

**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: 12/13/2022**

**PROJECT  
12-05 CULVERS - LAKE CITY, FL**

394 NW COMMONS LOOP

LAKE CITY , FL 32055

**Client**

Accurex

PO Box 410

Schofield, WI 54476

# National TAB

Project: 12-05 CULVERS - LAKE CITY, 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.



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## 12-05 CULVERS - LAKE CITY, FL

### Project Issue Information

**Issue Name :** RTU3 CFM is above design.

**Description :** Currently operating at 4062 CFM out of a designed 3250 CFM. Motor sheave turned to minimum setting, however airflow is still too high and motor is overramping. Recommended replacing fan sheave to a BK90 with 1.1875" bore. New fan sheave will require a BX57 or BX58 belt. Airflows set proportionally high so that once changed, airflow be within design.

**Created By :** National TAB

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

**Status :** Open

**Originated Date :** 12/08/2022 - Ian Fuller - National TAB

#### Project Issue Response Details

- **12/20/2022 National TAB - Will Turnbough**
  - Mechanical contractor changed the pulley. Calculating new CFM based on fan law.

- **12/08/2022 National TAB - Ian Fuller**



RTU.jpeg

### 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	5200	5206	4300	4290	900	916	17.3%	17.6%						
RTU-2	KITCHEN	5000	5130	4050	4151	950	979	19.0%	19.1%						
RTU-3OA	OA RTU	3250	3192	1250	1133	2000	2059	61.5%	64.5%						
PRV-2	HD1 GRIDDLE											1500	1507		
PRV-3	HD2 FRYERS											1500	1480		
PRV-4	HD3 DISH											350	362		
EF-1	MENS RR													220	201
EF-2	MOP ROOM													50	53
EF-3 (3)	WOMENS/EMPL. RR													210	208
<b>TOTALS</b>		13450	13528	9600	9574	3850	3954			0	0	3350	3349	480	462

#### NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3850	3954
TOTAL EXHAUST	3830	3811
<b>NET AIRFLOW</b>	20	143

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.0024
SIDE	0.0014
REAR	0.0174
<b>AVERAGE</b>	<b>0.0071</b>

#### FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓
- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓
- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:



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## 12-05 CULVERS - LAKE CITY, FL

### CheckList Information

**Name :** TECH - SITE PICTURES **Status :** Submitted  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB

### CheckList Item Details

STORE FRONT



Storefront.jpeg

RTU-1



RTU1.jpeg

RTU-2



**RTU2.jpeg**

RTU-30A



**RTUOA.jpeg**

PRV-2



**PRV2.jpeg**

PRV-3



**PRV3.jpeg**

PRV-4



**PRV4.jpeg**

EF-1A



**EF1.jpeg**

HOOD 1



**Hood1.jpeg**

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HOOD 2



**Hood2.jpeg**

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HOOD 3



**Hood3.jpeg**

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PRODIGY BOARD WIRING

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**Wiring.jpeg**

**Notes/Comments :**



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### 12-05 CULVERS - LAKE CITY, FL

#### CheckList Information

**Name :** TECH - STEP 1: INITIAL WALKTHROUGH **Status :** Submitted

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

#### CheckList Item Details

##### INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	YES
Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture)	YES
All hood filters installed and accounted for?	YES
Hoods are wired and have power?	YES
Thermostats have power?	YES
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

#### Notes/Comments :



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### 12-05 CULVERS - LAKE CITY, FL

#### CheckList Information

**Name :** TECH - STEP 2: UNIT DATA AND EVAL **Status :** Submitted

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

#### CheckList Item Details

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

##### RTU's/AHU's

Economizers are assembled and functional?	YES
Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.)	YES
Motors are all operating below the FLA rating?	YES
Are belts tight?	YES
If direct drive unit is the speed controller working.	NA
Is gas piping installed and valves turned on?	NO GAS PIPING
Unit free of noticeable noise and vibration	YES

##### EF's

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

Flex conduit is long enough so that fan can be completely tilted back?	YES
There is no major leakage around base of fan?	NONE OBSERVED
Is the motor operating below the motor FLA rating?	YES
For restroom fan(s) is the back draft damper installed and can it fully open?	YES
Unit free of noticeable noise and vibration?	YES
The hood exhaust fans are installed in correct positions and are not switched?	YES

**HOODS**

Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	YES
Second stage Grease Grabber filters are installed on the griddle hood?	YES

