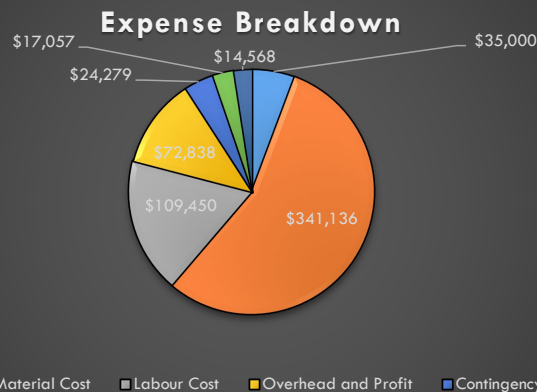


BUILDING GSF 12,013

DIVISION NO.	DESCRIPTION	AMOUNT	TOTAL DIV. COST
1000	General Requirements	\$ 35,000	2.913510364
23000	HVAC	\$ 450,587	37.50826673
TOTAL TRADE COST		\$ 485,587	\$ 40

OVERHEAD AND PROFIT	15%	\$ 72,838	\$ 6.06
INSURANCE	3%	\$ 14,568	\$ 1.21
CONTINGENCY	5%	\$ 24,279	\$ 2.02
TAX	5%	\$ 17,057	\$ 2.02
TOTAL TRADE COST		\$ 614,329	\$ 52

EXPENSE BREAKDOWN		
SR#	DESCRIPTION	TOTAL DIV. COST
1	General Requirements	\$ 35,000
2	Material Cost	\$ 341,136
3	Labour Cost	\$ 109,450
4	Overhead and Profit	\$ 72,838
5	Contingency	\$ 24,279
6	Tax	\$ 17,057
7	Insurance	\$ 14,568



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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS										
1	Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00
2	Supervision and Coordination	LS	1.5	0%	2	0.000	\$ -	\$ -	\$ 10,000.00	\$ 15,000.00
3	Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00
4	Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00
5	Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ 10,000.00	\$ 10,000.00
6	Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00
7	Scaffolding	SF	0	0%	0	0.000	\$ -	\$ -	\$ 1,800.00	\$ -
					LABOUR RATE	\$ 62.00	SUBTOTAL \$ 35,000			
HVAC										
Flexible Duct										
8	6" Dia Flexible Duct	LF	52	10%	57	0.060	\$ 3.72	\$ 5.84	\$ 9.56	\$ 549.04
9	8" Dia Flexible Duct	LF	141	10%	155	0.060	\$ 3.72	\$ 6.45	\$ 10.17	\$ 1,574.57
10	10" Dia Flexible Duct	LF	7	10%	7	0.082	\$ 5.08	\$ 9.10	\$ 14.18	\$ 106.10
11	12" Dia Flexible Duct	LF	32	10%	35	0.082	\$ 5.08	\$ 12.30	\$ 17.38	\$ 605.61
12	14" Dia Flexible Duct	LF	10	10%	11	0.090	\$ 5.58	\$ 14.50	\$ 20.08	\$ 217.13
13	16" Dia Flexible Duct	LF	8	10%	8	0.100	\$ 6.20	\$ 17.50	\$ 23.70	\$ 196.05
	Hot Water Supply Pipe Underground									
	Schedule 40 Black Steel Pipe With ASTM A53, Type F, Standard Weight With ASTM A126/ANSI B16.4, Class 125, Standard Weight Cast Iron Threaded Fittings									
14	1/2" Dia Hot Water Supply Pipe	LF	55	10%	61	0.080	\$ 4.96	\$ 2.70	\$ 7.66	\$ 466.21
	Insulation									
	1" Pipe, WATTS R-Flex Dual									
15	1/2" Dia Hot Water Supply Pipe	LF	55	10%	61	0.039	\$ 2.42	\$ 2.80	\$ 5.22	\$ 317.58
	Hot Water Supply Pipe Fittings									
	Elbow									
16	1/2" Dia Hot Water Supply Pipe 90 Deg Elbow	EA	8	0%	8	0.250	\$ 15.50	\$ 2.71	\$ 18.21	\$ 145.68
	Hot Water Supply Pipe									
	Schedule 40 Black Steel Pipe With ASTM A53, Type F, Standard Weight With ASTM A126/ANSI B16.4, Class 125, Standard Weight Cast Iron Threaded Fittings									
17	1/2" Dia Hot Water Supply Pipe	LF	241	10%	265	0.080	\$ 4.96	\$ 2.70	\$ 7.66	\$ 2,028.73
18	3/4" Dia Hot Water Supply Pipe	LF	335	10%	368	0.098	\$ 6.08	\$ 2.95	\$ 9.03	\$ 3,323.00
19	1" Dia Hot Water Supply Pipe	LF	16	10%	17	0.170	\$ 10.54	\$ 3.53	\$ 14.07	\$ 243.92
20	1-1/4" Dia Hot Water Supply Pipe	LF	54	10%	60	0.200	\$ 12.40	\$ 3.90	\$ 16.30	\$ 974.67
21	1-1/2" Dia Hot Water Supply Pipe	LF	48	10%	53	0.240	\$ 14.88	\$ 4.80	\$ 19.68	\$ 1,039.75
22	2" Dia Hot Water Supply Pipe	LF	170	10%	187	0.280	\$ 17.36	\$ 6.70	\$ 24.06	\$ 4,506.90
	Insulation									
	1-1/2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
23	1/2" Dia Hot Water Supply Pipe	LF	241	10%	265	0.039	\$ 2.42	\$ 2.80	\$ 5.22	\$ 1,381.97
24	3/4" Dia Hot Water Supply Pipe	LF	335	10%	368	0.039	\$ 2.42	\$ 2.95	\$ 5.37	\$ 1,976.28
25	1" Dia Hot Water Supply Pipe	LF	16	10%	17	0.056	\$ 3.47	\$ 3.20	\$ 6.67	\$ 115.67
26	1-1/4" Dia Hot Water Supply Pipe	LF	54	10%	60	0.056	\$ 3.47	\$ 3.50	\$ 6.97	\$ 416.90
27	1-1/2" Dia Hot Water Supply Pipe	LF	48	10%	53	0.062	\$ 3.84	\$ 3.96	\$ 7.80	\$ 412.31
	2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
28	2" Dia Hot Water Supply Pipe	LF	170	10%	187	0.280	\$ 17.36	\$ 6.70	\$ 24.06	\$ 4,506.90
	Hot Water Supply Pipe Fittings									
	Elbow									
29	1/2" Dia Hot Water Supply Pipe 90 Deg Elbow	EA	76	0%	76	0.250	\$ 15.50	\$ 2.71	\$ 18.21	\$ 1,383.96
30	3/4" Dia Hot Water Supply Pipe 90 Deg Elbow	EA	51	0%	51	0.300	\$ 18.60	\$		

