

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 11/26/2024
Completed By: National TAB

PROJECT
11-25-24 CULVERS LABELLE, FL

44 Lashley Lane

Labelle, FL 33935

Client

Captive-Aire Region #60

National TAB

Project: 11-25-24 CULVERS LABELLE, FL

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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)

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.

General Exhaust Fans

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

Final Building Tests

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

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

Issue List

- Diffuser 1-4 - High Flow
- RTU 1 - Low Flow Diffusers
- RTU 2 - Low Flow



11-25-24 CULVERS LABELLE, FL

Project Issue Information

Issue Name : Diffuser 1-4 - High Flow
Description : Diffuser 1-4 is outputting 187 CFM (125% design). Damper is stuck within duct and cannot be adjusted further. Not expected to create comfort issues in the open dining space.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 11/27/2024 - Mark Johnson - National TAB

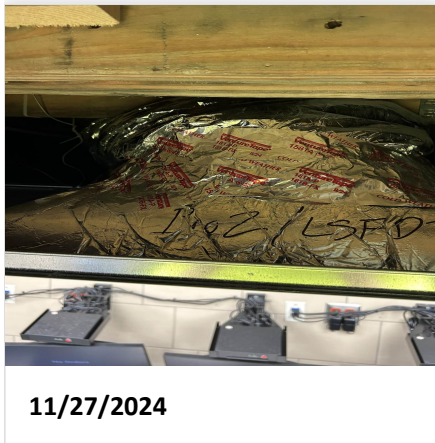


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Project Issue Information

Issue Name : RTU 1 - Low Flow Diffusers
Description : Diffusers 1-18, 1-23, 1-24, and 1-26 are below design (46%, 87%, 80%, and 82% of design respectively). Respective dampers are fully open. Duct for 1-18 is severely crushed, restricting airflow. Not expected to cause comfort issues in the open dining space.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Medium **Asset Tag :** RTU1
Originated Date : 11/27/2024 - Mark Johnson - National TAB

Project Issue File Details





11-25-24 CULVERS LABELLE, FL

Project Issue Information

Issue Name : RTU 2 - Low Flow
Description : RTU 2 is currently outputting 5233 CFM (84% design). Unit cannot be sped up further without causing the motor to overamp. Several diffusers remain below design (2-1, 2-2, 2-12, 2-13, 2-15) but the cookline and surrounding food prep area is within design flow. Recommend contacting manufacturer if comfort issues arise.

Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein

Status : Open

Priority : High **Asset Tag :** RTU2

Originated Date : 11/27/2024 - Mark Johnson - National TAB

AIR BALANCE SCHEDULE

| UNIT | AREA SERVED | HVAC SUPPLY | | HVAC RETURN | | HVAC OUTDOOR | | OA % | | HOOD MAKE-UP | | HOOD EXHAUST | | GENERAL EXH. | |
|---------------|-------------|-------------|--------|-------------|--------|--------------|--------|--------|--------|--------------|--------|--------------|--------|--------------|--------|
| | | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL |
| RTU-1 | DINING | 6150 | 5667 | 4400 | 3885 | 1750 | 1782 | 28.5% | 31.4% | | | | | | |
| RTU-2 | KITCHEN | 6225 | 5233 | 4525 | 3507 | 1700 | 1726 | 27.3% | 33.0% | | | | | | |
| PRV 2 | HOOD 1 | | | | | | | | | | | 1500 | 1497 | | |
| PRV 3 | HOOD 2 | | | | | | | | | | | 1500 | 1555 | | |
| PRV 1 | RESTROOM | | | | | | | | | | | | | 300 | 305 |
| EFA1 | MOP ROOM | | | | | | | | | | | | | 75 | 74 |
| EFB1 | EMPLOYEE RR | | | | | | | | | | | | | 75 | 75 |
| TOTALS | | 12375 | 10900 | 8925 | 7392 | 3450 | 3508 | | | 0 | 0 | 3000 | 3052 | 450 | 454 |

