CERTIFIED TEST, ADJUST, AND BALANCE REPORT

DATE

NOVEMBER 22, 2024

PROJECT

PINE BLUFF
6TH AVENUE DISTRICT

ARCHITECT

TAGGART ARCHITECTS
4500 BURROW DRIVE
NLR, AR 72116
(501)758-744

ENGINEER

BROWN ENGINEERS
17200 CHENAL PARKWAY #300
LITTLE ROCK, AR 72223
(501)448-0100

HVAC CONTRACTOR

COMFORT SYSTEMS USA
9924 LANDERS ROAD
NLR, AR 72117
(501)834-3320

NEBB TAB FIRM

AIRETECH CORPORATION
7631 Northshore Place
North Little Rock, Arkansas 72118

Certification Number: 2847

Firm Certification

AIRETECH CORPORATION

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFIED STATUS IN THE FOLLOWING DISCIPLINE

Testing, Adjusting and Balancing of Environmental Systems

2847

NEBB Certification Number

December 31, 2024

Expiration Date

NEBB President

NEBB President-Elect

Certification

DANIEL J. DRAPER

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFIED PROFESSIONAL STATUS IN THE FOLLOWING DISCIPLINE

Testing, Adjusting and Balancing of Environmental Systems

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires the Certificant be affiliated with a NEBB Certified Firm

CP-23442

NEBB Certification Number

December 31, 2024

Expiration Date

NEBB President

NEBB President-Elect

AIRETECH CORPORATION

7631 Northshore Place
North Little Rock, AR 72118
Phone: 501-280-0404
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Instrument Calibration List

	Function	Range	Accuracy	Make	Model #	Serial #	Calibration Date
AIR	Air Pressure Measurement	0 to 10.00 in.w.g.	± 2% of reading	Evergreen	S-PVF-1	1900682	6/12/2023
	Air Velocity Measurement	100 to 3500 fpm	± 5% of reading	Evergreen	S-PVF-1	1900682	6/12/2023
	Direct Reading Hood	25 to 2000 cfm	± 5% of reading, ± 7 cfm	Evergreen	S-PVF-1	1900682	6/12/2023
TEMPERATURE	Air Meter with Probe	0 to 200 ºF	± 0.5% of reading	Cooper	SRH77A-E	10709022	10/24/2023
	Immersion Meter with probe	0 to 200 ºF	± 0.5% of reading	Cooper	SRH77A-E	10709022	10/24/2023
HUMIDITY	Humidity Measurement	10 to 90% RH	± 3% RH	Cooper	SRH77A-E	10709022	10/24/2023
ELECTRICAL	Volts AC	0 to 600 VAC	± 2% of reading	Fluke	902	62201193MV	10/19/2023
	Amperes	0.1 to 100 Amps	± 2% of reading	Fluke	902	62201193MV	10/19/2023
ROTATION	Rotation Measurement	60 to 5000rpm	± 2% of reading	Extech	461995	H319421	11/21/2023
HYDRONIC	Hydronic Pressure Measurement	0.4 to 200 PSI	± 2% of reading	Dwyer	490W-6	01L6RK	1/31/2024
	Hydronic Differential Pressure	0.4 to 75 PSI	± 2% of reading	Dwyer	490W-6	01L6RK	1/31/2024

(N.E.B.B. # 2847)

AIRETECH
CORPORATION

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPS	HP	HEAT PUMP
AHU	AIR HANDLING UNIT	HW	HEATING WATER
BCU	BLOWER COIL UNIT	KEF	KITCHEN EXHAUST FAN
BTU	BRITISH THERMAL UNIT	LAT	LEAVING AIR TEMPERATURE
CD	CEILING DIFFUSER	LWT	LEAVING WATER TEMPERATURE
CFM	CUBIC FEET PER MINUTE	M/N	MODEL NUMBER
CH	CHILLER	MAT	MIXED AIR TEMPERATURE
CHW	CHILLED WATER	MAU	MAKE UP AIR UNIT
CW	CONDENSER WATER	NA	NOT APPLICABLE
COMP	COMPRESSOR	NL	NOT LISTED
COND	CONDENSER	NLA	NO LOAD AMPS
CRAC	COMPUTER ROOM AIR CONDITIONING	OAT	OUTSIDE AIR TEMPERATURE
CW	CHILL WATER	OAU	OUTSIDE AIR UNIT
DALT	DUCT AIR LEAKAGE TEST	OED	OPEN ENDED DUCT
DB	DRY BULB	PH	PRE-HEAT
DP	DIFFERENTIAL PRESSURE	RG	RETURN GRILLE
DP	DISCHARGE PRESSURE	RH	RE-HEAT
EAT	ENTERING AIR TEMPERATURE	RLA	RUN LOAD AMPS
EF	EXHAUST FAN	RTU	ROOF TOP UNIT
EG	EXHAUST GRILLE	S/N	SERIAL NUMBER
ERU	ENERGY RECOVERY UNIT	SF	SUPPLY FAN
ERV	ENERGY RECOVERY VENTILATOR	SG	SIDEWALL GRILLE
ESP	EXTERNAL STATIC PRESSURE	SP	SUCTION PRESSURE
EVAP	EVAPORATOR	TSP	TOTAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	V	VOLTS
FCU	FAN COIL UNIT	VAV	VARIABLE AIR VOLUME
FP	FAN POWERED	VRF	VARIABLE REFRIGERANT
FPM	FEET PER MINUTE	WB	WET BULB
GPM	GALLONS PER MINUTE		

