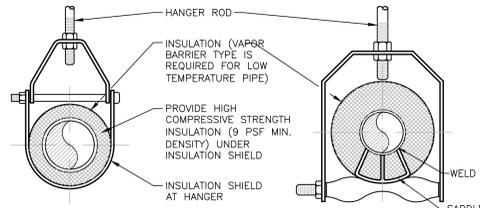
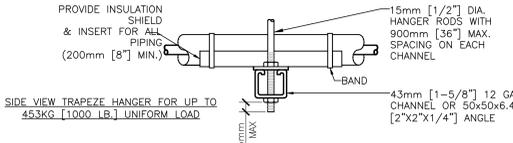


- NOTES:
- 1/3 CONTROL VALVE
  - MANUAL BYPASS VALVE
  - 2/3 CONTROL VALVE



ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS  
ADJUSTABLE CLEVIS HANGER TYPE 43 - SEE SPECIFICATIONS

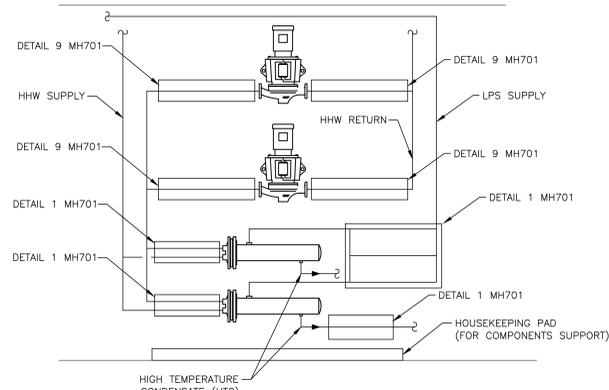


MAXIMUM PIPE/TUBING SUPPORT SPACING

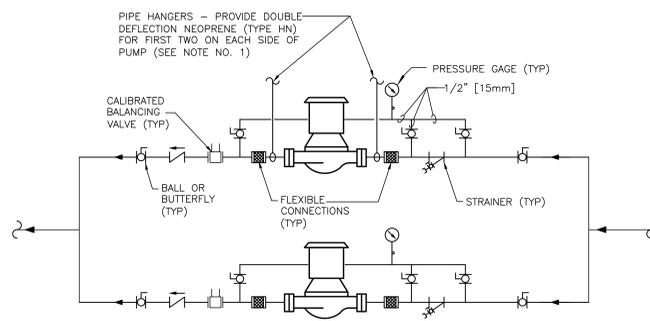
NOM. SIZE	mm [IN]	THRU 20 [THRU 3/4]	25 [1]	32 [1 1/4]	40 [1 1/2]	50 [2]	65 [2 1/2]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]
PIPE	mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4800 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]
TUBING	mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]	-	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

7 PIPE HANGERS

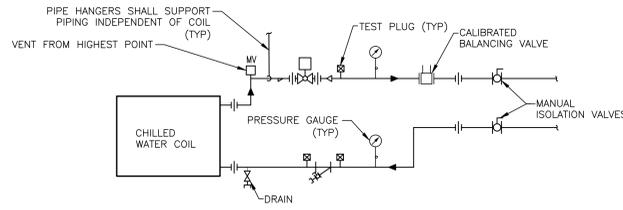


8 HEATING HOT WATER SYSTEM PIPING CONNECTIONS



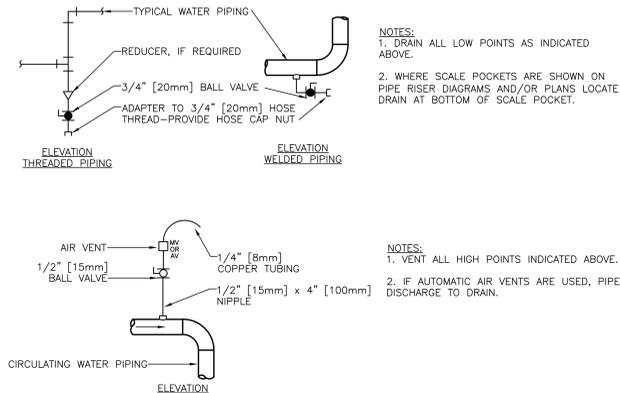
- NOTES:
- PUMPS SHALL BE SUPPORTED INDEPENDENT OF PIPING
  - PROVIDE A MINIMUM OF 10 PIPE DIAMETERS INLET TO PUMP OR PROVIDE SUCTION DIFFUSERS

9 IN-LINE HYDRONIC PUMPS PIPING CONNECTIONS



- NOTES:
- WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE, TYPE "H" FOR 100mm [4"] PIPE & SMALLER, TYPE "H+P" FOR 125mm [5"] PIPE & LARGER.
  - PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.

