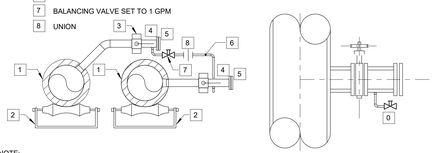
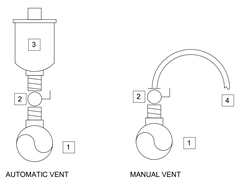
1. PIPE
2. HANGER/SUPPORT AS SPECIFIED
3. VALVE (TYPICAL)
4. 6" SPOOL PIECE
5. BLIND FLANGE
6. 3/4" PIPING
7. BALANCING VALVE SET TO 1 GPM
8. UNION



NOTE:
ALL VALVED FUTURE CONNECTIONS SHALL HAVE A SPOOL PIECE AND BLIND FLANGE.

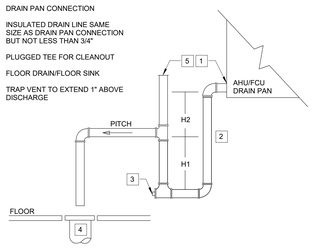
6 FUTURE PIPING / DEAD LEG CONNECTIONS
N.T.S.

1. PIPING HIGH POINT
2. BALL VALVE
3. AUTOMATIC AIR VENT
4. COILED FLEXIBLE TUBING - 1'-0" MINIMUM



5 AIR VENT DETAIL
N.T.S.

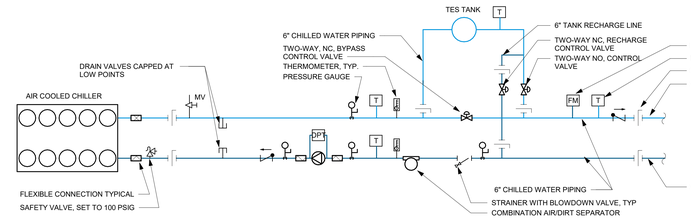
1. DRAIN PAN CONNECTION
2. INSULATED DRAIN LINE SAME SIZE AS DRAIN PAN CONNECTION BUT NOT LESS THAN 3/4"
3. PLUGGED TEE FOR CLEANOUT
4. FLOOR DRAIN/FLOOR SINK
5. TRAP VENT TO EXTEND 1" ABOVE DISCHARGE



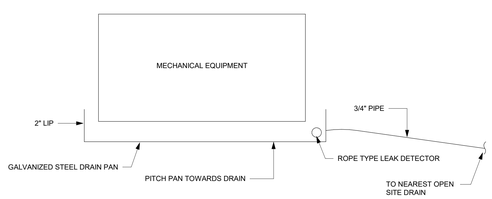
NOTES:

1. ALL TRAP SIZES PER MANUFACTURER (NOT LESS THAN 3/4").
2. FOR DRAW THROUGH UNITS:
   H1 = FAN SUCTION STATIC PRESSURE
   H2 = FAN SUCTION STATIC PRESSURE + 1"
3. FOR BLOW THROUGH UNITS:
   H1 = FAN DISCHARGE STATIC PRESSURE + 1"
   H2 = MINIMUM OF 1"

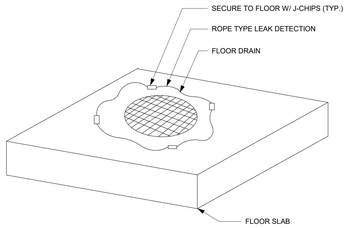
7 CONDENSATE DRAIN DETAIL
N.T.S.



11 CHILLER LINE-UP PIPING DETAIL
N.T.S.



1 DRAIN PAN DETAIL
N.T.S.



NOTE:

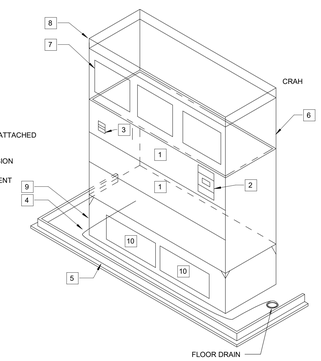
ROPE TYPE LEAK DETECTION SHALL BE TIED TO THE NEAREST LEAK DETECTION PANEL.

