Report By:

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

NATIONAL TAB

Comfort. Under control.

Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 02/24/2023

PROJECT

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

770 WINFIELD DUN PKWY

SEVIERVILLE, TN 37876

Client

CHICK-FIL-A (CFA)
5200 BUFFINGTON ROAD

ATLANTA, GA 30349-2998

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

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.

Inspections and Commissioning Light
The HVAC equipment, ductwork, and other building assets were inspected per Chick Fil A requirements. The results of this inspection is included in checklists within the report. Operational tests were also performed on the HVAC controls to ensure occupied and unoccupied sequence of operation.

RTU's (Roof Top Units) w/ Diffusers
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU 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 (Halton)
Each kitchen exhaust fan was measured by taking static pressure at the exhaust plenum and comparing to OEM performance data. The total flow of the exhaust was then adjusted to tolerance of the engineer's design flow.

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 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.

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - AC1 / DAMPER LOCATION

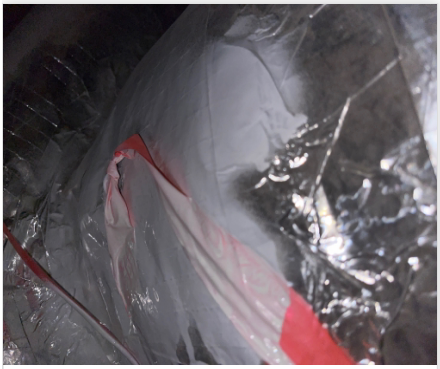
Description : AC1- SGRD10 DAMPER IS LOCATED AT THE 12 0'CLOCK POSITION PLANS CALL FOR SUPPLY DAMPERS TO BE LOCATED AT THE 9 0'CLOCK OR 3 O'CLOCK POSTION & AC1 EGRD8 RETURN DAMPER IS LOCATED AT THE 3 O'CLOCK POSITION PLANS CALL FOR DAMPER TO BE AT THE 6 O'CLOCK POSITION. RECOMMEND THESE DAMPERS BE RELOCATED TO THE CORRECT POSITION. PAGE: M-401 DETAIL: 2

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

Status : Open

Originated Date : 02/22/2023 - Dale Wheeler - National TAB

Project Issue File Details



SGRD10.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - AC1 / RETURN DUCT TYPE

Description : AC1 RETURN DUCT DOES NOT SPAN OUT TO 96'' IN WIDTH LIKE CALLED FOR IN PRINTS. RETURN DUCT WIDTH IS ONLY 80''. UNIT TOTAL IS WITHIN DESIGN. THREE SUPPLY GRILLS ARE LOW OF DESIGN CFM. UNIT PULLEY IS MINIMIZED AND UNIT IS RUNNING NEAR FLA. PAGE: M-201 DETAIL: 1

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details

AC1.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - AC1, AC2, AC3 / DAMPER TYPES

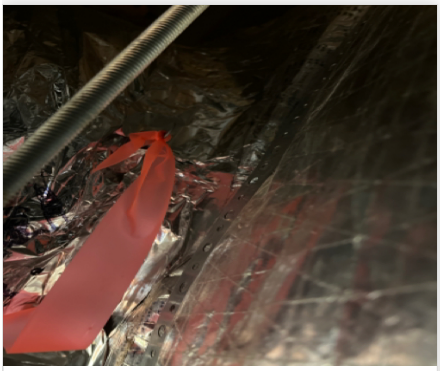
Description : AC1 - SGRD1,2,4,10,11,13 & EGRD5,6,9 DO NOT HAVE RUSKIN TYPE DAMPER HANDLES INSTALLED. AC2- EGRD2 & EGRD3 DO NOT HAVE RUSKIN TYPE DAMPER HANDLES INSTALLED. AC3- SGRD4 & SGRD5 DO NOT HAVE RUSKIN TYPE DAMPER HANDLES INSTALLED. RECOMMEND THE CORRECT TYPE DAMPER HANDLE TO BE INSTALLED.

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details



DAMPER.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - AC3 / RETURN DAMPER LOCATIONS

Description : AC3 - EGRD2 & EGRD3 DAMPERS ARE LOCATED AT THE 3 O'CLOCK POSITION SHOULD BE LOCATED AT THE 6 O'CLOCK POSITION. RECOMMEND DAMPER LOCATION BE MOVED TO THE CORRECT POSTION. PAGE: M-401 DETAIL: 2

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

Status : Open

Originated Date : 02/22/2023 - Dale Wheeler - National TAB

Project Issue File Details

DAMPERLOCATION.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - AC3 / SGRD14 DAMPER

Description : AC3 SGRD14 DAMPER IS NOT INSTALLED UNABLE TO BALANCE GRILL TO DESIGN CFM. RECOMMEND DAMPER BE INSTALLED. PAGE: M-201 DETAIL: 1

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

Status : Open

Originated Date : 02/22/2023 - Dale Wheeler - National TAB

Project Issue File Details

AC3.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - AC3 / TEMP. SENSOR COMMUNICATION

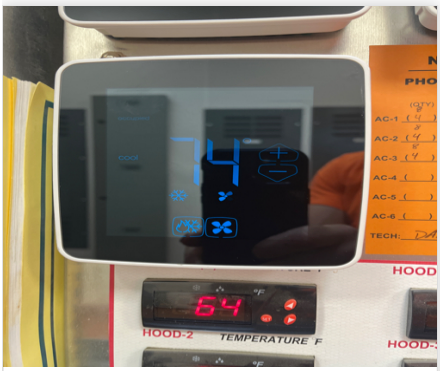
Description : AC3 TEMP. SENSOR IS NOT COMMUNICATING WITH THERMOSTAT. RECOMMEND THIS ISSUE BE FIXED ASAP. PAGE: M-501 DETAIL: 2

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

Status : Open

Originated Date : 02/23/2023 - Dale Wheeler - National TAB

Project Issue File Details



AC3.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - EF2 / UNOCCUPIED MODE

Description : EF2 DOES NOT TURN OFF WHEN STORE IS PLACED IN UNOCCUPIED MODE.

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

Status : Open

Originated Date : 02/23/2023 - Dale Wheeler - National TAB

Project Issue File Details

File.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL - EF3

Description : EF3 DUCTWORK IS NOT FLUSH WITH CURB. ABLE TO SEE INTO CEILING SPACE. DUCTWORK IS NOT LINED. BACK DRAFT DAMPER IS NOT INSTALLED. FAN IS NOT SECURED TO CURB. RECOMMEND ALL THESE ISSUES BE FIXED. PAGE: M-401 DETAIL: 4

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

EF3DUCTWORK.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : CRITICAL- AC3 / SGRD1 SUPPLY & RETURN GRILL

Description : AC3 SGRD1 SUPPLY GRILL AND RETURN GRILL IN VESTIBULE ARE FLIPPED. RECOMMEND THE CORRECT GRILL BE PLACED ON THE CORRECT DUCTWORK. PAGE: M-201 DETAIL: 1

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

Status : Open

Originated Date : 02/23/2023 - Dale Wheeler - National TAB

Project Issue File Details

SGRD1.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : REVIEW + RECTIFY - AC1, AC2, AC3 / TERMINALS NOT WIRED

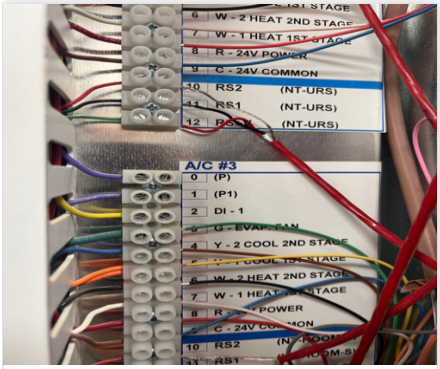
Description : AC1, AC2, AC3 TERMINALS P, P1, D1 ARE NOT WIRED. D1 WIRE NEEDS TO BE LANDED ON THE ESTOP TERMINAL IN EACH UNIT & TERMINAL WIRES FOR P & P1 NEED TO BE LANDED TO THE POTENTIOMETER MODULES IN EACH UNIT. RECOMMEND THESE TERMINALS BE WIRED AND LANDED TO THE CORRECT LOCATIONS ON EACH UNIT. PAGE: M-501 DETAIL: 2

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details



TERMINALS.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : REVIEW + RECTIFY - EF1 & EF2 / NOZZLES

Description : EF1 & EF2 NOZZELS ARE NOT INSTALLED. RECOMMEND THESE BE INSTALLED ASAP. PAGE: M-401 DETAIL: 3

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

LEF2NOZZLES.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : REVIEW + RECTIFY - EF1 DUCT DESIGN

