Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 10/02/2025

Completed By: National TAB

PROJECT

09-29-25 WAWA #6609 STAUNTON, VA

1031 RICHMOND AVENUE

STAUNTON, VA 24401

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 09-29-25 WAWA #6609 STAUNTON, VA

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.

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.

Ceiling Exhaust Fans

The ceiling exhaust fans were measured using a flow hood. If speed adjustment was provided, the fan speed was adjusted to within design tolerance. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests

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

NATIONAL TAB

CORE

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	FOOD SERVICE	4500	4556	3800	3795	700	761	15.6%	16.7%						
RTU-2	RETAIL	3400	3431	3020	3033	380	398	11.2%	11.6%						
RTU-3	FOH	2400	2443	2200	2228	200	215	8.3%	8.8%						
EF-1	RESTROOMS													375	377
EF-2	FOOD SERVICE													400	331
EF-3	TRASH													200	225
TOTALS		10300	10430	9020	9056	1280	1374			0	0	0	0	975	933

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1374
TOTAL EXHAUST	975	933
NET AIRFLOW	305	441

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.016
SIDE	0.0162
REAR	0.0054
AVERAGE	**0.0125**

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: RTU's/AHU's
- 02: LENNOX SETUP PARAMETERS
- 03: SENSOR WIRING (LENNOX)
- 04: EF'S
- 05: CLOSEOUT CHECKS

09-29-25 WAWA #6609 STAUNTON, VA

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/27/2025 - Natasha Louw - National TAB		
Completed Date :	10/02/2025 - Ryan Ash - National TAB		

CheckList Item Details

RTU's/AHU's

All diffusers and grilles are installed and match design?	Pass
Comment:	
Clean filters installed?	Pass
Comment:	
Economizers are assembled and functional?	Pass
Comment:	
Motors are all operating below the FLA rating?	Pass
Comment:	
Are belts tight?	N/A
Comment:	
If direct drive unit is the speed controller working?	Pass
Comment:	
Is gas piping installed and valves turned on?	Pass

Comment:	
Condensate drains are installed?	Pass
Comment:	
Unit free of noticeable noise and vibration	Pass
Comment:	
Final outside air damper position is marked with permanent marker?	Pass
Comment:	
No alarms present?	Fail
Comment: RTU-2 has an Alarm 55 Strike 3 Heat 1 S15 Limit or rollout	
Any noticeable duct leakage?	Pass
Comment:	
Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?	Pass
Comment:	
IN TEST MODE, TEST THE FOLLOWING:	
Cooling mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU-1 EAT:67F/LAT:47F RTU-2 EAT:67F/LAT:49F RTU-3 EAT: 68F/LAT48F	
Heating mode is operational? Record EAT/LAT for each unit:	Fail
Comment: RTU-1 NA RTU-2 FAIL: Alarm 55, See Issue RTU-3 EAT:68F/LAT:91F	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Pass
Comment: RTU-1 EAT:67F/LAT:50F RTU-2 EAT:67F/LAT:47F RTU-3 EAT:68F/LAT:62F	

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CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/27/2025 - Natasha Louw - National TAB		
Completed Date :	10/02/2025 - Ryan Ash - National TAB		

CheckList Item Details

UNIT ID CONFIGURATIONS	
BACNET CONFIGURATION: GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "N".	Pass
Comment:	
NETWORK CONFIGURATION: GO TO SETUP>NETWORK INTEGRATION, SET TO BACNET IP	Pass
Comment:	
CONTROL MODE: SET CONTROL MODE TO ROOM SENSOR: CO2, TEMP & HUMIDITY (PER UNIT, AS NEEDED).	Pass
Comment:	
INDIVIDUAL PARAMETER CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):	
PARAMETER 105 DEHUMID MODE: 7 NO CONDITIONS	Pass
Comment:	
PARAMETER 106 DEHUMID SETPOINT: 50, THIS IS A CENTERED SET POINT (+/-)	Yes
Comment:	
PARAMETER 107 DEHUMID DEADBAND: 3 (DEFAULT) THIS IS THE ACTUAL +/- VALUE	Pass

