Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 05/22/2025

Completed By: National TAB

PROJECT

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

9815 NORTHLAKE CENTRE PARKWAY, SUITE 6

CHARLOTTE, NC 28216

Client

CAVA

702 H ST NW

2nd floor

Washington, DC 20001

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

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 are further details 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.

FCU's w/ Diffusers
Each of the FCU's were measured at their terminal devices utilizing a flow hood. The sum of these readings is equal to the total flow for that particular unit. The total flow of each FCU was then adjusted to within tolerance of the specified design. Each terminal diffuser was balanced to within tolerance of the engineer's design volume utilizing the provided hand damper located at the takeoff of the main & branch trunk line(s). Any equipment that fell outside of this 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.

MUA (Make Up Air Unit) w/ PSP
Total flow for the MAU (Make-up Air Unit) unit was measured by readings taken at the discharge of the hood's perforated supply plenum. Readings taken with a velocity matrix were averaged and multiplied by a manufacturer's corrected area. Adjustments to the fan speed were made in order to bring the unit to within design tolerance. Any MUA's that fell outside of this tolerance is noted throughout the report.

Ceiling Exhaust Fans
The ceiling exhaust fans were measured using a flow hood. If speed adjustment was provided, the fan speed was adjusted to within design tolerance. 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

- CEF1 & CEF2 / Speed Controllers
- DOS/MAU - No Label
- Hood / End Panel
- KEF1 / Label
- KEF1 / Rooftop Location
- MAU / Ductwork
- MAU / Gas Pipe Connection Leak
- RTU1 / Ductwork & insulation
- RTU1 / Location & Orientation
- RTU1 / SGRD14 Damper
- RTU1 / SGRD3 & SGRD7
- RTU1 / SGRD8 No Damper
- RTU2 / Humidity Sensor

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : CEF1 & CEF2 / Speed Controllers

Description : CEF1 & CEF2 speed controllers are not installed. Unable to balance fans to design CFM.

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

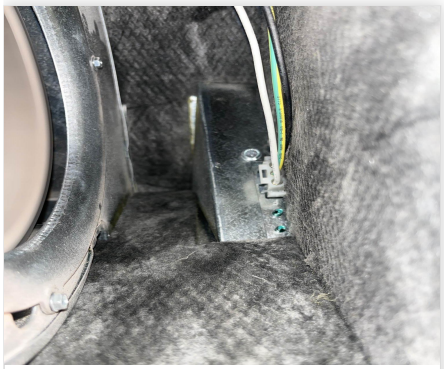
Status : Open

Priority : High

Asset Tag :

Originated Date : 05/20/2025 - Dale Wheeler - National TAB

Project Issue File Details



05/20/2025

05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : DOS/MAU - No Label
Description : No I.D. Tag is installed on the MAU/DOS unit.

Created By : National TAB
Assigned To : National TAB - Dale Wheeler
Status : Open
Priority : Low
Asset Tag :
Originated Date : 05/19/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/19/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : Hood / End Panel
Description : Hood end panel is not installed.

Created By : National TAB
Assigned To : National TAB - Dale Wheeler
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 05/20/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : KEF1 / Label
Description : KEF1 is not labeled on rooftop.

Created By : National TAB
Assigned To : National TAB - Dale Wheeler

Status : Open
Priority : Low
Asset Tag :
Originated Date : 05/19/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/19/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : KEF1 / Rooftop Location
Description : KEF1 is located on rooftop in a different location then shown on prints

Created By : National TAB
Assigned To : National TAB - Dale Wheeler

Status : Open
Priority : Low
Asset Tag :
Originated Date : 05/19/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/19/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : MAU / Ductwork

Description : MAU ductwork is not externally insulated & ductwork drop is installed different then called for on prints. Connection to the hood MUA plenum is not secured with foil taped to prevent air leakage

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 05/20/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/20/2025

05/20/2025

05/22/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : MAU / Gas Pipe Connection Leak

Description : MAU gas pipe connection is leaking gas. Heater is unable to be tested. Gas valve's for MAU, RTU1, RTU2 were in the off position upon arrival.

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 05/20/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/20/2025

05/20/2025

05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : RTU1 / Ductwork & insulation

Description : RTU1 ductwork is not installed per plans due unit location on rooftop. Also ductwork is not externally insulated

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

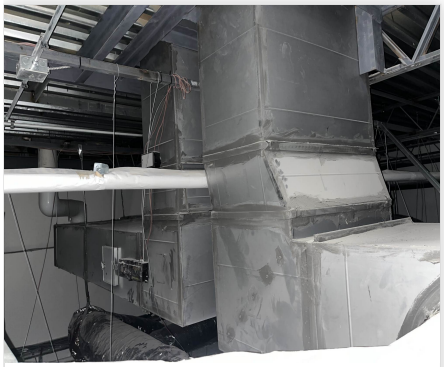
Status : Open

Priority : High

Asset Tag :

Originated Date : 05/20/2025 - Dale Wheeler - National TAB

Project Issue File Details



05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : RTU1 / Location & Orientation

Description : RTU1 rooftop location and orientation is different then shown on prints.

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

Status : Open

Priority : Low

Asset Tag :

Originated Date : 05/19/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/19/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : RTU1 / SGRD14 Damper

Description : RTU1 SGRD14 damper is broke and supply grill is unable to be balanced to design CFM.

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

Status : Open

Priority : High

Asset Tag :

Originated Date : 05/20/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : RTU1 / SGRD3 & SGRD7

Description : Dampers for sgrd3 & sgrd7 are not operational and are unable to close down to allow supply grills to be within design CFM.

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 05/21/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/22/2025

05/21/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : RTU1 / SGRD8 No Damper

Description : RTU1 sgrd8 damper is not installed causing supply grill to be high of design cfm & causing sgrd11 to be low of design cfm.

Created By : National TAB

Assigned To : National TAB - Dale Wheeler

Status : Open

Priority : Medium

Asset Tag :

Originated Date : 05/21/2025 - Dale Wheeler - National TAB

Project Issue File Details

05/21/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

Project Issue Information

Issue Name : RTU2 / Humidity Sensor
Description : RTU2 humidity sensor is not installed.

