

### HVAC NOTES

- 1 VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH ARCHITECT.
- 2 ALL MOTOR STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.
- 3 THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- 4 COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AND AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- 5 CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- 6 DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: RECTANGULAR SUPPLY: 1-1/2" EXTERNAL ROUND SUPPLY: 1-1/2" EXTERNAL FLEXIBLE SUPPLY: 1" PRE INSULATED RECTANGULAR RETURN: 1-1/2" EXTERNAL OSA/EXHAUST: 1-1/2" EXTERNAL
- 7 THE CONTRACTOR SHALL INSTALL THE CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING.
- 8 MECHANICAL CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE REQUIRED.
- 9 WARRANTIES SHALL BEGIN AT DATE OF SUBSTANTIAL COMPLETION. ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT.
- 10 ALL THREE PHASE EQUIPMENT SHALL BE EQUIPPED WITH PHASE LOSS PROTECTION.

### LOUVER SCHEDULE

MARK NO.	MOUNTING	SIZE W X H	BLADE ANGLE	BLADE CENTERS	MIN. FREE AREA	MIN. FREE AREA SQ. FT.	MAX. PRESSURE DROP IN W.G.	CFM	MODEL NO. DATA		NOTES
									MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	
L-1	SIDE WALL	36"x36"	37.0'	3.58"	42%	3.83	0.15	4,000	UNITED ENERTECH	CFL-D-6	SEE BELOW
L-2	SIDE WALL	36"x48"	37.0'	3.58"	45%	4.50	0.10	4,000	UNITED ENERTECH	CFL-D-6	SEE BELOW

- 1 LOUVER TO INCLUDE FLANGE FRAME. VERIFY FINAL COLOR AND FINISH WITH ARCHITECT. VERIFY QUANTITY WITH PLANS.
- 2 LOUVER L-2 TO INCLUDE MOTORIZED DAMPER CONCEALED IN EXTENDED LOUVER BASE (SIZE SCHEDULED INCLUDES EXTENDED BASE).
- 3 LOUVER L-2 TO INCLUDE MILLER WIREWORKS HEAVY DUTY WIRE GYM GUARD.
- 4 LOUVER L-1 TO INCLUDE MOTORIZED DAMPER.

APPROVED EQUALS: GREENHECK AND RUSKIN.

### GAS-FIRED UNIT HEATER SCHEDULE

MARK NO.	PERFORMANCE						MOTOR DATA						NOTES
	TOTAL INPUT BTU/HR.	TOTAL OUTPUT BTU/HR.	CFM @ 70° F	FPM	AIR TEMP. RISE °F.	THROW	MAXIMUM MOUNTING HEIGHT	HP	AMPS (@ 115V)	RPM	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	
SUB-1	260,000	241,800	4585	831	49	70'-0"	20'-0"	3/4 MHP	11.1	1125	MODINE	PTC260	SEE BELOW

- 1 UNIT TO INCLUDE SPARK IGNITION, LOW VOLTAGE THERMOSTAT CONTROLS, AND 4" EXHAUST FLUE.
- 2 VERIFY FINAL MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/ENGINEER.
- 3 THERMOSTAT SHALL INCLUDE HEAVY DUTY WIRE GYM GUARD.
- 4 UNIT SHALL INCLUDE FACTORY HORIZONTAL CONCENTRIC VENT KIT INCLUDING CONCENTRIC ADAPTER.
- 5 UNIT SHALL INCLUDE ENERGY SAVER THERMOSTAT.
- 6 4" COMBUSTION AIR INLET.
- 7 4" VENT OUTLET.