Description : EF1 GREASE DUCT INSTALLED IS A DIFFERENT DESIGN THEN CALLED FOR IN PRINTS. RECOMMEND THE CORRECT DESIGN BE INSTALLED. PAGE: M-250 DETAIL: 1

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

Status : Open

Originated Date : 02/21/2023 - William Patton - National TAB

Project Issue File Details

EF1DUCT.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : REVIEW + RECTIFY - EF1 GREASE CLEANOUT DOOR SIZE

Description : EF1 ONE GREASE CLEANOUT DOOR INSTALLED IS A DIFFERENT SIZE THEN CALLED FOR IN PRINTS. RECOMMEND THE CORRECT SIZE CLEANOUT DOOR BE INSTALLED. PLANS CALL FOR GREASE CLEAN OUT DOOR TO BE 10”X16”. DOOR IS 8”X16” PAGE: M-250 DETAIL: 1

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

Status : Open

Originated Date : 02/21/2023 - William Patton - National TAB

Project Issue File Details

EF1CLEANOUTDOOR.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITIAL - AC1 & AC3 / HEAT EXCHANGER BAFFLES

Description : AC1 & AC3 HEAT EXCHANGER BAFFLES NEED TO BE PULLED OUT TO THE MESH GUARD.

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

BAFFLES.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1 / GFI NOT ENERGIZED

Description : AC1 GFI OUTLET IS NOT ENERGIZED. RECOMMEND THIS OUTLET BE POWERED. PAGE: M-401 NOTE: 11

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

GFI.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1 / RETURN DAMPERS FLUORESCENT FLAGS

Description : AC1 EGRD1,2,3,9 DAMPER HANDLES DO NOT HAVE FLUORESCENT FLAGS INSTALLED. RECOMMEND THESE HANDLES BE FLAGGED. PAGE: M-401 DETAIL: 2

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

Status : Open

Originated Date : 02/22/2023 - Dale Wheeler - National TAB

Project Issue File Details

DAMPERFLAG.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1 / UNIT ACCESS DOOR OBSTRUCTION

Description : AC1 ELECTRICAL PANEL AND FILTER ACCESS DOOR ARE OBSTRUCTED BY GAS PIPE PAGE: P-250 NOTE: 1

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

AC1.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1, AC2, AC3 / INNER CORE NOT TAPED

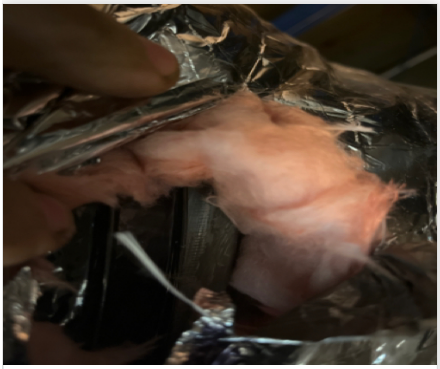
Description : AC1, AC2, AC3 FLEX INNER CORE IS BANDED BUT NOT ALSO TAPED. RECOMMEND TAPE BE ADDED TO SECURE INNER FLEX CORE. PAGE: M-901 NOTE: N

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details



NOTAPE.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1, AC2, AC3 / SENSOR LABELS

Description : AC1, AC2, AC3 LABLES NEED TO BE INSTALLED ON ALL HUMIDITY AND TEMP. SENSORS. RECOMMEND ALL SENSORS BE LABELED. PAGE: M-501 NOTE: 4

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details

LABLES.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1, AC2, AC3 / STICK PINS

Description : AC1, AC2, AC3 STICK PINS ARE NOT INSTALLED ON DUCTWORK 24'' OR WIDER. RECOMMEND STICK PINS BE INSTALLED. PAGE:M-901 NOTE: R

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC1, AC2, AC3 / TORNADO CLIPS

Description : AC1, AC2, AC3 TORNADO CLIPS NEED TO BE SECURED ON ALL UNITS.

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

HURRICANECLIPS.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC3 / EVAP COIL

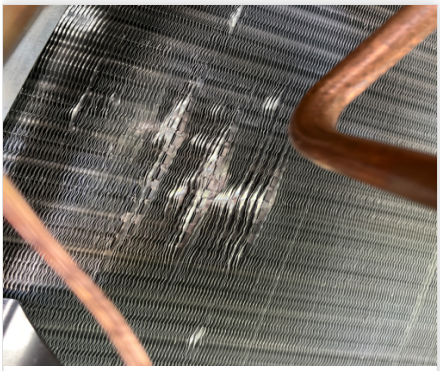
Description : AC3 HAS SOME DAMAGE TO THE EVAP COIL. PAGE: M-901 NOTE: D

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details



EVAP.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - AC3 / RETURN DUCT STYLE

Description : AC3 RETURN DUCT DROP INSTALLED IS A DIFFERENT DESIGN THEN WHAT IS CALLED FOR IN PRINTS. UNIT TOTAL IS WITHIN DESIGN CFM. PAGE: M-201 DETAIL: 1

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

Status : Open

Originated Date : 02/22/2023 - Dale Wheeler - National TAB

Project Issue File Details

AC3.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - EF1 & EF2 / DRIP GUARD

Description : EF1 & EF2 DRIP GUARDS NEED ARE NOT INSTALLED RECOMMEND THESE BE INSTALLED ASAP. PAGE: 401 DETAIL: 3

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

EF2DRIPGUARD.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - EF1 CURB CAP

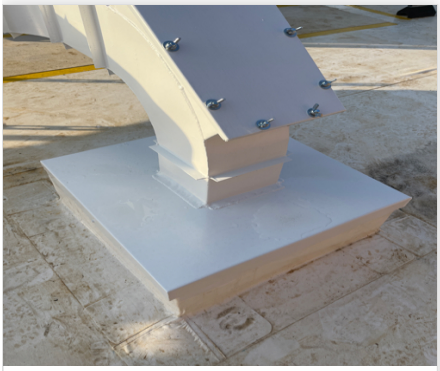
Description : ONE CURBCAP ON EF1 HAS ONLY ONE SCREW SECURING IT. CURBCAP NEEDS TO BE SECURED ON PARRALEL SIDE.

Created By : National TAB **Assigned To :** National TAB - William Patton

Status : Open

Originated Date : 02/21/2023 - William Patton - National TAB

Project Issue File Details



EF1CURBCAPS.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - HOOD1L & HOOD1R / BRACKET

Description : BRACKET NEEDS TO BE INSTALLED BETWEEN THE GAP BETWEEN HOOD1L & HOOD1R.

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details

BRACKET.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - HOOD2 GUSSET BRACKET BOLTS

Description : HOOD2 IS MISSING ONE OF THE FOUR GUSSET BRACKET SCREWS. RECOMMEND THIS SCREW BE INSTALLED.

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

Status : Open

Originated Date : 02/20/2023 - Dale Wheeler - National TAB

Project Issue File Details

HOOD2.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - LAMINATED COPY OF WIRING DIAGRAM

Description : LAMINATED COPY OF WIRING DIAGRAM NEEDS TO BE PLACED IN THE ELECTRICAL CABINET OF EACH UNIT. PAGE: M-501 NOTE: 1

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

Status : Open

Originated Date : 02/21/2023 - Dale Wheeler - National TAB

Project Issue File Details

LAMINATED.jpeg

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

Project Issue Information

Issue Name : NON-CRITICAL - PASS THROUGH DOOR CONTROLS

Description : PASS THROUGH DOOR CONTROLS ARE NOT INSTALLED FAN CANNOT BE TESTED. PAGE: M-401 NOTE: 4

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

Status : Open

Originated Date : 02/23/2023 - Dale Wheeler - National TAB

Project Issue File Details

CONTROLS.jpeg

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
AC-1	KITCHEN	9500	8846	8320	7594	1180	1252	12.4%	14.2%						
AC-2	SERVING, DT	5600	5184	4025	3562	1575	1622	28.1%	31.3%						
AC-3	DINING	6400	6515	4375	4516	2025	1999	31.6%	30.7%						
EF-1	HD1 L+R PRESS COOKER											1913	1889		
EF-2	HD2/HD3 FRYERS											1402	1362		
EF-3	RESTROOM													300	291
TOTALS		21500	20545	16720	15672	4780	4873			0	0	3315	3251	300	291

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	4780	4873
TOTAL EXHAUST	3615	3542
NET AIRFLOW	1165	1331

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.005
SIDE	0.01
REAR	0.009
AVERAGE	**0.008**

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:

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name : TECH - SITE PICTURES **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

STORE FRONT

STOREFRONT.jpeg

AC-1

AC1.jpeg

AC-2

AC2.jpeg

AC-3

AC3.jpeg

ECONOMIZER POSITIONS MARKED AND DATED FOR EACH AC

AC2.jpeg

EF-1

EF1.jpeg

EF-2

EF2.jpeg

EACH EF BELT TENSIONER POSITION MARKED

EF2TENSIONER.jpeg

EF-3

EF3(1).jpeg

HOOD 1

HOOD1.jpeg

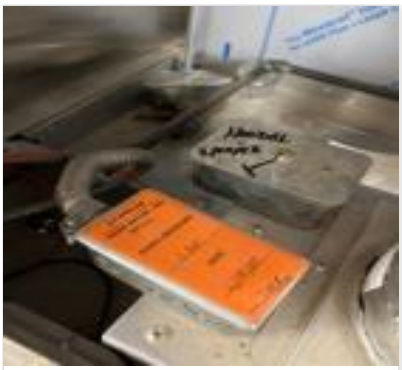
HOOD 2

HOOD2.jpeg

HOOD 3

HOOD3.jpeg

CAPTURE JET FINAL SETTINGS (MARKED AND DATED)



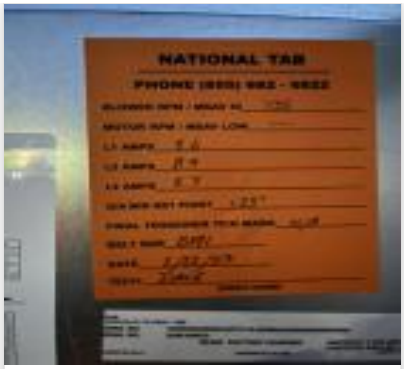
HOOD1L.jpeg

ONE MARKED BALANCING DAMPER

MARKEDDAMPER.jpeg

ONE OF EACH KIND OF TAB STICKER

EF.jpeg



RTU.jpeg

ONE OF EACH KIND OF TAB STICKER

BEF.jpeg

FILTERS.jpeg

Notes/Comments :

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name :	TECH - 01: INSPECTION: TRANE RTU'S	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

OVERALL INSPECTIONS	
-Units are level? (Use a bubble level)	YES / AC1, AC2, AC3
-OA filters are installed?	YES / AC1, AC2, AC3
-Are the heat exchanger baffles located at the very end of the discharge (against screen)	NO / AC1 ALL BAFFLES NEED TO BE PULLED OUT & AC3 ONE OF THE BAFFLES NEED TO BE PULLED OUT YES / AC2
-All doors and panels are free from damage?	YES / AC1, AC2, AC3
-Any other physical damage to note?	NO PHYSICAL DAMAGE TO NOTE AT THIS TIME
-Clean filters installed inside the units?	YES / AC1, AC2, AC3
Additional comments:	N/A
MECHANICAL CHECKS	
-Is the high static drive kit installed on units where it is specified? (Typically kitchen RTU)	NO EXTRA PULLEY KIT LAYING INSIDE UNIT. UNIT MOTOR IS RUNNING NEAR FLA.
-Is the belt a sufficient size that is included with the high static drive kit?	BELT INSTALLED FITS CORRECTLY
-GFI outlet (if installed) is wired and operational?	YES / AC2, AC3 NO / AC1
-Is the smoke detector installed/relocated to the correct compartment per remark in the RTU schedule?	YES / AC1, AC2, AC3
-Grommets installed for GFI outlet wiring? (If applicable)	YES / AC1, AC2, AC3
-Gas piping installed and valves turned on?	YES / AC1, AC2, AC3
-Gas piping grommets are installed?	YES / AC1, AC2, AC3

-Gas piping is painted with coat Aluminum base paint (should also have a coat of zinc rust primer but likely won't be visible). As per Plumbing specs	NO / GAS PIPING IS PAINTED YELLOW WHICH IS AN ACCEPTED COLOR BY CFA
-Piping (condensate and gas) does not obstruct doors or access panels?	YES / AC1, AC2, AC3
-Hail Guards are installed on the condenser coils	YES / AC1, AC2, AC3
-Condenser coil is clean and fins are straight?	YES / AC1, AC2, AC3
-Economizers are functional?	YES / AC1, AC2, AC3
-Evaporator coil is clean and fins are straight?	YES / AC1, AC2 AC3 SOME DAMAGE TO EVAP COIL
-Turn off unit and spot check high voltage wiring lugs are tight, no loose wires, etc.	YES / AC1, AC2, AC3
-Belts are properly tensioned?	YES / AC1, AC2, AC3
-Belts and pulleys are all aligned?	YES / AC1, AC2, AC3
-Are the power exhaust fan installed on units where specified?	NO / AC1, AC2, AC3 UNITS DO NOT HAVE POWER EXHAUST INSTALLED
-Take cover off of the power exhaust fan. Does the blower spin freely and do all wires appear to be landed?	NO / AC1, AC2, AC3 UNITS DO NOT HAVE POWER EXHAUST INSTALLED
-Inside the mixed air compartment is the power exhaust shroud assembled correctly including the backdraft damper?	NO / AC1, AC2, AC3 UNITS DO NOT HAVE POWER EXHAUST INSTALLED, BAROMETRIC DAMPER IS INSTALLED
Additional comments:	N/A
PLENUM CURB CHECKS (OPEN SUPPLY AIR SIDE PANEL)	
-Do the joints of the curb appear to be sealed well? Is there any gaps or leakage noticeable where the RTU meets the curb?	YES / AC1, AC2, AC3
-RTU/curb crossmembers are not conflicting? I.e., is the hat channel placement correct on the cross member?	NO NOT CONFLICTING FOR AC1, AC2, AC3
-Is the insulation secured in place with stick-pins and adhesive? Make sure insulation doesn't peel back.	NO / AC1, AC2, AC3 INSULATION IS NOT INSTALLED
-Is there sheet metal angle "nozing" covering insulation at ductwork drops/connections?	YES
-No high or low voltage wiring is visible inside the discharge air plenum? (Should be MC cable or routed through conduit only)	NO WIRING IS VISIBLE INSIDE DISCHARGE PLENUM FOR AC1, AC2, AC3
Additional comments:	N/A
CONDENSATE DRAINS - CHECK THAT THEY MATCH DETAIL IN THE PLUMBING DRAWINGS	

-Condensate drains are installed and have union on both sides of P-trap? (per plumbing drawings)	YES / AC1, AC2, AC3
-Cleanout plug is installed for the lower T fitting	YES / AC1, AC2, AC3
-Higher T fitting is open to the atmosphere and the top of the opening is below the pipe connection to the RTU?	YES / AC1, AC2, AC3
-Do condensate lines for each RTU match the sizing shown on the plumbing rooftop drawing? (There should be no reduction in size at any point including the P-trap.)	NO / ALL UNITS HAVE 1.00'' LINE INSTALLED SHOULD BE 1.50''
-Condensate drains are properly pitched to drain away from the units?	YES / AC1, AC2, AC3
-Condensate drains have at least 2" rise between connection to unit and the pipe after the P-trap?	YES / AC1, AC2, AC3
Additional comments:	N/A
LOW VOLTAGE WIRING	
-Grommets are installed around penetrations for wiring that is not in conduit?	YES / AC1, AC2, AC3
-Wires landed at P and P1 on the Reliatel Economizer Module	NO / AC1, AC2, AC3
-Are there any flash codes present on the economizer?	NO / AC1, AC2, AC3
-Wires landed to R, G, Y1, Y2, W1, W2, C on thermostat terminal strip?	YES / AC1, AC2, AC3
-Wire from " - " terminal at the humidity sensor landed to terminal 19 "RH-" on the NLTB board.	YES / AC1, AC2, AC3
-Wire from " + " terminal at the humidity sensor landed to terminal 18 "RH-" on the NLTB board.	YES / AC1, AC2, AC3
-Wire for humidstats is landed at 24VAC R terminal on the “Sensor” strip?	NO / AC1, AC2, AC3
-Wire landed to terminal 6 "ESTOP" on the LTB1 terminal strip.	NO / AC1, AC2, AC3
-Is the factory 24V jumper between terminal 5 and 6 removed on the LTB board for ESTOP? (Note: the jumper looks like a small metal bar)	NO / AC1, AC2, AC3
-Are any there any loose wires inside the unit that have not been connected to sensors?	NO LOOSE WIRES TO NOTE FOR AC1, AC2, AC3
Additional comments:	N/A
OTHER	

