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PROFESSIONAL SEAL

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**ESTERLY & SCHNEIDER ASSOCIATES, INC.**  
AIA architects & planners

COMM. # 4092

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
PUBLIC SAFETY,  
MISSOURI VETERANS  
COMMISSION

HVAC REPLACEMENT  
PROJECT

MISSOURI VETERANS  
HOME

620 N. JEFFERSON  
ST. JAMES, MO 65559

PROJECT # U1503-03  
FAI # 29-051  
SITE # 4700  
FACILITY # 55019

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10-27-17

CAD DWG FILE: M-501.DWG  
DRAWN BY: JMO  
CHECKED BY: CCK  
DESIGNED BY: JMO

SHEET TITLE:

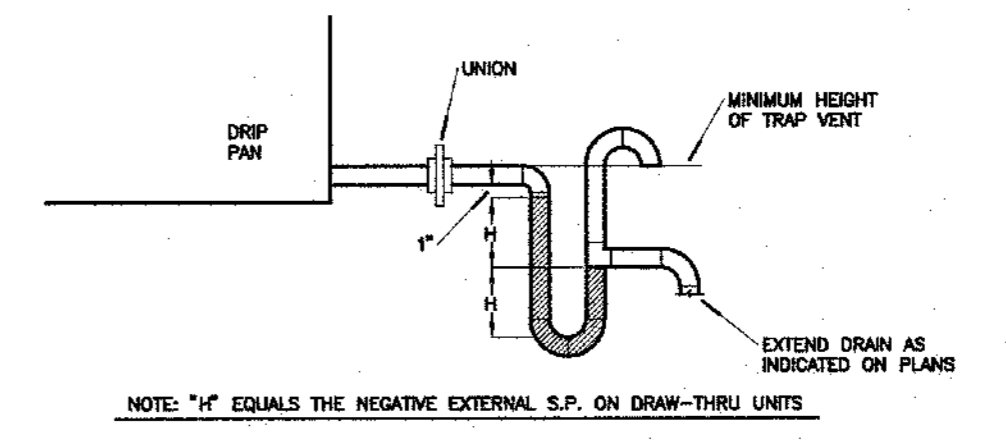
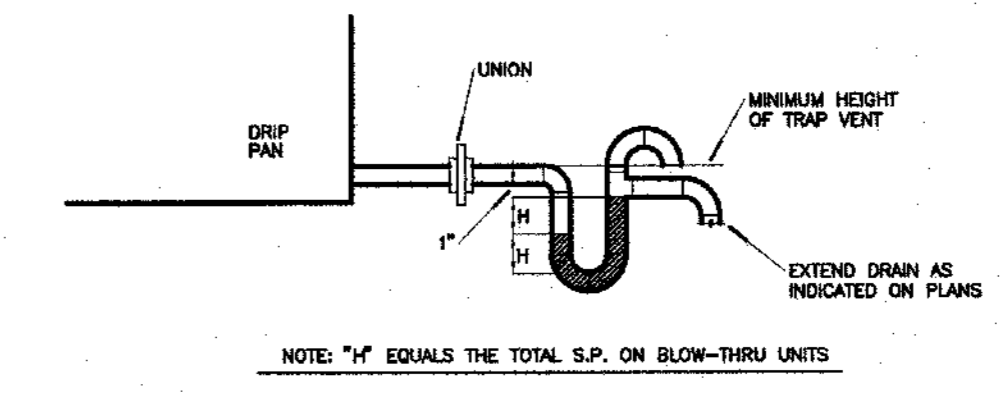
**MECHANICAL  
DETAILS**

SHEET NUMBER:

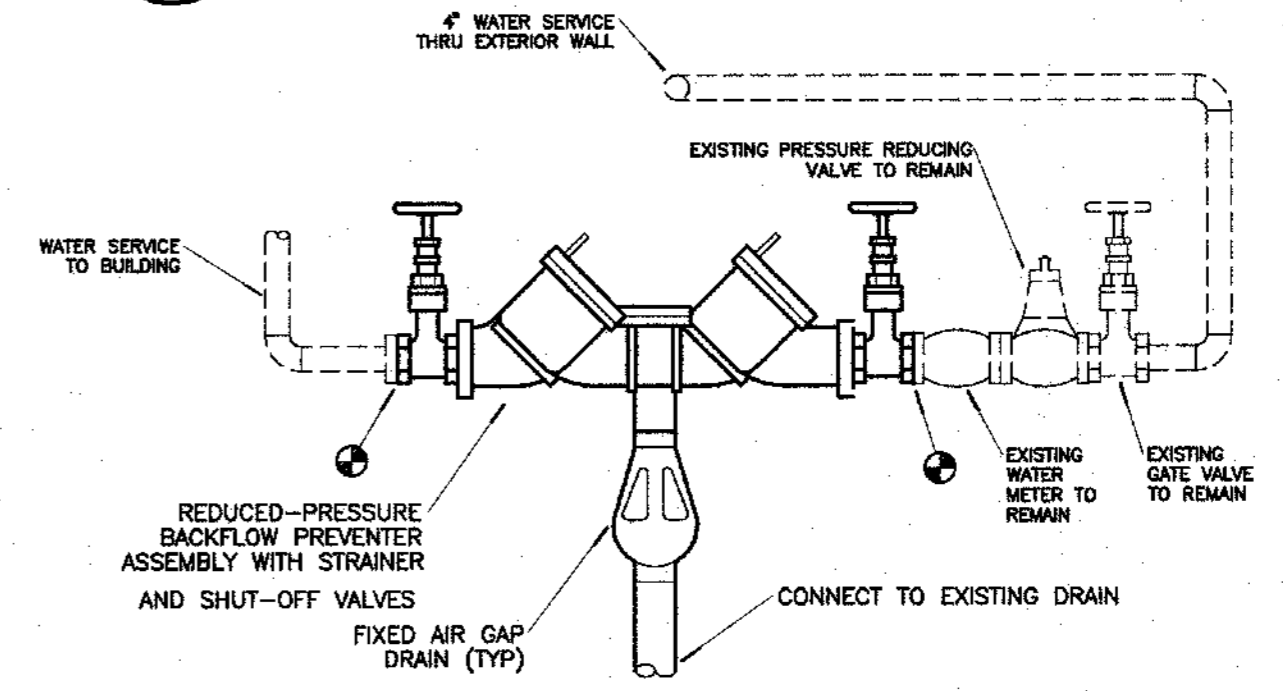
**M-501**

28 OF 41 SHEETS

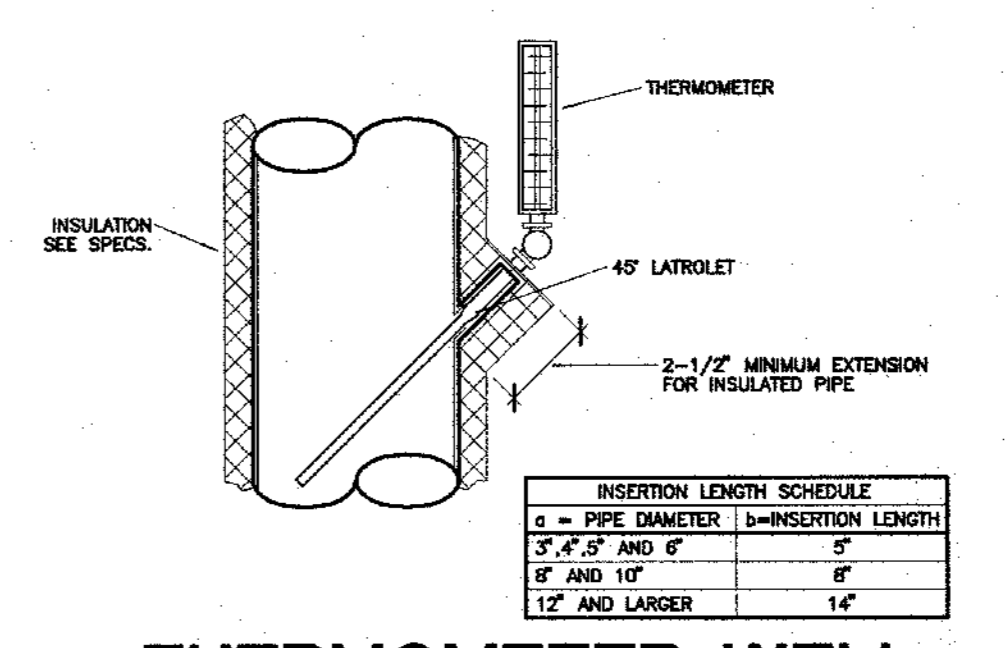
