Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 09/05/2025

Completed By: National TAB

PROJECT

08-25-25 WAWA #6613 CHANTILLY, VA

44104 POINTE PLAZA

CHANTILLY, VA 20152

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 08-25-25 WAWA #6613 CHANTILLY, 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.

Issue List

- ALL RTU’s MA PLENUM PANEL INSULATION
- EF1 & 2 LOW
- EF1-2 DIFFUSER
- EF2-4 DIFFUSER
- RTU 1 & 3 PRESSURE
- RTU DIFFUSERS
- RTU2 SENSOR

08-25-25 WAWA #6613 CHANTILLY, VA

Project Issue Information

Issue Name : ALL RTU's MA PLENUM PANEL INSULATION

Description : Insulation not sealed to MA Plenum panel Can cause insulation to be sucked into fan! Noticed when taking pressures

Created By : National TAB

Assigned To : National TAB - Cody Mauro

Status : Open

Priority : High

Asset Tag :

Originated Date : 08/27/2025 - Cody Mauro - National TAB

Project Issue File Details

08/27/2025

08-25-25 WAWA #6613 CHANTILLY, VA

Project Issue Information

Issue Name : EF1 & 2 LOW

Description : Both speed controller dials are max speed, not enough total exhaust from either EF

Created By : National TAB

Assigned To : National TAB - Cody Mauro

Status : Open

Priority : High

Asset Tag :

Originated Date : 08/28/2025 - Cody Mauro - National TAB

Project Issue File Details

08/28/2025

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08-25-25 WAWA #6613 CHANTILLY, VA

Project Issue Information

Issue Name : EF1-2 DIFFUSER

Description : Ef1-2 diffuser is sitting above the ceiling, not installed. Cannot reach to read cfm with Pitot tube Could very well be causing leakage of air

Created By : National TAB

Assigned To : National TAB - Cody Mauro

Status : Open

Priority : High

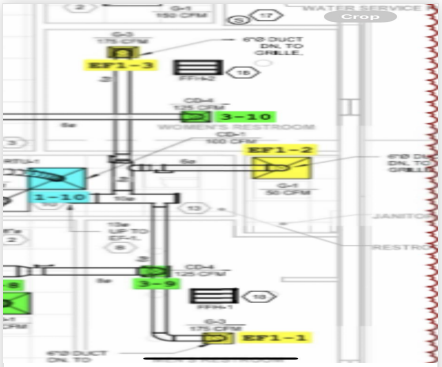
Asset Tag :

Originated Date : 08/28/2025 - Cody Mauro - National TAB

Project Issue File Details

08/28/2025

08/28/2025



08/28/2025

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Project Issue Information

Issue Name : EF2-4 DIFFUSER
Description : Cannot get seal on diffuser due to location above TV's

Created By : National TAB
Assigned To : National TAB - Cody Mauro
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 08/28/2025 - Cody Mauro - National TAB

Project Issue File Details

08/28/2025

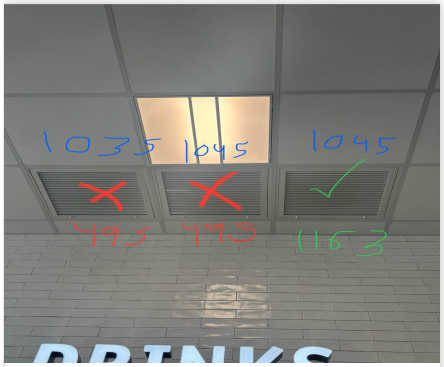
08-25-25 WAWA #6613 CHANTILLY, VA

Project Issue Information

Issue Name : RTU 1 & 3 PRESSURE
Description : RTU 1 & 3 have high static pressures due to closed return grilles.

Created By : National TAB
Assigned To : National TAB - Cody Mauro
Status : Open
Priority : Urgent
Asset Tag :
Originated Date : 08/28/2025 - Cody Mauro - National TAB

Project Issue File Details



08/28/2025

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08-25-25 WAWA #6613 CHANTILLY, VA

Project Issue Information

Issue Name : RTU DIFFUSERS

Description : Unable to reach ceiling diffusers, need some type of lift or taller ladder
Cannot hit diffuser dampers

Created By : National TAB

Assigned To : National TAB - Cody Mauro

Status : Open

Priority : High

Asset Tag :

Originated Date : 08/25/2025 - Cody Mauro - National TAB

Project Issue File Details

08/27/2025

08-25-25 WAWA #6613 CHANTILLY, VA

Project Issue Information

Issue Name : RTU2 SENSOR

Description : There is no heating testing mode on the unit. The humidity sensor is also failing to display.

