Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 06/19/2024

PROJECT

06-10-24 PENN STATION - FORT. MILL, SC

1754 SC-160 WEST

FORT MILL, SC 29708

Client

C&T DESIGN

4025 PORT UNION RD.

FAIRFIELD, OH 45014

National TAB

Project: 06-10-24 PENN STATION - FORT. MILL, SC

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.

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
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.

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

Final Building Tests
After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.
The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

CheckList List

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

06-10-24 PENN STATION - FORT. MILL, SC

CheckList Information

Name :	TECH - SITE PICTURES	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/12/2024 - Brianna Biggs - National TAB		
Completed Date :	06/13/2024 - JOASH ALBIN - National TAB		

CheckList Item Details

STORE FRONT	Yes

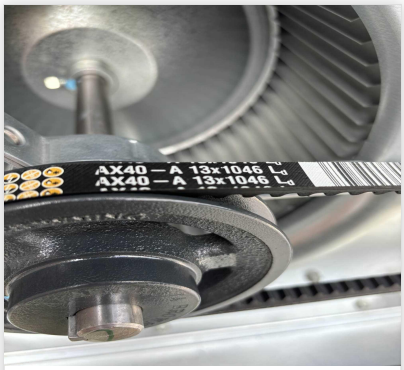
Comment:

IMG_7752
06/13/2024

RTU-1	Yes

Comment:

IMG_7755
06/13/2024



IMG_7756
06/13/2024

IMG_7754
06/13/2024

RTU-2 Yes

Comment:

IMG_7753
06/13/2024

IMG_7762
06/13/2024

KEF-1 Yes

Comment:

IMG_7765
06/13/2024

IMG_7764
06/13/2024

IMG_7763
06/13/2024

KEF-2 Yes

Comment:

IMG_7766
06/13/2024

IMG_7767
06/13/2024

IMG_7768
06/13/2024

KEF-3 Yes

Comment:

IMG_7770
06/13/2024

IMG_7771
06/13/2024

IMG_7769
06/13/2024

EF-4 Yes

Comment:

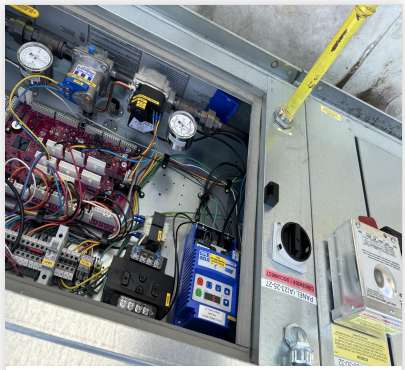
IMG_7784
06/13/2024

MUA-1 Yes

Comment:

IMG_7776
06/13/2024

IMG_7772
06/13/2024



IMG_7773
06/13/2024

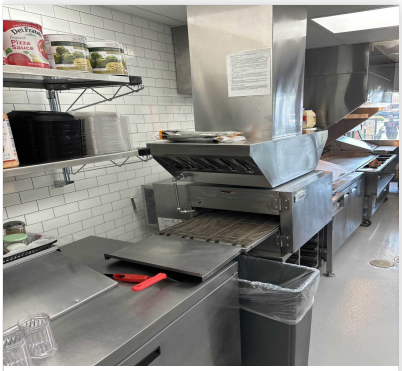
HD-1 Yes

Comment:

image
06/13/2024

HD-2 Yes

Comment:



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06/13/2024

HD-3	Yes

Comment:

image
06/13/2024

06-10-24 PENN STATION - FORT. MILL, SC

CheckList Information

Name :	TECH - STEP 1: INITIAL WALKTHROUGH	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/12/2024 - Brianna Biggs - National TAB		
Completed Date :	06/13/2024 - JOASH ALBIN - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

Review Plan Review Checklist, has it been signed off and meets our standards to start balancing? If not contact processor to ensure job is ready.

Comment:

Yes

All diffusers and grilles are installed and match design?

Comment:

Yes

All hood filters installed and accounted for?

Comment:

Yes

Hoods are wired and have power?

Comment:

Yes

Hood is free of alarms?

