Report By:

National TAB

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 08/27/2025

Completed By: National TAB

PROJECT

Wendy's (Parrish, FL)

8215 Moccasin Wallow Rd

Parrish, FL 34219

Client

SMT Mechanical, LLC

15153 Technology Dr.

Brooksville, FL 34604

National TAB

Project: Wendy's (Parrish, FL)

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Issue List

- RTU-2 Incorrect Blower Installed

Wendy's (Parrish, FL)

Project Issue Information

Issue Name :	RTU-2 Incorrect Blower Installed		
Description :	RTU-2 is noted to have a 5 hp blower on the submittals, however a 2hp package was installed. As a result only 85% of design airflow could be achieved. Diffusers were proportionally balanced to 85% of design. SMT Mechanical has discussed this issue with Aaon. Aaon has agreed to send a new blower package for this unit.		
Created By :	National TAB	**Assigned To :**	National TAB - Stephen Tassinaro
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	08/27/2025 - Stephen Tassinaro - 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	DINING	3400	3360	2350	2359	1050	1001	30.9%	29.8%						
RTU-2	KITCHEN	5000	4268	3450	2759	1550	1509	31.0%	35.4%						
KEF-1	HOOD1											1100	1048		
KEF-2	HOOD 2											1300	1223		
EF-1	BATHROOMS													150	151
TOTALS		8400	7628	5800	5118	2600	2510			0	0	2400	2271	150	151

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2600	2510
TOTAL EXHAUST	2550	2422
NET AIRFLOW	50	88

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

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:

National TAB

Project: Wendy's (Parrish, FL)

System/Unit: AHU/RTU

Asset: RTU-1 AREA:DINING RM

Unit Data		
	Design	**Actual**
MFG	NA	AAON
Serial Num	-	202309-ANEK28863
Model Num	NA	RN-013-8-0-GA84-132
Configuration	-	VERTICAL
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	182/4T
Horsepower	-	5.0
Motor Rpm	-	1760
Phase	3	3
Rated Voltage	208/230	200
Rated Amperage	-	14.6
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	3400	3360
SF RPM	-	821
RA CFM	2350	2359
OA CFM	1050	1001
RL Voltage	208/230	51.5V VFD
RL Amperage	-	7.63A VFD
SF Motor Freq(HZ)	-	28.0HZ
OA Damper Position	-	0.75”
Brake Horse Power	-	2.61

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.47”
Fan Discharge SP	-	0.16”
Total ESP	0.75	0.33”
Fan Total SP	-	0.64”
Final Filters P.D.	-	*0.31”
Cooling Coil P.D.	-	*
OA Temp (db/wb)	-	83.6F / 76.9F
RA Temp (db/wb)	-	67.6F / 61.3F
MA Temp (db/wb)	-	73.4F / 68.7F
SA Temp (db/wb)	-	55.5F / 52.3F

Completed By: Stephen Tassinaro on 08/27/2025

Notes:
Final filter and cooling coil P.D. combined.

Written By: Stephen Tassinaro on 08/27/2025

National TAB

Project:Wendy's (Parrish, FL)

AHU/RTU

Diffuser Supply (GRD)

RTU-1/DINING RM

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	HALL	C	8	200	376	193	96.5
SGRD2	102	D	5	50	105	54	108.0
SGRD3	101	A	14X12	440	880	456	103.6
SGRD4	101	A	14X12	440	765	413	93.9
SGRD5	101	A	14X12	440	1104	428	97.3
SGRD6	103	D	5	50	97	52	104.0
SGRD7	101	A	14X12	445	839	434	97.5
SGRD8	101	A	14X12	445	874	441	99.1
SGRD9	101	A	14X12	445	778	412	92.6
SGRD10	101	A	14X12	445	1156	477	107.2
Total				3400	6974	3360	98.82%

Diffuser Ret/Exh (GRD)

RTU-1/DINING RM

Asset								
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**FINAL CFM**	**% to design**
EGRD1	101	F	52X14	2350	1	2359	2359	100.4
Total				2350		2359	2359	100.38%