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR COST	MAT. COST	UNIT COST	SUB COST
	Elbow									
52	1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	8	0%	8	0.250	\$ 15.50	\$ 2.71	\$ 18.21	\$ 145.68
	Hot Water Return Pipe									
	Schedule 40 Black Steel Pipe With ASTM A53, Type F, Standard Weight With ASTM A126/ANSI B16.4, Class 125, Standard Weight Cast Iron Threaded Fittings									
53	1/2" Dia Hot Water Return Pipe	LF	234	10%	258	0.080	\$ 4.96	\$ 2.70	\$ 7.66	\$ 1,973.12
54	3/4" Dia Hot Water Return Pipe	LF	367	10%	403	0.098	\$ 6.08	\$ 2.95	\$ 9.03	\$ 3,639.82
55	1" Dia Hot Water Return Pipe	LF	46	10%	50	0.170	\$ 10.54	\$ 3.53	\$ 14.07	\$ 708.54
56	1-1/4" Dia Hot Water Return Pipe	LF	17	10%	19	0.200	\$ 12.40	\$ 3.90	\$ 16.30	\$ 311.98
57	1-1/2" Dia Hot Water Return Pipe	LF	38	10%	41	0.240	\$ 14.88	\$ 4.80	\$ 19.68	\$ 812.88
58	2" Dia Hot Water Return Pipe	LF	199	10%	219	0.280	\$ 17.36	\$ 6.70	\$ 24.06	\$ 5,258.00
	Insulation									
	1-1/2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
59	1/2" Dia Hot Water Return Pipe	LF	234	10%	258	0.039	\$ 2.42	\$ 2.80	\$ 5.22	\$ 1,344.09
60	3/4" Dia Hot Water Return Pipe	LF	367	10%	403	0.039	\$ 2.42	\$ 2.95	\$ 5.37	\$ 2,164.70
61	1" Dia Hot Water Return Pipe	LF	46	10%	50	0.056	\$ 3.47	\$ 3.20	\$ 6.67	\$ 335.99
62	1-1/4" Dia Hot Water Return Pipe	LF	17	10%	19	0.056	\$ 3.47	\$ 3.50	\$ 6.97	\$ 133.44
63	1-1/2" Dia Hot Water Return Pipe	LF	38	10%	41	0.062	\$ 3.84	\$ 3.96	\$ 7.80	\$ 322.34
	2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
64	2" Dia Hot Water Return Pipe	LF	199	10%	219	0.280	\$ 17.36	\$ 6.70	\$ 24.06	\$ 5,258.00
	Hot Water Return Pipe Fittings									
	Elbow									
65	1" Dia Hot Water Return Pipe 90 Deg Elbow	EA	9	0%	9	0.350	\$ 21.70	\$ 3.80	\$ 25.50	\$ 229.50
66	1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	77	0%	77	0.250	\$ 15.50	\$ 2.71	\$ 18.21	\$ 1,402.17
67	1-1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	2	0%	2	0.450	\$ 27.90	\$ 4.50	\$ 32.40	\$ 64.80
68	1-1/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	1	0%	1	1.450	\$ 89.90	\$ 4.70	\$ 94.60	\$ 94.60
69	2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	27	0%	27	0.480	\$ 29.76	\$ 5.00	\$ 34.76	\$ 938.52
70	3/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	55	0%	55	0.300	\$ 18.60	\$ 3.20	\$ 21.80	\$ 1,199.00
	Tee									
71	3/4" Dia Hot Water Return Pipe Tee	EA	2	0%	2	0.330	\$ 20.46	\$ 8.61	\$ 29.07	\$ 58.14
72	2" Dia Hot Water Return Pipe Tee	EA	2	0%	2	0.980	\$ 60.76	\$ 24.00	\$ 84.76	\$ 169.52
73	3/4" / 1/2" Dia Hot Water Return Pipe Tee	EA	4	0%	4	0.600	\$ 37.20	\$ 13.10	\$ 50.30	\$ 201.20
74	1" / 1/2" Dia Hot Water Return Pipe Tee	EA	2	0%	2	0.650	\$ 40.30	\$ 14.50	\$ 54.80	\$ 109.60
75	1" / 3/4" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.650	\$ 40.30	\$ 14.50	\$ 54.80	\$ 54.80
76	1-1/4" / 1/2" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.650	\$ 40.30	\$ 15.60	\$ 55.90	\$ 55.90
77	1-1/4" / 3/4" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.650	\$ 40.30	\$ 16.70	\$ 57.00	\$ 57.00
78	1-1/2" / 1/2" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.780	\$ 48.36	\$ 17.80	\$ 66.16	\$ 66.16
79	1-1/2" / 3/4" Dia Hot Water Return Pipe Tee	EA	3	0%	3	0.780	\$ 48.36	\$ 18.50	\$ 66.86	\$ 200.58
80	2" / 1/2" Dia Hot Water Return Pipe Tee	EA	11	0%	11	0.980	\$ 60.76	\$ 24.00	\$ 84.76	\$ 932.36
81	2" / 3/4" Dia Hot Water Return Pipe Tee	EA	6	0%	6	0.980	\$ 60.76	\$ 27.00	\$ 87.76	\$ 526.56
82	2" / 1" Dia Hot Water Return Pipe Tee	EA	3	0%	3	1.200	\$ 74.40	\$ 32.00	\$ 106.40	\$ 319.20
	Reducer									
83	3/4" / 1/2" Dia Hot Water Return Pipe Reducer	EA	2	0%	2	0.600	\$ 37.20	\$ 13.10	\$ 50.30	\$ 100.60
84	1" / 3/4" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.650	\$ 40.30	\$ 14.80	\$ 55.10	\$ 55.10
85	1-1/4" / 1" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.650	\$ 40.30	\$ 16.20	\$ 56.50	\$ 56.50
86	1-1/2" / 1-1/4" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.780	\$ 48.36	\$ 17.80	\$ 66.16	\$ 66.16
87	2" / 1-1/2" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	1.200	\$ 74.40	\$ 34.20	\$ 108.60	\$ 108.60
	Refrigerant Pipe									
	Type "L" Hard Drawn Copper Tube ASTM B88, Cleaned And Capped In Accordance With ASTM B280, And Marked "ACR", With ANSI B16.22 Wrought Copper Or Forged Brass Solder Type Fittings.									
88	1/4" Dia Refrigeration Liquid Pipe	LF	28	10%	31	0.038	\$ 2.36	\$ 2.20	\$ 4.56	\$ 140.32
89	1/2" Dia Refrigeration Suction Pipe	LF	29	10%	32	0.042	\$ 2.60	\$ 2.59	\$ 5.19	\$ 165.69
	Insulation									
	1/2" Thick, Elastomeric Pipe Insulation, Flexible Closed Cell, 5.5 Lbs. Density									
90	1/4" Dia Refrigeration Liquid Pipe	LF	28	10%	31	0.033	\$ 2.05	\$ 2.50	\$ 4.55	\$ 140.02
91	1/2" Dia Refrigeration Suction Pipe	LF	29	10%	32	0.039	\$ 2.42	\$ 2.80	\$ 5.22	\$ 166.45
	Refrigerant Pipe Fittings									
	Elbow									
92	1/4" Dia Refrigeration Liquid Pipe 90 Deg Elbow	EA	7	0%	7	0.150	\$ 9.30	\$ 1.04	\$ 10.34	\$ 72.38
93	1/2" Dia Refrigeration Suction Pipe 90 Deg Elbow	EA	7	0%	7	0.200	\$ 12.40	\$ 1.75	\$ 14.15	\$ 99.05
	Condensate Drain Pipe									
	Type "L" Hard Temper Copper Tubing ASTM B88, With ASTM B145/ANSI B16.23 Cast Red Bronze Or ASTM B75/ANSI B16.29 Wrought Solder Type Drainage Fittings.									
94	3/4" Dia Condensate Drain Pipe	LF	40	10%	44	0.056	\$ 3.47	\$ 4.02	\$ 7.49	\$ 332.70
	Insulation									
	1/2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
95	3/4" Dia Condensate Drain Pipe	LF	40	10%	44	0.045	\$ 2.79	\$ 3.20	\$ 5.99	\$ 266.00
	Condensate Drain Pipe Fittings									
	Elbow									
96	3/4" Dia Condensate Drain Pipe 90 Deg Elbow	EA	19	0%	19	0.260	\$ 16.12	\$ 2.01	\$ 18.13	\$ 344.47
	Gas Pipe Underground									
	Schedule 40 Black Steel Pipe ASTM A53, Type E Or S, Standard Weight ASTM A197/ANSI B16.3 Class 150 Black Malleable Iron Threaded Fittings Or ASTM A234 Grade WPB/ANSI B16.9 Standard Weight, Seamless, Carbon Steel Weld Fittings.									

