

Improvements for Infection Control

Mount Vernon Veterans Home

Mount Vernon, Missouri



Engineering | Energy | Innovation
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OWNER: STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: CJD ENGINEERING LLC

LOCATION:



PROJECT NUMBER: U2301-04

SITE NUMBER: 6905

FACILITY NUMBER: 8136905001

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SHEET NUMBER:

G-000

1 OF 7 SHEETS
MAY 30, 2025

TERMS AND ABBREVIATIONS:

A/C	AIR CONDITIONING	MIN	MINIMUM
A/E	ARCHITECT/ENGINEER	MISC	MISCELLANEOUS
ABV	ABOVE	MOD	MODIFIED
ACH	AIR CHANGES PER HOUR	MR	MOISTURE RESISTANT
ACT	ACOUSTICAL CEILING TILE	MTD	MOUNTED
ADJ	ADJUSTABLE	MTL	METAL
AFF	ABOVE FINISHED FLOOR	MW	MICROWAVE
AFG	ABOVE FINISHED GRADE	NEC	NATIONAL ELECTRICAL CODE
ALT	ALTERNATE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ALUM	ALUMINUM	NIC	NOT IN CONTRACT
APPROX	APPROXIMATE	NTS	NOT TO SCALE
ARCH	ARCHITECT	OA	OUTSIDE AIR
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	OC	ON CENTER
BLW	BELOW	OPNG	OPENING
BTWN	BETWEEN	ORD	OVERFLOW ROOF DRAIN
CAB	CABINET	PLAM	PLASTIC LAMINATE
CHW	CHILLED WATER	PL	PLATE
CIP	CAST-IN-PLACE	PLMB	PLUMBING
CL	CENTERLINE	PLYWD	PLYWOOD
CLG	CEILING	PT	PAINT
CMU	CONCRETE MASONRY UNIT	PVC	POLYVINYL CHLORIDE
CO	CLEANOUT	RA	RETURN AIR
CONC	CONCRETE	RAD	RADIUS
CONT	CONTINUOUS	RCP	REFLECTED CEILING PLAN
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	RD	ROOD DRAIN
CW	COLD WATER	REFR	REFRIGERATION
DBL	DOUBLE	REINF	REINFORCED
DEMO	DEMOLISH/DEMOLITION	REQD	REQUIRED
DET	DETAIL	REQT	REQUIREMENT
DIAG	DIAGONAL	RET	RETURN
DS	DOWNSPOUT	RL/RS	REFRIGERANT LIQUID/SUCTION
DW	DISHWASHER	RM	ROOM
DWG	DRAWING	RO	ROUGH OPENING
EA	EXHAUST AIR	RTD	RATED
EC	ELECTRICAL CONTRACTOR	SA	SUPPLY AIR
ELEC	ELECTRICAL	SF	SQUARE FEET
ENG	ENGINEER	SHT	SHEET
EO	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SK	SINK
ETC	ET CETERA	SQ	SQUARE
EX	EXISTING	SS	STAINLESS STEEL
EXT	EXTERIOR	STD	STANDARD
FAB	FABRICATE	STOR	STORAGE
FD	FLOOR DRAIN	STR	STAIR
FDC	FIRE DEPARTMENT CONNECTION	STRUCT	STRUCTURAL
FEC	FIRE EXTINGUISHER CABINET	SUB	SUBCONTRACTOR
FFCO	FINISH FLOOR CLEANOUT	SUP	SUPPLY
FGCO	FINISH GRADE CLEANOUT	SUSP	SUSPENDED
FFE	FINISH FLOOR ELEVATION	TAB	TEST, ADJUST, AND BALANCE
FIN	FINISH	T&G	TONGUE AND GROOVE
FLR	FLOOR	TELE	TELEPHONE
FS	FLOOR SINK	TOS	TOP OF STEEL
FTG	FOOTING	TYP	TYPICAL
FV	FIELD VERIFY	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	UR	URINAL
GALV	GALVANIZED	VB	VAPOR BARRIER
GC	GENERAL CONTRACTOR	VENT	VENTILATION
GD	GARBAGE DISPOSAL	VERT	VERTICAL
GWB	GYPSUM WALLBOARD	W/	WITH
HB	HOSE BIB	WC	WATER CLOSET
HORIZ	HORIZONTAL	WH	WATER HEATER
HT	HEIGHT	WWF	WELDED WIRE FABRIC
HW	HOT WATER	WWM	WELDED WIRE MESH
HWR	HOT WATER RECIRCULATION		
IBC	INTERNATIONAL BUILDING CODE		
IFC	INTERNATIONAL FIRE CODE		
IFGC	INTERNATIONAL FUEL GAS CODE		
IMC	INTERNATIONAL MECHANICAL CODE		
IPC	INTERNATIONAL PLUMBING CODE		
INSUL	INSULATION		
IRMM	INFECTION RISK MITIGATION MODE		
JB	JUNCTION BOX		
LAV	LAVATORY		
MATL	MATERIAL		
MAX	MAXIMUM		
MB	MOP BASIN		
MECH	MECHANICAL		
MEP	MECHANICAL/ELECTRICAL/PLUMBING		
MFR	MANUFACTURER		

SYMBOLS LEGEND:

PLAN NOTATIONS:	
<div><div><div><div>1</div><div>M1</div></div><div>CLASSROOM</div><div>111</div></div><div><div>4</div><div>KEY NOTE</div></div><div><div>FCU-XY</div><div>EQUIPMENT DESIGNATION</div></div><div><div><div>CONNECTION OF NEW TO EXISTING</div><div>(EX) EXISTING DESIGNATION</div><div>S.A. SUPPLY AIR</div><div>R.A. RETURN AIR</div><div>E.A. EXHAUST AIR</div></div></div></div>	
HVAC DUCTWORK:	
<div><div><div><div>88</div><div>FLEXIBLE DUCTWORK; SIZE</div></div><div><div><div>CEILING RETURN/EXHAUST GRILLE</div><div>CEILING SUPPLY DIFFUSER</div></div><div><div>8912x10</div><div>DUCTWORK; SIZE (DIAMETER OR WIDTH/HEIGHT)</div></div><div><div>EX12x10</div><div>EXISTING DUCTWORK</div></div><div><div><div>DUCT TRANSITION / BALANCE DAMPER</div><div>ST150</div><div>DIFFUSER TYPE, CFM</div></div><div><div><div>FIN TUBE BASEBOARD HEAT</div><div>FAN</div></div><div><div><div>FAN COIL UNIT</div><div>FCU-XY</div></div></div></div></div></div></div></div>	
HVAC PIPING:	
<div><div><div><div>HWS</div><div>HEATING WATER SUPPLY PIPING</div></div><div><div>HWR</div><div>HEATING WATER RETURN PIPING</div></div><div><div>CWS</div><div>CHILLED WATER SUPPLY PIPING</div></div><div><div>CWR</div><div>CHILLED WATER RETURN PIPING</div></div><div><div>D</div><div>CONDENSATE DRAIN</div></div></div></div>	
TEMPERATURE CONTROLS:	
<div><div><div><div>7</div><div>FCU-001</div><div>TEMPERATURE SENSOR AND EQUIPMENT SERVED</div></div><div><div><div>CO</div><div>CO</div><div>CARBON MONOXIDE SENSOR - WALL/CEILING MOUNTED</div></div><div><div><div>CO2</div><div>CO2</div><div>CARBON DIOXIDE SENSOR - WALL/CEILING MOUNTED</div></div><div><div><div>H</div><div>H</div><div>HUMIDITY SENSOR - WALL/CEILING MOUNTED</div></div><div><div><div>P</div><div>P</div><div>PRESSURE SENSOR - WALL/CEILING MOUNTED</div></div></div></div></div></div></div></div>	
NOTE: INSTALL WALL MOUNTED THERMOSTATS AND SENSORS AT 54" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE	
<div><div><div><div>AIP</div><div>START/STOP</div><div>ANALOG INPUT; FUNCTION</div></div><div><div>ADP</div><div>VFD SPEED</div><div>ANALOG OUTPUT; FUNCTION</div></div><div><div>BIP</div><div>FAN STATUS</div><div>BINARY INPUT; FUNCTION</div></div><div><div>BOP</div><div>CLG STG 1</div><div>BINARY OUTPUT; FUNCTION</div></div></div></div>	
<div><div><div><div><div>MOTORIZED CONTROL DAMPER</div></div><div><div>CONTROL VALVE</div></div><div><div>TEMPERATURE SENSOR</div></div><div><div>HUMIDITY SENSOR</div></div><div><div>DIFFERENTIAL PRESSURE SENSOR</div></div><div><div>VFD</div><div>VARIABLE FREQUENCY DRIVE</div></div></div></div></div>	
PLUMBING PIPING:	
<div><div><div><div>WASTE PIPING BELOW SLAB</div><div>WASTE PIPING ABOVE SLAB</div><div>PLUMBING VENT PIPING</div><div>DOMESTIC COLD WATER PIPING</div><div>DOMESTIC HOT WATER PIPING</div><div>DOMESTIC HOT WATER RECIRC PIPING</div></div></div></div>	
NOTE: NOT ALL SYMBOLS ARE USED IN THESE CONSTRUCTION DOCUMENTS AND ALL SYMBOLS USED ON CONSTRUCTION DRAWINGS MAY NOT BE INDICATED ON THIS SYMBOLS LEGEND.	

BUILDING CODES:

2010 AMERICANS WITH DISABILITIES ACT (ADA)
2009 ICC/ANSI A117.1 ACCESSIBILITY CODE
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL FIRE CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2011 NATIONAL ELECTRICAL CODE

GENERAL NOTES:

1.

THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS.
2.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3.

ALL WORK SHALL COMPLY WITH THE LATEST INTERNATIONAL BUILDING CODES, NATIONAL ELECTRICAL CODE, AND ALL AMENDMENTS PER LOCAL AUTHORITY HAVING JURISDICTION.
4.

PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY DIMENSIONS.
5.

EQUIPMENT, CONDUIT, PIPING, AND DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, LIGHT FIXTURES, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
6.

COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
7.

MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
8.

CONTRACTOR SHALL FIELD VERIFY EXTENT OF EXISTING CONSTRUCTION.
8.

PROVIDE ALL ACCESSORIES, COMPONENTS, ETC. REQUIRED FOR COMPLETE INSTALLATION OF SPECIFIED EQUIPMENT.
9.

PROVIDE STRUTS, HANGERS, AND ACCESSORIES AS REQUIRED FOR SUPPORT OF CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC.
10.

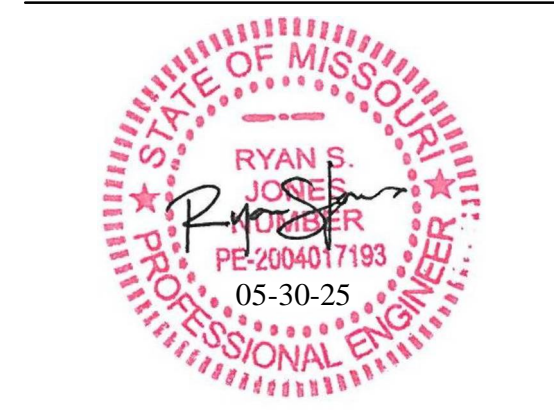
DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, FIXTURES, WIRING, CONDUIT, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS.
11.

THE CONTRACTOR SHALL INCLUDE IN BID THE COSTS TO CUT, PATCH AND REPAIR EXISTING WALLS, FLOORS AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL EQUIPMENT, CONDUIT, ETC.
12.

SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY.
13.

CONTRACTOR SHALL SUBMIT ALL FIRE-STOPPING MATERIALS FOR REVIEW AND APPROVAL. PROVIDE COMPLETE WITH ALL LITERATURE AND SPECIFICATION INFORMATION TO CLEARLY SHOW COMPLIANCE WITH BUILDING CODES FOR INTENDED APPLICATION. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



RYAN S. JONES – ENGINEER
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FACILITY # 8136905001