Completed By: Stephen Tassinaro on 08/27/2025

National TAB

Project: Wendy's (Parrish, FL)

System/Unit: AHU/RTU

Asset: RTU-2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	NA	AAON
Serial Num	-	202309-ANEL28864
Model Num	NA	RN-015-8-0-GA84-142
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23.25X17
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	143/5T
Horsepower	-	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208/230	200
Rated Amperage	-	6.19
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	5000	4268
SF RPM	-	1740
RA CFM	3450	2759
OA CFM	1550	1509
RL Voltage	208/230	214V VFD
RL Amperage	-	5.72A VFD
SF Motor Freq(HZ)	-	60HZ
OA Damper Position	-	1.0”
Brake Horse Power	-	1.85

Performance Data		
	Design	**Actual**
Fan Suction SP	-	-0.62”
Fan Discharge SP	-	0.25”
Total ESP	0.75	0.53”
Fan Total SP	-	0.87”
Final Filters P.D.	-	*0.34”
Cooling Coil P.D.	-	*
OA Temp (db/wb)	-	83.6F / 76.9F
RA Temp (db/wb)	-	68.3F / 61.4F
MA Temp (db/wb)	-	67.8F / 64.0F
SA Temp (db/wb)	-	51.0F / 49.4F

Completed By: Stephen Tassinaro on 08/27/2025

Notes:
Blower is to be replaced with 5HP assembly per AAON.
*Final filter and cooling coil P.D. combined.

Written By: Stephen Tassinaro on 08/27/2025

Diffuser Supply (GRD)

RTU-2/KITCHEN

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	107	C	12	500	249	395	79.0
SGRD2	105	B	12	450	394	397	88.2
SGRD3	105	B	12	450	471	368	81.8
SGRD4	106	B	12	450	445	378	84.0
SGRD5	105	B	12	450	365	354	78.7
SGRD6	105	B	12	450	370	403	89.6

SGRD7	105	B	12	450	382	372	82.7
SGRD8	104	C	12	450	312	415	92.2
SGRD9	104	C	12	450	363	417	92.7
SGRD10	104	C	12	450	325	403	89.6
SGRD11	104	C	12	450	347	366	81.3
Total				5000	4023	4268	85.36%

Diffuser Ret/Exh (GRD)

RTU-2/KITCHEN

Asset								
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**FINAL CFM**	**% to design**
EGRD1	107	E	16	1150	1	856	856	74.4
EGRD2	107	E	16	1150	1	990	990	86.1
EGRD3	107	E	16	1150	1	913	913	79.4
Total				3450		2759	2759	79.97%

Completed By: Stephen Tassinaro on 08/27/2025

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Project: Wendy's (Parrish, FL)

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:103

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVE AIRE
Model Num	NA	DR10HFA
Serial Num	-	7156980
Type	CENTRIFUGAL	CENTRIFUGAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Horsepower	-	0.166
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.9

Test Data		
	Design	**Actual**
CFM	150	151
Motor Frequency	-	55% ECM
RL Voltage	-	121
RL Amperage	-	0.9
Suction ESP	-	-0.13”
Total ESP	-	0.13”
Brake Horse Power	-	0.08

Completed By: Stephen Tassinaro on 08/27/2025

National TAB

Project:Wendy's (Parrish, FL)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/103

Asset								
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**FINAL CFM**	**% to design**
EGRD1	ACC FAMILY RRR		12X12	75	1	141	73	97.3
EGRD2	FAMILY RR		12X12	75	1	148	78	104.0
Total				150		289	151	100.67%

Completed By: Stephen Tassinaro on 08/26/2025

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Project: Wendy's (Parrish, FL)

System/Unit: FAN - Exhaust

Asset: KEF-1 AREA:HOOD-1

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU85HFA
Serial Num	-	7156980
Type	CRE UPBLAST	CENTRIFUGAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO INTERCON
Frame	-	48
Horsepower	0.75	1.0
Motor Rpm	1230	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	6.9