**DOCUMENTATION**

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES
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**Notes/Comments :**

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### 12-05 CULVERS - LAKE CITY, FL

#### CheckList Information

**Name :** TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Submitted

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

#### CheckList Item Details

**TEST, ADJUST, AND BALANCE ALL EQUIPMENT:**

**DURING TESTING MAKE NOTE OF THE FOLLOWING:**

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

**Notes/Comments :**



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## 12-05 CULVERS - LAKE CITY, FL

### CheckList Information

<b>Name :</b>	TECH - STEP 4: FINAL TESTS	<b>Status :</b>	Submitted
<b>Assigned Organization :</b>	National TAB	<b>Asset :</b>	
<b>Requesting Organization :</b>	National TAB		

### CheckList Item Details

#### FINAL TESTS

#### HOOD CAPTURE TEST

List equipment turned on for testing	GRILL/FRYER
List smoke candle type used	45 SECOND SMOKE CANDLE
Smoke test capture - Perimeter of hood	100
Smoke test capture - Top of cooking surface	100

#### WITNESS

Date test was completed	12/08/2022
TAB tech name / Firm	IAN FULLER / NTAB
Site super name / Firm	NOAH / CAMPBELL CONSTRUCTION
Owner representative name / Firm (if Applicable)	NA
Building pressure at front & back doors (All Systems On)	YES

#### ADDITIONAL

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

#### PRODIGY SETTINGS FOR RTU'S

Parameter 65 set to 0	Yes
-----------------------	-----

Parameter 78 set to 0	YES
Parameter 105 set to 6	YES
Parameter 156 set to 70 (Dining unit only)	YES
Parameter 156 set to 65 (Kitchen Unit Only)	YES
Parameter 170 set to 75 (Dining Unit Only)	YES
Parameter 170 set to 70 (Kitchen Unit Only)	YES
Parameter 131 set to the same % as OA minimum position?	YES
Parameter 117 set to the same % as OA minimum position?	YES

**Notes/Comments :**

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# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: AHU/RTU



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Asset: RTU1

AREA: DINING

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622E01872
Model Num	LCH-156-H4B	LCH156H4BE5Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X14
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	56HZ
Horsepower	-	2
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208/230	200-230
Rated Amperage	-	6.0-5.7

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	BK95
Fan Sheave Bore	-	1.1875"
Belt CL Distance	-	20.5"
Num of Belts	-	1
Belt Size	-	BX59
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	5200	5206
SF RPM	-	577
RA CFM	4300	4290
OA CFM	900	916
RL Voltage	-	206/207/206
RL Amperage	-	4.3/4.3/4.1
SF Rotation	-	CCW
RA Damper Position	-	55%
Min OA Damper Position	-	45%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.14"
Fan Suction SP	-	-0.35"
Fan Discharge SP	-	0.32"
Total ESP	-	0.46"
Fan Total SP	-	0.67"

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

Completed By: Ian Fuller

Notes:

# National TAB

Project:12-05 CULVERS - LAKE CITY, FL

## AHU/RTU



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### Diffuser Supply (GRD)

#### RTU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY	A4	6"	100	0.95	122	116	110	110.0
SGRD2	HALL	A4	10"	300	0.95	371	371	315	105.0
SGRD3	WOMENS RR	C3	6"	75	0.95	146	86	74	98.7
SGRD4	MENS RR	C3	6"	75	0.95	150	90	76	101.3
SGRD5	DINING	A4	8"	200	0.95	185	216	196	98.0
SGRD6	DINING	A4	10"	300	0.95	368	372	322	107.3
SGRD7	DINING	A4	10"	250	0.95	287	282	238	95.2
SGRD8	DINING	A4	10"	300	0.95	276	325	272	90.7
SGRD9	DINING	A4	8"	200	0.95	238	235	200	100.0
SGRD10	DINING	A4	8"	150	0.95	206	178	157	104.7
SGRD11	DINING	A4	10"	275	0.95	370	345	287	104.4
SGRD12	DINING	A4	10"	275	0.95	319	316	276	100.4
SGRD13	DINING	A4	8"	150	0.95	241	178	158	105.3
SGRD14	DINING	A3	8"	150	0.95	211	181	165	110.0
SGRD15	DINING	A3	10"	300	0.95	306	346	318	106.0
SGRD16	DRINKS & CONDIMENT S	A3	10"	300	0.95	269	310	281	93.7
SGRD17	DINING	A4	10"	250	0.95	348	261	245	98.0
SGRD18	DRINKS & CONDIMENT S	A4	8"	200	0.95	215	227	203	101.5
SGRD19	EXIT	A4	10"	250	0.95	278	301	252	100.8
SGRD20	ORDERING	A4	10"	300	0.95	298	322	281	93.7
SGRD21	CUSTOMER SERVICE	A4	8"	200	0.95	213	214	202	101.0
SGRD22	CUSTOMER SERVICE	A4	8"	200	0.95	174	210	190	95.0
SGRD23	CUSTOMER SERVICE	A4	8"	200	0.95	197	224	187	93.5
SGRD24	CUSTOMER SERVICE	A4	8"	200	0.95	224	249	201	100.5

