Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 04/02/2025

Completed By: National TAB

PROJECT

SNC Office Improvements (Miamisburg, OH)

9555 Springboro Pike

Miamisburg, OH 45342

Client

Mechanical Services & Design (MSD)

4401 Springfield St

Dayton, OH 45431

National TAB

Project: SNC Office Improvements (Miamisburg, OH)

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CERTIFICATION

PROJECT: SNC Office Improvements (Miamisburg, OH)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems.* Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM:	National TAB
REGISTRATION NO:	3629
CERTIFIED BY:	Joe Hertenstein
DATE:	4/2/2025

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM:	National TAB
REGISTRATION NO:	3629
CERTIFIED BY:	Joe Hertenstein
DATE:	

Submitted and Certified by:

NEBB TAB FIRM:	National TAB
TAB PROFESSIONAL:	Joe Hertenstein
SIGNATURE:	
REGISTRATION NO:	3629
CERTIFICATION EXP:	12/31/2025

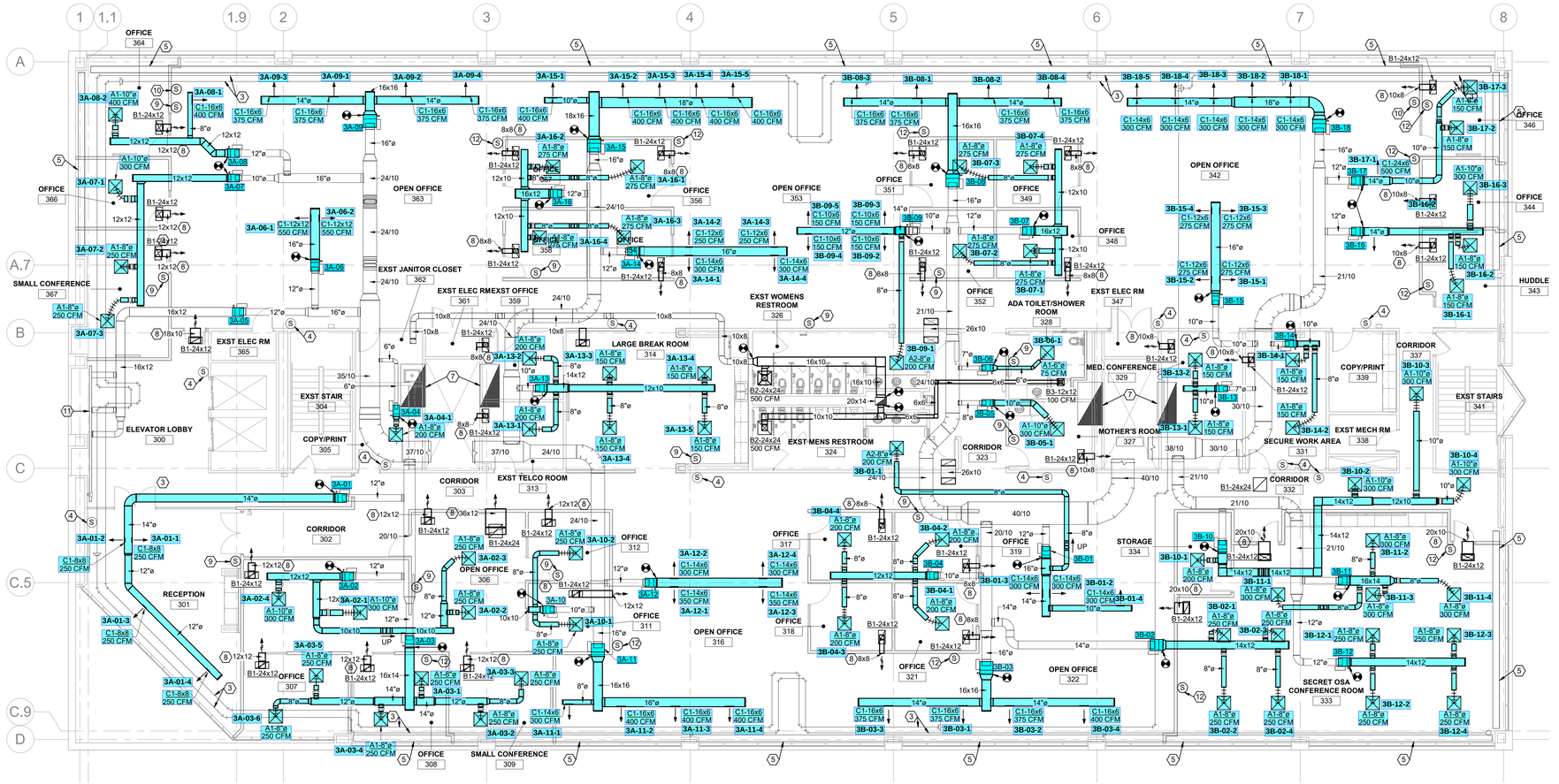
Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Evergreen S-PVF-1 S/N 2200484C	3/24/2025	3/24/2027
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Evergreen S-PVF-1 S/N 2200484C	3/24/2025	3/24/2027
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 5 % +/- 7 cfm	Evergreen S-PVF-1 S/N 2200484C	3/24/2025	3/24/2027
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	7/12/2024	7/12/2025
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	7/12/2024	7/12/2025
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	7/12/2024	7/12/2025
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 071118034	7/12/2024	7/12/2025
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Fluke 373 True RMS, S/N: 33290686	7/12/2024	7/12/2025
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Fluke 373 True RMS, S/N: 33290686	7/12/2024	7/12/2025
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	SHIMPO DT-207LR S/N: D1530081R	7/12/2024	7/12/2025
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Alnor HM680 S/N: 70807241	5/11/2024	5/31/2025
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Alnor HM680 S/N: 70807241	5/11/2024	5/31/2025