Comment:

PARAMETER 117 CO2 DAMPER MAX OPEN: 50%	Pass

Comment:

PARAMETER 118 CO2 START OPEN PPM: 1500	Pass

Comment:

PARAMETER 119 CO2 MAX OPEN PPM: 1500	Pass

Comment:

PARAMETER 137 OCCHET SET POINT: 68 (BACK UP)	Pass

Comment:

PARAMETER 131 SET TO THE SAME % AS THE MINMIUM OA DAMPER SETPOINT	Pass

Comment:

PARAMETER 139 OCC COOLING SET POINT: 72 (BACK UP)	Pass

Comment:

PARAMETER 154 OCC BLOWER MODE: ON-CONTINUOUS 1	Pass

Comment:

CFM VALUES / MSAV FAN SPEEDS (AIR BALANCER TO DEFINE / IF APPLICABLE):

OA DAMPER SET TO SAME POSITION IN ALL FAN SPEEDS?	Pass

Comment:

RTU-1: 26% RTU-2: 30% RTU-3: 20%

ALL FAN SPEEDS SET TO THE SAME CFM VALUE (ENTER SETPOINTS BELOW)	Pass

Comment:

RTU-1: 77% RTU-2: 64% RTU-3: 89%

HEAT CFM VALUE: PER THE HVAC SCHEDULE	Pass

Comment:

RTU-1: 77% RTU-2: 64% RTU-3: 89%

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE	Pass

Comment:

RTU-1: 77% RTU-2: 64% RTU-3: 89%

LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE	Pass

Comment:

RTU-1: 77% RTU-2: 64% RTU-3: 89%

VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE	Pass

Comment:

RTU-1: 77% RTU-2: 64% RTU-3: 89%

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CheckList Information

Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/27/2025 - Natasha Louw - National TAB		
Completed Date :	10/02/2025 - Ryan Ash - National TAB		

CheckList Item Details

COMBINATION TEMPERATURE/HUMIDITY SENSOR

Sensors are installed where shown on the drawing?	Pass
Comment:	
2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.	Pass
Comment:	
For second shielded cable, one wire is landed to Vout and the shield wire is not connected.	Pass
Comment:	
Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)	Pass
Comment:	

RTU-1: 42% RTU-2: 42% RTU-3: 46%

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CheckList Information

Name :	04: EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/27/2025 - Natasha Louw - National TAB		
Completed Date :	10/02/2025 - Ryan Ash - National TAB		

CheckList Item Details

EF's

Rotation is correct?	Pass
Comment:	
Belts are tight (if applicable)?	N/A
Comment:	
Speed controller installed and functional (if applicable)?	Pass
Comment:	
There is no major leakage around base of fan?	Pass
Comment:	
Is the motor operating below the motor FLA rating?	Pass
Comment:	
Back draft damper installed and can it fully open?	Pass
Comment:	
Unit free of noticeable noise and vibration?	Pass

Comment:	
Total exhaust flow balanced within +/-5% and grilles are within +/-10%?	Fail
Comment: Issue created	

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CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/27/2025 - Natasha Louw - National TAB		
Completed Date :	10/01/2025 - Ryan Ash - National TAB		

CheckList Item Details

SPACE COMFORT	
Is space free of drafting?	Pass
Comment:	
Is space comfortable in all areas?	Pass
Comment:	
Is the space free of ventilation noise?	Pass
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:	

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Project: 09-29-25 WAWA #6609 STAUNTON, VA

System/Unit: AHU/RTU

Asset: RTU1 AREA:FOOD SERVICE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L06117
Model Num	LCT150H4E	LCT150H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X23
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.75	3.8
Motor Rpm	1780	1780
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.0
Service Factor	-	NL