NET BUILDING AIRFLOW CALCULATION

| TOTALS | DESIGN | ACTUAL |
|--------------------|----------|----------|
| TOTAL OA | 3450 | 3508 |
| TOTAL EXHAUST | 3450 | 3506 |
| NET AIRFLOW | 0 | 2 |

| DOOR TESTED | BUILDING PRESSURE MEASUREMENTS (IN. H2O) |
|----------------|------------------------------------------|
| FRONT | 0.0003 |
| SIDE | - |
| REAR | 0.0004 |
| AVERAGE | 0.0004 |

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

- 01: SITE PICTURES
- 02: RTU's
- 03.EXHAUST FANS
- 04.HOOD 1
- 05.HOOD 2
- 06.FINAL TEST



11-25-24 CULVERS LABELLE, FL

CheckList Information

Name : 01: SITE PICTURES **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/22/2024 - Wale Odofin - National TAB
Completed Date : 11/25/2024 - Mark Johnson - National TAB

CheckList Item Details

STORE FRONT

Comment:



11/25/2024

RTU-1

Comment:



11/25/2024

RTU-2

Comment:



11/25/2024

PRV-1

Comment:



11/25/2024

PRV-2

Comment:



11/25/2024

PRV-3

Comment:



11/25/2024

EF-1A

Comment:

MOP ROOM



11/25/2024

EF-1B

Comment:

EMPLOYEE RESTROOM



11/25/2024

HOOD 1

Comment:



11/25/2024

HOOD 2

Comment:



11/25/2024



11-25-24 CULVERS LABELLE, FL

CheckList Information

Name : 02: RTU's **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/22/2024 - Wale Odofin - National TAB
Completed Date : 11/27/2024 - Mark Johnson - National TAB

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power? Pass

Comment:

All diffusers and grilles are installed and match design? Pass

Comment:

Cookline diffusers have at 12-18" of straight duct out of the top of the diffusers and a rigid 90 degree fitting? Fail

Comment:



11/27/2024

Economizers are assembled and functional?

Pass

Comment:

Motors are all operating below the FLA rating?

Pass

Comment:

Are belts tight?

N/A

Comment:

Direct Drive

If direct drive unit is the speed controller working?

Pass

Comment:

Is gas piping installed and valves turned on?

N/A

Comment:

Electric Heating

Unit free of noticeable noise and vibration

Pass

Comment:



11-25-24 CULVERS LABELLE, FL

CheckList Information

Name : 03.EXHAUST FANS **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/22/2024 - Wale Odofin - National TAB
Completed Date : 11/27/2024 - Mark Johnson - National TAB

CheckList Item Details

EF's

Rotation is correct?

Pass

Comment:

Belts are tight?

N/A

Comment:

Direct Drive

Hinge kit installed installed on hood fan?

Pass

Comment:

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

Pass

Comment:

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

Pass

Comment:

There is no major leakage around base of fan?

Pass

Comment:

Is the motor operating below the motor FLA rating?

Pass

Comment:

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

Pass

Comment:

Unit free of noticeable noise and vibration?

Pass

Comment:



11-25-24 CULVERS LABELLE, FL

CheckList Information

Name : 04.HOOD 1 **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/22/2024 - Wale Odofin - National TAB
Completed Date : 11/27/2024 - Mark Johnson - National TAB

CheckList Item Details

HD-1

Is the hood powered and free of alarms? Pass

Comment:

Does hood label match submittal? Pass

Comment:

Do hood dimensions match submittal? Pass

Comment:

Is the hood hung Level? Pass

Comment:

Are hood lights installed and are they powered? Pass

Comment:

Are temperature Sensors installed? Pass

Comment:

Are the correct number and size of filters installed, and are they installed correctly?

Pass

Comment:

Is the grease cup installed?

Pass

Comment:

Are side splashes/skirts installed and do they match the submittal?

Pass

Comment:

Is the backsplash installed and does it match the submittal?

Pass

Comment:

Are ceiling enclosures installed and do they match the submittal?

Pass

Comment:

Does the appliance line-up match the drawings on submittal?