Created By : National TAB

Assigned To : National TAB - Cody Mauro

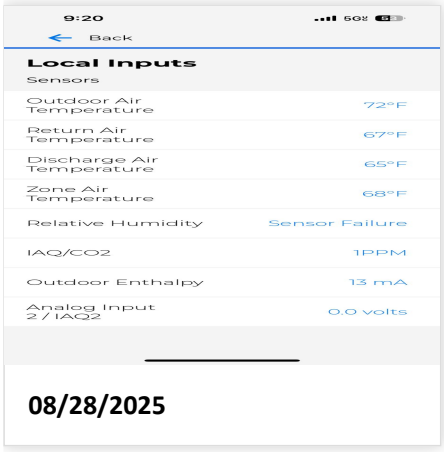
Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 08/28/2025 - Cody Mauro - National TAB

Project Issue File Details



CheckList List

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

08-25-25 WAWA #6613 CHANTILLY, VA

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/13/2025 - Natasha Louw - National TAB		
Completed Date :	08/28/2025 - Cody Mauro - National TAB		

CheckList Item Details

RTU's/AHU's

All diffusers and grilles are installed and match design?	Fail
Comment: RTU1, RTU3 return diffusers majorly closed. Causing high static pressure in unit	
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:

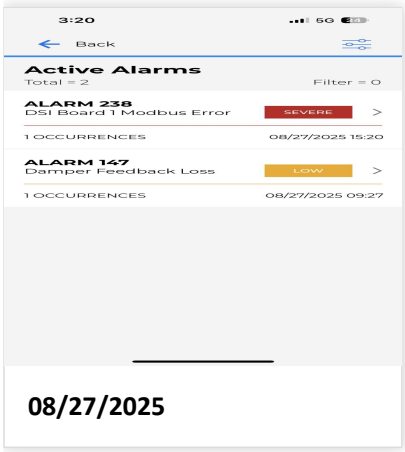
Final outside air damper position is marked with permanent marker?	N/A

Comment:

Cannot open panel without insulation getting sucked off. Needs to be resealed

No alarms present?	Fail

Comment:



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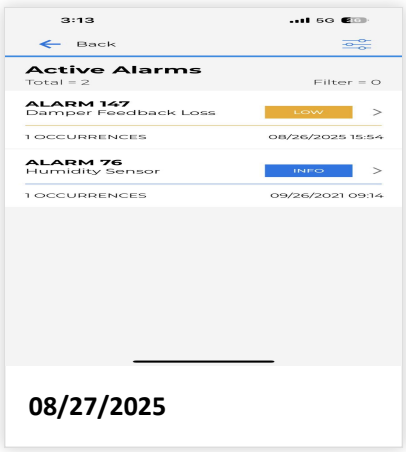

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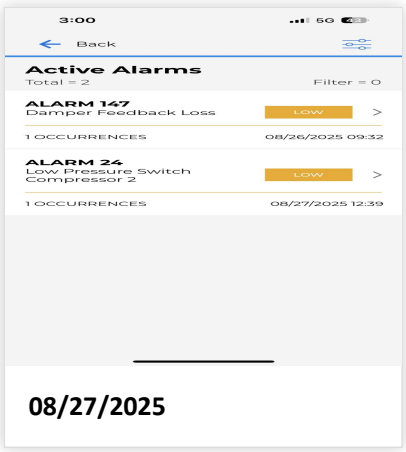

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Any noticeable duct leakage?	N/A

Comment:

Had to crank the speed up a lot to get required CFM, could possibly be minor leakage or improper seal somewhere along ductwork

Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?	Fail

Comment:

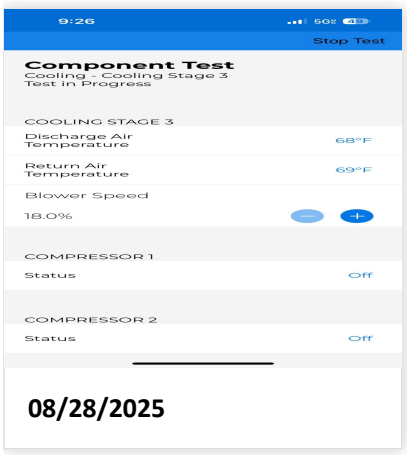
Supply & OA balanced within +/-5%, diffusers are unable to be tampered due to high ceilings. Cannot reach.