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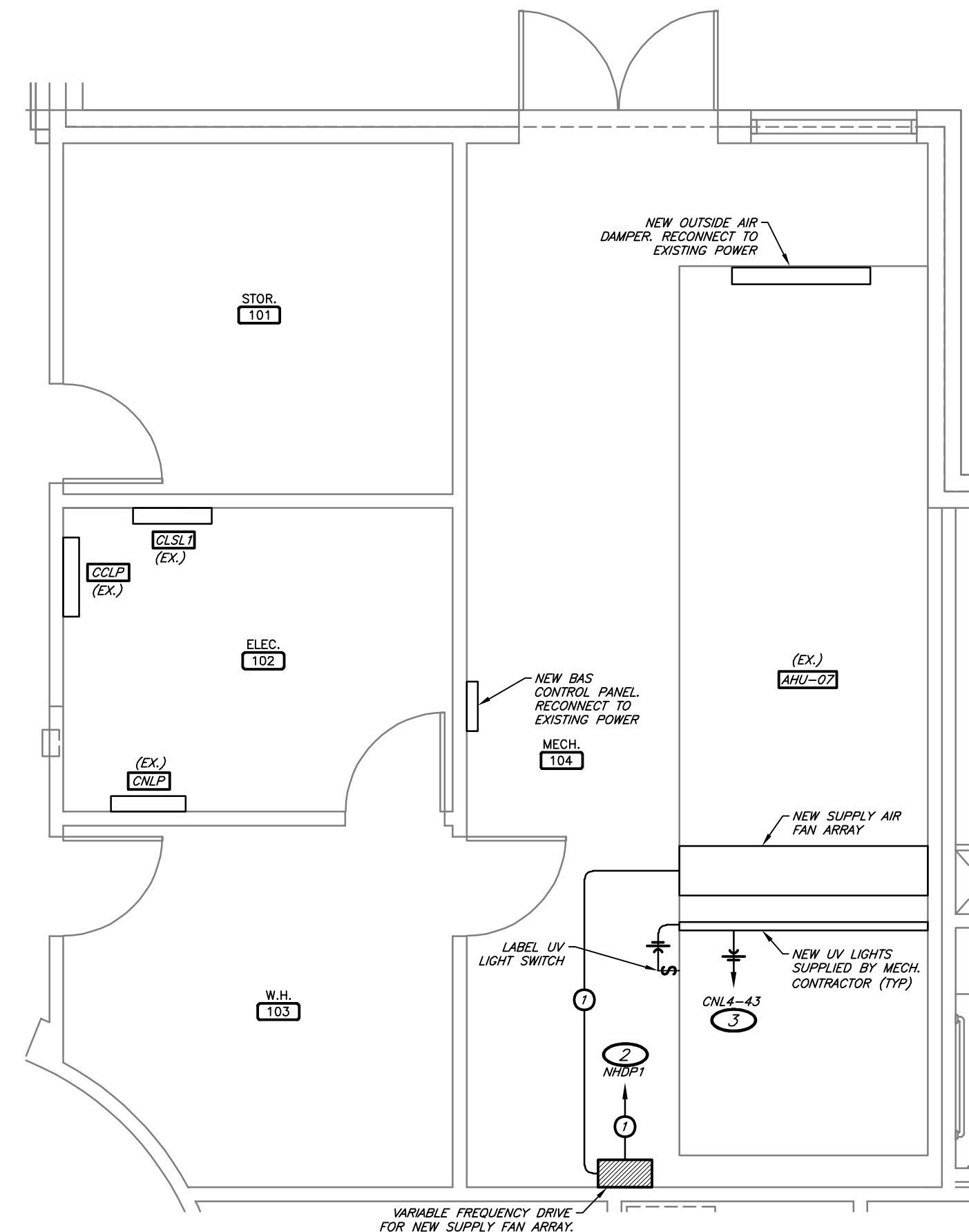
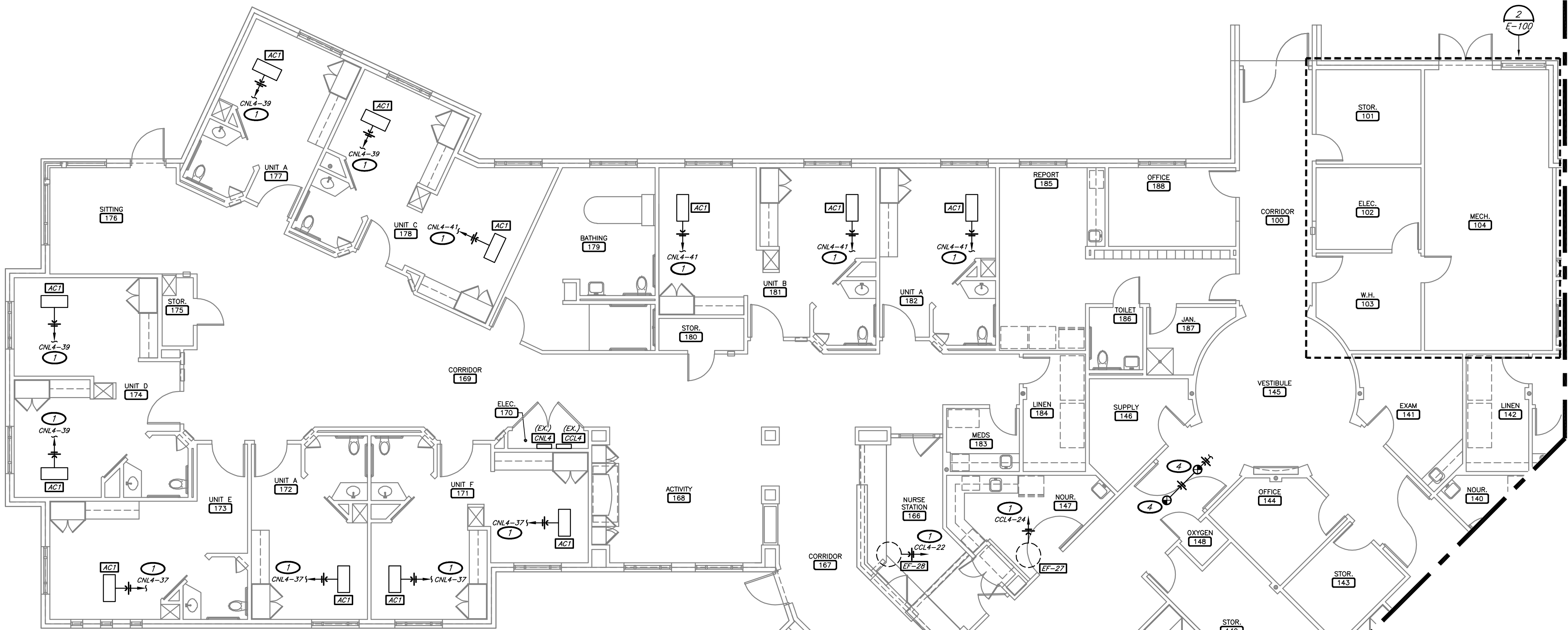
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DRAWN BY: CJD
CHECKED BY: RSJ
DESIGNED BY: CJD

SHEET TITLE:

ABBREVIATIONS,
NOTES,
& SYMBOLS

SHEET NUMBER:

G-001
2 OF 7 SHEETS
MAY 30, 2025



1 ELECTRICAL PLAN
1/8" = 1'-0"
NORTH

2 ENLARGED ELECTRICAL PLAN
1/4" = 1'-0"
NORTH

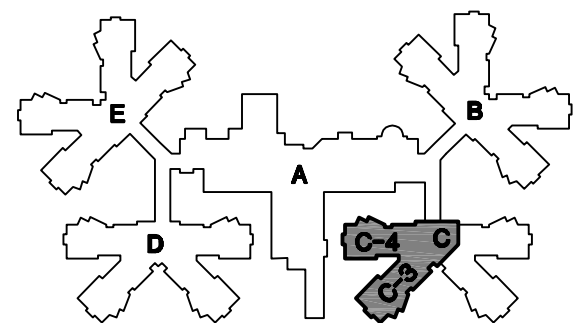
KEYNOTES:

- CIRCUIT THROUGH EXISTING PANELBOARD AS NOTED ON PLAN. PROVIDE RELAY AND CONTROL WIRING TO CONTROL UNIT THROUGH BUILDING AUTOMATION SYSTEM.
- CIRCUIT TO EXISTING PANELBOARD AS NOTED. REMOVE EXISTING 80-AMP, 3-POLE CIRCUIT BREAKER AND REPLACE WITH 40-AMP, 3-POLE CIRCUIT BREAKER.
- CIRCUIT TO EXISTING SPARE 20-AMP, SINGLE-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW EXIT SIGN TO MATCH EXISTING. WIRE TO EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT SERVING CORRIDOR.

CONDUIT & CONDUCTOR SCHEDULE:

- (4) #8 AND (1) #10 GROUND IN 0.75" CONDUIT.