Pass

Comment:

Document any other issues or discrepancies.

Comment:

HOOD CAPTURE TEST

List equipment turned on for testing:

Comment:

Griddle

Smoke Test Capture - Perimeter of Hood

Comment:

100%

Smoke Test Capture - Top of Cooking Surface

Comment:

100%

List smoke candle used:

Comment:

Observed cooking - employee training



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CheckList Information

Name : 05.HOOD 2 **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/22/2024 - Wale Odofin - National TAB
Completed Date : 11/27/2024 - Mark Johnson - National TAB

CheckList Item Details

HD-2

Is the hood powered and free of alarms? Pass

Comment:

Does hood label match submittal? Pass

Comment:

Do hood dimensions match submittal? Pass

Comment:

Is the hood hung Level? Pass

Comment:

Are hood lights installed and are they powered? Pass

Comment:

Are temperature Sensors installed? Pass

Comment:

Are the correct number and size of filters installed, and are they installed correctly?

Pass

Comment:

Is the grease cup installed?

Pass

Comment:

Are side splashes/skirts installed and do they match the submittal?

Pass

Comment:

Is the backsplash installed and does it match the submittal?

Pass

Comment:

Are ceiling enclosures installed and do they match the submittal?

Pass

Comment:

Does the appliance line-up match the drawings on submittal?

Pass

Comment:

Document any other issues or discrepancies.

Comment:

HOOD CAPTURE TEST

List equipment turned on for testing:

Comment:

Fryer

Smoke Test Capture - Perimeter of Hood

Comment:

100%

Smoke Test Capture - Top of Cooking Surface

Comment:

100%

List smoke candle used:

Comment:

Observed cooking - employee training



11-25-24 CULVERS LABELLE, FL

CheckList Information

Name : 06.FINAL TEST **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/22/2024 - Wale Odofin - National TAB
Completed Date : 11/27/2024 - Mark Johnson - National TAB

CheckList Item Details

FINAL CHECKS

When hoods are turned off, verify the economizers shut N/A

Comment:

Unable to verify hood interlock. Economizers set to shut in unoccupied mode.

When hoods are turned on, verify the economizers open to the minimum position Pass

Comment:

Is space free of drafting? Pass

Comment:

Is space comfortable in all areas? Pass

Comment:

Is the space free of ventilation noise? Pass

Comment:

HOOD CAPTURE TEST

List kitchen equipment turned on for testing

Comment:

Griddle, Fryer

List smoke candle type used

Comment:

Observed cooking - employee training

Smoke test capture % - Perimeter of hood

Comment:

100%

Smoke test capture % - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

11/27/2024

Comment:

TAB tech name / Firm

Comment:

Mark Johnson / National TAB

Site super name / Firm

Comment:

Owner representative name / Firm (if Applicable)

Comment:

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)

Pass

Comment:



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: AHU/RTU

Asset: RTU1

AREA:DINING

| Unit Data | | |
|---------------------|---------------------|------------------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Serial Num | - | 6301204 |
| Model Num | CASTRU3-E452-24-20T | CAS-HVAC3-E.452-24-20T |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 4 |
| OA Filter Size 1 | - | 16x25x2 |
| Num Final Filter 1 | - | 8 |
| Final Filter Size 1 | - | 20x25x2 |

| Motor Data | | |
|----------------|--------|----------------------|
| | Design | Actual |
| Motor MFG | - | TECO WESTINGHOUSE |
| Frame | - | 215T |
| Horsepower | - | 10.0 |
| Motor Rpm | - | 1755 |
| Phase | 3 | 3 |
| Rated Voltage | 208 | 230/460 |
| Rated Amperage | - | 24.3/12.15 |

| 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 | 6150 | 5667 |
| SF RPM | - | 1580 |
| RA CFM | 4400 | 3885 |
| OA CFM | 1750 | 1782 |
| RL Voltage | - | 158 VFD |
| RL Amperage | - | 23.8 VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 54 HZ |
| RA Damper Position | - | 5.8 V |
| Min OA Damper Position | - | 4.2 V |
| Min OA Damper Type | - | ECONOMIZER |

