		LEGEND & ABBRE	[V]		
ABBREVIATION	SYMBOL	DESCRIPTION			
	S	SWITCH	1		
GV	——————————————————————————————————————	- GATE VALVE]		
CV CHECK VALVE					
		- UNION			
	M	MOTOR OPERATED LOUVER			
	ф	ROUND]		
		DIRECTION OF FLOW			
T'STAT	Ţ	THERMOSTAT			
		- SINGLE LINE DUCT]		

GENERAL NOTES:

- A. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. B. UNLESS OTHERWISE INDICATED, INSTALL ALL SPACE THERMOSTATS AND CONTROLLERS 48 INCHES ABOVE
- FINISHED FLOOR. C. DUCT SIZES SHOWN ARE ACTUAL INSIDE DIMENSIONS.
- D. FLEXIBLE OR ROUND DUCT SHALL BE CONNECTED TO RECTANGULAR OR SQUARE DUCT WITH A SPIN-IN COLLAR WITH SCOOP AND DAMPER.
- E. INSTALL TURNING VANES IN ALL 45 AND 90 DEGREE MITERED ELBOWS.

GENERAL HVAC:

- A. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES: 1. THE INTERNATIONAL BUILDING CODE 2012 EDITION WITH GEORGIA AMENDMENTS. 2. THE INTERNATIONAL MECHANICAL CODE 2012 EDITION WITH GEORGIA AMENDMENTS
- 3. THE INTERNATIONAL ENERGY CONSERVATION CODE 2009 EDITION WITH GEORGIA AMENDMENTS. 4. THE INTERNATIONAL PLUMBING CODE, 2012 EDITION WITH GEORGIA AMENDMENTS. B. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
- 1. NFPA STANDARD 70, NATIONAL ELECTRIC CODE 2. NFPA STANDARD 90A, INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS.

3. NFPA STANDARD 101, CODE FOR SAFETY OF LIFE FROM FIRE IN BUILDINGS AND STRUCTURES. **TESTING PIPE SYSTEMS:**

A. GENERAL, CONCEALED PIPING AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING OR COVERING. TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. PIPING LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING. EQUIPMENT, MATERIALS, AND INSTRUMENTS FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.

TEST AND BALANCE:

- THE CONTRACTOR SHALL PERFORM TEST AND BALANCE ON THE AIR AND WATER DISTRIBUTION SYSTEMS A. INSTRUMENTS USED FOR BALANCING SHALL HAVE BEEN CALIBRATED WITHIN 6 MONTHS PRIOR TO THE BALANCING
- B. ALL INSTRUMENTS REQUIRED TO BALANCE THE SYSTEM SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
- C. FINAL READINGS SHALL BE SET WITH -5% TO +10% OF DESIGN CONDITIONS. D. ANY DEVIATIONS FROM DESIGN DATA SHALL BE EXPLAINED IN THE REPORT - POSSIBLE REASONS FOR AND
- E. REPORT SHALL BE SIGNED AND DATED BY BALANCE ENGINEER. F. TEST AND BALANCE SHALL NOT BE PERFORMED UNTIL SYSTEM INSTALLATION IS COMPLETE.

INSULATION FOR HVAC SYSTEMS:

- A. FIBERGLASS BLANKET INSULATION ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTS SHALL BE FIBROUS GLASS BLANKET TYPE DESIGNED FOR USE ON SURFACES UP TO 250 F WITH A FACTORY APPLIED ALUMINUM FOIL AND KRAFT VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MINIMUM DENSITY OF 1.0 LB/CU. FT. AND A MAXIMUM CONDUCTIVITY OF 0.26 BTU/IN. PER SQ.FT. PER DEGREE F PER HOUR AT 75°F MEAN TEMPERATURE INSULATION SHALL BE KNAUF DUCTWRAP OR APPROVED EQUAL. INSULATION THICKNESS SHALL BE 2".
- B. INSULATION FOR REFRIGERANT LINES AND CONDENSATE DRAINS SHALL BE SELF SEALING, FLEXIBLE CELLULAR, ELASTOMERIC TYPE CONFORMING TO ASTM C534, DESIGNED FOR USE ON PIPES FROM -40°F TO 220°F (-40°C TO 105°C). INSULATION SHALL HAVE A MINIMUM DENSITY OF 6 LB/CU FT AND A MAXIMUM CONDUCTIVITY OF 0.28 BTU/IN/SQ FT/°F/HR AT 75°F MEAN TEMPERATURE, AND A MAXIMUM PERMANENCE OF 0.17 LB/SQ FT. ADHESIVES USED FOR CONNECTIONS SHALL BE MANUFACTURER'S STANDARD UV-PROTECTION. INSULATION SHALL BE ARMACELL AP/SS ARMAFLEX.

