Report By:

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

Report: TAB

Function: Test, Adjust, & Balance

Date: 03/31/2025

Completed By: National TAB

PROJECT

03-31-25 WAWA #7409 CHESTERFIELD, IN

6364 UNIVERSITY DR NW

HUNSTVILLE, AL 35806

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 03-31-25 WAWA #7409 CHESTERFIELD, IN

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

- BACNET Not Wired
- EF-3 Above Design
- RTU-1 Dehumidification Mode
- RTU-1 In Unoccupied State
- RTU-2 & 3 Diffusers
- RTU-2 Diffusers Inaccessible
- RTU-2 Sensors

03-31-25 WAWA #7409 CHESTERFIELD, IN

Project Issue Information

Issue Name :	BACNET Not Wired		
Description :	BACNET for units is not yet installed, to be installed 04/15 per GC.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	04/01/2025 - Jordan Best - National TAB		

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Project Issue Information

Issue Name :	EF-3 Above Design		
Description :	EF-3 is above design flow and is not equipped with a speed controller.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	03/31/2025 - Jordan Best - National TAB		

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Project Issue Information

Issue Name :	RTU-1 Dehumidification Mode		
Description :	RTU-1 dehum mode did not active when called for, unit stayed in cooling.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	04/01/2025 - Jordan Best - National TAB		

03-31-25 WAWA #7409 CHESTERFIELD, IN

Project Issue Information

Issue Name :	RTU-1 In Unoccupied State		
Description :	RTU-1 showing unoccupied status via Lenox core app. Installed a jumper connecting, G, R, and OCP to get unit to run. Unsure if this issue will be solved when BACNET is fully installed.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	04/01/2025 - Jordan Best - National TAB		

03-31-25 WAWA #7409 CHESTERFIELD, IN

Project Issue Information

Issue Name :	RTU-2 & 3 Diffusers		
Description :	In the future I would recommend engineers try to take into account positioning of supply grilles/registers/diffusers and orient them in a way that access to them is not restricted by hanging light fixtures. On this site almost every diffuser for RTU-2 is obstructed by hanging light fixtures.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	InfoOnly	**Asset Tag :**	
Originated Date :	04/01/2025 - Jordan Best - National TAB		

03-31-25 WAWA #7409 CHESTERFIELD, IN

Project Issue Information

Issue Name :	RTU-2 Diffusers Inaccessible		
Description :	Diffusers 1,2,3 4, and 8, for RTU-2 are inaccessible due to multiple pieces of hanging lighting.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	04/01/2025 - Jordan Best - National TAB		

03-31-25 WAWA #7409 CHESTERFIELD, IN

Project Issue Information

Issue Name :	RTU-2 Sensors		
Description :	RTU-2 temp and humidity sensors were installed but unplugged at unit. MC was aware of this but could not inform me on why or who did it. I plugged back in for testing and left them plugged in.		
Created By :	National TAB	**Assigned To :**	National TAB - Jordan Best
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	04/01/2025 - Jordan Best - National TAB		

NATIONAL TAB

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	BOH	4500	4506	3800	3844	700	662	15.6%	14.7%						
RTU-2	SALES	3400	3534	3020	3167	380	367	11.2%	10.4%						
RTU-3	FOH	2400	2289	2200	2092	200	197	8.3%	8.6%						
EF-1	RESTROOM													375	356
EF-2	BOH													400	433
EF-3	TRASH ROOM													200	238
TOTALS		10300	10329	9020	9103	1280	1226			0	0	0	0	975	1027

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1226
TOTAL EXHAUST	975	1027
NET AIRFLOW	305	199

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.0187
SIDE	
REAR	0.0128
AVERAGE	**0.0158**

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

03-31-25 WAWA #7409 CHESTERFIELD, IN

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	03/21/2025 - Nicole Seever - 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%?	Pass
Comment:	
IN TEST MODE, TEST THE FOLLOWING:	
Cooling mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU-1 EAT- 62.4 LAT- 47.3 RTU-2 EAT- 71 LAT- 49 RTU-3 64 LAT- 48	
Heating mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU-1 NA RTU-2 EAT- 70 LAT- 114 RTU-3 EAT-64 LAT- 134.4	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Pass
Comment: RTU-1 EAT- 61.3 LAT- 45.5 RTU-2 EAT- 68 LAT- 61 RTU-3 EAT- 67 LAT-59	

