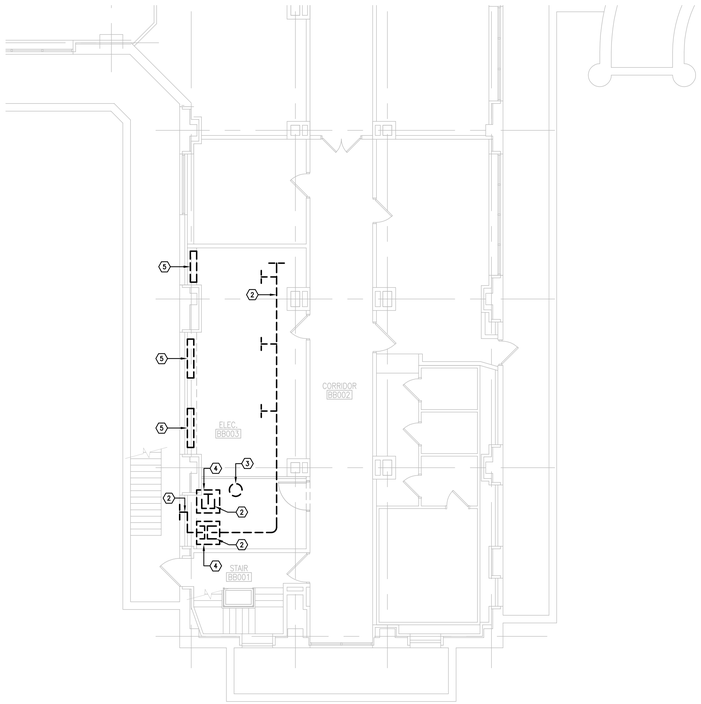
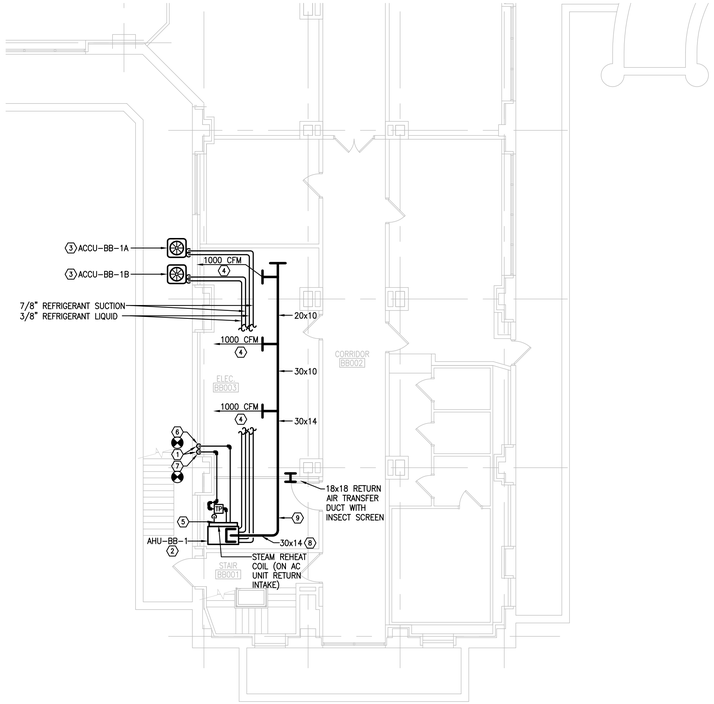


1 PARTIAL BASEMENT - AREA B DEMOLITION PLAN

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

2 DEMOLITION NOTES: ⬡

1. EXISTING TO REMAIN.
2. DISCONNECT AND REMOVE DUCTWORK FROM POINT INDICATED TO AHU.
3. REMOVE HUMIDIFIER, CAP STEAM SUPPLY. REMOVE CONDENSATE PIPING WITHIN ROOM AND CAP.
4. REMOVE EXISTING A/C UNIT. DISCONNECT ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS.
5. DISCONNECT AND REMOVE CONVECTOR. REMOVE PIPING BACK TO ISOLATION VALVE AND CAP.

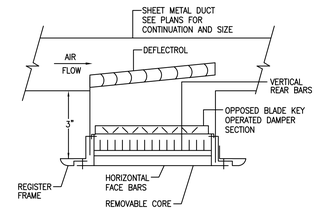


3 PARTIAL BASEMENT - AREA B

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

4 NOTES: ⬡

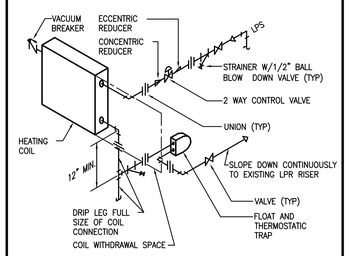
1. EXISTING TO REMAIN.
2. INSTALL VERTICAL AHU ON EXISTING HOUSE-KEEPING PAD. PROVIDE FLOOR STAND TO MAINTAIN TRAP AND CONDENSATE FLOW BY GRAVITY.
3. LOCATE AIR-COOLED CONDENSING UNIT (ACCU) IN AREAWAY ON EQUIPMENT RAILS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES FOR AIRFLOW AND SERVICE.
4. PROVIDE 28x8 DOUBLE DEFLECTION (TYPE 14) SUPPLY DIFFUSER.
5. PROVIDE 3/4" COOLING CONDENSATE DRAIN TO FLOOR DRAIN. TERMINATE WITH 2" AIR GAP.
6. 3/4" LPS FROM EXISTING RISER TO NEW STEAM COIL.
7. 3/4" LPR FROM STEAM COIL WITH TRAP TO EXISTING RISER.
8. PROVIDE FLEX DUCT CONNECTION AT A/C UNIT.
9. PROVIDE NEW 2 INCH WATER GAUGE PRESSURE CLASS DUCT. CONNECT TO EXISTING DUCT. PROVIDE TRANSITION TO EXISTING DUCT. COORDINATE DUCT LOCATION WITH ELECTRICAL EQUIPMENT SERVICE REQUIREMENTS.