10 FLOOR DRAIN LEAK DETECTION DETAIL
N.T.S.

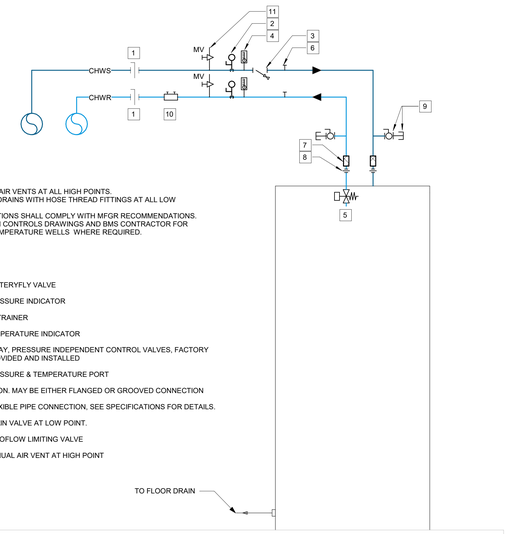
KEYED NOTES:

1. ACCESS PANEL FOR COIL CONTROL VALVE AND FACTORY PROVIDED ACCESSORIES.
2. MICRO PROCESSOR CONTROL PANEL
3. UNIT DISCONNECT
4. LEAK DETECTION SENSOR, PROVIDED BY MANUFACTURER
5. CONTAINMENT ANGLES, 2"x2" AROUND UNIT AND ATTACHED WATER TIGHT TO FLOOR
6. FACTORY RETURN AIR PLENUM HOUSING EXTENSION
7. HINGED, ACCESS DOORS FOR FILTER REPLACEMENT
8. RETURN AIR SHEET METAL DUCTWORK EXTENSION TO WITHIN 2' OF STRUCTURE OR AT 12' A.F.F., WHICHEVER IS LOWER.
9. FLOORSTAND, UNIT TO BE SELF SUPPORTING ON GRADE.
10. FRONT DISCHARGE GRILLES

NOTE:
PROVIDE MINIMUM CLEARANCES RECOMMENDED BY MANUFACTURER



2 CRAH DETAIL
N.T.S.



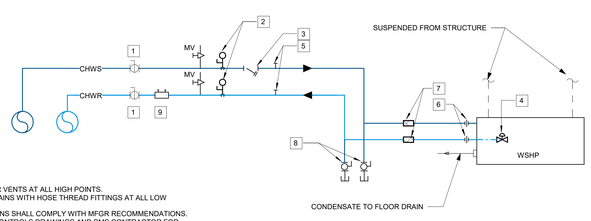
NOTES:

1. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS.
2. PROVIDE VALVED DRAINS WITH HOSE THREAD FITTINGS AT ALL LOW POINTS.
3. ALL COIL CONNECTIONS SHALL COMPLY WITH MFGR RECOMMENDATIONS.
4. COORDINATE WITH CONTROLS DRAWINGS AND BMS CONTRACTOR FOR INSTALLATION OF TEMPERATURE WELLS WHERE REQUIRED.

NOTES:

1. BUTTERYFLY VALVE
2. PRESSURE INDICATOR
3. Y-STRAINER
4. TEMPERATURE INDICATOR
5. 2-WAY, PRESSURE INDEPENDENT CONTROL VALVES, FACTORY PROVIDED AND INSTALLED
6. PRESSURE & TEMPERATURE PORT
7. UNION. MAY BE EITHER FLANGED OR GROOVED CONNECTION
8. FLEXIBLE PIPE CONNECTION, SEE SPECIFICATIONS FOR DETAILS.
9. DRAIN VALVE AT LOW POINT.
10. AUTOFLOW LIMITING VALVE
11. MANUAL AIR VENT AT HIGH POINT

3 CRAH PIPING DETAIL
N.T.S.



NOTES:

1. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS.
2. PROVIDE VALVED DRAINS WITH HOSE THREAD FITTINGS AT ALL LOW POINTS.
3. ALL COIL CONNECTIONS SHALL COMPLY WITH MFGR RECOMMENDATIONS.
4. COORDINATE WITH CONTROLS DRAWINGS AND BMS CONTRACTOR FOR INSTALLATION OF TEMPERATURE WELLS WHERE REQUIRED.

