

HVAC GENERAL NOTES

- A. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS.

 B. DUCT TRANSITIONS MAY NOT BE SHOWN IN DETAIL ON PLAN. REFER TO DETAILS SHEETS AND SAID ALVAC DUCT CONTROLOR STANDARDS FOR HAVE 15.
- SHEETS AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR REQUIRED DUCT TRANSITIONS AND FITTINGS. ALL DUCT TAPS TO BRANCH DUCTS SHALL HAVE 45 DEGREE ENTRY FITTINGS.

 C. INSTALL FIRE DAMPERS ON ALL DUCTS PENETRATING FIRE RATED WALL ASSEMBLIES,
- COMPLETE WITH ACCESS DOORS, SEE STANDARD DETAIL. REFER TO ARCHITECTURAL DRAWING FOR WALL TYPES.

 D. ALL DUCTWORK SHALL BE SEALED AND INSULATED ACCORDING TO THE MECHANICAL
- E. COORDINATE FINAL THERMOSTAT INSTALLATION HEIGHT AND DISTANCE FROM DOOR WITH ARCHITECT.
- WITH ARCHITECT.
 REFER TO SPECIFICATION FOR ADDITIONAL STANDARD INSTALLATION DETAILS.
- G. DUCT INSULATION MATERIALS SHALL MEET SMOKE AND FLAME SPREAD REQUIREMENTS FOR PLENUM INSULATION.
- H. DUCT INSULATION SHALL FOLLOW THE SCHEDULES IN THE SPECIFICATION AS A MINIMUM REQUIREMENT. THESE REQUIREMENTS SHALL APPLY REGARDLESS OF WHETHER OR NOT DUCT INSULATION IS SHOWN ON THE DRAWINGS.
 I. WHERE DUCT INSULATION IS SHOWN ON THE DRAWINGS (EITHER WITH THE HATCHING
- CONVENTION OR BY MEANS OF A KEY NOTE) AND EXCEEDS THE REQUIREMENTS OF THE SCHEDULES IN THE SPECIFICATION, THE ADDITIONAL INSULATION REQUIREMENTS
- J. PROVIDE MANUAL BALANCE DAMPERS FOR EACH EXHAUST, SUPPLY, AND RETURN GRILLE WHERE AN AIR VOLUME HAS BEEN PROVIDED.
- INSTALL BALANCE DAMPERS AS FAR AWAY FROM GRILLES OR DIFFUSERS SERVED AS PRACTICALLY POSSIBLE.
 INSTALL ALL BALANCE DAMPERS IN AN EASILY ACCESSIBLE LOCATION.
- M. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS.
- N. REFER TO CONTROLS SCHEMATICS FOR REQUIREMENTS FOR SENSORS, ACTUATORS AND OTHER CONTROLS COMPONENTS.
- CONTRACTOR SHALL SCAN FOR REBAR AND CONDUIT AND PROVIDE RESULTS OF SCAN IN WRITING TO OWNER PRIOR TO CORING OR DRILLING IN ANY CONCRETE WALL OR FLOOR.

 AT DICT HEATER INTAKE INSTALL A MINIMUM OF 24" STRAIGHT DUCT. INSTALL A
- AT DUCT HEATER INTAKE, INSTALL A MINIMUM OF 24" STRAIGHT DUCT. INSTALL A MINIMUM OF 30" OF DUCT BETWEEN DIFFUSER, GRILLE OR ACCESS DOOR AND DUCT HEATER DISCHARGE. INSTALL HEAT SUCH THAT THERE IS 24" CLEARANCE BETWEEN CONTROL BOX COVER AND ANY OBSTRUCTION.
- Q. FRESH AIR INTAKES SHALL BE A MINIMUM OF 3 METERS FROM ALL EXHAUST DISCHARGES. COMPLETE WITH LOUVER, BACKDRAFT DAMPER AND BIRD SCREEN.

KEY NOTES

- 1 PROVIDE NEW FIRE DAMPER WHERE EXISTING EXHAUST DUCT PASSES INTO SHAFT ABOVE THE
- 2 CONNECT TO EXISTING EXHAUST DUCT.
- NEW LOW LEVEL RETURN FOR FAN COIL. INSTALL BOTTOM OF GRILLE A MINIMUM OF 300MM A.F.F.
 CAP EXISTING DUCT WITHIN WALL. GENERAL CONTRACTOR TO REPAIR OPENING AS PER ARCHITECTURAL REQUIREMENTS.



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BID OPPORTUNITY 878-2021

PAN AM POOL UNIVERSAL CHANGE ROOM 25 POSEIDON BAY

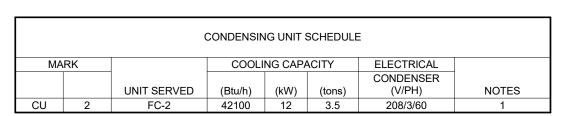
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MAIN FLOOR - HVAC RENOVATION PLAN

Project No. 21085

22-04-26

MH2.2



1. COMPLETE WITH A MINIMUM OF 1 STAGE DIGITAL SCROLL.

DIFFUSER & GRILLES SCHEDULE												
MARK												
		MODEL	NOTES									
S	5	21X21/SMX/B12	1									
R 3		34X14/730/F/L/A/B12	2									
R	4	8X6/730/F/L/A/B12	2									

 DIRECTIONAL DIFFUSER. REFER TO DRAWING FOR FLOW ARROWS FROM DIFFUSERS FOR THE REQUIRED DIRECTIONAL PATTERN.
 STAINLESS STEEL EXHAUST GRILLE.

	FAN COIL SCHEDULE																			
	MAR	RK	SUPPLY AIRFLOW SUPPLY FAN E.S.P.		AN E.S.P.	HEAT II	NPUT	COOLING CAPACITY						MAXIMUM DIMEN	NSIONS (WxDxH)					
			MODEL	ZONE SERVED	(cfm)	(L/s)	(" w.c.)	(Pa)	(Btu/h)	(kW)	(Btu/h)	(kW)	(tons)	(Btu/h)	(kW)	FILTERS	(mm)	(in)	ELECTRICAL	NOTES
FC		2	LE	LOCKEROOM	1200	566	0.75	187	44669.0	13	44669.0	13	3.7	31048.0	9	MERV-8	750x750x1800	30x30x60	120/1/60	1,2

1. ECM DRIVEN BLOWER, DIRECT DRIVE. 2. UNIT IS VERTICAL OREINTATION.

	FAN COIL SOUND POWER SCHEDULE												
MA	MARK MAXIMUM SOUND POWER LEVELS (dB) (DISCHARGE/INLET/RADIATED)												
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz				
FC	2	92/80/70	90/81/68	81/70/60	77/69/51	78/68/54	73/59/50	75/56/34	71/48/30				

									FAN C	COIL - CO	IL SCHEI	DULE						
MA	RK	HEATIN	G COIL		COOLING COIL													
		CAPA	CITY	COOLING CAPACI			ACITY					AIR TEMP	ERATURES					
					TOTAL		SENS	IBLE	Е	DB	E/	NΒ	LI	DВ	LV	VΒ		
		(Btu/h)	(kW)	(Btu/h)	(kW)	(tons)	(Btu/h)	(kW)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	MEDIUM	NOTES
FC	2	44669	13.1	44669	13.1	3.7	31048	9.1	80	27	67	19	56	14	56	14	R-410a	1,2

1. PROVIDE WITH STAINLESS STEEL DRAIN PAN.
2. PROVIDE WITH COATED COIL FOR POOL APPLICATION. REFER TO SPECIFICATIONS. VELOCITY OF COIL NOT TO EXCEED 450 FPM.