AIR DISTRIBUTION:

- A. GENERAL
- 1. DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING QUALITY GALVANIZED STEEL SHEETS. GALVANIZED COATING SHALL BE NOT LESS THAN 0.90 OUNCES (TOTAL FOR BOTH SIDES) PER SQUARE FOOT OF SHEET. 2. DUCTWORK SHALL BE SQUARE, RECTANGULAR, ROUND, OR FLAT OVAL, AS INDICATED ON THE DRAWINGS. 3. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS. IN ANY SUPPLY, RETURN OR EXHAUST AIR DUCTWORK WITH VELOCITIES OF 1800 FPM OR HIGHER, THE TURNING VANES SHALL BE THE DOUBLE THICKNESS TYPE, WITH VANES WELDED
- 4. DUCTWORK SHALL BE CLASSIFIED AND CONSTRUCTED IN THE FOLLOWING SMACNA PRESSURE CLASSES, OR 150% OF THE SCHEDULED FAN S.P., WHICHEVER IS GREATER:
- SYSTEM OR ZONE PRESSURE CLASS SUPPLY AIR DUCTWORK (GENERAL BUILDING)

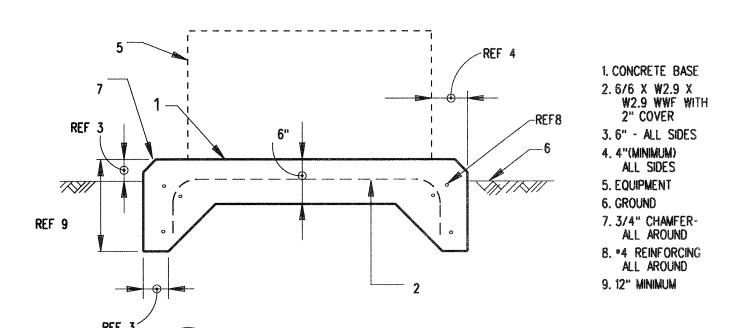
TO THE RUNNERS AND RUNNERS WELDED TO THE DUCT.

- RETURN DUCTWORK (GENERAL BUILDING) **EXHAUST DUCTWORK (GENERAL BUILDING)**
- B. GALVANIZED STEEL DUCTWORK 1. EXCEPT WHERE INDICATED OTHERWISE DUCT CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SMACNA HVAC DUCT CONSTRUCTION MANUAL FOR PRESSURE CLASSES SPECIFIED HEREIN BEFORE.
- C. FLEXIBLE DUCTWORK 1. INSULATED FLEXIBLE DUCT SHALL BE CLASS 1 AIR DUCT IN ACCORDANCE WITH UL 181 AND SHALL COMPLY WITH NFPA 90A AND 90B. INSULATED FLEXIBLE DUCT SHALL CONSIST OF AN INNER FILM LAYER FOR MINIMUM WORKING PRESSURE OF 6" WG. BONDED TO A STEEL OR ALUMINUM SPRING WIRE HELIX, FIBERGLASS INSULATION, AND A VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MAXIMUM C-VALUE OF 0.23 BTU/HR/SQ. FT./DEGREE F. AT 75 DEGREES F. MEAN TEMPERATURE. VAPOR BARRIER JACKET SHALL HAVE A MAXIMUM VAPOR TRANSMISSION RATE OF 0.1 GRAINS/SQ. FT./HR/INCH HG (PERM)

WIDE STAINLESS STEEL CEILING COLLAR AROUND THE DUCT PENETRATION THROUGH THE CEILING.

