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: 12/20/2022

PROJECT

11-21 CULVERS - PUNTA GORDA, FL

26440 JONES LOOP RD

PUNTA GORDA, FL 33950

Client

Accurex

PO Box 410

Schofield, WI 54476

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

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)
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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11-21 CULVERS - PUNTA GORDA, FL

Project Issue Information

Issue Name : AC2 is above designed cfm

Description : RTU2 is currently at 7328 out of a designed 5000 cfm. Cannot turn down due to motor sheave being stuck in place.

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

Status : Closed

Originated Date : 11/23/2022 - Ian Fuller - National TAB

Project Issue File Details

FuseIT3549d9df088541d...

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11-21 CULVERS - PUNTA GORDA, FL

Project Issue Information

Issue Name : RTU#1 has high flow

Description : AC1 has 7649 cfm out of a designed 5200 cfm. Cannot turn down RTU cfm due to motor sheave stuck in place.

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

Status : Closed

Originated Date : 11/23/2022 - Ian Fuller - National TAB

Project Issue File Details

FuseITd9c3ba2ffc48479...

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11-21 CULVERS - PUNTA GORDA, FL

Project Issue Information

Issue Name : RTU#2 motor access door is damaged.

Description : The door is bent and is starting to shear on sides. Mechanical has ordered replacement door, but it has not yet arrived.

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

Status : Open

Originated Date : 11/28/2022 - Ian Fuller - National TAB

Project Issue File Details

Doorinside.jpeg

Dooroutside.jpeg

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11-21 CULVERS - PUNTA GORDA, FL

Project Issue Information

Issue Name : RTU2 motor access door is damaged.

Description : Door is bent and is starting to shear on the sides.

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

Status : Closed

Originated Date : 11/23/2022 - Ian Fuller - National TAB

Project Issue File Details

FuseIT1f2209c3b98c46e...

FuseITd83cb84a02a146c...

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11-21 CULVERS - PUNTA GORDA, FL

Project Issue Information

Issue Name : RTUOA IS MISSING OA filters

Description : Recommend installing to prevent debris, moisture, and animals from entering the unit.

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

Status : Open

Originated Date : 11/23/2022 - Ian Fuller - National TAB

Project Issue File Details

FuseITea3e59d302ae408...

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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	DINNING	5200	5117	4300	4271	900	846	17.3%	16.5%						
RTU-2	KITCHEN	5000	5320	4050	4359	950	961	19.0%	18.1%						
RTU-OA	ROOF	3250	3542	1250	1422	2000	2120	61.5%	59.9%						
PRV 2	KITCHEN											1500	1475		
PRV 3	KITCHEN											1500	1513		
PRV 4	KITCHEN											350	384		
EF-1	RESTROOM													220	210
EF-2	MOP ROOM													50	45
EF-3	RESTROOM													70	74
TOTALS		13450	13979	9600	10052	3850	3927			0	0	3350	3372	340	329

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3850	3927
TOTAL EXHAUST	3690	3701
NET AIRFLOW	160	226

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.0109
SIDE	0.0127
REAR	0.0039
AVERAGE	**0.0092**

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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11-21 CULVERS - PUNTA GORDA, FL

CheckList Information

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

CheckList Item Details

RTU-1

RTU1.jpeg

RTU-2

RTU2.jpeg

RTU-OA

RTUOA.jpeg

PRV-2

PRV2.jpeg

PRV3

PRV3.jpeg

PRV-4

PRV4.jpeg

EF-1

EF1.jpeg

EF-2

EF2.jpeg

EF-3

EF3-1.jpeg

EF3-2.jpeg

EF3-3.jpeg

HOOD-1

HOOD1.jpeg

HOOD-2

HOOD2.jpeg

HOOD -3

Hood3.jpeg

Notes/Comments :

Comfort. Under control.

11-21 CULVERS - PUNTA GORDA, 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
All hood filters installed and accounted for?	YES
Hoods are wired and have power?	YES
Hood is free of alarms?	YES
Thermostats have power?	YES
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

Comfort. Under control.