Created By :	National TAB	**Assigned To :**	National TAB - Dale Wheeler
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	05/20/2025 - Dale Wheeler - National TAB		

Project Issue File Details

05/20/2025

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-1X	KITCHEN	3500	3841	3150	3470	350	371	10.0%	9.7%						
RTU-2X	DINING	3800	3915	3040	3083	760	832	20.0%	21.3%						
MUA-1	HOOD MUA									1715	1765				
KF-1	HOOD											2117	2227		
CEF-1	WOMENS RR													125	91
CEF-2	MENS RR													125	154
TOTALS		7300	7756	6190	6553	1110	1203			1715	1765	2117	2227	250	245

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2825	2968
TOTAL EXHAUST	2367	2472
NET AIRFLOW	458	496

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.003
SIDE	
REAR	
AVERAGE	**0.003**

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:

CheckList List

- FIV - EF'S
- FIV - HOODS
- FIV - HVAC DUCTWORK
- FIV - MUA
- FIV - RTU'S
- FPT - BUILDING PRESSURE AND HOOD CONTAINMENT
- FPT - KEF'S
- FPT - MUA
- FPT - RTU's

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FIV - EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/19/2025 - Dale Wheeler - National TAB		

CheckList Item Details

Unit Tag matches the design and submittal MFG and Model	Pass
Comment:	
Each exhaust fan is proper tagged for proper identification with tags sized and placed on the fan for visual ease	Fail
Comment:	
Fans are installed in the correct location and orientation	Fail
Comment: KEF1 IS LOCATED IN A DIFFERENT LOCATION THEN SHOWN ON PLANS	
All packing, material and debris has been removed from the blower/wheel housing and the motor compartment	Pass
Comment:	
Fan wheels turn easily by hand (turn power off prior to testing)	Pass
Comment:	
Fans grease duct curb top plate is properly transitioned to the fan inlet and flush on top of the curb, sealed to the fan base to prevent leakage	Pass
Comment:	

Exhaust fans have external disconnects and are connected to allow full hinging of each exhaust fan	Pass
Comment:	

Fan is properly hinged and supported when hinged fully back for grease duct access (for Halton fans, ensure the base mounted disconnect is not hitting the fan base/curb when fully hinged back)	Pass
Comment:	

Grease cups are properly installed and connected to the fan base grease drain to prevent spilling outside of the grease cup	Pass
Comment:	

Exhaust fans are located 5ft from parapet wall and 10ft from any fresh air intake.	Pass
Comment:	

Notes/Comments :

N/A

Date :05/19/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FIV - HOODS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/20/2025 - Dale Wheeler - National TAB		

CheckList Item Details

HOOD INSTALLATION DETAILS

Kitchen hoods tags match design and submitted information	Fail
Comment: PLANS CALL FOR AN ECON-AIR WITH MODEL NUMBER: 6030 EX-2-ACPSP-F CAPTIVEAIRE HOOD IS INSTALLED WITH MODEL NUMBER: 6030 - ND2	
Kitchen hoods are hung Level using 1/2" threaded rod	Pass
Comment:	
Kitchen hoods are supported using beam clamps and/or Unistrut per required structural and local AHJ requirements	Pass
Comment:	
Kitchen hoods are hung level front to back and side to side	Pass
Comment:	
Kitchen hoods are hung at 80" AFF	Pass
Comment:	
Kitchen Hoods are flush against the wall along the bottom and each of it's side walls.	Pass

Comment:

Caulk is applied (less than 1/8" thick) from the hood against all wall surfaces or between connecting side to side hoods to prevent grease accumulation inside any crevice.	Pass

Comment:

There are no penetrations into the hood canopy other than fire system nozzles	Pass

Comment:

The hood is in "As New" condition with no visible damage, rust, pitting, or other blemishes	Pass

Comment:

All protective film has been peeled away from the wall or other areas of impingement to assure it can be easily and fully removed prior to cleaning.	Pass

Comment:

HOOD ACCESSORIES

End panels are installed	Fail

Comment:

HOOD END PANEL IS NOT INSTALLED

Hood filters are installed	Pass

Comment:

Grease cups are installed	Pass

Comment:

Ceiling Wrappers are installed and the ceiling grid is fixed to the top of the ceiling wrappers	Pass

Comment:

Hood control panel has been identified and is located as per plan, is accessible, and contains all components and temperature sensors to meet local interlock (normal and abnormal conditions) and heat auto on/off functionality.	Pass

Comment:

Notes/Comments :

N/A

Date :05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FIV - HVAC DUCTWORK	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/22/2025 - Dale Wheeler - National TAB		

CheckList Item Details

KVS - GREASE DUCT (HOOD SYSTEM)

Grease duct is sized and routed per plan	Fail
Comment: GREASE DUCT IS ROUTED DIFFERENT THEN SHOWN ON PLANS	
Grease duct is properly supported	Pass
Comment:	
Grease duct has code required negative pitch from fan inlet back to the hood riser connection	Pass
Comment:	
Grease duct has required clean-out doors installed, labeled, and accessible for removal/cleaning. Doors are located as required by code	N/A
Comment: CANNOT VISUALLY SEE ANY GREASE DOORS INSTALLED ON GREASE DUCT DUE TO VERY LIMITED SPACE ABOVE CELING GRID	
Grease duct clean-out doors are secured using tool less fasteners and seal fully when hand tightened	N/A
Comment: CANNOT VISUALLY SEE ANY GREASE DOORS INSTALLED ON GREASE DUCT DUE TO VERY LIMITED SPACE ABOVE CELING GRID	

Grease duct is centered in the curb and transitions as required to ensure the fan inlet is fully covered by the grease duct opening. Duct top plate flanges to the edges of the curb and is secured and flat so that the fan sits flush and square.	Pass
Comment:	
Grease duct is wrapped if welded duct, or is double wall round duct?	Pass
Comment:	
KVS - MUA DUCT (HOOD SYSTEM)	
MUA duct is routed and sized as per plan	N/A
Comment: CANNOT PHYSICALLY GAIN ACCESS TO THE MAU DUCTWORK TO VERIFY CORRECT DUCTWORK SIZE WAS INSTALLED DUE TO VERY LIMITED SPACE ABOVE CELING GRID	
MUA duct is properly supported	Pass
Comment:	
MUA duct seams are sealed air tight using proper sealant and application for SMACNA pressure rating of duct systems	Yes
Comment:	
MUA duct is externally insulated and taped to prevent vapor barrier from being breached	Fail
Comment:	
MUA duct drop box and transitions are done to encourage laminar flow and avoid restrictions	Pass
Comment:	
Branch take-off's have accessible dampers exposed for the TAB team to adjust each line as necessary	Pass
Comment:	
Flex duct (if used) is supported and straight with no more than one (1) hard 90 degree elbow and less than 5ft in total length	Pass
Comment:	
Connection to the hood MUA plenum is secured and foil taped to prevent air leakage	Fail