PROJECT: PINE BLUFF 6TH AVENUE DISTRICT

THE DATA PRESENTED IN THIS REPORT IS A RECORD OF SYSTEM MEASUREMENTS & FINAL ADJUSTMENTS THAT HAVE BEEN OBTAINED IN ACCORDANCE WITH THE CURRENT ADDITION OF THE NEBB PROCEDURAL STANDARD FOR TESTING, ADJUSTING & BALANCING OF ENVIRONMENTAL SYSTEMS. THE MEASUREMENTS SHOWN, & THE INFORMATION GIVEN, IN THIS REPORT ARE CERTIFIED TO BE ACCURATE & COMPLETE, AT THE TIME & DATE INFORMATION WAS GATHERED. ANY VARIANCES FROM DESIGN QUANTITIES, WHICH EXCEED NEBB TOLERANCES, ARE NOTED IN THE TAB REPORT PROJECT SUMMARY.

SUBMITTED & CERTIFIED BY:
NEBB TAB FIRM: AIRETECH CORPORATION
REGISTRATION NUMBER: 2847
CERTIFIED BY (TAB SUPERVISOR): DANIEL J DRAPER
CERTIFICATION EXPIRATION DATE: 12/31/2024
SIGNATURE:

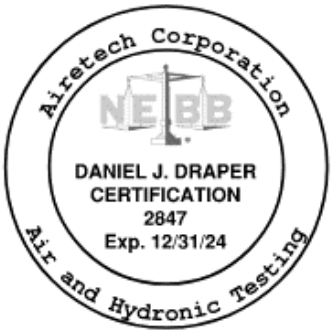


Table of Contents

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

REPORT SUMMARY

Test and Balance consisted of 1 air handling unit, 5 exhaust fans, 8 fan coil units and 1 unit heater.

AHU-01 was tested in both cooling/heating modes and all entering/leaving air temperatures were measured and recorded. Fan total was determined at associated outlets, fan speed was adjusted, and outlets were balanced to their associated designs. A static pressure profile was determined to verify system performance and validate fan total. Unit has a minimum fresh air requirement that was set through unit controller. All unit and motor operating data were measured and recorded.

Exhaust fans were tested to verify proper operation. Fan totals were determined at fan inlets using a direct reading flow hood and fan speeds were adjusted to design. All fan and motor operating data were measured and recorded.

Fan coil units were tested in both cooling/heating modes and all entering/leaving air temperatures were measured and recorded. Ductless split systems were tested in high speed per submittal. Fan totals for ducted units were determined at associated supply outlets, fan speeds were adjusted, and supply/return grilles were set to design. Ducted units have minimum fresh air requirements that were set to design via pitot tube duct traverse. All unit and motor operating data were measured and recorded.

Air Handling Unit

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: AHU-01

Tested By: Greg Rinehart
Date: 11/7/2024

Unit Data	
Unit Manufacturer	AAON
Unit Model Number	RN-025-8-0-EB09-38B
Unit Serial Number	202309-BNGR111220
Unit Discharge	Vertical
AHU-01/SF Filter Bank	
Filter Type	Pleated
Filter Qty - S1	6
Filter Size - S1	20x25x2

Test Data	
Design Airflow	8000 CFM
Actual Airflow	7765 CFM
Design Outside Airflow	2800 CFM
Actual Outside Airflow	2864 CFM
Design Return Airflow	5200 CFM
Actual Return Airflow	4901 CFM
AHU-01/Supply Fan	
Design RPM	1428 RPM
Actual RPM	1446 RPM
Motor Volts T1-T2	208 Volts
Motor Amps T1	22.10 Amps

Motor Data	
AHU-01/Supply Fan	
Motor Manufacturer	Baldor
Motor Frame	213T
Motor HP	7 1/2 HP
Motor RPM	1770 RPM
Motor Rated Volts	208 Volts
Motor Phase	3
Motor Hertz	60 Hz
Motor FL Amps	23.3 Amps
Motor Service Factor	1.15
Nominal Efficiency	0.91
Motor Power Factor	0.77
Belt Drive/Direct Drive	Direct Drive
VFD Freq Design	48.4 Hz
VFD Freq	49 Hz

Test Pressures	
Suction SP	-1.58 in. wc
Discharge SP	0.41 in. wc
Design Total SP	2.72 in. wc
Actual Total SP	1.99 in. wc
Design ESP	1.25 in. wc
Actual ESP	1.10 in. wc
O/A Damper Position	17 %
R/A Damper Position	83 %