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

Completed By: Mark Johnson on 11/27/2024



National TAB

Project:11-25-24 CULVERS LABELLE, FL

AHU/RTU

Diffuser Supply (GRD)

RTU1/DINING

| Asset | | | | | | | | | |
|------------|---------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | ENTRY | SD-1 | 8" | 150 | 1 | 175 | 148 | 153 | 102.0 |
| SGRD2 | DINING | SD-1 | 8" | 150 | 1 | 217 | 221 | 140 | 93.3 |
| SGRD3 | DINING | SD-1 | 8" | 150 | 1 | 207 | 178 | 162 | 108.0 |
| SGRD4 | DINING | SD-1 | 8" | 150 | 1 | 175 | 185 | 187 | 124.7 |
| SGRD5 | DINING | SD-1 | 8" | 150 | 1 | 194 | 180 | 141 | 94.0 |
| SGRD6 | DINING | SD-1 | 8" | 150 | 1 | 185 | 158 | 156 | 104.0 |
| SGRD7 | DINING | SD-1 | 8" | 150 | 1 | 211 | 150 | 156 | 104.0 |
| SGRD8 | DINING | SD-1 | 8" | 150 | 1 | 186 | 165 | 157 | 104.7 |
| SGRD9 | DINING | SD-1 | 8" | 150 | 1 | 213 | 165 | 162 | 108.0 |
| SGRD10 | DINING | SD-1 | 8" | 150 | 1 | 177 | 160 | 156 | 104.0 |
| SGRD11 | DINING | SD-1 | 8" | 150 | 1 | 178 | 167 | 156 | 104.0 |
| SGRD12 | DINING | SD-1 | 8" | 150 | 1 | 129 | 144 | 144 | 96.0 |
| SGRD13 | DINING | SD-1 | 8" | 150 | 1 | 140 | 158 | 156 | 104.0 |
| SGRD14 | DINING | SD-1 | 8" | 150 | 1 | 183 | 161 | 163 | 108.7 |
| SGRD15 | DINING | SD-1 | 8" | 150 | 1 | 170 | 163 | 165 | 110.0 |
| SGRD16 | DRINKS | SD-1 | 8" | 300 | 1 | 419 | 288 | 301 | 100.3 |
| SGRD17 | ENTRY | SD-1 | 12" | 150 | 1 | 228 | 157 | 155 | 103.3 |
| SGRD18 | SUNDAE SERV. | SD-1 | 8" | 500 | 1 | 175 | 227 | 231 | 46.2 |
| SGRD19 | OFFICE | SD-1 | 12" | 200 | 1 | 163 | 164 | 180 | 90.0 |
| SGRD20 | CUSTOMER ORD. | SD-1 | 10" | 450 | 1 | 366 | 407 | 412 | 91.6 |
| SGRD21 | CUST. SERV. | SD-1 | 10" | 350 | 1 | 294 | 323 | 326 | 93.1 |
| SGRD22 | CUST. SERV. | SD-1 | 10" | 350 | 1 | 282 | 315 | 319 | 91.1 |
| SGRD23 | CUST. SERV. | SD-1 | 10" | 350 | 1 | 260 | 283 | 304 | 86.9 |
| SGRD24 | CUST. SERV. | SD-1 | 10" | 350 | 1 | 257 | 281 | 281 | 80.3 |
| SGRD25 | DINING | SD-1 | 8" | 150 | 1 | 231 | 164 | 147 | 98.0 |
| SGRD26 | HALL | SD-1 | 12" | 450 | 1 | 314 | 370 | 371 | 82.4 |
| SGRD27 | RR | SD-4 | 8" | 150 | 1 | 118 | 130 | 137 | 91.3 |
| SGRD28 | RR | SD-4 | 8" | 150 | 1 | 146 | 149 | 149 | 99.3 |
| Total | | | | 6150 | | 5993 | 5761 | 5667 | 92.15% |



