

FAN COIL UNIT SCHEDULE											
TAG	LOCATION	AREA AND/OR ROOM SERVED	TYPE	AIRFLOW	TOTAL COOLING CAPACITY	SENSIBLE CAPACITY	HEATING CAPACITY	EAT DB	ELECTRICAL DATA	MCA	REMARKS
FCU-109	ELEC. 109	ELEC. 109	WALL MOUNTED	370	12000.0 Btu/h	9720.0 Btu/h	N/A	75 F	208/230, 1.00	POWER FROM OUTDOOR UNIT	
FCU-108	IT 108	IT 108	WALL MOUNTED	370	12000.0 Btu/h	9720.0 Btu/h	N/A	75 F	208/230, 1.00	POWER FROM OUTDOOR UNIT	
FCU-107	SEC. 107	SEC. 107	WALL MOUNTED	370	12000.0 Btu/h	9720.0 Btu/h	N/A	75 F	208/230, 1.00	POWER FROM OUTDOOR UNIT	
FCU-110	ELEV. MACH 110	ELEV. MACH 110	WALL MOUNTED	370	12000.0 Btu/h	9720.0 Btu/h	N/A	75 F	208/230, 1.00	POWER FROM OUTDOOR UNIT	

REMARKS:  
1. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATIONS

CONDENSING UNIT SCHEDULE										
TAG	LOCATION	AREA AND/OR ROOM SERVED	COOLING CAPACITY RANGE (BTU)	HEATING CAPACITY	COMPRESSOR TYPE	POWER	MCA	MOCP	REMARKS	
CU-109	ELEC. 109	ELEC. 109	12000	N/A	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1.00	13	15		
CU-108	IT 108	IT 108	12000	N/A	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1.00	13	15		
CU-107	SEC. 107	SEC. 107	12000	N/A	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1.00	13	15		
CU-110	ELEV. MACH 110	ELEV. MACH 110	12000	N/A	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1.00	13	15		

REMARKS:  
1. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATIONS

LOUVER SCHEDULE									
TAG	LOCATION	AREA AND/OR ROOM SERVED	SIZE	AIRFLOW	APD	MOUNTING	APPLICATION	TYPE	REMARKS
LV-106	STORAGE 106	STORAGE 106	16x5	50	0.02 in-wg	WALL	INTAKE	BRICK VENT	

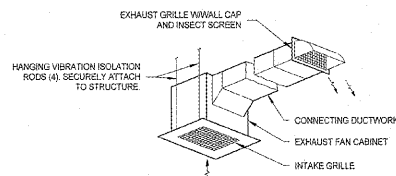
REMARKS:  
1. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATIONS

FAN SCHEDULE											
TAG	LOCATION	AIRFLOW	TSP	DRIVE	HP (W)	PHASE	VOLT	R.P.M.	SPEED CONTROL	SONES	REMARKS
EF-102	ELEV. 102	500	0.250 in-wg	DIRECT	1/10	1	115	1800	YES	8.0	1, 2, 3, 4
EF-106	STORAGE 106	50	0.200 in-wg	DIRECT	1/40	1	115	1800	YES	3.0	1, 2, 3, 4

REMARKS:  
1. CEILING TYPE WITH INTEGRAL GRILLE  
2. WITH OCCUPANCY SENSOR (PROVIDED BY ELECTRICAL CONTRACTOR, SEE ELECTRICAL DRAWINGS)  
3. WITH MOTOR RATED SWITCH  
4. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATIONS  
5. CENTRIFUGAL SIDE WALL  
6. WITH REVERSE ACTING THERMOSTAT SET AT 95 DEGREES

ELECTRIC UNIT HEATER SCHEDULE											
TAG	LOCATION	AREA AND/OR BLDG SERVED	TYPE	MIN. CAPACITY	AMP	PHASE	VOLT	HP	FAN MOTOR PHASE	VOLT	REMARKS
EUH-107.1	ELEV. 107	ELEV. 107	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	1, 2, 3, 4
EUH-107.2	ELEV. 107	ELEV. 107	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	1, 2, 3, 4
EUH-110	ELEV. MACH 110	ELEV. MACH 110	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	1, 2, 3, 4

REMARKS:  
1. 550 W ELEMENT  
2. WITH INTEGRAL THERMOSTAT  
3. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATION  
4. CONNECTION SPECIALTY HEATER



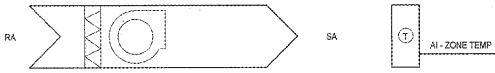
2 CEILING EXHAUST FAN DETAIL  
MH401 / N.T.S.

ZONE TEMPERATURE MONITORING:  
ZONE TEMPERATURE SENSOR MONITORS ROOM TEMPERATURE AND TRIGGERS AN ALARM FOR EITHER HIGH OR LOW ROOM TEMPERATURE.  
77 F (ADJ) COOLING SETPOINT  
ALARMS SHALL BE PROVIDED AS FOLLOWS:  
LOW ZONE TEMP: IF THE ZONE TEMPERATURE FALLS BELOW 55 DEGREES (ADJ).  
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE RISES ABOVE 80 DEGREES (ADJ).

