Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 05/31/2024

PROJECT

06-03-24 WAWA #8443 HAZLET, NJ

3052 Rt 35

Hazlet, NJ 07730

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

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

- EF 1 needs a disconnect switch
- RTU-3 Humidity sensor issue

06-03-24 WAWA #8443 HAZLET, NJ

Project Issue Information

Issue Name : EF 1 needs a disconnect switch

Description : The speed controller was fried due to faulty wiring. Fan is operating at design airflow when wired direct so a replacement speed controller is not required. But a service disconnect should be installed for safety purposes.

Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	High	**Asset Tag :**	EF1
Originated Date :	06/04/2024 - Cody Collett - National TAB		

Project Issue Response Details

- **06/17/2024 National TAB - Tyler Youells**
  - Upon Return trip to complete TAB there is still no disconnect switch installed. Note the junction box is also open with no cover. recommend installing disconnect switch.

06-03-24 WAWA #8443 HAZLET, NJ

Project Issue Information

Issue Name : RTU-3 Humidity sensor issue

Description : The humidity sensor is not reading a constant value. The reading fluctuates from 44%-76%-88% and back. Wiring looks to have come undone or is incorrect. Recommend Mc rewire and double check sensor health.

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Priority : High

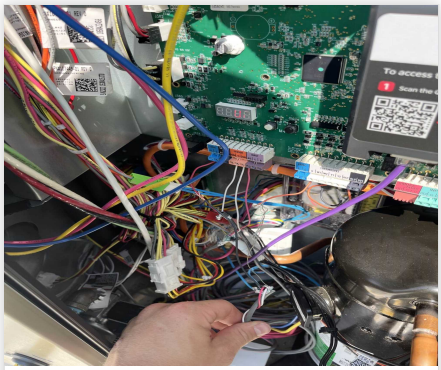
Asset Tag :

Originated Date : 06/17/2024 - Tyler Youells - National TAB

Project Issue File Details

IMG_7062
06/17/2024

IMG_7061
06/17/2024



IMG_7063
06/17/2024

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	RETAIL	3400	3329	2875	2814	525	515	15.4%	15.5%						
RTU-2	FOOD SERVIC	4000	3950	3325	3253	675	697	16.9%	17.6%						
RTU-3	RETAIL	2000	1959	1700	1646	300	313	15.0%	16.0%						
EF-1	RESTROOMS													300	303
EF-2	BACKROOM													900	868
TOTALS		9400	9238	7900	7713	1500	1525			0	0	0	0	1200	1171

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1500	1525
TOTAL EXHAUST	1200	1171
NET AIRFLOW	300	354

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.0021
SIDE	
REAR	0.0044
AVERAGE	**0.0033**

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

- TECH - SITE PICTURES
- TECH - STEP 1: RTU's/AHU's
- TECH - STEP 2: LENNOX SETUP PARAMETERS
- TECH - STEP 3: SENSOR WIRING (LENNOX)
- TECH - STEP 4: EF'S
- TECH - STEP 5: CLOSEOUT CHECKS

06-03-24 WAWA #8443 HAZLET, NJ

CheckList Information

Name :	TECH - SITE PICTURES	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/31/2024 - Brianna Biggs - National TAB		
Completed Date :	06/07/2024 - Cody Collett - National TAB		

CheckList Item Details

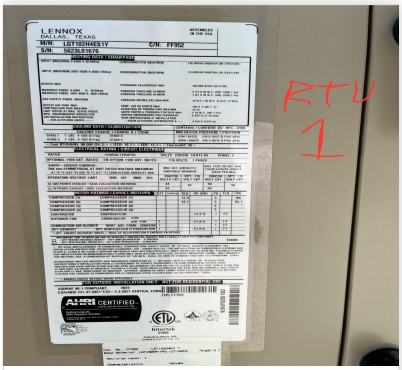
STORE FRONT

Comment:

IMG_0542
06/07/2024

RTU-1

Comment:

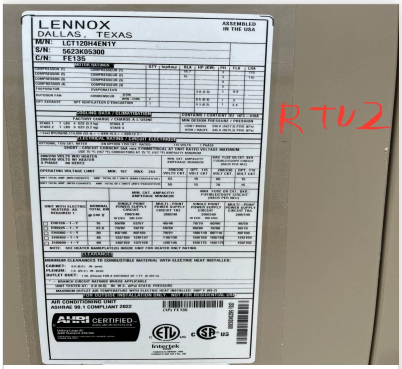


IMG_0525
06/07/2024

IMG_0526
06/07/2024

RTU-2

Comment:



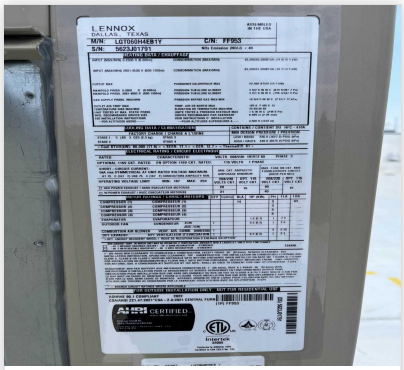
IMG_0523
06/07/2024

IMG_0524
06/07/2024

RTU-3

Comment:

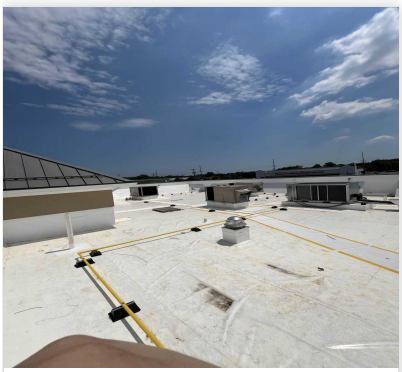
IMG_0521
06/07/2024



IMG_0522
06/07/2024

EF-1

Comment:



IMG_0528
06/07/2024

EF-2

Comment:

IMG_0528
06/07/2024

06-03-24 WAWA #8443 HAZLET, NJ

CheckList Information

Name :	TECH - STEP 1: RTU's/AHU's	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/31/2024 - Brianna Biggs - 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:

Minor duct leakage only at damper screw holes. Total airflow meets design airflow.

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 3 cool lat 51.5 eat 69.2 Rtu 2 cool lat 49.7 eat 67.8 Rtu 1 cool lat 62.2 eat 67.4

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

Comment:

Rtu 3 Heat let 112 eat 74.4 Rtu 2 Heat no heat installed Rtu 1 Heat let 90.5 eat 76.3

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

Comment:

RTU-1 LAT:65.8F/70% RH EAT: 72.7F/63%RH RTU-2 LAT:66.8F/71.4%RH EAT: 73.3F/62.1%RH RTU-3 LAT: 69.8F/45.8%RH EAT: 73.0F/57%RH

06-03-24 WAWA #8443 HAZLET, NJ

CheckList Information

Name :	TECH - STEP 2: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/31/2024 - Brianna Biggs - National TAB		
Completed Date :	06/06/2024 - Cody Collett - National TAB		

CheckList Item Details

UNIT ID CONFIGURATIONS

BACNET CONFIGURATION: GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "B".	Pass
Comment:	
NETWORK CONFIGURATION: GO TO SETUP>NETWORK INTEGRATION, SET TO BACNET	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 START OPEN PPM: 1200	N/A

Comment:

Parameter 117 was not “start open PPM”

PARAMETER 118 CO2 START OPEN PPM: 1500	Pass

Comment:

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

Comment:

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

Comment:

PARAMETER 154 OCC BLOWER MODE: ON-CONTINUOUS 1	Pass

Comment:

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

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:	

06-03-24 WAWA #8443 HAZLET, NJ

CheckList Information

Name :	TECH - STEP 3: SENSOR WIRING (LENNOX)	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/31/2024 - Brianna Biggs - 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.	Fail
Comment: RTU-3 sensor wiring has come loose or has been removed by someone found during return TAB trip	
Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)	Fail
Comment: RTU-1:58% RTU-2:63% RTU-3: ERROR, Sensor value is constantly jumping from 44%-76%-88% and back	

06-03-24 WAWA #8443 HAZLET, NJ

CheckList Information

Name :	TECH - STEP 4: EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	05/31/2024 - Brianna Biggs - National TAB		
Completed Date :	06/06/2024 - Cody Collett - 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%?	Pass
Comment:	