Comment:	
RESTROOM DUCT	
Restroom duct is routed and sized per plan	Pass
Comment:	
Restroom duct is properly supported	Pass
Comment:	
Duct seams are sealed	Yes
Comment:	
Dampers are accessible to TAB team for balancing	N/A
Comment: CEILING MOUNTED FANS ARE INSTALLED FOR BOTH RESTROOMS	
Flex duct (if used) is supported and straight with no more than one (1) hard 90 degree elbow and less than 5ft in total length	Pass
Comment:	
Duct is secured to exhaust register	N/A
Comment: CEILING MOUNTED FANS ARE INSTALLED FOR BOTH RESTROOMS	
Gravity damper is installed, opens and closes freely, and is sealed to prevent air leakage	Pass
Comment: CEILING MOUNTED FANS INSTALLED GRAVITY DAMPER CANNOT BE ACCESSED, FANS ARE EXHAUSTING DESIGN AMOUNT OF CFM.	
Duct to curb transition is centered and sized to ensure it covers the entire fan inlet. Curb top plate is flush and secured to the ends of the curb.	N/A
Comment: CEILING MOUNTED FANS ARE INSTALLED FOR BOTH RESTROOMS	
HVAC DUCT	
Kitchen and Dining room duct is routed and sized as per plan	Fail

Comment:

NO / RTU1 DUCTWORK IS NOT ROUTED PER PLANS DUE TO UNIT NOT BEING LOCATED IN THE CORRECT LOCATION ON THE ROOFTOP. YES / RTU2

Ducts are properly supported	Pass

Comment:

Ductwork is externally insulated	No

Comment:

RTU1 DUCT IS NOT EXTERNALLY INSULATED

Duct seams are sealed air tight using proper sealant and application for SMACNA pressure rating of duct systems	Pass

Comment:

YES / RTU1 & RTU2

Ducts are securely insulated as per specificatins and foil taped to prevent air barrier from being breached	Pass

Comment:

Takeoffs are installed to serve required terminal diffusers and are equipped with accessible dampers for TAB team access and can be opened or closed fully with no impingements	Pass

Comment:

Flex duct (if used) is supported and straight with no more than one (1) hard 90 degree elbow and less than 5ft in total length	Pass

Comment:

Takeoff to diffuser is installed securely to prevent slippage and air leakage	Pass

Comment:

All diffuser neck or opening sizes are installed as planned	Pass

Comment:

Supply and Return duct transitions to top of RTU curb, sized to full width and length of opening and is flashed fully to the sides of the curb.	Pass

Comment:

Notes/Comments :

N/A

Date :05/22/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FIV - MUA	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/19/2025 - Dale Wheeler - National TAB		

CheckList Item Details

MUA Tag information matches design and submittal criteria	Pass
Comment:	
MUA Fan has a permanent tag for identification located on the unit located and sized for visual ease	Fail
Comment:	
MUA is installed in the proper location and orientation	Pass
Comment:	
MUA intake is a minimum 10ft from any exhaust, roof vent or dirty air source	Pass
Comment:	
Blower compartment and internal heater area is free of packing material, debris, and dirt	Pass
Comment:	
Blower wheel turns freely by hand (turn power off prior to testing)	Pass
Comment:	
All MUA compartment and control doors are fully accessible, minimum 36" clearance for service allowing the doors to fully open without restriction	Pass

Comment:

MUA Electrical disconnect is external to the unit and properly wired	Pass

Comment:

Outdoor air awning is installed and fitted with proper OA mesh filters	N/A

Comment:

Condensate drain is installed (for cooling MUA's) with proper traps, clean-outs, and drain away from the unit to an acceptable roof drain	Pass

Comment:

Refrigeration line sets are installed and connected properly with adequate supports per specifications	N/A

Comment:

Condenser is installed away from any grease producing exhaust fans and located as per roof plan	Pass

Comment:

Condenser's electrical disconnect is external to the unit and properly wired (if applicable)	N/A

Comment:

DOAS UNIT IS INSTALLED

Condenser hail guards are installed (if applicable)	N/A

Comment:

DOAS UNIT IS INSTALLED

All Condenser compartment and control doors are fully accessible, minimum 36" clearance for service allowing the doors to fully open without restriction (if applicable)	

Comment:

Gas line is installed per specification and properly supported	Pass

Comment:

Gas line is installed per specification and properly supported and contains maintenance shut-off valve, trap, and regulator (if line pressure requires it). MUA is equipped with inlet gas pressure gauge to validate incoming gas pressure is suitable	Pass

Comment:

Notes/Comments :

N/A

Date :05/19/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FIV - RTU'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/20/2025 - Dale Wheeler - National TAB		

CheckList Item Details

RTU IDENTIFICATION, ORIENTATION & LOCATION	
Each RTU is tagged for proper identification with tags sized and placed on the fan for visual ease	Pass
Comment:	
Identify and ensure the RTU label information and size is correct	Pass
Comment:	
Ensure proper location of unit	Fail
Comment:	
Ensure orientation of curb & RTU is per plan	Fail
Comment:	
Ensure Packing in the blower compartment has been removed	Pass
Comment:	
RTU - INSTALLATION DETAILS	
With disconnect switch "off" spin the indoor and outdoor fan wheel's by hand and ensure they spin freely	Pass

Comment:

Ensure Roof Curb is fully flashed by roofing material and secured and curb is level	Pass

Comment:

Inspect the interior of the supply heat exchange compartment and return air compartment - validate that the duct is flashed and sealed to the top of the curb to prevent leakage or short cycling	Pass

Comment:

Hail guards installed on outdoor condenser coils	Pass

Comment:

RTU - ACCESSORIES

Power connected & disconnect installed	Pass

Comment:

Gas line connected per specification (size, painting, supports, shut-off valves, traps)	Pass

Comment:

RTU1 & RTU2 SHUTOFF VALVES ARE IN THE OFF POSITION

OA hood & filters installed	Pass

Comment:

Economizer wired to control board	Pass

Comment:

Evaporator coil filters are properly installed with specified MERV rating	Fail

Comment:

RTU1 & RTU2 IS DO NOT ALL EVAP COIL FILTERS INSTALLED ARE MERV RATED

Economizer damper is installed properly	Pass

Comment:

Economizer OA temperature / enthalpy sensors installed and wired	Pass

Comment:

Thermostat and humidity (if applicable) control wires wired to RTU terminals	Fail

Comment:

YES / RTU1 HAS A WIRESLESS TEMP & HUMIDITY SENSOR INSTALLED. NO / RTU2 ONLY HAS A TEMP. SENSOR INSTALLED. HUMIDITY SENSORS NEEDS TO BE INSTALLED.