Test Data		
	Design	**Actual**
CFM	1100	1048
Motor Frequency	-	54% ECM
RL Voltage	208	206
RL Amperage	5.2	3.3
Suction ESP	-	-0.59”
Total ESP	1.250	0.59”
Brake Horse Power	-	0.48

Completed By: Stephen Tassinaro on 08/27/2025

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Project: Wendy's (Parrish, FL)

System/Unit: FAN - Exhaust

Asset: KEF-2 AREA:HOOD-2

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU85HFA
Serial Num	-	7156980
Type	CRE UPBLAST	CENTRIFUGAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO INTERCON
Frame	-	48
Horsepower	0.75	1.0
Motor Rpm	1280	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	6.9

Test Data		
	Design	**Actual**
CFM	1300	1223
Motor Frequency	-	61% ECM
RL Voltage	208	206
RL Amperage	5.2	4.1
Suction ESP	-	-0.67”
Total ESP	1.250	0.67”
Brake Horse Power	-	0.59

Completed By: Stephen Tassinaro on 08/27/2025

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Project: Wendy's (Parrish, FL)

System/Unit: Kitchen Hood Type I

Asset: HOOD-1 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	7156980
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	78	78
Hood Width	54	54

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	6.48	6.48
Filter1 FPM	-	168
Filter2 FPM	-	157
Filter3 FPM	-	168
Filter4 FPM	-	154
Filter Ave FPM(corr)	-	161.75
CFM	1100	1048

Cooking Equipment	
	Actual
Item 1	GRILLS

Completed By: Stephen Tassinaro on 08/27/2025

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Project: Wendy's (Parrish, FL)

System/Unit: Kitchen Hood Type I

Asset: HOOD-2 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	7156980
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	96	96
Hood Width	54	54

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	8.10	8.10
Filter1 FPM	-	158
Filter2 FPM	-	151
Filter3 FPM	-	159
Filter4 FPM	-	148
Filter5 FPM	-	139
Filter Ave FPM(corr)	-	151.0
CFM	1300	1223

Cooking Equipment	
	Actual
Item 1	FRYERS

Completed By: Stephen Tassinaro on 08/27/2025

ROOF TOP UNIT SCHEDULE

DIRECT DRIVE

ROOF TOP UNIT:		RTU-1	RTU-2
MANUFACTURER	-	AAON	AAON
MODEL		#D03-B-0-GAB4-132	RN-015-B-0-GAB4-142
SUPPLY AIR	CFM	3400	5000
OUTSIDE AIR	CFM	1050	1550
ENTERING AIR	DB/WB	82.6/72.8	82.7/72.8
LEAVING AIR	DB/WB	58.8/57.8	62.2/60.3
CAPACITY	TONS	13	15
TOTAL COOLING	BTUH	144,000	170,000
SENSIBLE COOLING	BTUH	-	-
EXT. S.P.	IN. H2O	.75	.75"
ELECTRIC HEAT	KW/V,FLA	22.5/208V, 3P,/62.5	30/208V, 3P,
EVAPORATOR FAN	HP/FLA	5.0/15.2	5.0/15.2
COMPRESSOR	NO./RLA	2/20.3 EA.	2/26.3 EA.
CONDENSING FAN	NO./FLA	2/1.4 EA.	2/1.4 EA.
ELECTRICAL DATA	V/ø	208/230V, 3P,	208/230V, 3P,
MCA	AMPS	97	123
FUSE/MOCP	-	100	125
EFFICIENCY	EER/IEER	12.5/16.2	11.6/15.5
WEIGHT	LBS.	1819	1820
NOTES	PER BELOW	1-7	1-7