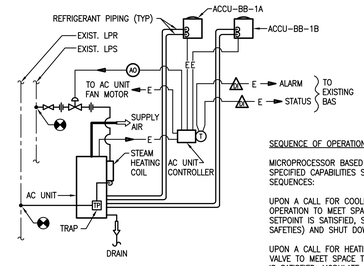
INSTALLATION NOTES:

1. FASTEN EXTENSION DUCT COLLAR TO DUCTWORK WITH SHEET METAL SCREWS.
2. INSTALL REMOVABLE CORE DAMPER ASSEMBLY.

5 TYPE 14 SUPPLY REGISTER / DUCT MOUNTING DETAIL



6 STEAM REHEAT COIL PIPING DETAIL



SEQUENCE OF OPERATION

MICROPROCESSOR BASED BAS CONTROLLER PROVIDED EQUIPPED WITH SPECIFIED CAPABILITIES SHALL PERFORM THE FOLLOWING NOMINAL SEQUENCES:

UPON A CALL FOR COOLING, ENERGIZE UNIT FAN AND STAGE ACCU'S OPERATION TO MEET SPACE TEMPERATURE SENSOR SETPOINT. WHEN SETPOINT IS SATISFIED, STAGE ACCU'S OFF (IN ACCORDANCE WITH UNIT SAFETIES) AND SHUT DOWN FAN MOTOR.

UPON A CALL FOR HEATING, ENERGIZE UNIT FAN AND MODULATE STEAM VALVE TO MEET SPACE TEMPERATURE SENSOR SETPOINT. WHEN SETPOINT IS SATISFIED, MODULATE STEAM VALVE CLOSED (IN ACCORDANCE WITH UNIT SAFETIES) AND SHUT DOWN FAN MOTOR.

CYCLE AIR HANDLING UNIT OPERATION AS REQUIRED TO MEET THE SPACE TEMPERATURE SETPOINT.

ALL CONTROLS TO BE ENERGIZED BY EMERGENCY POWER.

7 AIR CONDITIONING UNIT FLOW AND CONTROL

8 AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	AREA SERVED	SUPPLY FAN DATA									COOLING COIL							HEATING COIL							AIR FILTERS			ELECTRICAL				EMERGENCY POWER	NOTE
		TOTAL CFM	EXT STATIC	FAN RPM	WHEEL DIA.	WHEEL TYPE	CLASS	MOTOR			MAX FACE VEL (FPM)	MAX FINS (PER IN)	MIN ROWS	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL COOLING (MBH)	MAX AIR ΔP (IN WG)	MAX FACE VEL (FPM)	EAT DB (°F)	LAT DB (°F)	TOTAL HEAT (MBH)	MAX AIR ΔP (IN WG)	STEAM		THICKNESS (IN)		MAX FACE VEL (FPM)	V/PH/HZ	MCA	FLA	MOPD		
								BHP	HP	VFD													LBS/HR	OPERATING PSIG	30%	90%							
AHU-BB-1	EXIST.'B'WING ELEC RM	3200	1.0	1106	15	FC	I	1.67	2.0	NO	400	10	3	80/67	60/58	88.6	0.6	400	70	117	164.4	0.1	5	5	YES	NO	700	208/3/60	5.8	6.8	15	YES	1

NOTES: ⬡

1. PROVIDE STEAM HEAT COIL ON RETURN OPENING AND HEAT/COOL TEMPERATURE CONTROL PACKAGE. PROVIDE DUAL CIRCUIT COOLING COIL.

9 EQUIPMENT LIST

1. AIR COOLED CONDENSING UNIT (ACCU-BB-1A, ACCU-BB-1B)

CAPACITY: 50 MBH OUTPUT AT 86°F AMBIENT, 13.0 EER, MATCHING CONDENSING UNITS TO SERVE AHU-BB-1 DUAL CIRCUITED DX COOLING COIL

FEATURES: SINGLE STAGE COMPRESSOR, R-410A REFRIGERANT, FAN GUARDS, INTERNAL ISOLATION, MICROPROCESSOR CONTROLS/PANEL/BAS INTERFACE, HIGH AND LOW PRESSURE CONTROLS, HOT GAS BYPASS

ELECTRICAL: 208/3/60, AMPACITY: 15.5A, MOPD 25A

10 GENERAL NOTE

1. ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES.

KEY PLAN
SCALE: NONE

N

Revisions	Date
1 PRE-BID REVISION	04/02/10
2 CONSTRUCTION DOCUMENTS	05/14/12

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CARDIOLOGY MANAGER	DATE	ENGINEERING MANAGER	DATE
INFECTION CONTROL	DATE	CARELINE MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE

Drawing Title: PARTIAL BASEMENT AREA B FLOOR PLAN

MEDICAL CENTER DIRECTOR DATE

ASSOCIATE MEDICAL CENTER DIRECTOR DATE

Project Title: CRITICAL ELECTRICAL SYSTEM EXPANSION – WINGS B AND C

Building Number: BLDG. #1 | Checked: JFB | Drawn: DAM

Location: V.A.M.C. BUFFALO, NEW YORK

Date: September 14, 2012

Station No.: 528-P-0168

12-104-M101

Office of Facilities

Department of Veterans Affairs