Condensate drain installed per specification	Pass

Comment:

RTU1 & RTU2 CONDENSATE TRAP IS INSTALLED, PRINTS DO NOT GIVE SIZE OR DETAIL ON TRAPS AND LINE

Condensate line drains away from unit to a approved roof drain	N/A

Comment:

RTU1 & RTU2 CONDENSATE TRAP IS INSTALLED, PRINTS DO NOT GIVE SIZE OR DETAIL ON TRAPS AND LINE

Belts are tight?	N/A

Comment:

Pulleys aligned?	N/A

Comment:

MERV rated filters are installed and are clean?	Fail

Comment:

Notes/Comments :

N/A

Date :05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FPT - BUILDING PRESSURE AND HOOD CONTAINMENT	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/22/2025 - Brianna Biggs - National TAB		
Completed Date :	05/22/2025 - Dale Wheeler - National TAB		

CheckList Item Details

FINAL TESTS	
HOOD CAPTURE TEST	
List equipment turned on for testing	
Comment:	
STOVE, GRIDDLE, FRYER, OVEN	
List smoke candle type used	
Comment:	
COOKING SMOKE OPEN LOCATION	
Smoke test capture - Perimeter of hood (%)	
Comment:	
100%	
Smoke test capture - Top of cooking surface (%)	
Comment:	
100%	
WITNESS	
Date test was completed	05/21/2025

Comment:

05/21/25

TAB tech name / Firm

Comment:

DALE WHEELER / NTAB

Site super name / Firm

Comment:

N/A OPEN LOCATION COOKING SMOKE WAS OBSERVED AND FILMED

Owner representative name / Firm (if Applicable)

Comment:

N/A

BUILDING PRESSURE

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

Comment:

FRONT DOOR +0.003''

Notes/Comments :

N/A

Date :05/22/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FPT - KEF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/20/2025 - Dale Wheeler - National TAB		

CheckList Item Details

Exhaust fans wheel rotation is correct	Pass
Comment:	
TAB firm has balanced the exhaust fans to proper design levels	Pass
Comment:	
All motor and electrical readings are below the full load rating of each fan	Pass
Comment:	
Exhaust Fans do not have any unusual noise or vibration while operating	Pass
Comment:	
Smoke and Grease from exhaust fans appear to properly elevate above the parapet wall and off the roof.	Pass
Comment:	
Hoods have been started up by the manufacturers rep?	N/A
Comment:	
Hoods free of alarms?	Pass

Comment:

Exhaust fans modulate to high speed when kitchen equipment is on and at cooking temperatures? If not, adjust modulation/offset down.	Pass

Comment:

MAX AIR WAS DELETED FROM MAIN MENU TO ALLOW FAN TO RUN AT 45.2HZ AT ALL TIMES AND TO MAINTAIN PROPER BUILDING PRESSURE.

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FPT - MUA	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/20/2025 - Dale Wheeler - National TAB		

CheckList Item Details

TAB firm has balanced the MUA to within proper design limits	Pass
Comment:	
Blower wheel rotation is correct	Pass
Comment:	
MUA does not have any unusual noise or vibration while operating	Pass
Comment:	
Motor and electrical measurements are below the full load rating	Pass
Comment:	
Startup has been completed by the manufacturers rep?	N/A
Comment:	
Heater tested and is functional?	Fail
Comment: UNABLE TO TEST HEATER DUE TO GAS LEAK AT PIPE AND UNIT.	
Cooling is tested and is functional?	Yes

Comment:

Notes/Comments :

N/A

Date :05/20/2025

05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

CheckList Information

Name :	FPT - RTU's	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/09/2025 - Tara Metcalf - National TAB		
Completed Date :	05/22/2025 - Dale Wheeler - National TAB		

CheckList Item Details

THERMOSTAT PROGRAMMING AND CALIBRATION

Time is correct on the thermostats	Pass
Comment:	
Occupied Time = 7:30 AM	Pass
Comment:	
Occupied Heat setpoint = 68	Pass
Comment:	
Occupied Cooling setpoint = 72	Pass
Comment:	
Dehumidification Setpoint = 55%	Fail
Comment:	
RTU1 SET TO 55% RTU2 / HUMIDITY SESOR IS NOT INSTALLED	
Occupied Fan = On	Pass
Comment:	

Unoccupied Time = 12:00AM	Pass

Comment:

THERMOSTATS WOULD ONLY ALLOW UNOCCUPIED TO BE SET AT 11:30PM AT LATEST FOR RTU1 & RTU2

Unoccupied Heat setpoint = 60	Pass

Comment:

Occupied Cooling setpoint = 80	Pass

Comment:

Unoccupied Fan = Auto	Fail

Comment:

RTU1 & RTU2 THERMOSTATS DO NOT GIVE THE OPTION ON THE SCHEDULE FOR FANS TO GO TO AUTO IN UNOCCUPIED MODE

Actual measured temperature is within +/-1 degree of temperature displayed on thermostat. If not calibrate the sensor	Pass

Comment:

RTU1 69F THERMOSTAT / 68.8F FIELD PIECE RTU2 72F THERMOSTAT / 71.5F FIELD PIECE

Actual measured RH is within +/-3 % of displayed RH at RTU or thermostat. If not calibrate the sensor	Pass

Comment:

NO / RTU2 DOES NOT HAVE A HUMIDITY SENSOR INSTALLED YES / RTU1

CONTROL WIRING VALIDATION

Economizer Dry Bulb sensor wired	Pass

Comment:

Economizer Dry Bulb sensor operational	Pass

Comment:

OCP/OCC terminal wired correctly	N/A

Comment:

RTU1 & RTU2 OA DAMPERS ARE WIRED AND OPERATIONAL

Thermostat Wired correctly (R,C,Y1,Y2,W1,W2)	Pass

Comment:

Humidity Sensor Wired correctly	Fail

Comment:

YES / RTU1 HUMIDITY SENSOR IS WIRELESS AND OPERATING WITH THERMOSTAT NO / RTU2 HUMIDITY SENSOR IS NOT INSTALLED

CALIBRATION & PROGRAMMING

RTU OA DB StPt, Reading Accuracy (+/- 2 degrees / 10 minute time to calibrate to actual reading)	N/A

Comment:

N/A / RTU1 OA DB STPT. SETPOINT IS NOT LISTED IN THE TRANE CONTROL BOARD. TEMP. WAS TAKEN AT THE OA INTAKE WITH FIELD PIECE. TEMP. MEASURED WAS 88F / 76.4% N/A / RTU2 OA DB STPT. SETPOINT IS NOT LISTED IN THE TRANE CONTROL BOARD. TEMP. WAS TAKEN AT THE OA INTAKE WITH FIELD PIECE. TEMP. MEASURED WAS 87F / 73.7%

