

**First Floor Mechanical Plan**  
3/16"=1'-0"

**H.M. YONGE & ASSOCIATES, INC.**  
CONSULTING ENGINEERS / EST. 1988  
51 EAST GREGORY STREET  
PENSACOLA, FLORIDA 32502  
PHONE: (850)434-2661  
CERTIFICATION OF AUTHORIZATION No. 5254  
MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093  
ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG. NO. 76376

NOT FOR CONSTRUCTION

Project  
**Servis 1st Bank**  
Tallahassee Branch

Tallahassee, FL  
Date:  
12-19-25  
Project No.  
2025

Sheet No.  
**M1.1**

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK AHU	AREA SERVED	NOMINAL TONNAGE	AHU DATA					AHU ELECTRICAL DATA			AHU COOLING CAPACITY @ ARI STANDARD CONDITIONS				AHU HEATING CAPACITY @ ARI STANDARD CONDITIONS				REMARKS										
			TOTAL CFM	OA CFM	ESP	MOTOR FLA	HEAT KW	VOLTS	Hz	PHASE	MCA	MOCIP	EDB °F	EWB °F	AMBIENT °F	TOTAL BTU/HR	SENSIBLE BTU/HR	EDB °F		AMBIENT °F	TOTAL BTU/HR								
AHU#1	1ST FLOOR: 105, 106, 107	2.5 TONS	850	90	0.5"	4.3	7.2	208	60	3	30	30	80	67	95	30,000	21,000	70	47	28,500	15.0	1 @ 10.4	0.77	208	60	1	16	25	①②③④
AHU#2	1ST FLOOR: 128, 129, 130, 104	2.5 TONS	960	100	0.5"	4.3	7.2	208	60	3	30	30	80	67	95	30,000	21,000	70	47	28,500	15.0	1 @ 10.4	0.77	208	60	1	16	25	①②③④
AHU#3	1ST FLOOR: 100, 102, 103, 122	5.0 TONS	1835	180	0.5"	6.8	10.8	208	60	3	45	45	80	67	95	60,000	42,000	70	47	57,000	15.0	1 @ 16.0	2.80	208	60	3	22.8	35	①②③④
AHU#4	1ST FLOOR: 118, 120, 121, 123, 124, 125	2.5 TONS	805	80	0.5"	4.3	7.2	208	60	3	30	30	80	67	95	30,000	21,000	70	47	28,500	15.0	1 @ 10.4	0.77	208	60	1	16	25	①②③④
AHU#5	1ST FLOOR: 111, 112, 113, 115, 116, 117	2.0 TONS	785	80	0.5"	2.8	7.2	208	60	3	28	30	80	67	95	24,000	16,800	70	47	22,800	15.0	1 @ 9.1	0.77	208	60	1	13	20	①②③④
AHU#6	2ND FLOOR: 216, 217, 218	2.0 TONS	720	80	0.5"	2.8	7.2	208	60	3	28	30	80	67	95	24,000	16,800	70	47	22,800	15.0	1 @ 9.1	0.77	208	60	1	13	20	①②③④
AHU#7	2ND FLOOR: 220, 221, 222, 223	2.5 TONS	860	90	0.5"	4.3	7.2	208	60	3	30	30	80	67	95	30,000	21,000	70	47	28,500	15.0	1 @ 10.4	0.77	208	60	1	16	25	①②③④
AHU#8	2ND FLOOR: 201, 215	4.0 TONS	1400	170	0.5"	6.8	10.8	208	60	3	45	45	80	67	95	48,000	33,600	70	47	45,600	15.0	1 @ 12.2	2.80	208	60	3	18.1	30	①②③④
AHU#9	2ND FLOOR: 200, 202, 204, 205, 206	3.0 TONS	1120	110	0.5"	4.3	10.8	208	60	3	42	45	80	67	95	36,000	25,200	70	47	34,200	15.0	1 @ 12.8	0.64	208	60	3	16.6	25	①②③④
AHU#10	2ND FLOOR: 209, 213, 214	3.0 TONS	1040	110	0.5"	4.3	10.8	208	60	3	42	45	80	67	95	36,000	25,200	70	47	34,200	15.0	1 @ 12.8	0.64	208	60	3	16.6	25	①②③④

