Report By:

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

NATIONAL TAB

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Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 11/28/2022

PROJECT

11-28 FREDDY'S BETHLEHEM, GA (WINDER)

NA

BETHLEHEM, GA

Client

Bethlehem Custard Operations LLC
503 Carl-Bethlehem Rd

Bethlehem, GA 30620

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

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.

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Project Issue Information

Issue Name : 1. KEF-1, 2, and 3 not secured to curbs on roof.

Description : Kitchen Exhaust Fans are not secured to their curbs. Recommend fans are secured with screws.

Created By : National TAB **Assigned To :** National TAB - Michael McDonnell

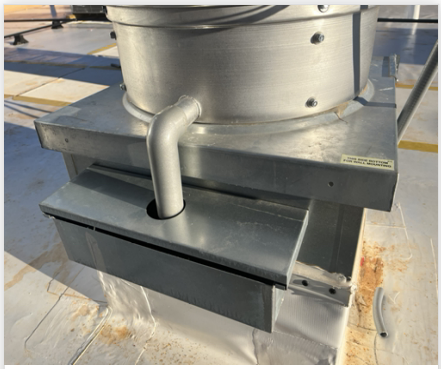
Status : Open

Originated Date : 11/29/2022 - Michael McDonnell - National TAB

Project Issue File Details

KEF-3.jpeg

KEF-1.jpeg



KEF-2.jpeg

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Project Issue Information

Issue Name : 2. KEF-1 Wind Band Extension not installed.

Description : Wind band extension is not Mounted on KEF-1. Hardware to secure extension not found. Recommend extension is installed to preserve and keep the DOAS coil clean.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 11/29/2022 - Michael McDonnell - National TAB

Project Issue File Details

Windband.jpeg

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Project Issue Information

Issue Name : 3. RTU-1 Throwaway Final Filters Installed

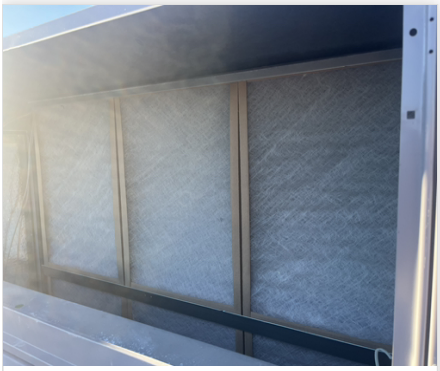
Description : Throwaway construction final filters are installed. Recommend pleated final filters are installed.

Created By : National TAB **Assigned To :** National TAB - Michael McDonnell

Status : Open

Originated Date : 11/29/2022 - Michael McDonnell - National TAB

Project Issue File Details



FinalFilters.jpeg

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Project Issue Information

Issue Name : 4. Exhaust curb not sealed.

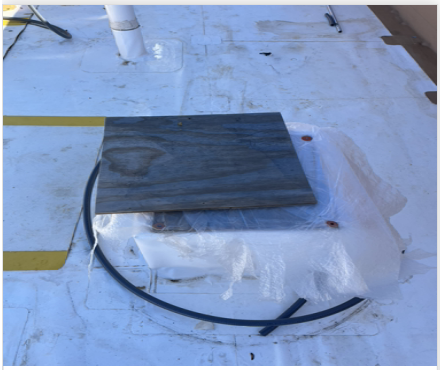
Description : Original plans called for a roof mounted restroom exhaust fan. Curb and ductwork were installed, but fan was not. Ceiling fans installed in restrooms instead. Unsure if roof mounted fan will still be installed. Curb is not sealed. Plywood is unsecured, laying over roof opening. Recommend opening is sealed.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

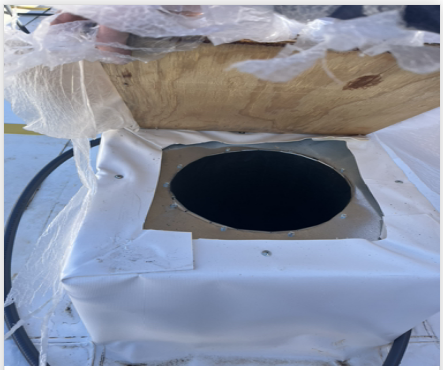
Status : Open

Originated Date : 11/29/2022 - Michael McDonnell - National TAB

Project Issue File Details



Curb.jpeg



Curb1.jpeg

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Project Issue Information

Issue Name : 5. Roof drain guards not installed.

Description : Roof drain guards are not installed. Recommend they are installed to prevent drains from clogging with debris.