Completed By: Brianna Biggs on

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Project: 12-05 CULVERS - LAKE CITY, FL

## System/Unit: AHU/RTU



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Asset: RTU2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622C01943
Model Num	LCH-156-H4B	LCH156H4BE5Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X14
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	56HZ
Horsepower	-	2
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208/230	200-230
Rated Amperage	-	6.0-5.7

Drive Data		
	Design	Actual
Motor Sheave Size	-	MVL40B
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	9.0"
Fan Sheave Bore	-	1.25"
Belt CL Distance	-	21.0"
Num of Belts	-	1
Belt Size	-	BX59
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	5000	5130
SF RPM	-	656
RA CFM	4050	4151
OA CFM	950	979
RL Voltage	-	208/208/208
RL Amperage	-	5.2/5.3/5.4
SF Rotation	-	CCW
RA Damper Position	-	35%
Min OA Damper Position	-	65%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.22"
Fan Suction SP	-	-0.47"
Fan Discharge SP	-	0.35"
Total ESP	-	0.57"
Fan Total SP	-	0.82"

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

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL

## AHU/RTU



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### Diffuser Supply (GRD)

#### RTU2/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	COOKLINE	E4	10"	300	0.95	397	299	299	99.7
SGRD2	COOKLINE	E4	10"	350	0.95	387	347	347	99.1
SGRD3	COOKLINE	E4	10"	300	0.95	278	306	306	102.0
SGRD4	FOOD PREP	E4	10"	300	0.95	217	270	270	90.0
SGRD5	COOKLINE	E4	10"	350	0.95	294	326	326	93.1
SGRD6	COOKLINE	E4	10"	300	0.95	354	322	322	107.3
SGRD7	FOOD PREP	A4	10"	300	0.95	337	324	324	108.0
SGRD8	DISHWASH H	A4	10"	350	0.95	358	380	380	108.6
SGRD9	FOOD PREP	A4	9"	300	0.95	374	329	329	109.7
SGRD10	DRIVE THRU	A4	12"	500	0.95	522	548	548	109.6
SGRD11	SUNDAE PREP	A4	9"	275	0.95	330	301	301	109.5
SGRD12	MOP ROOM	E4	12"	550	0.95	467	502	502	91.3
SGRD13	OFFICE	D1	9"	300	0.95	361	317	317	105.7
SGRD14	DRY GOOD	A4	8"	200	0.95	238	209	209	104.5
SGRD15	DRY GOOD	A4	8"	150	0.95	203	161	161	107.3
SGRD16	EMPLOYEE RR	C1	4"	25	0.95	88	25	25	100.0
SGRD17	UTILITY ROOM	D1	7"	150	0.95	263	164	164	109.3

Completed By: Brianna Biggs on

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Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: AHU/RTU



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Asset: RTU-OA3

AREA:OA TO RTU'S

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5622E03277
Model Num	LCH-156-H4B	LCH156H4BJ5Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	30.5X17
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	56HZ
Horsepower	-	2
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208/230	200-230
Rated Amperage	-	6.0-5.7

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	6 TURNS OUT
Fan Sheave Size	-	BK90
Fan Sheave Bore	-	1.1875
Belt CL Distance	-	20.5"
Num of Belts	-	1
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	3250	3192
SF RPM	-	546
RA CFM	1250	1133
OA CFM	2000	2059
RL Voltage	-	206/206/206
RL Amperage	-	5.4 AVG
SF Rotation	-	CCW
RA Damper Position	-	90%
Min OA Damper Position	-	100%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	Actual