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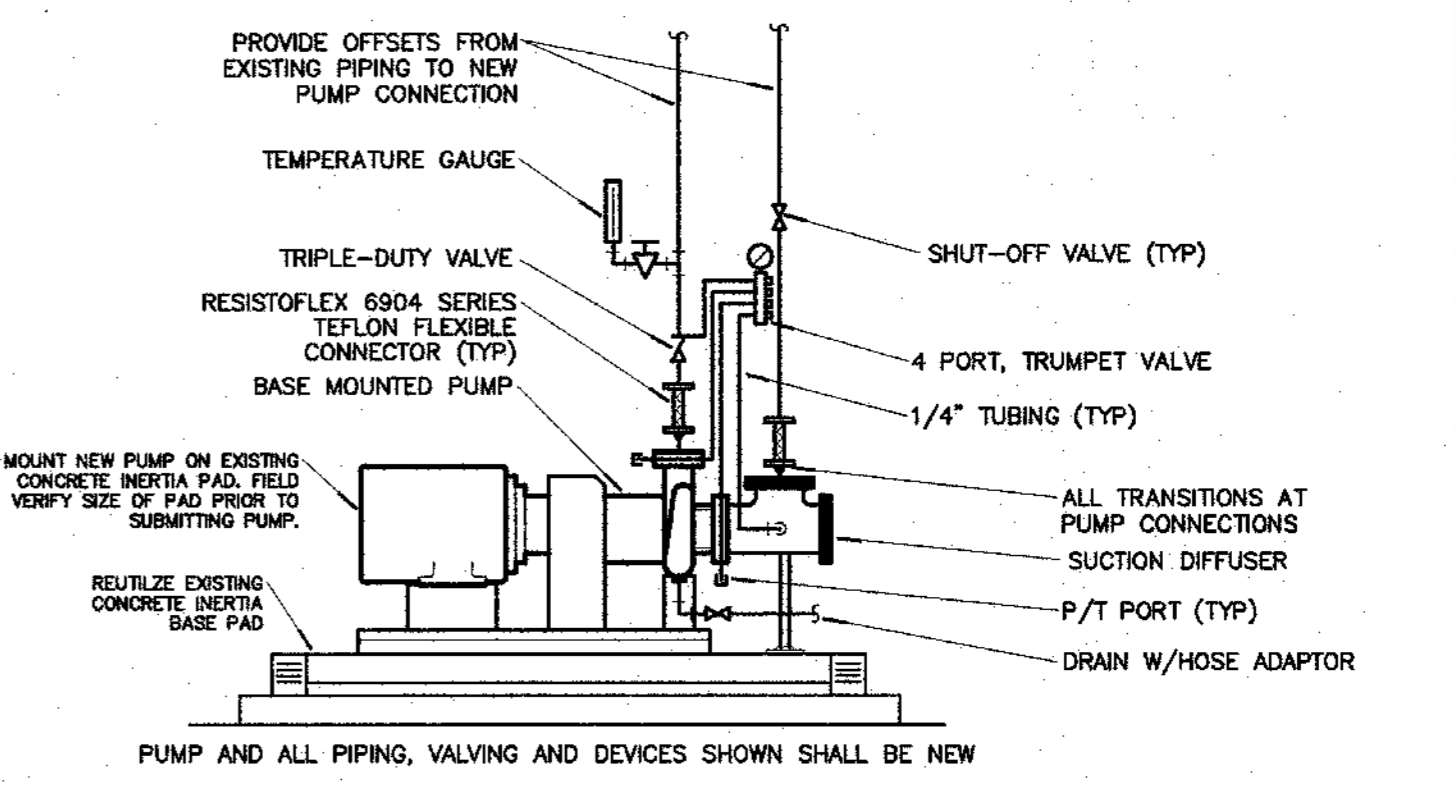
**4 CONDENSATE DRAIN PIPING SCHEMATIC**  
NO SCALE