03-31-25 WAWA #7409 CHESTERFIELD, IN

CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	03/21/2025 - Nicole Seever - 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: NA, BACNET not set up.	
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:

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

Comment:

RTU-1 78% RTU-2 74% RTU-3 62%

HEAT CFM VALUE: PER THE HVAC SCHEDULE	Pass

Comment:

68

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE	Pass
Comment: 72	
LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE	Pass
Comment: 72	
VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE	Pass
Comment: 72	

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CheckList Information

Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	03/21/2025 - Nicole Seever - 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: RTU-2 sensors installed originally and then disconnected @ unit, per MC, unsure why	
For second shielded cable, one wire is landed to Vout and the shield wire is not connected.	Pass
Comment: RTU-2 sensors installed originally and then disconnected @ unit, per MC, unsure why	
Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)	Pass
Comment: 50%	

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CheckList Information

Name : 04: EF'S **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 03/21/2025 - Nicole Seever - 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)?	N/A
Comment:	
There is no major leakage around base of fan?	Pass
Comment:	
Is the motor operating below the motor FLA rating?	N/A
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%?	Pass

Comment:

EF-3 above design flow and not equipped with a speed controller.

03-31-25 WAWA #7409 CHESTERFIELD, IN

CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	03/21/2025 - Nicole Seever - 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: 03-31-25 WAWA #7409 CHESTERFIELD, IN

System/Unit: AHU/RTU

Asset: RTU1 AREA:BOH

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L02332
Model Num	LCT150H4E	LCT150H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	26"X16"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X25"X2"

Motor Data		
	Design	**Actual**
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7

Test Data		
	Design	**Actual**
SF CFM	4500	4506
RA CFM	3800	3844
OA CFM	700	662
RL Voltage	-	214.6/213.8/213.3
RL Amperage	-	4.34/4.47/4.38
SF System SetPt	-	78%
RA Damper Position	-	73%
RA Damper Type	-	MOTORIZED
OA Damper Position	-	27%
OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.33"
Fan Suction SP	-	-0.90"
Fan Discharge SP	-	0.50"
Total ESP	0.70"	0.83"
Fan Total SP	-	1.4"

Completed By: Jordan Best on 04/01/2025

National TAB

Project:03-31-25 WAWA #7409 CHESTERFIELD, IN

AHU/RTU

Diffuser Supply (GRD)

RTU1/BOH

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	434	366	382	89.9
SGRD2	FOOD SERVICE	SD-6	10"	425	1	522	417	441	103.8
SGRD3	FOOD SERVICE	SD-6	10"	425	1	567	448	431	101.4
SGRD4	FOOD SERVICE	SD-6	10"	425	1	548	447	438	103.1
SGRD5	FOOD SERVICE	SD-6	10"	425	1	709	562	422	99.3
SGRD6	COFFEE	SD-6	12"	500	1	762	623	522	104.4
SGRD7	TRASH	SD-1	10"	300	1	434	349	320	106.7
SGRD8	BOH	SD-6	10"	400	1	403	316	367	91.8
SGRD9	BOH	SD-6	10"	400	1	481	381	395	98.8
SGRD10	BOH	SD-6	10"	400	1	526	419	416	104.0
SGRD11	ELECTRICAL ROOM	SD-1	10"	375	1	419	346	372	99.2
Total				4500		5805	4674	4506	100.13%

Diffuser Ret/Exh (GRD)

RTU1/BOH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOH	RG-1	14"	870	1	948	792	803	92.3
EGRD2	FOH	RG-1	14"	865	1	503	802	811	93.8
EGRD3	FOH	RG-1	14"	865	1	788	811	788	91.1
EGRD4	WASHROOM	RG-1	16X14"	1200	1	903	1109	1097	91.4
Total				3800		3142	3514	3499	92.08%

Completed By: Jordan Best on 04/01/2025

National TAB

Project: 03-31-25 WAWA #7409 CHESTERFIELD, IN

System/Unit: AHU/RTU

Asset: RTU2 AREA:SALES

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L01950
Model Num	LCT102H4E	LCT102H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	26"X16"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X25"X2"

