Report By:

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

Report: TAB

Function: Test, Adjust, & Balance

Date: 07/01/2025

Completed By: National TAB

PROJECT

06-23-25 WAWA #6112 FAYETTVILLE, NC

3611 RAEFORD ROAD

FAYETTVILLE, NC 28304

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

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.

Issue List

- Diffuser damper out of reach
- EF 1/2 missing dampers
- EF3 not wired or has speed controls
- GAS NOT PIPED TO SITE.
- No backdraft dampers on EF 1/2
- RTU 1 returns missing dampers
- RTU3 OA filter and blower plate not installed

06-23-25 WAWA #6112 FAYETTVILLE, NC

Project Issue Information

Issue Name : Diffuser damper out of reach

Description : RTU 3 diffuser 3-5 damper out of reach, unable to lower diffuser. Currently sitting at 125% of design.

Created By : National TAB

Assigned To : National TAB - Brianna Biggs

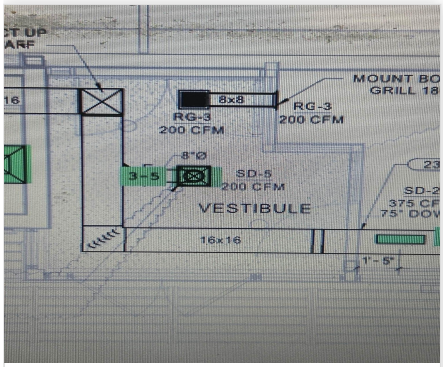
Status : Open

Priority : Low

Asset Tag :

Originated Date : 06/24/2025 - Jearod Ferrette - National TAB

Project Issue File Details



06/24/2025

06-23-25 WAWA #6112 FAYETTVILLE, NC

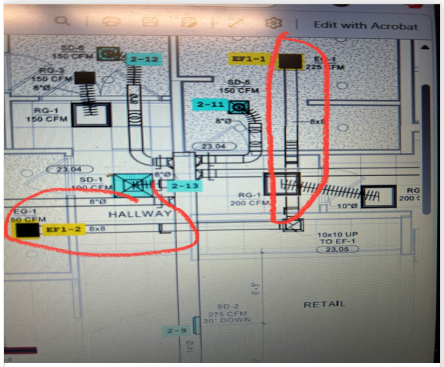
Project Issue Information

Issue Name : EF 1/2 missing dampers

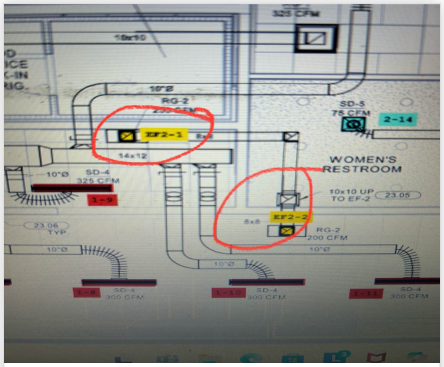
Description : EF1 (Restroom) and EF2 (Kitchen) are missing dampers. No face dampers.

Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Urgent	**Asset Tag :**	HVAC EQUIPMENT 1
Originated Date :	06/23/2025 - Jearod Ferrette - National TAB		

Project Issue File Details



06/23/2025



06/23/2025

06/23/2025

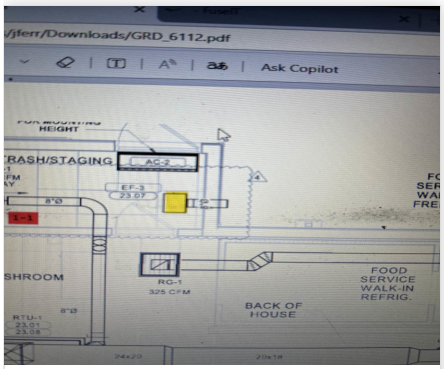
06-23-25 WAWA #6112 FAYETTVILLE, NC

Project Issue Information

Issue Name : EF3 not wired or has speed controls
Description : EF3 not wired or has a speed controller installed.

Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Urgent	**Asset Tag :**	EF3
Originated Date :	06/23/2025 - Jearod Ferrette - National TAB		

Project Issue File Details



06/23/2025

06-23-25 WAWA #6112 FAYETTVILLE, NC

Project Issue Information

Issue Name :	GAS NOT PIPED TO SITE.		
Description :	GAS NOT INSTALLED ON SITE		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Medium	**Asset Tag :**	HVAC EQUIPMENT 1
Originated Date :	06/24/2025 - Jearod Ferrette - National TAB		

06-23-25 WAWA #6112 FAYETTVILLE, NC

Project Issue Information

Issue Name : No backdraft dampers on EF 1/2
Description : Backdraft dampers not installed

Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Urgent	**Asset Tag :**	HVAC EQUIPMENT 1
Originated Date :	06/24/2025 - Jearod Ferrette - National TAB		

Project Issue File Details

06/24/2025

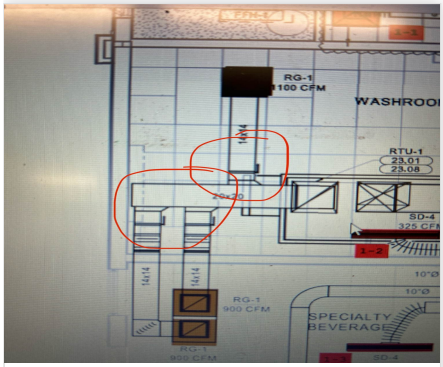
06-23-25 WAWA #6112 FAYETTVILLE, NC

Project Issue Information

Issue Name : RTU 1 returns missing dampers
Description : Return dampers not installed

Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Urgent	**Asset Tag :**	RTU1
Originated Date :	06/23/2025 - Jearod Ferrette - National TAB		

Project Issue File Details



06/23/2025

06-23-25 WAWA #6112 FAYETTVILLE, NC

Project Issue Information

Issue Name : RTU3 OA filter and blower plate not installed
Description : OA filter and blower plate not installed

Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Urgent	**Asset Tag :**	RTU3
Originated Date :	06/23/2025 - Jearod Ferrette - National TAB		

Project Issue File Details

06/23/2025

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 SERVIC	3600	3548	2900	2831	700	717	19.4%	20.2%						
RTU-2	RETAIL	3250	3207	2870	2830	380	377	11.7%	11.8%						
RTU-3	RETAIL/OFFICE	2000	2010	1800	1806	200	204	10.0%	10.1%						
EF-1	RESTROOMS													375	388
EF-2	BOH													400	410
EF-3	TRASH ROOM													200	0
TOTALS		8850	8765	7570	7467	1280	1298			0	0	0	0	975	798

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1298
TOTAL EXHAUST	975	798
NET AIRFLOW	305	500

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.007
SIDE	0.001
REAR	0.001
AVERAGE	**0.003**

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:

Trash room fan not running, please see remarks.

CheckList List

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

06-23-25 WAWA #6112 FAYETTVILLE, NC

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/30/2025 - Tara Metcalf - National TAB		
Completed Date :	06/24/2025 - Jearod Ferrette - 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?	Pass
Comment:	
Any noticeable duct leakage?	Pass
Comment:	
Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?	Fail
Comment: RTU1 RETURN AT 67% OF DESIGN.	
IN TEST MODE, TEST THE FOLLOWING:	
Cooling mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU-1: EAT:73F, LAT: 60F RTU-2 EAT 73F, LAT 67F RTU-3 EAT:72F, LAT: 60F	
Heating mode is operational? Record EAT/LAT for each unit:	Fail
Comment: PER GC GAS HASN'T BEEN PIPED OR INSTALLED	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Fail
Comment: PER GC GAS HASN'T BEEN PIPED OR INSTALLED	

06-23-25 WAWA #6112 FAYETTVILLE, NC

CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/30/2025 - Tara Metcalf - National TAB		
Completed Date :	06/24/2025 - Jearod Ferrette - 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	Fail

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:

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

Comment:

RTU1 63% RTU2 43% RTU3 63%

HEAT CFM VALUE: PER THE HVAC SCHEDULE	N/A

Comment:

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE	N/A
Comment:	
LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE	N/A
Comment:	
VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE	N/A
Comment:	

06-23-25 WAWA #6112 FAYETTVILLE, NC

CheckList Information

Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/30/2025 - Tara Metcalf - National TAB		
Completed Date :	06/24/2025 - Jearod Ferrette - 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:	

06-23-25 WAWA #6112 FAYETTVILLE, NC

CheckList Information

Name :	04: EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/30/2025 - Tara Metcalf - National TAB		
Completed Date :	06/24/2025 - Jearod Ferrette - National TAB		

CheckList Item Details

EF's

Rotation is correct?	Pass
Comment:	
Belts are tight (if applicable)?	Pass
Comment:	
Speed controller installed and functional (if applicable)?	Fail
Comment: EF3 CURRENTLY NOT RUNNING, CONTROLLER NOT INSTALLED	
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?	Fail
Comment: DAMPER NOT INSTALLED ON EF 1/2	

Unit free of noticeable noise and vibration?	Pass
Comment:	
Total exhaust flow balanced within +/-5% and grilles are within +/-10%?	Fail
Comment: EF3 CURRENTLY NOT RUNNING	

06-23-25 WAWA #6112 FAYETTVILLE, NC

CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/30/2025 - Tara Metcalf - National TAB		
Completed Date :	06/24/2025 - Jearod Ferrette - 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:	