KEY PLAN:



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DRAWN BY: QCI
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DESIGNED BY: QCI

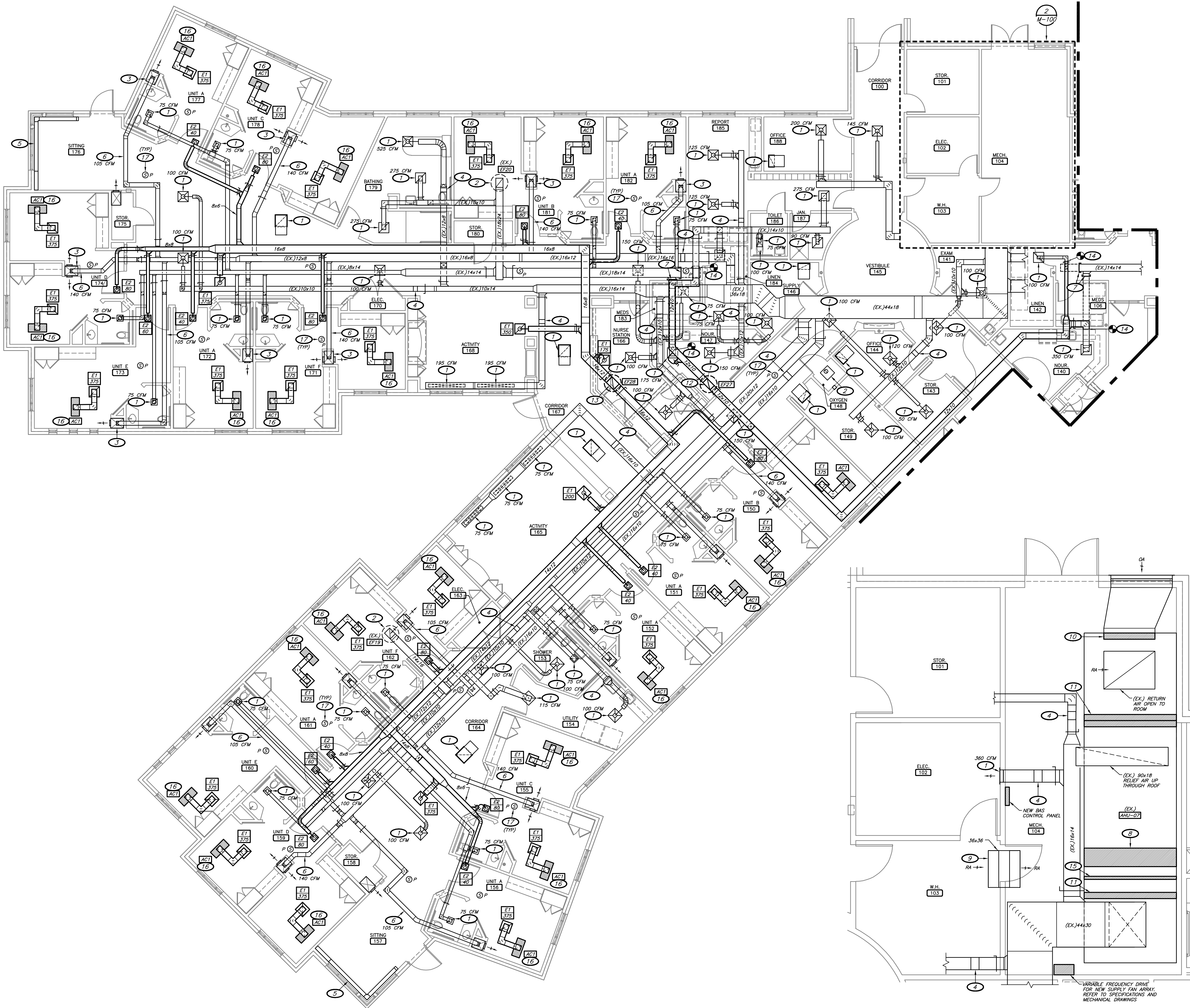
SHEET TITLE:

ELECTRICAL
PLAN

SHEET NUMBER:

E-100

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MAY 30, 2025



1 HVAC PLAN
1/8" = 1'-0"
NORTH

2 ENLARGED HVAC PLAN
1/4" = 1'-0"
NORTH

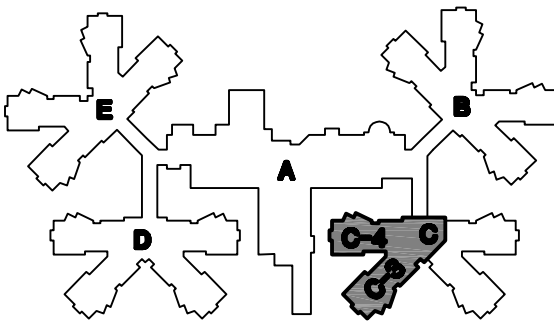
KEYNOTES:

- EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO AIRFLOW SHOWN ON PLAN.
- EXISTING EXHAUST FAN SHALL REMAIN.
- EXISTING FAN COIL UNIT SHALL REMAIN.
- EXISTING REHEAT COIL SHALL REMAIN.
- EXISTING FIN TUBE RADIATOR SHALL REMAIN.
- EXISTING BRANCH DUCT SHALL REMAIN. BALANCE TO AIRFLOW SHOWN ON PLAN.
- REMOVE EXISTING EXHAUST DUCT AND CAP END WHERE INDICATED. FIELD VERIFY EXACT SIZE, LOCATION AND REQUIREMENTS.
- EXISTING AIR HANDLING UNIT SHALL REMAIN. REMOVE EXISTING PLUS FAN AND REPLACE WITH NEW FAN ARRAY AS INDICATED ON THE AIR HANDLING UNIT SCHEDULE.
- EXISTING TRANSFER BOOT SHALL REMAIN.
- PROVIDE NEW OUTSIDE AIR DAMPER AS INDICATED ON THE AIR HANDLING UNIT SCHEDULE. FIELD VERIFY EXACT SIZE AND REQUIREMENTS.
- PROVIDE NEW PRE-FILTERS AND FINAL FILTERS FOR EXISTING AIR HANDLING UNIT. FIELD VERIFY EXACT SIZES AND REQUIREMENTS.
- 20"x12" EXHAUST AIR DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN OPENING SIZE AND PROVIDE FLEXIBLE CONNECTION.
- 20"x16" EXHAUST AIR DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN OPENING SIZE AND PROVIDE FLEXIBLE CONNECTION.
- CONNECT NEW EXHAUST AIR DUCT TO EXISTING EXHAUST DUCT.
- PROVIDE NEW UV-C LIGHTS IN FAN SECTION OF EXISTING AIR HANDLING UNIT AS INDICATED ON THE AIR HANDLING UNIT SCHEDULE. FIELD VERIFY EXACT SIZE AND REQUIREMENTS.
- INSTALL NEW AIR CLEANER AND ASSOCIATED EXHAUST GRILLE IN EXISTING GYPSUM BOARD CEILING NEAR PATIENT BED LOCATION. CONNECTING DUCT SHALL BE 12"x8" OR EQUIVALENT SIZE. VERIFY EXACT PLACEMENT IN CEILING WITH OWNER/ENGINEER AND COORDINATE WITH EXISTING LIGHTING, STRUCTURE, CEILING FRAMING, ETC. REPAIR CEILING AS REQUIRED AND MATCH SURROUNDING FINISH.
- SPACE PRESSURE SENSOR. COORDINATE EXACT LOCATION WITH ENGINEER AND WITH EXISTING LIGHTING, AIR DEVICES, STRUCTURE, CEILING FRAMING, ETC.