- NOTES:
- THE HEAT PUMP SHALL OPERATE AS STAGE 1 HEATING. THE ELECTRIC STRIP HEAT SHALL OPERATE AS STAGE 2 HEATING AND DEFROST CYCLE. DURING STAGE 2 HEATING, THE COMPRESSOR AND THE ELECTRIC STRIP HEAT SHALL OPERATE SIMULTANEOUSLY.
  - PROVIDE SINGLE POINT CONNECTION FOR AIR HANDLING UNIT BLOWER AND STRIP HEAT.
  - BASIS OF DESIGN - TRANE 5TMR60 SPLIT SYSTEM AIR HANDLER 2-5 TON (208V, 60hz, 3ø).
  - BASIS OF DESIGN - TRANE 5TWA50 HEAT PUMP 3-5.0 TON (208V, 60hz, 3ø).
  - BASIS OF DESIGN - TRANE 5TWR50 HEAT PUMP 2-2.5 TON (208V, 60hz, 1ø).

EXHAUST FAN SCHEDULE

MARK	TOTAL CFM	TSP IN WC	MAX RPM	TYPE DRIVE	TYPE FAN	INTERLOCK WITH	MOTOR HP/WATTS	MAX SONES	ELECTRICAL DATA			FAN SERVICE	REMARKS
									VOLTS	Hz	PHASE		
EF#1	70	0.25	689	DIRECT	CEILING MOUNTED	LIGHT SWITCH	20 W	1.3	120	60	1	WOMEN 111	①②③④⑤
EF#2	70	0.25	689	DIRECT	CEILING MOUNTED	LIGHT SWITCH	20 W	1.3	120	60	1	MEN 113	①②③④⑤
EF#3	70	0.25	689	DIRECT	CEILING MOUNTED	LIGHT SWITCH	20 W	1.3	120	60	1	JANITOR	①②③④⑤
EF#4	70	0.25	689	DIRECT	CEILING MOUNTED	LIGHT SWITCH	20 W	1.3	120	60	1	WOMEN 214	①②③④⑤
EF#5	70	0.25	689	DIRECT	CEILING MOUNTED	LIGHT SWITCH	20 W	1.3	120	60	1	MEN 213	①②③④⑤
EF#6	70	0.25	689	DIRECT	CEILING MOUNTED	LIGHT SWITCH	20 W	1.3	120	60	1	JANITOR	①②③④⑤

- NOTES:
- PROVIDE WITH FAN SPEED CONTROLLER
  - PROVIDE WITH ALUMINUM GRILLE.
  - PROVIDE WITH ROUND TO RECTANGULAR TRANSITION.
  - PROVIDE WITH INTEGRAL DISCONNECT.
  - PROVIDE WITH THERMAL OVERLOAD.

