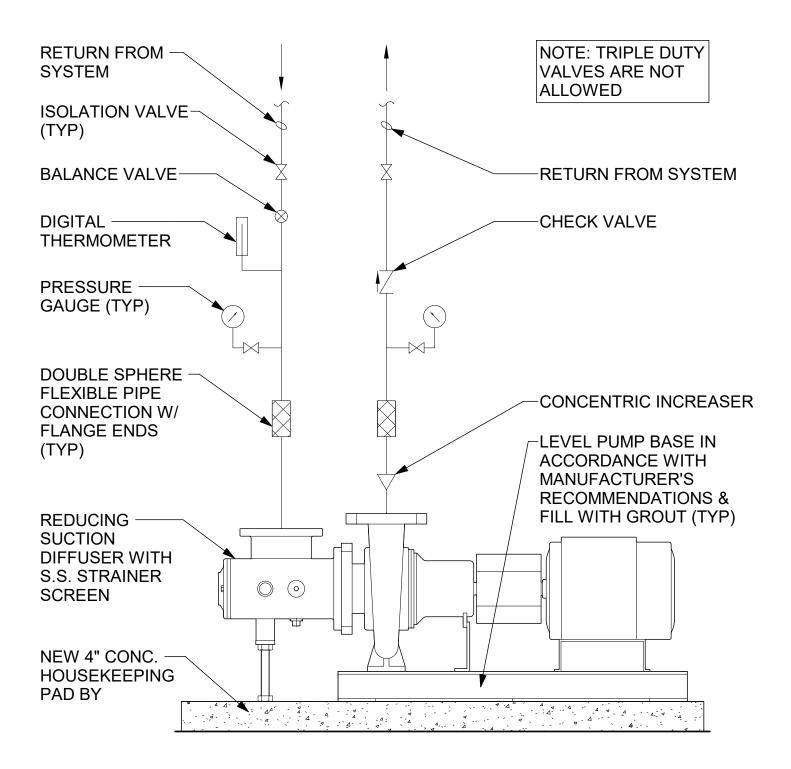


## **ILLINOIS STATE UNIVERSITY EXHIBIT FS-23.2: MECHANICAL DETAILS** Effective February 1, 2022

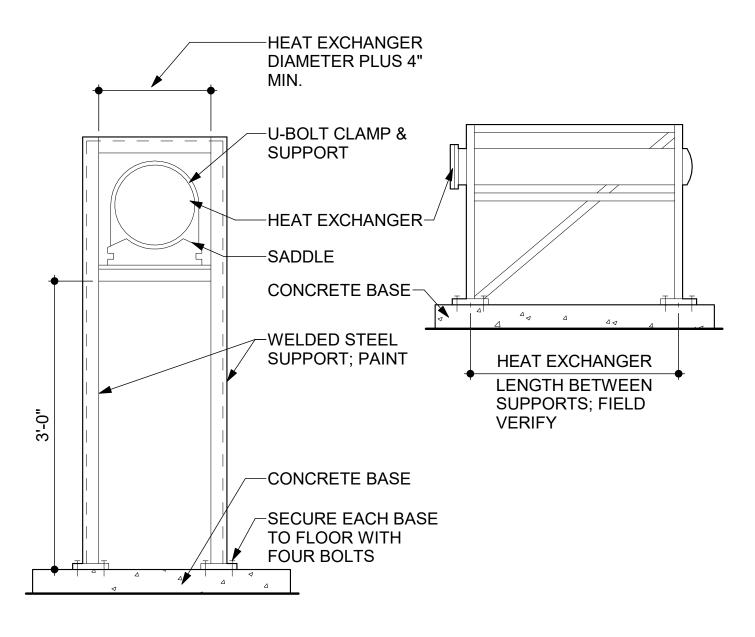
I. <u>DETAILS</u>

- A. See the *Illinois State University Design Guidelines* and the *Illinois State University Facilities Standards* for additional information.
- B. The following mechanical details have been included:
  - 1. Detail 1/M1: End Suction Centrifugal Pump Piping Detail
  - 2. Detail 1/M2: Heat Exchanger Support Detail
  - 3. Detail 1/M3: Steam to Hot Water Heat Exchanger Piping Dtl.
  - 4. Detail 1/M4: Hot Water Reheat Coil Piping Detail (2-Way)
  - 5. Detail 1/M5: Chilled Water Cooling Coil Piping Detail (AHU)
  - 6. Detail 1/M6: Make-Up Water / Expansion Tank Detail
  - 7. Detail 1/M7: Condensate Drain Piping Detail (AHU)
  - 8. Detail 1/M8: Pot Feeder / Side Stream Filter Piping Detail