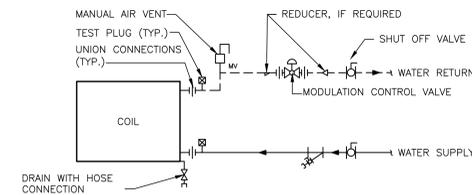
4 CHILLED WATER COIL PIPING CONNECTIONS



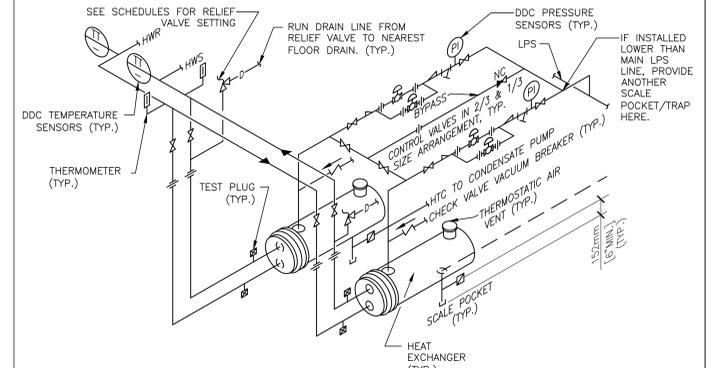
- NOTES:
- DRAIN ALL LOW POINTS AS INDICATED ABOVE.
  - WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

- NOTES:
- VENT ALL HIGH POINTS INDICATED ABOVE.
  - IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

5 HYDRONIC DRAIN VALVE AND VENT CONNECTIONS

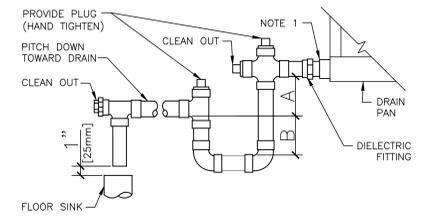


6 AIR TERMINAL UNIT REHEAT COIL PIPING CONNECTIONS



- NOTES:
- THE ABOVE DETAIL SHOWS REQUIRED PIPING FOR TWO HEAT EXCHANGERS IN PARALLEL. INDICATE IF 100% REDUNDANT OR NOT.
  - PROVIDE SADDLE SUPPORTS AND LEGS OR HANGERS FOR HEAT EXCHANGER. MOUNTING HEIGHT SHALL BE ADJUSTED TO FACILITATE GRAVITY RETURN OF STEAM CONDENSATE.
  - THE BYPASS SHALL BE SIZED TO FLOW THE 2/3 CONTROL VALVES CAPACITY.
  - CONTROL VALVES SHALL BE IN A 1/3 AND A 2/3 FLOW SIZE ARRANGEMENT.

1 HHW HEAT EXCHANGER PIPING CONNECTIONS

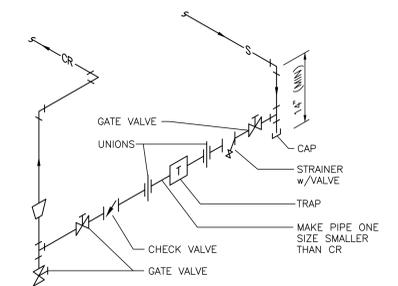


- NOTE:
- DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE NIPPLE ON THE DRAIN PAN. PIPING SHALL BE RIGID COPPER TYPE L OR TYPE M.
  - DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.
  - ENSURE CLEAR ACCESS FOR CLEAN OUTS.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

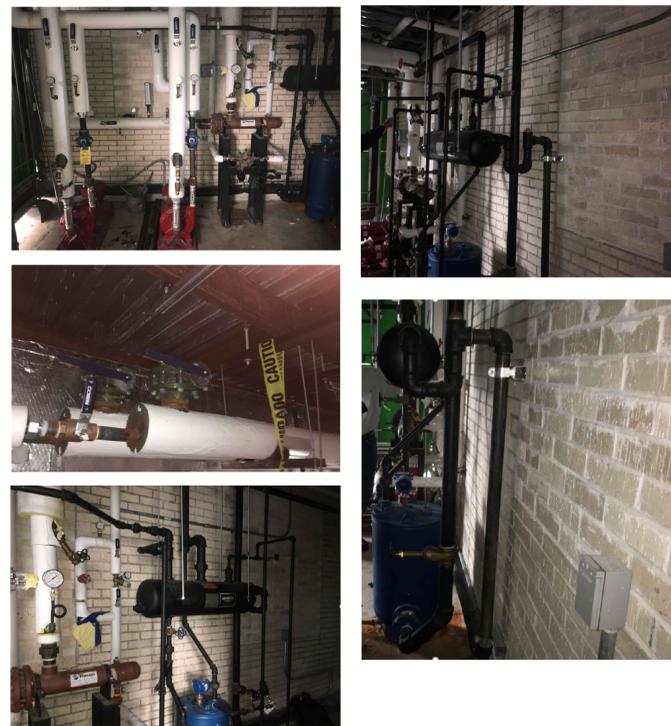
WHERE X = STATIC PRESSURE IN PAN

2 AIR HANDLING UNIT COIL CONDENSATE TRAP



3 END OF MAIN STEAM TRAP DETAIL

10 HEATING HOT WATER SYSTEM FLOW DIAGRAM



11 MISC EXISTING CONDITIONS OF STEAM / HHW MECH ROOM

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AKEA Project No. 094-14

Drawing Title  
**MECHANICAL DETAILS**

Approved: Project Director

Project Title  
**RENOVATE WARD 3C FOR  
CARDIOLOGY EQUIPMENT  
INSTALLATION**

Location  
**GAINESVILLE, FLORIDA**

Date  
MARCH 9, 2018

Checked  
MGH

Drawn  
MGH

Project Number  
573-CSI-102

Building Number  
1

Drawing Number  
**MH701**

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Office of  
Construction  
and Facilities  
Management