-Laminated copy of the control wiring is included in each RTU electrical cabinet as per the Controls M Sheet	NO / AC1, AC2, AC3
-Has mechanical contractor provided a second set of filters for owner (should be stored in space somewhere)	NO
-Annunciators are the specified Suncoast Keyless type?	YES / AC1, AC2, AC3
-All annunciators are labeled?	YES / AC1, AC2, AC3
Additional comments:	N/A
SEISMIC DETAILS	
Seismic clips attached to both sides of the unit and secured with screws if specified in the RTU schedule remarks?	NO / AC1, AC2, AC3
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name :	TECH - 02: INSPECTION: EXHAUST FANS	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

RESTROOM EXHAUST FAN	
-Rectangular duct is lined?	NO
-Round duct is externally insulated?	FLEX DUCT IS RUN FROM EF3 MAIN DROP NOT HARD DUCT.
-Backdraft damper is installed in duct and operates correctly?	NO
-Flexible conduit is run up through duct to raceway in fan?	YES
-Fan is secured to the curb with screws?	NO
-Speed controller installed and wired?	YES
Additional comments:	N/A
UTILITY SET GREASE FANS	
-1’ high nozzle is installed? If the fan is within 10' of parapet walls, RTU's, or condensing units, ensure that it extends at least 2" above them.	NO / EF1 & EF2 NOZZLES ARE NOT INSTALLED
-Joint between the nozzle and the exhaust fan collar has welded bead (not tack weld) so that grease will not accumulate? Caulking not preferred as it falls off.	EF1 & EF2 NOZZELS NOT INSTALLED
-G2 drip guard is installed and drain is piped to center of the guard?	NO / EF1 & EF2 DRIP GUARDS ARE NOT INSTALLED
-Transitions from duct to fan, and from fan to nozzle, are bolted and either have fire caulking or gasket?	YES / EF1 & EF2 TRANSITION FROM DUCT TO FAN IS BOLTED AND HAS GASKET INSTALLED. NOZZELS ARE NOT INSTALLED FOR EF1 & EF2

-Service disconnect is installed on the outside of the fan and functional?	YES / EF1 & EF2
-Belts are properly tensioned? (rotated to 2 tick marks)	YES / EF1 & EF2
-PVC grease drains pieces are glued together?	NO / DRAINS AND DRIP GUARDS ARE NOT INSTALLED FOR EF1 & EF2
-Pulleys are aligned?	YES / EF1 & EF2
-Spare belt provided for each fan? (Relocate spare belt to the inside of the door.)	YES / EF1 & EF2
-What other defects or quality control issues observed with the fans? For instance - access door missing, name plate wrong/missing, bolts or nuts missing from motor mount, etc	EF2 DOOR HARD TO CLOSE DUE TO DOOR NOT PERFECTLY LINING UP WITH FAN.
-Walk around unit and ensure fan is free of damage?	YES / EF1 EF2 DOOR HARD TO CLOSE DUE TO DOOR NOT PERFECTLY LINING UP WITH FAN.
-Verify that the nameplate matches design and that the store # matches	YES / EF1 & EF2 MODEL NUMBERS ARE CORRECT BUT STORE NUMBERS ON TAG DO NOT MATCH ACTUALLY STORE NUMBER
-Blower wheel spins freely?	YES / EF1 & EF2
-Fan is free of noise and vibration?	YES / EF1 & EF2
Additional comments:	N/A
UPBLAST GREASE FANS	
-Curb extensions installed?	N/A
-Grease duct is terminated flush with top of curb?	N/A
-Fire caulking around the grease duct flange on top of curb?	N/A
-Drip guard is installed and drain is piped to center of the guard?	N/A
-Conduit is long enough so that fan can fully hinge back?	N/A
-Fan hinges in correct direction as specified in mechanical plans? If not shown on plans, are they all hinged in the same direction?	N/A
-Belts are properly tensioned? (rotated to 3 tick marks)	N/A
-Service disconnect is installed and functional?	N/A
-PVC grease drains pieces are glued together?	N/A

-Pulleys are aligned?	N/A
-Spare belt provided for each fan?	N/A
-Walk around unit and ensure fan is free of damage?	N/A
-Verify that the nameplate matches design and that the store # matches	N/A
-Blower wheel spins freely?	N/A
-No major leakage around the base of the fan?	N/A
-Fan is free of noise and vibration?	N/A
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name :	TECH - 03: INSPECTION: CONTROLS	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

SENSORS (OVERALL CHECKS)	
-Sensors labeled on wall adjacent to sensors (unless plans specifically state otherwise) and have the correct unit number and indicate whether they are temp or humidity?	NO / AC1, AC2, AC3 NO LABELS INSTALLED
-Temperature and humidity sensors are installed where shown on the drawing?	YES / AC1, AC2, AC3
Additional comments:	N/A
TEMPERATURE SENSORS	
-Temperature sensors are wired to the correct thermostat? (Check by having someone hold a handwarming pad or lighter under the sensor from a safe distance and verifying temperature rise on the thermostat)	YES / AC1, AC2 NO / AC3 TEMP. SENSORS ARE NOT COMMUNICATING WITH THERMOSTATS
-Verify that manfacturer/model stamped on the outer jacket of the temperature sensor wiring cables is Connect Air model W221P-2003OR. The wire should be a shielded twisted pair (i.e., only two wires), with one drain wire. If other manufacturers are used, note the manufacturer/model and take picture for report.	BELDEN BRAND WIRING IS INSTALLED FOR ALL TEMP. SENSORS
-Is RS1 on each temperature sensor wired to RS-1 in the Suncoast panel?	YES / AC1, AC2, AC3
-Is RS+V on each temperature sensor wired to RS+V in the Suncoast panel?	YES / AC1, AC2, AC3
-Is RS2 on each temperature sensor wired with DRAIN wire to RS2 in the Suncoast panel?	YES / AC1, AC2, AC3
Additional comments:	N/A
HUMIDITY SENSORS	

-Verify that manufacturer/model stamped on the outer jacket of the humidity sensor wiring cables matches the specification (Connect Air model W221P-2003 is preferred)	AC1, AC2, AC3 HUMIDITY SENSOR WIRING USED IS BELDON BRAND.
-Covers of humidstats are secured?	YES / AC1, AC2, AC3
-LENNOX: For all humidity sensors: 2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.	N/A
-LENNOX: For all humidity sensors: For second shielded cable, one wire is landed to Vout and the shield wire is not connected.	N/A
-TRANE: For all humitiy sensors, one wire landed to + and one wire landed to - and the shield wire is not connected.	YES / AC1, AC2, AC3
Additional comments:	N/A
PANEL	
-High voltage wiring is run through the cable routing compartment and cover is installed?	YES
-Low voltage wiring installed at all terminals shown on specification for each RTU—E1, DI-1, G, Y2, Y1, W2, W1, R, C, RS2, RS1, RS+V	NEW STYLE SUNCOAST PANEL IS INSTALLED ON THIS JOB P & P1 AND D1 TERMINALS ARE NOT WIRED FOR ALL UNITS
-Thermostats are powered?	YES / AC1, AC2, AC3
-Overall, is panel is completely wired with no jumpers, installation complete, and is fully operational?	NO / AC1, AC2, AC3 P, P1, D1 TERMINALS ARE NOT WIRED.
-LENNOX units - Is OCP wired to P terminal in SEC panel, and P1 jumpered to R in the SEC panel	N/A
-TRANE units - Are P & P1 terminals landed between the SEC panel and economizer module	NO / AC1, AC2, AC3 P & P1
-Are R-1, R-2, and R-3 (R-4 and R-5 if applicable) ice cube relays factory wired properly from SEC inside the panel. Take photo and include in TAB report	YES
-Is R-6 (fire interlock) relay factory wired properly from SEC inside the panel. Take photo and include in TAB report.	YES
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name : TECH - 04: INSPECTION: HOOD/GREASE DUCT **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

Picture document all issues with full description. Needs to include the location of the specification (ex:Page, specification #, detail #) in the drawings. If you see something, say something. If there are any other issues you identify outside of these checklists note those in the report as well. All issues should be communicated with the MC onsite