SPECIAL NOTES:

- TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED FOR ALL MECHANICAL EQUIPMENT WITHIN AREAS C-3 AND C-4, AND FOR THE ENTIRE FACILITY. EQUIPMENT IN AREAS C-3 AND C-4 SHALL BE BALANCED TO AIR AND WATER FLOWS INDICATED ON THESE CONSTRUCTION DOCUMENTS. ALL OTHER EQUIPMENT SHALL BE BALANCED TO MOST RECENT AIR AND WATER FLOWS INDICATED ON EXISTING DRAWINGS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER/OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE ENTIRE FACILITY IS TO BE RETRO-COMMISSIONED UNDER A SEPARATE CONTRACT. MECHANICAL EQUIPMENT AND CONTROLS FOR AREAS C-3 AND C-4 SHALL BE SEPARATELY COMMISSIONED AS PART OF THIS INFECTION CONTROL PROJECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE ENTIRE FACILITY IS TO RECEIVE A NEW BUILDING AUTOMATION SYSTEM (BAS) UNDER A SEPARATE CONTRACT. THE BAS REPLACEMENT PROJECT WILL LIKELY BE CONCURRENT WITH THIS INFECTION CONTROL PROJECT. CONTRACTOR(S) FOR THIS PROJECT SHALL BE RESPONSIBLE FOR ALL BAS INSTALLATION AND COMPONENTS WITHIN AND ASSOCIATED WITH AREAS C-3 AND C-4, AND SHALL COORDINATE THE WORK, INCLUDING TAB AND COMMISSIONING, WITH BAS REPLACEMENT PROJECT CONTRACTOR(S).

KEY PLAN:



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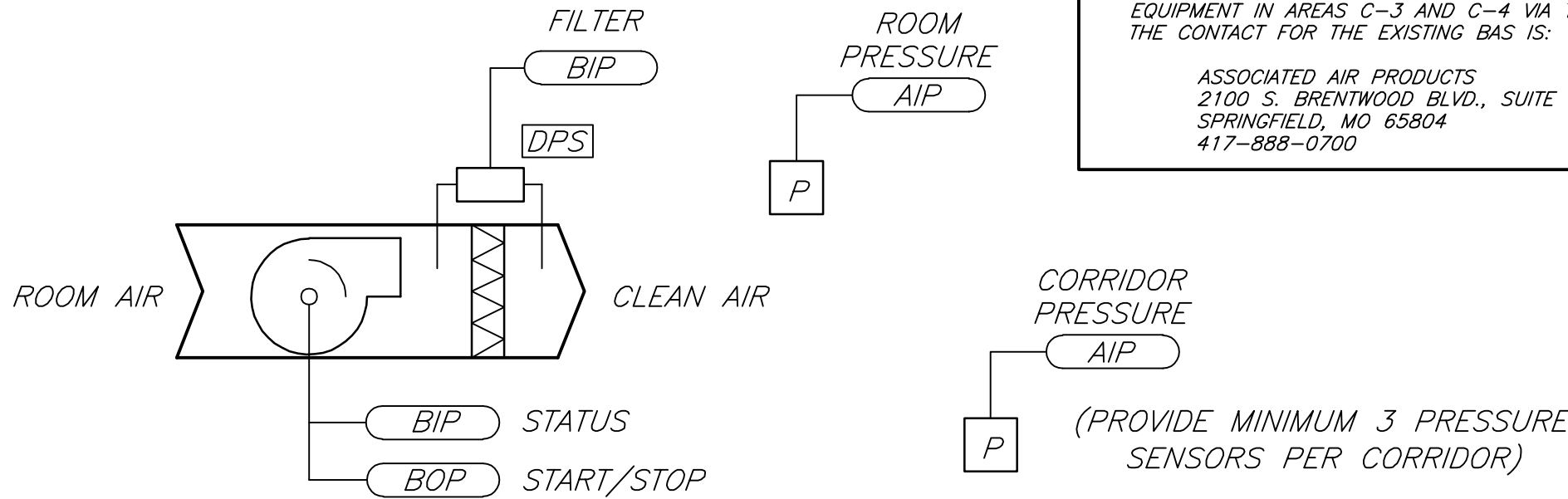
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HVAC PLAN

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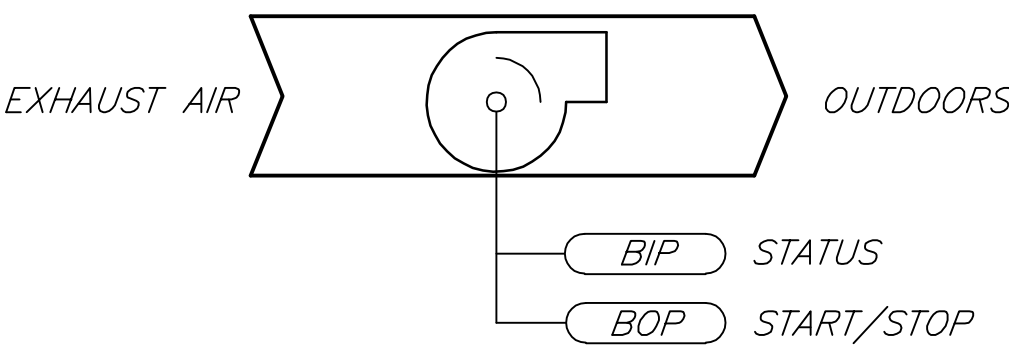
M-100
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MAY 30, 2025

TEMPERATURE CONTROLS POINTS LIST		
AIR CLEANER		
TYPE	NAME	DESCRIPTION
BO	AC-C	AIR CLEANER CONTROL
BI	AC-S	AIR CLEANER STATUS
AI	FILT-DP	FILTER DIFFERENTIAL PRESSURE
AI	RM-P	ROOM PRESSURE
AI	CORR-P	CORRIDOR PRESSURE