Abbreviation List

A = Area (ft^2)	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A_k = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T_{ma} = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T_{oa} = Outside Air Temperature
CD = Ceiling Diffuser	T_{ra} = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO2 = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C_v = Flow Constant	K_v = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T_{ra} = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
$\%_{ra}$ = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio

DRAWING NOTES

1. EXISTING DUCTWORK TO REMAIN (TYPICAL).
2. EXISTING VAV BOX TO REMAIN (TYPICAL).
3. EXISTING HOT WATER PIPING TO REMAIN (TYPICAL).
4. EXISTING THERMOSTAT TO REMAIN (TYPICAL).
5. EXISTING PERIMETER FINTUBE TO REMAIN (TYPICAL).
6. EXISTING EXHAUST SYSTEM TO REMAIN (TYPICAL).
7. EXISTING RETURN AIR DUCT STUB FOR PLENUM RETURN AIR TO REMAIN.
8. PROVIDE TRANSFER AIR DUCT.
9. RELOCATED EXISTING VAV THERMOSTAT.
10. RELOCATED EXISTING FINTUBE THERMOSTAT.
11. EXISTING SLOT DIFFUSER AND ASSOCIATED DUCTWORK TO REMAIN.
12. PROVIDE NEW VAV BOX THERMOSTAT WITH FINTUBE CONTROL INTERLOCK WITH VAV BOX.



1 HVAC FLOOR PLAN - NEW WORK
1/8" = 1'-0"

CHAMPLIN
ARCHITECTURE

10 S Patterson Blvd
Dayton, OH 45402
T 937.224.4474

thinkchamplin.com

THINK CREATE REALIZE

Miamisburg Office Renovation

Sierra Nevada Corporation

9555 Springboro Pike
Miamisburg, Ohio
45342

ISSUANCES

No.	Description	Date
	FOR BID/PERMIT	10/21/2024

Drawn By	KDB
Checked By	DST
Client No.	818
Project No.	7479

JEFFREY WETZEL
PE-76872
EXPIRATION DATE
12/31/2025

HVAC FLOOR PLAN - NEW WORK

H102

10/21/2024 2:09:10 PM

National TAB

Project:SNC Office Improvements (Miamisburg, OH)