11-21 CULVERS - PUNTA GORDA, 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
DCV Max damper opening position is set to minimum?	YES
Free cooling enthalpy set point set for lowest setting (Typically "D")	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?	YES
Grease cup installed on hood fan?	YES
Hinge kit installed installed on hood fan?	YES
Lean fan 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
MUA	
Rotation is correct?	NA
Gas piping is installed and valves are in on position?	NA
Heater tested and is functional?	NA
Internal motorized damper is fully opening?	NA
Motor is operating below the FLA rating?	NA
Unit free of noticeable noise and vibration?	NA
HOODS	
Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	YES
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

Comfort. Under control.

11-21 CULVERS - PUNTA GORDA, 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 :

Comfort. Under control.

11-21 CULVERS - PUNTA GORDA, FL

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	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	11/28/2022
TAB tech name / Firm	IAN FULLER/NTAB
Site super name / Firm	JOE/ CAMBELL 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 :

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU1 AREA:DINNING

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622D00602
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	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208/230	200-230
Rated Amperage	-	8.0-7.8

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3.75”
Motor Bore Size	-	0.875”
Motor Sheave SetPt	-	6 TURN OUT
Fan Sheave Size	-	7.0”
Fan Sheave Bore	-	1.25”
Belt CL Distance	-	20.75”
Num of Belts	-	1
Belt Size	-	BX55
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	5200	5117
SF RPM	-	707
RA CFM	4300	4271
OA CFM	900	846
RL Voltage	-	210/209/211
RL Amperage	-	6.0/5.8/5.6
SF Rotation	-	CCW
RA Damper Position	-	60%
Min OA Damper Position	-	40%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.15”
Fan Suction SP	-	-0.33”
Fan Discharge SP	-	0.83”
Total ESP	-	0.98
Fan Total SP	-	1.16"

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

Completed By: Ian Fuller

Notes:

National TAB

Project:11-21 CULVERS - PUNTA GORDA, FL

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU1/DINNING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU1-SGRD1	ENTRY	A4	8"	150	0.95	170	184	142	94.7
RTU1-SGRD2	DINING	A4	8"	150	0.95	142	175	162	108.0
RTU1-SGRD3	DINING	A3	10"	300	0.95	253	273	271	90.3
RTU1-SGRD4	DINING	A4	10"	250	0.95	181	189	246	98.4
RTU1-SGRD5	DINING	A3	10"	300	0.95	611	407	307	102.3
RTU1-SGRD6	DINING	A3	10"'	225	0.95	662	430	204	90.7
RTU1-SGRD7	DINING	A4	8"	200	0.95	406	277	219	109.5
RTU1-SGRD8	DINING	A4	10"	275	0.95	0	100	270	98.2
RTU1-SGRD9	DINING	A4	8"	200	0.95	431	294	203	101.5
RTU1-SGRD10	DINING	A3	10"	225	0.95	612	426	241	107.1
RTU1-SGRD11	DINING	A4	10"	275	0.95	531	355	284	103.3
RTU1-SGRD12	DINING	A3	10"	300	0.95	599	371	297	99.0
RTU1-SGRD13	DINING	A2	10"	300	0.95	465	438	310	103.3
RTU1-SGRD14	DINING	A4	10"	250	0.95	363	264	211	84.4
RTU1-SGRD15	DINING	A4	10"	250	0.95	460	447	268	107.2
RTU1-SGRD16	DINING	A4	10"	300	0.95	384	375	300	100.0
RTU1-SGRD17	DINING	E	8"	200	0.95	303	293	184	92.0
RTU1-SGRD18	DINING	E	8"	200	0.95	261	259	207	103.5
RTU1-SGRD19	DINING	E	8"	200	0.95	155	170	186	93.0
RTU1-SGRD20	DINING	A4	10"	300	0.95	283	332	286	95.3
RTU1-SGRD21	DINING	E	8"	200	0.95	189	194	177	88.5
RTU1-SGRD22	DINING	C3	6"	75	0.95	96	113	70	93.3
RTU1-SGRD23	RESTROOM	C3	6"	75	0.95	92	109	72	96.0