IN TEST MODE, TEST THE FOLLOWING:

Cooling mode is operational? Record EAT/LAT for each unit:	Pass

Comment:

RTU1: EAT - 57F, LAT - 67F RTU2: EAT - 55F, LAT - 67F RTU3: EAT - 55F, LAT - 72F



Heating mode is operational? Record EAT/LAT for each unit:	Pass

Comment:

RTU1: EAT - 73F, LAT - 73F RTU2: N/A (Kitchen Unit) RTU3: EAT - 73F, LAT - 72F

Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Pass

Comment:

RTU1: EAT - 60F, LAT - 68F RTU2: EAT - 65F, LAT - 67F RTU3: EAT - 63F, LAT - 69F

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CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/13/2025 - Natasha Louw - National TAB		
Completed Date :	08/27/2025 - Cody Mauro - National TAB		

CheckList Item Details

UNIT ID CONFIGURATIONS	
BACNET CONFIGURATION: GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "N".	N/A
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?	Fail

Comment:

RTU1: 17% RTU2: 11% RTU3: 13%

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

Comment:

RTU1: 96% blower speed RTU2: 97% blower speed RTU3: 79% blower speed

HEAT CFM VALUE: PER THE HVAC SCHEDULE	Pass

Comment:

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

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CheckList Information

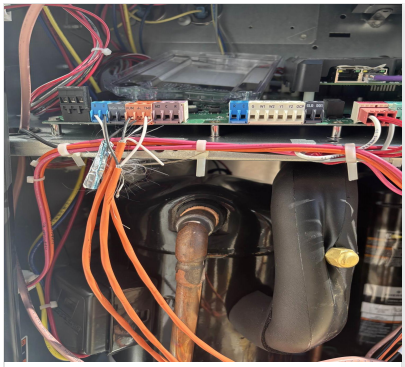
Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/13/2025 - Natasha Louw - National TAB		
Completed Date :	08/28/2025 - Cody Mauro - National TAB		

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)	Fail
Comment:	

RTU1: 62% RTU2: Sensor Failure RTU3: 55%



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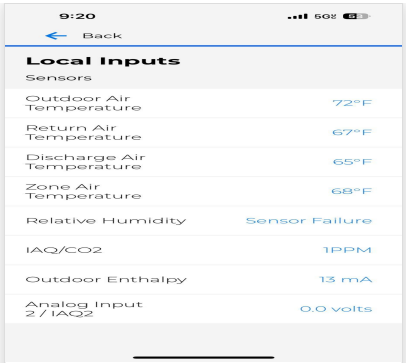

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CheckList Information

Name :	04: EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/13/2025 - Natasha Louw - National TAB		
Completed Date :	08/28/2025 - Cody Mauro - 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?	Fail
Comment:	
No backdraft damper installed for EF2	

08/28/2025

Unit free of noticeable noise and vibration?	Pass
Comment:	

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

Speed controllers for both EF's are maxed, total not within +/-5%. Grilles unable to be balanced due to lack of air.

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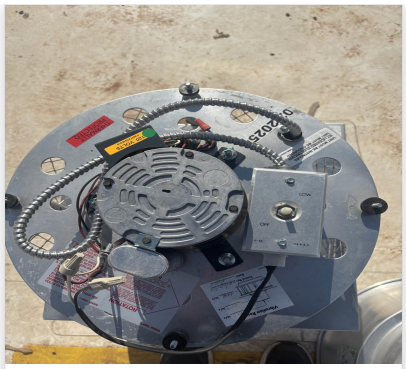

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CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/13/2025 - Natasha Louw - National TAB		
Completed Date :	08/28/2025 - Cody Mauro - 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:	

National TAB

Project: 08-25-25 WAWA #6613 CHANTILLY, VA

System/Unit: AHU/RTU

Asset: RTU1 AREA:RETAIL

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624G03839
Model Num	LGT120H4E	LGT120H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	20x25x2
Num Final Filter 1	-	2
Final Filter Size 1	-	16x24

Motor Data		
	Design	**Actual**
Motor MFG	-	Ebmpapst
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7

