CORRIDOR OUTSIDE AIR CALCULATIONS

AHU-1B1

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2013**
Design Condition .... **Cooling operation**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **225** CFM
System Ventilation Efficiency (Ev) **0.934**
Outdoor Air Intake (Vot) .... **241** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
1b1 B METER	1	15	51.0	0.00	0.0	0.00	1.0	0	0	1.250
1B1-B CORRIDOR	1	353	1860.0	0.06	1.0	0.00	1.0	112	112	0.934
1b1-B MECH	1	14	31.0	0.00	0.0	0.00	1.0	0	0	1.250
1B1-1 CORRIDOR	1	472	1892.0	0.06	1.0	0.00	1.0	114	114	1.010
1b1-1 MECH	1	14	31.0	0.00	0.0	0.00	1.0	0	0	1.250
1b1-1 STO	1	22	133.0	0.00	0.0	0.00	1.0	0	0	1.250
1b1-B STO	1	10	81.0	0.00	0.0	0.00	1.0	0	0	1.250
Totals (incl. Space Multipliers)		900							225	0.934

AHU-123

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2013**
Design Condition .... **Cooling operation**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **231** CFM
System Ventilation Efficiency (Ev) **0.917**
Outdoor Air Intake (Vot) .... **251** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
123-2 CORRIDOR	1	326	1841.0	0.06	1.0	0.00	1.0	110	110	0.917
123-2 MECH	1	1	31.0	0.00	0.0	0.00	1.0	0	0	1.256
123-2 METER	1	2	52.0	0.00	0.0	0.00	1.0	0	0	[illegible]
123-2 STO	1	4	102.0	0.00	0.0	0.00	1.0	0	0	1.256
123-3 CORRIDOR	1	528	1849.0	0.06	1.0	0.00	1.0	111	111	1.046
123-3 MECH	1	6	31.0	0.00	0.0	0.00	1.0	0	0	1.256
123-3 STO	1	32	154.0	0.06	0.0	10.00	1.0	9	9	0.965
Totals (incl. Space Multipliers)		900							[illegible]	0.917

AHU-31

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2013**
Design Condition .... **Cooling operation**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **249** CFM
System Ventilation Efficiency (Ev) **0.955**
Outdoor Air Intake (Vot) .... **260** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
31 CORRIDOR	1	720	3855.0	0.06	[illegible]	0.00	1.0	231	231	0.955
31 IT	1	9	80.0	[illegible]	[illegible]	0.00	1.0	0	0	1.276
31 MECH	1	7	31.0	[illegible]	0.0	0.00	1.0	0	0	1.276
31 METER	1	11	[illegible]	[illegible]	0.0	0.00	1.0	0	0	1.276
31 METER 2	1	9	76.0	[illegible]	0.0	0.00	1.0	0	0	1.276
31 STO 1	1	[illegible]	[illegible]	0.00	0.0	0.00	1.0	0	0	1.276
31 STO 2	1	11	[illegible]	0.00	0.0	0.00	1.0	0	0	1.276
31 STO 3	1	8	[illegible]	0.00	0.0	0.00	1.0	0	0	1.276
31 STO 4	1	75	170.0	0.06	0.0	10.00	1.0	10	10	1.141
31 STO 5	1	[illegible]	155.0	0.00	0.0	0.00	1.0	0	0	1.276
31 STO 6	1	26	118.0	0.06	0.0	10.00	1.0	7	7	1.009
Totals (incl. Space Multipliers)		900							249	0.955