06-03-24 WAWA #8443 HAZLET, NJ

CheckList Information

Name : TECH - STEP 5: CLOSEOUT CHECKS **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 05/31/2024 - Brianna Biggs - 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: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: AHU/RTU

Asset: RTU1 AREA:RETAIL

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623L01676
Model Num	LGT102H4E	LGT102H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23”x14”
Num Final Filter 1	-	4
Final Filter Size 1	-	20”x25”x2”

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.75	3.8
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	200/240
Rated Amperage	-	8.8
Service Factor	-	NL

Test Data		
	Design	**Actual**
SF CFM	3400	3329
SF RPM	-	1694
MOTOR RPM	-	1694
RA CFM	2875	2814
OA CFM	525	515
RL Voltage	-	206/207/209
RL Amperage	-	4.75/4.76/4.78
SF System SetPt	-	77%
RA Damper Position	-	MECHANICAL LINKAGE
OA Damper Position	-	25%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.92"
Fan Suction SP	-	-1.25"
Fan Discharge SP	-	0.81"
Total ESP	0.5"	1.73"
Fan Total SP	-	2.06"

Completed By: Tyler Youells on 06/17/2024

National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

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	LD1	10"	380	1	436	92	365	96.1
SGRD2	RETAIL	LD1	10"	380	1	292	410	356	93.7
SGRD3	RETAIL	LD1	10"	380	1	292	355	363	95.5
SGRD4	RETAIL	LD1	10"	400	1	594	386	392	98.0
SGRD5	ASSOCIATES	CD1	8"	150	1	250	272	140	93.3
SGRD6	OFFICE	CD1	8"	150	1	299	170	157	104.7
SGRD7	RETAIL	LD1	10"	380	1	491	372	379	99.7
SGRD8	RETAIL	LD1	10"	380	1	66	456	366	96.3
SGRD9	RETAIL	LD1	10"	400	1	610	426	390	97.5
SGRD10	RETAIL	LD1	10"	400	1	150	406	421	105.3
Total				3400		3480	3345	3329	97.91%

Completed By: Tyler Youells on 06/17/2024

National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: AHU/RTU

Asset: RTU2 AREA:FOOD SERVICE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623K05300
Model Num	LCT120H4E	LCT120H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23”x14”
Num Final Filter 1	-	4
Final Filter Size 1	-	20”x25”x2”

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	300/240
Rated Amperage	-	8.8

Test Data		
	Design	**Actual**
SF CFM	4000	3950
SF RPM	-	1716
MOTOR RPM	-	1716
RA CFM	3325	3253
OA CFM	675	697
RL Voltage	-	207/209/208
RL Amperage	-	4.79/4.79/4.88
SF System SetPt	-	78%
RA Damper Position	-	MECHANICAL LINKAGE
OA Damper Position	-	29%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.54”
Fan Suction SP	-	-0.93”
Fan Discharge SP	-	0.68”
Total ESP	0.5"	1.22"
Fan Total SP	-	1.61"

Completed By: Cody Collett on 06/06/2024

National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

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	BACKROOM	LD1	10"	350	0.96	426	426	365	104.3
SGRD2	BACKROOM	LD1	10"	350	0.96	500	500	341	97.4
SGRD3	BACKROOM	LD1	10"	350	0.96	252	252	352	100.6
SGRD4	BACKROOM	LD1	10"	350	0.96	323	323	351	100.3
SGRD5	BACKROOM	LD1	10"	350	0.96	317	317	330	94.3
SGRD6	BACKROOM	LD1	10"	350	0.96	483	483	334	95.4
SGRD7	BACKROOM	CD1	10"	300	1	471	471	305	101.7
SGRD8	BACKROOM	CD1	10"	350	1	444	444	351	100.3
SGRD9	BACKROOM	CD1	10"	350	1	360	360	350	100.0
SGRD10	BACKROOM	CD1	10"	350	1	340	340	376	107.4
SGRD11	ELECTRICAL RM	CD1	12"	550	1	422	422	495	90.0
Total				4000		4338	4338	3950	98.75%

