Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 02/19/2025

Completed By: National TAB

PROJECT

02-17-25 FREDDY'S DOUGLAS, GA

1200 South Madison Avenue

Douglas , GA 31533

Client

Freddy's Douglas, LLC

National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

Table Of Contents

Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

DOAS w/ Diffusers

Each of the DOAS were measured at their terminal devices or via traverse to establish a total flow for that unit. Each DOAS was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans

Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. . Any EF's that fell outside of this tolerance is noted throughout the report.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.

The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

Issue List

- DOAS (Unit 2) Duct Leakage
- DOAS Model Number Discrepancy
- Hood End Panels Not Installed
- KEF-1 (HD-1 Exhaust Fan) Leakage
- KEF-1 Grease Trap Not Installed
- RTU 1 Construction Filters
- RTU-1 Alarms / Running off return air temp sensor
- RTU-1 Missing GFI Outlet
- RTU-1 No Gas Line
- SGRD1-11 Missing Damper
- SGRD1-12, 13, 14 - No OBDs Installed
- SGRD2-6 Low FLow
- SGRD2-7 Missing Damper

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : DOAS (Unit 2) Duct Leakage

Description : The kitchen DOAS unit is leaking significantly at the supply drop. The leakage can be felt by hand on the side of the drop. Airflow is currently ~1900CFM out of 2800CFM design (68%) as-is. The fan speed is set to the maximum allowed frequency on the controller. (50Hz).

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 02/18/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : DOAS Model Number Discrepancy

Description : The installed DOAS model number does not match the model number shown on the mechanical plans. Currently a CAS-HVAC3-I.200-15-15T is installed. The plans call for a CASRTU3-I.300-15-20T. Recommend discussing with Engineer and Captive Aire to confirm this is acceptable. Airflow is currently 65% of design (with leakage at drop).

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 02/19/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : Hood End Panels Not Installed

Description : None of the Captive Air hood end panels are installed. Hood 1 is to have left & right quarter end panels. Hood 2 is to have a right quarter end panel and left vertical end panel. See M300.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

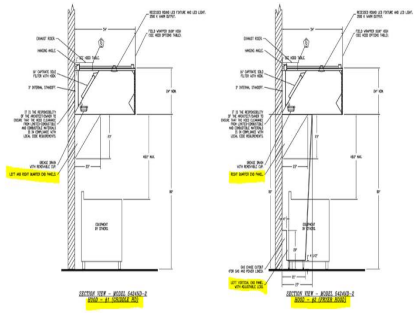
Status : Open

Priority : High

Asset Tag :

Originated Date : 02/18/2025 - Stephen Tassinaro - National TAB

Project Issue File Details



02/18/2025

02/18/2025

02/18/2025

Project Issue Response Details

- **02/19/2025 National TAB - Stephen Tassinaro**
  - Some containment is ~95% on both hoods without the end panels installed. Small amounts of smoke escape out of the back corners where end panels would normally be present.

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : KEF-1 (HD-1 Exhaust Fan) Leakage

Description : Leakage can be felt and heard around the base of the rooftop kitchen exhaust fan for Hood-1. Recommend adding an appropriate fire rated gasket to the fan or otherwise sealing the leakage.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 02/19/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : KEF-1 Grease Trap Not Installed

Description : The grease trap is not installed on KEF-1. The trap is sitting on the rooftop in its original packaging.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Low

Asset Tag :

Originated Date : 02/19/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : RTU 1 Construction Filters

Description : The manufacturer provided construction filters are still installed on RTU-1 (Dining). Recommend replacing with MERV 8 or greater filters.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 02/19/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name :	RTU-1 Alarms / Running off return air temp sensor		
Description :	RTU-1 is alarming for excessive supply air temp cooling and using return instead of space temp.		
Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	High	**Asset Tag :**	
Originated Date :	02/19/2025 - Stephen Tassinaro - National TAB		

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : RTU-1 Missing GFI Outlet

Description : GFI outlet is not installed on RTU-1. The wires are electrical taped and there is an open hole into the unit. Recommend installing GFI or patching hole and removing wires.

Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	02/19/2025 - Stephen Tassinaro - National TAB		

Project Issue File Details

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : RTU-1 No Gas Line

Description : There is no gas line ran to RTU-1. This is causing discomfort in the dining area as there is no heat.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : High

Asset Tag :

Originated Date : 02/19/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02/19/2025

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

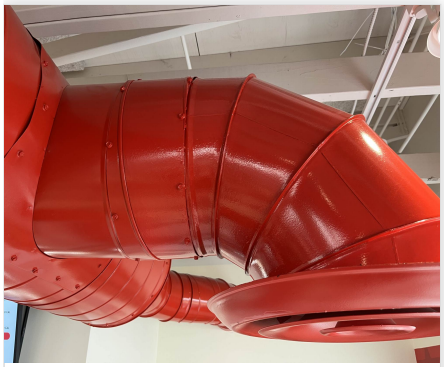
Project Issue Information

Issue Name : SGRD1-11 Missing Damper

Description : RTU 1 (Dining) Diffuser 11 does not have a manual balancing damper installed. Space adjusted for comfort only. A damper will need to be installed to push air to the remaining low diffusers.

Created By :	National TAB	**Assigned To :**	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	02/19/2025 - Stephen Tassinaro - National TAB		

Project Issue File Details



02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : SGRD1-12, 13, 14 - No OBDs Installed

Description : The face accessible opposed blade dampers were not installed on diffusers 12 thru 14 in the dining area. These face accessible dampers are required when the ductwork is above a hard ceiling. This is called for on the Diffusers Schedule.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 02/19/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : SGRD2-6 Low FLow

Description : The office supply diffuser is low on airflow. Currently 60CFM out of 200CFM design. The flex duct is kinked in a few places, restricting airflow. The air device is also too small. Mechanical plans call for a 24"x24" air device, a 12"x12" is currently installed.

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

Status : Open

Priority : Urgent

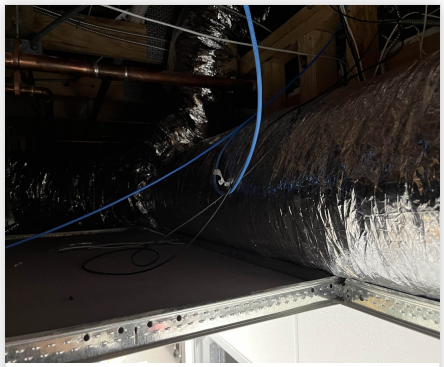
Asset Tag :

Originated Date : 02/18/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/19/2025

02/19/2025



02/19/2025

Project Issue Response Details

- **02/18/2025 National TAB - Stephen Tassinaro**
  - Even with the DOAS being low on total supply airflow, the office should still have 120-140CFM as-is.

02-17-25 FREDDY'S DOUGLAS, GA

Project Issue Information

Issue Name : SGRD2-7 Missing Damper

Description : SGRD2-7 (Drive-thru payment window) is missing a manual balancing damper. This is denoted by the "B" symbol on the mechanical plans. As a result this diffuser is high on supply airflow (118% proportionally).

Created By : National TAB

Assigned To : National TAB - Dan Hertenstein

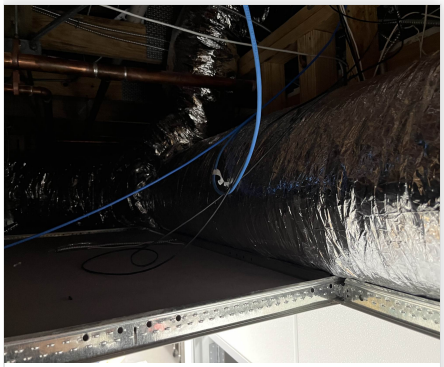
Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 02/18/2025 - Stephen Tassinaro - National TAB

Project Issue File Details



02/19/2025

NATIONAL TAB

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	DINING	5000	4901	4019	3949	981	952	19.6%	19.4%						
DOAS-1	KITCHEN	2800	1905	0	0	2800	1905	100.0%	100.0%						
KEF-1 (GRIDDLE)	KITCHEN											1600	1555		
KEF-2 (FRYER)	KITCHEN											775	792		
EF-1	RESTROOMS													75	80
EF-2	RESTROOMS													75	79
TOTALS		7800	6806	4019	3949	3781	2857			0	0	2375	2347	150	159

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3781	2857
TOTAL EXHAUST	2525	2506
NET AIRFLOW	1256	351

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.017
SIDE	0.015
REAR	0.01
AVERAGE	**0.014**

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

DOAS airflow is higher than measured due to leakage at the supply drop.