HOODS

-Are hoods hung at the correct height? (check Halton spec for exact dimension - typically 64". Halton spec supercedes mechanical drawings)	HOOD1L / 63 1/8'' HOOD1R / 63 5/8'' HOOD2 / 64.25'' HOOD3 / 64.25"
-Make sure pin and sleeve electrical box is assembled correctly on all hoods	YES
-Take filters out of bank. Are there any parts laying in the grease trough and if so do they need to be installed?	YES / HOOD1L & HOOD1R BRACKET NEEDS TO BE INSTALLED NO / HOOD2 & HOOD3
-Adjust the slider on filter bank so that the filters have tight fit? Ensure no pieces are missing from the slider	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-Side brackets installed in between hoods and counters?	YES / HOOD2 & HOOD3
-Any threaded holes underneath hood canopy are filled?	NO THREADED HOLES UNDER HOOD CANOPIES NEED TO BE FILLED
-All hoods supported at factory support points with threaded rod (3/8” typ.)?	YES / HOOD2, HOOD3, HOOD1L NO / HOOD1R NOT ALL SUPPORT POINTS HAVE 0.50'' THREADED ROD RAN TO THEM, BUT BACK OF HOOD IS ANCHORED TO WALL WITH SCREWS
-If threaded rod is exposed below ceiling, is it inside stainless steel tubing and is the escutcheon installed?	N/A
-ANSUL pull stations are labeled with red bakelite label with 1/4" high white letters indicating the hoods served?	YES
Is the ANSUL system installation complete?	YES

-Curb caps secured to the curb where roof top grease duct penetrates into space? (if no roof top grease duct put N/A)	YES / EF2 & EF1
-Capture jet fans are hard piped?	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-Capture jet speed controllers are wired and functional.	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-Capture jet fans are installed the correct direction (so they supply air to hood canopy and do NOT exhaust)	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-Side Capture jet (if applicable) is installed with fan guard and stand?	N/A
-Hoods are secured to the wall at all pre-punch hole locations?	YES / HOOD2 & HOOD3
-Is the fry chute installed?	YES / HOOD2 & HOOD3
-Are the grease cups installed?	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-Are gusset bracket bolts installed (typically on Hood 2)?	NO / HOOD2 MISSING ONE OF THE FOUR GUSSET BRACKET BOLTS
-Ensure there is no damage to the hoods?	NO DAMAGE TO NOTE AT THIS TIME
Additional comments:	N/A
GREASE DUCTWORK	
-EF-1 main drop is equal distance between both risers unless specified otherwise on drawings	N/A
-Unifrax Fyrewrap brand is used on all grease ductwork	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-All turns in grease duct are long radius type elbows and follow equation Radius = (3 * W) / 2. (Measured to the duct centerline). No mitered fitting allowed. (Both in space and on roof)	YES / EF1 & EF2
-Each grease cleanout doors meets specifications, is assembled correctly, and is the correct size? (Outer plate is not required for rooftop ductwork - indoors only)	YES / EF2 EF1 ONE GREASE CLEANOUT DOOR INSTALLED WAS NOT THE CORRECT SIZE PER RINTS
-Each grease cleanout doors are installed in the location shown on drawing?	YES / EF1 & EF2
-Balancing dampers are installed if specified?	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
-Roof top grease duct is painted white in a professional manner? If grease duct is not painted, recommend that all rust be removed prior to painting.	YES / EF1 & EF2
-Rooftop grease duct is supported at 6’ intervals maximum with supports shown in specification?	YES / EF1 & EF2

-Rooftop grease duct is supported at each duct drop into the space?	YES / HOOD1L, HOOD1R, HOOD2, HOOD3
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name : TECH - 05: INSPECTION: HVAC DUCTWORK **Status :** Submitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

Picture document all issues with full description. Needs to include the location of the specification (ex:Page, specification #, detail #) in the drawings. If you see something, say something. If there are any other issues you identify outside of these checklists note those in the report as well. All issues should be communicated with the MC onsite

MAIN TRUNKS (SPOT CHECK)	
-All ductwork (w/ exception of RR fan) is externally insulated. No liners are allowed and must be removed.	YES / AC1, AC2, AC3
-Ductwork insulation has minimum 6 R-Value installed?	YES / AC1, AC2, AC3
-Canvas connector installed between the main supply & return drops and RTU's.	YES / AC1, AC2, AC3
-Check that base-pan connections are seated and aligned correctly (i.e., duct connections at the RTU)?	YES / AC1, AC2, AC3
-Turning vanes on main supply drop should be single thickness and not double thickness? (not necessary in returns)	YES / AC1, AC2, AC3
-Ducts 24" or wider have stick pins and stick pins are covered with duct tape or mastic?	NO / AC1, AC2, AC3
-All seams in insulation are taped?	YES / AC1, AC2, AC3
-Is the insulation wet?	NO / AC1, AC2, AC3
-Does the return air drop span-out with a transition per specification where applicable (i.e., is it a tapered transition from opening at unit to full size on plans and NOT hard mitred transition)	NO / AC1 RETURN DROP ONLY SPANS OUT ON ONE SIDE OF THE DUCT, RETURN DUCT DROP IS UNDER SIZED. PLANS CALL FOR RETURN DROP TO BE 96'' WIDE BUT DUCT INSTALLED IS ONLY 80'' WIDE. YES / AC2 NO / AC3 RETURN DUCT IS INSTALLED DIFFERENTLY THEN SHOWN ON PRINTS, UNIT TOTAL IS WITHIN DESIGN.
-Check that sealant used on ductwork connections (spot check 1)	YES / AC1, AC2, AC3

Additional comments:	N/A
GRILLE TAKEOFFS (SPOT CHECK)	
-Damper handles are located on the left or right of the duct?	YES / AC2, AC3 NO / AC1- SGRD10 DAMPER ARE LOCATED ON THE TOP OF DUCT NOT THE LEFT OR RIGHT AC1 EGRD8 RETURN DAMPER IS LOCATED ON LEFT SIDE OF GRILL SHOULD BE LOCATED ON BOTTOM.
-Do all start collars and Rusking In-Line dampers match specification and appear to be purchased thru Tom Barrow Co	AC1 - SGRD1,2,4,10,11,13 & EGRD5,6,9 DO NOT HAVE RUSKIN TYPE DAMPER HANDLES INSTALLED. AC2- EGRD2 & EGRD3 DO NOT HAVE RUSKIN TYPE DAMPER HANDLES INSTALLED. AC3- SGRD4 & SGRD5 DO NOT HAVE RUSKIN TYPE DAMPER HANDLES INSTALLED. RECOMMEND THE CORRECT TYPE DAMPER HANDLE TO BE INSTALLED.
-Fluorescent ribbon is attached to each damper handle?	YES / AC2, AC3 NO / AC1 EGRD1,2,3,9 DAMPER HANDLES DO NOT HAVE A FLUORESCENT FLAGS INSTALLED ON DAMPER HANDLES.
-Minimum 1’ rigid duct after start collar?	YES / AC1, AC2, AC3
-Flex duct is installed on each duct run after rigid duct and is less than 48” in length?	YES / AC1, AC2, AC3
-Rigid hard pipe with 90 degree fitting and riser connecting to the grille?	YES / AC1, AC2, AC3
-Drawband and tape are used to secure inner core of the flex duct? (Spot check)	NO / AC1, AC2, AC3 INNER CORE IS BANDED BUT NOT ALSO TAPED
-Drawband or tape is used on outer jacket?	YES / AC1, AC2, AC3
-Tops of diffusers are insulated?	YES / AC1, AC2, AC3
-Mastic at rigid connections to diffuser?	YES / AC1, AC2, AC3
Additional comments:	N/A
OVERALL	
-Any leaky ductwork observed?	NO
-Ductwork supported properly?	YES
Additional comments:	N/A
GRD'S	
-Do all diffusers match specified models and appear to be purchased thru Tom Barrow Co.?	YES
-Do all diffusers appear to be clean of dust and debris?	YES
-Any damage to diffusers?	NO DAMAGE TO NOTE AT THIS TIME

-All diffusers installed at the correct locations?	NO / AC1 SGRD1 RETURN GRILL IS MOUNTED ON THE SUPPLY DUCT AND SUPPLY GRILL MOUNTED ON THE RETURN DUCT YES / AC2, AC3
-Ensure that deflectors for diffusers in entires, Drive thru cockpit, office, adjacent to soffits, restrooms, RR vesibule are closed as shown on the mechanical plan.	YES
-Look at plans and adjust pattern deflectors to throw straight down for diffusers near hood where noted.	YES
-Adjust pattern deflectors for any other diffusers where noted on plans (Either included as a note in plans or as blacked out triangle sections of diffuser.)	YES
-Air diffuser air pattern blades adjusted uniformly?	YES
-Is space free of drafting?	DINING AREA GETS WARM AND COLD DUE TO TEMP. SENSOR NOT COMMUNICATING WITH THERMOSTAT
-Notice any squeaking damper noise? If so, tighten wing-nut on opposite side of stand-off.	NO SQEAKING TO NOTE AT THIS TIME
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name : TECH - 06: INSPECTION: OTHER