Completed By: Cody Collett on 06/06/2024

National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: AHU/RTU

Asset: RTU3 AREA:RETAIL

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5623J01791
Model Num	LGT060H4E	LGT060H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20”x20”x2”

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	1	1.0
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	7.4
Service Factor	-	NL

Test Data		
	Design	**Actual**
SF CFM	2000	1959
RA CFM	1700	1646
OA CFM	300	313
RL Voltage	-	206
RL Amperage	-	6.9
SF System SetPt	-	72%
RA Damper Position	-	MECHANICAL LINKAGE
OA Damper Position	-	24%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.60”
Fan Suction SP	-	-0.80”
Fan Discharge SP	-	0.39”
Total ESP	0.5"	0.99"
Fan Total SP	-	1.19

Completed By: Cody Collett on 06/06/2024

National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

AHU/RTU

Diffuser Supply (GRD)

RTU3/RETAIL

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	FRONT VESTIBULE	CD2	10"	290	1	245	276	293	101.0
SGRD2	WOMENS RR	CD3	6"	50	1	88	90	53	106.0
SGRD3	MENS RR	CD3	6"	50	1	77	91	55	110.0
SGRD4	RETAIL	LD1	8"	250	0.96	192	212	274	109.6
SGRD5	RETAIL	LD1	8"	250	0.96	129	161	227	90.8
SGRD6	RETAIL	LD1	8"	250	0.96	164	165	225	90.0
SGRD7	RETAIL		8"	150	1	249	165	146	97.3
SGRD8	RETAIL	LD1	8"	215	0.96	166	183	232	107.9
SGRD9	RETAIL	LD1	8"	215	0.96	208	236	196	91.2
SGRD10	DELIVERY RM	CD1	8"	160	1	175	178	154	96.3
SGRD11	REAR VESTIBULE	CD3	6"	100	1	107	101	104	104.0
Total				1980		1800	1858	1959	98.94%

Completed By: Cody Collett on 06/06/2024

National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOMS/JANITORS

Unit Data		
	Design	**Actual**
MFG	PENNBARRY	PENNBARRY
Model Num	DX10R	DX10R
Serial Num	-	L23AG85369
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	1/12	1/6
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.8
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	300	303
Fan RPM	1550	1550
Fan Rotation	-	CCW
Motor RPM	-	1550
System SetPt	-	WIRED DIRECT
RL Amperage	-	1.43
Total ESP	-	0.45"
Fan Inlet SP	-	-0.45”
Fan Discharge SP	-	ATM

Completed By: Cody Collett on 06/06/2024

National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/RESTROOMS/JANITORS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	WOMENS RR	G3	6"	100	1	64	94	94	94.0
EGRD2	JANITOR	G3	6"	50	1	98	48	48	96.0
EGRD3	MENS RR	G3	6"	150	1	165	161	161	107.3
Total				300		327	303	303	101%

Completed By: Cody Collett on 06/06/2024

National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: FAN - Exhaust

Asset: EF2 AREA:BACKROOM

Unit Data		
	Design	**Actual**
MFG	PENNBARRY	PENNBARRY
Model Num	DX13Q	DX13Q
Serial Num	-	NL
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	1/4	1/4
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.8
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	900	868
Fan RPM	1725	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	~30% ON DIAL
RL Amperage	-	4.43
Total ESP	-	1.06”
Fan Inlet SP	-	-1.06”
Fan Discharge SP	-	ATM

Completed By: Cody Collett on 06/06/2024

National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/BACKROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	BACKROOM	G1	10"	300	1	334	295	310	103.3
EGRD2	BACKROOM	G1	10"	500	1	501	462	466	93.2
EGRD3	STAGING RM	G1	6"	100	1	142	142	92	92.0
Total				900		977	899	868	96.44%

Completed By: Cody Collett on 06/06/2024

National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: FAN - Exhaust

Asset: EF3 AREA:ELECTRICAL

Unit Data		
	Design	**Actual**
MFG	PENNBARRY	PENNBARRY
Model Num	Z3H	Z3H
Type	INLINE	INLINE

Test Data		
	Design	**Actual**
CFM	60	64

Completed By: Cody Collett on 06/06/2024