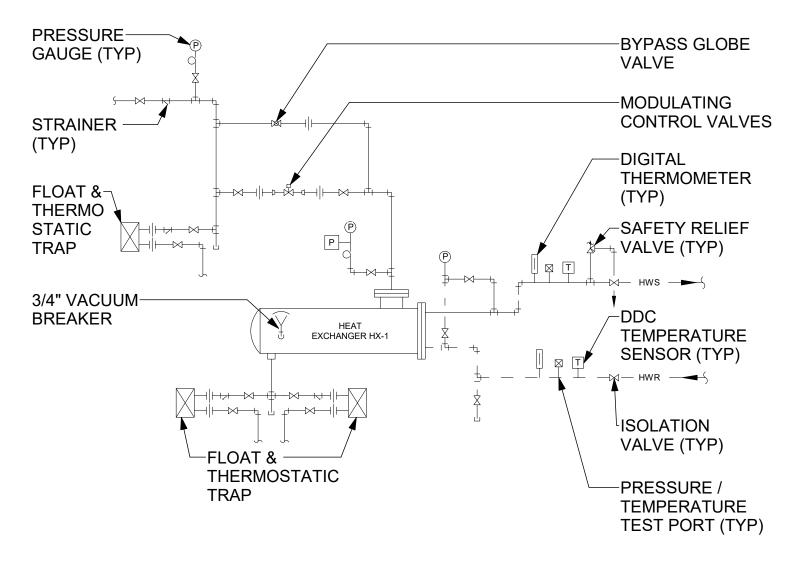


FACILITIES PLANNING AND CONSTRUCTION Illinois State University 10 South Fell. Suite 102 · Normal. IL 6170-3390 · (309) 438-8606	END SUCTION CENTRIFUGAL PUMP PIPING DETAIL	PROJECT NO. Exhibit FS-23.2 SHEET	DATE
	ISU FACILITIES STANDARDS	M1	
	Normal, IL 61761		





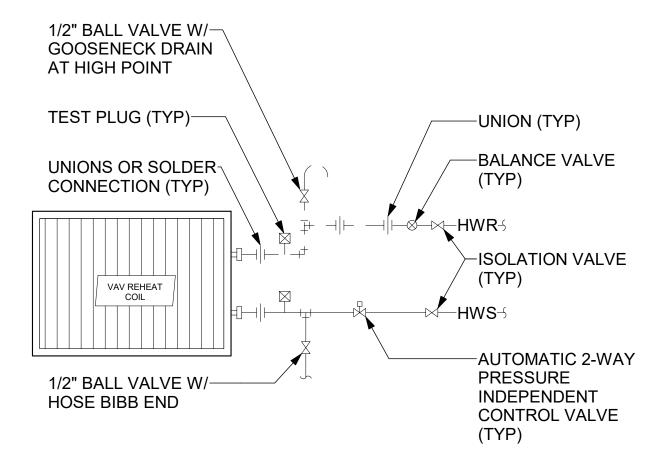




1 M3

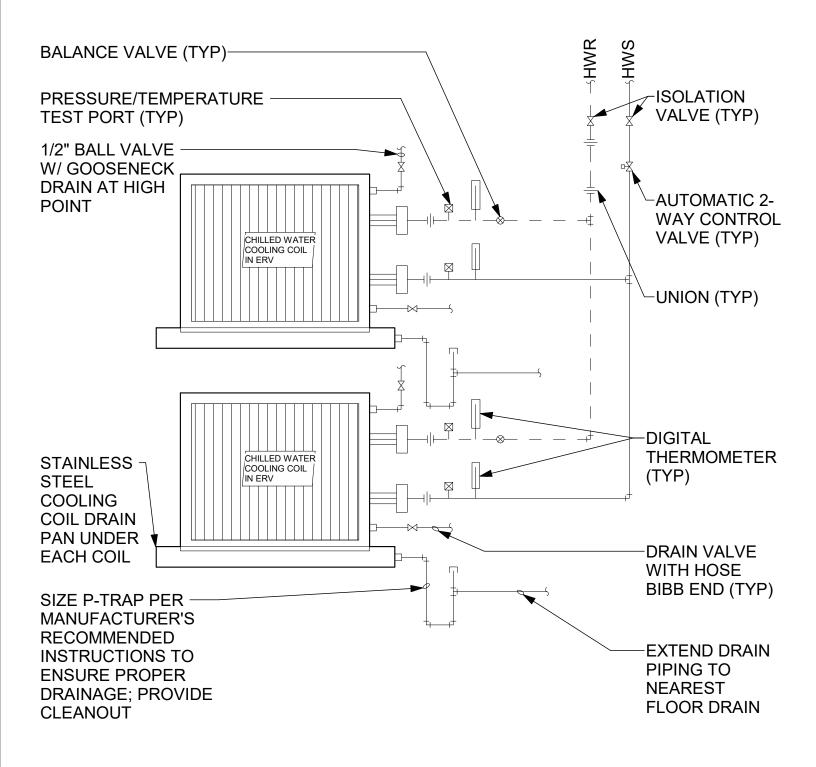
STEAM TO HOT WATER HEAT EXCHANGER PIPING DTL. NOT TO SCALE