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **HVAC**



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR COST	MAT. COST	UNIT COST	SUB COST
97	1-1/2" Dia Gas Pipe	LF	40	10%	44	0.240	\$ 14.88	\$ 4.80	\$ 19.68	\$ 858.13
	Gas Pipe Fittings									
	Elbow									
98	1-1/2" Dia Gas Pipe 90 Deg Elbow	EA	3	0%	3	0.450	\$ 27.90	\$ 4.50	\$ 32.40	\$ 97.20
	Gas Pipe									
	Schedule 40 Black Steel Pipe ASTM A53, Type E Or S, Standard Weight ASTM A197/ANSI B16.3 Class 150 Black Malleable Iron Threaded Fittings Or ASTM A234 Grade WPB/ANSI B16.9 Standard Weight, Seamless, Carbon Steel Weld Fittings.									
99	3/4" Dia Gas Pipe	LF	4	10%	4	0.098	\$ 6.08	\$ 2.95	\$ 9.03	\$ 38.03
100	1-1/4" Dia Gas Pipe	LF	3	10%	4	0.200	\$ 12.40	\$ 3.90	\$ 16.30	\$ 57.20
101	1-1/2" Dia Gas Pipe	LF	25	10%	27	0.240	\$ 14.88	\$ 4.80	\$ 19.68	\$ 533.19
	Gas Pipe Fittings									
	Elbow									
102	3/4" Dia Gas Pipe 90 Deg Elbow	EA	1	0%	1	0.300	\$ 18.60	\$ 3.20	\$ 21.80	\$ 21.80
103	1-1/4" Dia Gas Pipe 90 Deg Elbow	EA	1	0%	1	0.450	\$ 27.90	\$ 4.02	\$ 31.92	\$ 31.92
104	1-1/2" Dia Gas Pipe 90 Deg Elbow	EA	4	0%	4	0.450	\$ 27.90	\$ 4.50	\$ 32.40	\$ 129.60
	Tee									
105	1-1/2" Dia Gas Pipe Tee	EA	2	0%	2	0.560	\$ 34.72	\$ 14.50	\$ 49.22	\$ 98.44
106	1-1/2" / 1" Dia Gas Pipe Tee	EA	2	0%	2	0.850	\$ 52.70	\$ 22.00	\$ 74.70	\$ 149.40
	Reducer									
107	1-1/2" / 3/4" Dia Gas Pipe Reducer	EA	1	0%	1	0.780	\$ 48.36	\$ 19.80	\$ 68.16	\$ 68.16
108	1-1/2" / 1-1/4" Dia Gas Pipe Reducer	EA	1	0%	1	0.890	\$ 55.18	\$ 25.60	\$ 80.78	\$ 80.78
	Makeup Water Pipe									
	Type "L" Copper Pipe									
109	1/2" Dia Makeup Water Pipe	LF	50	10%	55	0.042	\$ 2.60	\$ 2.59	\$ 5.19	\$ 284.41
	Insulation									
	1/2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
110	1/2" Dia Makeup Water Pipe	LF	50	10%	55	0.039	\$ 2.42	\$ 2.80	\$ 5.22	\$ 285.73
	Makeup Water Pipe Fittings									
	Elbow									
111	1/2" Dia Makeup Water Pipe 90 Deg Elbow	EA	6	0%	6	0.200	\$ 12.40	\$ 1.75	\$ 14.15	\$ 84.90
	Steam Pipe									
	Type "L" Copper Pipe									
112	1-3/8" Dia Steam Pipe	LF	52	10%	57	0.098	\$ 6.08	\$ 9.08	\$ 15.16	\$ 859.75
	Insulation									
	2-1/2" Thick, Rigid Fiberglass Pipe Insulation, White Kraft Reinforced Foil Vapor Barrier All Service Jacket, Factory Applied, KNAUF INSULATION BOARD With Ecosse									
113	1-3/8" Dia Steam Pipe	LF	52	10%	57	0.060	\$ 3.72	\$ 3.79	\$ 7.51	\$ 426.02
	Steam Pipe Fittings									
	Elbow									
114	1-3/8" Dia Steam Pipe 90 Deg Elbow	EA	4	0%	4	0.294	\$ 18.23	\$ 5.86	\$ 24.09	\$ 96.35
	Boiler Intake Pipe									
	PVC Schedule 40 Pipe									
115	4" Dia Boiler Exhaust Pipe	LF	8	10%	9	0.177	\$ 10.97	\$ 13.20	\$ 24.17	\$ 212.73
116	5" Dia Boiler Intake Pipe	LF	10	10%	11	0.195	\$ 12.09	\$ 15.50	\$ 27.59	\$ 303.49
	Boiler Intake Pipe Fittings									
	Elbow									
117	5" Dia Boiler Intake Pipe 90 Deg Elbow	EA	3	0%	3	0.500	\$ 31.00	\$ 29.50	\$ 60.50	\$ 181.50
	Vent Pipe									
	PVC Schedule 40 Pipe									
118	1" Dia Vent Pipe	LF	8	10%	9	0.076	\$ 4.71	\$ 2.50	\$ 7.21	\$ 66.64
	Vent Pipe Fittings									
	Elbow									
119	1" Dia Vent Pipe 90 Deg Elbow	EA	5	0%	5	0.120	\$ 7.44	\$ 1.39	\$ 8.83	\$ 44.15
	Air Devices									
120	B: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
121	B: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
122	B: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
123	B: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
124	B: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	5	0%	5	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 618.97
125	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
126	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	6	0%	6	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 742.76
127	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	4	0%	4	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 732.96
128	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 183.24
129	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	2	0%	2	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 366.48
130	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 183.24
131	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	3	0%	3	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 549.72
132	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	2	0%	2	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 366.48
133	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	3	0%	3	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 706.80
134	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	2	0%	2	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 471.20
135	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	2	0%	2	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 471.20
136	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	2	0%	2	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 471.20
137	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	4	0%	4	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 942.40
138	C: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	2.100	\$ 130.20	\$ 200.00	\$ 330.20	\$ 330.20
139	D: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	1	0%	1	2.100	\$ 130.20	\$ 200.00	\$ 330.20	\$ 330.20
140	D: Supply Air Diffuser, Face Size 24x24, Pattern 4-Way, "Face Type	EA	2	0%	2	2.100	\$ 130.20	\$ 260.00	\$ 390.20	\$ 780.40
141	G: Exhaust Air Griller, Face Size 6x6, "Face Type" 35" Louvered, Mo	EA	5	0%	5	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 618.97
142	G: Exhaust Air Griller, Face Size 6x6, "Face Type" 35" Louvered, Mo	EA	3	0%	3	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 371.38
143	H: Exhaust Air Griller, Face Size 8x8, "Face Type" 35" Louvered, Mo	EA	1	0%	1	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 183.24
144	M: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	11	0%	11	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 1,361.73

DETAILED BREAKDOWN OF ITEMS

Prepared for: 1 NEDBOProject ID:

Scope: HVAC



Date: _____

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR COST	MAT. COST	UNIT COST	SUB COST
145	M: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
146	N: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque, I	EA	2	0%	2	1.020	\$ 63.24	\$ 120.00	\$ 183.24	\$ 366.48
147	N: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	3	0%	3	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 706.80
148	N: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 235.60
149	N: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 235.60
150	N: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque, I	EA	2	0%	2	1.300	\$ 80.60	\$ 155.00	\$ 235.60	\$ 471.20
151	N: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	2.100	\$ 130.20	\$ 200.00	\$ 330.20	\$ 330.20
152	O: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1.5	0%	1.5	2.100	\$ 130.20	\$ 200.00	\$ 330.20	\$ 4,953.00
153	O: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	2.100	\$ 130.20	\$ 260.00	\$ 390.20	\$ 390.20
154	O: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	2.100	\$ 130.20	\$ 260.00	\$ 390.20	\$ 390.20
155	O: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	2.100	\$ 130.20	\$ 260.00	\$ 390.20	\$ 390.20
156	O: Return Air Griller, Face Size 24x24, "Face Type" Square Plaque,	EA	1	0%	1	2.100	\$ 130.20	\$ 260.00	\$ 390.20	\$ 390.20
157	P: Return Air Griller, Face Size 22x22, "Face Type" 35" Louvered, M	EA	1	0%	1	2.450	\$ 151.90	\$ 350.00	\$ 501.90	\$ 501.90
158	Q: Supply Air Diffuser, "Face Type" 3" Single Slot Diffuser, Mounting	EA	3	0%	3	2.450	\$ 151.90	\$ 295.00	\$ 446.90	\$ 1,340.70
159	R: Supply Air Diffuser, "Face Type" 3" Single Slot Diffuser, Mounting	EA	2	0%	2	2.900	\$ 179.80	\$ 380.00	\$ 559.80	\$ 1,119.60
160	R: Supply Air Diffuser, "Face Type" 3" Single Slot Diffuser, Mounting	EA	1	0%	1	2.900	\$ 179.80	\$ 450.00	\$ 629.80	\$ 629.80
161	T: Exhaust Air Griller, Face Size 6x6, "Face Type" 35" Louvered, Mo	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
162	T: Exhaust Air Griller, Face Size 6x6, "Face Type" 35" Louvered, Mo	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
163	T: Exhaust Air Griller, Face Size 6x6, "Face Type" 35" Louvered, Mo	EA	2	0%	2	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 247.59
164	W: Exhaust Air Griller, Face Size 18x10, "Face Type" 35" Louvered,	EA	1	0%	1	2.900	\$ 179.80	\$ 400.00	\$ 579.80	\$ 579.80
165	X: Supply Air Diffuser, Face Size 6x6, "Face Type" 3/4" Double Defl	EA	1	0%	1	0.787	\$ 48.79	\$ 75.00	\$ 123.79	\$ 123.79
	Roof Top Unit									
166	RTU-001, Roof Top Unit, JCI - AD18E1DH4F, 6,300 CFM, 550 O.A. C	EA	1	0%	1	4.250	\$ 263.50	\$ 4,598.00	\$ 4,861.50	\$ 4,861.50
167	RTU-002, Roof Top Unit, JCI - AD18E1DH4F, 6,100 CFM, 950 O.A. C	EA	1	0%	1	4.000	\$ 248.00	\$ 4,300.00	\$ 4,548.00	\$ 4,548.00
	Unit Heater									
168	UH-001, Unit Heater, ZEHNDER RITTLING RH-47, "Type" Horizontal A	EA	1	0%	1	3.200	\$ 198.40	\$ 1,230.00	\$ 1,428.40	\$ 1,428.40
169	UH-002, Unit Heater, ZEHNDER RITTLING RH-47, "Type" Horizontal A	EA	1	0%	1	3.200	\$ 198.40	\$ 1,090.00	\$ 1,288.40	\$ 1,288.40
	Fan Schedule									
170	F-001, Fan, GREENHECK G-095-VG, "Service" Exhaust, "Type" PRV, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C	EA	1	0%	1	1.800	\$ 111.60	\$ 540.00	\$ 651.60	\$ 651.60
171	F-002, Fan, GREENHECK G-099-VG, "Service" Exhaust, "Type" PRV, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C	EA	1	0%	1	2.900	\$ 179.80	\$ 1,240.00	\$ 1,419.80	\$ 1,419.80
172	F-003, Fan, GREENHECK G-095-VG, "Service" Heat Removal, "Type" PRV, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C	EA	1	0%	1	1.800	\$ 111.60	\$ 540.00	\$ 651.60	\$ 651.60
173	F-004, Fan, BROAN XB110, "Service" Heat Removal, "Type" PRV, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C, 1100 CFM, 550 O.A. C	EA	1	0%	1	1.800	\$ 111.60	\$ 417.00	\$ 528.60	\$ 528.60
	Variable Air Volume Terminal									
174	VAV-102, Variable Air Volume, Airflow Max 1320 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	3.000	\$ 186.00	\$ 1,170.00	\$ 1,356.00	\$ 1,356.00
175	VAV-103(1), Variable Air Volume, Airflow Max 2350 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 1,600.00	\$ 1,693.00	\$ 1,693.00
176	VAV-104, Variable Air Volume, Airflow Max 170 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 560.00	\$ 653.00	\$ 653.00
177	VAV-107(1), Variable Air Volume, Airflow Max 1780 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	2.200	\$ 136.40	\$ 1,500.00	\$ 1,636.40	\$ 1,636.40
178	VAV-107(2), Variable Air Volume, Airflow Max 950 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	2.200	\$ 136.40	\$ 850.00	\$ 986.40	\$ 986.40
179	VAV-107C, Variable Air Volume, Airflow Max 320 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 633.00	\$ 726.00	\$ 726.00
180	VAV-109, Variable Air Volume, Airflow Max 320 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 634.00	\$ 727.00	\$ 727.00
181	VAV-110, Variable Air Volume, Airflow Max 310 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 635.00	\$ 728.00	\$ 728.00
182	VAV-113, Variable Air Volume, Airflow Max 470 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.750	\$ 108.50	\$ 706.00	\$ 814.50	\$ 814.50
183	VAV-114, Variable Air Volume, Airflow Max 460 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.750	\$ 108.50	\$ 706.00	\$ 814.50	\$ 814.50
184	VAV-116, Variable Air Volume, Airflow Max 510 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	2.750	\$ 170.50	\$ 707.00	\$ 877.50	\$ 877.50
185	VAV-117, Variable Air Volume, Airflow Max 250 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 560.00	\$ 653.00	\$ 653.00
186	VAV-119, Variable Air Volume, Airflow Max 420 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.750	\$ 108.50	\$ 706.00	\$ 814.50	\$ 814.50
187	VAV-122, Variable Air Volume, Airflow Max 160 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 560.00	\$ 653.00	\$ 653.00
188	VAV-124, Variable Air Volume, Airflow Max 460 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.750	\$ 108.50	\$ 706.00	\$ 814.50	\$ 814.50
189	VAV-127, Variable Air Volume, Airflow Max 350 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 634.00	\$ 727.00	\$ 727.00
190	VAV-134, Variable Air Volume, Airflow Max 430 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.750	\$ 108.50	\$ 706.00	\$ 814.50	\$ 814.50
191	VAV-137, Variable Air Volume, Airflow Max 420 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	2.750	\$ 170.50	\$ 707.00	\$ 877.50	\$ 877.50
192	VAV-140, Variable Air Volume, Airflow Max 140 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 560.00	\$ 653.00	\$ 653.00
193	VAV-141A, Variable Air Volume, Airflow Max 380 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 633.00	\$ 726.00	\$ 726.00
194	VAV-142, Variable Air Volume, Airflow Max 380 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 633.00	\$ 726.00	\$ 726.00
195	VAV-144, Variable Air Volume, Airflow Max 780 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	2.200	\$ 136.40	\$ 850.00	\$ 986.40	\$ 986.40
196	VAV-145, Variable Air Volume, Airflow Max 330 CFM, "Hot Water" Terminal, "Type" 1	EA	1	0%	1	1.500	\$ 93.00	\$ 633.00	\$ 726.00	\$ 726.00
	Cabinet Unit Heater									
197	CH-001, Cabinet Heater, TRANE FORCE-FLO 600 MODEL M, "Type" 1	EA	1	0%	1	2.300	\$ 142.60	\$ 750.00	\$ 892.60	\$ 892.60
198	CH-002, Cabinet Heater, TRANE FORCE-FLO 600 MODEL M, "Type" 1	EA	1	0%	1	2.300	\$ 142.60	\$ 750.00	\$ 892.60	\$ 892.60
	Split System						\$ -			
199	Ductless Minisplit Indoor Unit	EA	1	0%	1	2.500	\$ 155.00	\$ 1,359.00	\$ 1,514.00	\$ 1,514.00
200	Ductless Minisplit Condenser Unit	EA	1	0%	1	2.500	\$ 155.00	\$ 1,389.00	\$ 1,544.00	\$ 1,544.00
	Boiler									
201	B-001, Boiler, 21" W x 37" D x 48" H, HARSCO INDUSTRIAL PATTERSON	EA	1	0%	1	10.500	\$ 651.00	\$ 71,000.00	\$ 71,651.00	\$ 71,651.00
	Expansion Tank									
202	ET-001, Expansion Tank, B&G B-35LA, Design Code ASME, "Type" B1	EA	1	0%	1	3.000	\$ 186.00	\$ 1,852.00	\$ 2,038.00	\$ 2,038.00
	Convactor									
203	C-001, ZEHNDER RITTLING PL-26-36-04, "Type" Fully Recessed, Cap	EA	1	0%	1	3.500	\$ 217.00	\$ 934.00	\$ 1,151.00	\$ 1,151.00
	Air Separator									
204	AS-001, Air Separator, SPIROTERM VDN-200, 38.7 GPM, Minimum	EA	1	0%	1	2.500	\$ 155.00	\$ 587.65	\$ 742.65	\$ 742.65
	Pumps									
205	P-001, Pump, B&G e-90, "Type" Inline, "Service" B-001 Circ, 37 GPM	EA	1	0%	1	3.300	\$ 204.60	\$ 1,054.00	\$ 1,258.60	\$ 1,258.60
206	P-002, Pump, B&G e-80, "Type" Inline, "Service" Hot Water, 38.7 G	EA	1	0%	1	3.500	\$ 217.00	\$ 1,250.00	\$ 1,467.00	\$ 1,467.00
207	P-003, Pump, B&G e-80, "Type" Inline, "Service" Hot Water, 38.7 G	EA	1	0%	1	3.500	\$ 217.00	\$ 1,250.00	\$ 1,467.00	\$ 1,467.00
	Humidifier									