Comment:

Yes

Thermostats have power?

Comment:

Yes

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

Comment:

Yes

06-10-24 PENN STATION - FORT. MILL, SC

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/12/2024 - Brianna Biggs - National TAB		
Completed Date :	06/13/2024 - JOASH ALBIN - National TAB		

CheckList Item Details

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

RTU's/AHU's

Economizers are assembled and functional?	Yes
Comment:	
DCV Max damper opening position is set to minimum?	Yes
Comment:	
Free cooling enthalpy set point set for lowest setting (Typically "D")	Yes
Comment:	
Motors are all operating below the FLA rating?	Yes
Comment:	
Are belts tight?	
Comment:	
Yes	
If direct drive unit is the speed controller working.	

Comment:

Yes

Is gas piping installed and valves turned on?	

Comment:

Yes

Unit free of noticeable noise and vibration	Yes

Comment:

Yes

EF's

Rotation is correct?	Yes

Comment:

Belts are tight?	

Comment:

N/A

Grease cup installed on hood fan?	Yes

Comment:

Hinge kit installed installed on hood fan?	Yes

Comment:

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes

Comment:

Flex conduit is long enough so that fan can be completely tilted back?	Yes

Comment:

There is no major leakage around base of fan?	Yes

Comment:

Is the motor operating below the motor FLA rating?	Yes

Comment:

For restroom fan(s) is the back draft damper installed and can it fully open?	Yes

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

MUA

Rotation is correct?	Yes

Comment:

Gas piping is installed and valves are in on position?	Yes

Comment:

Heater tested and is functional?	Yes

Comment:

Internal motorized damper is fully opening?	Yes

Comment:

Motor is operating below the FLA rating?	Yes

Comment:

Unit free of noticeable noise and vibration?	Yes

Comment:

HOODS

Kitchen equipment installed in proper places?	Yes

Comment:

Can kitchen equipment be turned on for final smoke test?	Yes

Comment:

DOCUMENTATION

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

Comment:

06-10-24 PENN STATION - FORT. MILL, SC

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/12/2024 - Brianna Biggs - National TAB		
Completed Date :	06/13/2024 - JOASH ALBIN - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

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

Notes/Comments :

N/A

Date :06/13/2024

06-10-24 PENN STATION - FORT. MILL, SC

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/12/2024 - Brianna Biggs - National TAB		
Completed Date :	06/13/2024 - JOASH ALBIN - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

HOODS 1-3, all exhaust fans , MAU, and associated RTU

List smoke candle type used

Comment:

S-102

Smoke test capture - Perimeter of hood

Comment:

Video capture

Smoke test capture - Top of cooking surface

Comment:

Video capture

WITNESS

Date test was completed

Comment:

Video capture

TAB tech name / Firm

Comment:

Joash N Albin/ NTAB(video capture)

Site super name / Firm

Comment:

Video capture

Owner representative name / Firm (if Applicable)

Comment:

Video capture

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

Comment:

0.12FD/ 0.17BD

ADDITIONAL

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

Comment:

Yes

PROGRAM THERMOSTATS

Occupied 7:15AM-10:15PM: 68 Heat/72 Cool (NOTE: 3 degree MAX setback)

Comment:

Yes

Unoccupied 10:16PM-7:14AM: 65 Heat/75 Cool

Comment:

Yes

National TAB

Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: AHU/RTU

Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	TRANE
Serial Num	-	23462384PA
Model Num	ZGA060S4BM1P	GBC060A3ELB0D000
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	10X24X1
Num Final Filter 1	-	4
Final Filter Size 1	-	16X16X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	1
Motor Rpm	-	1725
Phase	1	3
Rated Voltage	208	230
Rated Amperage	-	4.0