FRONT: 0.007, SIDE 0.001, REAR 0.001

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

System/Unit: AHU/RTU

Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624J02939
Model Num	LGT120H4E	LGT120H4ES1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X24
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25

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

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

Test Data		
	Design	**Actual**
SF CFM	3600	3548
SF RPM	-	1034
MOTOR RPM	-	DD/63%
RA CFM	2900	2831
OA CFM	700	717
RL Voltage	-	215/216/215
RL Amperage	-	5.9/5.9/5.8
SF System SetPt	-	63%
RA Damper Position	-	78%
OA Damper Position	-	22%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.10"
Fan Suction SP	-	-0.28"
Fan Discharge SP	-	0.27"
Total ESP	1.00"	0.55"
Fan Total SP	-	0.37"

Completed By: Jearod Ferrette on 06/24/2025

Notes:
RTU1 calls for 2,900 CFM return but the flow hood read just 1,960 CFM.
With OA damper at 0%, duct traverse measured 2,432 CFM closer to design.
No leaks, secure drops, return trunk sealed tight.
System looks solid, but airflow still falls short

Written By: Jearod Ferrette on 07/17/2025

Unit Data - PHOTO LOG

06/24/2025

National TAB

Project:06-23-25 WAWA #6112 FAYETTVILLE, NC

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	TRASH/STAGING	SD1	TRASH/STAGING	200	1	150		198	99.0
SGRD2	BOH	SD4	10"	325	1	280		320	98.5
SGRD3	BOH	SD4	10"	300	1	357		297	99.0
SGRD4	SPEICALTY BEVERAGE	SD4	10"	300	1	318		291	97.0
SGRD5	BOH	SD4	10"	300	1	366		291	97.0
SGRD6	BOH	SD4	10"	325	1	295		319	98.2
SGRD7	BOH	SD4	10"	300	1	420		301	100.3
SGRD8	BOH	SD4	10"	300	1	391		301	100.3
SGRD9	BOH	SD4	10"	325	1	355		317	97.5
SGRD10	BOH	SD4	10"	300	1	419		293	97.7
SGRD11	BOH	SD4	10"	300	1	452		301	100.3
SGRD12	ELECTRICAL ROOM	SD1	10"	325	1	264	3551	319	98.2
Total				3600		4067	3551	3548	98.56%

Diffuser Ret/Exh (GRD)

RTU1/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	WASHROOM	RG1	14X14	1100	1	518	521	600	54.5
EGRD2	BEVERAGE	RG1	14X14	900	1	604	462	733	81.4
EGRD3	BEVERAGE	RG1	14X14	900	1	515	452	627	69.7
Total				2900		1637	1435	1960	67.59%

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

System/Unit: AHU/RTU

Asset: RTU2 AREA:RETAIL

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624J02949
Model Num	LGT120H4E	LGT120H4ES1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X24
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25

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

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

Test Data		
	Design	**Actual**
SF CFM	3250	3207
SF RPM	-	946
MOTOR RPM	-	DD/43%
RA CFM	2870	2830
OA CFM	380	377
RL Voltage	-	216/215/215
RL Amperage	-	5.8/5.9/5.8
SF System SetPt	-	43%
RA Damper Position	-	73%
OA Damper Position	-	27%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.05"
Fan Suction SP	-	-0.23"
Fan Discharge SP	-	0.32"
Total ESP	1.00"	0.55"
Fan Total SP	-	0.37"

Completed By: Jearod Ferrette on 06/24/2025

Unit Data - PHOTO LOG

06/24/2025

Diffuser Supply (GRD)

RTU2/RETAIL

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RETAIL	SD2	12"	300	0.39	276		298	99.3
SGRD2	RETAIL	SD2	12"	275	0.39	273		273	99.3
SGRD3	RETAIL	SD2	16"	275	0.39	106		276	100.4
SGRD4	RETAIL	SD2	16"	300	0.39	326		298	99.3
SGRD5	RETAIL	SD2	18"	300	0.39	335		297	99.0
SGRD6	RETAIL	SD2	18"	275	0.39	329		273	99.3
SGRD7	RETAIL	SD2	18"	300	0.39	324		295	98.3
SGRD8	RETAIL	SD2	14"	275	0.39	258		268	97.5
SGRD9	RETAIL	SD2	14"	275	0.39	244		270	98.2
SGRD10	DELIVERY ROOM	SD2	8"	250	1	134		247	98.8
SGRD11	MENS RR	SD2	8"	150	1	197		148	98.7
SGRD12	VESTIBLE		8"	100	1	110		98	98.0
SGRD13	HALLWAY	SD1	8"	100	1	112		98	98.0
SGRD14	WOMENS RR	SD5	8"	75	1	107		68	90.7
Total				3250		3131	0	3207	98.68%