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: AHU/RTU

Asset: RTU2

AREA:KITCHEN

| Unit Data | | |
|---------------------|---------------------|------------------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Serial Num | - | 6301204 |
| Model Num | CASTRU3-E452-24-20T | CAS-HVAC3-E.452-24-20T |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 4 |
| OA Filter Size 1 | - | 16x25x2 |
| Num Final Filter 1 | - | 8 |
| Final Filter Size 1 | - | 20x25x2 |

| Motor Data | | |
|----------------|--------|----------------------|
| | Design | Actual |
| Motor MFG | - | TECO WESTINGHOUSE |
| Frame | - | 215T |
| Horsepower | - | 10.0 |
| Motor Rpm | - | 1755 |
| Phase | 3 | 3 |
| Rated Voltage | 208 | 230/460 |
| Rated Amperage | - | 24.3/12.2 |

| 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 | 6225 | 5233 |
| SF RPM | - | 1550 |
| RA CFM | 4525 | 3507 |
| OA CFM | 1700 | 1726 |
| RL Voltage | - | 158 VFD |
| RL Amperage | - | 23.6 VFD |
| SF Rotation | - | CCW |
| SF System SetPt | - | 53 HZ |
| RA Damper Position | - | 4.8 V |
| Min OA Damper Position | - | 5.2 V |
| Min OA Damper Type | - | ECONOMIZER |

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

Completed By: Mark Johnson on 11/27/2024



National TAB

Project:11-25-24 CULVERS LABELLE, FL

AHU/RTU

Diffuser Supply (GRD)

RTU2/KITCHEN

| Asset | | | | | | | | | |
|--------------|--------------|------|------|-------------|----|-------------|-------------|-------------|---------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | SUNDAE SERV. | SD1 | 12" | 600 | 1 | 355 | 415 | 416 | 69.3 |
| SGRD2 | SUNDAE SERV. | SD1 | 12" | 600 | 1 | 418 | 412 | 419 | 69.8 |
| SGRD3 | KITCHEN | SD5 | 10" | 275 | 1 | 293 | 309 | 284 | 103.3 |
| SGRD4 | KITCHEN | SD5 | 10" | 250 | 1 | 296 | 240 | 246 | 98.4 |
| SGRD5 | KITCHEN | SD5 | 12" | 400 | 1 | 376 | 399 | 400 | 100.0 |
| SGRD6 | KITCHEN | SD5 | 12" | 400 | 1 | 373 | 440 | 405 | 101.3 |
| SGRD7 | KITCHEN | SD5 | 12" | 375 | 1 | 303 | 326 | 340 | 90.7 |
| SGRD8 | KITCHEN | SD5 | 10" | 200 | 1 | 321 | 202 | 204 | 102.0 |
| SGRD9 | KITCHEN | SD5 | 12" | 350 | 1 | 593 | 353 | 371 | 106.0 |
| SGRD10 | KITCHEN | SD5 | 12" | 350 | 1 | 365 | 436 | 354 | 101.1 |
| SGRD11 | KITCHEN | SD5 | 12" | 350 | 1 | 510 | 329 | 332 | 94.9 |
| SGRD12 | UTILITY RM | SD1 | 12" | 600 | 1 | 368 | 373 | 388 | 64.7 |
| SGRD13 | DRY GOODS | SD1 | 12" | 600 | 1 | 382 | 406 | 416 | 69.3 |
| SGRD14 | TOILET | SD4 | 6" | 75 | 1 | 106 | 73 | 75 | 100.0 |
| SGRD15 | DRY GOODS | SD1 | 12" | 600 | 1 | 342 | 361 | 381 | 63.5 |
| SGRD16 | DRY GOODS | SD1 | 12" | 200 | 1 | 273 | 192 | 202 | 101.0 |
| Total | | | | 6225 | | 5674 | 5266 | 5233 | 84.06% |