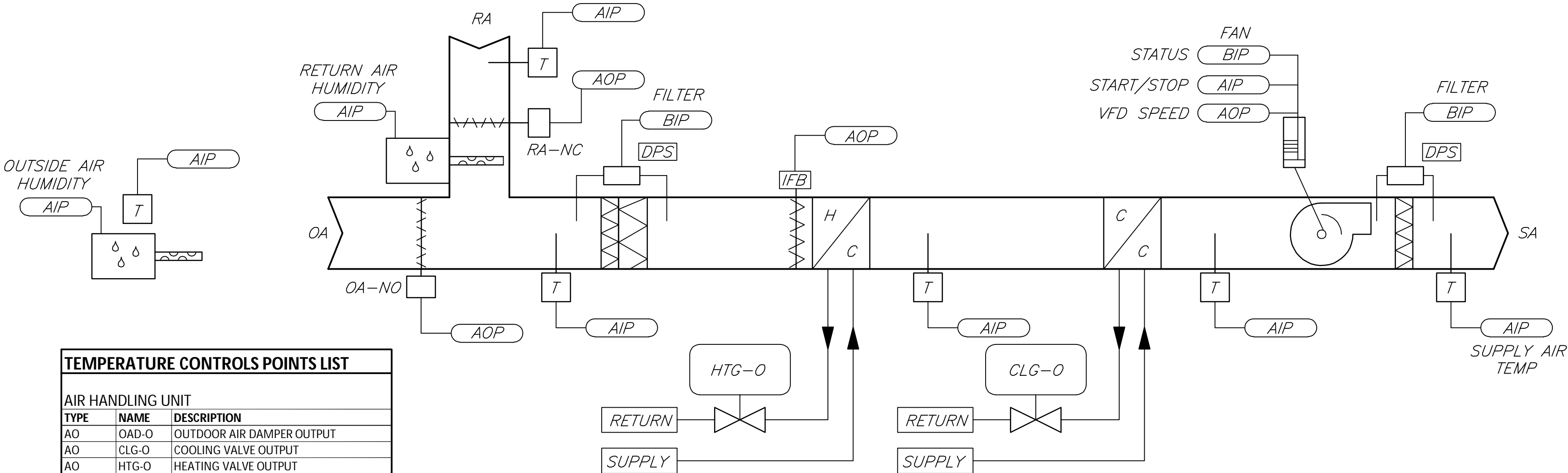


TYPICAL AIR CLEANER CONTROL SCHEMATIC

TEMPERATURE CONTROLS POINTS LIST		
EXHAUST FAN		
TYPE	NAME	DESCRIPTION
BO	EF-C	EXHAUST FAN CONTROL
BI	EF-S	EXHAUST FAN STATUS



TYPICAL EXHAUST FAN CONTROL SCHEMATIC



TEMPERATURE CONTROLS POINTS LIST		
AIR HANDLING UNIT		
TYPE	NAME	DESCRIPTION
AO	OAD-O	OUTDOOR AIR DAMPER OUTPUT
AO	CLG-O	COOLING VALVE OUTPUT
AO	HTG-O	HEATING VALVE OUTPUT
AI	DA-T	DISCHARGE AIR TEMPERATURE
BI	LT-A	LOW TEMPERATURE ALARM
AO	IFB-O	IFB DAMPER OUTPUT
AO	OAD-O	OUTDOOR AIR DAMPER OUTPUT
AI	FILT-DP	FILTER DIFFERENTIAL PRESSURE
AO	RAD-O	RETURN AIR DAMPER OUTPUT
AI	RA-H	RETURN AIR HUMIDITY
AI	RA-T	RETURN AIR TEMPERATURE
AI	OA-H	OUTDOOR AIR HUMIDITY
AI	OA-T	OUTDOOR AIR TEMPERATURE
BO	SF-C	SUPPLY FAN COMMAND
BI	SF-S	SUPPLY FAN STATUS
AO	VFD-SP	VFD SPEED

AHU-07 CONTROL SCHEMATIC

SPECIAL NOTES:

1. THE ENTIRE FACILITY IS TO RECEIVE A NEW BUILDING AUTOMATION SYSTEM (BAS) UNDER A SEPARATE CONTRACT. THE BAS REPLACEMENT PROJECT WILL LIKELY BE CONCURRENT WITH THIS INFECTION CONTROL PROJECT. CONTRACTOR(S) FOR THIS PROJECT SHALL BE RESPONSIBLE FOR ALL BAS INSTALLATION AND COMPONENTS WITHIN AND ASSOCIATED WITH AREAS C-3 AND C-4, AND SHALL COORDINATE THE WORK, INCLUDING TAB AND COMMISSIONING, WITH BAS REPLACEMENT PROJECT CONTRACTOR(S).

2. IF BAS REPLACEMENT PROJECT IS NOT COMPLETED PRIOR TO START-UP AND COMMISSIONING OF THIS INFECTION CONTROL PROJECT, THE CONTRACTOR(S) FOR THIS PROJECT SHALL BE RESPONSIBLE FOR TEMPORARILY CONTROLLING THE EQUIPMENT IN AREAS C-3 AND C-4 VIA THE EXISTING BAS. THE CONTACT FOR THE EXISTING BAS IS:

ASSOCIATED AIR PRODUCTS
2100 S. BRENTWOOD BLVD., SUITE E
SPRINGFIELD, MO 65804
417-888-0700

SEQUENCES OF OPERATION:

AHU-7 CONTROL SEQUENCE

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, OCCUPIED / UNOCCUPIED / INFECTION RISK MITIGATION AND HEAT / COOL MODES. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED MODE:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AT SCHEDULED OCCUPIED AIRFLOW AND THE OUTSIDE AIR DAMPER SHALL OPEN FULLY TO MAINTAIN OCCUPIED VENTILATION REQUIREMENTS. THE RETURN AIR DAMPER SHALL CLOSE FULLY AND THE VENTILATION RELIEF DAMPER SHALL MODULATE TO MAINTAIN BUILDING PRESSURE. THE UNIT CHILLED AND HOT WATER COILS SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

UNOCCUPIED MODE:
WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) OR ABOVE THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL RUN CONTINUOUSLY AT SCHEDULED UNOCCUPIED AIRFLOW AND THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. THE UNIT CHILLED AND HOT WATER COIL SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) OR DROPS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F (ADJ.) PLUS OR MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE UNIT CHILLED AND HOT WATER COILS SHALL CLOSE.

INFECTION RISK MITIGATION MODE:
DURING IRMM PERIODS, THE AIR HANDLER SHALL BE SET TO OCCUPIED MODE.

OCCUPIED BYPASS:
THE BAS SHALL MONITOR THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE SPACE TEMPERATURE SENSORS. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE OCCUPIED SETPOINTS (ADJ.) FOR A SPECIFIED PERIOD OF TIME (ADJ.).

SUPPLY AIR TEMPERATURE RESET CONTROL:
THE DISCHARGE AIR TEMPERATURE SETPOINT, 52.0 DEG. F - 65.0 DEG. F (ADJ.) SHALL BE RESET BASED ON EITHER THE OUTSIDE AIR TEMPERATURE OR SPACE AVERAGE TEMPERATURE (ADJ.). THE MINIMUM DISCHARGE AIR SETPOINT SHALL BE SET AT 52.0 DEG. F (ADJ.). IF THE DISCHARGE AIR TEMPERATURE FALLS MORE THAN 2 DEG. F (ADJ.) BELOW THE MINIMUM DISCHARGE AIR SETPOINT, A LOW TEMPERATURE ALARM SHALL BE ANNUNCIATED, AND THE UNIT SHALL SHUT DOWN. IF THE DISCHARGE TEMPERATURE RISES MORE THAN 2 DEG. F (ADJ.) ABOVE THE MAXIMUM DISCHARGE AIR SETPOINT, A HIGH TEMPERATURE ALARM SHALL BE ANNUNCIATED.