VAV - Single Duct

VAVs/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
3A-01	VAV	EXISTING	1000	1017	100	100	0	0	2330
3A-02	VAV	EXISTING	1100	1075	110	115	0	0	1902
3A-03	VAV	EXISTING	1500	1486	150	153	0	0	1884
3A-04	VAV	EXISTING	200	210	20	20	0	0	448
3A-06	VAV	EXISTING	1100	1113	110	109	0	0	2711
3A-07	VAV	EXISTING	800	789	80	80	0	0	1444
3A-08	VAV	EXISTING	800	774	80	82	0	0	1846
3A-09	VAV	EXISTING	1500	1550	150	152	0	0	3669
3A-10	VAV	EXISTING	500	497	50	52	0	0	2015
3A-11	VAV	EXISTING	1500	1533	150	1506	0	0	3839
3A-12	VAV	EXISTING	1300	1341	130	134	0	0	1891
3A-13	VAV	EXISTING	600	577	60	59	0	0	1412
3A-14	VAV	EXISTING	1100	1156	110	114	0	0	3745
3A-15	VAV	EXISTING	2000	2100	200	209	0	0	3849
3A-16	VAV	EXISTING	1100	1083	110	112	0	0	1900
3B-01	VAV	EXISTING	1100	1154	110	115	0	0	1447
3B-02	VAV	EXISTING	1000	992	190	190	0	0	1899
3B-03	VAV	EXISTING	1525	1536	150	153	0	0	3654
3B-04	VAV	EXISTING	800	828	80	80	0	0	1881
3B-05	VAV	EXISTING	150	300	15	15	0	0	919
3B-06	VAV	EXISTING	75	75	7.5	7.5	0	0	506
3B-07	VAV	EXISTING	1100	1084	110	110	0	0	1453
3B-08	VAV	EXISTING	1500	1470	150	150	0	0	3839
3B-09	VAV	EXISTING	800	767	80	80	0	0	2158
3B-10	VAV	EXISTING	900	893	90	92	0	0	1891
3B-11	VAV	EXISTING	1200	1258	120	120	0	0	1669
3B-12	VAV	EXISTING	1000	1021	100	108	0	0	1891
3B-13	VAV	EXISTING	300	280	30	30	0	0	1563
3B-14	VAV	EXISTING	475	448	47	50	0	0	904
3B-15	VAV	EXISTING	1100	1085	110	114	0	0	1296
3B-16	VAV	EXISTING	600	542	110	110	550	555	771
3B-17	VAV	EXISTING	800	811	80	80	400	408	1897
3B-18	VAV	EXISTING	1500	1491	150	150	0	0	2524
VAV 03-312	VAV	EXISTING	400	394	40	43	0	0	944

Completed By: Aaron Cosby on 03/28/2025

Asset	Notes	Date	Written By
3A-13	DIFFUSERS 1 AND 2 ARE SERVED BY VAV 03-312 AIRFLOW TOTAL ADJUSTED TO REFLECT CONNECTED LOAD. GM	03/27/2025	Gabe Merk
3A-14	EXCESS AIR STUCK AT DIFFUSER 3&4 DUE TO DAMPERS THAT DONT FULLY OPEN/CLOSE	03/28/2025	Aaron Cosby
3B-01	diffuser 1 missing grille. unable to properly reduce airflow on duct sidewall diffusers due to damper not covering entire face. GM 3/26/25	03/26/2025	Gabe Merk
3B-08	.54 kfactor	03/26/2025	Aaron Cosby
3B-09	UNABLE TO BALANCE. WITH ALL DAMPERS CLOSED, AIR STILL TOO LOW ON DIFFUSER 1	03/28/2025	Aaron Cosby
3B-10	DIFFUSER 1 REMOVED FROM PRINTS AND CAPPED. GM	03/27/2025	Gabe Merk

National TAB

Project:SNC Office Improvements (Miamisburg, OH)

Diffuser Supply (GRD)

3A-01/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-01-SGRD1	301	CD	14	250	491	234	93.6
3A-01-SGRD2	301	CD	14	250	221	236	94.4
3A-01-SGRD3	301	CD	12	250	292	273	109.2
3A-01-SGRD4	301	CD	12	250	326	274	109.6
Total				1000	1330	1017	101.7%

3A-02/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-02-SGRD1	306	CD	12X12	300	456	304	101.3
3A-02-SGRD2	306	CD	12	250	32	246	98.4
3A-02-SGRD3	306	CD	8	250	231	228	91.2
3A-02-SGRD4	306	CD	12X12	300	383	297	99.0
Total				1100	1102	1075	97.73%

3A-03/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-03-SGRD1	308	CD	8	250	133	253	101.2
3A-03-SGRD2	309	CD	8	250	115	258	103.2
3A-03-SGRD3	309	CD	8	250	149	256	102.4
3A-03-SGRD4	308	CD	8	250	108	236	94.4
3A-03-SGRD5	307	CD	8	250	105	233	93.2
3A-03-SGRD6	307	CD	8	250	129	250	100.0
Total				1500	739	1486	99.07%

3A-04/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-04-SGRD1	304	CD	6	200	210	210	105.0
Total				200	210	210	105%