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	1.5
Fan Sheave Size	-	3"
Fan Sheave Bore	-	0.635"
Belt CL Distance	-	16"
Num of Belts	-	1
Belt Size	-	AX40
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	2000	1957
SF RPM	-	1195F/1731M
RA CFM	1400	1410
OA CFM	600	547
RL Voltage	-	210/212/208
RL Amperage	-	3.8/3.9/3.7
SF Rotation	-	CCW
SF System SetPt	-	CONTANT HIGH
RA Damper Position	-	NA
Min OA Damper Position	-	20% /1.3" OPEN
Min OA Damper Type	-	MANUAL
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.37"
Fan Suction SP	-	-0.83"
Fan Discharge SP	-	0.41"
Total ESP	-	0.78"
Fan Total SP	-	1.24"

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

Completed By: JOASH ALBIN on 06/16/2024

National TAB

Project:06-10-24 PENN STATION - FORT. MILL, SC

AHU/RTU

Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	10"	10"	300	1	350	303	297	99.0
SGRD2	DINING	10"	10"	320	1	385	307	299	93.4
SGRD3	DINING	10"	10"	360	1	310	335	345	95.8
SGRD4	DINING	10"	10"	300	1	279	301	300	100.0
SGRD5	DINING	10"	10"	300	1	250	267	305	101.7
SGRD6	DINING	10"	10"	320	1	241	260	312	97.5
SGRD7	DINING	8"	8"	100	1	125	170	99	99.0
Total				2000		1940	1943	1957	97.85%

Completed By: JOASH ALBIN on 06/16/2024

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: AHU/RTU

Asset: RTU2 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	23462313PA
Model Num	ZGA060S4BM1P	GBC060A3ELB0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	10X24
Num Final Filter 1	-	4
Final Filter Size 1	-	16X16X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	1
Motor Rpm	-	1725
Phase	1	3
Rated Voltage	208	208
Rated Amperage	-	4

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4"
Motor Bore Size	-	0.875
Motor Sheave SetPt	-	2
Fan Sheave Size	-	3"
Fan Sheave Bore	-	0.625
Belt CL Distance	-	16"
Num of Belts	-	1
Belt Size	-	AX40
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	2000	1994
SF RPM	-	1184F/1722M
RA CFM	1400	1425
OA CFM	600	569
RL Voltage	-	210/212/208
RL Amperage	-	3.7/3/7/3.9
SF Rotation	-	CCW
SF System SetPt	-	NA
RA Damper Position	-	NA
Min OA Damper Position	-	20%/1.3" OPEN
Min OA Damper Type	-	MANUALY SET
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	0.45"
Fan Suction SP	-	0.81"
Fan Discharge SP	-	0.49"
Total ESP	-	0.94"
Fan Total SP	-	1.30"

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

Completed By: JOASH ALBIN on 06/16/2024

National TAB

Project:06-10-24 PENN STATION - FORT. MILL, SC

AHU/RTU

Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	MENS RR		6"	50	1	43	49	49	98.0
SGRD2	WOMENS RR		6"	50	1	41	51	51	102.0
SGRD3	PREP		10"	400	1	475	480	480	120.0
SGRD4	PREP		10"	400	1	360	363	383	95.8
SGRD5	PREP		10"	400	1	350	358	358	89.5
SGRD6	KITCHEN		8"	250	1	235	238	238	95.2
SGRD7	KITCHEN		8"	225	1	215	220	220	97.8
SGRD8	KITCHEN		8"	225	1	205	215	215	95.6
Total				2000		1924	1974	1994	99.7%

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:FRYER HOOD

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	EADU85H
Serial Num	-	6351107
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	48EC
Horsepower	0.750	0.75
Motor Rpm	1	1
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	7.65
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	850	
Fan RPM	1144	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	70%
RL Voltage	-	119
RL Amperage	-	5.89
Total ESP	1.150"	1.01"
Fan Inlet SP	-	-1.01"
Fan Discharge SP	-	ATM

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:OVEN HOOD

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

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.333	
Motor Rpm	-	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	600	
Fan RPM	1360	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	210/212/208
RL Voltage	-	
RL Amperage	-	
Total ESP	0.600"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: FAN - Exhaust

Asset: KEF3 AREA:GRILL HOOD

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

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.750	
Motor Rpm	-	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	1120	1153
Fan RPM	1215	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	70%
RL Voltage	-	210/212/208
RL Amperage	-	
Total ESP	1.150"	1.17"
Fan Inlet SP	-	-1.17"
Fan Discharge SP	-	ATM