Status : Submitted

Assigned Organization : National TAB

Asset :

Requesting Organization : National TAB

CheckList Item Details

Picture document all issues with full description. Needs to include the location of the specification (ex:Page, specification #, detail #) in the drawings. If you see something, say something. If there are any other issues you identify outside of these checklists note those in the report as well. All issues should be communicated with the MC onsite

AIR DOORS

Does the hanging height of the air doors match design?	BACK DOOR AIR DOOR HUNG AT 87.75'' PASS THROUGH DOOR DIVERTER BOX HUNG AT 84.0''
-Installed in proper location?	YES
-Correct model/manufacturer?	POWERED AIRE
-Is the Drive-thru air curtain diverter box installed and allows enough room for servicing the air filter?	YES
-Timer is set to minimum position (0)?	YES
-They are operating correctly?	YES / BACK DOOR NO / PASS THROUGH DOOR CONTROLS HAVE NOT BEEN INSTALLED AT THIS TIME
-Are switches installed?	NO / PASS THROUGH DOOR CONTROLS HAVE NOT BEEN INSTALLED AT THIS TIME
-For drive thru air door, if MP-1-30 type or similar, door is adjusted so it is not noisey and directed at the center of the drive thru window?	N/A
-For drive thru air door, if Chameleon type, fan speed is set as high as possible without creating disruptive noise, and air is directed to center of walkway?	YES / CHAMELEON TYPE FAN UNABLE TO TEST PASS THROUGH DOOR DUE TO CONTROLS NOT HAVING BEEN INSTALLED AT THIS TIME
Additional comments:	N/A

CANOPY

Are canopy fans and heaters installed and controls complete?	YES
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name : TECH - 07: TAB CHECKS

Status : Submitted

Assigned Organization : National TAB

Asset :

Requesting Organization : National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:	
Is space free of drafting?	YES
Is space comfortable in all areas?	DINING AREA GETS WARM AND COLD DUE TO THERMOSTAT NOT COMMUNICATING WITH TEMP. SENSOR
Is the space free of ventilation noise?	YES
All balancing dampers final position marked with permanent marker after balancing complete?	YES
Notice any squeaking damper noise? If so, tighten wing-nut on opposite side of stand-off.	NO SQUEAKING TO NOTE AT THIS TIME
Additional Comments	N/A
ZONE DAMPER - OFFICE	
Maximum airflow set to design?	YES / OFFICE TEAM ROOM IS LOW OF DESIGN DAMPER IS 100% AND ELECTRICAL DAMPER IS OPERATING CORRECTLY
Thermostat is installed and functional?	YES
Additional Comments	N/A
OVERALL	
Is there anything outside of the checklists that appears out of sort?	NO

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name : TECH - 08: TRANE SETTINGS **Status :** Submitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

FAT (Fresh air tempering)	
Confirm on plans if fresh air tempering should be installed? (typically mandatory in Northeast, Midwest, Northwest, VA, KY, and some areas of NC/TN) Then complete the following items if applicable	FRESH AIR TEMPERING WAS NOT INSTALLED DUE GEOGRAPHICAL LOCATION OF STORE
Fresh air tampering kit installed in the supply duct after the first 90 degree elbow and setpoint adjusted? (The temperature control module is mounted on the supply duct). Set to 60 for kitchen, 62 for serving, and 63 for dining.	FRESH AIR TEMPERING WAS NOT INSTALLED DUE GEOGRAPHICAL LOCATION OF STORE
Additional comments:	N/A
OTHER SETTINGS	
Set dehumidification setpoint is at the RTOM circuit board using the “DEHMID” potentiometer. Set to 60% RH by adjusting it to 3 o’clock position approximately. Then use the test terminal direclty next to the dial and test to ground to measure the DC volts to fine tune the setting. See chart for conversion but should be 2.18 DC volts.	YES / AC1, AC2, AC3
Mark the final dehumidification potentiometer position with white out or paint	YES / AC1, AC2, AC3
If the VFD is set up for VAV (Variable air volume) confirm that it is only operating in CAV (Constant air volume). Parameters 4-12 and 6-14 on the VFD are the low speed parameters and should be set to the same as high speed.	YES / AC1, AC2, AC3
If the unit was found set up for VAV, then the outside air damper must be set for all three fan speeds (high, med, and low)	YES / AC1, AC2, AC3

"Exhaust SP" dial is set to approximately 50% or higher so that the power exhaust stays off normally? (Park setpoint with whiteout/paint)	POWER EXHAUST IS NOT INSTALLED ON ANY OF THESE UNITS
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name :	TECH - 09: CONTROLS COMMISSIONING	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

OCCUPIED / UNOCCUPIED SEQUENCE OF OPERATION	
Turn switch on Suncoast panel to occupied mode and check the following for all RTU's:	
All blowers turn on (I.e., signal to G)? (Except the Playroom unit which will stay in auto blower)	YES / AC1, AC2, AC3
All economizers open to minimum position? (I.e., signal to OCP terminal)	YES / AC1, AC2, AC3
Temperatures on thermostats at occupied settings (73 cooling / 69 heating)	YES / AC1, AC2, AC3
Hood exhaust and Capture Jets turn on?	YES / AC1, AC2, AC3
Additional comments:	N/A
Turn switch on Suncoast panel to unoccupied mode and check the following for all RTU's:	
All blowers go to auto mode?	YES / AC1, AC2, AC3
All economizers close? (I.e., no signal to the OCP terminal)	YES / AC1, AC2, AC3
Temperatures on thermostats at unoccupied settings (80 cooling / 55 heating). Unoccupied cooling may need to be manually changed to 80.	YES / AC1, AC2, AC3
Hood exhaust and Capture Jets turn off?	YES / ALL CAPTURE JETS YES / EF1 NO / EF2
Additional comments:	N/A
TEMPERATURES	
Turn on temp sensor reading for all thermostats	YES / AC1, AC2 NO / AC3 THERMOSTAT IS NOT COMMUNICATING WITH TEMP. SENSOR

Measured temperature at each sensor matches actual temperature on thermostat?	YES / AC1, AC2 NO / AC3 THERMOSTAT IS NOT COMMUNICATING WITH TEMP. SENSOR
Measured temperature at each zone damper thermostat matches displayed temprature?	YES /. OFFICE & TEAM ROOM
Additional comments:	N/A
ZONE DAMPER	
Zone damper closes and opens correctly when a change is made at the thermostat?	YES / TEAM ROOM & OFFICE
Zone damper thermostats are installed and functional?	YES / TEAM ROOM & OFFICE
Additional comments:	N/A

Notes/Comments :

N/A

Comfort. Under control.

02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU) NEW STORE

CheckList Information

Name :	TECH - 10: SMOKE CAPTURE AND PRESSURIZATION TESTS	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

FINAL TESTS	
CONFIRM BEFORE COMPLETING FINAL TESTS	
Roof hatch, exterior doors, and windows all installed?	YES
Ceiling tiles and hard ceilings are completed with no openings to the attic space?	YES
Additional comments:	YES
HOOD CAPTURE TEST	
List kitchen equipment turned on for testing	NO CANNOT BE TURNED ON FOR SMOKE TEST
List smoke candle type used	SMOKE EMITTER
Smoke test capture - Perimeter of hood (%)	100%
Smoke test capture - Top of cooking surface (%)	100%
WITNESS	
Date test was completed	2/23/2023
TAB tech name / Firm	DALE WHEELER / NTAB
Site super name / Firm	CHAD CARSON / WH BASS
Owner representative name / Firm (if Applicable)	N/A
Video taken of smoke tests?	Yes
BUILDING PRESSURE TEST	

Building pressure at front & back doors (All Systems On)	FRONT DOOR +0.005'' / BACK DOOR +0.009'' / SIDE DOOR +0.01'' / ALL SYSTEM ON
Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	Yes
VELOCITY OF SERVING WINDOW	
Transfer velocity for Serving Window (window between kitchen and serving) is 50-80FPM	YES

Notes/Comments :

N/A

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: AHU/RTU

Comfort. Under control.