Completed By: Wale Odofin on

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622C05516
Model Num	LCH-156H4B	LCH156H4BE5Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICLE
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	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208/230	200-230
Rated Amperage	-	8.0-7.8

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3.75”
Motor Bore Size	-	0.875”
Motor Sheave SetPt	-	6 TURN OUT
Fan Sheave Size	-	7.0”
Fan Sheave Bore	-	1.25”
Belt CL Distance	-	20.75”
Num of Belts	-	1
Belt Size	-	BX55
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	5000	5320
SF RPM	-	705
RA CFM	4050	4359
OA CFM	950	961
RL Voltage	-	212/213/211
RL Amperage	-	6.9/6.5/6.3
SF Rotation	-	CCW
RA Damper Position	-	60%
Min OA Damper Position	-	40%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.21”
Fan Suction SP	-	-0.46”
Fan Discharge SP	-	0.60”
Total ESP	-	0.81"
Fan Total SP	-	1.06"

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

Completed By: Wale Odofin

Notes:

National TAB

Project:11-21 CULVERS - PUNTA GORDA, FL

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

RTU2/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	KITCHEN	F3	10"	300	0.95	471	437	328	109.3
SGRD2	KITCHEN	F4	10"	350	0.95	443	411	379	108.3
SGRD3	KITCHEN	F4	10"	300	0.95	477	430	323	107.7
SGRD4	KITCHEN	F4	10""	300	0.95	318	286	312	104.0
SGRD5	KITCHEN	F4	10"	350	0.95	412	414	359	102.6
SGRD6	KITCHEN	F4	10""	300	0.95	406	408	325	108.3
SGRD7	SUNDAE PRP.	A4	12"	500	0.95	735	710	542	108.4
SGRD8	SUNDAE PRP	A4	10""	300	0.95	440	383	314	104.7
SGRD9	MOP ROOM	F4	12"	550	0.95	550	543	555	100.9
SGRD10	OFFICE	D1	9""	225	0.95	502	371	242	107.6
SGRD11	UTILITY ROOM	D1	8"	150	0.95	363	335	162	108.0
SGRD12	DRY GOODS	A4	8"	200	0.95	300	292	218	109.0
SGRD13	DRY GOODS	A4	10"	300	0.95	490	430	323	107.7
SGRD14	DRY GOODS	A4	10"	350	0.95	501	457	375	107.1
SGRD15	DRY GOODS	A4	8"	350	0.95	442	402	380	108.6
SGRD16	ALCOVE	A4	8""	150	0.95	325	193	158	105.3
SGRD17	ALCOVE	C1	4"	25	0.95	154	124	25	100.0

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Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: AHU/RTU

Comfort. Under control.

Asset: RTU OA3 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5622C02962
Model Num	LCH156H4B	LCH156H4BJ5Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	31X17
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	-	7.0”
Fan Sheave Bore	-	1.25”
Belt CL Distance	-	21.0”
Num of Belts	-	1
Belt Size	-	BX55
Belt Alignment	-	GOOD

Test Data		
	Design	**Actual**
SF CFM	3250	3542
SF RPM	-	669
RA CFM	1250	1422
OA CFM	2000	2120
RL Voltage	-	212/211/213
RL Amperage	-	5.8/5.4/5.9
SF Rotation	-	CCW
RA Damper Position	-	3/4 OPEN
Min OA Damper Position	-	100%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.27”
Fan Suction SP	-	-0.63”
Fan Discharge SP	-	0.31”
Total ESP	-	0.58"
Fan Total SP	-	0.94"

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

Completed By: Ian Fuller

Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF1 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCR-A200	XCR-A200
Serial Num	-	20427364

Test Data		
	Design	**Actual**
CFM	220	210

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Horsepower	CEILING	1/40
Motor Rpm	-	625
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.46

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Notes:

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Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF2 AREA:MOP ROOM

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCR-B50	XCR-B50
Serial Num	-	20427366