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CheckList List

- TECH - STEP 1: INITIAL WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST, ADJUST AND BALANCE
- TECH - STEP 4: FINAL TESTS

02-17-25 FREDDY'S DOUGLAS, GA

CheckList Information

Name :	TECH - STEP 1: INITIAL WALKTHROUGH	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/11/2025 - Nicole Seever - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	No
Comment: Office diffuser is 12x12 instead of 24x24 as specified on the MSET.	
All hood filters installed and accounted for?	Yes
Comment:	
Hoods are wired and have power?	Yes
Comment:	
Hood is free of alarms?	Yes
Comment:	
Thermostats have power?	Yes
Comment:	

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Comment:

Yes

02-17-25 FREDDY'S DOUGLAS, GA

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/11/2025 - Nicole Seever - National TAB		

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional?	Yes
Comment:	

DCV Max damper opening position is set to minimum?	Yes
Comment:	

Free cooling enthalpy set point set for lowest setting (Typically "D")	Yes
Comment:	

Motors are all operating below the FLA rating?	Yes
Comment:	

Are belts tight?

Comment:

Yes

If direct drive unit is the speed controller working.

Comment:

Yes

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Is gas piping installed and valves turned on?	No
Comment:	
Unit free of noticeable noise and vibration	No
Comment:	
EF's	
Rotation is correct?	Yes
Comment:	
Belts are tight?	
Comment:	
Grease cup installed on hood fan?	No
Comment:	
Hinge kit installed installed on hood fan?	Yes
Comment:	
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes
Comment:	
Flex conduit is long enough so that fan can be completely tilted back?	Yes
Comment:	
There is no major leakage around base of fan?	No
Comment:	
Is the motor operating below the motor FLA rating?	Yes
Comment:	
For restroom fan(s) is the back draft damper installed and can it fully open?	Yes

Comment:	
Unit free of noticeable noise and vibration?	Yes
Comment:	
MUA	
Rotation is correct?	N/A
Comment:	
No MUA at this location	
Gas piping is installed and valves are in on position?	N/A
Comment:	
Heater tested and is functional?	N/A
Comment:	
Internal motorized damper is fully opening?	N/A
Comment:	
Motor is operating below the FLA rating?	N/A
Comment:	
Unit free of noticeable noise and vibration?	N/A
Comment:	
HOODS	
Kitchen equipment installed in proper places?	Yes
Comment:	
Can kitchen equipment be turned on for final smoke test?	Yes
Comment:	
Griddle is completely centered underneath hood?	Yes

Comment:

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	Yes

Comment:

PICTURES TAKEN OF:

All Issues	Yes

Comment:

Attached to respective issues.

Each Piece of equipment	Yes

Comment:

Attached to respective asset.

Each Hood	Yes

Comment:

Attached to respective asset.

Front of Store	Yes

Comment:

02/19/2025

02-17-25 FREDDY'S DOUGLAS, GA

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/11/2025 - Nicole Seever - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	Yes
Comment:	
Is space comfortable in all areas?	No
Comment:	Dining room too cold due to lack of heat.
Is the space free of ventilation noise?	No
Comment:	Some ventilation noise can be heard from RTU-1 supply drop. Recommend monitoring during operations to determine if further action is required. Unit is currently operating at 98% of design.

If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".

Comment:

N/A

02-17-25 FREDDY'S DOUGLAS, GA

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	02/11/2025 - Nicole Seever - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NONE

List smoke candle type used

Comment:

45s Smoke Emitter

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

95% - Both hoods get occasional loss in the corners to to lack of end panels. This was with all cooking equipment off.

WITNESS

Date test was completed	02/19/2025

Comment:

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TAB tech name / Firm

Comment:

Stephen Tassinaro / NTi

Site super name / Firm

Comment:

Test recorded

Owner representative name / Firm (if Applicable)

Comment:

Test recorded

Building pressure at front & back doors (All Systems On)

Comment:

0.014" AVG

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)

Comment:

Yes

Thermostats are programmed?	Yes

Comment:

Thermostats Schdedules: Program all thermostats to following settings:

All three thermostats have correct time/date? (if not set correctly)	Yes

Comment:

Occupied Time: 8am-11:55pm	Yes

Comment:

Occupied Fan ON	Yes

Comment:

Occupied cooling 74	Yes

Comment:	
Occupied heating 68	Yes
Comment:	
Unoccupied Time 11:55pm-8am	Yes
Comment:	
Unoccupied Fan Auto	Yes
Comment:	
Unoccupied cooling 79	Yes
Comment:	
Unoccupied heating 63	Yes
Comment:	
Set a Partial Screen Lock for Thermostats (i.e., make sure temperature is adjustable but not schedule)	Yes
Comment:	
Password is set to 999 for Partial Screen Lock?	No
Comment: Password is 3642 for Honeywell thermostat and 1111 for Captive Aire HMI	
RTU Economizers	
Note: These instructions are for Lennox units. There are similar settings for other OEMs. Call office for assistance if needed.	
Enthalpy is set to "D" for all three units	Yes
Comment:	
"DCV Set" dials turned all the way to the left (counter clockwise)	Yes
Comment:	
"DCV Max" dials turned all the way to the left (counter clockwise)	Yes

Comment:

National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: AHU/RTU

Asset: DOAS1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6884566
Model Num	CASRTU3-I.300-15-20T-DOAS	CAS-HVAC3-I.200-15-15T
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16X25X2
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	2	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	5.48/2.74

Test Data		
	Design	**Actual**
SF CFM	2840	1905
SF RPM	-	1450
RA CFM	0	0
OA CFM	2840	1905
RL Voltage	-	141V VFD
RL Amperage	-	4.3A VFD
SF Rotation	-	CORRECT
SF System SetPt	-	50Hz
RA Damper Position	-	0%
Min OA Damper Position	-	100%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.30”
Fan Discharge SP	-	0.32”
Fan Total SP	-	0.62"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Stephen Tassinaro on 02/19/2025

Notes:
[1] Leakage at supply drop. [2] Model number discrepancy.

Written By: Stephen Tassinaro on 02/19/2025

Unit Data - PHOTO LOG

02/19/2025

National TAB

Project:02-17-25 FREDDY'S DOUGLAS, GA

AHU/RTU

Diffuser Supply (GRD)

DOAS1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	SD-2	10"	330	1	199	230	235	71.2
SGRD2	KITCHEN	SD-2	10"	330	1	267	222	227	68.8
SGRD3	KITCHEN	SD-3	10"	330	1	177	198	202	61.2
SGRD4	KITCHEN	SD-2	10"	330	1	320	224	229	69.4
SGRD5	KITCHEN	SD-3	10"	330	1	245	224	229	69.4
SGRD6	KITCHEN	RG-2	10"	200	1	47	59	60	30.0
SGRD7	KITCHEN	SD-2	10"	330	1	230	256	261	79.1
SGRD8	KITCHEN	SD-2	10"	330	1	196	231	236	71.5
SGRD9	KITCHEN	SD-2	10"	330	1	259	221	226	68.5
Total				2840		1940	1865	1905	67.08%

Asset	Notes	Date	Written By
SGRD6	Incorrect air device (12x12 installed - plans call for 24x24). Restrictive flex duct.	02/19/2025	Stephen Tassinaro
SGRD7	No damper installed.	02/19/2025	Stephen Tassinaro

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: AHU/RTU

Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	YORK
Serial Num	-	N2D4295156
Model Num	YSJ-150--	ZJ150N24R2B5DCE1A2
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28.65X20.75
Num Final Filter 1	-	4
Final Filter Size 1	-	20X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR RELIANCE
Frame	-	184T
Horsepower	3	5.0
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	13.5-13/6.5

Drive Data	
	Actual
Motor Sheave Size	VP56
Motor Bore Size	1 /8”
Motor Sheave SetPt	3.0 TURNS OUT
Fan Sheave Size	7.5”
Fan Sheave Bore	1.0”
Belt CL Distance	19.5”
Num of Belts	1
Belt Size	BX56
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	5000	4901
SF RPM	-	1169
RA CFM	4019	3949
OA CFM	981	952
RL Voltage	230	212/212/210
RL Amperage	-	13.4/14.0/14.0*
SF Rotation	-	CW
SF System SetPt	-	100%
RA Damper Position	-	78%
Min OA Damper Position	-	22%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	25.00

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.66”
Fan Suction SP	-	-1.19”
Fan Discharge SP	-	1.02”
Total ESP	1"	1.68"
Fan Total SP	-	2.21"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	CONSTRUCTION FILTERS
Condensate Drain Installed	YES

Completed By: Stephen Tassinaro on 02/19/2025

Notes:
*Readings taken before VFD as VFD cannot be accessed without blower door being open.

