Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 01/20/2026

Completed By: National TAB

PROJECT

03-16-26 WAWA #7222 SILVERTON, OH

7481 MONTGOMERY RD

SILVERTON, OH 45236

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

Table Of Contents

Project Summary

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

CheckList List

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

03-16-26 WAWA #7222 SILVERTON, OH

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/20/2026 - Trinity Dodds - 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?	
Comment:	
Motors are all operating below the FLA rating?	
Comment:	
Are belts tight?	N/A
Comment:	
If direct drive unit is the speed controller working?	
Comment:	
Is gas piping installed and valves turned on?	Pass

Comment:

Condensate drains are installed?	Pass

Comment:

Unit free of noticeable noise and vibration

Comment:

Final outside air damper position is marked with permanent marker?

Comment:

No alarms present?

Comment:

Any noticeable duct leakage?

Comment:

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

Comment:

Adjust side wall diffusers on spiral duct that blow towards the coffee island drop-in to prevent issues with it staying at temperature. Fan out of the deflector blades or reduce airflow as necessary to prevent drafting.

Comment:

IN TEST MODE, TEST THE FOLLOWING:

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

Comment:

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

Comment:

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

Comment:

03-16-26 WAWA #7222 SILVERTON, OH

CheckList Information

Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/20/2026 - Trinity Dodds - National TAB		

CheckList Item Details

COMBINATION TEMPERATURE/HUMIDITY SENSOR

Sensors are installed where shown on the drawing?

Comment:

2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.

Comment:

For second shielded cable, one wire is landed to Vout and the shield wire is not connected.

Comment:

Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)

Comment:

03-16-26 WAWA #7222 SILVERTON, OH

CheckList Information

Name :	04: EF'S	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/20/2026 - Trinity Dodds - National TAB		

CheckList Item Details

EF's

Rotation is correct?

Comment:

Belts are tight (if applicable)?

Comment:

Speed controller installed and functional (if applicable)?

Comment:

There is no major leakage around base of fan?

Comment:

Is the motor operating below the motor FLA rating?

Comment:

Back draft damper installed and can it fully open?

Comment:

Unit free of noticeable noise and vibration?

Comment:

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

Comment:

03-16-26 WAWA #7222 SILVERTON, OH

CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/20/2026 - Trinity Dodds - National TAB		

CheckList Item Details

SPACE COMFORT

Is space free of drafting?

Comment:

Is space comfortable in all areas?

Comment:

Is the space free of ventilation noise?

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)

Comment:

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Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: AHU/RTU

Asset: RTU-1 AREA:FOOD SERVICE/BOH

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGT150H5E	LGT150H5E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14”x23”
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	20”x25”x2”
Num Final Filter 2	-	
Final Filter Size 2	-	

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

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	**Actual**
SF CFM	4500	4574
SF RPM	-	
MOTOR RPM	-	
RA CFM	4000	
OA CFM	500	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
RA Damper Position	-	
RA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.70"	
Fan Total SP	-	

National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

AHU/RTU

Diffuser Supply (GRD)

RTU-1/FOOD SERVICE/BOH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	SPECIALTY BEVERAGE	SD-6	10"	450	1	588		460	102.2
SGRD2	SPECIALTY BEVERAGE	SD-6	10"	400	1	257		391	97.8
SGRD3	SPECIALTY BEVERAGE	SD-6	10"	400	1	500		422	105.5
SGRD4	BOH	SD-6	10"	450	1	362		469	104.2
SGRD5	BOH	SD-6	12"	500	1	481		506	101.2
SGRD6	BOH	SD-6	12"	500	1	349		450	90.0
SGRD7	FOOD SERVICE	SD-6	12"	600	1	736		655	109.2
SGRD8	FOOD SERVICE	SD-6	10"	350	1	418		349	99.7
SGRD9	WASHROOM	SD-6	10"	400	1	514		402	100.5
SGRD10	TRASH STAGING	SD-6	8"	200	1	218		200	100.0
SGRD11	ELECTRICAL	SD-6	10"	250	1	428		270	108.0
Total				4500		4851	0	4574	101.64%

Diffuser Ret/Exh (GRD)