Test Data		
	Design	**Actual**
CFM	50	45

Motor Data		
	Design	**Actual**
Motor MFG	-	GRENNHECK
Horsepower	-	N/L
Motor Rpm	-	625
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.13

Completed By: Ian Fuller

Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: EF3 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCRB-70	XCRB-80
Serial Num	-	20726015

Test Data		
	Design	**Actual**
CFM	70	74

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Horsepower	-	1/40
Motor Rpm	-	900
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.16

Completed By: Ian Fuller

Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	ACCURREX	ACCURREX
Model Num	XRUB-161XP15	XRUB-160XP-15-1-26-6
Serial Num	-	20425164
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	56
Horsepower	1.5	1.5
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	4.2/2.1
Service Factor	-	1.15

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	5.25”
Motor Bore Size	-	0.6875”
Motor Sheave SetPt	-	1 TURN OUT
Fan Sheave Size	-	3.5”
Fan Sheave Bore	-	1.0625”
Belt CL Distance	-	6.0”
Num of Belts	-	1
Belt Size	-	AP26

Test Data		
	Design	**Actual**
CFM	1500	1475
Fan RPM	2411	2455
Fan Rotation	-	CW
Motor RPM	-	1765
RL Voltage	-	211/212/209
RL Amperage	-	3.7/3.9
Suction ESP	-	-0.91”
Discharge ESP	-	ATM
Total ESP	2.337"	0.91”

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Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV3 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XRUB141-7	XCUBE-140-7-1-26-6
Serial Num	-	20425165
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	2.3/1.15
Service Factor	-	1.25

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	3.0”
Motor Bore Size	-	0.625”
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	3.75”
Fan Sheave Bore	-	0.8125”
Belt CL Distance	-	5.75”
Num of Belts	-	1
Belt Size	-	A23

Test Data		
	Design	**Actual**
CFM	1500	1513
Fan RPM	1377	1068
Fan Rotation	-	CW
Motor RPM	-	1782
RL Voltage	-	212/211/213
RL Amperage	-	1.53
Suction ESP	-	-0.50”
Discharge ESP	-	ATM
Total ESP	1.0"	0.50”

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Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: FAN - Exhaust

Comfort. Under control.

Asset: PRV4 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XRED-090-D	XRED-090-D
Serial Num	-	20425166
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	MCMILLAN
Frame	-	N/L
Horsepower	0.0667	0.125
Motor Rpm	1550	1550/1300/1050
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.6
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	350	384
Fan RPM	1532	DD
Fan Rotation	-	CW
Motor RPM	-	DD
System SetPt	-	MARKED
RL Voltage	-	113
RL Amperage	-	1.6
Total ESP	0.6"	0.22"
Fan Inlet SP	-	-0.22"
Fan Discharge SP	-	ATM

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Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XXEP692S	XXEP-83.00-S
Job / Serial Num	-	20424914
Type	TYPE I LOW PROXIMITY	TYPE 1 LOW PROXIMITY
Hood length	83	83"
Hood Width	23	23"

Test Data Exhaust		
	Design	**Actual**
Filter Type	XTRACTOR	XTRACTOR
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	7.65	7.65
Filter1 FPM	-	226
Filter2 FPM	-	187
Filter3 FPM	-	216
Filter4 FPM	-	232
Filter5 FPM	-	216
Filter Ave FPM(corr)	-	198
CFM	1500	1513

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

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Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: Kitchen Hood Type I

Comfort. Under control.

Asset: HD2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XGEP533-S	XGEP-64.00-S
Job / Serial Num	-	20424919
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	-	279
Filter2 FPM	-	243
Filter3 FPM	-	263
Filter4 FPM	-	264
Filter Ave FPM(corr)	-	241
CFM	1500	1475

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

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Notes:

National TAB

Project: 11-21 CULVERS - PUNTA GORDA, FL

System/Unit: Kitchen Hood Type II

Comfort. Under control.