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC
	AI	AD	BI	BO	BV	LOOP	SCHED	TREND	
ZONE TEMP	X							X	X
COOLING SET-POINT		X							X
ROOM TEMPERATURE	X								X
HIGH TEMPERATURE ALARM								X	X
TOTALS	2	0	0	0	0	0	0	1	3

REFER TO SPECIFICATION SECTION 23 09 23 FOR INTEGRATION REQUIREMENTS

FAN COIL UNIT (FCU):  
RUN CONDITIONS - CONTINUOUSLY RUN.  
THE UNIT SHALL RUN CONTINUOUSLY AND MAINTAIN 77 F (ADJ) COOLING SETPOINT.  
ALARMS SHALL BE PROVIDED AS FOLLOWS:  
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE POINT (ADJ).  
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE POINT (ADJ).  
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING SETPOINT AT THE SENSOR.  
FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.



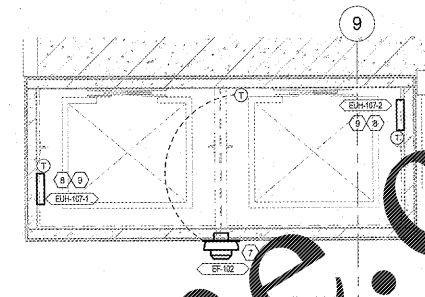
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC
	AI	AD	BI	BO	BV	LOOP	SCHED	TREND	
COOLING SET-POINT	X							X	X
ROOM TEMPERATURE	X								X
HIGH TEMPERATURE ALARM								X	X
TOTALS	2	0	0	0	0	0	0	1	3

REFER TO SPECIFICATION SECTION 23 09 23 FOR INTEGRATION REQUIREMENTS

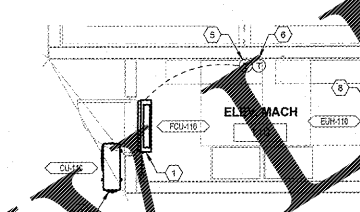
4 AC CONTROL SCHEMATIC  
MH401 / N.T.S.

KEY NOTE

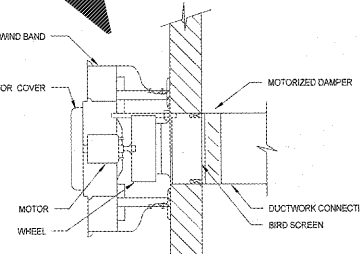
- INSTALL FAN COIL UNIT ABOVE DOOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS PROVIDING NECESSARY CLEARANCE. COORDINATE EXACT LOCATION WITH EQUIPMENT IN ROOM. ROUTE CONDENSATE DRAIN TO STAIRWELL WITH AIR GAP FITTING. SEE PP101 AND DETAIL. ROUTE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATION.
- SECURELY MOUNT CONDENSING UNIT ON PLATFORM WITH BOTTOM AT 9" AFF. PROVIDE NECESSARY CLEARANCE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE SIMPH41.
- PROVIDE 6" WALL CAP TERMINATION.
- SEE 20MH401 CEILING EXHAUST FAN DETAIL.
- MANUFACTURER PROVIDED THERMOSTAT. THIS THERMOSTAT PROVIDES ALL INFORMATION, CONTROL, AND/OR INPUTS TO CONTROL THE MINI-SPLIT SYSTEM.
- SAS ZONE SENSOR TO MONITOR ROOM TEMPERATURE AND TRIGGER AN ALARM FOR EITHER HIGH OR LOW ROOM TEMPERATURE. IF THE ROOM TEMPERATURE FALLS BELOW 55 DEG F (ADJ) AN ALARM IS ACTIVATED. IF THE ROOM TEMPERATURE RISES ABOVE 80 DEG F (ADJ) AN ALARM IS ACTIVATED. THE SAS SYSTEM SHALL MAINTAIN TRENDS FOR THE ROOM TEMPERATURE IN MAXIMUM 10 MINUTE INCREMENTS FOR AT LEAST THE PAST 30 DAYS. REFER TO SPECIFICATION SECTION 23 09 23 FOR INTEGRATION REQUIREMENTS.
- SEE WALL EXHAUST FAN FOR ELEVATOR SHAFT VENTILATION TO BE INSTALLED AT 18" ABOVE 4TH LEVEL FINISHED FLOOR ELEVATION PROVIDE WITH LINE VOLTAGE THERMOSTAT SET AT 90 F. COORDINATE FINAL LOCATION WITH SELECTED ELEVATOR MACHINERY.
- ELECTRIC UNIT HEATER SET AT 49 F.
- ELECTRIC UNIT HEATER TO BE INSTALLED AT 0'-10" ABOVE 4TH LEVEL FINISHED FLOOR ELEVATION. COORDINATE FINAL LOCATION WITH SELECTED ELEVATOR MACHINERY.