Test Data		
	Design	**Actual**
SF CFM	3925	3942
RA CFM	3125	3067
OA CFM	800	875
RL Voltage	-	210/209/209
RL Amperage	-	8.6/8.5/8.5
SF System SetPt	-	96%
RA Damper Position	-	83%
RA Damper Type	-	ECON
OA Damper Position	-	17%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	1.33
Fan Suction SP	-	1.70
Fan Discharge SP	-	0.62
Total ESP	1.00"	0.71”
Fan Total SP	-	1.08

Notes:
Static return pressure high due to 2 return diffusers shut
Totals were taken, balancing unable to be taken place

Written By: Cody Mauro on 08/28/2025

National TAB

Project:08-25-25 WAWA #6613 CHANTILLY, VA

AHU/RTU

Diffuser Supply (GRD)

RTU1/RETAIL

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RETAIL	LD-1	12"	400		277	244	244	61.0
SGRD2	RETAIL	LD-1	12"	400		349	306	306	76.5
SGRD3	RETAIL	LD-1	12"	425		573	547	547	128.7
SGRD4	RETAIL	LD-1	12"	400		573	501	501	125.3
SGRD5	RETAIL	LD-1	12"	400		568	518	518	129.5
SGRD6	RETAIL	LD-1	10"	250		146	133	133	53.2
SGRD7	RETAIL	LD-1	12"	400		374	339	339	84.8
SGRD8	RETAIL	LD-1	10"	250		159	146	146	58.4
SGRD9	RETAIL	LD-1	10"	250		158	131	131	52.4
SGRD10	HALLWAY	CD-1	6"	100		65	60	60	60.0
SGRD11	ASSOCIATES AREA	CD-1	8"	150		125	108	108	72.0
SGRD12	REAR VESTIBULE	CD-3	8"	100		134	124	124	124.0
SGRD13	BACKROOM	CD-1	12"	375		375	333	333	88.8
Total				3900		3876	3490	3490	89.49%

National TAB

Project: 08-25-25 WAWA #6613 CHANTILLY, VA

System/Unit: AHU/RTU

Asset: RTU2 AREA:FOOD SERVICE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624H03624
Model Num	LCT150H4E	LCT150H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	20x25x2
Num Final Filter 1	-	2
Final Filter Size 1	-	16x24

Motor Data		
	Design	**Actual**
Motor MFG	-	Ebmpapst
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7

Test Data		
	Design	**Actual**
SF CFM	4850	4804
RA CFM	3900	3849
OA CFM	950	955
RL Voltage	-	210/210/209
RL Amperage	-	8.2/8.2/8.1
SF System SetPt	-	97%
RA Damper Position	-	89%
RA Damper Type	-	ECON
OA Damper Position	-	11%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	0.55
Fan Suction SP	-	1.10
Fan Discharge SP	-	0.60
Total ESP	1.00"	0.05”
Fan Total SP	-	0.50

Completed By: Cody Mauro on 08/27/2025

Notes:
Blower speed at 97%, cannot go higher without going over 8.7A FLA limit. Reason for slightly lower supply cfm
Totals were taken, balancing unable to be taken place

Written By: Cody Mauro on 08/28/2025

National TAB

Project:08-25-25 WAWA #6613 CHANTILLY, VA

AHU/RTU

Diffuser Supply (GRD)

RTU2/FOOD SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	FOOD SERVICE	LD-1	10"	250		217	220	220	88.0
SGRD2	FOOD SERVICE	LD-1	10"	250		337	300	300	120.0
SGRD3	FOOD SERVICE	LD-1	12"	500		402	370	370	74.0
SGRD4	FOOD SERVICE	LD-1	12"	500		359	316	316	63.2
SGRD5	FOOD SERVICE	LD-1	12"	500		470	421	421	84.2
SGRD6	FOOD SERVICE	LD-1	12"	500		438	397	397	79.4
SGRD7	FOOD SERVICE	LD-1	12"	500		314	292	292	58.4
SGRD8	BACK ROOM	LD-1	12"	400		440	399	399	99.8
SGRD9	BACK ROOM	LD-1	12"	500		526	486	486	97.2
SGRD10	WASHROOM	LD-1	12"	400		535	490	490	122.5
SGRD11	ELECTRICAL ROOM	CD-1	12"	550		520	519	519	94.4
Total				4850		4558	4210	4210	86.8%

Diffuser Ret/Exh (GRD)

RTU2/FOOD SERVICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOOD SERVICE	G-1	16"	975					-
EGRD2	FOOD SERVICE	G-1	16"	975					-
EGRD3	FOOD SERVICE	G-1	16"	975					-
EGRD4	WASHROOM	G-1	16"	975					-
Total				3900		0	0	0	0%