Asset: HD3 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XD3-35S	XD3-42.00-S
Serial Num	-	20424910
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	42	42"
Hood Width	42	42"

Test Data		
	Design	**Actual**
Exhaust CFM	350	384

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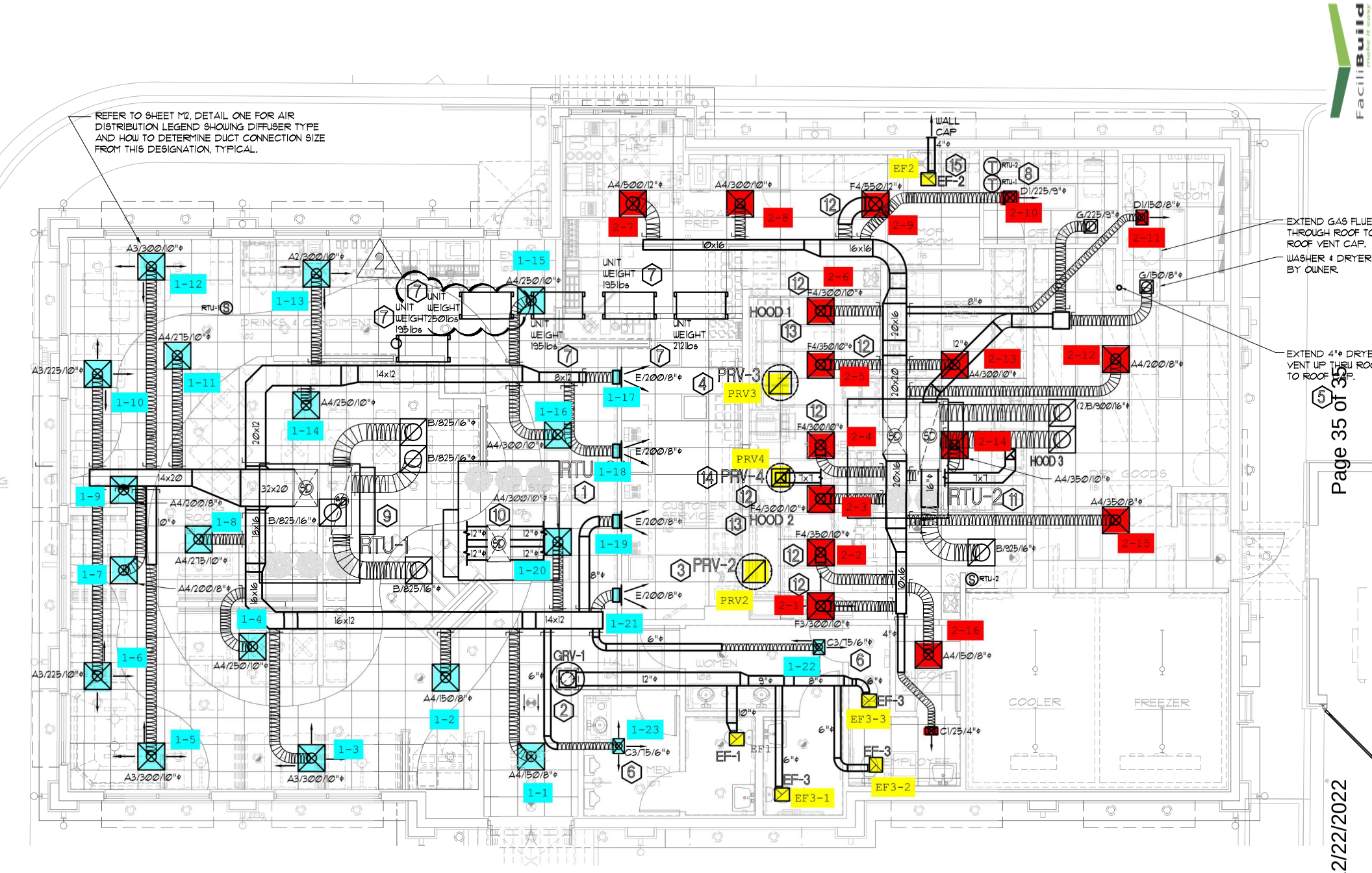
Notes:



Date: 12/22/2022