Test Data		
	Design	**Actual**
SF CFM	4500	4556
SF RPM	-	1371
MOTOR RPM	-	1371
RA CFM	3800	3795
OA CFM	700	761
RL Voltage	-	210.3/212.1/213.2
RL Amperage	-	3.8/3.8/3.8
SF System SetPt	-	77%
RA Damper Position	-	MECHANICAL LINKAGE
RA Damper Type	-	MECHANICAL LINKAGE
OA Damper Position	-	26%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.10”
Fan Suction SP	-	-0.77”
Fan Discharge SP	-	0.48”
Total ESP	0.70"	0.58"
Fan Total SP	-	1.25"

Completed By: Ryan Ash on 10/01/2025

Unit Data - PHOTO LOG

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AHU/RTU

Diffuser Supply (GRD)

RTU1/FOOD SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	FOOD SERVICE	SD-6	10"	425	1	455	438	417	98.1
SGRD2	FOOD SERVICE	SD-6	10"	425	1	457	440	430	101.2
SGRD3	FOOD SERVICE	SD-6	10"	425	1	388	373	413	97.2
SGRD4	FOOD SERVICE	SD-6	10"	425	1	472	454	452	106.4
SGRD5	FOOD SERVICE	SD-6	10"	425	1	428	412	440	103.5
SGRD6	FOOD SERVICE	SD-6	10"	400	1	224	217	410	102.5
SGRD7	FOOD SERVICE	SD-6	10"	400	1	484	467	398	99.5
SGRD8	FOOD SERVICE	SD-6	10"	400	1	456	439	416	104.0
SGRD9	TRASH	SD-1	10"	300	1	457	440	287	95.7
SGRD10	COFFEE	SD-6	12"	500	1	641	617	505	101.0
SGRD11	ELECTRICAL ROOM	SD-1	10"	375	1	401	386	388	103.5
Total				4500		4863	4683	4556	101.24%

Diffuser Ret/Exh (GRD)

RTU1/FOOD SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOOD SERVICE	RG-1	14"	870	1	685	730	785	90.2
EGRD2	FOOD SERVICE	RG-1	14"	865	1	764	824	863	99.8
EGRD3	FOOD SERVICE	RG-1	14"	865	1	725	801	819	94.7
EGRD4	WASHROOM	RG-1	16X14	1200	1	1187	1279	1309	109.1
Total				3800		3361	3634	3776	99.37%

Completed By: Ryan Ash on 10/01/2025

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Project: 09-29-25 WAWA #6609 STAUNTON, VA

System/Unit: AHU/RTU

Asset: RTU2 AREA:RETAIL

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L06428
Model Num	LGT102H4E	LGT102H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X23
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.75	3.8
Motor Rpm	1780	1780
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.0
Service Factor	-	NL

Test Data		
	Design	**Actual**
SF CFM	3400	3431
SF RPM	-	1139
MOTOR RPM	-	1139
RA CFM	3020	3033
OA CFM	380	398
RL Voltage	-	208.9/210.6/211.1
RL Amperage	-	2.5/2.5/2.5
SF System SetPt	-	64%
RA Damper Position	-	MECHANICAL LINKAGE
RA Damper Type	-	MECHANICAL LINKAGE
OA Damper Position	-	30%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.07”
Fan Suction SP	-	-0.54”
Fan Discharge SP	-	0.41”
Total ESP	1.00"	0.48"
Fan Total SP	-	0.95"

Completed By: Ryan Ash on 10/01/2025

Unit Data - PHOTO LOG

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AHU/RTU

Diffuser Supply (GRD)