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: FAN - Exhaust

Asset: EFA1

AREA:MOP ROOM

| Unit Data | | |
|----------------------|-------------|----------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | BROAN |
| Model Num | CFA 100CA | L100 |
| Serial Num | - | NL |
| Type | CEILING | CEILING |
| Configuration | VERTICAL | VERTICAL |

| Motor Data | | |
|-------------------------|--------|--------|
| | Design | Actual |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 120 |
| Amperage (rated) | - | 1.1 |

| Test Data | | |
|---------------------|--------|---------------------------|
| | Design | Actual |
| CFM | 75 | 74 |
| Fan RPM | 493 | HIGH |
| Fan Rotation | - | CCW |
| Motor RPM | - | HIGH |
| System SetPt | - | SPEED CONTROLLER (MARKED) |
| RL Voltage | - | 119 |
| RL Amperage | - | 0.4 |

Completed By: Mark Johnson on 11/25/2024



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: FAN - Exhaust

Asset: EFB1

AREA:EMPLOYEE RR

| Unit Data | | |
|---------------|-------------|----------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | BROAN |
| Model Num | CFA 100CA | L100 |
| Serial Num | - | NL |
| Type | - | CEILING |
| Configuration | - | VERTICAL |

| Motor Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Phase | - | 1 |
| Voltage (rated) | - | 120 |
| Amperage (rated) | - | 1.1 |

| Test Data | | |
|--------------|--------|---------------------------|
| | Design | Actual |
| CFM | 75 | 75 |
| Fan RPM | - | HIGH |
| Fan Rotation | - | CCW |
| Motor RPM | - | HIGH |
| System SetPt | - | SPEED CONTROLLER (MARKED) |
| RL Voltage | - | 120 |
| RL Amperage | - | 0.4 |

Completed By: Mark Johnson on 11/25/2024



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: FAN - Exhaust

Asset: PRV1

AREA:RESTROOMS

| Unit Data | | |
|---------------|-------------|-------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Model Num | DU85HFA | DR12HFA |
| Serial Num | - | 6301204 |
| Type | DOWNBLAST | DOWNBLAST |
| Configuration | VERTICAL | VERTICAL |

| Motor Data | | |
|------------------|--------|-------------|
| | Design | Actual |
| Motor MFG | - | TELCO GREEN |
| Frame | - | NL |
| Horsepower | - | 1/4 |
| Motor Rpm | - | 1800 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 2.9 |
| Service Factor | - | NL |

| Test Data | | |
|------------------|--------|---------|
| | Design | Actual |
| CFM | 300 | 305 |
| Fan RPM | 1010 | 868 |
| Fan Rotation | - | CCW |
| Motor RPM | - | 868 |
| System SetPt | - | 46% |
| RL Voltage | - | 120 |
| RL Amperage | - | 0.4 |
| Total ESP | 0.250" | 0.117" |
| Fan Inlet SP | - | -0.117" |
| Fan Discharge SP | - | ATM |

Completed By: Mark Johnson on 11/25/2024



National TAB

Project:11-25-24 CULVERS LABELLE, FL

FAN - Exhaust

Diffuser Ret/Exh (GRD)

PRV1/RESTROOMS

| Asset | | | | | | | | | |
|------------|------------|------|-------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| EGRD1 | MEN'S RR | EG1 | 10X10 | 150 | 1 | 173 | 149 | 151 | 100.7 |
| EGRD2 | WOMEN'S RR | EG1 | 10X10 | 150 | 1 | 214 | 171 | 154 | 102.7 |
| Total | | | | 300 | | 387 | 320 | 305 | 101.67% |