APPROVED EQUALS: JANITROL AND REZNOV

### EXHAUST FAN SCHEDULE

MARK NO.	MOUNTING	CFM	STATIC IN W.G.	SONES	WATTS/H.P.	ELECTRICAL	MANUFACTURER	MODEL NO.	WEIGHT (LBS.)	NOTES
EF-1	WALL	4000	0.50	19.9	1.0 H.P.	208-3-60	LOREN COOK	30XMH	340	1, 2, 3, 4

- 1 FAN TO BE SWITCHED WITH WALL MOUNTED SWITCH (HIGH/LOW/OFF)
- 2 FAN TO INCLUDE WALL COLLAR, WIREGUARD-MOTOR SIDE, AND FACTORY DISCONNECT
- 3 FAN TO BE TWO SPEED (1725/0860 RPM) TWO WINDING
- 4 HIGH SPEED = 5500 CFM; LOW SPEED = 2740 CFM

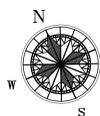
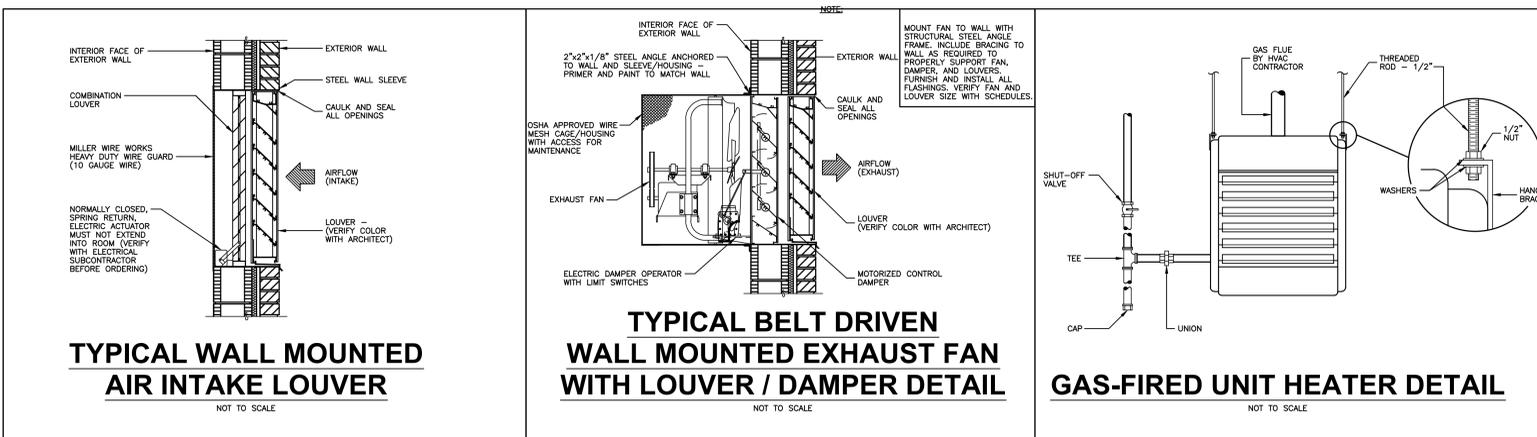
APPROVED EQUALS: GREENHECK, AND PENN.