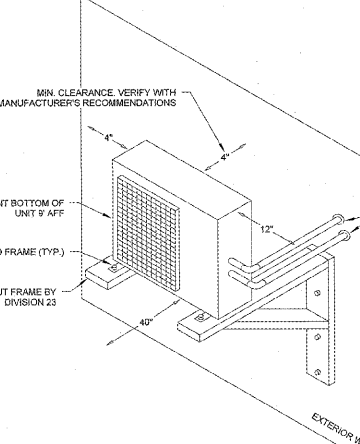
6 ELEVATOR SHAFT MECHANICAL PLAN  
MH401 1/4" = 1'-0"



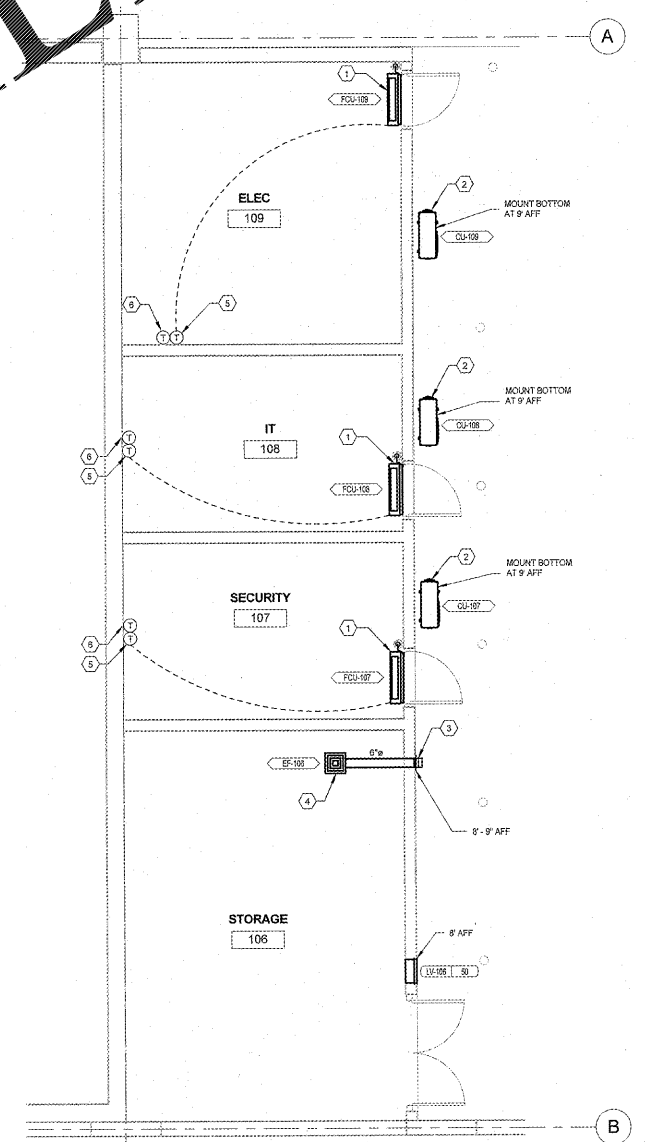
8 ELEVATOR MACHINE ROOM MECHANICAL PLAN  
MH401 1/4" = 1'-0"



7 CENTRIFUGAL WALL EXHAUST FAN  
MH401 / N.T.S.



5 CONDENSING UNIT INSTALLATION DETAIL  
MH401 / N.T.S.



1 ENLARGED MECHANICAL PLAN  
MH401 1/4" = 1'-0"

one and one half inches = one foot  
one inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

Order Plans @

 U.S. Department of Veterans Affairs MEMPHIS VAMC 1030 JEFFERSON AVE, MEMPHIS, TN 38104	 ARCHITECT/ENGINEERS: PROJECT LEAD Architect, Structural Engineer, Civil Engineer <b>GUIDON DESIGN</b> 805 N CAPITOL AVE SUITE 100 INDIANAPOLIS, IN 46204 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING	MEP Engineer APOGEE CONSULTING GROUP 1151 Kildaire Farm Rd. Cary, NC 27511 Tel: 919-858-7420	Functional Design CARL WALKER INC. 3211 Internet Blvd., Suite 220 Frisco, TX 75034 Tel: 469-777-5143	Drawing Title MECHANICAL PLAN, DETAILS, AND SCHEDULES		Project Title CONSTRUCT PARKING GARAGE ON WEST LOT		Project Number 15.1087 Building Number		OFFICE OF FACILITIES MANAGEMENT	
				Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER		Location MEMPHIS, TN		Drawing Number MH401		VA Project Number 614-319	
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