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: FAN - Exhaust

Asset: PRV2

AREA:HOOD 1

| Unit Data | | |
|---------------|-------------|-------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Model Num | DU85HFA | DU85HFA |
| Serial Num | - | 6301204 |
| Type | UPBLAST | UPBLAST |
| Configuration | VERTICAL | VERTICAL |

| Motor Data | | |
|------------------|--------|-------------|
| | Design | Actual |
| Motor MFG | - | TELCO GREEN |
| Frame | - | NL |
| Horsepower | - | 3/4 |
| Motor Rpm | - | 1800 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 8.9 |
| Service Factor | - | NL |

| Test Data | | |
|------------------|--------|---------|
| | Design | Actual |
| CFM | 1500 | 1497 |
| Fan RPM | 1406 | 1206 |
| Fan Rotation | - | CCW |
| Motor RPM | - | 1206 |
| System SetPt | - | 60% |
| RL Voltage | - | 121 |
| RL Amperage | - | 5.8 |
| Total ESP | 1.412' | 0.598" |
| Fan Inlet SP | - | -0.598" |
| Fan Discharge SP | - | ATM |

Completed By: Mark Johnson on 11/26/2024



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: FAN - Exhaust

Asset: PRV3

AREA:HOOD 2

| Unit Data | | |
|---------------|-------------|-------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Model Num | DU85HFA | DU85HFA |
| Serial Num | - | 6301204 |
| Type | UPBLAST | UPBLAST |
| Configuration | VERTICAL | VERTICAL |

| Motor Data | | |
|------------------|--------|-------------|
| | Design | Actual |
| Motor MFG | - | TELCO GREEN |
| Frame | - | NL |
| Horsepower | - | 3/4 |
| Motor Rpm | - | 1800 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 8.9 |
| Service Factor | - | NL |

| Test Data | | |
|------------------|--------|---------|
| | Design | Actual |
| CFM | 1500 | 1555 |
| Fan RPM | 1348 | 1142 |
| Fan Rotation | - | CCW |
| Motor RPM | - | 1142 |
| System SetPt | - | 57% |
| RL Voltage | - | 121 |
| RL Amperage | - | 4.8 |
| Total ESP | 1.250" | 0.413" |
| Fan Inlet SP | - | -0.413" |
| Fan Discharge SP | - | ATM |

Completed By: Mark Johnson on 11/25/2024



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:

| Unit Data | | |
|------------------|-------------|----------------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Model Num | 3347 BD-2 | 3347 BD-2 |
| Job / Serial Num | - | 6301204 |
| Type | TYPE I | TYPE I LOW PROXIMITY |
| Hood length | 66" | 66" |
| Hood Width | 33" | 33" |

| 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 | - | 229 |
| Filter2 FPM | - | 233 |
| Filter3 FPM | - | 230 |
| Filter4 FPM | - | 234 |
| Filter Ave FPM(corr) | - | 231 |
| CFM | 1500 | 1497 |

| Cooking Equipment | |
|-------------------|---------|
| | Actual |
| Item 1 | GRIDDLE |