### HVAC LEGEND

SYMBOL	DESCRIPTION
	LOW LEAKAGE MOTORIZED VOLUME DAMPER

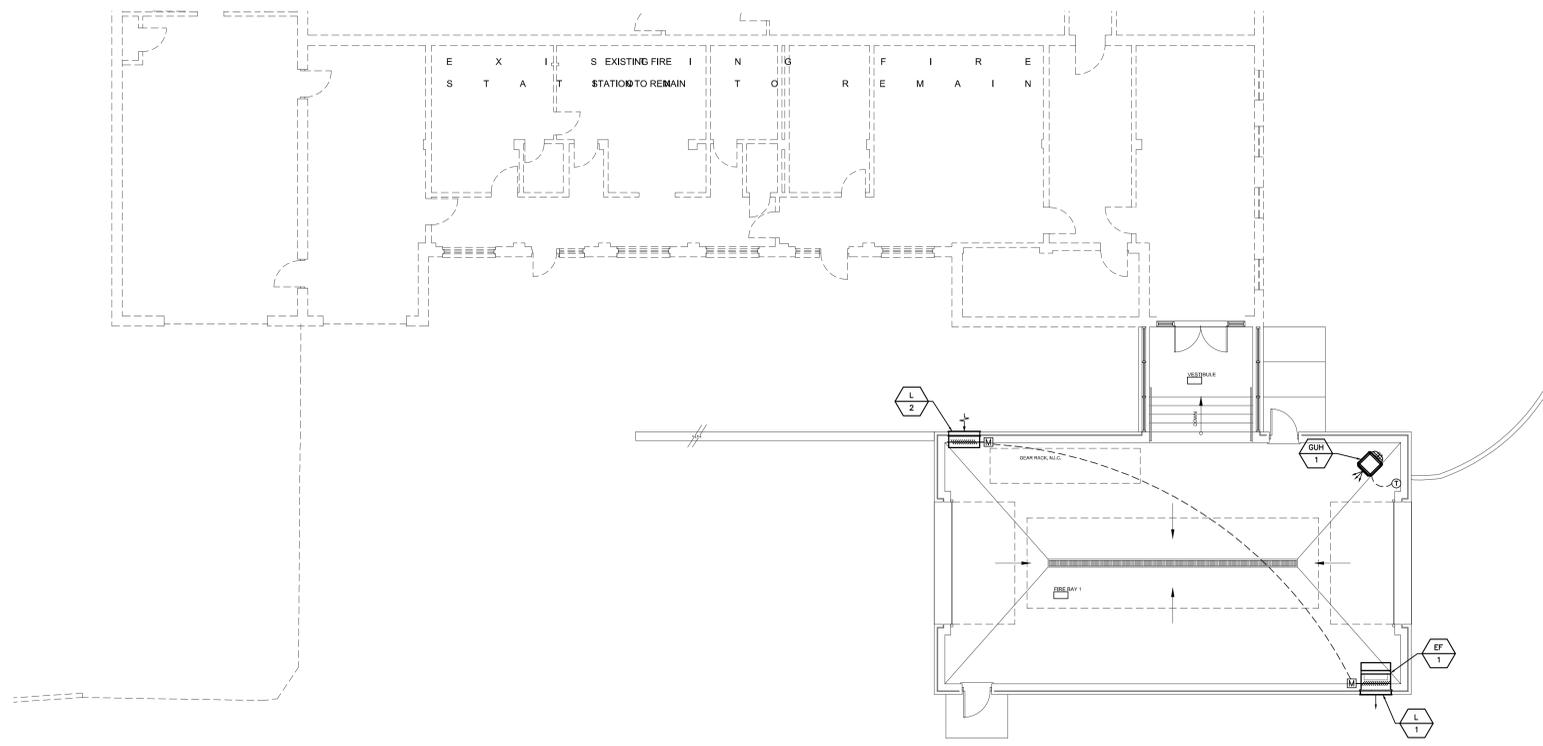
### HVAC DRAWING INDEX

SHEET NO.	SHEET TITLE
M1.1	HVAC PLAN



### HVAC PLAN

SCALE: 1/8" = 1'-0"



**MCE MILLS-CONOLY ENGINEERING, P.C.**

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Central Alabama Veterans Health Care System

Approved:	Approved:	Approved:	Approved:
Approved:	Approved:	Approved:	Approved:
Approved:	Approved:	Approved:	Approved:
Approved:	Approved:	Approved:	Approved:

Drawing Title	HVAC PLAN
Safety Officer	
Clinical Representative	

**WHORTON ENGINEERING, INC.**  
HVAC - PLUMBING - PROCESS CONTROL

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DATE 7-1-11  
25 SUMMERALL GATE ROAD  
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 11132

Project Title	MODIFY FIRE BAY, B-15 CENTRAL ALABAMA VETERANS HEALTH CARE SYSTEM TUSKEGEE, ALABAMA
Building Number	15
Checked	HWP
Drawn	DC
Location	East Campus, Tuskegee, AL

Date	7/01/11
Project No.	619-10-455
DRAWING NO.	M1.1
Dwg. 14 of 16	

Veterans Administration