RTU MAT StPt, Reading Accuracy (+/- 2 degrees / 10 minute time to calibrate to actual reading)	N/A

Comment:

N/A / TRANE UNITS DO NOT GIVE MAT ST READING ON CONTROL BOARD

RTU MAT Low StPt

Comment:

N/A / TRANE UNITS DO NOT GIVE SETPOINT ON CONTROL BOARD

RTU Low T Lockout

Comment:

N/A / TRANE UNITS DO NOT GIVE SETPOINT ON CONTROL BOARD

Economizer set to 28 BTU/lb enthalpy setpoint.	Pass

Comment:

YES / RTU1 & RTU2

Temperature tests

Outside air temperature / humidity

Comment:

RTU1 88F / 76.4% RTU2 87F / 73.7%

Full cooling LAT/H

Comment:

RTU1 88F / 76.4% RTU2 87F / 73.7%

Full heating LAT/H

Comment:

RTU1 & RTU2 HEATING MODE COULD NOT BE TESTED DUE TO STORE BEING AN OPEN LOCATION & OUTSIDE AIR TEMP. BEING 87F AND ABOVE.

OUTDOOR AIR / RELIEF DAMPER

If power exhaust installed, set point is higher than the OA damper setpoint	N/A

Comment:

If power exhaust installed, open the OA damper above the power exhaust setpoint and ensure that the power exhaust turns on	N/A

Comment:

If relief damper is installed, ensure that it is installed properly and can open freely.	Pass

Comment:

OCCUPANCY VALIDATION

Place the thermostat in "unoccupied" - Does the OA damper close fully	N/A

Comment:

THERMOSTATS DO NOT GIVE THE OPTION TO PLACE STORE INTO UNOCCUPIED MODE

Stage cooling and Heating in "unoccupied" - Does the unit properly stage and does the OA damper remain closed	N/A

Comment:

THERMOSTATS DO NOT GIVE THE OPTION TO PLACE STORE INTO UNOCCUPIED MODE

Place the thermostat in "Occupied" - Does the OA damper open to the TAB preset minimum position in High speed	Pass

Comment:

Place the thermostat in "Occupied" - Does the OA damper open to the TAB preset minimum position in Low speed (if applicable)	N/A

Comment:

RTU1 & RTU2 RUN IN HIGH SPEED AT ALL TIMES

Notes/Comments :

N/A

Date :05/22/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: AHU/RTU

Asset: RTUX1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	243612057L
Model Num	YHJ	YHJ120A3S0M07H0E0A
Type	RTUX	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	15"X36"
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	4.0	3.0
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
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	3500	3841
SF RPM	-	DD / 68%
RA CFM	3150	3470
OA CFM	350	371
RL Voltage	-	211/210/210
RL Amperage	-	3.4/3.4/3.5
SF Rotation	-	CW
SF System SetPt	-	68%
RA Damper Position	-	83%
Min OA Damper Position	-	17%
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.274"
Fan Suction SP	-	-0.819"
Fan Discharge SP	-	0.596"
Total ESP	1.00"	0.87"
Fan Total SP	-	1.415"

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

Completed By: Dale Wheeler on 05/22/2025

Notes:
[1] SGRD8 DAMPER IS NOT INSTALLED UNABLE TO BALANCE GRILL TO DESIGN CFM CAUSING SGRD11 TO BE LOW OF DESIGN.
[2] SGRD7 & SGRD3 DAMPERS PULL CORES ARE NOT OPERATIONAL AND WILL NOT ALLOW DAMPERS TO BE CLOSED FAR ENOUGH FOR GRILLS TO ACHIEVE DESIGN CFM.

Written By: Dale Wheeler on 05/22/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project:05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

AHU/RTU

Diffuser Supply (GRD)

RTUX1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	MUA	ACPSP	140X12	854	0.76	944	876	820	96.0
SGRD2	KITCHEN	D	8"	200	1	374	210	215	107.5
SGRD3	KITCHEN	D	8"	200	1	470	396	406	203.0
SGRD4	KITCHEN	D	8"	200	1	285	211	214	107.0
SGRD5	KITCHEN	D	8"	200	1	465	193	195	97.5
SGRD6	KITCHEN	D	8"	200	1	351	195	206	103.0
SGRD7	KITCHEN	D	8"	200	1	299	226	247	123.5
SGRD8	KITCHEN	A	12"	450	1	622	521	589	130.9
SGRD9	KITCHEN	A	8"	150	1	183	144	159	106.0
SGRD10	KITCHEN	A	8"	450	1	413	431	476	105.8
SGRD11	KITCHEN	A	10"	400	1	340	295	314	78.5
Total				3504		4746	3698	3841	109.62%

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: AHU/RTU

Asset: RTUX2 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	243612044L
Model Num	YHJ	YHJ120A3S0M07H0E
Type	RTUX	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X15
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	4.0	3.0
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
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	3800	3915
SF RPM	-	DD / 78%
RA CFM	3040	3083
OA CFM	760	832
RL Voltage	-	213/214/213
RL Amperage	-	4.9/4.8/4.8
SF Rotation	-	CW
SF System SetPt	-	78%
RA Damper Position	-	68%
Min OA Damper Position	-	32%
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.456"
Fan Suction SP	-	-0.953"
Fan Discharge SP	-	0.946"
Total ESP	1.00"	1.402"
Fan Total SP	-	1.899"

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

Completed By: Dale Wheeler on 05/20/2025

Notes:
[1] SGRD14 DAMPER IS BROKE GRILL IS UNABLE TO BE BALANCED TO DESIGN CFM.