Asset: AC1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	224810404D
Model Num	YHD300G3RHD	YHD300G3RHD
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	59X17
Num Final Filter 1	-	8
Final Filter Size 1	-	20X20X2
Num Final Filter 2	-	4
Final Filter Size 2	-	16X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	184TZ
Horsepower	7.5	7.5
Motor Rpm	-	3475
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	19.4

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	VP44
Motor Bore Size	-	1 1/8
Motor Sheave SetPt	-	MINIMIZED
Fan Sheave Size	-	15 3/8
Fan Sheave Bore	-	1 1/8
Belt CL Distance	-	21.25"
Num of Belts	-	1
Belt Size	-	BX77
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	9500	8846
SF RPM	-	873
RA CFM	8320	7594
OA CFM	1180	1252
RL Voltage	-	209/209/209
RL Amperage	-	17.0/17.1/17.7
SF Rotation	-	CW
RA Damper Position	-	9.0"
Min OA Damper Position	-	0.75"
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	E

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.901"
Fan Suction SP	-	-1.23"
Fan Discharge SP	-	0.469"
Total ESP	0.80"	1.37"
Fan Total SP	-	1.699"

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

Completed By: Dale Wheeler

Notes:

Diffuser Supply (GRD)

AC1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	A	14"	825	1	854	726	801	97.1
SGRD2	KITCHEN	A	14"	600	1	873	548	567	94.5
SGRD3	KITCHEN	A	14"	500	1	460	477	504	100.8
SGRD4	KITCHEN	A	14"	825	1	651	713	750	90.9
SGRD5	KITCHEN	A	14"	500	1	655	477	495	99.0
SGRD6	KITCHEN	A	14"	825	1	745	797	774	93.8
SGRD7	KITCHEN	A	14"	825	1	771	755	754	91.4
SGRD8	KITCHEN	A	14"	825	1	708	771	816	98.9
SGRD9	KITCHEN	A	14"	825	1	584	665	693	84.0
SGRD10	KITCHEN	A	14"	825	1	572	654	701	85.0
SGRD11	KITCHEN	A	12"	450	1	260	393	447	99.3
SGRD12	WAREWASH	A	12"	500	1	612	460	516	103.2
SGRD13	SERVICE	A	10"	425	1	125	334	390	91.8
SGRD14	TEAM MEMBER ROOM	A	12"	350	1	171	182	240	68.6
SGRD15	OFFICE	A	12"	400	1	489	441	398	99.5

Diffuser Ret/Exh (GRD)

AC1/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	OFFICE	F	12"	400	1	518	457	406	101.5
EGRD2	TEAM MEMBER ROOM	F	12"	350	1	535	438	357	102.0
EGRD3	SERVICE	F	10"	320	1	0	176	292	91.3
EGRD4	RR VESTIBULE	F	16"	1450	1	1095	1120	1127	77.7

Completed By: Brianna Biggs on

Asset	Notes
SGRD9	PROPORTIONALLY BALANCED. UNIT AT 93% OF DESIGN.
SGRD10	PROPORTIONALLY BALANCED. UNIT AT 93% OF DESIGN.
SGRD14	DAMPER IS 100% OPEN AND ELECTRICAL DAMPER IS OPERATING CORRECTLY. UNABLE TO INCREASE TO DESIGN FLOW WITH OUT RESTRICTING UNIT TOTAL.
EGRD4	UNABLE TO INCREASE FURTHER WITHOUT RESTRICTING UNIT

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: AHU/RTU

Comfort. Under control.

Asset: AC2 AREA:SERVING, DT

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	225010215D
Model Num	YHD210G3RHD	YHD210G3RHD
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	59X17
Num Final Filter 1	-	8
Final Filter Size 1	-	20X20X2
Num Final Filter 2	-	4
Final Filter Size 2	-	16X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	5.0	5.0
Motor Rpm	-	3450
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	13.4

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3 5/8
Motor Bore Size	-	7/8
Motor Sheave SetPt	-	MINIMIZED
Fan Sheave Size	-	18.75"
Fan Sheave Bore	-	1 1/8"
Belt CL Distance	-	22.25"
Num of Belts	-	1
Belt Size	-	BX81
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	5600	5184
SF RPM	-	741
RA CFM	4025	3562
OA CFM	1575	1622
RL Voltage	-	211/211/211
RL Amperage	-	9.0/9.0/9.5
SF Rotation	-	CW
RA Damper Position	-	7.0"
Min OA Damper Position	-	1.0"'
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	E

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.628"
Fan Suction SP	-	-0.804"
Fan Discharge SP	-	0.392"
Total ESP	0.65"	1.02"
Fan Total SP	-	1.196"

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

Completed By: Dale Wheeler

Notes:

Diffuser Supply (GRD)

AC2/SERVING, DT

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	SERVING	A	14"	825	1	458	570	600	72.7
SGRD2	SERVING	A	14"	825	1	541	702	747	90.5
SGRD3	DRIVE THRU	A	14"	790	1	734	795	725	91.8
SGRD4	DRIVE THRU	A	14"	790	1	742	810	725	91.8
SGRD5	DRIVE THRU	A	14"	790	1	706	790	790	100.0
SGRD6	DRIVE THRU	A	14"	790	1	727	788	807	102.2
SGRD7	DRIVE THRU	A	14"	790	1	719	763	790	100.0

Diffuser Ret/Exh (GRD)

AC2/SERVING, DT

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	DRIVE THRU	F	16"	1325	1	791	799	855	64.5

Completed By: Brianna Biggs on

Asset	Notes
SGRD1	DAMPER 100% OPEN. UNABLE TO INCREASE WITHOUT LOSING UNIT TOTAL PERFORMANCE. CURRENTLY 92% OF DESIGN.
EGRD1	DAMPER FULL OPEN. CONCERNED THAT CLOSING OTHER RETURN DAMPERS MAY RESTRICT UNIT TOTAL PERFORMANCE. CU RRENTLY 92% OF DESIGN.

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: AHU/RTU

Comfort. Under control.

Asset: AC3 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	224810457d
Model Num	YHD240G3RHD	YHD240G3RHD
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	59X17
Num Final Filter 1	-	8
Final Filter Size 1	-	20X20X2
Num Final Filter 2	-	4
Final Filter Size 2	-	16X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	5.0	5
Motor Rpm	-	3450
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	13.4

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3 5/8
Motor Bore Size	-	7/8
Motor Sheave SetPt	-	MINIMIZED
Fan Sheave Size	-	18.5"
Fan Sheave Bore	-	1 1/8
Belt CL Distance	-	21 7/8"
Num of Belts	-	1
Belt Size	-	BX81
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	6400	6515
SF RPM	-	735
RA CFM	4325	4516
OA CFM	2025	1999
RL Voltage	-	208/208/208
RL Amperage	-	8.6/8.9/8.7
SF Rotation	-	CCW
RA Damper Position	-	8.0"'
Min OA Damper Position	-	1.25"
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	E

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.589"
Fan Suction SP	-	-0.78"
Fan Discharge SP	-	0.464"
Total ESP	0.65"	1.053"
Fan Total SP	-	1.244"

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

Completed By: Dale Wheeler

Notes:

Diffuser Supply (GRD)

AC3/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	VESTIBULE	C	12"	400	1	112	118	438	109.5
SGRD2	DINING	A	12"	500	1	262	207	455	91.0
SGRD3	DINING	A	14"	500	1	245	402	528	105.6
SGRD4	DINING	A	12"	500	1	414	438	489	97.8
SGRD5	DINING	A	12"	450	1	326	366	450	100.0
SGRD6	DINING	A	12"	500	1	406	455	490	98.0
SGRD7	DINING	A	12"	500	1	461	452	487	97.4
SGRD8	DINING	A	12"	450	1	536	421	424	94.2
SGRD9	DINING	A	12"	450	1	484	432	428	95.1
SGRD10	DINING	A	12"	450	1	473	432	481	106.9
SGRD11	DINING	A	12"	500	1	500	467	504	100.8
SGRD12	DINING	A	12"	500	1	462	448	500	100.0
SGRD13	DINING	A	14"	280	1	448	225	282	100.7
SGRD14	RR VESTIBULE	A	10"	170	1	288	342	301	177.1
SGRD15	WOMENS RR	J	8"	125	1	48	125	136	108.8
SGRD16	MENS RR	J	8"	125	1	57	131	122	97.6

Diffuser Ret/Exh (GRD)

AC3/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	VESTIBULE	K	10	355	1	411	376	334	94.1

Completed By: Brianna Biggs on

Asset	Notes
SGRD14	NO DAMPER LOCATED

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:HD1 L+R PRESS COOKER

Unit Data		
	Design	**Actual**
MFG	LOREN COOK	LOREN COOK
Model Num	150 CPS	150 CPS
Serial Num	-	050SJ98175
Type	UPBLAST	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	56
Horsepower	3/4	0.75
Motor Rpm	-	56
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	8.2
Service Factor	-	1.25