THE ASSEMBLY SHALL HAVE A MAXIMUM FLAME AND SMOKE RATING OF 25/50 PER ASTM E84 AND NFPA 255. MINIMUM WORKING PRESSURE FOR DUCT PRESSURE CLASS 4" AND BELOW SHALL BE 6" WG. INSULATED FLEXIBLE DUCT SHALL BE THERMOFLEX OR APPROVED EQUAL. D. STAINLESS STEEL DUCTWORK 1. LAB HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF 18 GAUGE (1.3MM), TYPE 316 STAINLESS STEEL WITH

NO. 4 FINISH ON EXPOSED SURFACES. ALL FASTENERS SHALL BE TYLE 316 STAINLESS STEEL. PROVIDE A 2" (50MM)



SCALE: NOT TO SCALE

EXTERIOR CONCRETE BASE

/ I A	<u>ATIONS</u>					
	ABBREVIATION	DESCRIPTION				
	AB	ABOVE				
	A/C	ABOVE CEILING				
	AFF	ABOVE FINISHED FLOOR				
	B/F	BELOW FLOOR				
	DN	DOWN				
	DWGS	DRAWINGS				
	ELEC	ELECTRICAL				
	LV	LOUVER				
	TYP	TYPICAL				
	U/G	UNDERGROUND				
	ETR	EXISTING TO REMAIN				
	A/S	AT STRUCTURE				
	BTUH	BRITISH THERMAL UNITS PER HOUR				
	CFM	CUBIC FEET PER MINUTE				
	EF	EXHAUST FAN				
	HVAC	HEATING VENTILATING & AIR CONDITIONING				
	EXH	EXHAUST				
	UH	ELECTRIC UNIT HEATER				
	AHU	AIR HANDLER UNIT				
	HP	HEAT PUMP				

AIR DEVICES:

- A. TYPE 'A' SUPPLY AIR DIFFUSER SHALL BE TITUS OMNI-AA OR APPROVED EQUAL.
- PROVIDE WITH OPPOSED BLADE DAMPER. PRICE IS AN APPROVED EQUAL. B. TYPE 'B' RETURN AIR REGISTER SHALL BE TITUS PAR-AA OR APPROVED EQUAL PROVIDE WITH OPPOSED BLADE DAMPER. PRICE IS AN APPROVED EQUAL.
- . TYPE 'C' RETURN AIR GRILLE SHALL BE TITUS 350FL OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER. PRICE IS AN APPROVED EQUAL.
- D. TYPE 'D' SUPPLY AIR DIFFUSER SHALL BE TITUS 300FL OR APPROVED EQUAL PROVIDE WITH OPPOSED BLADE DAMPER. PRICE IS AN APPROVED EQUAL.

UNIT HEATER

(1) HEATER SHALL BE (

1. PIPE FULL SIZE OF AIR UNIT DRAIN CONNECTION.

PRESSURE PLUS 1.0 INCH.

0.5 PLUS 1 INCH.

AIR UNIT CASING

SCALE: NOT TO SCALE

MINIMUM HEIGHT SHALL BE EQUAL TO FAN PLENUM NEGATIVE

MINIMUM HEIGHT SHALL BE EQUAL TO HEIGHT OF REF 3 TIMES

CONDENSATE DRAIN TRAP - DRAW THROUGH

2 UNIT HEATERS SHALL CYCLE AS REQUIRED TO MAINTAIN 55.0°F (ADJ.) SET POINT IN AREA SERVED.

REF

CAPS

H001

	DESIGN CONDITIONS									
N		UNIT				INSIDE			OUTSID	
				AREA SERVED	HEATING	COOLING		HEATING	СО	
					DB °F	DB °F	WB °F	DB °F	DB °F	
		AHU-1,2,3,4,5		2ND FLOOR, MCC ROOM	70.0	73.0	61.0	27.1	95.5	
		UNIT HEATERS		1ST FLOOR	55.0	****		27.1		
			THE PARTY OF THE P	AIR DIST	rribu ⁻	ΓΙΟΝ	DEVI	CES		
PER HOUR			SYMBOI	LOCATION	FUNCTION	-	TYPE	SURFAC	CE TYPE	