NOTES:
1. HVAC CONTRACTOR SHALL COORDINATE ELECTRICAL DATA WITH ELECTRICAL CONTRACTOR PRIOR TO ORDER OF EQUIPMENT.
2. UNIT SHALL HAVE A SINGLE POINT ELECTRICAL CONNECTION.
3. PROVIDE MANUFACTURER STANDARD 14" HIGH CURB.
4. PERMANENTLY LABEL ALL SYSTEMS WITH THE RTU DESIGNATION.
5. PROVIDE FACTORY TWO-POSITION OUTSIDE AIR DAMPER. DAMPER SHALL CLOSE WHEN UNIT IS NOT RUNNING.
6. INSTALL FILTERS IN UNIT PRIOR TO START UP AND PROVIDE NEW SET OF FILTERS AT COMPLETION OF CONSTRUCTION.
7. FACTORY INSTALLED HOT GAS REHEAT COIL FOR DEHUMIDIFICATION CONTROL.

KEYED NOTES:

1. INSTALL GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TRANSITION FROM HOOD COLLAR TO DUCT SIZE SHOWN AND EXTEND 16 GAGE CARBON STEEL GREASE EXHAUST DUCTWORK WELDED LIQUID TIGHT UP TO EXHAUST FAN. WRAP GREASE DUCT WITH COMPOSITE GREASE DUCT ENCLOSURE ASSEMBLY PER HVAC SPECIFICATIONS. INSTALL EXHAUST DUCT WRAP PER MANUFACTURER'S INSTRUCTIONS. PROVIDE "FASTDOOR XL" GREASE DUCT CLEANOUT ACCESS DOORS (C.O.D.) MANUFACTURED BY THERMAL CERAMICS (OR EQUIVALENT) AT EVERY CHANGE OF DIRECTION IN THE DUCT AND EVERY 10 FEET. PROVIDE MINIMUM 3 FEET CLEARANCE IN FRONT OF ACCESS DOORS. INSULATE ACCESS DOORS TO MAINTAIN RATINGS OF GREASE DUCT ENCLOSURE PER FIRE PROTECTION INSULATION MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE COMBINATION AUDIO/VISUAL ALARM AND REMOTE TEST STATION (SYSTEM SENSOR RTS2) IN OFFICE MOUNT 84" ABOVE FINISHED FLOOR AND PROVIDE LABEL NAMEPLATE WITH ½ HEIGHT LETTERING (BLACK ON WHITE) FOR WHICH UNIT IT MONITORS. INSTALLATION SHALL MEET ALL CRITERIA AS PRESCRIBED IN NFPA 90A AND NFPA 72.
3. NEW PACKAGED ROOF TOP AIR CONDITIONER AND CURB COORDINATED WITH ARCHITECTURAL ROOF PLAN. STRUCTURE DRAWINGS, AND THE GENERAL CONTRACTOR PRIOR TO ORDER OF CURBS/UNITS. SHIM UNITS AND CURBS LEVEL FOR PROPER CONDENSATE DRAINAGE. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. SECURE EQUIPMENT TO CURBS PER MANUFACTURER'S RECOMMENDATIONS AND AS DETAILED.
4. INSTALL THERMOSTATS FOR RTU-1 & RTU-2 IN OFFICE WITH SENSORS AT INDIVIDUAL ZONES AS INDICATED. THERMOSTATS AND REMOTE SENSORS ARE FURNISHED WITH FAN LIGHTING CONTROL PANEL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING REMOTE SENSORS WHERE INDICATED ON DRAWINGS. MOUNT SENSOR 60" A.F.F. IN CUSTOMER AREA AND ON WALL AS INDICATED AT 72" A.F.F. IN KITCHEN AREA. INSTALL THERMOSTATS FOR RTU-1 & RTU-2 IN MANAGERS OFFICE WITH SENSORS AT INDIVIDUAL ZONES AS INDICATED.
5. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND SENSING TUBE, AND INTERLOCK TO SHUT DOWN ROOFTOP UNIT ON DETECTION OF SMOKE. SMOKE DETECTOR SHALL BE SYSTEM SENSOR INNOVAIR FLEX D4240 4-WIRE PHOTOELECTRIC.
6. PROVIDE CURB AND ROOF MOUNTED EXHAUST FAN. ENSURE THAT TOP OF EXHAUST FAN IS AT LEAST 40" ABOVE ROOF SURFACE.
7. PROVIDE HUMIDITY SENSOR. INSTALL AT 60" A.F.F.
8. RUN 10"ø CONNECTION FROM HOOD TO HEF-1 ON ROOF. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION. USE FACTORY-MANUFACTURED PIPE AND FITTINGS ONLY. CONFIRM LOCATION ON SITE WITH MOST REGENT KITCHEN PLANS. PROVIDE GRAVITY BACKDRAFT DAMPER PER CODE.
9. RUN 12"ø CONNECTION FROM HOOD TO HEF-2 ON ROOF. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION. USE FACTORY-MANUFACTURED PIPE AND FITTINGS ONLY. CONFIRM LOCATION ON SITE WITH MOST RECENT KITCHEN PLANS. PROVIDE GRAVITY BACKDRAFT DAMPER PER CODE.
10. STAINLESS STEEL WALL PANEL AT EACH HOOD. FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
11. BOTTOM TAP FROM MAIN DUCT TO DIFFUSER.
12. EXPOSE DINING ROOM DUCTWORK AND DIFFUSERS VISIBLE TO THE PUBLIC SHALL BE PAINTED TO MATCH CEILING.
13. PROVIDE COOK MODEL PR SIZE 8 EXHAUST VENTILATOR WITH 8x8 SHEET METAL PLENUM EXTENDED DOWN FOR CONNECTION OF EXHAUST DUCTS. REFER TO DETAIL #5 ON M2.