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

Completed By: Will Turnbough

Notes: 695 RPM INITIAL BK72 INITIAL

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



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Asset: EF1

AREA:MENS RR

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	SPA-110	XCR-A200
<b>Serial Num</b>	-	20766682
<b>Type</b>	CEILING	CEILING
<b>Configuration</b>	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	GREENHECK
<b>Frame</b>	-	N/L
<b>Horsepower</b>	-	1/40
<b>Motor Rpm</b>	-	625
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	0.46
<b>Service Factor</b>	-	N/L

Test Data		
	Design	Actual
<b>CFM</b>	220	201
<b>Fan RPM</b>	700	DD
<b>Fan Rotation</b>	-	CCW
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	HIGHEST SETTING
<b>RL Voltage</b>	-	115
<b>RL Amperage</b>	-	0.38
<b>Total ESP</b>	0.10"	NA

Completed By: Ian Fuller

Notes:

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Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF2

AREA:MOP ROOM

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	SPA-110	XCR-B50
Serial Num	-	20766690
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICLE

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	625
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.13
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	50	53
Fan RPM	700	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	MAX
RL Voltage	-	115
RL Amperage	-	0.13
Total ESP	0.10"	NA
Fan Discharge SP	-	NA

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A3

AREA:WOMEN RR

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B70	XCR-B70
Serial Num	-	20766695
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICLE

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	675
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.15
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	70	69
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	MAX
RL Voltage	-	116
RL Amperage	-	0.13
Total ESP	0.100"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-B3

AREA:WOMENS RR

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XCR-B70	XCR-B70
<b>Serial Num</b>	-	20766696
<b>Type</b>	CEILING	CEILING
<b>Configuration</b>	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	GREENHECK
<b>Frame</b>	-	N/L
<b>Horsepower</b>	-	N/L
<b>Motor Rpm</b>	-	675
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	0.15
<b>Service Factor</b>	-	N/L

Test Data		
	Design	Actual
<b>CFM</b>	70	69
<b>Fan RPM</b>	-	DD
<b>Fan Rotation</b>	-	CCW
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	MAX
<b>RL Voltage</b>	-	115
<b>RL Amperage</b>	-	0.13
<b>Total ESP</b>	0.100"	NA
<b>Fan Inlet SP</b>	-	NA
<b>Fan Discharge SP</b>	-	NA

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-C3

AREA:EMPLOYEE RR

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B70	XCR-B70
Serial Num	-	20766694
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	675
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.15
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	70	70
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	HIGHEST SETTING
RL Voltage	-	115
RL Amperage	-	0.13
Total ESP	0.100"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV-2

AREA:HOOD 1 GRIDDLE

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XRUB-161XP-15	XCUE-140-10-V6-1-26-6
<b>Serial Num</b>	-	20769541
<b>Type</b>	UPBLAST	UPBLAST
<b>Configuration</b>	VERTICAL	VERTICAL

Test Data		
	Design	Actual
<b>CFM</b>	1500	1480
<b>Fan RPM</b>	2411	DD
<b>Fan Rotation</b>	-	CCW
<b>Motor RPM</b>	-	DD
<b>RL Voltage</b>	-	211
<b>RL Amperage</b>	-	6.4
<b>Suction ESP</b>	-	-1.20"
<b>Discharge ESP</b>	-	ATM
<b>Total ESP</b>	2.337"	1.20"

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	VERI-GREEN
<b>Frame</b>	-	N/L
<b>Horsepower</b>	1.5	1
<b>Motor Rpm</b>	1725	300-1750
<b>Phase</b>	3	1
<b>Voltage (rated)</b>	208	115/208-230/277
<b>Amperage (rated)</b>	-	11.5/7.0/5.8
<b>Service Factor</b>	-	N/L

Drive Data		
	Design	Actual
<b>Motor Sheave Size</b>	-	DD
<b>Motor Bore Size</b>	-	DD
<b>Motor Sheave SetPt</b>	-	DD
<b>Fan Sheave Size</b>	-	DD
<b>Fan Sheave Bore</b>	-	DD
<b>Belt CL Distance</b>	-	DD
<b>Num of Belts</b>	-	DD
<b>Belt Size</b>	-	DD