NOTES:

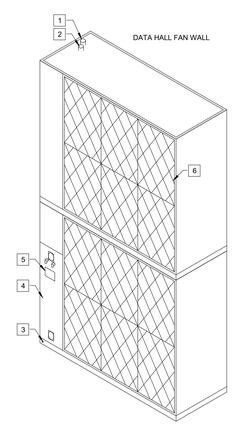
1. BALL VALVE
2. PRESSURE INDICATOR
3. Y-STRAINER
4. 2-WAY, ON-OFF CONTROL VALVE, FACTORY PROVIDED AND INSTALLED
5. PRESSURE & TEMPERATURE PORT
6. UNION
7. FLEXIBLE PIPE CONNECTION, SEE SPECIFICATIONS FOR DETAILS.
8. DRAIN VALVE AT LOW POINT.
9. AUTOFLOW LIMITING VALVE

12 WSHP PIPING DETAIL
N.T.S.

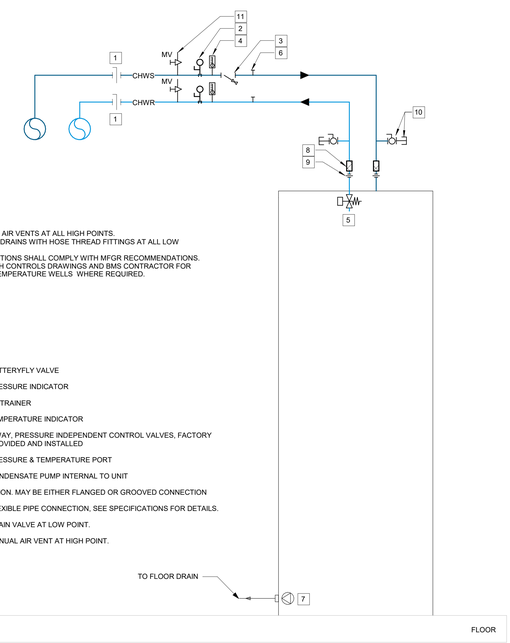
1. CHILLED WATER SUPPLY CONNECTION
2. CHILLED WATER RETURN CONNECTION
3. NPSC STEEL COUPLING, DRAIN CONNECTION
4. ELECTRICAL PANEL
5. HMI INTERFACE
6. MERV 8 FRONT LOAD FILTERS (TYP.)

NOTES:

1. PROVIDE MINIMUM CLEARANCES RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY NEC.
2. INTEGRAL PRESSURE INDEPENDENT CONTROL VALVE PROVIDED BY EQUIPMENT MANUFACTURER



4 FAN WALL DETAIL
N.T.S.



NOTES:

1. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS.
2. PROVIDE VALVED DRAINS WITH HOSE THREAD FITTINGS AT ALL LOW POINTS.
3. ALL COIL CONNECTIONS SHALL COMPLY WITH MFGR RECOMMENDATIONS.
4. COORDINATE WITH CONTROLS DRAWINGS AND BMS CONTRACTOR FOR INSTALLATION OF TEMPERATURE WELLS WHERE REQUIRED.

NOTES:

1. BUTTERYFLY VALVE
2. PRESSURE INDICATOR
3. Y-STRAINER
4. TEMPERATURE INDICATOR
5. 2-WAY, PRESSURE INDEPENDENT CONTROL VALVES, FACTORY PROVIDED AND INSTALLED
6. PRESSURE & TEMPERATURE PORT
7. CONDENSATE PUMP INTERNAL TO UNIT
8. UNION. MAY BE EITHER FLANGED OR GROOVED CONNECTION
9. FLEXIBLE PIPE CONNECTION, SEE SPECIFICATIONS FOR DETAILS.
10. DRAIN VALVE AT LOW POINT.
11. MANUAL AIR VENT AT HIGH POINT.

8 FAN WALL PIPING DETAIL
N.T.S.

serverfarm
CORGAN
TGRWA STRUCTURAL ENGINEERS
kW Mission Critical Engineering Member of WSP
EP ENGINEERING PLUS
Kimley»Horn

ISSUES

4	1.23.2026	DESIGN DEVELOPMENT

REVISIONS

kW Mission Critical Engineering
Contact: K. DREWNOWSKI Phone: 601.451.2099
Engineer: K. COOPER
License #: 23615 Exp. Date: 00/00/0000

NOT FOR CONSTRUCTION

Date: 12/12/2025

SERVERFARM

Clarksville, AR

MECHANICAL PIPING DETAILS

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1/23/2026 3:52:35 PM M05-31 MECHANICAL PIPING DETAILS