Created By : National TAB **Assigned To :** National TAB - Michael McDonnell

Status : Open

Originated Date : 11/29/2022 - Michael McDonnell - National TAB

Project Issue File Details

Drainguards.jpeg

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Project Issue Information

Issue Name : 6. RTU-1 (Dining) Damper locations.

Description : RTU-1 dampers are installed in face of diffusers. Plans indicate dampers should be installed at the take-off from the main supply duct. As installed, dampers will create additional, unnecessary ventilation noise.

Created By : National TAB **Assigned To :** National TAB - Michael McDonnell

Status : Open

Originated Date : 11/29/2022 - Michael McDonnell - National TAB

Project Issue File Details

Diffuser.jpeg

Damper.jpeg

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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
DOAS 1	KITCHEN	4850	4925	3850	3850	1000	1075	20.6%	21.8%						
RTU-1	DINING	2650	2562	0	0	2650	2562	100.0%	100.0%						
KEF-1	HOOD1											1600	1701		
KEF-2	HOOD2											775	826		
KEF-3	HOOD3											525	522		
EF-1	RESTROOM													75	78
EF-2	RESTROOM													150	158
TOTALS		7500	7487	3850	3850	3650	3637			0	0	2900	3049	225	236

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3650	3637
TOTAL EXHAUST	3125	3285
NET AIRFLOW	525	352

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.008
SIDE	0.009
REAR	0.009
AVERAGE	**0.0087**

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:

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CheckList Information

Name :	SITE PICTURES	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

STORE FRONT

Storefront.jpeg

DOAS-1

DOAS.jpeg

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RTU-1

RTU-1.jpeg

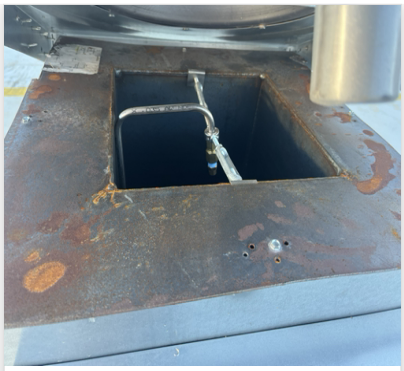
KEF-1

KEF-1.jpeg

KEF-1-g.jpeg

KEF-2

KEF-2.jpeg



KEF-2-g.jpeg

KEF-3

KEF-3.jpeg

EF-1

EF-1.jpeg

EF-2

EF-2.jpeg

HOOD-1

HD-1.jpeg

HOOD-2

HD-2.jpeg

HOOD-3

HD-3.jpeg

Notes/Comments :

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CheckList Information

Name :	TECH - STEP 1: INITIAL WALKTHROUGH	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	Yes
All hood filters installed and accounted for?	Yes
Hoods are wired and have power?	Yes
Hood is free of alarms?	Yes
Thermostats have power?	Yes
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	Yes

Notes/Comments :

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11-28 FREDDY'S BETHLEHEM, GA (WINDER)

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	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
DCV Max damper opening position is set to minimum?	Yes
Free cooling enthalpy set point set for lowest setting (Typically "D")	Yes, D on RTU-1
Motors are all operating below the FLA rating?	Yes
Are belts tight?	Yes
If direct drive unit is the speed controller working.	Yes
Is gas piping installed and valves turned on?	Yes
Unit free of noticeable noise and vibration	Yes

EF's

Rotation is correct?	Yes
Belts are tight?	NA, direct drive.
Grease cup installed on hood fan?	Yes
Hinge kit installed installed on hood fan?	Yes
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes

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Flex conduit is long enough so that fan can be completely tilted back?	Yes
There is no major leakage around base of fan?	Yes
Is the motor operating below the motor FLA rating?	Yes
For restroom fan(s) is the back draft damper installed and can it fully open?	Ceiling fans installed in RR.
Unit free of noticeable noise and vibration?	Yes
MUA	
Rotation is correct?	Store does not have standalone MUA.
Gas piping is installed and valves are in on position?	N/A
Heater tested and is functional?	N/A
Internal motorized damper is fully opening?	N/A
Motor is operating below the FLA rating?	N/A
Unit free of noticeable noise and vibration?	N/A
HOODS	
Kitchen equipment installed in proper places?	Yes
Can kitchen equipment be turned on for final smoke test?	Fryer not yet operational.
Griddle is completely centered underneath hood?	Yes
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	Yes
PICTURES TAKEN OF:	
All Issues	Yes
Each Piece of equipment	Yes
Each Hood	Yes
Front of Store	Yes

Notes/Comments :

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CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	Yes
Is space comfortable in all areas?	Yes
Is the space free of ventilation noise?	Yes
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	N/A