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV-3

AREA:HOOD 2 FRYER

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUB-141-7	XCUE-140-10-V6-1-26-6
Serial Num	-	20769542
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VERI-GREEN
Frame	-	N/L
Horsepower	0.75	1
Motor Rpm	1725	300-1750
Phase	3	1
Voltage (rated)	208	115/208-230/277
Amperage (rated)	-	11.5/7.0/5.8
Service Factor	-	N/L

Drive Data		
	Design	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

Test Data		
	Design	Actual
CFM	1500	1507
Fan RPM	1377	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
RL Voltage	-	211
RL Amperage	-	4.4
Suction ESP	-	-0.71"
Discharge ESP	-	ATM
Total ESP	1.0"	0.71"

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL  
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV-4

AREA:HD3 DISH

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XRED-090-D	XRED-095-D-8-1-17-X
<b>Serial Num</b>	-	20768034
<b>Type</b>	DOWNBLAST	DOWNBLAST
<b>Configuration</b>	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	MCMILLAN ELECTRIC COMPANY
<b>Frame</b>	-	NL
<b>Horsepower</b>	0.0667"	0.125
<b>Motor Rpm</b>	1550	1550/1300/1050
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	2.6
<b>Service Factor</b>	-	N/L

Test Data		
	Design	Actual
<b>CFM</b>	350	362
<b>Fan RPM</b>	1532	DD
<b>Fan Rotation</b>	-	CCW
<b>Motor RPM</b>	-	1050
<b>System SetPt</b>	-	LOWEST SETTING
<b>RL Voltage</b>	-	115
<b>RL Amperage</b>	-	1.2
<b>Total ESP</b>	0.6"	0.26"
<b>Fan Inlet SP</b>	-	-0.26"
<b>Fan Discharge SP</b>	-	ATM

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL

## System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XXEP-6.92-S	XXEP-83.00-S
<b>Job / Serial Num</b>	-	20807642
<b>Type</b>	TYPE I LOW PROXIMITY	TYPE 1 LOW PROXIMITY
<b>Hood length</b>	83"	83"
<b>Hood Width</b>	23"	23"

Test Data Exhaust		
	Design	Actual
<b>Filter Type</b>	X-TRACTOR	X-TRACTOR
<b>Filter Size 1</b>	16X16	16X16
<b>Filter Qty 1</b>	5	5
<b>Filter AK factor size 1</b>	1.53	1.53
<b>Filter Total AK Area</b>	7.65	7.65
<b>Filter1 FPM</b>	-	-206.9
<b>Filter2 FPM</b>	-	-191.3
<b>Filter3 FPM</b>	-	-226.1
<b>Filter4 FPM</b>	-	-209.4
<b>Filter5 FPM</b>	-	-252.7
<b>Filter Ave FPM(corr)</b>	-	197
<b>CFM</b>	1500	1507

Cooking Equipment		
	Design	Actual
<b>Item 1</b>	-	FRYER

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL

## System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	ZGEP-5.33-S	XGEP-64.00-S
Job / Serial Num	-	2-8-7643
Type	TYPE I LOW PROXIMITY	TYPE 1 LOW PROXIMITY
Hood length	64"	64"
Hood Width	23"	23"

Test Data Exhaust		
	Design	Actual
Filter Type	GREASE GRABBER	GREASE GRABBER
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	6.12	6.12
Filter1 FPM	-	-273.1
Filter2 FPM	-	-275.3
Filter3 FPM	-	-251.7
Filter4 FPM	-	-263.1
Filter Ave FPM(corr)	-	242
CFM	1500	1480

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

Completed By: Ian Fuller

Notes:

# National TAB

Project: 12-05 CULVERS - LAKE CITY, FL

## System/Unit: Kitchen Hood Type II



Comfort. Under control.

Asset: HD3

AREA:

Unit Data		
	Design	Actual
<b>MFG</b>	ACCUREX	ACCUREX
<b>Model Num</b>	XD3-3.5-S	XD3-42.00-S
<b>Serial Num</b>	-	20807638
<b>Type</b>	TYPE II CANOPY	TYPE II CANOPY
<b>Hood length</b>	42"	42"
<b>Hood Width</b>	42"	42"