RTU-1/FOOD SERVICE/BOH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOOD SERVICE	RG-1	14X14	1000					-
EGRD2	FOOD SERVICE	RG-1	14X14	1000					-
EGRD3	FOOD SERVICE	RG-1	14X12	800					-
EGRD4	FOOD SERVICE	RG-2	12X10	500					-
EGRD5	WASHROOM	RG-1	14X12	700					-
Total				4000		0	0	0	0%

National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: AHU/RTU

Asset: RTU-2 AREA:SALES/OFFICE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGT102H5E	LGT102H5E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14”x23”
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	20”x25”x2”
Num Final Filter 2	-	
Final Filter Size 2	-	

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

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	**Actual**
SF CFM	3400	3510
SF RPM	-	
MOTOR RPM	-	
RA CFM	2950	
OA CFM	450	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
RA Damper Position	-	
RA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.50"	
Fan Total SP	-	

National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

AHU/RTU

Diffuser Supply (GRD)

RTU-2/SALES/OFFICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	SALES	SD-2	12"	350	0.33				-
SGRD2	SALES	SD-2	12"	325	0.33				-
SGRD3	SALES	SD-2	16"	350	0.33				-
SGRD4	SALES	SD-2	16"	325	0.33				-
SGRD5	SALES	SD-2	16"	350	0.33				-
SGRD6	OFFICE	SD-1	8"	250	1				-
SGRD7	FRONT VEST	SD-5	8"	250	1				-
SGRD8	SALES	SD-2	16"	400	0.33				-
SGRD9	SALES	SD-2	14"	400	0.33				-
SGRD10	SALES	SD-2	14"	400	0.33				-
Total				3400		0	0	0	0%

Diffuser Ret/Exh (GRD)

RTU-2/SALES/OFFICE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	SALES	RG-5	12"	500					-
EGRD2	SALES	RG-4	18X16	1450					-
EGRD3	SPECIALTY BEVERAGE	RG-1	14X14	1000					-
Total				2950		0	0	0	0%

National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: AHU/RTU

Asset: RTU-3 AREA:SALES/RESTROOMS

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGT072H5E	LGT072H5E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14”x14”
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	20”x20”x2”
Num Final Filter 2	-	
Final Filter Size 2	-	

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

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	**Actual**
SF CFM	2400	2450
SF RPM	-	
MOTOR RPM	-	
RA CFM	2075	
OA CFM	325	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
RA Damper Position	-	
RA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.50"	
Fan Total SP	-	

National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

AHU/RTU

Diffuser Supply (GRD)

RTU-3/SALES/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	SALES	SD-2	16"	300	0.33			320	106.7
SGRD2	SALES	SD-2	16"	150	0.33			144	96.0
SGRD3	SALES	SD-2	16"	400	0.33			429	107.3
SGRD4	SALES	SD-2	16"	150	0.33			146	97.3
SGRD5	SALES	SD-2	16"	400	0.33			420	105.0
SGRD6	ASSOCIATE AREA	SD-6	8"	200		193		215	107.5
SGRD7	MEN'S RR	SD-5	8"	175		143		171	97.7
SGRD8	DELIVERY	SD-6	8"	250		204		241	96.4
SGRD9	WOMEN'S RR	SD-5	8"	125		177		135	108.0
SGRD10	REAR VEST	SD-5	8"	250		207		229	91.6
Total				2400		924	0	2450	102.08%

Diffuser Ret/Exh (GRD)

RTU-3/SALES/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	HALLWAY RR	RG-3	8"	125					-
EGRD2	SALES		24X20	1950					-
Total				2075		0	0	0	0%

National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:RESTROOMS

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

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.167	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	375	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.38"	

National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	MEN'S RR	EG-1	8X8	225	1	239			-
EGRD2	WOMEN'S RR	EG-1	8X8	150	1	224			-
Total				375		463	0	0	0%

National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

System/Unit: FAN - Exhaust

Asset: EF-2 AREA:BOH

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

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.167	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	400	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.38"	

National TAB

Project:03-16-26 WAWA #7222 SILVERTON, OH

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-2/BOH

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	BOH	RG-2	8X8	200					-
EGRD2	BOH	RG-2	8X8	200					-
Total				400		0	0	0	0%