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope:

HVAC



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR COST	MAT. COST	UNIT COST	SUB COST
208	H-001, Humidifier, NEPTRONIC SKE4-N10, "Type" Electric Resistive, Capacity 30 LB/HR, 6300 CFM, Lat/Lahr 55, Power 10 KW, 480/3 Voltage. Ulti-Steam Distribution Manifold, Single Tube Not Acceptable. 1. See Detail K14/M501 For Humidifier Installation. 2. Drain With Waste Water Cooling. 3. Duct Mounted Humidistat. 4. If Al Ternate manufacturer Is Provided, Minimum Capacity For Both System Shall Be 25#HR.	EA	2	0%	2	9.000	\$ 558.00	\$ 28,000.00	\$ 28,558.00	\$ 57,116.00
209	H-002, Humidifier, NEPTRONIC SKE4-N10, "Type" Electric Resistive, Capacity 30 LB/HR, 6100 CFM, Lat/Lahr 55, Power 10 KW, 480/3 Voltage. Ulti-Steam Distribution Manifold, Single Tube Not Acceptable.	EA	2	0%	2	8.000	\$ 496.00	\$ 26,000.00	\$ 26,496.00	\$ 52,992.00
	Wall Heater									
210	Electric Wall Heater	EA	1	0%	1	2.300	\$ 142.60	\$ 457.00	\$ 599.60	\$ 599.60
	Chemical Feeder									
211	Chemical Feeder, 2 Gallon, Fill In Top With Removable Cap	EA	1	0%	1	1.700	\$ 105.40	\$ 356.00	\$ 461.40	\$ 461.40
	Finned Tube									
212	FTR-001, Finned Tube, Capacity 650 BTUH, Ent. Water Temp. 150 °F, LVG. Water Temp. 130 °F, Enclosure Depth 6", Enclosure Height 14", Mounting Height 4", 0.7 GPM. Provide (2) Wall Trim. 11'-0" Element, 15'-0" Enclosure	EA	1	0%	1	3.850	\$ 238.70	\$ 1,285.00	\$ 1,523.70	\$ 1,523.70
213	FTR-002, Finned Tube, Capacity 650 BTUH, Ent. Water Temp. 150 °F, LVG. Water Temp. 130 °F, Enclosure Depth 6", Enclosure Height 14", Mounting Height 4", 2.8 (0.7 Each) GPM. Provide (1) Wall Trim, (1) End Cap, (1) Inside Corner Trim. 11'-0" Element, 14'-9" Enclosure	EA	1	0%	1	3.850	\$ 238.70	\$ 1,285.00	\$ 1,523.70	\$ 1,523.70
214	FTR-002, Finned Tube, Capacity 650 BTUH, Ent. Water Temp. 150 °F, LVG. Water Temp. 130 °F, Enclosure Depth 6", Enclosure Height 14", Mounting Height 4", 2.8 (0.7 Each) GPM. Provide (1) Wall Trim, (1) End Cap, (1) Inside Corner Trim. (3)11'-0" Element, 46'-0" Enclosure	EA	1	0%	1	3.850	\$ 238.70	\$ 1,285.00	\$ 1,523.70	\$ 1,523.70
215	FTR-003, Finned Tube, Capacity 650 BTUH, Ent. Water Temp. 150 °F, LVG. Water Temp. 130 °F, Enclosure Depth 6", Enclosure Height 14", Mounting Height 4", 2.8 (0.7 Each) GPM. Provide (2) Wall Trim, (1) Inside Corner Trim. 11'-0" Element, 15'-0" Enclosure	EA	1	0%	1	3.850	\$ 238.70	\$ 1,285.00	\$ 1,523.70	\$ 1,523.70
216	FTR-003, Finned Tube, Capacity 650 BTUH, Ent. Water Temp. 150 °F, LVG. Water Temp. 130 °F, Enclosure Depth 6", Enclosure Height 14", Mounting Height 4", 2.8 (0.7 Each) GPM. Provide (2) Wall Trim, (1) Inside Corner Trim. (3)11'-0" Element, 46'-0" Enclosure	EA	1	0%	1	3.850	\$ 238.70	\$ 1,285.00	\$ 1,523.70	\$ 1,523.70
217	FTR-004, Finned Tube, Capacity 650 BTUH, Ent. Water Temp. 150 °F, LVG. Water Temp. 130 °F, Enclosure Depth 6", Enclosure Height 14", Mounting Height 4", 0.4 GPM. Provide (1) Wall Trim, (1) End Cap. 6'-0" Element, 8'-0" Enclosure	EA	1	0%	1	3.850	\$ 238.70	\$ 1,165.00	\$ 1,403.70	\$ 1,403.70
	Dampers									
218	6" Dia Volume Damper	EA	20	0%	20	0.600	\$ 37.20	\$ 120.00	\$ 157.20	\$ 3,144.00
219	8" Dia Volume Damper	EA	37	0%	37	0.600	\$ 37.20	\$ 135.00	\$ 172.20	\$ 6,371.40
220	10" Dia Volume Damper	EA	3	0%	3	0.760	\$ 47.12	\$ 150.00	\$ 197.12	\$ 591.36
221	10"x10" Volume Damper	EA	5	0%	5	0.850	\$ 52.70	\$ 165.00	\$ 217.70	\$ 1,088.50
222	12"x8" Volume Damper	EA	3	0%	3	0.850	\$ 52.70	\$ 178.00	\$ 230.70	\$ 692.10
223	28"x16" Volume Damper	EA	2	0%	2	0.900	\$ 55.80	\$ 180.00	\$ 235.80	\$ 471.60
224	36"x20" Volume Damper	EA	1	0%	1	0.950	\$ 58.90	\$ 240.00	\$ 298.90	\$ 298.90
225	32x16 - 24V Control Damper	EA	1	0%	1	0.950	\$ 58.90	\$ 200.00	\$ 258.90	\$ 258.90
226	30"x20" Backdraft Damper	EA	2	0%	2	0.950	\$ 58.90	\$ 195.00	\$ 253.90	\$ 507.80
227	36"x18" Backdraft Damper	EA	2	0%	2	0.950	\$ 58.90	\$ 240.00	\$ 298.90	\$ 597.80
228	36"x20" Backdraft Damper	EA	2	0%	2	0.950	\$ 58.90	\$ 240.00	\$ 298.90	\$ 597.80
	Misc.									
229	1 PSI Outlet Pressure Gas Meter By Gas Utility	EA	1	0%	1	1.800	\$ 111.60	\$ 550.00	\$ 661.60	\$ 661.60
230	1" Bug Screen	EA	2	0%	2	0.500	\$ 31.00	\$ 181.00	\$ 212.00	\$ 424.00
231	1/2" Dia 2-Way Control Valve	EA	5	0%	5	0.450	\$ 27.90	\$ 54.00	\$ 81.90	\$ 409.50
232	1/2" Dia Ball Valve	EA	12	0%	12	0.240	\$ 14.88	\$ 15.40	\$ 30.28	\$ 363.36
233	1-1/4" Dia Gas Shut-Off Valve	EA	1	0%	1	0.450	\$ 27.90	\$ 56.00	\$ 83.90	\$ 83.90
234	1-1/4" Dia Pipe Cap	EA	1	0%	1	0.050	\$ 3.10	\$ 3.20	\$ 6.30	\$ 6.30
235	16"x16" Transfer Air Opening	EA	1	0%	1	0.200	\$ 12.40	\$ 56.00	\$ 68.40	\$ 68.40
236	2" Dia Isolation Valve	EA	1	0%	1	0.400	\$ 24.80	\$ 32.00	\$ 56.80	\$ 56.80
237	2" Dia Strainer	EA	1	0%	1	0.180	\$ 11.16	\$ 13.50	\$ 24.66	\$ 24.66
238	24"x12" Transfer Air Opening	EA	9	0%	9	0.450	\$ 27.90	\$ 86.00	\$ 113.90	\$ 1,025.10
239	24"x30" Transfer Air Opening	EA	1	0%	1	0.500	\$ 31.00	\$ 95.00	\$ 126.00	\$ 126.00
240	3/4" Dia 2-Way Control Valve	EA	3	0%	3	0.450	\$ 27.90	\$ 65.00	\$ 92.90	\$ 278.70
241	3/4" Dia Ball Valve	EA	11	0%	11	0.300	\$ 18.60	\$ 18.80	\$ 37.40	\$ 411.40
242	3/4" Dia Hose Bibb	EA	2	0%	2	0.340	\$ 21.08	\$ 45.00	\$ 66.08	\$ 132.16
243	3/4" Dia Pipe Cap	EA	3	0%	3	0.033	\$ 2.05	\$ 1.20	\$ 3.25	\$ 9.74
244	32Wx16Hx24L, Louver	EA	1	0%	1	1.500	\$ 93.00	\$ 413.00	\$ 506.00	\$ 506.00
245	5" Dia VTR, Vent Through Roof	EA	2	0%	2	0.460	\$ 28.52	\$ 120.00	\$ 148.52	\$ 297.04
246	Nipple Pipe Portal	EA	5	0%	5	0.300	\$ 18.60	\$ 19.80	\$ 38.40	\$ 192.00
247	Smoke Detector	EA	2	0%	2	0.400	\$ 24.80	\$ 72.00	\$ 96.80	\$ 193.60
248	Temperature Control Panel	EA	2	0%	2	0.350	\$ 21.70	\$ 75.00	\$ 96.70	\$ 193.40
249	Thermostat	EA	26	0%	26	0.375	\$ 23.25	\$ 60.00	\$ 83.25	\$ 2,164.50
	Boiler Detail									
250	3/4" Dia Ball Valve	EA	5	0%	5	0.300	\$ 18.60	\$ 18.80	\$ 37.40	\$ 187.00
251	2" Dia Ball Valve	EA	11	0%	11	0.420	\$ 26.04	\$ 43.00	\$ 69.04	\$ 759.44
252	2" Dia Tripel Duty Valve	EA	2	0%	2	0.480	\$ 29.76	\$ 1,250.00	\$ 1,279.76	\$ 2,559.52