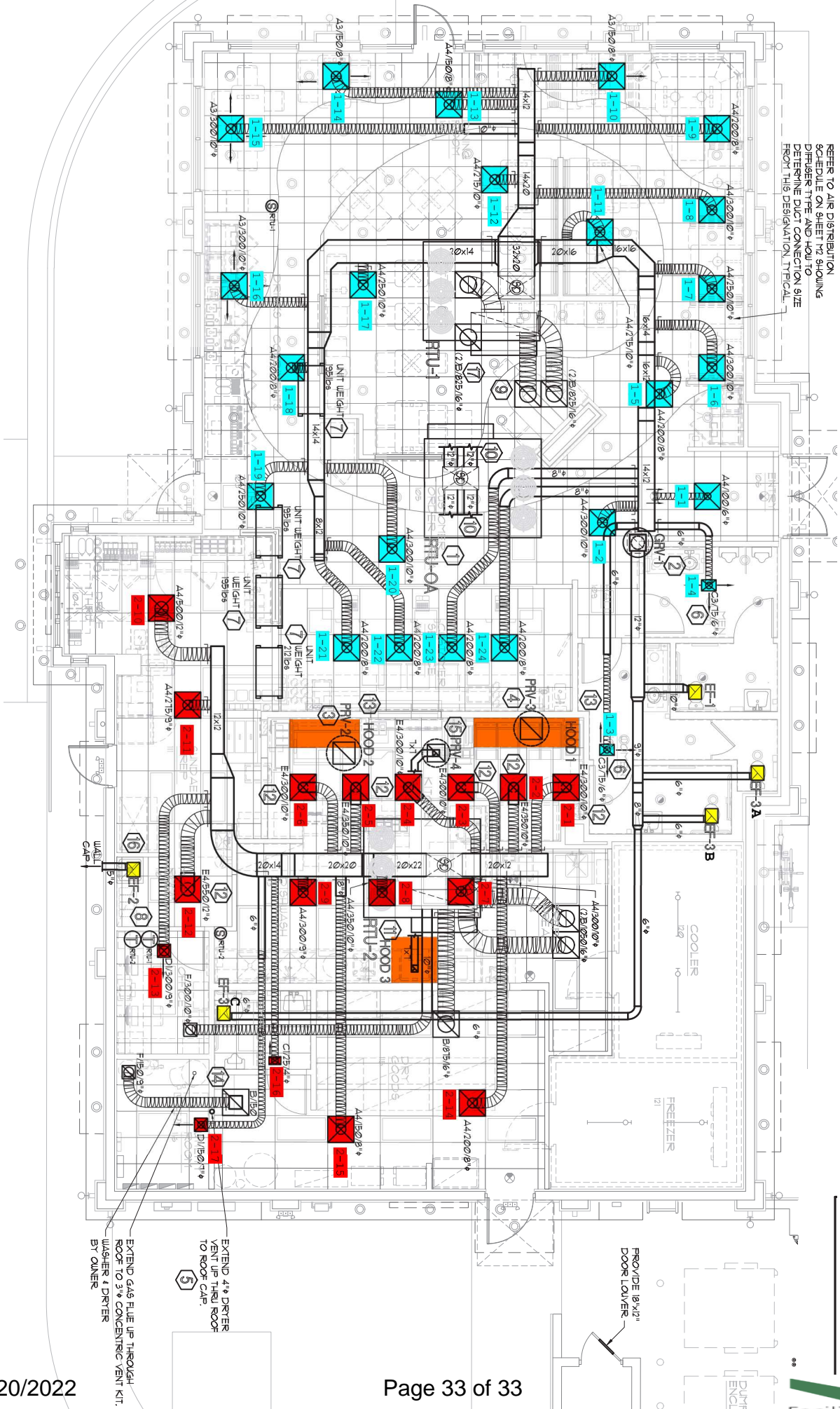
Test Data		
	Design	Actual
<b>Exhaust VEL(corr)</b>	-	1065
<b>Exhaust CFM</b>	350	362

Cooking Equipment		
	Design	Actual
<b>Item 1</b>	-	DISHWASHER

Completed By: Ian Fuller

Notes:

REFER TO AIR DISTRIBUTION  
 SCHEDULE ON SHEET M2 SHOWING  
 DIFFUSER TYPE AND HOW TO  
 DETERMINE DUCT CONNECTION SIZE  
 FROM THIS DESIGNATION TYPICAL.



EXTEND GAS FLUE UP THROUGH  
 ROOF TO 3" CONCENTRIC VENT KIT.  
 WASHER & DRYER  
 BY OWNER

EXTEND 4" DRYER  
 VENT UP THRU ROOF  
 TO ROOF CAP

5

PROVIDE 18"x21"  
 DOOR LOWER