Air Test Data	
AHU-01/Cooling Coil	
Ent Air DB Temp Design	85.0 Deg F
Ent Air WB Temp Design	68.9 Deg F
Leav Air DB Temp Design	56.2 Deg F
Leav Air WB Temp Design	54.8 Deg F
Ent. Air DB Temp Actual	71.0 Deg F
Ent. Air WB Temp Actual	62.0 Deg F
Lvg. Air DB Temp Actual	52.0 Deg F
Lvg. Air WB Temp Actual	50.0 Deg F
Air Temp Delta T Actual	19.0 Deg F
AHU-01/Heating Coil	
Ent Air DB Temp Design	48.8 Deg F
Leav Air DB Temp Design	92.2 Deg F
Ent. Air DB Temp Actual	71.0 Deg F
Lvg. Air DB Temp Actual	109.0 Deg F
Air Temp Delta T Actual	38.0 Deg F

Log:

AHU-01	11/11/2024	David DeMarco	Design supply minus OSA equals 5200 CFM. Return inlets are rated for 7000 CFM and were balanced proportional.

Air Handling Unit

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: AHU-01/SPP-01

Tested By: Greg Rinehart
Date: 11/7/2024

Test Pressures	
Pre Filter/Cooling Coil SP In	-0.69 in. w.c.
Pre Filter/Cooling Coil SP Out	-1.58 in. w.c.
Supply Fan SP In	-1.58 in. w.c.
Supply Fan SP Out	0.41 in. w.c.

AHU-01 Supply Outlet Summary

System/Unit	Area Served	Outlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Outlet-01	A201	S5	24X6	1200	1185	98.8	1156	96.3	Evergreen
Outlet-02	A201	S5	24X6	1200	1216	101.3	1183	98.6	Evergreen
Outlet-03	A201	S5	24X6	1200	1137	94.8	1176	98.0	Evergreen
Outlet-04	A201	S5	24X6	1200	1321	110.1	1214	101.2	Evergreen
Outlet-05	A200	S6	8	200	165	82.5	185	92.5	Evergreen
Outlet-06	A203	S3	8	450	140	31.1	417	92.7	Evergreen
Outlet-07	A204	S3	8	450	328	72.9	423	94.0	Evergreen
Outlet-08	A215	S3	8	120	80	66.7	112	93.3	Evergreen
Outlet-09	A217	S4	10	450	345	76.7	411	91.3	Evergreen
Outlet-10	A214	S4	10	300	375	125.0	308	102.7	Evergreen
Outlet-11	A213	S4	10	300	306	102.0	279	93.0	Evergreen
Outlet-12	A217	S4	10	450	282	62.7	430	95.6	Evergreen
Outlet-13	A212	S3	8	140	177	126.4	135	96.4	Evergreen
Outlet-14	A212	KH-04	6	34	83	244.1	32	94.1	Evergreen
Outlet-15	A212	KH-04	6	34	49	144.1	31	91.2	Evergreen
Outlet-16	A213	KH-03	6	34	42	123.5	32	94.1	Evergreen
Outlet-17	A213	KH-03	6	34	50	147.1	36	105.9	Evergreen
Outlet-18	A213	KH-03	6	34	84	247.1	31	91.2	Evergreen
Outlet-19	A214	KH-02	6	34	21	61.8	37	108.8	Evergreen
Outlet-20	A214	KH-02	6	34	39	114.7	37	108.8	Evergreen
Outlet-21	A214	KH-02	6	34	32	94.1	33	97.1	Evergreen
Outlet-22	A215	KH-01	6	34	36	105.9	32	94.1	Evergreen
Outlet-23	A215	KH-01	6	34	57	167.6	35	102.9	Evergreen
	Totals:	**-**	**-**	**8000**	**7550**	**94.4**	**7765**	**97.1**	**-**

AHU-01 Return Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	A205	R1	22X22	1750	1083	61.9	1282	73.3	Evergreen
Inlet-02	A205	R1	22X22	1750	1759	100.5	1199	68.5	Evergreen
Inlet-03	A205	R1	22X22	1750	1547	88.4	1236	70.6	Evergreen
Inlet-04	A205	R1	22X22	1750	996	56.9	1184	67.7	Evergreen
	Totals:	**-**	**-**	**7000**	**5385**	**76.9**	**4901**	**70.0**	**-**

Fan Unit

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: EF-01
AREA: A203

Tested By: Greg Rinehart
Date: 11/6/2024

Unit Data	
Fan Manufacturer	Cook
Fan Model Number	GEMINI 180
Fan Serial Number	NA

Test Data	
Design Airflow	225 CFM
Actual Airflow	243 CFM
Motor Volts T1-T2	120 Volts
Motor Amps T1	0.7 Amps

Motor Data	
Rated Airflow Capacity	225 CFM
Motor Manufacturer	QUEACE
Motor RPM	1350 RPM
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	1 Amps
Corrected FL Amps	0.96 Amps
Motor Type	Direct Drive
Direct Drive Speed	Low

SYSTEM/UNIT: EF-02
AREA: A204

Tested By: Greg Rinehart
Date: 11/6/2024

Unit Data	
Fan Manufacturer	Cook
Fan Model Number	GEMINI 180
Fan Serial Number	NA

Test Data	
Design Airflow	225 CFM
Actual Airflow	238 CFM
Motor Volts T1-T2	120 Volts
Motor Amps T1	0.6 Amps