Motor Data		
	Design	**Actual**
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7

Test Data		
	Design	**Actual**
SF CFM	3400	3534
RA CFM	3020	3167
OA CFM	380	367
RL Voltage	-	213.3/212.4/214.3
RL Amperage	-	3.61/3.75/3.72
SF System SetPt	-	74%
RA Damper Position	-	82%
RA Damper Type	-	MOTORIZED
OA Damper Position	-	18%
OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.64"
Fan Discharge SP	-	0.62"
Total ESP	1"	0.93"
Fan Total SP	-	1.26"

Completed By: Jordan Best on 04/01/2025

Notes:
Dirty filters, unit balanced with filters removed.

Written By: Jordan Best on 03/31/2025

National TAB

Project:03-31-25 WAWA #7409 CHESTERFIELD, IN

AHU/RTU

Diffuser Supply (GRD)

RTU2/SALES

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RETAIL	SD-2	12"	275	0.92	0	0	0	0.0
SGRD2	RETAIL	SD-2	12"	275	0.92	0	0	0	0.0
SGRD3	RETAIL	SD-2	12"	275	0.92	0	0	0	0.0
SGRD4	RETAIL	SD-2	12"	275	0.92	0	0	0	0.0
SGRD5	RETAIL	SD-2	12"	275	0.92	376	292	292	106.2
SGRD6	RETAIL	SD-2	12"	300	0.92	343	287	287	95.7
SGRD7	RETAIL	SD-2	16"	275	0.92	339	283	283	102.9
SGRD8	RETAIL	SD-2	16"	275	0.92	0	0	0	0.0
SGRD9	RETAIL	SD-2	16"	275	0.92	484	271	271	98.5
SGRD10	HALLWAY	SD-1	16"	200	1	204	187	187	93.5
SGRD11	DELIVERY ROOM	SD-1	8"	250	1	375	233	233	93.2
SGRD12	MENS RESTROOM	SD-5	8"	150	1	267	162	162	108.0
SGRD13	VESTIBULE	SD-5	8"	200	1	268	193	193	96.5
SGRD14	WOMENS RESTROOM	SD-5	8"	100	1	293	98	98	98.0
Total				3400		2949	2006	2006	59%

Completed By: Jordan Best on 04/01/2025

National TAB

Project: 03-31-25 WAWA #7409 CHESTERFIELD, IN

System/Unit: AHU/RTU

Asset: RTU3 AREA:FOH

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L05215
Model Num	LGT072H4E	LGT072H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30"X16"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"X20"X2"

Motor Data		
	Design	**Actual**
Horsepower	1	1.5
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	4.4

Test Data		
	Design	**Actual**
SF CFM	2400	2289
RA CFM	2200	2092
OA CFM	200	197
RL Voltage	-	213.1/211.8/214.5
RL Amperage	-	1.67/1.56/1.64
SF System SetPt	-	62%
RA Damper Position	-	70%
RA Damper Type	-	MOTORIZED
OA Damper Position	-	30%
OA Damper Type	-	MOTORIZED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.17"
Fan Suction SP	-	-0.29"
Fan Discharge SP	-	0.32"
Total ESP	-	0.49"
Fan Total SP	-	0.61"

Completed By: Jordan Best on 04/01/2025

Notes:
Dirty filters, unit balanced with filters removed.

Written By: Jordan Best on 03/31/2025

National TAB

Project:03-31-25 WAWA #7409 CHESTERFIELD, IN

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	ASSOCIATES AREA	SD-1	8"	200	1	444	191	191	95.5
SGRD2	OFFICE	SD-1	8"	150	1	216	136	136	90.7
SGRD3	VESTIBULE	SD-5	8"	250	0.92	235	229	229	91.6
SGRD4	RETAIL	SD-2	18"	450	0.92	856	432	432	96.0
SGRD5	RETAIL	SD-2	18"	450	0.92	935	428	428	95.1
SGRD6	RETAIL	SD-2	14"	450	0.92	970	442	442	98.2
SGRD7	RETAIL	SD-2	14"	450	0.92	928	431	431	95.8
Total				2400		4584	2289	2289	95.38%