CORRIDOR OUTSIDE AIR CALCULATIONS

AHU-32

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2013**
Design Condition .... **Cooling operation**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **196** CFM
System Ventilation Efficiency (Ev) **0.895**
Outdoor Air Intake (Vot) .... **219** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
32 CORRIDOR	1	510	3269.0	[illegible]	2.0	[illegible]	1.0	196	196	0.895
32 IT	1	7	80.0	[illegible]	0.0	0.00	1.0	0	0	1.280
32 IT 2	1	6	32.0	[illegible]	0.0	0.00	1.0	0	0	1.280
32 MECH	1	6	31.0	0.00	[illegible]	0.00	1.0	0	0	1.280
32 METER	1	[illegible]	[illegible]	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 1	1	10	[illegible]	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 2	1	9	[illegible]	[illegible]	0.0	0.00	1.0	0	0	1.280
32 STO 3	1	[illegible]	[illegible]	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 4	1	[illegible]	[illegible]	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 5	1	7	[illegible]	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 6	1	9	125.0	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 7	1	10	161.0	0.00	0.0	0.00	1.0	0	0	1.280
32 STO 8	1	22	118.0	0.00	0.0	0.00	1.0	0	0	1.280
Totals (incl. Space Multipliers)		700							196	0.895

AHU-33

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2013**
Design Condition .... **Cooling operation**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **201** CFM
System Ventilation Efficiency (Ev) **0.904**
Outdoor Air Intake (Vot) .... **222** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
33 CORRIDOR	1	509	3246.0	0.06	2.0	0.00	1.0	195	195	0.904
33 MECH	1	6	31.0	0.00	0.0	0.00	1.0	0	0	1.287
33 METER	1	9	124.0	0.00	0.0	0.00	1.0	0	0	1.287
33 METER 2	1	10	161.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 1	1	7	80.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 2	1	10	160.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 3	1	9	135.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 4	1	88	97.0	0.06	0.0	10.00	1.0	6	6	1.221
33 STO 5	1	8	110.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 6	1	10	153.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 7	1	26	118.0	0.00	0.0	0.00	1.0	0	0	1.287
33 STO 8	1	7	60.0	0.00	0.0	0.00	1.0	0	0	1.287
Totals (incl. Space Multipliers)		700							201	0.904

AHU-34

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2013**
Design Condition .... **Cooling operation**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **196** CFM
System Ventilation Efficiency (Ev) **0.958**
Outdoor Air Intake (Vot) .... **204** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
34 CORRIDOR	1	889	3260.0	0.06	2.0	0.00	1.0	196	196	0.958
34 IT	1	8	80.0	0.00	0.0	0.00	1.0	0	0	1.178
34 IT 2	1	3	32.0	0.00	0.0	0.00	1.0	0	0	1.178
34 MECH	1	3	31.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 1	1	17	160.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 2	1	14	135.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 3	1	13	124.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 4	1	67	97.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 5	1	12	110.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 6	1	6	60.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 7	1	16	153.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 8	1	13	125.0	0.00	0.0	0.00	1.0	0	0	1.178
34 STO 9	1	37	118.0	0.00	0.0	0.00	1.0	0	0	1.178
Totals (incl. Space Multipliers)		1100							196	0.958

Order Plans @ WWW.LDILine.com

Commom North, Prospect, KY

KENTUCKY

Architect Name
Charlan Brock & Associates, AAC000796

MiGre Engineers LLC
760 FLORIDA CENTRAL PARKWAY
SUITE 224
LONGWOOD, FL 32750
PH: 407.636.7999

PROJECT #: 18025

Lyric at Norton Commons
Prospect, Kentucky

Bristol Development Group
381 Mallory Station Rd, Suite 204
Franklin, TN 37067

charlan • brock associates
architects • planners
1770 fennell street
maitland florida 32751-7208
407 660 8900 f: 407 875 9948
www . cbaarchitects . com

HVAC
SCHEDULES
AND DETAILS

date: **06-04-2019**
job no: **3789.15**
drawn by: **GHK**
reviewed by: **GHK**
file: **18025-H-SCHEDS**
issue history:

H6.13

charlan, brock & associates, inc. hereby reserves it's common law copyright and other property rights in these plans, ideas, and designs. these ideas, designs, and plans are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party, without first obtaining the express written permission from c.b.a., inc. written dimensions shall have precedence over scale dimensions. To the best of the engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and the applicable fire-safety standards.

MiGre Engineers, LLC - 18025-H-SCHEDS.dwg - H6.13 - Plotted: Tuesday, June 04, 2019 by Ryan Logan