RTU2/RETAIL

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	SD-2	NL	275	0.68	686	291	271	98.5
SGRD2	DINING	SD-2	NL	275	0.68	442	230	282	102.5
SGRD3	DINING	SD-2	NL	300	0.68	403	214	301	100.3
SGRD4	DINING	SD-2	NL	275	0.68	505	282	277	100.7
SGRD5	DINING	SD-2	NL	275	0.68	482	255	290	105.5
SGRD6	DINING	SD-2	NL	275	0.68	289	158	287	104.4
SGRD7	DINING	SD-2	NL	275	0.68	322	172	278	101.1
SGRD8	DINING	SD-2	NL	275	0.68	382	224	284	103.3
SGRD9	DINING	SD-2	NL	275	0.68	575	310	285	103.6
SGRD10	HALLWAY	SD-1	8"	200	1	225	153	201	100.5
SGRD11	WOMENS RR	SD-5	8"	100	1	243	162	99	99.0
SGRD12	REAR VESTIBULE	SD-5	8"	200	1	189	130	194	97.0
SGRD13	MENS RR	SD-5	8"	150	1	219	154	152	101.3
SGRD14	DELIVERY ROOM	SD-1	8"	250	1	212	144	230	92.0
Total				3400		5174	2879	3431	100.91%

Completed By: Ryan Ash on 10/01/2025

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Project: 09-29-25 WAWA #6609 STAUNTON, VA

System/Unit: AHU/RTU

Asset: RTU3 AREA:FOH

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624M01121
Model Num	LGT072H4E	LGT072H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBM PAPST
Frame	-	NL
Horsepower	1.5	1.5
Motor Rpm	3300	3300
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	4.4
Service Factor	-	NL

Test Data		
	Design	**Actual**
SF CFM	2400	2443
SF RPM	-	2937
MOTOR RPM	-	2937
RA CFM	2200	2228
OA CFM	200	215
RL Voltage	-	209.0/210.4/211.2
RL Amperage	-	3.2/3.2/3.1
SF System SetPt	-	89%
RA Damper Position	-	MECHANICAL LINKAGE
RA Damper Type	-	MECHANICAL LINKAGE
OA Damper Position	-	20%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.54”
Fan Suction SP	-	-0.70”
Fan Discharge SP	-	0.62”
Total ESP	0.50"	1.16"
Fan Total SP	-	1.32"

Completed By: Ryan Ash on 10/01/2025

Unit Data - PHOTO LOG

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Project:09-29-25 WAWA #6609 STAUNTON, VA

AHU/RTU

Diffuser Supply (GRD)

RTU3/FOH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	ENTRANCE	SD-5	8"	250	1	220	258	246	98.4
SGRD2	FOH	SD-2	NL	450	0.68	359	432	458	101.8
SGRD3	FOH	SD-2	NL	450	0.68	359	419	460	102.2
SGRD4	FOH	SD-2	NL	450	0.68	342	381	459	102.0
SGRD5	FOH	SD-2	NL	450	0.68	361	465	477	106.0
SGRD6	ASSOCITES AREA	SD-1	8"	200	1	213	250	197	98.5
SGRD7	OFFICE	SD-1	8"	150	1	238	279	146	97.3
Total				2400		2092	2484	2443	101.79%

Completed By: Ryan Ash on 10/01/2025

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Project: 09-29-25 WAWA #6609 STAUNTON, VA

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6
Serial Num	-	90C15DH
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	0.167	0.125
Motor Rpm	1600	1600
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	375	377
Fan RPM	-	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	33%
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.38"	0.20”
Fan Inlet SP	-	-0.20”
Fan Discharge SP	-	ATM

Completed By: Ryan Ash on 09/30/2025

Unit Data - PHOTO LOG

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Project:09-29-25 WAWA #6609 STAUNTON, VA

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	WOMENS RR	EG-1	8X8	150	1	235	201	158	105.3
EGRD2	MENS RR	EG-1	8X8	225	1	237	204	219	97.3
Total				375		472	405	377	100.53%

Completed By: Ryan Ash on 09/30/2025

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Project: 09-29-25 WAWA #6609 STAUNTON, VA

System/Unit: FAN - Exhaust

Asset: EF2 AREA:FOOD SERVICE

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6
Serial Num	-	90C15DH
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	BERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	0.167	0.125
Motor Rpm	-	1600
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	400	331
Fan RPM	-	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	100%
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.38"	0.48”
Fan Inlet SP	-	-0.48”
Fan Discharge SP	-	ATM

Completed By: Ryan Ash on 10/01/2025

Notes:
EF2 is below design airflow due to incorrect duct size. The mechanical plans call for 8X8in square duct, but 8in diameter circular duct is installed instead. This reduction in flow area caused the increase in static pressure and less than desired air flow.