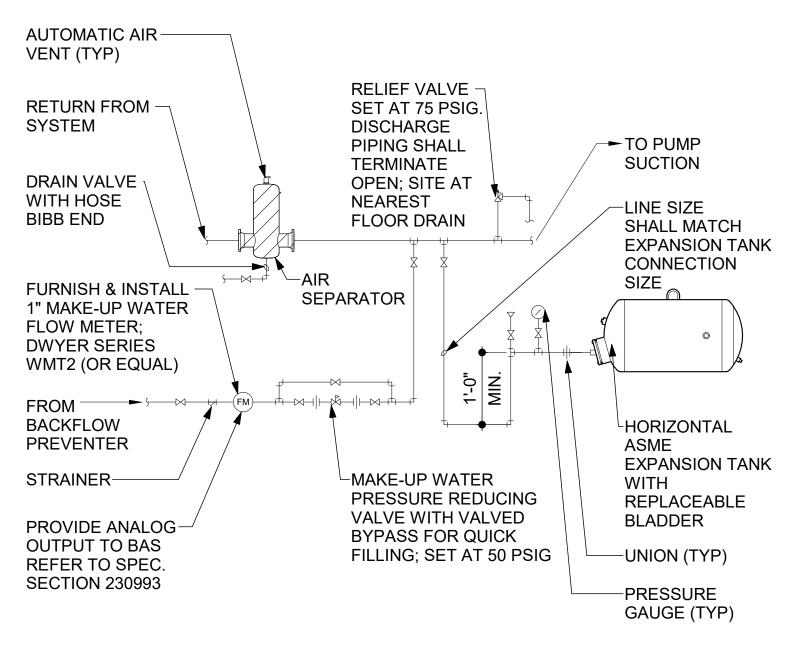
FACILITIES PLANNING AND CONSTRUCTION Illinois State Unitversity 100 South Fell, Suite 102 · Normal, IL 61790-3390 • (309) 438-8606	HOT WATER REHEAT COIL PIPING DETAIL (2-WAY)	PROJECT NO. Exhibit FS-23.2 SHEET	DATE
	ISU FACILITIES STANDARDS	M4	
	Normal, IL 61761		



## CHILLED WATER COOLING COIL PIPING DETAIL (AHU) 1 M5

NOT TO SCALE

RACILITIES PLANNING AND CONSTRUCTION Illinois State University 100 South Fell, Suite 102 · Normal, IL 61790-3390 · (309) 438-8606	CHILLED WATER COOLING COIL PIPING DETAIL (AHU)	PROJECT NO. Exhibit FS-23.2 SHEET	DATE
	ISU FACILITIES STANDARDS	M5	
	Normal, IL 61761		



## MAKE-UP WATER / EXPANSION TANK DETAIL 1 M6

NOT TO SCALE

FACILITIES PLANNING AND CONSTRUCTION Ilinois State University 100 South Fell, Suite 102 • Normal, IL 61790-3390 • (309) 438-8606	MAKE-UP WATER / EXPANSION TANK DETAIL	PROJECT NO. Exhibit FS-23.2 SHEET	DATE
	ISU FACILITIES STANDARDS	M6	
	Normal, IL 61761		

## NOTE:

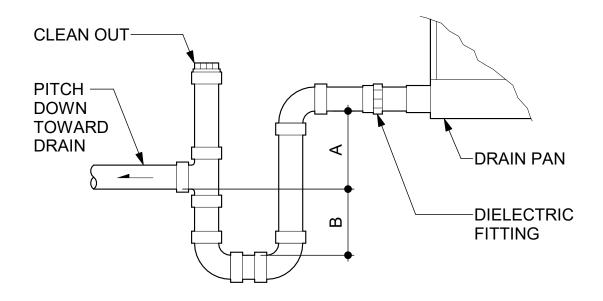
1. DRAIN LINE SIZING SHALL BE AT LEAST THE SAME SIZE AS THE NPPLE ON THE DRAIN PAN. PIPING SHALL BE RIGID COPPER TYPE "L" OR "M" UNLESS NOTED OTHERWISE.

2. DIELECTRIC FITTING TO BE USED WHEN TWO DIFFERENT METALS ARE TO BE CONNECTED.

3. PROVIDE 1" AIR GAP AND FLOOR DRAIN OR FLOOR SINK.

UNIT TYPE	Α	В
DRAW THRU	2" PLUS X	Х
<b>BLOW THRU</b>	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN





AND CONSTRUCTION	CONDENSATE DRAIN PIPING DETAIL	PROJECT NO. Exhibit FS-23.2	DATE
Illinois State University   100 South Fell, Suite 102 • Normal, IL 61790-3390 • (309) 438-8606		SHEET	
	ISU FACILITIES STANDARDS Normal, IL 61761	M7	