Notes/Comments :

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11-28 FREDDY'S BETHLEHEM, GA (WINDER)

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

FINAL TESTS	
HOOD CAPTURE TEST	
List equipment turned on for testing	Griddle
List smoke candle type used	45 second smoke emitter
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%
WITNESS	
Date test was completed	11/29/2022
TAB tech name / Firm	Michael McDonnell / National Tab
Site super name / Firm	NA
Owner representative name / Firm (if Applicable)	NA
Building pressure at front & back doors (All Systems On)	0.009"
ADDITIONAL	
Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	Yes
Thermostats are programmed?	Yes
Thermostats Schdedules: Program all thermostats to following settings:	

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All three thermostats have correct time/date? (if not set correctly)	Both units have correct time and date.
Occupied Time: 8am-11:55pm	Set
Occupied Fan ON	Set
Occupied cooling 74	Set
Occupied heating 68	Set
Unoccupied Time 11:55pm-8am	Set
Unoccupied Fan Auto	Set
Unoccupied cooling 79	Set
Unoccupied heating 63	Set
Set a Partial Screen Lock for Thermostats (i.e., make sure temperature is adjustable but not schedule)	Locked
Password is set to 999 for Partial Screen Lock?	Yes

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	Set to D on RTU-1.
"DCV Set" dials turned all the way to the left (counter clockwise)	Yes
"DCV Max" dials turned all the way to the left (counter clockwise)	Yes

Notes/Comments :

[1] DOAS occupancy is controlled by hood operation. Hoods on --> Occupied. Hoods Off--> Unoccupied.

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: AHU/RTU

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Asset: DOAS1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVE AIRE
Serial Num	-	5188729
Model Num	CASRTU3-I.300-1820TDOAS	CASRTU3-I.300-15-15T-DOAS
Type	RTU	RTU
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	3.0	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	5.48

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	60.0 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	**Actual**
SF CFM	2650	2562
SF RPM	-	1740
RA CFM	0	2562
OA CFM	2650	2562
RL Voltage	-	199 [1]
RL Amperage	-	5.3 [1]
SF Rotation	-	CCW
RA Damper Position	-	0%
Min OA Damper Position	-	100%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	0.00
Fan Discharge SP	-	0.19"
Total ESP	0.5"	0.19"

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

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Notes: [1] TAKEN FROM VFD

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Diffuser Supply (GRD)

DOAS1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	SD-3	10"	285	1.0	209	273	281	98.6
SGRD2	KITCHEN	SD-3	10"	285	1.0	211	282	280	98.2
SGRD3	KITCHEN	SD-3	10"	285	1.0	223	298	294	103.2
SGRD4	KITCHEN	SD-3	10"	285	1.0	205	283	289	101.4
SGRD5	KITCHEN	SD-3	10"	285	1.0	193	258	263	92.3
SGRD6	KITCHEN	SD-3	10"	285	1.0	185	248	264	92.6
SGRD7	KITCHEN	SD-3	10"	285	1.0	207	273	274	96.1
SGRD8	KITCHEN	SD-3	10"	280	1.0	168	231	258	92.1
SGRD9	KITCHEN	SD-4	8"	90	1.0	109	165	88	97.8
SGRD10	KITCHEN	SD-3	10"	285	1.0	198	275	271	95.1

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: AHU/RTU

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Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	CARRIER
Serial Num	-	2422P08137
Model Num	LGH150	48HCFE14ACM5A0F0A0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5X25.5
Num Final Filter 1	-	6
Final Filter Size 1	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	CENTURY
Frame	-	184T
Horsepower	-	5.0
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	12.6

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	1VP65
Motor Bore Size	-	1-1/8"
Motor Sheave SetPt	-	6 TURNS OPEN
Fan Sheave Size	-	BK120
Fan Sheave Bore	-	1"
Belt CL Distance	-	21.25"
Num of Belts	-	1
Belt Size	-	BX67
Belt Alignment	-	VERIFIED

Test Data		
	Design	**Actual**
SF CFM	4850	4925
SF RPM	-	769
RA CFM	3850	3850
OA CFM	1000	1075
RL Voltage	-	207/208/208
RL Amperage	-	7.9/8.1/8.0
SF Rotation	-	CCW
RA Damper Position	-	3.75"
Min OA Damper Position	-	1"
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	D

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.63"
Fan Suction SP	-	-0.96"
Fan Discharge SP	-	0.64"
Total ESP	1.0	1.27"
Fan Total SP	-	1.60"

General		
	Design	**Actual**
Fan Rotation Correct	-	YES
Unit Filters Clean	-	THROWAWAY FILTERS INSTALLED
Condensate Drain Installed	-	YES