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **HVAC**



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	LABOR COST	MAT. COST	UNIT COST	SUB COST
253	2" Dia Strainer	EA	3	0%	3	0.180	\$ 11.16	\$ 13.50	\$ 24.66	\$ 73.98
254	Thermometer	EA	4	0%	4	0.270	\$ 16.74	\$ 55.00	\$ 71.74	\$ 286.96
255	2" Dia Isolation Valve	EA	1	0%	1	0.400	\$ 24.80	\$ 32.00	\$ 56.80	\$ 56.80
256	1" Dia Ball Valve (Size assumed)	EA	5	0%	5	0.360	\$ 22.32	\$ 26.80	\$ 49.12	\$ 245.60
257	1/2" Drain Valve (Size assumed)	EA	6	0%	6	0.230	\$ 14.26	\$ 15.00	\$ 29.26	\$ 175.56
258	1/2" Dia Union	EA	2	0%	2	0.270	\$ 16.74	\$ 18.60	\$ 35.34	\$ 70.68
259	3/4" Dia Union	EA	4	0%	4	0.320	\$ 19.84	\$ 20.60	\$ 40.44	\$ 161.76
260	Pressure Gauge	EA	3	0%	3	0.350	\$ 21.70	\$ 32.00	\$ 53.70	\$ 161.10
261	3/4" Dia Gas Pressure Regulator	EA	1	0%	1	0.490	\$ 30.38	\$ 75.00	\$ 105.38	\$ 105.38
262	3/4" Dia Gas Shut-Off Valve	EA	1	0%	1	0.300	\$ 18.60	\$ 19.90	\$ 38.50	\$ 38.50
263	3/4" Dia Dirt Leg And Union	EA	1	0%	1	0.560	\$ 34.72	\$ 73.50	\$ 108.22	\$ 108.22
264	1-1/4" Dia gas Valve	EA	1	0%	1	0.360	\$ 22.32	\$ 26.80	\$ 49.12	\$ 49.12
265	1-1/4" Dia gas Union	EA	1	0%	1	0.390	\$ 24.18	\$ 24.10	\$ 48.28	\$ 48.28
266	1-1/4" Dia gas Pressure Regulator, 400 CFH, 1 PSI	EA	1	0%	1	0.490	\$ 30.38	\$ 102.00	\$ 132.38	\$ 132.38
267	1-1/4" Dia Dirt Leg	EA	1	0%	1	0.450	\$ 27.90	\$ 68.00	\$ 95.90	\$ 95.90
268	3/4" Dia Union	EA	1	0%	1	0.320	\$ 19.84	\$ 20.60	\$ 40.44	\$ 40.44
269	3/4" Dia Check Valve	EA	1	0%	1	0.300	\$ 18.60	\$ 16.80	\$ 35.40	\$ 35.40
Convector Detail										
270	1/2" Dia Union	EA	1	0%	1	0.270	\$ 16.74	\$ 18.60	\$ 35.34	\$ 35.34
271	1/2" Dia Drain Valve	EA	1	0%	1	0.230	\$ 14.26	\$ 15.00	\$ 29.26	\$ 29.26
272	1/2" Dia Vent Cap	EA	1	0%	1	0.260	\$ 16.12	\$ 14.30	\$ 30.42	\$ 30.42
VAV Box Detail										
273	1/2" Dia Ball Valve	EA	28	0%	28	0.240	\$ 14.88	\$ 15.40	\$ 30.28	\$ 847.84
274	3/4" Dia Ball Valve	EA	10	0%	10	0.300	\$ 18.60	\$ 18.80	\$ 37.40	\$ 374.00
275	1" Dia Ball Valve	EA	4	0%	4	0.360	\$ 22.32	\$ 26.80	\$ 49.12	\$ 196.48
276	1/2" Dia 2-Way T.C. Valve	EA	14	0%	14	0.240	\$ 14.88	\$ 16.20	\$ 31.08	\$ 435.12
277	3/4" Dia 2-Way T.C. Valve	EA	5	0%	5	0.300	\$ 18.60	\$ 19.40	\$ 38.00	\$ 190.00
278	1" Dia 2-Way T.C. Valve	EA	2	0%	2	0.360	\$ 22.32	\$ 25.60	\$ 47.92	\$ 95.84
279	1/2" Dia Union	EA	14	0%	14	0.270	\$ 16.74	\$ 18.60	\$ 35.34	\$ 494.76
280	3/4" Dia Union	EA	5	0%	5	0.320	\$ 19.84	\$ 20.60	\$ 40.44	\$ 202.20
281	1" Dia Union	EA	2	0%	2	0.390	\$ 24.18	\$ 24.10	\$ 48.28	\$ 96.56
282	1/2" Dia Dirt Leg	EA	14	0%	14	0.320	\$ 19.84	\$ 45.00	\$ 64.84	\$ 907.76
283	3/4" Dia Dirt Leg	EA	5	0%	5	0.370	\$ 22.94	\$ 53.00	\$ 75.94	\$ 379.70
284	1" Dia Dirt Leg	EA	2	0%	2	0.450	\$ 27.90	\$ 65.00	\$ 92.90	\$ 185.80
285	1/2" Dia Drain W/ Cap	EA	14	0%	14	0.230	\$ 14.26	\$ 12.00	\$ 26.26	\$ 367.64
286	3/4" Dia Drain W/ Cap	EA	5	0%	5	0.230	\$ 14.26	\$ 15.60	\$ 29.86	\$ 149.30
287	1" Dia Drain W/ Cap	EA	2	0%	2	0.300	\$ 18.60	\$ 18.90	\$ 37.50	\$ 75.00
288	1/2" Dia Manual Key Vent W/ 1/4" Copper Tubing	EA	14	0%	14	0.350	\$ 21.70	\$ 17.70	\$ 39.40	\$ 551.60
289	3/4" Dia Manual Key Vent W/ 1/4" Copper Tubing	EA	5	0%	5	0.350	\$ 21.70	\$ 20.50	\$ 42.20	\$ 211.00
290	1" Dia Manual Key Vent W/ 1/4" Copper Tubing	EA	2	0%	2	0.400	\$ 24.80	\$ 24.60	\$ 49.40	\$ 98.80
Duct Weight										
291	Galvanized Sheet Metal Duct	LB	6486	10%	7135	0.041	\$ 2.54	\$ 2.50	\$ 5.04	\$ 35,972.65
Duct Installation										
292	1-1/2" Thick Flexible Fiberglass Duct Insulation, Foil Scrim Kraft Vapor	SQFT	5045	10%	5550	0.035	\$ 2.17	\$ 3.85	\$ 6.02	\$ 33,407.99
Duct Installation										
293	2" Thick Rigid Fiberglass Duct Insulation, Foil Scrim Kraft Vapor Barrie	SQFT	475	10%	523	0.056	\$ 3.47	\$ 4.50	\$ 7.97	\$ 4,165.37
Pipe Support										
294	1/4" Dia Adjustable Clevis Hanger	EA	4	0%	4	0.036	\$ 2.23	\$ 2.50	\$ 4.73	\$ 18.93
295	1/2" Dia Adjustable Clevis Hanger	EA	91	0%	91	0.036	\$ 2.23	\$ 2.80	\$ 5.03	\$ 457.91
296	3/4" Dia Adjustable Clevis Hanger	EA	122	0%	122	0.036	\$ 2.23	\$ 3.20	\$ 5.43	\$ 662.70
297	1" Dia Adjustable Clevis Hanger	EA	10	0%	10	0.040	\$ 2.48	\$ 3.50	\$ 5.98	\$ 59.80
298	1-3/8" Dia Adjustable Clevis Hanger	EA	8	0%	8	0.040	\$ 2.48	\$ 4.10	\$ 6.58	\$ 52.64
299	1-1/4" Dia Adjustable Clevis Hanger	EA	11	0%	11	0.040	\$ 2.48	\$ 4.24	\$ 6.72	\$ 73.92
300	1-1/2" Dia Adjustable Clevis Hanger	EA	18	0%	18	0.052	\$ 3.22	\$ 4.50	\$ 7.72	\$ 139.03
301	2" Dia Adjustable Clevis Hanger	EA	36	0%	36	0.052	\$ 3.22	\$ 5.60	\$ 8.82	\$ 317.66
302	5" Dia Adjustable Clevis Hanger	EA	1	0%	1	0.063	\$ 3.91	\$ 8.30	\$ 12.21	\$ 12.21
303	3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	264	0%	264	0.050	\$ 3.10	\$ 5.50	\$ 8.60	\$ 2,270.40
304	5/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	37	0%	37	0.050	\$ 3.10	\$ 6.80	\$ 9.90	\$ 366.30
Duct Support										
305	3/8" Threaded Rod	EA	324	0%	324	0.050	\$ 3.10	\$ 5.50	\$ 8.60	\$ 2,786.40
306	1" x 22 Ga. Strap	EA	162	0%	162	0.068	\$ 4.22	\$ 6.75	\$ 10.97	\$ 1,776.49
									SUBTOTAL	\$ 450,587