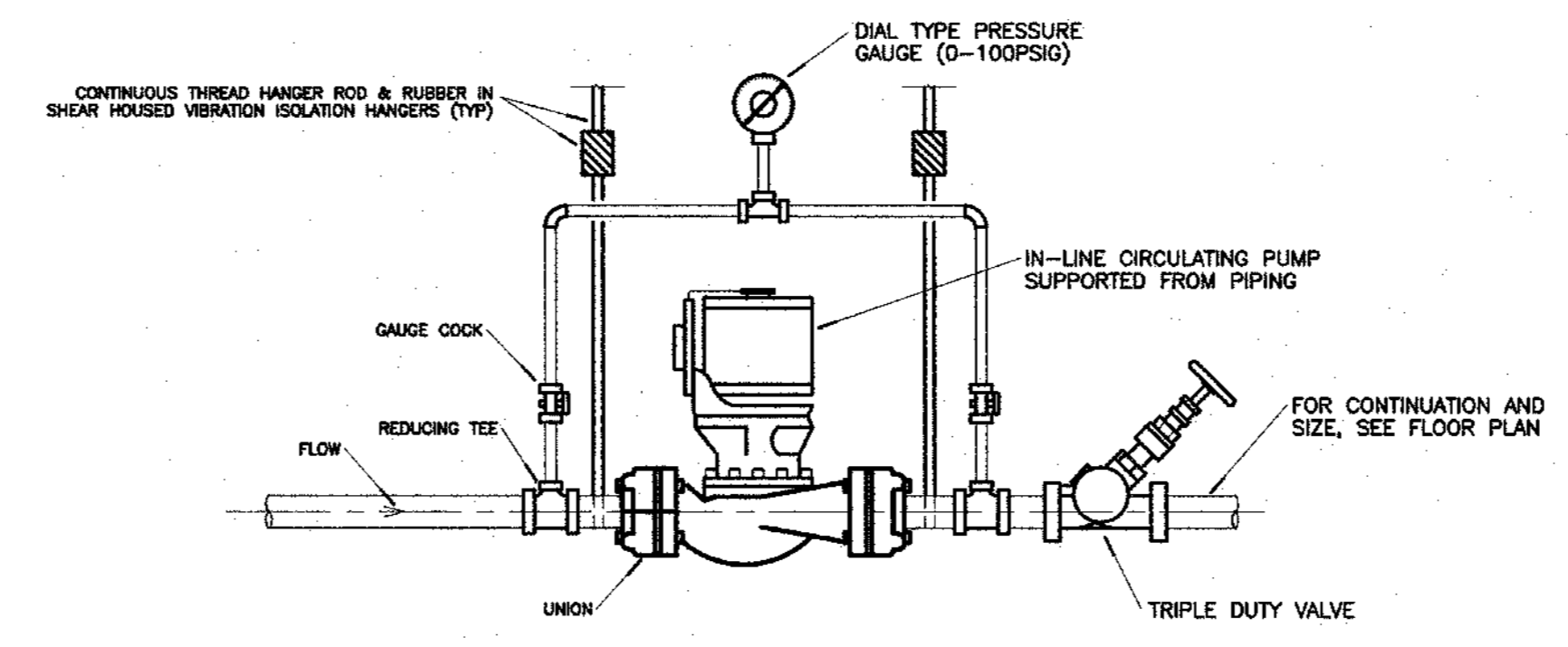
**3 REDUCED PRESSURE TYPE BFP WATER SERVICE ENTRANCE**  
NO SCALE