Written By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

Diffuser Supply (GRD)

RTUX2/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	E	20"	350	1	314	387	363	103.7
SGRD2	DINING	E	20"	350	1	399	301	378	108.0
SGRD3	DINING	E	20"	350	1	282	315	342	97.7
SGRD4	DINING	E	20"	350	1	341	299	352	100.6
SGRD5	DINING	E	20"	350	1	215	309	364	104.0
SGRD6	DINING	E	20"	350	1	362	281	337	96.3
SGRD7	DINING	E	20"	350	1	378	314	336	96.0
SGRD8	DINING	E	20"	350	1	385	331	359	102.6
SGRD9	DINING	E	20"	350	1	312	292	365	104.3
SGRD10	DINING	E	20"	350	1	416	297	368	105.1
SGRD11	DINING	B	20"	100	1	78	94	110	110.0
SGRD12	DINING	B	20"	50	1	69	57	52	104.0
SGRD13	DINING	B	6"	100	1	117	112	90	90.0
SGRD14	DINING	B	6"	50	1	92	96	99	198.0
Total				3800		3760	3485	3915	103.03%

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Exhaust

Asset: CEF1 AREA:MENS RR

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-A250	SP-A250-QD
Serial Num	-	25873392
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	1/30
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.56
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	125	91
Fan RPM	-	1000 / DD
Fan Rotation	-	CW
Motor RPM	-	1000 / DD
System SetPt	-	HIGH
RL Voltage	-	119
RL Amperage	-	0.44
Total ESP	0.30"	N/R
Fan Inlet SP	-	N/R
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler on 05/20/2025

Notes:
[1] CEF1 IS LOW OF DESIGN CFM. UNABLE TO ACCESS BACKDRAFT DAMPER TO VERIFY IT IS FUNCTIONING PROPERLY. FAN DOES NOT HAVE A SPEED CONTROLLER INSTLLED, IS RUNNING IN HIGH SPEED, AND IS LOW OF DESIGN CFM.

Written By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Exhaust

Asset: CEF2 AREA:WOMENS RR

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-A250	SP-A250-QD
Serial Num	-	25873404
Type	CEILINNG	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	1/30
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.56
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	125	154
Fan RPM	-	DD / 1000
Fan Rotation	-	CW
Motor RPM	-	DD / 1000
System SetPt	-	HIGH
RL Voltage	-	121
RL Amperage	-	0.50
Total ESP	0.30"	N/R
Fan Inlet SP	-	N/R
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:HOOD EXHAUST FAN

Unit Data		
	Design	**Actual**
MFG	ECON-AIR	CAPTIVEAIRE
Model Num	EADU85H	DU85HFA
Serial Num	-	7169534
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO
Frame	-	N/L
Horsepower	1.000	1.0
Motor Rpm	1479	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	2117	2227
Fan RPM	-	DD / 1800
Fan Rotation	-	CCW
Motor RPM	-	DD / 1800
System SetPt	-	78%
RL Voltage	-	123
RL Amperage	-	8.9
Total ESP	1.000"	0.673"
Fan Inlet SP	-	-0.673"
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Supply

Asset: MUA1 AREA:HOOD MUA

Unit Data		
	Design	**Actual**
MFG	ECON-AIR	ECON-AIR
Model Num	EARTU1-I.200-15-5T-MPU	EARTU-I-.200-15-5T-MPU
Serial Num	-	7169534
Type	MUA	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	145T
Horsepower	2.00	2.0
Motor Rpm	-	1745
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.1
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	[1]
Flame Status (pass/fail)	-	[1]
Inlet Air Temp SetPt	-	50
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.228"

Test Data		
	Design	**Actual**
CFM	1715	1765
SF RPM	-	DD / 1745
Motor RPM	-	DD / 1745
SF System SetPt	-	45.2 HZ.
RL Voltage	-	116/116/115
RL Amperage	-	3.6/3.7/3.6
Total ESP	-	N/R
Fan Discharge SP	-	N/R

General	
	Actual
Fan Rotation Correct	YES

Completed By: Dale Wheeler on 05/20/2025

Notes:
[1] HEATER CANNOT BE TESTED DUE TO GAS LINE LEAKING GAS AT PIPE CONNECTION TO THE UNIT. GAS VAVLE WAS IN THE OFF POSITION UPON ARRIVAL.

Written By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:KITCHEN HOOD

Unit Data		
	Design	**Actual**
MFG	ECON-AIR	CAPTIVEAIRE
Model Num	6030 EX-2-ACPSP-F	6030ND-2
Job / Serial Num	-	7169534
Type	TYPE I - LOW PROXIMITY	TYPE I HOOD
Hood length	127"	127"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	12"	12"
Supply Plenum Length	140"	140"

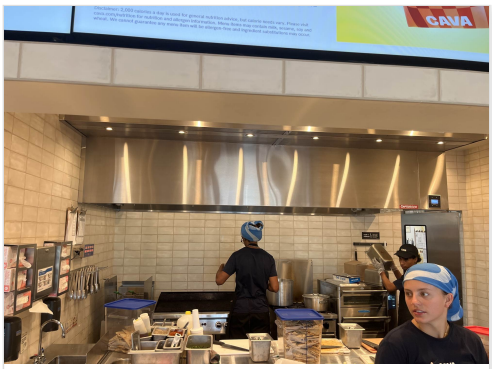
Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTERATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	7	7
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	14.56	14.56
Filter1 FPM	-	171
Filter2 FPM	-	152
Filter3 FPM	-	163
Filter4 FPM	-	163
Filter5 FPM	-	148
Filter6 FPM	-	146
Filter7 FPM	-	130
Filter Ave FPM(corr)	-	153
CFM	2117	2227

Cooking Equipment	
	Actual
Item 1	GRILL
Item 2	STOVE
Item 3	FRYER
Item 4	OVEN

Test Data Supply		
	Design	**Actual**
Total Area	11.66	11.66
Kv factor (Vel)	0.87"	0.87
Num of Readings	-	8
Reading1 FPM	-	211
Reading2 FPM	-	221
Reading3 FPM	-	206
Reading4 FPM	-	176
Reading5 FPM	-	147
Reading6 FPM	-	176
Reading7 FPM	-	105
Reading8 FPM	-	149
Ave FPM(corr)	-	174
CFM	1715	1765

Completed By: Dale Wheeler on 05/19/2025

Unit Data - PHOTO LOG



05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: AHU/RTU

Asset: RTUX1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	243612057L
Model Num	YHJ	YHJ120A3S0M07H0E0A
Type	RTUX	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	15"X36"
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	4.0	3.0
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
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	3500	3841
SF RPM	-	DD / 68%
RA CFM	3150	3470
OA CFM	350	371
RL Voltage	-	211/210/210
RL Amperage	-	3.4/3.4/3.5
SF Rotation	-	CW
SF System SetPt	-	68%
RA Damper Position	-	83%
Min OA Damper Position	-	17%
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.274"
Fan Suction SP	-	-0.819"
Fan Discharge SP	-	0.596"
Total ESP	1.00"	0.87"
Fan Total SP	-	1.415"

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

Completed By: Dale Wheeler on 05/22/2025

Notes:
[1] SGRD8 DAMPER IS NOT INSTALLED UNABLE TO BALANCE GRILL TO DESIGN CFM CAUSING SGRD11 TO BE LOW OF DESIGN.
[2] SGRD7 & SGRD3 DAMPERS PULL CORES ARE NOT OPERATIONAL AND WILL NOT ALLOW DAMPERS TO BE CLOSED FAR ENOUGH FOR GRILLS TO ACHIEVE DESIGN CFM.