OUTDOOR AIR TEMPERATURE RESET:
THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE ADJUSTED BASED ON THE OUTSIDE AIR TEMPERATURE.

SPACE TEMPERATURE RESET:
THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE ADJUSTED BASED ON THE TEMPERATURE OF THE CRITICAL SPACE(S).

ECONOMIZER:
THE SUPPLY AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE CHILLED WATER COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN OCCUPIED MODE, THE CHILLED AND HOT WATER COILS SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN UNOCCUPIED MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. IN UNOCCUPIED MODE, THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE MIXED AIR TEMPERATURE FALLS BELOW THE LOW LIMIT TEMPERATURE SETTING.

Professional Seal

RYAN S. JONES - ENGINEER
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Professional Seal

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Specialty: Civil Engineering
Specialty: Chemical Engineering
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

IMPROVEMENTS FOR
INFECTION CONTROL

MOUNT VERNON
VETERANS HOME

1600 SOUTH HICKORY
MOUNT VERNON, MO

PROJECT # U2301-04
SITE # 6905
FACILITY # 8136905001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 05/30/2025

CAD DWG FILE: M-600.DWG
DRAWN BY: QJC
CHECKED BY: RSJ
DESIGNED BY: QJC

SHEET TITLE:

MECHANICAL
SCHEDULES

SHEET NUMBER:

M-600
7 OF 7 SHEETS
MAY 30, 2025

AIR HANDLING UNIT SCHEDULE																						
MARK	MANUFACTURER	SA CFM	OA CFM	EXISTING CHILLED WATER COIL					EXISTING HOT WATER COIL					NEW SUPPLY FAN					VOLTAGE/ PHASE	MCA	MOCP	NOTES
				EAT (DB/HB)	EAT (DB/HB)	EWT / LMT	CFM	WPD (FT HD)	FPI	LAT (DB)	EWT / LMT	CFM	WPD (FT HD)	FPI	ESP (IN. W.C.)	TSP (IN. W.C.)	HP					
AHU-07	ENERGY LABS INC. (EXISTING)	11,255	11,255	95.0 / 74.3	52.0 / 50.8	42.0 / 54.0	144.2	15.0	8	65	180.0 / 150.0	34.7	10.0	10	4.5"	6.75"	(4) 4.5	480/3	34.0	40	1,2,3,4,5,6,7	
NOTES: 1. REBALANCE AIRFLOW TO SCHEDULED FLOW RATES. 2. REBALANCE WATER FLOW THROUGH COILS TO SCHEDULED FLOW RATES AND FIELD VERIFY WATER TEMPERATURES. 3. REPLACE ALL EXISTING FILTERS WITH NEW. 4. REPLACE EXISTING SUPPLY AIR FAN WITH NEW 2x2 ECM FAN ARRAY WITH VARIABLE SPEED CONTROL EQUIVALENT TO NORTEK FANWALL MODEL HPF-A100 GEN III WITH ISOLATORS. PROVIDE ASSOCIATED BACKDRAFT DAMPERS. 5. REPLACE EXISTING VFD WITH NEW EQUIVALENT TO YASKAWA CIMR-2U4A002-1FAA. REFER TO SPECIFICATIONS AND COORDINATE WITH ELECTRICAL CONTRACTOR. 6. REPLACE EXISTING OUTSIDE AIR DAMPER/ACTUATOR WITH NEW SINGLE SECTION DAMPER AS NOTED. 7. PROVIDE NEW GERMICIDAL UV-C LIGHTS IN EXISTING AIR HANDLING UNIT IN DISCHARGE AIR PLENUM DOWNSTREAM OF SUPPLY FAN EQUIVALENT TO UV RESOURCES RLM XTREME.																						