Motor Data	
Rated Airflow Capacity	225 CFM
Motor Manufacturer	QUEACE
Motor RPM	1350 RPM
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	1 Amps
Corrected FL Amps	0.96 Amps
Motor Type	Direct Drive
Direct Drive Speed	Low

SYSTEM/UNIT: EF-03
AREA: A105

Tested By: Greg Rinehart
Date: 11/6/2024

Unit Data	
Fan Manufacturer	Cook
Fan Model Number	GEMINI 140
Fan Serial Number	NA

Test Data	
Design Airflow	75 CFM
Actual Airflow	78 CFM
Motor Volts T1-T2	121 Volts
Motor Amps T1	0.3 Amps

Motor Data	
Rated Airflow Capacity	75 CFM
Motor Manufacturer	QUEACE
Motor RPM	1550 RPM
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.4 Amps
Corrected FL Amps	0.38 Amps
Motor Type	Direct Drive
Direct Drive Speed	Low

Fan Unit

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: EF-04
AREA: A115

Tested By: Greg Rinehart
Date: 11/6/2024

Unit Data	
Fan Manufacturer	Cook
Fan Model Number	GEMINI 140
Fan Serial Number	NA

Test Data	
Design Airflow	75 CFM
Actual Airflow	80 CFM
Motor Volts T1-T2	121 Volts
Motor Amps T1	0.2 Amps

Motor Data	
Rated Airflow Capacity	75 CFM
Motor Manufacturer	QUEACE
Motor RPM	1550 RPM
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.4 Amps
Corrected FL Amps	0.38 Amps
Motor Type	Direct Drive
Direct Drive Speed	Low

SYSTEM/UNIT: EF-05
AREA: A122

Tested By: Greg Rinehart
Date: 11/5/2024

Unit Data	
Fan Manufacturer	Cook
Fan Model Number	GEMINI 140
Fan Serial Number	NA

Test Data	
Design Airflow	75 CFM
Actual Airflow	81 CFM
Motor Volts T1-T2	118 Volts
Motor Amps T1	0.3 Amps

Motor Data	
Rated Airflow Capacity	75 CFM
Motor Manufacturer	QUEACE
Motor RPM	1550 RPM
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.4 Amps
Corrected FL Amps	0.39 Amps
Motor Type	Direct Drive
Direct Drive Speed	Low

Fan Coil

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: DSFC-01A
AREA: A105

Tested By: Greg Rinehart
Date: 11/7/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	ARNS07CMWKNCV
Unit Serial Number	0JJBPDBT600962E
Filter Type	Washable
Filter Qty - S1	1

Test Data	
Cool Ent Air DB Temp Actual	67.0 Deg F
Cool Ent Air WB Temp Actual	59.0 Deg F
Cool Leav Air DB Temp Actual	46.0 Deg F
Cool Leav Air WB Temp Actual	45.0 Deg F
Heat Ent Air Temp Actual	65.0 Deg F
Heat Leav Air Temp Actual	97.0 Deg F
Heating Air Delta T	32.0 Deg F

Electrical Test Data	
Motor Volts T1-T2	212 Volts
Motor Amps T1	0.10 Amps

Motor Data	
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.12 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Air Test Data	
Design Airflow	350 CFM
Actual Airflow	350 CFM
Design OSA	0 CFM
Actual OSA	0 CFM
Design Rtn Airflow	350 CFM
Actual Rtn Airflow	350 CFM

SYSTEM/UNIT: DSFC-01B
AREA: A115

Tested By: Greg Rinehart
Date: 11/7/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	ARNS07CMWKNCV
Unit Serial Number	0JJBPDBT600360J
Filter Type	Washable
Filter Qty - S1	1

Test Data	
Cool Ent Air DB Temp Actual	69.0 Deg F
Cool Ent Air WB Temp Actual	62.0 Deg F
Cool Leav Air DB Temp Actual	48.0 Deg F
Cool Leav Air WB Temp Actual	47.0 Deg F
Heat Ent Air Temp Actual	66.0 Deg F
Heat Leav Air Temp Actual	104.0 Deg F
Heating Air Delta T	38.0 Deg F

Electrical Test Data	
Motor Volts T1-T2	210 Volts
Motor Amps T1	0.10 Amps

Motor Data	
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.12 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Air Test Data	
Design Airflow	350 CFM
Actual Airflow	350 CFM
Design OSA	0 CFM
Actual OSA	0 CFM
Design Rtn Airflow	350 CFM
Actual Rtn Airflow	350 CFM

Fan Coil

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: DSFC-01C
AREA: A101

Tested By: Greg Rinehart
Date: 11/7/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	ARNS07CMWKNCV
Unit Serial Number	0JJBPDBT600932V
Filter Type	Washable
Filter Qty - S1	1

Test Data	
Cool Ent Air DB Temp Actual	66.0 Deg F
Cool Ent Air WB Temp Actual	57.0 Deg F
Cool Leav Air DB Temp Actual	45.0 Deg F
Cool Leav Air WB Temp Actual	44.0 Deg F
Heat Ent Air Temp Actual	64.0 Deg F
Heat Leav Air Temp Actual	100.0 Deg F
Heating Air Delta T	36.0 Deg F