CEILING

CEILING/

SUPPLY

EXHAUST

RETURN/

EXHAUST

D	CEILING	SUPPLY	LOUVERED FACE	SURFACE MOUNT	
			DIRECTIO	N OF BLOW	
SY	MRNI /TYPI	- SFF		- 4-WAY	
SP F0	ECIFICATION DESCRIP	ŌŃS TION ◀	_ 🛛 → -	- 3-WAY	
	— NECK S	IZE		•	
X *****			V → 0	R	
LAIF	R QUANTIT	Y CFM			
	SY SP F0 ***X**	SYMBOL/TYPI SPECIFICATIO FOR DESCRIP NECK SI	SYMBOL/TYPE.SEE SPECIFICATIONS FOR DESCRIPTION NECK SIZE ***X*** ******	DIRECTIO SYMBOL/TYPE.SEE SPECIFICATIONS FOR DESCRIPTION NECK SIZE ******* NECK SIZE	DIRECTION OF BLOW SYMBOL/TYPE.SEE SPECIFICATIONS FOR DESCRIPTION NECK SIZE OR

PLAQUE FACE

OUTSIDE

LAY-IN

SURFACE

MOUNT

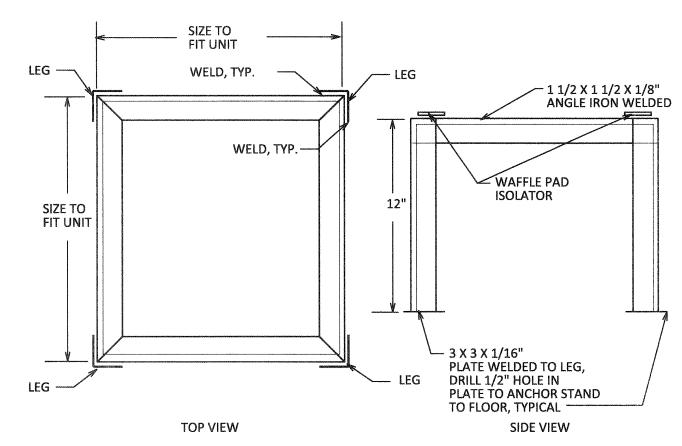
COOLING

DB°F | WB°F

77.3

JNIT HEATER						LOUVER				
SYMBOL	UH-1	UH-2	UH-3	UH-4		SYMBOL LV-1		LV-2	LV-3	LV-4
ТҮРЕ	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL		ТҮРЕ	INTAKE	INTAKE	EXHAUST	EXHAUST
CAPACITY, KW DERATED AT 208 VOLTS	3.00	3.00	3.00	3.00		AIRFLOW, CFM	3,500	3,500	3,500	3,500
MOUNTING HEIGHT TO BOTTOM, FT.	8'-0"	8'-0"	8'-0"	8:-0"		FREE AREA, SQ FT	4.12	4.12	4.12	4.12
LOCATION	AUXILARY ROOM	AUXILARY ROOM	AUXILARY ROOM	AUXILARY ROOM		APPROXIMATE SIZE, WIDTH X HEIGHT, INCH	54 X 30	54 X 30	54 X 30	54 X 30
ELECTRICAL CHARACTERISTICS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS		PRESSURE DROP, IN. H2O	0.090	0.090	0.120	0.120
REMARKS	12	12	12	12		MOUNTING HEIGHT AFF TO BOTTOM OF LOUVER	8'-0"	8'-0"	15'-0"	15'-0"
HEATER SHALL BE Q-MARK MODEL: MUH OR APPROVED EQUAL HORIZONTAL DISCHARGE UNIT HEATER, UNIT HEATER SHALL BE				LOCATION	AUXILIARY ROOM	AUXILIARY ROOM	AUXILIARY ROOM	AUXILIARY ROOM		
PROVIDED WITH B BRACKETS.	BUILT-IN TH			REMARKS	12	13	12	13		

- (1) LOUVER SHALL BE GREENHECK MODEL: EAC-601 OR APPROVED EQUAL 6" THICK CONCEALED LINKAGE J-BLADE COMBINATION ALUMINUM LOUVER AND DAMPER. PROVIDE DAMPER WITH 24VAC MOTOR OPERATED ACTUATOR AND BIRD SCREEN. RUSKIN IS AN APPROVED EQUAL. COORDINATE LOUVER COLOR AND FINISH WITH ARCHITECT.
- (2) LV-1 AND LV-3 SHALL INTERLOCK WITH EF-4.
- (3) LV-2 AND LV-4 SHALL INTERLOCK WITH EF-5.