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Notes:

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Project:11-28 FREDDY'S BETHLEHEM, GA (WINDER)

AHU/RTU

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Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	SD-1	12"	520	1.0	610	524	518	99.6
SGRD2	DINING	SD-1	12"'	520	1.0	532	509	541	104.0
SGRD3	DINING	SD-1	12"	520	1.0	455	395	490	94.2
SGRD4	DINING	SD-1	12"	520	1.0	731	654	524	100.8
SGRD5	DINING	SD-1	14"	520	1.0	562	506	482	92.7
SGRD6	DINING	SD-1	12"	500	1.0	370	344	505	101.0
SGRD7	DINING	SD-1	12"	500	1.0	879	786	483	96.6
SGRD8	DINING	SD-1	12"	500	1.0	484	471	510	102.0
SGRD9	DINING	SD-1	12"	500	1.0	581	555	498	99.6
SGRD10	RESTROOM	SD-5	10"	100	1.0	54	61	105	105.0
SGRD11	RESTROOM	SD-5	6"	100	1.0	103	90	106	106.0
SGRD12	RESTROOM	SD-5	6"	50	1.0	123	114	54	108.0
SGRD13	VESTIBULE	SD-5	6"	100	1.0	58	46	109	109.0

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: FAN - Exhaust

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Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	COOK	COOK
Model Num	GC-146	GEMINI 140 SERIES
Serial Num	-	515738
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	-	NL
Motor Rpm	900	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.40

Test Data		
	Design	**Actual**
CFM	75	78
Fan RPM	-	DD
Fan Rotation	-	CW
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER MARKED
RL Voltage	-	120
RL Amperage	-	0.30
Total ESP	0.25"	NA [1]
Fan Inlet SP	-	NA [1]
Fan Discharge SP	-	NA [1]

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Notes: [1] COULD NOT ACCESS DUE TO HARD CEILING.

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: FAN - Exhaust

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Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	COOK	COOK
Model Num	GC-186	GEMINI 180 SERIES
Serial Num	-	615740
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	-	NL
Motor Rpm	820	1350
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.0

Test Data		
	Design	**Actual**
CFM	150	158
Fan RPM	-	DD
Fan Rotation	-	CW
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER MARKED
RL Voltage	-	120
RL Amperage	-	0.80
Total ESP	0.25"'	NA [1]
Fan Inlet SP	-	NA [1]
Fan Discharge SP	-	NA [1]

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Notes: [1] COULD NOT ACCESS DUE TO HARD CEILING.

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: KEF1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVAIRE	CAPTIVAIRE
Model Num	CASRE18DD	DU85HFA
Serial Num	-	5188729
Type	UTILITY	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	1.0	0.75
Motor Rpm	1105	1800
Phase	3	1
Voltage (rated)	208	208
Amperage (rated)	-	5.2

Test Data		
	Design	**Actual**
CFM	1600	1701
Fan RPM	-	1404
Fan Rotation	-	CCW
Motor RPM	-	1404
System SetPt	-	78%
RL Voltage	-	208
RL Amperage	-	3.9
Total ESP	1.4"	0.60"'
Fan Inlet SP	-	-0.60"
Fan Discharge SP	-	ATM

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Notes:

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National TAB

Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: KEF2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	5188729
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	0.5
Motor Rpm	1532	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.3

Test Data		
	Design	**Actual**
CFM	775	826
Fan RPM	-	1260
Fan Rotation	-	CCW
Motor RPM	-	1260
System SetPt	-	70%
RL Voltage	-	119
RL Amperage	-	4.4
Total ESP	1.25"	0.87"
Fan Inlet SP	-	-0.87"
Fan Discharge SP	-	ATM

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: KEF3 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	5188729
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.333	0.33
Motor Rpm	1487	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.3
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	525	522
Fan RPM	-	1235
Fan Rotation	-	CCW
Motor RPM	-	1235
System SetPt	-	65%
RL Voltage	-	119
RL Amperage	-	3.2
Total ESP	0.8"	0.51"
Fan Inlet SP	-	-0.51"
Fan Discharge SP	-	ATM

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2	5424 ND-2
Job / Serial Num	-	5188729
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	96	96
Hood Width	54	54

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	6	6
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	9.72	9.72
Filter1 FPM	-	167
Filter2 FPM	-	168
Filter3 FPM	-	184
Filter4 FPM	-	190
Filter5 FPM	-	176
Filter6 FPM	-	166
Filter Ave FPM(corr)	-	175
CFM	1600	1701

Cooking Equipment		
	Design	**Actual**
Item 1	-	GRIDDLE

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	5188729
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROXIMITY
Hood length	60	60
Hood Width	54	54

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	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	-	167
Filter2 FPM	-	174
Filter3 FPM	-	170
Filter Ave FPM(corr)	-	170
CFM	775	826

Cooking Equipment		
	Design	**Actual**
Item 1	-	FRYER

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Project: 11-28 FREDDY'S BETHLEHEM, GA (WINDER)

System/Unit: Kitchen Hood Type II

Comfort. Under control.

Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4224 VHB-G	4224 VHB
Serial Num	-	5188729
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	42	42
Hood Width	42	42

Test Data		
	Design	**Actual**
Exhaust CFM	525	522

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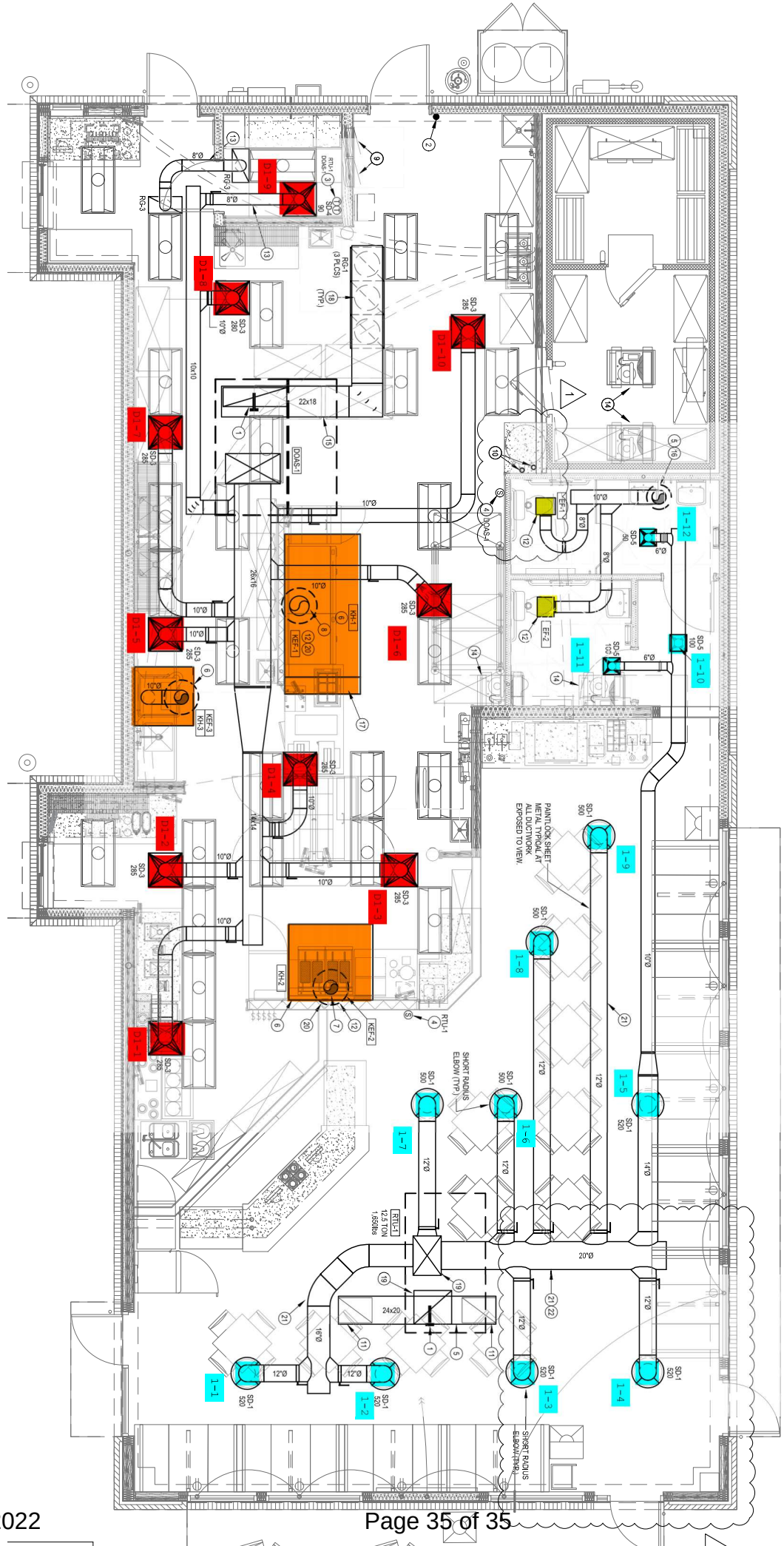

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