Electrical Test Data	
Motor Volts T1-T2	212 Volts
Motor Amps T1	0.10 Amps

Motor Data	
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.12 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Air Test Data	
Design Airflow	350 CFM
Actual Airflow	350 CFM
Design OSA	0 CFM
Actual OSA	0 CFM
Design Rtn Airflow	350 CFM
Actual Rtn Airflow	350 CFM

SYSTEM/UNIT: DSFC-01D
AREA: A118

Tested By: Greg Rinehart
Date: 11/7/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	ARNS07CMWKNCV
Unit Serial Number	0JJBPDBT600928A
Filter Type	Washable
Filter Qty - S1	1

Test Data	
Cool Ent Air DB Temp Actual	69.0 Deg F
Cool Ent Air WB Temp Actual	61.0 Deg F
Cool Leav Air DB Temp Actual	46.0 Deg F
Cool Leav Air WB Temp Actual	44.0 Deg F
Heat Ent Air Temp Actual	66.0 Deg F
Heat Leav Air Temp Actual	106.0 Deg F
Heating Air Delta T	40.0 Deg F

Electrical Test Data	
Motor Volts T1-T2	210 Volts
Motor Amps T1	0.10 Amps

Motor Data	
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.12 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Air Test Data	
Design Airflow	350 CFM
Actual Airflow	350 CFM
Design OSA	0 CFM
Actual OSA	0 CFM
Design Rtn Airflow	350 CFM
Actual Rtn Airflow	350 CFM

Fan Coil

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: DSFC-02
AREA: A209

Tested By: Greg Rinehart
Date: 11/6/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	AC024BNADCH
Unit Serial Number	0JFUPDCT200247D
Filter Type	Washable
Filter Qty - S1	1

Test Data	
Cool Ent Air DB Temp Actual	68.0 Deg F
Cool Ent Air WB Temp Actual	59.0 Deg F
Cool Leav Air DB Temp Actual	45.0 Deg F
Cool Leav Air WB Temp Actual	44.0 Deg F
Heat Ent Air Temp Actual	69.0 Deg F
Heat Leav Air Temp Actual	103.0 Deg F
Heating Air Delta T	34.0 Deg F

Electrical Test Data	
Motor Volts T1-T2	212 Volts
Motor Amps T1	0.30 Amps

Motor Data	
Motor HP	3/83 HP
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.42 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Air Test Data	
Design Airflow	629 CFM
Actual Airflow	629 CFM
Design OSA	0 CFM
Actual OSA	0 CFM
Design Rtn Airflow	629 CFM
Actual Rtn Airflow	629 CFM

SYSTEM/UNIT: DSFC-03
AREA: A121

Tested By: Greg Rinehart
Date: 11/5/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	AC024BNADCH
Unit Serial Number	0JFUPDCT200232E
Filter Type	Washable
Filter Qty - S1	1

Test Data	
Cool Ent Air DB Temp Actual	73.0 Deg F
Cool Ent Air WB Temp Actual	65.0 Deg F
Cool Leav Air DB Temp Actual	48.0 Deg F
Cool Leav Air WB Temp Actual	46.0 Deg F
Heat Ent Air Temp Actual	71.0 Deg F
Heat Leav Air Temp Actual	101.0 Deg F
Heating Air Delta T	30.0 Deg F

Electrical Test Data	
Motor Volts T1-T2	211 Volts
Motor Amps T1	0.30 Amps

Motor Data	
Motor HP	3/83 HP
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.42 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Air Test Data	
Design Airflow	629 CFM
Actual Airflow	629 CFM
Design OSA	0 CFM
Actual OSA	0 CFM
Design Rtn Airflow	629 CFM
Actual Rtn Airflow	629 CFM

Fan Coil

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: FC-01
AREA: A17

Tested By: Greg Rinehart
Date: 11/5/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	AC036BNHDCH
Unit Serial Number	0WLQPALTB00060Z
Filter Type	Pleated
Filter Qty - S1	2
Filter Size - S1	14x25x1

Motor Data	
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	3.5 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Test Data	
Cool Ent Air DB Temp Actual	70.0 Deg F
Cool Ent Air WB Temp Actual	61.0 Deg F
Cool Leav Air DB Temp Actual	50.0 Deg F
Cool Leav Air WB Temp Actual	47.0 Deg F
Heat Ent Air Temp Actual	70.0 Deg F
Heat Leav Air Temp Actual	103.0 Deg F
Heating Air Delta T	33.0 Deg F

Air Test Data	
Design Airflow	1165 CFM
Actual Airflow	1182 CFM
Design OSA	225 CFM
Actual OSA	208 CFM
Design Rtn Airflow	940 CFM
Actual Rtn Airflow	974 CFM

Electrical Test Data	
Motor Volts T1-T2	212 Volts
Motor Amps T1	2.40 Amps

FC-01 Supply Outlet Summary

System/Unit	Area Served	Outlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Outlet-01	A117	S7	5X48	1165	1182	101.5	1182	101.5	Evergreen
	Totals:	**-**	**-**	**1165**	**1182**	**101.5**	**1182**	**101.5**	**-**