- AIR HANDLER STAND DETAIL
- SCALE: NOT TO SCALE

PI	IT SYSTEM	UNITS		
	SYMBOL	AHU-1/HP-1	AHU-2/HP-2	
	ТҮРЕ	VERTICAL	VERTICAL	
	TOTAL CFM	1,920	1,060	
ΛΙΝΙ	MUM OUTSIDE AIR, CFM	230	125	
	KTERNAL STATIC ESSURE, IN. H2O	0.500	0.500	
M. W. O.	TOTAL CAPACITY BTU/HR	55,300	30,900	
	SENSIBLE CAPACITY BTU/HR	46,700	25,800	
COOLING	ENT. AIR DB. °F	77.2	77.4	
000	ENT. AIR WB. °F	64.5	64.7	
	COND. AMBIENT TEMP., °F	95.5	95.5	
	MINIMUM (SEASONAL) EER	14.0	14.0	
	TOTAL CAPACITY BTU/HR	41,800	23,000	
ග	ENT. AIR DB. °F	64.9	64.9	
IEATING	LVG. AIR DB. °F	85.0	85.0	
I	AMBIENT AIR TEMP., °F	27.1	27.1	
	MINIMUM COP AT 17°F	2.3	2.3	
AUX. HEAT	CAPACITY, KW AT 208 VOLT DERATE	7.2	3.6	
AUX.	NO. OF STAGES	1	1	
	LOCATION	MECH ROOM 201	MECH ROOM 216	
Cl	ELECTRICAL HARACTERISTICS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	
	REMARKS	123	12	
		L	L	

- 1 HEAT PUMP SHALL BE TRANE MODEL: 4TWR4/TEM4 OR APPROVED EQUAL SPLIT SYSTEM HEAT PUMP. PROVIDE UNIT WITH 7-DAY AUTO-CHANGEOVER THERMOSTAT AND FACTORY APPLIED SALT SPRAY COIL COATING. CARRIER AND DAIKIN ARE APPROVED EQUALS.
- (2) SPLIT SYSTEMS FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS AND CYCLE AS REQUIRED DURING UNOCCUPIED HOURS. THE UNIT SHALL CYCLE THE REVERSING VALVE. COMPRESSOR. AND AUX. STRIP HEAT AS REQUIRED TO MAINTAIN SET
- (3) UPON ACTIVATION OF THE SMOKE ALARM. THE UNIT SHALL DENERGIZE AND THE ANNUNCIATOR SHALL ACTIVATE.

EXHAUST FANS

REMARKS

DU	CTLESS SPI	LIT SYST	EMS	
	SYMBOL	AHU-3/HP-3	AHU-4/HP-4	AHU-5/HP-5
	ТҮРЕ	CEILING CASSETTE	CEILING CASSETTE	CEILING CASSETTE
NO	MINAL SIZE, TONS	3.0	3.0	3.0
	TOTAL CFM	1,060	1,060	1,060
MINI	MUM OUTSIDE AIR, CFM	0	0	0
1	CTERNAL STATIC ESSURE, IN. H2O			
	TOTAL CAPACITY BTU/HR	24,600	24,600	24,600
	SENSIBLE CAPACITY BTU/HR	24,600	24,600	24,600
COOLING	ENT. AIR DB. °F	73.0	73.0	73.0
00	ENT. AIR WB. °F	61.0	61.0	61.0
	COND. AMBIENT TEMP., °F	95.5	95.5	95.5
	MINIMUM (SEASONAL) EER	14.2	14.2	14.2
	TOTAL CAPACITY BTU/HR	17,200	17,200	17,200
9	ENT. AIR DB. °F	70.0	70.0	70.0