Completed By: Mark Johnson on 11/25/2024



National TAB

Project: 11-25-24 CULVERS LABELLE, FL

System/Unit: Kitchen Hood Type I

Asset: HD2

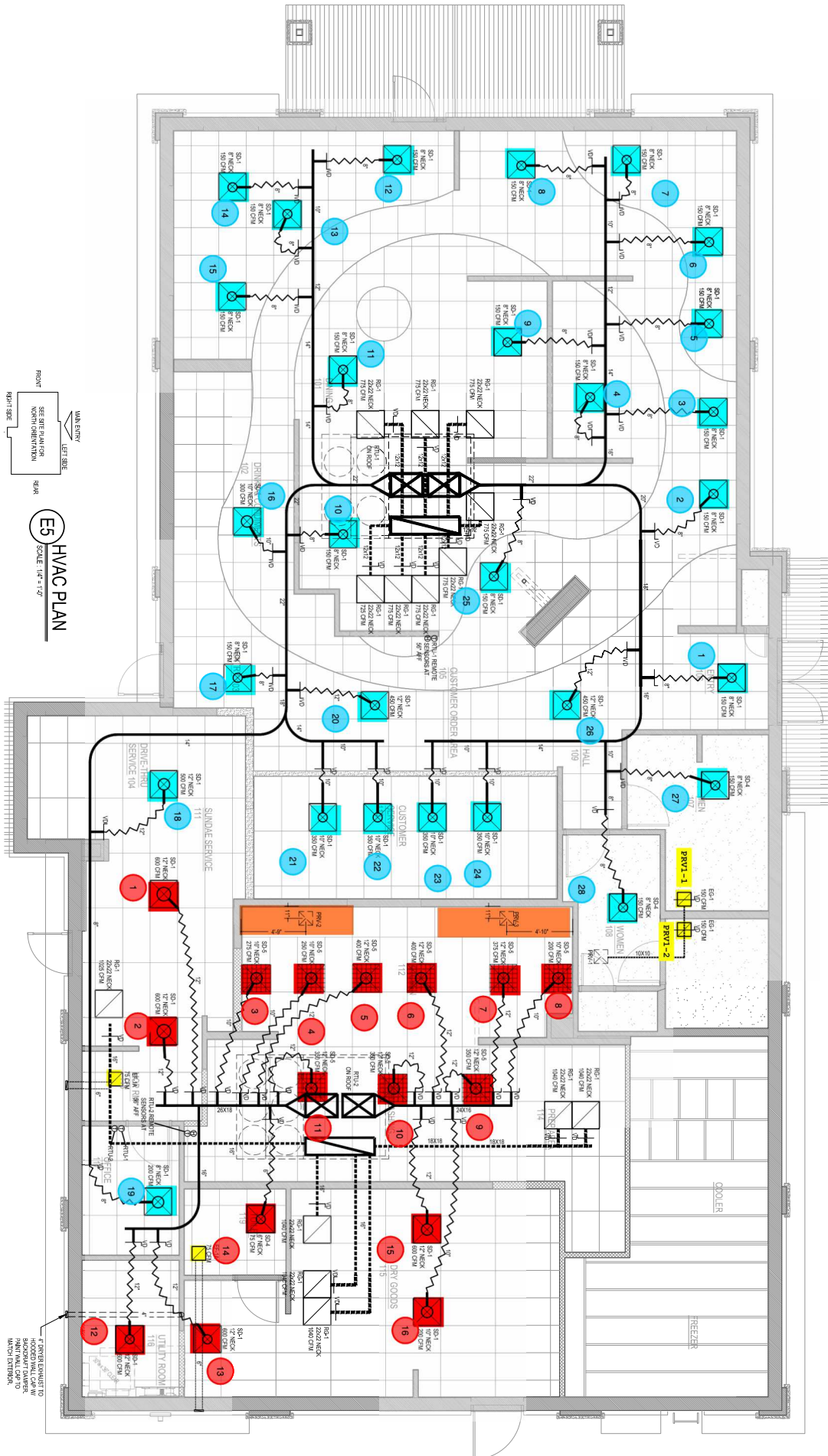
AREA:

| Unit Data | | |
|------------------|-------------|----------------------|
| | Design | Actual |
| MFG | CAPTIVEAIRE | CAPTIVEAIRE |
| Model Num | 3347 BD-2 | 3347 BD-2 |
| Job / Serial Num | - | 6301204 |
| Type | TYPE I | TYPE I LOW PROXIMITY |
| Hood length | 84" | 84" |
| Hood Width | 33" | 33" |

| Test Data Exhaust | | |
|-------------------------|---------------|---------------|
| | Design | Actual |
| Filter Type | CAPTRATE SOLO | CAPTRATE SOLO |
| Filter Size 1 | 16x16 | 16x16 |
| Filter Qty 1 | 5 | 5 |
| Filter AK factor size 1 | 1.62 | 1.62 |
| Filter Total AK Area | 8.10 | 8.10 |
| Filter1 FPM | - | 189 |
| Filter2 FPM | - | 190 |
| Filter3 FPM | - | 198 |
| Filter4 FPM | - | 184 |
| Filter5 FPM | - | 201 |
| Filter Ave FPM(corr) | - | 192 |
| CFM | 1500 | 1555 |

| Cooking Equipment | |
|-------------------|--------|
| | Actual |
| Item 1 | FRYER |

Completed By: Mark Johnson on 11/25/2024



E5 HVAC PLAN
SCALE: 1/4" = 1'-0"