AIR BALANCE SCHEDULE																
ROOM #	ROOM NAME	ROOM TYPE	OCCUPANCY (# OF PEOPLE)	OA ACH REQUIRED BY ASHRAE 170	ACTUAL OA ACH	TOTAL ACH REQUIRED BY ASHRAE 170	ACTUAL TOTAL ACH	ECA REQUIRED BY ASHRAE 241 (CFM)	ACTUAL ECA	SA CFM	AIR CLEANER CFM	OA CFM	EA CFM	PRESSURIZATION	POSITIVE	NEGATIVE
															%	%
100	CORRIDOR	CORRIDOR	0	0	3.0	0	3.0	0	145	145	0	145	0	POSITIVE	100%	-
101	STORAGE	CORRIDOR	0	0	2.9	0	2.9	0	65	65	0	65	0	POSITIVE	100%	-
102	ELEC	CORRIDOR	0	0	18.4	0	18.4	0	360	360	0	360	0	POSITIVE	100%	-
103	W.H.	CORRIDOR	0	0	7.1	0	7.1	0	150	150	0	150	0	POSITIVE	100%	-
104	MECH	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
105	LINENS	CORRIDOR	0	0	5.2	0	12.2	0	75	75	0	75	100	NEGATIVE	-	25%
106	MEDS	CORRIDOR	0	0	8.5	0	8.5	0	75	75	0	75	0	POSITIVE	100%	-
107	UNIT A	PATIENT	1	2	2.0	0	3.8	70	85	460	0	85	75	POSITIVE	12%	-
108	UNIT B	PATIENT	2	2	2.1	0	3.2	140	140	640	0	140	75	POSITIVE	46%	-
109	STORAGE	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
110	BATHING	RESTROOM	0	0	10.0	10	20.5	0	525	525	0	525	550	NEGATIVE	-	5%
111	UNIT C	PATIENT	2	2	2.1	0	3.2	140	140	640	0	140	75	POSITIVE	46%	-
112	UNIT A	PATIENT	1	2	2.0	0	3.8	70	85	460	0	85	75	POSITIVE	12%	-
113	SITTING	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
114	STORAGE	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
115	UNIT D	PATIENT	2	2	2.0	0	3.1	140	140	640	0	140	75	POSITIVE	46%	-
116	UNIT E	PATIENT	1	2	2.0	0	3.5	70	105	460	0	105	75	POSITIVE	29%	-
117	UNIT A	PATIENT	1	2	2.1	0	3.9	70	85	460	0	85	75	POSITIVE	12%	-
118	UNIT F	PATIENT	2	2	2.3	0	3.5	140	140	640	0	140	75	POSITIVE	46%	-
119	ELEC	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
120	CORRIDOR	CORRIDOR	0	0	2.2	0	2.2	0	400	400	0	400	0	POSITIVE	100%	-
121	DINING/ACTIVITY	ACTIVITY	0	4	9.6	0	9.6	0	390	390	0	390	0	POSITIVE	100%	-
122	NURSE STATION	COMMON SPACE	4	0	6.0	0	6.0	200	200	0	0	200	0	POSITIVE	100%	-
123	CORRIDOR	CORRIDOR	0	0	4.3	0	4.3	0	200	200	0	200	0	POSITIVE	100%	-
124	ACTIVITY	ACTIVITY	0	4	4.3	0	4.3	0	225	225	0	225	0	POSITIVE	100%	-
125	CORRIDOR	CORRIDOR	0	0	2.0	0	2.0	0	450	450	0	450	0	POSITIVE	100%	-
126	ELEC	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
127	UNIT F	PATIENT	2	2	2.1	0	3.2	140	140	640	0	140	75	POSITIVE	46%	-
128	UNIT A	PATIENT	1	2	2.0	0	3.8	70	85	460	0	85	75	POSITIVE	12%	-
129	UNIT E	PATIENT	1	2	2.0	0	3.5	70	105	460	0	105	75	POSITIVE	29%	-
130	UNIT D	PATIENT	2	2	2.0	0	3.1	140	140	640	0	140	75	POSITIVE	46%	-
131	STORAGE	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
132	SITTING	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
133	UNIT A	PATIENT	1	2	2.0	0	3.8	70	85	460	0	85	75	POSITIVE	12%	-
134	UNIT C	PATIENT	2	2	2.1	0	3.2	140	140	640	0	140	75	POSITIVE	46%	-
135	UTILITY	CORRIDOR	0	0	4.8	0	10.8	0	200	200	0	200	250	NEGATIVE	-	20%
136	SHOWER	RESTROOM	0	0	8.1	10	20.3	0	100	100	0	100	150	NEGATIVE	-	33%
137	UNIT A	PATIENT	1	2	2.0	0	3.8	70	85	460	0	85	75	POSITIVE	12%	-
138	UNIT A	PATIENT	1	2	2.0	0	3.8	70	85	460	0	85	75	POSITIVE	12%	-
139	UNIT B	PATIENT	2	2	2.1	0	3.2	140	140	640	0	140	75	POSITIVE	46%	-
140	NOUR	CORRIDOR	0	0	6.7	0	14.5	0	150	150	0	150	175	NEGATIVE	-	14%
141	EXAM	COMMON SPACE	2	0	4.6	0	4.6	100	100	0	0	100	0	POSITIVE	100%	-
142	LINENS	CORRIDOR	0	0	5.2	0	12.2	0	75	0	0	75	100	NEGATIVE	-	25%
143	STORAGE	CORRIDOR	0	0	3.5	0	3.5	0	50	50	0	50	0	POSITIVE	100%	-
144	OFFICE	OFFICE	1	0	6.0	0	6.0	0	120	120	0	120	0	POSITIVE	100%	-
145	VESTIBULE	CORRIDOR	0	0	2.6	0	2.6	0	100	100	0	100	0	POSITIVE	100%	-
146	SUPPLY	CORRIDOR	0	0	3.0	0	3.0	0	50	50	0	50	0	POSITIVE	100%	-
147	NOUR	CORRIDOR	0	0	6.7	0	14.5	0	150	150	0	150	175	NEGATIVE	-	14%
148	OXYGEN	CORRIDOR	0	0	0.0	0	21.4	0	0	0	0	0	50	NEGATIVE	-	100%
149	STORAGE	CORRIDOR	0	0	3.7	0	3.7	0	100	100	0	100	0	POSITIVE	100%	-
150	UNIT B	All	2	0	2.1	12	15.4	0	140	640	750	140	155	NEGATIVE	-	10%
151	UNIT A	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
152	UNIT A	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
153	SHOWER	RESTROOM	0	0	11.8	10	24.4	0	145	145	0	145	155	NEGATIVE	-	6%
154	UTILITY	CORRIDOR	0	0	3.9	0	8.4	0	100	100	0	100	115	NEGATIVE	-	13%
155	UNIT C	All	2	0	1.9	12	14.4	0	140	640	750	140	155	NEGATIVE	-	10%
156	UNIT A	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
157	SITTING	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
158	STORAGE	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
159	UNIT D	All	2	0	2.0	12	15.2	0	140	810	750	140	155	NEGATIVE	-	10%
160	UNIT E	All	1	0	2.0	12	12.0	0	105	460	375	105	135	NEGATIVE	-	22%
161	UNIT A	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
162	UNIT F	All	2	0	2.1	12	15.4	0	140	640	750	140	155	NEGATIVE	-	10%
163	ELEC	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
164	CORRIDOR	CORRIDOR	0	0	1.8	0	3.5	0	400	400	0	400	375	POSITIVE	6%	-
165	ACTIVITY	ACTIVITY	0	4	4.3	0	8.2	0	225	225	0	225	200	POSITIVE	11%	-
166	NURSE STATION	COMMON SPACE	4	0	5.9	0	11.0	200	200	0	0	200	175	POSITIVE	13%	-
167	CORRIDOR	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
168	ACTIVITY	ACTIVITY	0	4	9.6	0	18.3	0	390	390	0	390	350	POSITIVE	10%	-
169	CORRIDOR	CORRIDOR	0	0	2.6	0	5.0	0	450	450	0	450	400	POSITIVE	11%	-
170	ELEC	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
171	UNIT F	All	2	0	2.1	12	15.4	0	140	640	750	140	155	NEGATIVE	-	10%
172	UNIT A	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
173	UNIT E	All	1	0	2.0	12	12.0	0	105	460	375	105	135	NEGATIVE	-	22%
174	UNIT D	All	2	0	2.0	12	15.2	0	140	640	750	140	155	NEGATIVE	-	10%
175	STORAGE	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
176	SITTING	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
177	UNIT C	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
178	UNIT A	All	2	0	2.1	12	15.4	0	140	640	750	140	155	NEGATIVE	-	10%
179	BATHING	RESTROOM	0	0	10.0	10	20.5	0	525	525	0	525	550	NEGATIVE	-	5%
180	ELEC	CORRIDOR	0	0	0.0	0	0.0	0	0	0	0	0	0	NEUTRAL	-	-
181	UNIT B	All	2	0	2.1	12	15.4	0	140	640	750	140	155	NEGATIVE	-	10%
182	UNIT A	All	1	0	2.0	12	13.5	0	85	460	375	85	115	NEGATIVE	-	26%
183	MEDS	CORRIDOR	0	0	8.6	0	8.6	0	75	75	0	75	0	POSITIVE	100%	-
184	LINENS	CORRIDOR	0	0	5.2	0	12.2	0	75	75	0	75	100	NEGATIVE	-	25%
185	REPORT	OFFICE	1	0	6.0	0	6.0	0	120	120	0	120	275	NEGATIVE	-	9%
186	TLT	RESTROOM	0	0	0.0	0	11.5	0	0	0	0	0	75	NEGATIVE	-	100%
187	JANITOR	OFFICE	0	0	0.0	0	10.3	0	0	0	0	0	90	NEGATIVE	-	100%
188	OFFICE	OFFICE	1	0	6.0	0	6.0	0	200	200	0	200	0	POSITIVE	100%	-
TOTAL BUILDING:									11340	200		11340	8000	POSITIVE	28%	-
ABBREVIATIONS: ACH - AIR CHANGER PER HOUR All - AIRBORNE INFECTION ISOLATION ROOM ECA - EQUIVALENT CLEAN AIR																