3A-06/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-06-SGRD1	363	CD	16	550	640	592	107.6
3A-06-SGRD2	363	CD	16	550	934	521	94.7
Total				1100	1574	1113	101.18%

3A-07/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-07-SGRD1	366	CD	12X12	300	484	290	96.7
3A-07-SGRD2	367	CD	12X12	250	320	235	94.0
3A-07-SGRD3	367	CD	12X12	250	368	264	105.6
Total				800	1172	789	98.62%

3A-08/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-08-SGRD1	364	CD	16x16	400	298	394	98.5
3A-08-SGRD2	364	CD	10	400	490	380	95.0
Total				800	788	774	96.75%

3A-09/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-09-SGRD1	363	CD	14	375	364	372	99.2
3A-09-SGRD2	363	CD	14	375	444	412	109.9
3A-09-SGRD3	363	CD	14	375	378	378	100.8
3A-09-SGRD4	363	CD	14	375	388	388	103.5
Total				1500	1574	1550	103.33%

3A-10/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-10-SGRD1	311	CD	8	250	215	239	95.6
3A-10-SGRD2	312	CD	8	250	319	258	103.2
Total				500	534	497	99.4%

3A-11/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-11-SGRD1	316	CD	8	300	328	306	102.0
3A-11-SGRD2	316	CD	16	400	344	365	91.3
3A-11-SGRD3	316	CD	16	400	436	434	108.5
3A-11-SGRD4	316	CD	16	400	413	428	107.0
Total				1500	1521	1533	102.2%

3A-12/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-12-SGRD1	316	CD	12	350	326	326	93.1
3A-12-SGRD2	316	CD	12	300	341	341	113.7
3A-12-SGRD3	316	CD	12	350	350	350	100.0
3A-12-SGRD4	316	CD	12	300	324	324	108.0
Total				1300	1341	1341	103.15%

3A-13/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-13-SGRD3	314	CD	8	150	110	146	97.3
3A-13-SGRD4	314	CD	8	150	103	135	90.0
3A-13-SGRD5	314	CD	8	150	113	146	97.3
3A-13-SGRD6	314	CD	8	150	123	150	100.0
Total				600	449	577	96.17%

3A-14/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-14-SGRD1	353	CD	16	300	326	262	87.3
3A-14-SGRD2	353	CD	16	250	255	266	106.4
3A-14-SGRD3	353	CD	16	250	444	278	111.2
3A-14-SGRD4	353	CD	16	300	635	350	116.7
Total				1100	1660	1156	105.09%

3A-15/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-15-SGRD1	353	CD	10	400	308	372	93.0
3A-15-SGRD2	353	CD	18	400	496	424	106.0
3A-15-SGRD3	353	CD	18	400	439	439	109.8
3A-15-SGRD4	353	CD	18	400	451	426	106.5
3A-15-SGRD5	353	CD	18	400	438	439	109.8
Total				2000	2132	2100	105%

3A-16/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3A-16-SGRD1	356	CD	8	275	289	266	96.7
3A-16-SGRD2	356	CD	8	275	314	277	100.7
3A-16-SGRD3	356	CD	8	275	245	269	97.8
3A-16-SGRD4	356	CD	8	275	256	271	98.5
Total				1100	1104	1083	98.45%

3B-01/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-01-SGRD1	324	CD	8	200	75	97	48.5
3B-01-SGRD2	322	CD	14X6	300	235	354	118.0
3B-01-SGRD3	322	CD	14X6	300	257	356	118.7
3B-01-SGRD4	322	CD	14X6	300	274	347	115.7
Total				1100	841	1154	104.91%

3B-02/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-02-SGRD1	333	CD	8	250	170	244	97.6
3B-02-SGRD2	333	CD	8	250	156	233	93.2
3B-02-SGRD3	333	CD	8	250	174	246	98.4
3B-02-SGRD4	333	CD	8	250	182	269	107.6
Total				1000	682	992	99.2%

3B-03/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-03-SGRD1	322	CD	14	375	303	382	101.9
3B-03-SGRD2	322	CD	14	375	300	372	99.2
3B-03-SGRD3	322	CD	14	375	438	389	103.7
3B-03-SGRD4	322	CD	14	400	407	393	98.3
Total				1525	1448	1536	100.72%