OUTSIDE AIR CALCULATIONS:

(PER TABLE 403.3.1.1 2023 FBC MECHANICAL, 8th EDITION)
RESTAURANT DINING ROOM OCCUPANCY:
NET OCCUPIABLE SPACE = 882 SQ. FT.
TOTAL PERSONS x 7.5 + .18 x NET SQ. FT. = REQ'D CFM.
882 x .18 = 158.76 CFM
CUSTOMER SEATING: 42 PERSONS
STAFF: 9 PERSONS

TOTAL PERSONS x 7.5 + .18 x NET SQ. FT. = REQ'D CFM.
(51 x 7.5) + (.18 x 882) = 541.26 CFM REQUIRED.

OUTSIDE AIR PROVIDED:
RTU-1 - 1,050 CFM
RTU-2 - 1,550 CFM
TOTAL: 2,600 CFM - IN COMPLIANCE.

HVAC GENERAL NOTES

1. DUCT SIZES ARE CLEAR, INSIDE DIMENSIONS. VERIFY ALL DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION OR INSTALLATION. DUCTWORK FOR CONCEALED AREAS SHALL BE GALVANIZED SHEET METAL WITH 2", ¾ LB DENSITY, FOIL FACED EXTERNAL INSULATION. DUCTWORK FOR EXPOSED AREAS SHALL BE DOUBLE WALL STEEL SPIRAL WITH FACTORY FITTINGS AND A "R" VALUE OF 4.0. ALL JOINTS AND CONNECTIONS TO BE SEALED WITH MASTIC. EXHAUST DUCT AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL SNAP-LOCK WITH ALL JOINTS SEALED WITH MASTIC. ALL DUCT SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA REQUIREMENTS.
2. ALL BRANCH CONNECTIONS SHALL BE CLASS ONE FLEXIBLE DUCT WITH A MANUAL VOLUME DAMPER INSTALLED IN THE COLLAR AT THE MAIN TRUNK FOR BALANCING PURPOSES. BRANCH CONNECTIONS FOR EXPOSED DUCTWORK SHALL BE DOUBLE WALL STEEL SPIRAL.
3. ALL SYSTEMS 2000 CFM AND OVER SHALL HAVE A SMOKE DETECTOR INSTALLED IN THE SUPPLY DOWN DUCTWORK. DETECTOR SHALL BE 24 VOLT POWERED FROM THE UNIT'S LOW VOLTAGE PANEL UNLESS THERE IS A FIRE ALARM SYSTEM. THEN THE DETECTOR SHALL BE 120 VOLTS, SUPPLIED BY THE FIRE ALARM CONTRACTOR. INSTALLED BY THE HVAC CONTRACTOR AND WIRED BY FIRE ALARM. PROVIDE LED, AND HORN ALARM STATIONS IN AREA MONITORED DURING BUSINESS HOURS, PER CODE.
4. ALL ROOF AND WALL PENETRATIONS SHALL BE MADE AND SEALED BY THE GENERAL CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE SUBMITTAL DATA IN PDF FORMAT FOR APPROVAL.
6. DEVIATION FROM MATERIALS, METHODS, OR PROCEDURES SET FORTH HERIN MUST BE APPROVED, IN WRITING, BY ENGINEER PRIOR TO SUBMISSION OF BID, ORDER, FABRICATION OR INSTALLATION.
7. ANY AND ALL QUESTIONS AS TO THE INTENT OF, OR PROCEDURES SET FORTH IN THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF A BID. LACK OF KNOWLEDGE OR UNDERSTANDING OF PLANS SHALL NOT JUSTIFY ANY CLAIMS OR EXTRA COMPENSATION.
8. INSTALLATION SHALL COMPLY WITH THE 2023 FBC-MECHANICAL, 8th EDITION AND ALL APPLICABLE LAWS, CODES, AND ORDINANCES.