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: FAN - Exhaust

Asset: EF4 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	NA
Type	-	ceiling
Configuration	-	Horizontal

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.9
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	75	72
Fan RPM	-	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	High
RL Voltage	-	122
RL Amperage	-	0.86
Total ESP	-	Na
Fan Inlet SP	-	Na
Fan Discharge SP	-	Na

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: FAN - Exhaust

Asset: EF5 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	NA
Type	-	CEILING
Configuration	-	HORIZONTAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.9
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	75	71
Fan RPM	-	NL
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	High
RL Voltage	-	121
RL Amperage	-	0.81
Total ESP	-	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: JOASH ALBIN on 06/13/2024

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Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: FAN - Supply

Asset: MUA1 AREA:COOKLINE (HD1 & HD3)

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	EA1-D.250-15D-MPU	EA1-D.250-15D-MPU
Serial Num	-	
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WESTINGHOUSE
Frame	-	145T
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	5.48
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60/74 FOR COOLING
Air Flow Switch SP Actual	-	0.27

Test Data		
	Design	**Actual**
CFM	1630	1625
SF RPM	1898	DD
Motor RPM	-	DD
SF System SetPt	-	53.5Hz
RL Voltage	-	208
RL Amperage	-	3.5/3.3/3.1
Total ESP	-	0.28"
Fan Discharge SP	-	NA

General		
	Design	**Actual**
Fan Rotation Correct	-	YES

National TAB

Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3650 ELPX - 246 ACPSP ONLY	3650 ELPX - 246 ACPSP ONLY
Job / Serial Num	-	
Type	TYPE I CANOPY	
Hood length	50"	
Hood Width	36"	
Supply Plenum Type	-	
Supply Plenum Width	14"	
Supply Plenum Length	50"	

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	
Filter Size 1	16X16	
Filter Qty 1	3	
Filter AK factor size 1	1.62	
Filter Total AK Area	4.86	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter Ave FPM(corr)	-	
CFM	850	

Cooking Equipment		
	Design	**Actual**
Item 1	-	
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	**Actual**
Total AK Area	4.86	
Kv factor (Vel)	0.89	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	630	

National TAB

Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4412 PS OVN	4412 PS OVN
Job / Serial Num	-	
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	21.25	21.25"
Hood Width	44"	44"

Test Data Exhaust		
	Design	**Actual**
Filter Type	SS BAFFLE	BAFFLE
Filter Size 1	10X20	10X20
Filter Qty 1	2	2
Filter AK factor size 1	22X10	22X10
Filter Total AK Area	3.36	3.36
Filter1 FPM	-	196
Filter2 FPM	-	194
Filter Ave FPM(corr)	-	175
CFM	600	588