Written By: Stephen Tassinaro on 02/18/2025

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Unit Data - PHOTO LOG

02/19/2025

National TAB

Project:02-17-25 FREDDY'S DOUGLAS, GA

AHU/RTU

Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	SD-1	12"	470	1	518	486	486	103.4
SGRD2	DINING	SD-1	12"	470	1	561	485	485	103.2
SGRD3	DINING	SD-1	12"	470	1	651	496	496	105.5
SGRD4	DINING	SD-1	12"	470	1	555	484	484	103.0
SGRD5	DINING	SD-1	12"	470	1	320	414	414	88.1
SGRD6	DINING	SD-5	8"	150	1	221	148	148	98.7
SGRD7	DINING	SD-1	12"	470	1	311	345	345	73.4
SGRD8	DINING	SD-1	12"	470	1	317	361	361	76.8
SGRD9	DINING	SD-1	12"	470	1	442	480	480	102.1
SGRD10	DINING	SD-1	12"	470	1	408	481	481	102.3
SGRD11	DINING	SD-1	12"	470	1	415	489	489	104.0
SGRD12	DINING	SD-5	6"	50	1	65	67	67	134.0
SGRD13	RESTROOM	SD-5	6"	50	1	58	63	63	126.0
SGRD14	RESTROOM	SD-5	6"	50	1	82	102	102	204.0
Total				5000		4924	4901	4901	98.02%

Completed By: Stephen Tassinaro on 02/19/2025

Asset	Notes	Date	Written By
SGRD5	SGRD5, 7, and 8 low on supply airflow due to lack of balancing dampers on 4 diffusers further d own the branch. Space adjusted for comfort only.	02/19/2025	Stephen Tassinaro
SGRD11	No manual balance damper installed.	02/19/2025	Stephen Tassinaro
SGRD12	SGRD 12, 13, and 14 - No face-accessible OBD installed.	02/19/2025	Stephen Tassinaro

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: FAN - Exhaust

Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	GREENHECK	PENNBARRY
Model Num	SP-A200-390	Z8GP4
Serial Num	-	G24MZ15193
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	**Actual**
CFM	75	80
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	F10

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	N/L
Horsepower	0.08	1/10
Motor Rpm	900	1800
Phase	1	1
Voltage (rated)	0	115
Amperage (rated)	-	1.75
Service Factor	-	N/L

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Unit Data - PHOTO LOG

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: FAN - Exhaust

Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	GREENHECK	PENNBARYY
Model Num	SP-A200-390	Z8GP
Serial Num	-	G24MZ15194
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	**Actual**
CFM	75	79
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	F10

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	N/L
Horsepower	0.08	1/10
Motor Rpm	900	1800
Phase	1	1
Voltage (rated)	0	115
Amperage (rated)	-	1.75
Service Factor	-	N/L

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Unit Data - PHOTO LOG

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: FAN - Exhaust

Asset: KEF-1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	CASRE18DD
Serial Num	-	6884566
Type	UTILITY	UTLITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Horsepower	1	1.0
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.8

Test Data		
	Design	**Actual**
CFM	1600	1555
Fan Rotation	-	CORRECT
System SetPt	-	63.7Hz
RL Amperage	-	3.7A VFD
Total ESP	1.5"	0.91"
Fan Inlet SP	-	-0.91”
Fan Discharge SP	-	ATM

Completed By: Stephen Tassinaro on 02/19/2025

Notes:
Fan leaking at curb connection. This is making noise and can be felt by hand when feeling around the base of the fan.

Written By: Stephen Tassinaro on 02/19/2025

Unit Data - PHOTO LOG

02/19/2025

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: FAN - Exhaust

Asset: KEF-2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	6884566
Type	UPBLAST	CENTRIFUGAL
Configuration	VERTICLE	UPBLAST

Motor Data		
	Design	**Actual**
Horsepower	0.5	0.5
Phase	1	1
Voltage (rated)	208	115
Amperage (rated)	-	6.3

Test Data		
	Design	**Actual**
CFM	775	792
Fan Rotation	-	CORRECT
System SetPt	-	51% ECM
RL Voltage	-	122
RL Amperage	-	1.8
Total ESP	1.2"	0.67"
Fan Inlet SP	-	-0.67"
Fan Discharge SP	-	ATM