FC-01 Return Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	A117	R2	5X48	940	1069	113.7	974	103.6	Evergreen
	Totals:	**-**	**-**	**940**	**1069**	**113.7**	**974**	**103.6**	**-**

Fan Coil

PROJECT: Pine Bluff 6th Avenue District
LOCATION: Pine Bluff, AR
PROJECT #: 72201

DATE: 11/22/2024
CONTACT: Elizabeth Amador

SYSTEM/UNIT: FC-02
AREA: A17

Tested By: Greg Rinehart
Date: 11/5/2024

Unit Data	
Unit Manufacturer	Samsung
Unit Model Number	AC024BNHDCH
Unit Serial Number	0WLPALTC00077A
Filter Type	Pleated
Filter Qty - S1	2
Filter Size - S1	14x20x1

Motor Data	
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	2.4 Amps
Motor Type	Direct Drive
Direct Drive Speed	High

Test Data	
Cool Ent Air DB Temp Actual	73.0 Deg F
Cool Ent Air WB Temp Actual	64.0 Deg F
Cool Leav Air DB Temp Actual	52.0 Deg F
Cool Leav Air WB Temp Actual	50.0 Deg F
Heat Ent Air Temp Actual	72.0 Deg F
Heat Leav Air Temp Actual	107.0 Deg F
Heating Air Delta T	35.0 Deg F

Air Test Data	
Design Airflow	750 CFM
Actual Airflow	743 CFM
Design OSA	75 CFM
Actual OSA	78 CFM
Design Rtn Airflow	675 CFM
Actual Rtn Airflow	665 CFM

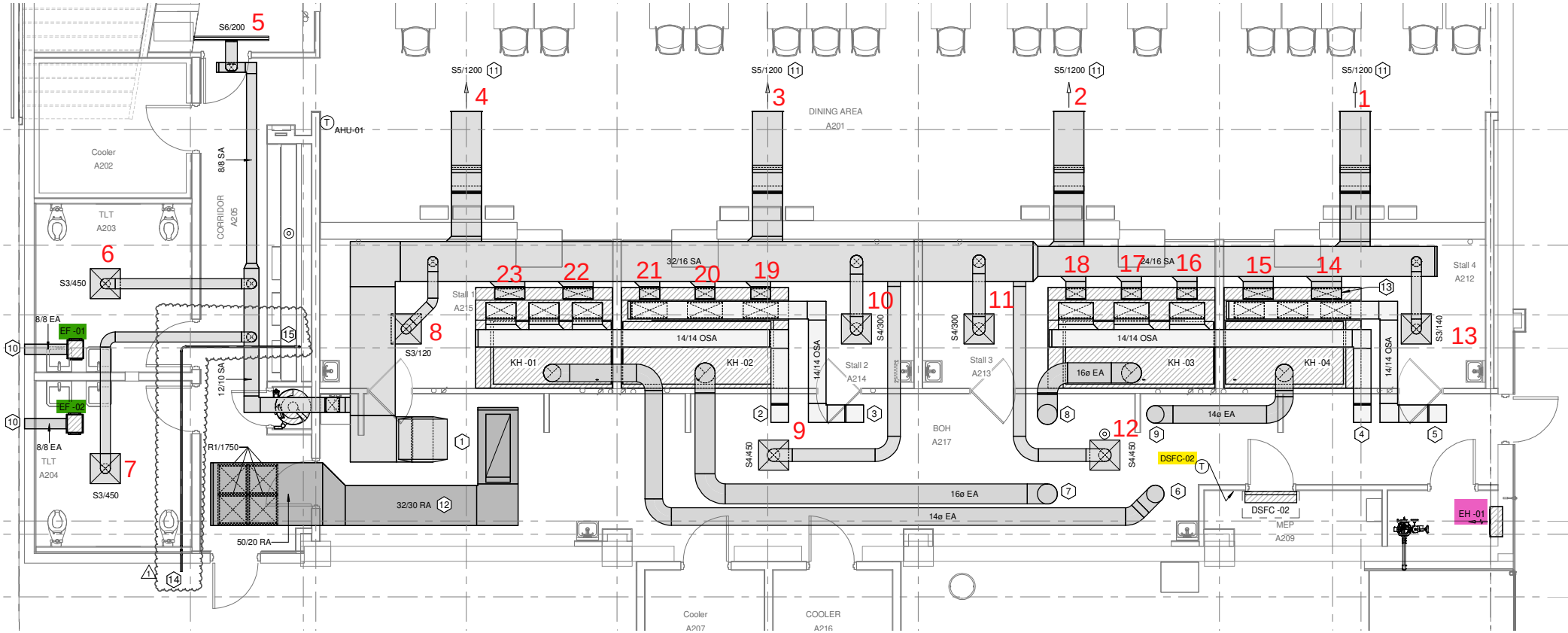
Electrical Test Data	
Motor Volts T1-T2	212 Volts
Motor Amps T1	1.60 Amps