Completed By: Cody Mauro on 08/27/2025

National TAB

Project: 08-25-25 WAWA #6613 CHANTILLY, VA

System/Unit: AHU/RTU

Asset: RTU3 AREA:FOH

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624G03635
Model Num	LGT092H4E	LGT092H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	20x25x2
Num Final Filter 1	-	2
Final Filter Size 1	-	16x24

Motor Data		
	Design	**Actual**
Motor MFG	-	Ebmpapst
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7

Test Data		
	Design	**Actual**
SF CFM	2775	2823
RA CFM	2175	2156
OA CFM	600	667
RL Voltage	-	209/209/209
RL Amperage	-	5.1/5.0/5.0
SF System SetPt	-	79%
RA Damper Position	-	83%
RA Damper Type	-	ECON
OA Damper Position	-	13%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	1.44
Fan Suction SP	-	1.64
Fan Discharge SP	-	0.43
Total ESP	1.00"	1.01”
Fan Total SP	-	1.21

Completed By: Cody Mauro on 08/27/2025

Notes:
Static return pressure high due to 1 return diffuser shut
Totals were taken, balancing unable to be taken place

Written By: Cody Mauro on 08/28/2025

National TAB

Project:08-25-25 WAWA #6613 CHANTILLY, 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	RETAIL AREA	LD-1	10"	350		472	472	472	134.9
SGRD2	RETAIL AREA	LD-1	10"	350		335	335	335	95.7
SGRD3	RETAIL AREA	LD-1	10"	350		404	404	404	115.4
SGRD4	FRONT VESTIBULE	CD-2	10"	300		372	372	372	124.0
SGRD5	RETAIL AREA	LD-1	10"	350		337	337	337	96.3
SGRD6	RETAIL AREA	LD-1	10"	350		343	343	343	98.0
SGRD7	RETAIL AREA	LD-1	10"	275		279	279	279	101.5
SGRD8	OFFICE	CD-1	8"	200		310	310	310	155.0
SGRD9	MENS RR	CD-4	8"	125		62	62	62	49.6
SGRD10	WOMENS RR	CD-4	6"	125		123	123	123	98.4
Total				2775		3037	3037	3037	109.44%

Completed By: Cody Mauro on 08/27/2025

National TAB

Project: 08-25-25 WAWA #6613 CHANTILLY, VA

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	PENNBARRY	PENNBARRY
Model Num	DX10R	DX10R
Serial Num	-	B25AJ42860
Type	DOWNBLAST	DOWN
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	**Actual**
CFM	400	161
Fan Rotation	-	CORRECT
Total ESP	0.250"	0.16’
Fan Inlet SP	-	0.16
Fan Discharge SP	-	ATM

Motor Data		
	Design	**Actual**
Motor MFG	-	Fasco
Horsepower	0.083	0.16
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.8/.90

Notes:
EF1-2 Janitorial closet diffuser not installed, lying above ceiling. Not suspecting this to be major cause for cfm loss.
EF1 speed controller max speed.

Written By: Cody Mauro on 08/28/2025

National TAB

Project:08-25-25 WAWA #6613 CHANTILLY, VA

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	MENS RR	G-3	6"	175		0	83	103	58.9
EGRD2	JANITOR CLOSET	G-1	6"	50		N/A	N/A		-
EGRD3	WOMENS RR	G-3	6"	175		0	58	66	37.7
Total				400		0	141	169	42.25%

National TAB

Project: 08-25-25 WAWA #6613 CHANTILLY, VA

System/Unit: FAN - Exhaust

Asset: EF2 AREA:BOH

Unit Data		
	Design	**Actual**
MFG	PENNBARRY	PENNBARRY
Model Num	DX16S	DX16S
Serial Num	-	B25AJ78024
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	**Actual**
CFM	1400	869
Fan Rotation	-	CORRECT
Total ESP	0.250"	0.56'
Fan Inlet SP	-	0.56
Fan Discharge SP	-	ATM

Motor Data		
	Design	**Actual**
Motor MFG	-	Genteq
Horsepower	0.33	0.33
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	4.5

Notes:
Speed controller max speed
Cannot hit dampers of exhaust grilles
EF2-4 cannot get proper flow hood seal due to grille placement above TV Frame
No backdraft damper installed