Completed By: Jordan Best on 04/01/2025

National TAB

Project: 03-31-25 WAWA #7409 CHESTERFIELD, IN

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	-	26298976
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Horsepower	0.167	0.167
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.8
Service Factor	-	1.35

Test Data		
	Design	**Actual**
CFM	375	356
Fan Rotation	-	CCW
System SetPt	-	5 TURNS OUT
Total ESP	0.38"	0.15”
Fan Inlet SP	-	-0.15”
Fan Discharge SP	-	ATM

Completed By: Jordan Best on 04/01/2025

Notes:
Fan Sheave- 3.5"
Fan Bore- 0.625"
Motor Sheave/Bore- VP25
CL Distance- 5"
Belt- 3L180
1 Belt

Written By: Jordan Best on 03/31/2025

Unit Data - PHOTO LOG

03/31/2025

National TAB

Project:03-31-25 WAWA #7409 CHESTERFIELD, IN

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 RESTROOM	EG-1	8X8"	150	1	174	143	143	95.3
EGRD2	MENS RESTROOM	EG-1	8X8"	225	1	190	213	213	94.7
Total				375		364	356	356	94.93%

Completed By: Jordan Best on 03/31/2025

National TAB

Project: 03-31-25 WAWA #7409 CHESTERFIELD, IN

System/Unit: FAN - Exhaust

Asset: EF2 AREA:BOH

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6
Serial Num	-	26298978
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Horsepower	0.167	0.167
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.8
Service Factor	-	1.35

Test Data		
	Design	**Actual**
CFM	400	433
Fan Rotation	-	CCW
System SetPt	-	5 TURNS OUT
Total ESP	0.38"	0.14”
Fan Inlet SP	-	-0.14”
Fan Discharge SP	-	ATM

Completed By: Jordan Best on 04/01/2025

Notes:
Fan Sheave- 3.5"
Fan Bore- 0.625"
Motor Sheave/Bore- VP25
CL Distance- 5"
Belt- 3L180
1 Belt

Written By: Jordan Best on 03/31/2025

National TAB

Project:03-31-25 WAWA #7409 CHESTERFIELD, IN

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	FOOD SERVICE	RG-2	8X8"	200	1	238	214	214	107.0
EGRD2	BOH	RG-2	8X8"	200	1	236	219	219	109.5
Total				400		474	433	433	108.25%

Completed By: Jordan Best on 03/31/2025

National TAB

Project: 03-31-25 WAWA #7409 CHESTERFIELD, IN

System/Unit: FAN - Exhaust

Asset: EF3 AREA:TRASH ROOM

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200
Serial Num	-	191307299-0060
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