Written By: Ryan Ash on 10/01/2025

Unit Data - PHOTO LOG

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Project:09-29-25 WAWA #6609 STAUNTON, VA

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/FOOD SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOOD SERVICE	RG-2	8X8	200	1	151	147	180	90.0
EGRD2	FOOD SERVICE	RG-2	8X8	200	1	116	124	151	75.5
Total				400		267	271	331	82.75%

Completed By: Ryan Ash on 10/01/2025

National TAB

Project: 09-29-25 WAWA #6609 STAUNTON, VA

System/Unit: FAN - Exhaust

Asset: EF3 AREA:TRASH

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200
Serial Num	-	S33Q402UB-11
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	QUEACE
Frame	-	NL
Horsepower	0.167	50 W
Motor Rpm	1350	1350
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.0
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	200	225
Fan Rotation	-	CCW
System SetPt	-	Low Speed
RL Voltage	-	120.9
RL Amperage	-	0.8
Fan Discharge SP	-	ATM

Completed By: Ryan Ash on 10/01/2025

Notes:
EF3 is technically above design (225 CFM out of 200 CFM), however, it is wired for the lowest possible speed.

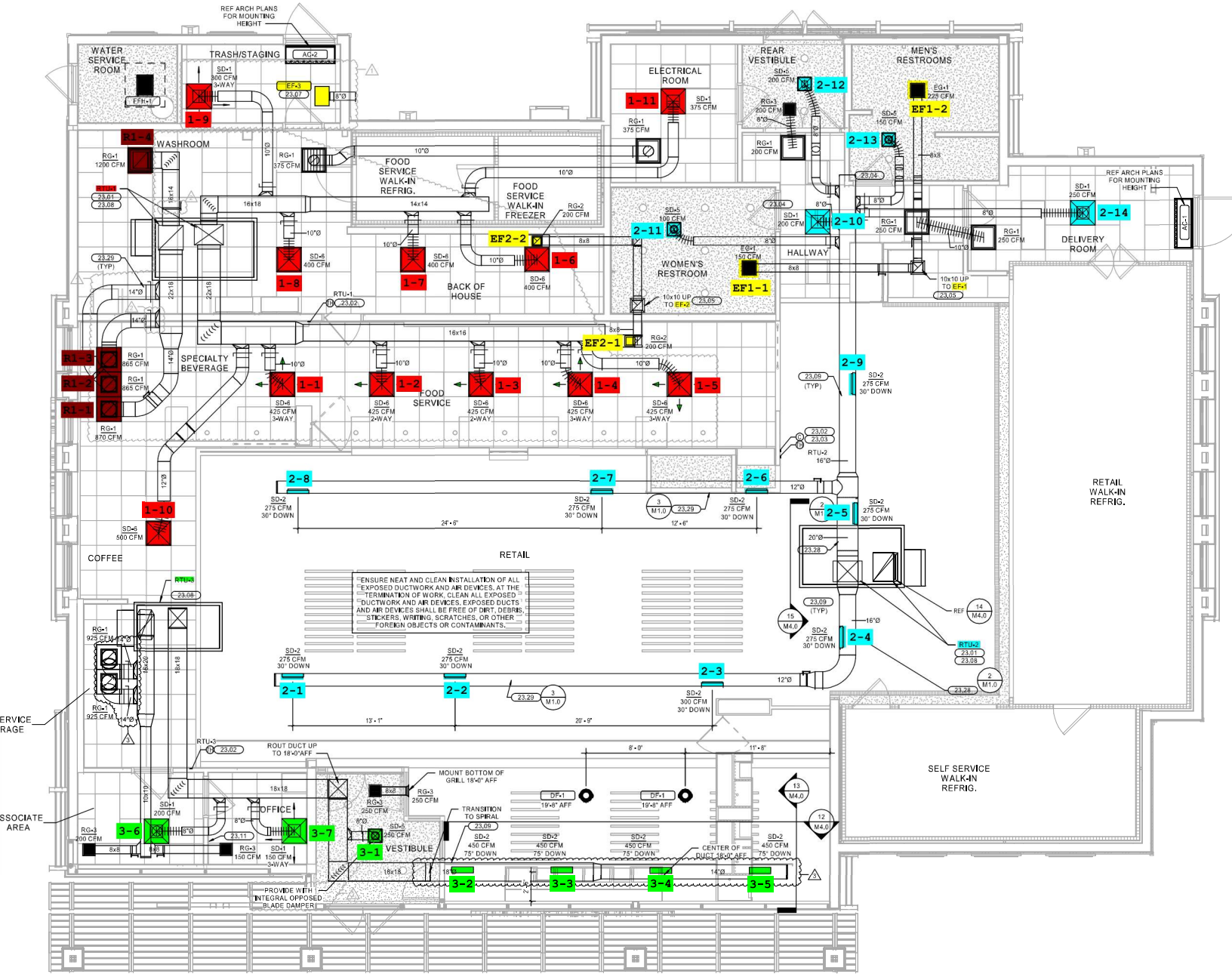
Written By: Ryan Ash on 10/01/2025

Unit Data - PHOTO LOG

09/29/2025

09/29/2025

09/29/2025