Written By: Dale Wheeler on 05/22/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project:05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

AHU/RTU

Diffuser Supply (GRD)

RTUX1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	MUA	ACPSP	140X12	854	0.76	944	876	820	96.0
SGRD2	KITCHEN	D	8"	200	1	374	210	215	107.5
SGRD3	KITCHEN	D	8"	200	1	470	396	406	203.0
SGRD4	KITCHEN	D	8"	200	1	285	211	214	107.0
SGRD5	KITCHEN	D	8"	200	1	465	193	195	97.5
SGRD6	KITCHEN	D	8"	200	1	351	195	206	103.0
SGRD7	KITCHEN	D	8"	200	1	299	226	247	123.5
SGRD8	KITCHEN	A	12"	450	1	622	521	589	130.9
SGRD9	KITCHEN	A	8"	150	1	183	144	159	106.0
SGRD10	KITCHEN	A	8"	450	1	413	431	476	105.8
SGRD11	KITCHEN	A	10"	400	1	340	295	314	78.5
Total				3504		4746	3698	3841	109.62%

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: AHU/RTU

Asset: RTUX2 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	243612044L
Model Num	YHJ	YHJ120A3S0M07H0E
Type	RTUX	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X15
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	4.0	3.0
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
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	3800	3915
SF RPM	-	DD / 78%
RA CFM	3040	3083
OA CFM	760	832
RL Voltage	-	213/214/213
RL Amperage	-	4.9/4.8/4.8
SF Rotation	-	CW
SF System SetPt	-	78%
RA Damper Position	-	68%
Min OA Damper Position	-	32%
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.456"
Fan Suction SP	-	-0.953"
Fan Discharge SP	-	0.946"
Total ESP	1.00"	1.402"
Fan Total SP	-	1.899"

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

Completed By: Dale Wheeler on 05/20/2025

Notes:
[1] SGRD14 DAMPER IS BROKE GRILL IS UNABLE TO BE BALANCED TO DESIGN CFM.

Written By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

Diffuser Supply (GRD)

RTUX2/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	E	20"	350	1	314	387	363	103.7
SGRD2	DINING	E	20"	350	1	399	301	378	108.0
SGRD3	DINING	E	20"	350	1	282	315	342	97.7
SGRD4	DINING	E	20"	350	1	341	299	352	100.6
SGRD5	DINING	E	20"	350	1	215	309	364	104.0
SGRD6	DINING	E	20"	350	1	362	281	337	96.3
SGRD7	DINING	E	20"	350	1	378	314	336	96.0
SGRD8	DINING	E	20"	350	1	385	331	359	102.6
SGRD9	DINING	E	20"	350	1	312	292	365	104.3
SGRD10	DINING	E	20"	350	1	416	297	368	105.1
SGRD11	DINING	B	20"	100	1	78	94	110	110.0
SGRD12	DINING	B	20"	50	1	69	57	52	104.0
SGRD13	DINING	B	6"	100	1	117	112	90	90.0
SGRD14	DINING	B	6"	50	1	92	96	99	198.0
Total				3800		3760	3485	3915	103.03%

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Exhaust

Asset: CEF1 AREA:MENS RR

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-A250	SP-A250-QD
Serial Num	-	25873392
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	1/30
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.56
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	125	91
Fan RPM	-	1000 / DD
Fan Rotation	-	CW
Motor RPM	-	1000 / DD
System SetPt	-	HIGH
RL Voltage	-	119
RL Amperage	-	0.44
Total ESP	0.30"	N/R
Fan Inlet SP	-	N/R
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler on 05/20/2025

Notes:
[1] CEF1 IS LOW OF DESIGN CFM. UNABLE TO ACCESS BACKDRAFT DAMPER TO VERIFY IT IS FUNCTIONING PROPERLY. FAN DOES NOT HAVE A SPEED CONTROLLER INSTLLED, IS RUNNING IN HIGH SPEED, AND IS LOW OF DESIGN CFM.

Written By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Exhaust

Asset: CEF2 AREA:WOMENS RR

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-A250	SP-A250-QD
Serial Num	-	25873404
Type	CEILINNG	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	1/30
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.56
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	125	154
Fan RPM	-	DD / 1000
Fan Rotation	-	CW
Motor RPM	-	DD / 1000
System SetPt	-	HIGH
RL Voltage	-	121
RL Amperage	-	0.50
Total ESP	0.30"	N/R
Fan Inlet SP	-	N/R
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:HOOD EXHAUST FAN

Unit Data		
	Design	**Actual**
MFG	ECON-AIR	CAPTIVEAIRE
Model Num	EADU85H	DU85HFA
Serial Num	-	7169534
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO
Frame	-	N/L
Horsepower	1.000	1.0
Motor Rpm	1479	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	2117	2227
Fan RPM	-	DD / 1800
Fan Rotation	-	CCW
Motor RPM	-	DD / 1800
System SetPt	-	78%
RL Voltage	-	123
RL Amperage	-	8.9
Total ESP	1.000"	0.673"
Fan Inlet SP	-	-0.673"
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: FAN - Supply

Asset: MUA1 AREA:HOOD MUA

Unit Data		
	Design	**Actual**
MFG	ECON-AIR	ECON-AIR
Model Num	EARTU1-I.200-15-5T-MPU	EARTU-I-.200-15-5T-MPU
Serial Num	-	7169534
Type	MUA	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	145T
Horsepower	2.00	2.0
Motor Rpm	-	1745
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.1
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	[1]
Flame Status (pass/fail)	-	[1]
Inlet Air Temp SetPt	-	50
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.228"

Test Data		
	Design	**Actual**
CFM	1715	1765
SF RPM	-	DD / 1745
Motor RPM	-	DD / 1745
SF System SetPt	-	45.2 HZ.
RL Voltage	-	116/116/115
RL Amperage	-	3.6/3.7/3.6
Total ESP	-	N/R
Fan Discharge SP	-	N/R

General	
	Actual
Fan Rotation Correct	YES

Completed By: Dale Wheeler on 05/20/2025

Notes:
[1] HEATER CANNOT BE TESTED DUE TO GAS LINE LEAKING GAS AT PIPE CONNECTION TO THE UNIT. GAS VAVLE WAS IN THE OFF POSITION UPON ARRIVAL.