				PROJECTED COST	
OVERHEAD AND PROFIT				0.15	0.15
INSURANCE				0.03	0.03
CONTINGENCY				0.05	0.05
TAX				0.05	0.05
SUGGESTED BID					\$614,329

Note:

1. Please verify the equipment's and their prices with owner.
2. For tree plantation average prices are use. Please verify according to tree type.
3. Online sources are used for pricing.
4. Prices can vary depending upon field conditions.

BREAKDOWN OF ITEMS

Prepared for:

Project ID:

Scope: HVAC



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
HVAC					
Sheet Metal Duct					
Galvanized Sheet Metal Duct					
1	6" Dia Supply Air Duct	LF	90	10%	99
2	6"x6" Supply Air Duct	LF	3	10%	4
3	6"x10" Supply Air Duct	LF	12	10%	13
4	8" Dia Supply Air Duct	LF	336	10%	370
5	8"x10" Supply Air Duct	LF	4	10%	5
6	10" Dia Supply Air Duct	LF	137	10%	150
7	10"x10" Supply Air Duct	LF	120	10%	132
8	10"x12" Supply Air Duct	LF	9	10%	10
9	12" Dia Supply Air Duct	LF	35	10%	38
10	12"x8" Supply Air Duct	LF	30	10%	33
11	12"x12" Supply Air Duct	LF	13	10%	14
12	14"x12" Supply Air Duct	LF	75	10%	83
13	14"x14" Supply Air Duct	LF	6	10%	7
14	14"x16" Supply Air Duct	LF	22	10%	24
15	16"x12" Supply Air Duct	LF	10	10%	11
16	18"x12" Supply Air Duct	LF	5	10%	5
17	18"x14" Supply Air Duct	LF	11	10%	12
18	18"x16" Supply Air Duct	LF	43	10%	47
19	18"x18" Supply Air Duct	LF	9	10%	10
20	20"x12" Supply Air Duct	LF	20	10%	22
21	20"x14" Supply Air Duct	LF	6	10%	7
22	20"x16" Supply Air Duct	LF	7	10%	7
23	20"x18" Supply Air Duct	LF	17	10%	19
24	22"x14" Supply Air Duct	LF	22	10%	24
25	24"x16" Supply Air Duct	LF	4	10%	4
26	26"x20" Supply Air Duct	LF	6	10%	6
27	30"x20" Supply Air Duct	LF	53	10%	58
28	36"x18" Supply Air Duct	LF	18	10%	20
29	62"x26" Supply Air Duct	LF	7	10%	7
30	8" Dia Return Air Duct	LF	17	10%	19
31	12" Dia Return Air Duct	LF	14	10%	15
32	14" Dia Return Air Duct	LF	4	10%	4
33	16" Dia Return Air Duct	LF	2	10%	2
34	16"x24" Return Air Duct	LF	11	10%	12
35	22"x12" Return Air Duct	LF	10	10%	11
36	26"x24" Return Air Duct	LF	10	10%	11
37	28"x16" Return Air Duct	LF	41	10%	45
38	36"x20" Return Air Duct	LF	40	10%	44
39	68"x19" Return Air Duct	LF	7	10%	7
40	6" Dia Exhaust Air Duct	LF	156	10%	172

BREAKDOWN OF ITEMS

Prepared for:

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Scope: HVAC



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
41	8" Dia Exhaust Air Duct	LF	94	10%	104
42	8"x4" Exhaust Air Duct	LF	2	10%	3
43	10" Dia Exhaust Air Duct	LF	52	10%	57
44	10"x10" Exhaust Air Duct	LF	31	10%	34
45	12"x12" Exhaust Air Duct	LF	5	10%	6
46	18"x10" Exhaust Air Duct	LF	2	10%	2
	Duct Fittings				
	Elbow				
47	6" Dia Supply Air Duct 90 Deg Elbow	EA	3	0%	3
48	8" Dia Supply Air Duct 90 Deg Elbow	EA	16	0%	16
49	10" Dia Supply Air Duct 90 Deg Elbow	EA	5	0%	5
50	10"x10" Supply Air Duct 90 Deg Elbow	EA	10	0%	10
51	12"x8" Supply Air Duct 90 Deg Elbow	EA	5	0%	5
52	14"x12" Supply Air Duct 90 Deg Elbow	EA	5	0%	5
53	18"x16" Supply Air Duct 90 Deg Elbow	EA	2	0%	2
54	18"x18" Supply Air Duct 90 Deg Elbow	EA	1	0%	1
55	20"x12" Supply Air Duct 90 Deg Elbow	EA	2	0%	2
56	20"x18" Supply Air Duct 90 Deg Elbow	EA	1	0%	1
57	22"x14" Supply Air Duct 90 Deg Elbow	EA	1	0%	1
58	30"x20" Supply Air Duct 90 Deg Elbow	EA	3	0%	3
59	36"x18" Supply Air Duct 90 Deg Elbow	EA	1	0%	1
60	6" Dia Supply Air Duct 45 Deg Elbow	EA	1	0%	1
61	8" Dia Supply Air Duct 45 Deg Elbow	EA	5	0%	5
62	12"x12" Supply Air Duct 45 Deg Elbow	EA	2	0%	2
63	22"x12" Return Air Duct 90 Deg Elbow	EA	1	0%	1
64	28"x16" Return Air Duct 90 Deg Elbow	EA	1	0%	1
65	36"x20" Return Air Duct 90 Deg Elbow	EA	3	0%	3
66	6" Dia Exhaust Air Duct 90 Deg Elbow	EA	7	0%	7
67	8" Dia Exhaust Air Duct 90 Deg Elbow	EA	1	0%	1
68	10" Dia Exhaust Air Duct 90 Deg Elbow	EA	2	0%	2
69	10"x10" Exhaust Air Duct 90 Deg Elbow	EA	3	0%	3
	Take-Off				
70	6"x10" / 8" Dia Supply Air Duct Takeoff	EA	3	0%	3
71	8" / 6" Dia Supply Air Duct Takeoff	EA	5	0%	5
72	8" / 8" Dia Supply Air Duct Takeoff	EA	6	0%	6
73	10" / 6" Dia Supply Air Duct Takeoff	EA	2	0%	2
74	10" / 8" Dia Supply Air Duct Takeoff	EA	11	0%	11
75	10"x10" / 6" Dia Supply Air Duct Takeoff	EA	2	0%	2
76	10"x10" / 8" Dia Supply Air Duct Takeoff	EA	16	0%	16
77	10"x10" / 8"x10" Supply Air Duct Takeoff	EA	1	0%	1
78	10"x10" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
79	10"x10" / 10"x10" Supply Air Duct Takeoff	EA	1	0%	1
80	10"x12" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
81	12" / 10" Dia Supply Air Duct Takeoff	EA	2	0%	2

BREAKDOWN OF ITEMS

Prepared for:

Project ID:

Scope: HVAC



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
82	12" / 12" Dia Supply Air Duct Takeoff	EA	1	0%	1
83	14"x12" / 10" Dia Supply Air Duct Takeoff	EA	3	0%	3
84	14"x12" / 12"x8" Supply Air Duct Takeoff	EA	1	0%	1
85	14"x14" / 6" Dia Supply Air Duct Takeoff	EA	1	0%	1
86	14"x16" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
87	16"x12" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
88	18"x12" / 8" Dia Supply Air Duct Takeoff	EA	1	0%	1
89	18"x14" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
90	18"x16" / 6" Dia Supply Air Duct Takeoff	EA	1	0%	1
91	18"x16" / 8" Dia Supply Air Duct Takeoff	EA	1	0%	1
92	18"x16" / 10" Dia Supply Air Duct Takeoff	EA	2	0%	2
93	18"x18" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
94	20"x12" / 10" Dia Supply Air Duct Takeoff	EA	3	0%	3
95	20"x12" / 12"x8" Supply Air Duct Takeoff	EA	1	0%	1
96	20"x14" / 14"x12" Supply Air Duct Takeoff	EA	2	0%	2
97	20"x16" / 10" Dia Supply Air Duct Takeoff	EA	1	0%	1
98	20"x18" / 8" Dia Supply Air Duct Takeoff	EA	1	0%	1
99	20"x18" / 16"x12" Supply Air Duct Takeoff	EA	1	0%	1
100	22"x14" / 10" Dia Supply Air Duct Takeoff	EA	2	0%	2
101	22"x16" / 20"x12" Supply Air Duct Takeoff	EA	1	0%	1
102	26"x20" / 24"x16" Supply Air Duct Takeoff	EA	1	0%	1
103	30"x20" / 6"x6" Supply Air Duct Takeoff	EA	1	0%	1
104	30"x20" / 8" Dia Supply Air Duct Takeoff	EA	1	0%	1
105	30"x20" / 14"x12" Supply Air Duct Takeoff	EA	1	0%	1
106	26"x24" / 16"x24" Return Air Duct Takeoff	EA	2	0%	2
107	36"x20" / 28"x16" Return Air Duct Takeoff	EA	2	0%	2
108	6" / 6" Dia Exhaust Air Duct Takeoff	EA	1	0%	1
109	8" / 6" Dia Exhaust Air Duct Takeoff	EA	4	0%	4
110	10" / 6" Dia Exhaust Air Duct Takeoff	EA	2	0%	2
111	10" / 8" Dia Exhaust Air Duct Takeoff	EA	1	0%	1
112	10"x10" / 6" Dia Exhaust Air Duct Takeoff	EA	3	0%	3
113	10"x10" / 8" Dia Exhaust Air Duct Takeoff	EA	1	0%	1
	Reducer				
114	8" / 6" Dia Supply Air Duct Reducer	EA	4	0%	4
115	8"x10" / 6"x10" Supply Air Duct Reducer	EA	1	0%	1
116	10" / 8" Dia Supply Air Duct Reducer	EA	6	0%	6
117	14"x12" / 10"x12" Supply Air Duct Reducer	EA	1	0%	1
118	14"x12" / 12"x8" Supply Air Duct Reducer	EA	1	0%	1
119	14"x14" / 14"x12" Supply Air Duct Reducer	EA	1	0%	1
120	14"x16" / 14"x14" Supply Air Duct Reducer	EA	1	0%	1
121	16"x12" / 12"x12" Supply Air Duct Reducer	EA	1	0%	1
122	18"x12" / 14"x12" Supply Air Duct Reducer	EA	1	0%	1
123	18"x14" / 18"x12" Supply Air Duct Reducer	EA	1	0%	1

BREAKDOWN OF ITEMS

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Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
124	18"x16" / 14"x16" Supply Air Duct Reducer	EA	1	0%	1
125	18"x16" / 18"x14" Supply Air Duct Reducer	EA	1	0%	1
126	18"x18" / 18"x16" Supply Air Duct Reducer	EA	1	0%	1
127	20"x12" / 14"x12" Supply Air Duct Reducer	EA	1	0%	1
128	20"x16" / 18"x16" Supply Air Duct Reducer	EA	1	0%	1
129	20"x18" / 16"x12" Supply Air Duct Reducer	EA	1	0%	1
130	20"x18" / 20"x16" Supply Air Duct Reducer	EA	1	0%	1
131	26"x20" / 20"x18" Supply Air Duct Reducer	EA	1	0%	1
132	30"x20" / 26"x20" Supply Air Duct Reducer	EA	1	0%	1
133	36"x18" / 18"x16" Supply Air Duct Reducer	EA	1	0%	1
134	36"x18" / 20"x18" Supply Air Duct Reducer	EA	1	0%	1
135	62"x26" / 36"x18" Supply Air Duct Reducer	EA	1	0%	1
136	62"x26" / 36"x20" Supply Air Duct Reducer	EA	1	0%	1
137	68"x19" / 36"x20" Return Air Duct Reducer	EA	2	0%	2
138	8" / 6" Dia Exhaust Air Duct Reducer	EA	1	0%	1
139	10" / 6" Dia Exhaust Air Duct Reducer	EA	1	0%	1
140	10" / 8" Dia Exhaust Air Duct Reducer	EA	1	0%	1
141	18"x10" / 10"x10" Exhaust Air Duct Reducer	EA	1	0%	1
	Transition				
142	10"x10" / 8" Dia Supply Air Duct Transition	EA	4	0%	4
143	10"x10" / 10" Dia Supply Air Duct Transition	EA	1	0%	1
144	14"x12" / 12" Dia Supply Air Duct Transition	EA	2	0%	2
145	8"x4" / 6" Dia Exhaust Air Duct Transition	EA	1	0%	1
146	10"x10" / 10" Dia Exhaust Air Duct Transition	EA	1	0%	1

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