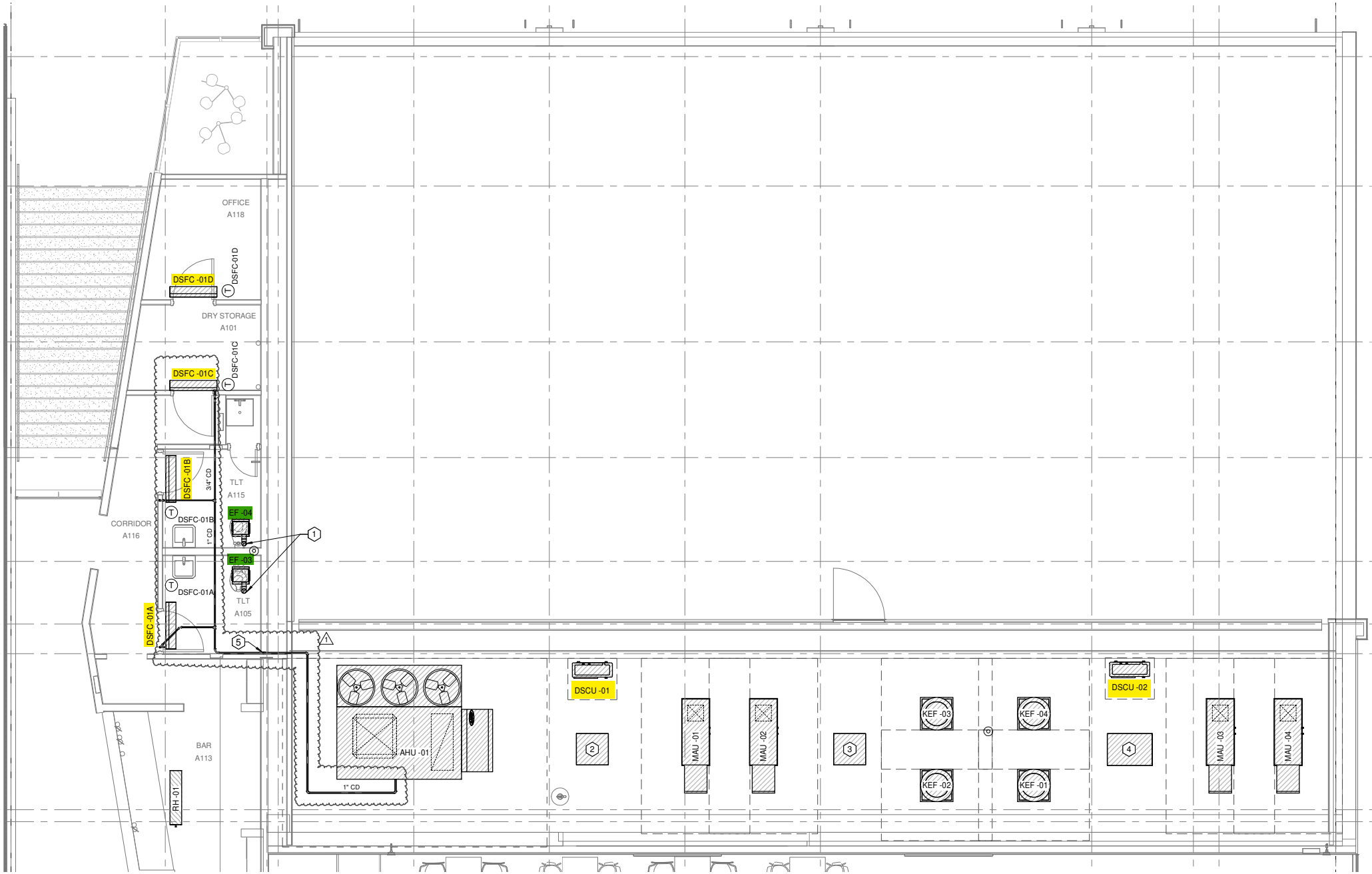
FC-02 Supply Outlet Summary

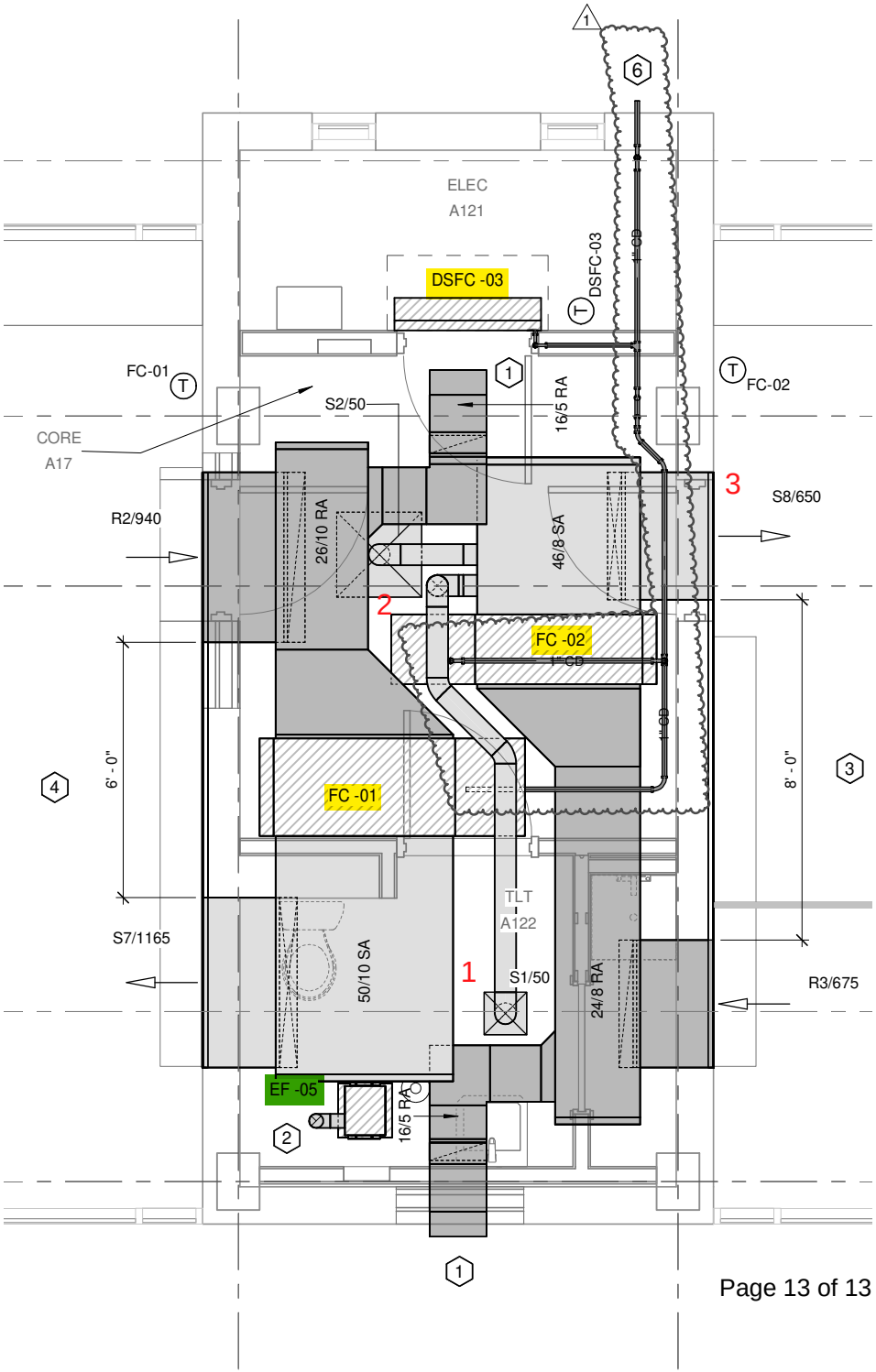
System/Unit	Area Served	Outlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Outlet-01	A122	S1	6	50	94	188.0	51	102.0	Evergreen
Outlet-02	A17	S	6	50	118	236.0	54	108.0	Evergreen
Outlet-03	A18	S8	4X36	650	513	78.9	638	98.2	Evergreen
	Totals:	**-**	**-**	**750**	**725**	**96.7**	**743**	**99.1**	**-**

FC-02 Return Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	A18	R3	4X36	675	622	92.1	665	98.5	Evergreen
	Totals:	**-**	**-**	**675**	**622**	**92.1**	**665**	**98.5**	**-**


S6/200
5
AHU-01
Cooler
A202
TLT
A203
CORRIDOR
A205
8/8 SA
6
S3/450
8/8 EA
EF -01
EF -02
8/8 EA
TLT
A204
7
S3/450
12/10 SA
R1/1750
50/20 RA
14
15
S5/1200
11
4
3
2
1
DINING AREA