9. THE HVAC CONTRACTOR SHALL COORDINATE ALL EQUIPMENT, DUCT, & DIFFUSER LOCATIONS AND CLEARANCES WITH ALL OTHER TRADES ON PROJECT, IN PRECONSTRUCTION MEETING, PRIOR TO ANY ORDER, FABRICATION, OR INSTALLATION.
10. THERMOSTATS SHALL BE MANUFACTURER 7-DAY PROGRAMMABLE MODEL WITH SUB-BASE. ALL DUAL-COMPRESSOR OR UNLOADING SYSTEMS SHALL HAVE TWO STAGE HEAT/COOL THERMOSTATS. MOUNT THERMOSTATS AT 48" ABOVE FINISHED FLOOR, TYPICAL.
11. SUPPLY DUCTWORK SHALL BE CONSTRUCTED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS FOR A 1" POSITIVE STATIC PRESSURE CLASSIFICATION.
12. RETURN AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS FOR A 1" NEGATIVE STATIC PRESSURE.
13. ALL EXHAUST FAN DISCHARGES AND PLUMBING VENTS SHALL BE A MINIMUM OF 10'-0" FROM FRESH-AIR INTAKES. COORDINATE WITH PLUMBING PLANS PRIOR TO INSTALLATION.
14. PLANS AND DIAGRAMS/DETAILS ARE SCHEMATIC ONLY AND REPRESENT THE GENERAL INTENT OF WHAT IS TO BE INSTALLED AND SHOULD NOT BE SCALED. THE HVAC CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION WITH ALL STRUCTURAL AND FIELD CONDITIONS AS WELL AS INSTALLATION HEIGHTS OF PIPING, CONDUIT, ETC. OF OTHER TRADES WHOSE SCOPE OVERLAYS THAT OF THE HVAC CONTRACTOR.
15. REFRIGERANT COPPER LIQUID AND SUCTION LINES SHALL BE TYPE 'L' SOFT DRAWN AND SIZED PER MANUFACTURER'S RECOMMENDATIONS. INSULATE SUCTION LINE WITH 3/4" THICK "ARMAFLEX" INSULATION. TAPE ALL JOINTS TIGHT TOGETHER. REFRIGERANT PIPING CONFIGURATION SHALL ASSURE THAT THE REFRIGERANT OIL SATISFACTORILY RETURNS TO THE COMPRESSOR. PAINT ALL EXPOSED INSULATION WITH UV RESISTANT WHITE PAINT.
16. EXTEND SCHEDULE 40 PVC CONDENSATE DRAIN LINES FROM RTUs TO ROOF DRAIN OR DOWNSPOUT. PROVIDE DRYWELL WITH RIVER GRAVEL BENEATH DOWNSPOUT IF NO APPROVED SURFACES EXIST ON WHICH TO DRAIN.
17. THE MECHANICAL CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY TO TEST AND BALANCE ALL HVAC SYSTEMS ON THIS PROJECT. THE TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER FOR REVIEW AND ACCEPTANCE. THE TEST AND BALANCE CONTRACTOR SHALL INCLUDE THE PROVISION FOR ADJUSTMENTS REQUESTED BY THE MECHANICAL ENGINEER-OF-RECORD AND RESUBMITTAL OF THE REVISED TEST AND BALANCE REPORT. THE AIR DEVICES IN EACH SPACE SHALL BE BALANCED TO WITHIN 10% OF THE AIRFLOW QUANTITIES INDICATED ON THE MECHANICAL DRAWINGS. TESTING AGENCY SHALL BE AABC OR NEBB CERTIFIED.
18. THE HVAC CONTRACTOR SHALL ANTICIPATE AND PROVIDE ALL INCIDENTAL AND PERIPHERAL ITEMS WHICH ARE OBVIOUSLY REQUIRED AND NECESSARY TO COMPLETE THE INSTALLATION REGARDLESS IF THESE ITEMS ARE SPECIFIED AND/OR SHOWN ON THE PLAN(S).

