

Section 2		
VAV Box	Diffuser	CFMs
VAV 4	S-4	430
VAV 7	S-5	570
VAV 7	S-5	570
Total		1570

Section 4		
VAV Box	Diffuser	CFMs
VAV 1	S-1	105
VAV 1	S-2	140

Duct lengths

Original Plan	Feet	Gauge	Sum 2 Sides	lb/ft	Total Wt
8" Dia	7.8125	20	25	7.3	57.03125
9" Dia	10.083	20	28	8.1	81.6723
12x8	63	18	20	7.6	478.8
16x12	10	22	28	7	70
16x8	18	22	24	6	108
14x12	35.33	18	26	9.9	349.767
12x12	3.583	24	24	5.2	18.6316
Total Weight					1163.90215
Cost					\$7,099.80

Punch Through	Feet	Gauge	Sum 2 Sides	lb/ft	Total Wt
8" Dia	N/A		25		
9" Dia	52.083	18	28	10.6	552.0798
12x8	32	18	20	5.2	166.4
16x12	2.5	22	28	7	17.5
16x8	17	18	24	9.1	154.7
14x12	35.33	18	26	9.9	349.767
12x12	3.583	24	24	5.2	18.6316
Total Weight					1259.0784
Cost					\$7,680.38

Re Route	Feet	Gauge	Sum 2 Sides	lb/ft	Total Wt
8" Dia	0		25		0
9" Dia	53	18	28	10.6	561.8
12x8	30	18	20	7.6	228
16x12	10	18	28	10.6	106
16x8	17.5	18	24	9.1	159.25
14x12	0		26		0
12x12	0		24		0
Total Weight					1055.05
Cost					\$6,435.81

VAV Boxes	CFM	Min CFM	Inlet Size	Min Inlet	Max ADP	Model #
VAV 1	0-250	25% PSG	5"	10"	0.28	VCWE03
VAV 4	401-600	25% PSG	8"	12"	0.28	VCWE11
VAV 7	1001-1200	25% PSG	12"	16"	0.28	VCWE24

Supply Diffusers	CFM	S.D. Max	Throw	NC	Size	Spread
S-1	50-120	0.03	5'-10'	20	24"x24"	2'-6'
S-2	121-210	0.01	4'-6'	20	12"x12"	3'-8'
S-4	326-470	0.01	11'-14'	21	24"x24"	5'-12'
S-5	471-735	0.01	10'-14'	22	12"x12"	6'-15'

Roof Top Units	Total CFM	O/A CFM	Compressors	Mfg #	Weight
RT-5	6000	1250	2 @ 10 Tons	Trane SFHFC20	5430 Tons
RT-7	9000	5900	2 @ 15 Tons	Trane SFHFC30	6270 Tons