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

System/Unit: AHU/RTU

Asset: RTU3 AREA:RETAIL/OFFICE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L00834
Model Num	LGT060H4E	LGT060H4EB1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	14.5X28.25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	1	1.5
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	NL
Service Factor	-	NL

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

Test Data		
	Design	**Actual**
SF CFM	2000	2010
SF RPM	-	2112
MOTOR RPM	-	DD/64%
RA CFM	1800	1806
OA CFM	200	204
RL Voltage	-	215/216/215
RL Amperage	-	3.3/3.2/3.2
SF System SetPt	-	64%
RA Damper Position	-	73%
OA Damper Position	-	27%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.14
Fan Suction SP	-	-0.36"
Fan Discharge SP	-	0.45"
Total ESP	1.00"	0.81"
Fan Total SP	-	0.59"

Completed By: Jearod Ferrette on 06/24/2025

Notes:
SD-5 3-5 Damper out of reach, unable to lower.

Written By: Jearod Ferrette on 06/24/2025

Unit Data - PHOTO LOG

06/24/2025

National TAB

Project:06-23-25 WAWA #6112 FAYETTVILLE, NC

AHU/RTU

Diffuser Supply (GRD)

RTU3/RETAIL/OFFICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RETAIL	SD2	12"	375	0.39	432	358	368	98.1
SGRD2	RETAIL	SD2	14"	375	0.39	537	445	366	97.6
SGRD3	RETAIL	SD2	14"	375	0.39	510	423	367	97.9
SGRD4	RETAIL	SD2	16"	375	0.39	152	126	364	97.1
SGRD5	VESTIBLE	SD1	8"	200	1	270	224	250	125.0
SGRD6	OFFICE	SD1	8"	150	1	167	138	148	98.7
SGRD7	OFFICE	SD1	8"	150	1	273	226	147	98.0
Total				2000		2341	1940	2010	100.5%

Completed By: Jearod Ferrette on 06/24/2025

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-08-6	GB-08-6
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	48Y
Horsepower	1/6	1/6
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.6
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	375	388
Fan RPM	1334	1123
Fan Rotation	-	CW
Motor RPM	-	1725
System SetPt	-	3 TURNS OUT
RL Voltage	-	120
RL Amperage	-	NA
Total ESP	.375"	0.26"
Fan Inlet SP	-	-0.26
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 06/24/2025

Notes:
Center Line: 5"
Motor Bore: 3/8
Motor Sheave: VP25
Fan Bore:3/4
Fan Sheave: AK34X3/4
Belt (1) 3L-180

Written By: Jearod Ferrette on 06/23/2025

Unit Data - PHOTO LOG

06/24/2025

National TAB

Project:06-23-25 WAWA #6112 FAYETTVILLE, NC

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	RESTROOMS	EG1	8X8	225	1	195	196	195	86.7
EGRD2	RESTROOMS	EG1	8X8	150	1	193	194	193	128.7
Total				375		388	390	388	103.47%

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

System/Unit: FAN - Exhaust

Asset: EF2 AREA:BACK OF HOUSE

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

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	48Y
Horsepower	1/6	1/6
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.6
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	400	410
Fan RPM	1334	1902
Fan Rotation	-	cw
Motor RPM	-	1769
System SetPt	-	3.5 turns out
RL Voltage	-	118
RL Amperage	-	NA
Total ESP	.375"	0.35"
Fan Inlet SP	-	-0.35"
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 06/24/2025

Notes:
Center Line: 5"
Motor Bore: 3/8
Motor Sheave: VP25
Fan Bore:3/4
Fan Sheave: AK34X3/4
Belt (1) 3L-180

Written By: Jearod Ferrette on 06/23/2025

Unit Data - PHOTO LOG

06/24/2025

National TAB

Project:06-23-25 WAWA #6112 FAYETTVILLE, NC

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/BACK OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	BOH	RG2	8X8	200	1	205	199	183	91.5
EGRD2	BOH	RG2	8X8	200	1	270	250	227	113.5
Total				400		475	449	410	102.5%

Completed By: Jearod Ferrette on 07/17/2025

National TAB

Project: 06-23-25 WAWA #6112 FAYETTVILLE, NC

System/Unit: FAN - Exhaust

Asset: EF3 AREA:TRASHROOM

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200
Serial Num	-	193844723-0066
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	NL
Horsepower	-	1/30
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.7
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	200	0
Fan RPM	-	0
Fan Rotation	-	0
Motor RPM	-	0
System SetPt	-	0
RL Voltage	-	0
RL Amperage	-	0
Total ESP	.50"	0
Fan Inlet SP	-	0
Fan Discharge SP	-	0

Completed By: Jearod Ferrette on 07/17/2025

Notes:
NOT WIRED, NO SPEED CONTROLLER

Written By: Jearod Ferrette on 06/24/2025

Unit Data - PHOTO LOG

06/24/2025