LVG. AIR DB. °F

AMBIENT AIR

TEMP., °F

MINIMUM COP

CHARACTERISTICS

1 HEAT PUMP SHALL BE MITSUBISHI MODEL:
PLA/PUZ OR APPROVED EQUAL 4-WAY BLOW
CEILING CASSETTE DUCTLESS SPLIT SYSTEM HEAT
PUMP. PROVIDE UNIT WITH 7-DAY PROGRAMMABLE
AUTO-CHANGEOVER THERMOSTAT, FACTORY APPLIED SALT SPRAY COIL COATING, AND LOW AMBIENT CONTROLS. TRANE, CARRIER, AND DAIKIN ARE APPROVED EQUALS. UNITS ARE SIZED TO RUN A PART LOAD DURING NORMAL OPERATION. OR WITH TWO UNITS AT FULL LOAD IN EVENT OF UNIT FAILURE. VERIFY INDIVIDUAL UNITS MEET THE SENSIBLE LOAD SCHEDULED.

DRAWINGS

MCC ROOM | MCC ROOM | MCC ROOM

SEE ELEC

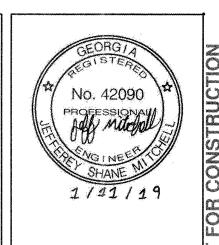
SEE ELEC

DRAWINGS DRAWINGS

2 SPLIT SYSTEM SHALL CYCLE THE FAN, REVERSING VALVE, AND COMPRESSOR AS REQUIRED TO MAINTAIN SET POINTS.

SYMBOL	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6
TYPE	IN-LINE	IN-LINE	CEILING CENTRIFUGAL	IN-LINE	IN-LINE	UTILITY, UP BLAST
CFM	100	100	100	3,500	3,500	1,180
EXTERNAL STATIC PRESSURE, IN. H2O	0.375	0.375	0.375	0.375	0.375	0.450
MAXIMUM SONES	1.0	1.0	1.5	15.6	15.6	5.7
MAXIMUM FAN SPEED, RPM	775	775	750	1,350	1,350	750
MAXIMUM OUTLET VELOCITY, FPM						~
MAXIMUM MOTOR POWER	60 W	60 W	130 W	2 HP	2 HP	3/4 HP
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
LOCATION	BATHROOM 211	BATHROOM 210	JANITOR'S CLOSET 209	AUXILIARY ROOM	AUXILIARY ROOM	2ND FLOOR EXTERIOR
ELECTRICAL CHARACTERISTICS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS	SEE ELEC	SEE ELEC DRAWINGS	SEE ELEC DRAWINGS

- 1 FAN SHALL BE GREENHECK MODEL SP OR APPROVED EQUAL CEILING MOUNT CENTRIFUGAL EXHAUST FAN. PROVIDE FAN WITH DISCONNECT, GRILLE, AND ROOF CAP. FAN SHALL INTERLOCK WITH LIGHTS, COORDINATE WITH ELECTRICAL CONTRACTOR. COOK IS AN APPROVED EQUAL.
- 2 FAN SHALL BE GREENHECK MODEL CSP OR APPROVED EQUAL IN-LINE EXHAUST FAN. PROVIDE FAN WITH DISCONNECT AND ROOF CAP. FAN SHALL BE INTERLOCKED WITH LIGHTS. COORDINATE WITH ELECTRICAL CONTRACTOR. COOK IS AN APPROVED EQUAL.
- 3 FAN SHALL BE GREENHECK MODEL SO OR APPROVED EQUAL IN-LINE EXHAUST FAN. PROVIDE FAN WITH WALL MOUNTED COOLING THERMOSTAT. COOK IS AN APPROVED EQUAL.
- FAN SHALL BE GREENHECK MODEL SWD OR APPROVED EQUAL BACKWARD INCLINED CENTRIFUGAL UTILITY FAN. PROVIDE FAN WITH DISCONNECT. SIDE WALL MOUNTING SUPPORT. AND WEATHER CAP DISCHARGE ACCESSORY. FAN SHALL BE CONTROLLED BY THE FUME HOOD. COOK IS AN APPROVED EQUAL.