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	VL44
Motor Bore Size	-	5/8
Motor Sheave SetPt	-	4.5 TURNS OUT
Fan Sheave Size	-	AK46
Fan Sheave Bore	-	1.0"
Belt CL Distance	-	12.25"
Num of Belts	-	1
Belt Size	-	A36

Test Data		
	Design	**Actual**
CFM	1913	1889
Fan RPM	1326	1251
Fan Rotation	-	CCW
Motor RPM	-	1768
RL Voltage	-	122
RL Amperage	-	4.7
Suction ESP	-	-0.672"
Discharge ESP	-	ATM
Total ESP	0.75"	0.672"

Completed By: Dale Wheeler

Notes:

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF2 AREA:HD2/HD3 FRYERS

Unit Data		
	Design	**Actual**
MFG	LOREN COOK	LOREN COOK
Model Num	150 CPS	150 CPS
Serial Num	-	050SJ98175
Type	UPBLAST	UTILITY
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	56
Horsepower	3/4	0.75
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	8.2
Service Factor	-	1.25

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	VL44
Motor Bore Size	-	5/8
Motor Sheave SetPt	-	4 TURNS OUT
Fan Sheave Size	-	AK51
Fan Sheave Bore	-	1.0"
Belt CL Distance	-	12.0"
Num of Belts	-	1
Belt Size	-	A37

Test Data		
	Design	**Actual**
CFM	1402	1362
Fan RPM	1268	1271
Fan Rotation	-	CCW
Motor RPM	-	1766
RL Voltage	-	121
RL Amperage	-	7.4
Suction ESP	-	-0.796"
Discharge ESP	-	ATM
Total ESP	0.375"	0.796"

Completed By: Dale Wheeler

Notes:

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF3 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	LOREN COOK	LOREN COOK
Model Num	ACED-90C15DH	ACED-90C15DH
Serial Num	-	050SK31807
Type	DOWNBLAST	DOWNBLAST
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	1/8	1/8
Motor Rpm	-	1600
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.7
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	300	291
Fan RPM	1294	1600
Fan Rotation	-	CCW
Motor RPM	-	1600
System SetPt	-	HIGH
RL Voltage	-	121
RL Amperage	-	1.6
Total ESP	0.375"	0.281"
Fan Inlet SP	-	-0.281"
Fan Discharge SP	-	ATM

Completed By: Dale Wheeler

Notes:

National TAB

Project:02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

FAN - Exhaust

Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF3/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	WOMENS RR	K	8"	150	1	253	177	155	103.3
EGRD2	MENS RR	K	8"	150	1	111	129	136	90.7

Completed By: Brianna Biggs on

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-C-IC	KVL-C-IC
Job / Serial Num	-	114152-837
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	42	42"
Hood Width	34	34"

Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS FILTERS (KSA)	SS FILTERS (KSA)
Filter Qty 1	2	2
TAB SP	0.295"	-0.261"
CFM	701	659

Cooking Equipment		
	Design	**Actual**
Item 1	-	FRYER
Item 2	-	FRYER

Test Data Supply		
	Design	**Actual**
TAB SP	0.29"	0.297"

Completed By: Dale Wheeler

Notes:

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-C-IC	KVL-C-IC
Job / Serial Num	-	114152-889
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	34"	34"
Hood Width	42"	42"

Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS FILTERS (KSA)	SS FILTERS (KSA)
Filter Qty 1	2	2
TAB SP	0.295"	-0.297"
CFM	701	703

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

Test Data Supply		
	Design	**Actual**
TAB SP	0.29"	0.303"

Completed By: Dale Wheeler

Notes:

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD-L1 AREA:

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-2-IC	KVL-2-IC
Job / Serial Num	-	114152-751
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	63	63"
Hood Width	37	37"

Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS FILTERS (KSA)	SS FILTERS (KSA)
Filter Qty 1	3	3
TAB SP	0.129"	-0.131"
CFM	709	714

Cooking Equipment		
	Design	**Actual**
Item 1	-	PRESSURE FRYER
Item 2	-	PRESSURE FRYER

Test Data Supply		
	Design	**Actual**
TAB SP	0.30"	0.312"

Completed By: Dale Wheeler

Notes:

National TAB

Project: 02-20-23 CHICK-FIL-A #05047 - SEVIERVILLE, TN (HWY 66 FSU)
NEW STORE

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD-R1 AREA:

Unit Data		
	Design	**Actual**
MFG	HALTON	HALTON
Model Num	KVL-2-IC	KVL-2-IC
Job / Serial Num	-	114152-789
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	107	107
Hood Width	37	37

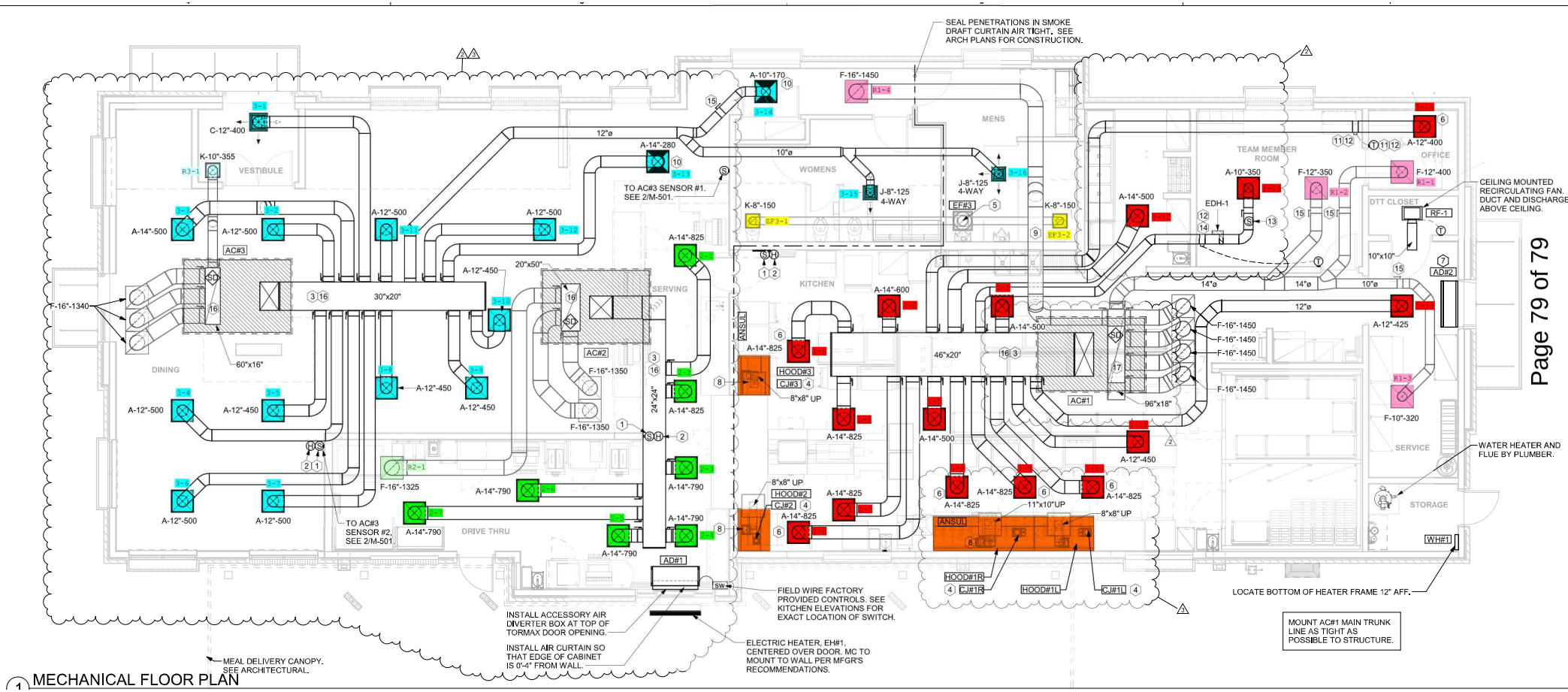
Test Data Exhaust		
	Design	**Actual**
Filter Size 1	SS FILTERS (KSA)	SS FILTERS (KSA)
Filter Qty 1	5	5
TAB SP	0.128"	-0.122"
CFM	1204	1175

Cooking Equipment		
	Design	**Actual**
Item 1	-	PRESSURE FRYER
Item 2	-	PRESSURE FRYER

Test Data Supply		
	Design	**Actual**
TAB SP	0.30"	0.297"

Completed By: Dale Wheeler

Notes:



1 MECHANICAL FLOOR PLAN

Date: 3/9/2023