Cooking Equipment		
	Design	**Actual**
Item 1	-	SANDWICH COOKER
Item 2	-	

Completed By: JOASH ALBIN on 06/16/2024

National TAB

Project: 06-10-24 PENN STATION - FORT. MILL, SC

System/Unit: Kitchen Hood Type I

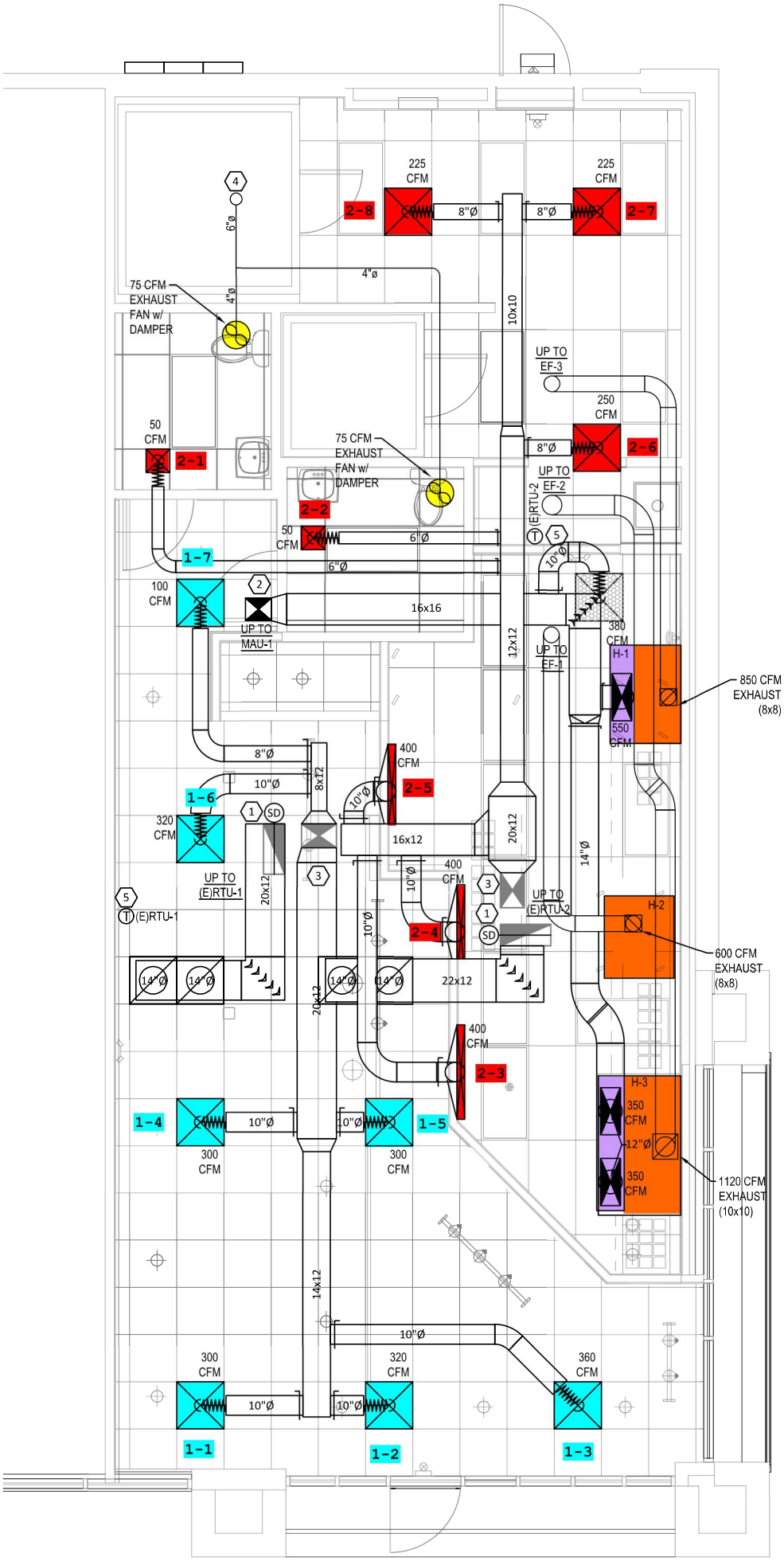
Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3650 ELPX - 246 ACPSP ONLY	3650 ELPX - 246 ACPSP ONLY
Job / Serial Num	-	
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	72"	
Hood Width	36"	
Supply Plenum Type	-	
Supply Plenum Width	14"	
Supply Plenum Length	72"	

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	6.48	6.48
Filter1 FPM	-	225
Filter2 FPM	-	190
Filter3 FPM	-	191
Filter4 FPM	-	195
Filter Ave FPM(corr)	-	178
CFM	1120	1153

Cooking Equipment		
	Design	**Actual**
Item 1	-	GRIDDLE
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	**Actual**
Total AK Area	7	7
Kv factor (Vel)	0.89	0.89
Num of Readings	-	6
Reading1 FPM	-	165
Reading2 FPM	-	157
Reading3 FPM	-	177
Reading4 FPM	-	175
Reading5 FPM	-	160
Reading6 FPM	-	152
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	146
CFM	1000	1023



MECHANICAL - FLOOR PLAN

SCALE: 1/4" = 1'-0"

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M1.0