National TAB

Project: 03-16-26 WAWA #7222 SILVERTON, OH

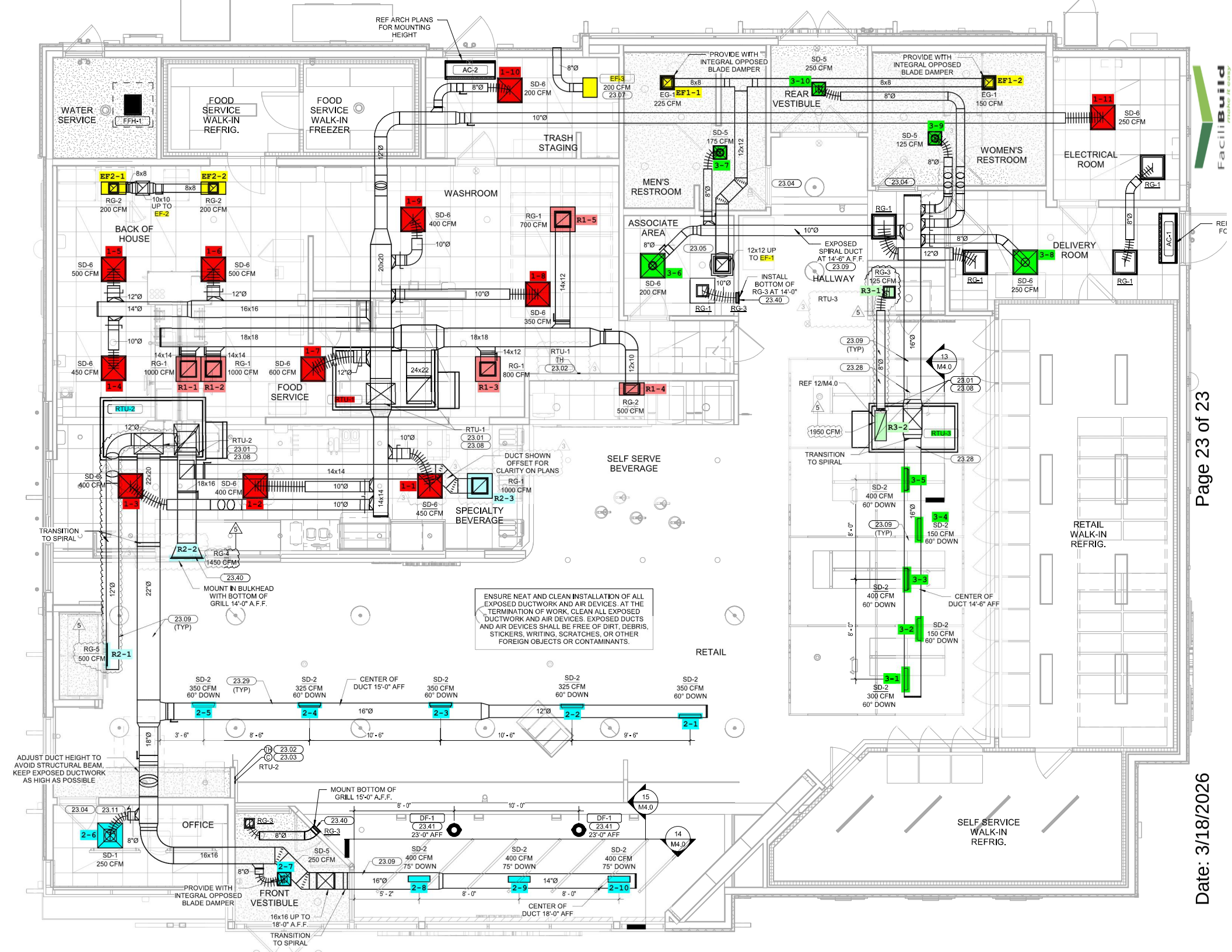
System/Unit: FAN - Exhaust

Asset: EF-3 AREA:TRASH ROOM

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

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.167	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	200	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.50"	
Fan Inlet SP	-	
Fan Discharge SP	-	



Date: 3/18/2026