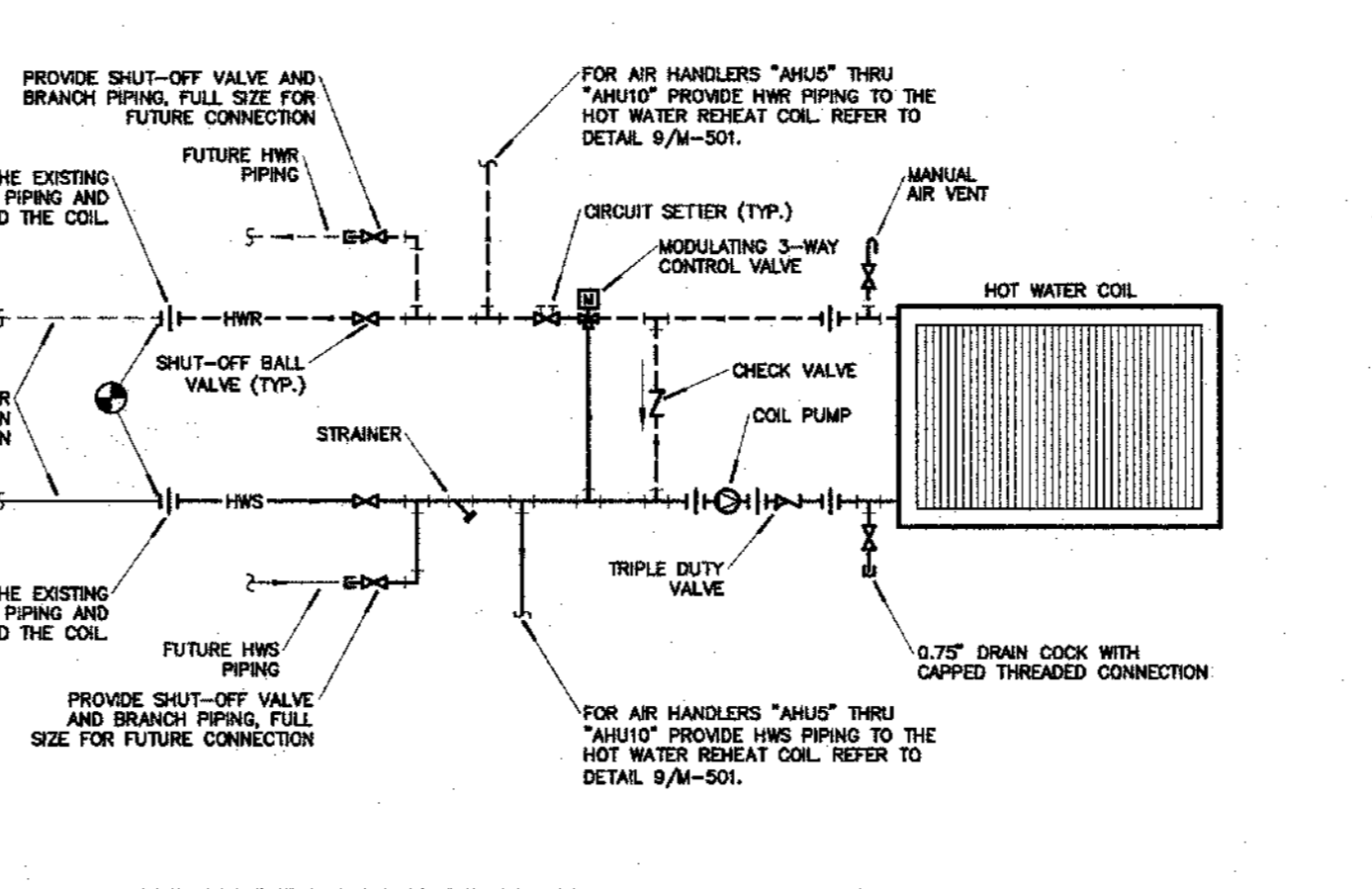
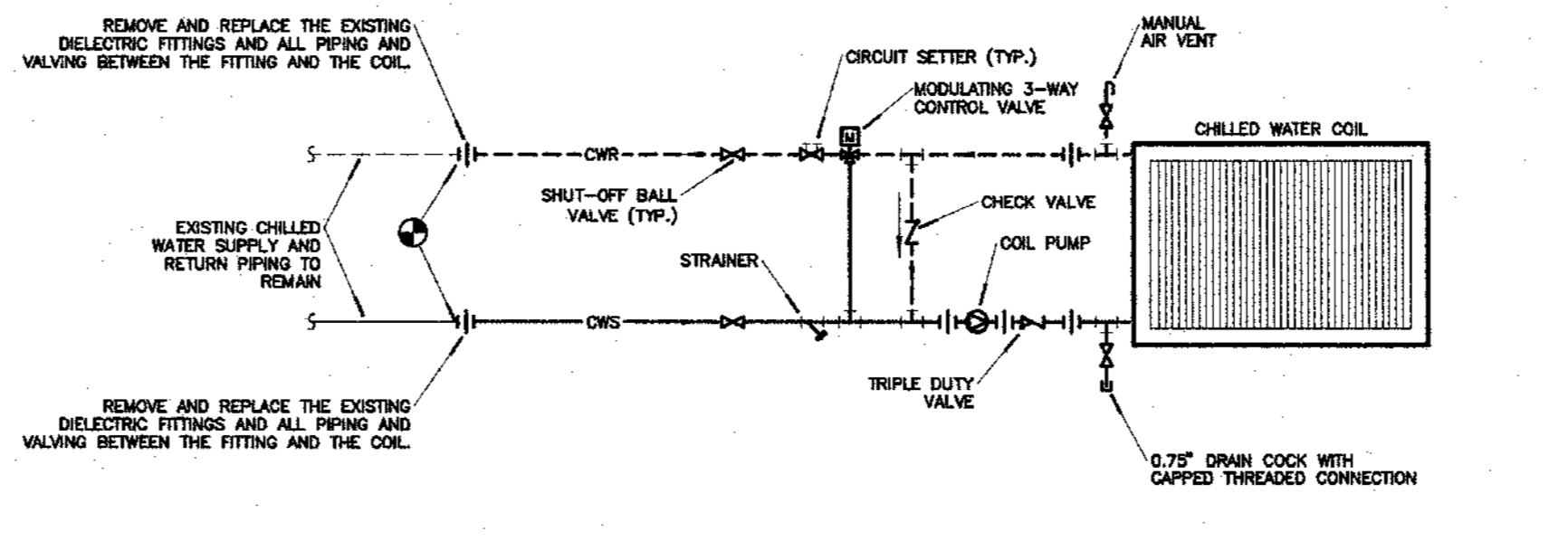
**2 THERMOMETER WELL IN VERTICAL PIPE DETAIL**  
NO SCALE