Written By: Dale Wheeler on 05/20/2025

Unit Data - PHOTO LOG

05/20/2025

National TAB

Project: 05-19-25 CAVA CHARLOTTE, NC (NORTHLAKE)

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:KITCHEN HOOD

Unit Data		
	Design	**Actual**
MFG	ECON-AIR	CAPTIVEAIRE
Model Num	6030 EX-2-ACPSP-F	6030ND-2
Job / Serial Num	-	7169534
Type	TYPE I - LOW PROXIMITY	TYPE I HOOD
Hood length	127"	127"
Hood Width	60"	60"
Supply Plenum Type	-	PSP
Supply Plenum Width	12"	12"
Supply Plenum Length	140"	140"

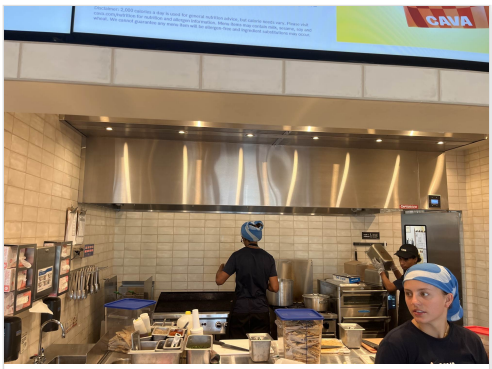
Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO FILTER	CAPTERATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	7	7
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	14.56	14.56
Filter1 FPM	-	171
Filter2 FPM	-	152
Filter3 FPM	-	163
Filter4 FPM	-	163
Filter5 FPM	-	148
Filter6 FPM	-	146
Filter7 FPM	-	130
Filter Ave FPM(corr)	-	153
CFM	2117	2227

Cooking Equipment	
	Actual
Item 1	GRILL
Item 2	STOVE
Item 3	FRYER
Item 4	OVEN

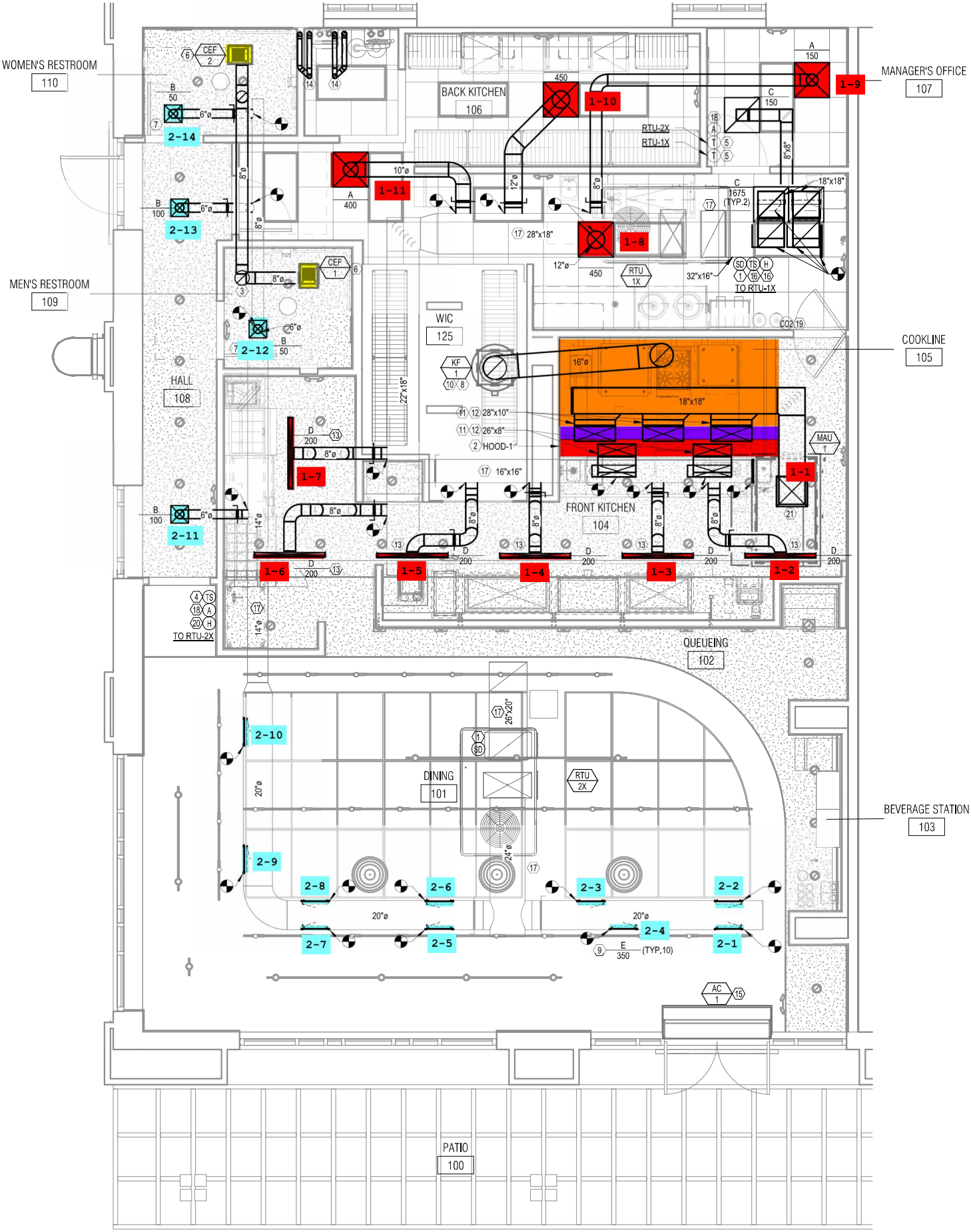
Test Data Supply		
	Design	**Actual**
Total Area	11.66	11.66
Kv factor (Vel)	0.87"	0.87
Num of Readings	-	8
Reading1 FPM	-	211
Reading2 FPM	-	221
Reading3 FPM	-	206
Reading4 FPM	-	176
Reading5 FPM	-	147
Reading6 FPM	-	176
Reading7 FPM	-	105
Reading8 FPM	-	149
Ave FPM(corr)	-	174
CFM	1715	1765

Completed By: Dale Wheeler on 05/19/2025

Unit Data - PHOTO LOG



05/20/2025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HALL
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BACK KITCHEN
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WIC
125
FRONT KITCHEN
104
QUEUEING
102
DINING
101
PATIO
100
MANAGER'S OFFICE
107
COOKLINE
105
BEVERAGE STATION
103
1-1
1-2
1-3
1-4
1-5
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1-7
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1-11
2-1
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