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Unit Data - PHOTO LOG

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: Kitchen Hood Type I

Asset: HD-1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	6884566
Type	CANOPY	TYPE I CANOPY
Hood length	96"	96”
Hood Width	54"	54"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	8.1	8.1
Filter1 FPM	-	183
Filter2 FPM	-	191
Filter3 FPM	-	202
Filter4 FPM	-	195
Filter5 FPM	-	190
Filter Ave FPM(corr)	-	192
CFM	1600	1555

Cooking Equipment	
	Actual
Item 1	GRIDDLE
Item 2	GRIDDLE

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Unit Data - PHOTO LOG

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National TAB

Project: 02-17-25 FREDDY'S DOUGLAS, GA

System/Unit: Kitchen Hood Type I

Asset: HD-2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424-ND-2	5424 ND-2
Job / Serial Num	-	6884566
Type	CANOPY	TYPE I CANOPY
Hood length	60"	60"
Hood Width	54"	54"

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	3	3
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	4.86	4.86
Filter1 FPM	-	173
Filter2 FPM	-	149
Filter3 FPM	-	167
Filter Ave FPM(corr)	-	163
CFM	775	792

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	FRYER

Completed By: Stephen Tassinaro on 02/18/2025

Unit Data - PHOTO LOG

02/19/2025

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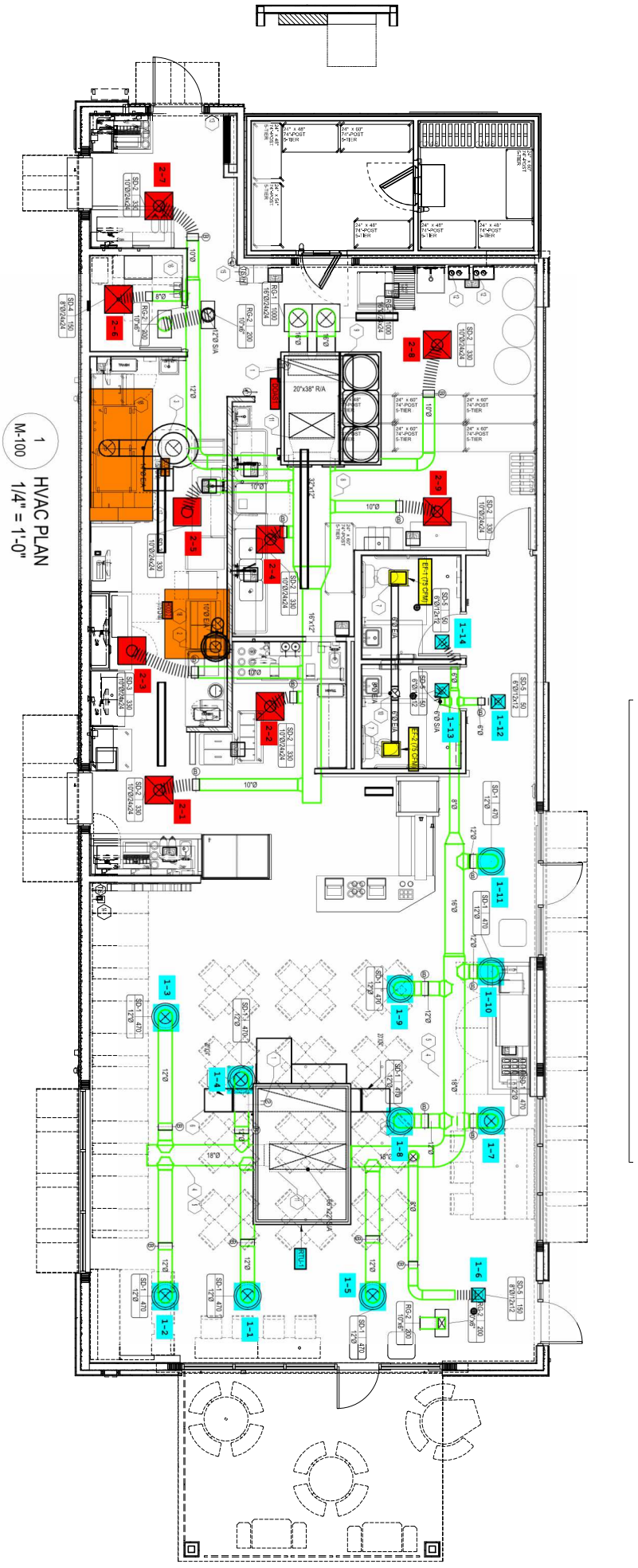
1
M-100
HVAC PLAN
1/4" = 1'-0"