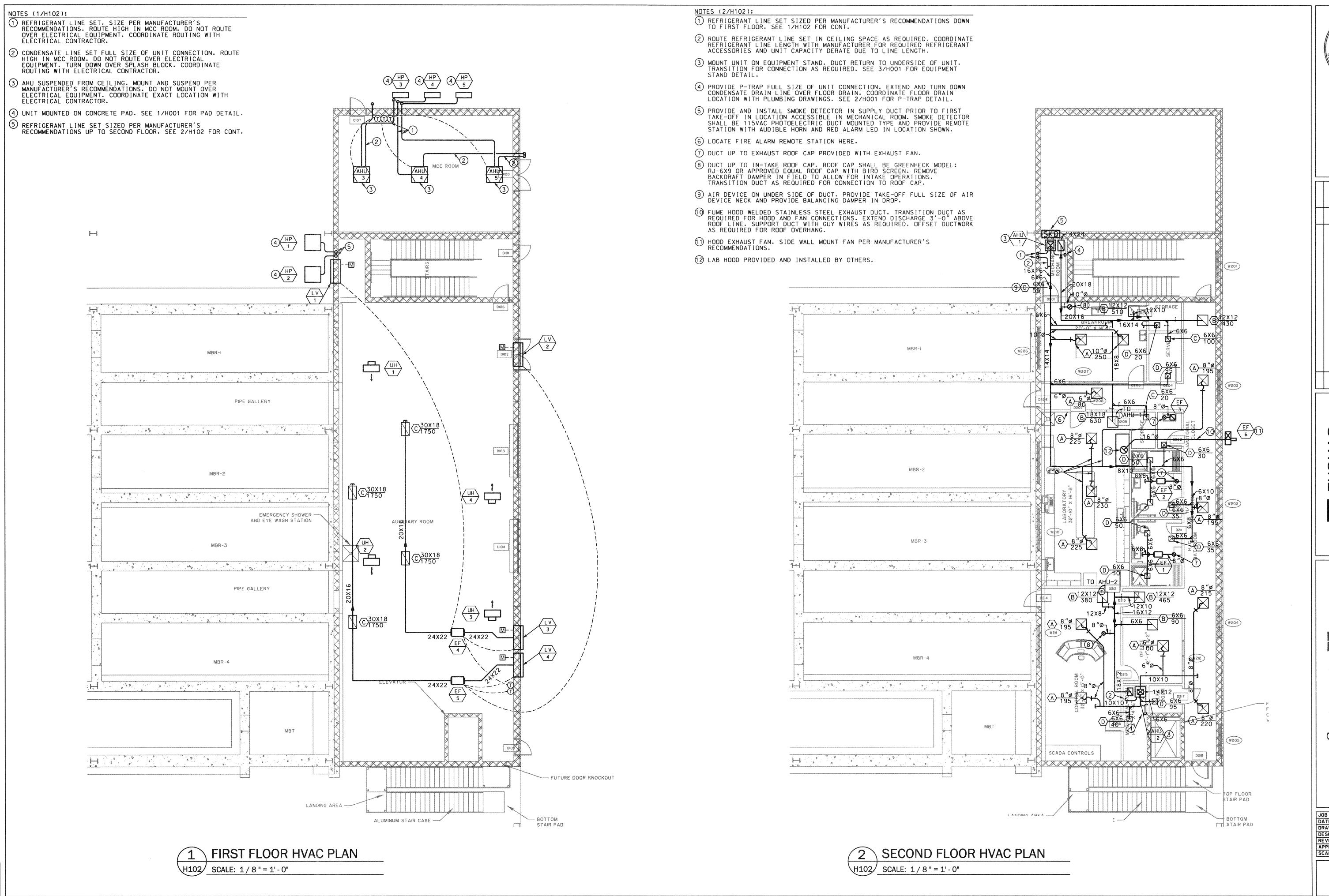
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JOB NO: J-26963.0000 DATE: JANUARY 15, 2019 DRAWN: JM DESIGNED: JM REVIEWED: MP APPROVED: JM SCALE: 1/8" = 1'-0"

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FACILIT NOIL SAVANNAH WA IELD

JOB NO: J-26963.0000 DATE: JANUARY 15, 2019 DRAWN: JM
DESIGNED: JM
REVIEWED: MP SCALE: 1/8" = 1'-0"