**1 BASE MOUNTED PUMP DETAIL**  
NO SCALE

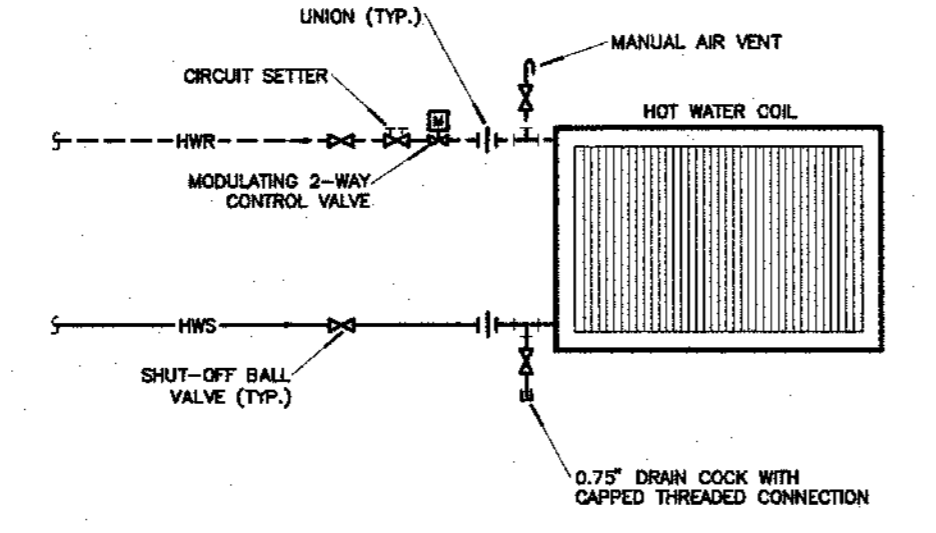


**6 IN-LINE PUMP DETAIL**  
NO SCALE

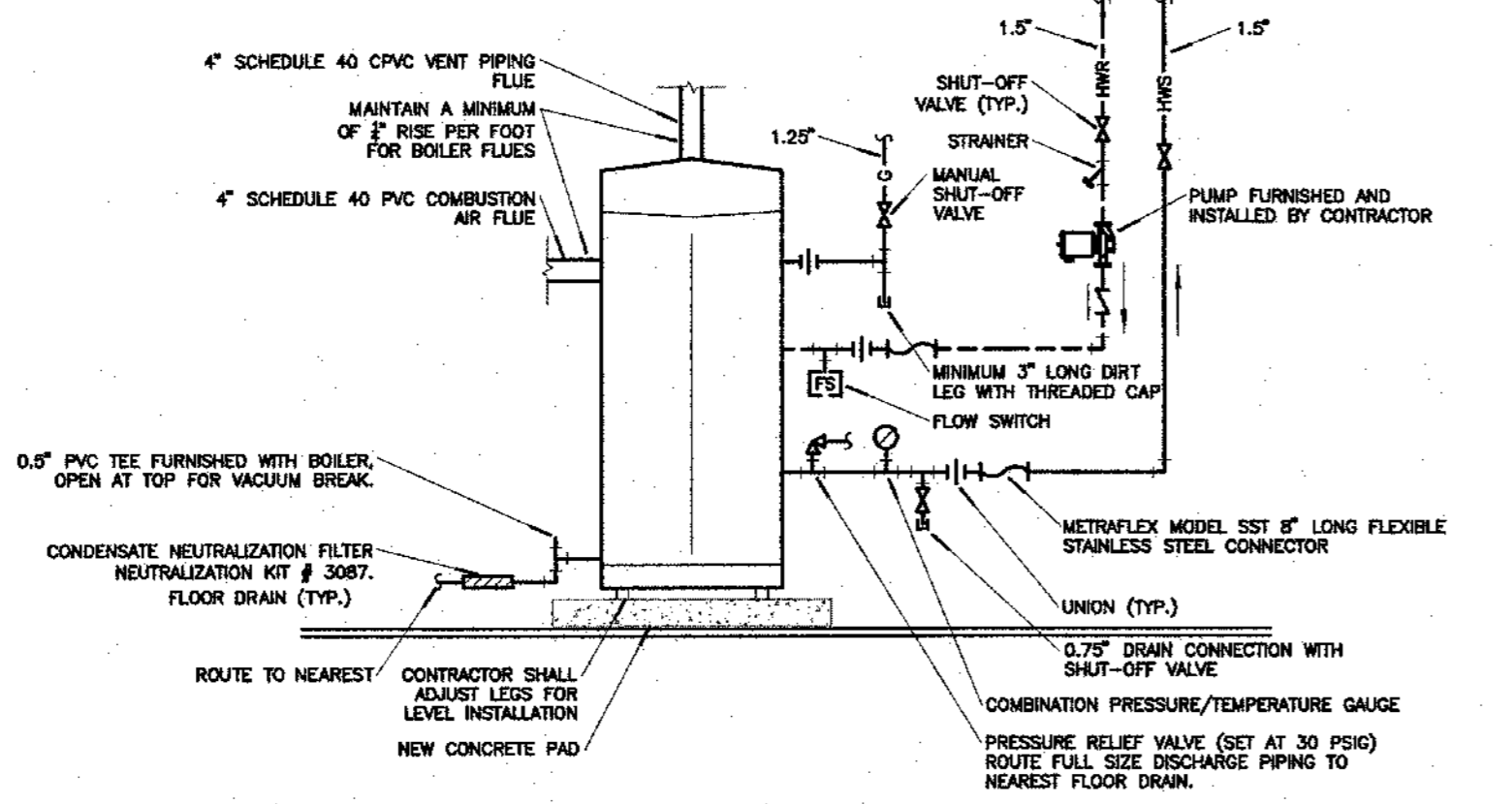


NOTES:  
1. REFER TO AIR HANDLER AND MAU SCHEDULE FOR 2-WAY VERSUS 3-WAY MODULATING VALVE.  
2. ALL EXISTING AND NEW AIR HANDLERS AND "MAU2" SHALL HAVE THE EXISTING PIPING REPLACED TO MEET THIS DETAIL.  
3. ALL DRYPIPE PIPING SHALL BE FULL LINE SIZE.  
4. CONTRACTOR SHALL FIELD MEASURE EXISTING SPACE PRIOR TO SUBMITTAL OF THE AIR HANDLERS TO VERIFY THAT ALL PIPING, VALVING AND PUMPS WILL FIT IN THE EXISTING MECHANICAL ROOM WITH NEW AIR HANDLER BEING SUBMITTED. PIPING, VALVES AND PUMPS SHALL BE INSTALLED TO ALLOW FULL ACCESS TO THE AIR HANDLER PER MANUFACTURER'S RECOMMENDATIONS AND TO ALLOW FOR REMOVAL OF COILS WITHOUT HAVING TO SHUT DOWN THE BUILDING PRIMARY PUMPS. SUBMIT ANY CONFLICTS OR DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING AIR HANDLERS.