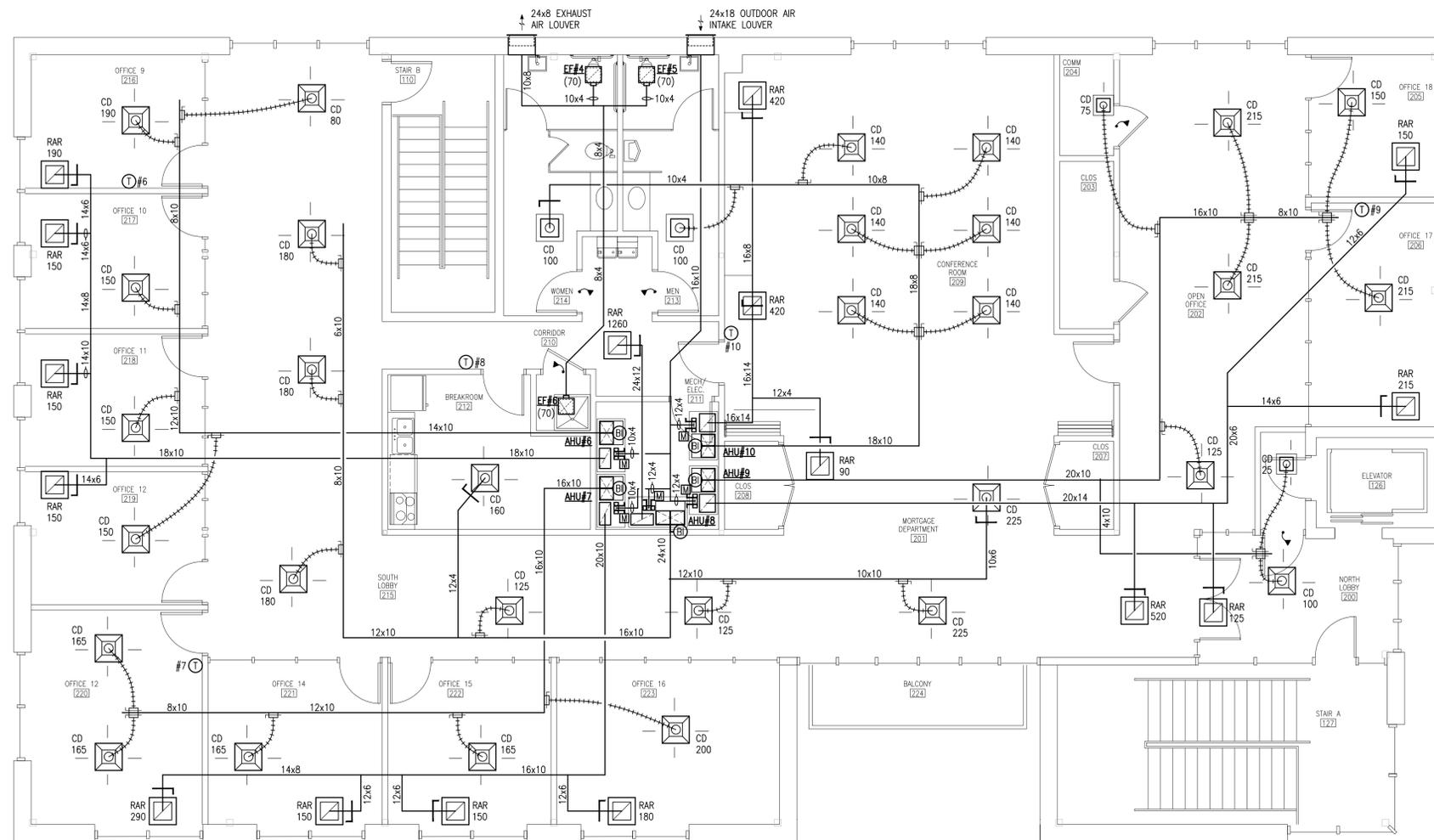
AIR DEVICE SCHEDULE

MARK	CFM	MAX. NC	AIR DEVICE SIZE	DUCT CONNECTION SIZE	REMARKS (TYPE)
0-75	0-75	25	6"x6"	6"	CD
76-150	76-150	25	9"x6"	7"	CD
151-200	151-200	25	9"x9"	8"	CD
201-225	201-225	25	9"x9"	9"	CD
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0-150	0-150	25	8"x8"	SEE PLANS	RAR
151-450	151-450	25	12"x12"	SEE PLANS	RAR
451-600	451-600	25	14"x14"	SEE PLANS	RAR
601-1000	601-1000	25	18"x18"	SEE PLANS	RAR
1001-1495	1001-1495	25	24"x24"	SEE PLANS	RAR

- NOTES:
- PROVIDE 24"x24" PANEL FOR ALL AIR DEVICES IN LAY-IN CEILING.
  - PROVIDE DUCT CONNECTION SIZE SHOWN UNLESS OTHERWISE NOTED ON PLANS.
  - AIR DEVICE SIZES SHOWN ON PLANS TAKE PRECEDENCE OVER THIS SCHEDULE.

MECHANICAL LEGEND

AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
ER	EXHAUST REGISTER
MVD	MANUAL VOLUME DAMPER
OA	OUTDOOR AIR
RA	RETURN AIR
RAR	RETURN AIR REGISTER
SA	SUPPLY AIR
	CEILING DIFFUSER WITH THROW INDICATION
	EXHAUST/RETURN AIR DEVICE
	FLEXIBLE DUCT
	DUCTWORK (DIMENSIONS: WIDTH X HEIGHT)
	FLEX DUCT TAKE-OFF WITH AIR-SCOOP, SPIN-IN TAP AND BALANCING DAMPER
	ELBOW WITH TURNING VANES
	BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER
	45° SHOE-FITTING TAKE-OFF
	DUCT CONNECTION OVER AIR DEVICE
	RETURN AIR DUCT IN SECTION
	SUPPLY AIR DUCT IN SECTION
	MOTORIZED DAMPER
	THERMOSTAT WITH EQUIPMENT # SERVED MOUNT 54" A.F.F. TO CENTER
	5/8" DOOR UNDERCUT
	MANUAL VOLUME DAMPER



Second Floor Mechanical Plan  
3/16"=1'-0"

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