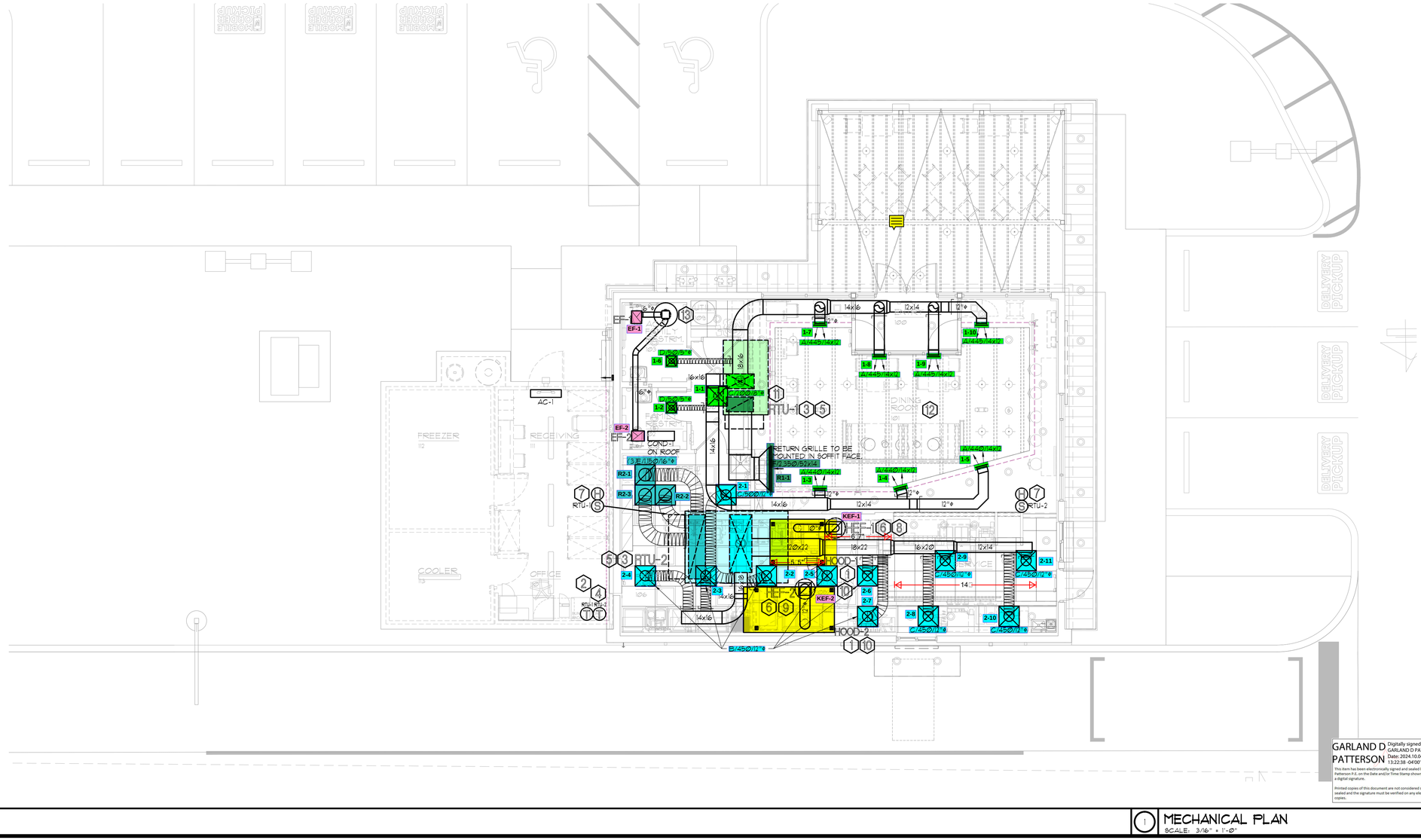
BUILDING AIR BALANCE SCHEDULE

POSITIVE SOURCES:		NEGATIVE SOURCES:	
RTU-1	1,050 CFM	EF-1	70 CFM
RTU-2	1,550 CFM	EF-2	70 CFM
		HEF-1	900 CFM
		HEF-2	1,300 CFM
TOTAL:	2,600 CFM	TOTAL:	2,340 CFM

RESULTING TOTAL AIR BALANCE: 260 CFM POSITIVE

HVAC LEGEND

- CEILING SUPPLY DIFFUSER
- CEILING RETURN
- CEILING EXHAUST FAN
- HUMIDITY SENSOR
- THERMOSTAT
- TEMP SENSOR
- SMOKE DETECTOR
- VOLUME DAMPER
- NEW RIGID DUCT
- CLASS 1 FLEXIBLE DUCT



GARLAND D PATTERSON Digitally signed by GARLAND D PATTERSON Date: 2024.10.04 13:22:38 -04'00'
This item has been electronically signed and sealed by Garland Patterson P.E. on the Date and/or Time Stamp shown by using a digital signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

1 MECHANICAL PLAN