1 HVAC FLOOR PLAN

1/4" = 1'-0"

Issue List

- EF2 duct sizing is incorrect
- RTU-2 Alarm 55

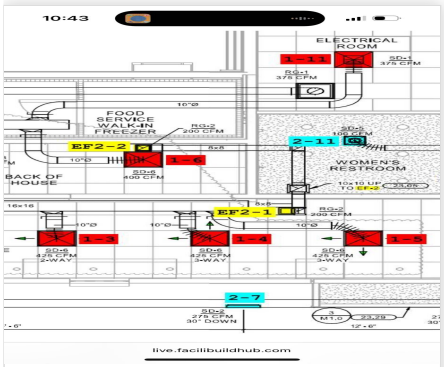
Project Issue Information

Issue Name : EF2 duct sizing is incorrect

Description : The mechanical plans calls for EF2's ductwork to be 8X8in square duct, while the actual duct is 8in diameter round duct. This reduction in flow area caused the exhaust fan to not meet CFM requirements and exceed static pressure expectations.

Created By : National TAB
Assigned To : National TAB - Ryan Ash
Status : Open
Priority : InfoOnly
Asset Tag :
Originated Date : 10/01/2025 - Ryan Ash - National TAB

Project Issue File Details



10/01/2025

10/01/2025

09-29-25 WAWA #6609 STAUNTON, VA

Project Issue Information

Issue Name : RTU-2 Alarm 55

Description : When setting up the RTU, Alarm 55 presented itself when the unit was in heating mode, this caused heating mode to fail. Recommend that the Mechanical or a Lennox technician sees to service it.

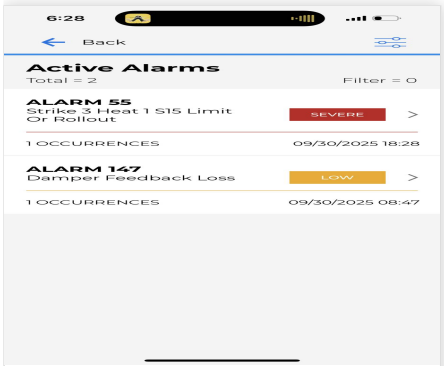
Created By : National TAB **Assigned To :** National TAB - Ryan Ash

Status : Open

Priority : Urgent **Asset Tag :**

Originated Date : 10/01/2025 - Ryan Ash - National TAB

Project Issue File Details



10/01/2025

10/01/2025