Written By: Cody Mauro on 08/28/2025

National TAB

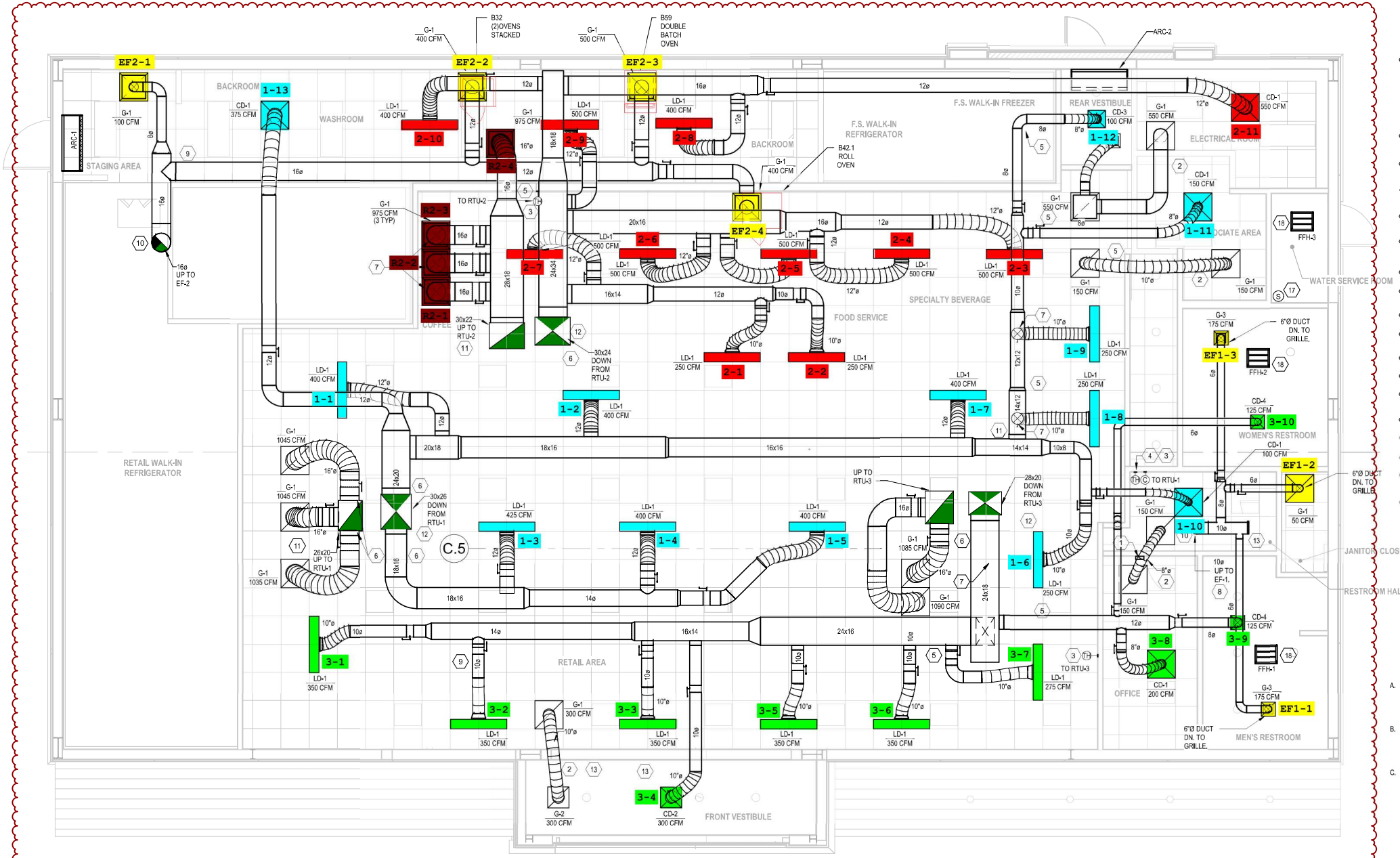
Project:08-25-25 WAWA #6613 CHANTILLY, VA

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/BOH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	STAGING AREA	G-1	8"	100		169	205	205	205.0
EGRD2	WASHROOM	G-1	12"	400		158	203	203	50.8
EGRD3	BACKROOM	G-1	12"	500		209	259	259	51.8
EGRD4	FOOD SERVICE	G-1	12"	400		190	202	202	50.5
Total				1400		726	869	869	62.07%



1 M1.0 HVAC FLOOR PLAN
1/4" = 1'-0"