3B-04/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-04-SGRD1	318	CD	8	200	139	212	106.0
3B-04-SGRD2	317	CD	8	200	112	183	91.5
3B-04-SGRD3	318	CD	8	200	136	218	109.0
3B-04-SGRD4	317	CD	8	200	141	219	109.5
Total				800	528	832	104%

3B-05/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-05-SGRD1	327	CD	10	300	560	302	100.7
Total				300	560	302	100.67%

3B-06/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-06-SGRD1	328	CD	6	75	85	80	106.7
Total				75	85	80	106.67%

3B-07/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-07-SGRD1	348	CD	8	275	188	276	100.4
3B-07-SGRD2	352	CD	8	275	122	257	93.5
3B-07-SGRD3	351	CD	8	275	216	277	100.7
3B-07-SGRD4	349	CD	8	275	248	274	99.6
Total				1100	774	1084	98.55%

3B-08/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-08-SGRD1	353	CD	14	375	636	341	90.9
3B-08-SGRD2	353	CD	14	375	369	380	101.3
3B-08-SGRD3	353	CD	14	375	640	345	92.0
3B-08-SGRD4	353	CD	14	375	556	404	107.7
Total				1500	2201	1470	98%

3B-09/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-09-SGRD1	324	CD	8	200	97	89	44.5
3B-09-SGRD2	353	CD	12	150	215	147	98.0
3B-09-SGRD3	353	CD	12	150	216	152	101.3
3B-09-SGRD4	353	CD	12	150	484	147	98.0
3B-09-SGRD5	353	CD	12	150	378	232	154.7
Total				800	1390	767	95.88%

3B-10/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-10-SGRD2	332	CD	10	300	245	279	93.0
3B-10-SGRD3	332	CD	10	300	273	322	107.3
3B-10-SGRD4	337	CD	10	300	372	292	97.3
Total				900	890	893	99.22%

3B-11/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-11-SGRD1	334	CD	8	300	220	325	108.3
3B-11-SGRD2	333	CD	8	300	218	319	106.3
3B-11-SGRD3	333	CD	8	300	224	290	96.7
3B-11-SGRD4	333	CD	8	300	210	324	108.0
Total				1200	872	1258	104.83%

3B-12/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-12-SGRD1	333	CD	12	250	356	266	106.4
3B-12-SGRD2	333	CD	12	250	201	259	103.6
3B-12-SGRD3	333	CD	12	250	386	232	92.8
3B-12-SGRD4	333	CD	12	250	144	264	105.6
Total				1000	1087	1021	102.1%

3B-13/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-13-SGRD1	327	CD	10	150	42	136	90.7
3B-13-SGRD2	329	CD	10	150	328	144	96.0
Total				300	370	280	93.33%

3B-14/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-14-SGRD1	331	CD	8	175	168	166	94.9
3B-14-SGRD2	331	CD	8	175	125	164	93.7
3B-14-SGRD3	339	CD	8	125	135	118	94.4
Total				475	428	448	94.32%

3B-15/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-15-SGRD1	342	CD	16	275	173	251	91.3
3B-15-SGRD2	342	CD	16	275	190	265	96.4
3B-15-SGRD3	342	CD	16	275	203	280	101.8
3B-15-SGRD4	342	CD	16	275	196	289	105.1
Total				1100	762	1085	98.64%

3B-16/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-16-SGRD1	343	CD	14	150	91	135	90.0
3B-16-SGRD2	343	CD	14	150	75	135	90.0
3B-16-SGRD3	344	CD	14	300	95	272	90.7
Total				600	261	542	90.33%

3B-17/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-17-SGRD1	346	CD	14	500	498	498	99.6
3B-17-SGRD2	346	CD	10	150	149	151	100.7
3B-17-SGRD3	346	CD	8	150	175	162	108.0
Total				800	822	811	101.38%

3B-18/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3B-18-SGRD1	342	CD	18	300	274	274	91.3
3B-18-SGRD2	342	CD	18	300	346	320	106.7
3B-18-SGRD3	342	CD	14	300	284	284	94.7
3B-18-SGRD4	342	CD	14	300	290	290	96.7
3B-18-SGRD5	342	CD	14	300	323	323	107.7
Total				1500	1517	1491	99.4%

VAV 03-312/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
VAV 03-312-SGRD1	359	CD	8	200	249	205	102.5
VAV 03-312-SGRD2	313	CD	8	200	145	192	96.0
Total				400	394	397	99.25%

Asset	Notes	Date	Written By
3B-01-SGRD2	k=0.48	03/26/2025	Gabe Merk