A201
32/16 SA
24/16 SA
23
22
21
20
19
18
17
16
15
14
Stall 1
A215
8
S3/120
KH -01
KH -02
14/14 OSA
Stall 2
A214
10
S4/300
11
Stall 3
A213
KH -03
KH -04
16ø EA
14ø EA
Stall 4
A212
13
S3/140
9
S4/450
BOH
A217
12
DSFC-02
DSFC -02
MEP
A209
EH -01
32/30 RA
16ø EA
14ø EA
Cooler
A207
COOLER
A216


OFFICE
A118
DSFC -01D
DSFC-01D
DRY STORAGE
A101
DSFC -01C
DSFC-01C
DSFC -01B
3/4" CD
TLT
A115
CORRIDOR
A116
DSFC-01B
EF -04
1" CD
EF -03
DSFC-01A
TLT
A105
DSFC -01A
BAR
A113
RH -01
AHU -01
1" CD
DSCU -01
MAU -01
MAU -02
KEF -03
KEF -04
KEF -02
KEF -01
DSCU -02
MAU -03
MAU -04


ELEC
A121
DSFC -03
DSFC-03
1" CD
FC-01
FC-02
S2/50
16/5 RA
CORE
A17
R2/940
26/10 RA
46/8 SA
S8/650
3
2
FC -02
1" CD
1" CD
6' - 0"
8' - 0"
FC -01
TLT
A122
S7/1165
50/10 SA
1
S1/50
24/8 RA
R3/675
EF -05
16/5 RA