SCALE: 3/16" = 1'-0"

SITE NUMBER: 14377
BASE MDL: GLOBAL NEXT GEN 30
ASSET TYPE: FREESTANDING
CLASSIFICATION: NEW
OWNER:
BASE VERSION: 2024
UPGRADE CLASSIFICATION: NEW BUILD
PROJECT YEAR: 2024
DESIGN TYPE: GLOBAL
DRAWING RELEASE SPRING 2024

PROJECT TYPE: NEW GLOBAL NEXT GEN 30

Wendy's
8215 MOCCASIN WALLOW RD
PARRISH, FL 34219 MANATEE COUNTY

REV. | DATE / DESCRIPTION | BY

ISSUE DATE: 09.30.24
PROJECT NUMBER: 24-021
PROJECT MANAGER: SEH
DRAWN BY: BMD

SEAL
GARLAND PATTERSON LICENSE NO. PE 14175 STATE OF FLORIDA PROFESSIONAL ENGINEER

GARLAND PATTERSON, P.E.
FL Lic. No.: 14175
SEPT. 30, 2024

MDDI FLORIDA, INC.
405 2nd Street South • Suite B
Safety Harbor, Florida 34695
Engineering Business No. 9204
Ph. 727.698.0398 Fax 727.797.8225

SHEET NAME
MECHANICAL PLAN

SHEET NUMBER
M1