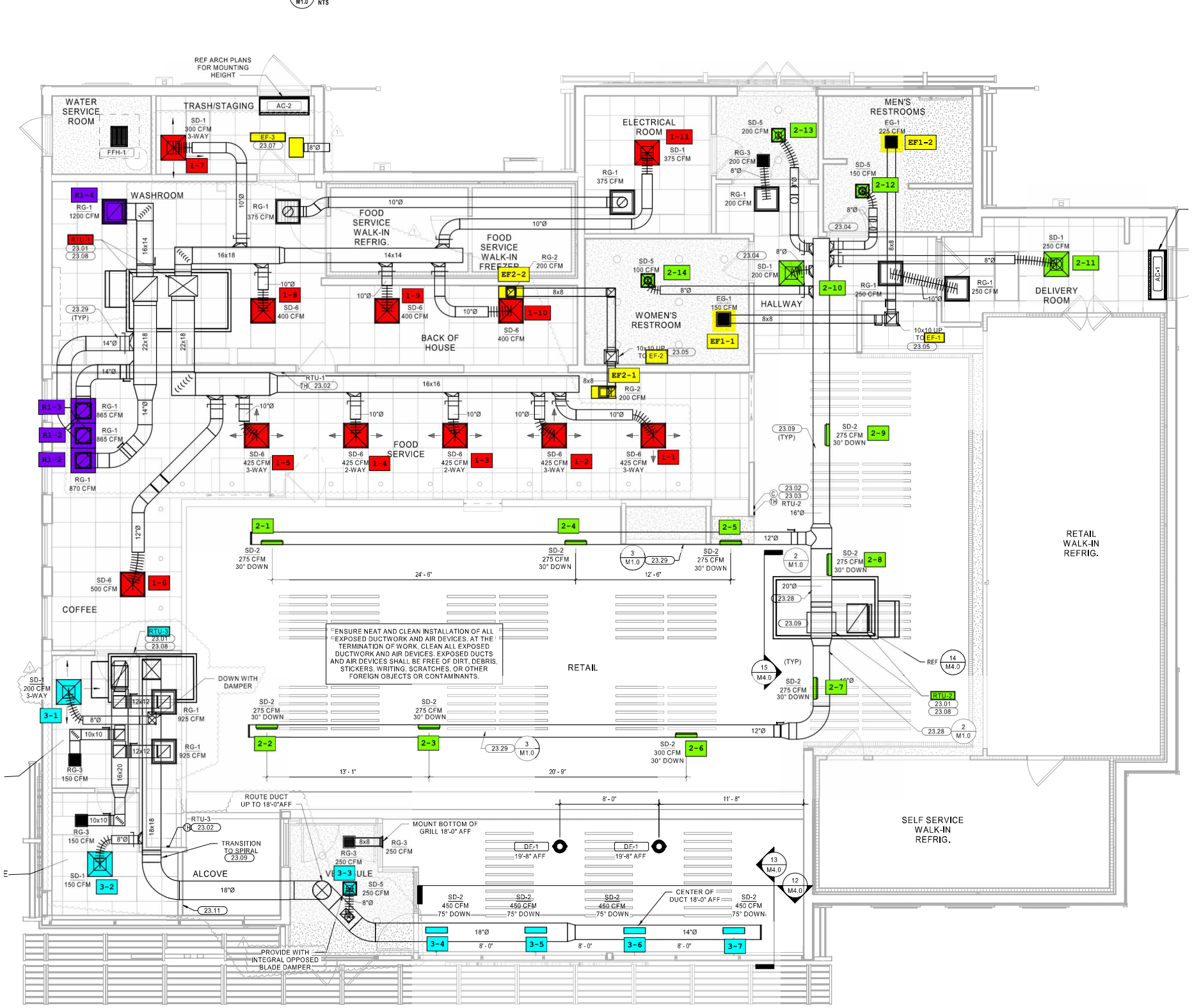
Test Data		
	Design	**Actual**
CFM	200	238
Fan Rotation	-	CCW
System SetPt	-	Fixed Speed
Fan Discharge SP	-	ATM

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Horsepower	0.167	0.033
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.7

Completed By: Jordan Best on 03/31/2025

Notes:
Fan above design, not equipped with speed controller.

Written By: Jordan Best on 03/31/2025


WATER SERVICE ROOM
TRASH/STAGING
WASHROOM
FOOD SERVICE WALK-IN REFRIG.
FOOD SERVICE WALK-IN FREEZER
ELECTRICAL ROOM
MEN'S RESTROOMS
WOMEN'S RESTROOM
HALLWAY
DELIVERY ROOM
BACK OF HOUSE
FOOD SERVICE
COFFEE
RETAIL
RETAIL WALK-IN REFRIG.
SELF SERVICE WALK-IN REFRIG.
ALCOVE
REF ARCH PLANS FOR MOUNTING HEIGHT
ENSURE NEAT AND CLEAN INSTALLATION OF ALL EXPOSED DUCTWORK AND AIR DEVICES. AT THE TERMINATION OF WORK, CLEAN ALL EXPOSED DUCTWORK AND AIR DEVICES: EXPOSED DUCTS AND AIR DEVICES SHALL BE FREE OF DIRT, DEBRIS, STICKERS, WRITING, SCRATCHES, OR OTHER FOREIGN OBJECTS OR CONTAMINANTS.
DOWN WITH DAMPER
ROUTE DUCT UP TO 18'-0" AFF
MOUNT BOTTOM OF GRILL 18'-0" AFF
TRANSITION TO SPIRAL
PROVIDE WITH INTEGRAL OPPOSED BLADE DAMPER
CENTER OF DUCT 18'-0" AFF

Date: 4/8/2025