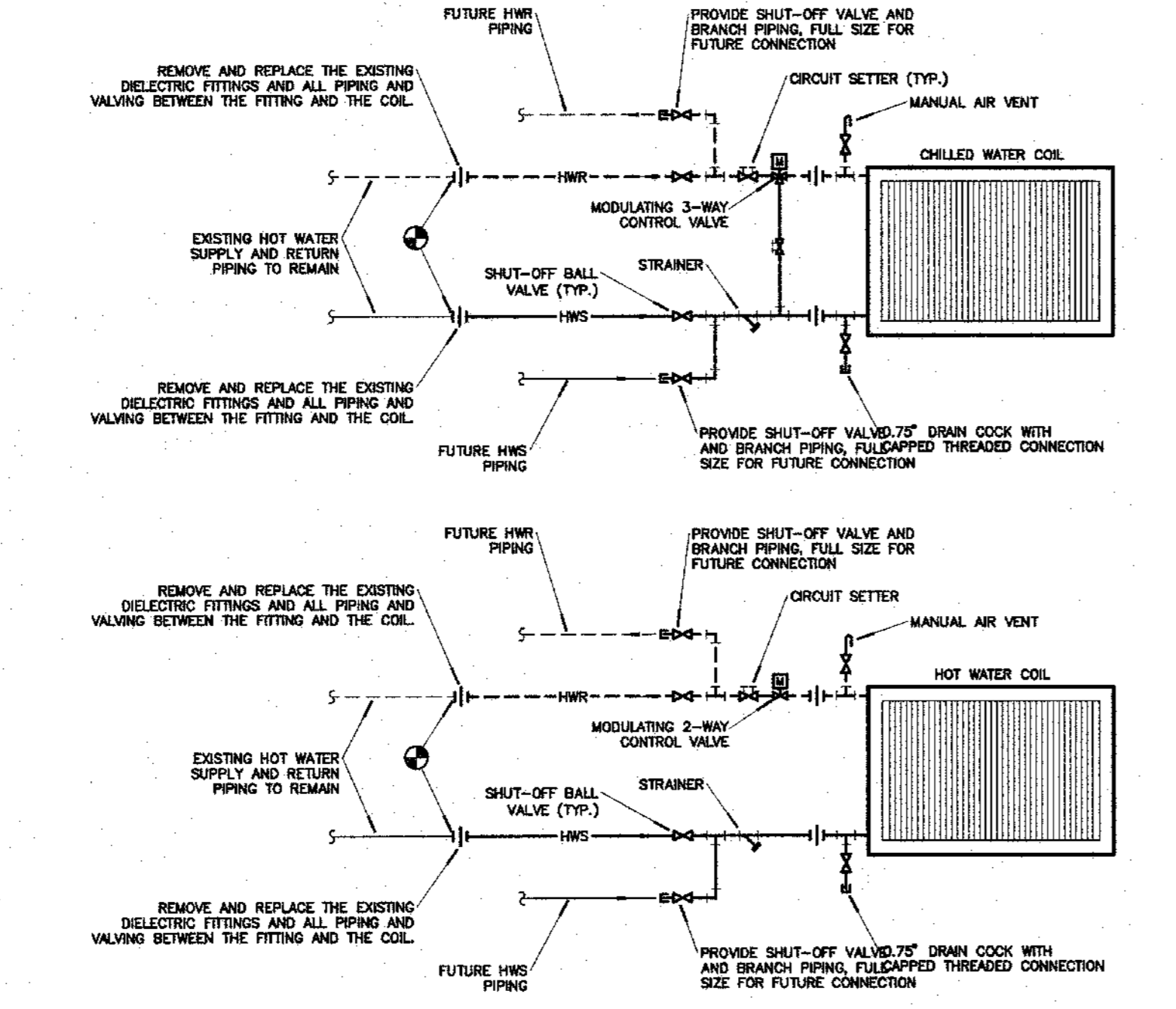
**5 AHU AND 'MAU2' HOT WATER COIL PIPING DIAGRAMS**  
NO SCALE



**9 HW REHEAT COIL - (AHU 5 - 10) PIPING DIAGRAM**  
NO SCALE



**8 WATER HEATER 'WH' BOILER DETAIL**  
NO SCALE



**7 FAN COIL UNIT COIL PIPING DIAGRAMS**  
NO SCALE

REVISED BY: JMO/SPH/M-501 28 DEC 2017 - 2:40 PM