GENERAL NOTES

1. INSTALL TRAP ASSEMBLY SHALL BE EASILY ACCESSIBLE FOR VISUAL INSPECTION AND REPAIRS.
2. SPACED Drip TRAPS IDEALLY AT A MAXIMUM 150’ INTERVALS (300’ FOR DIRECT BURIED, UPHILL (EVEN IF TEMPORARY) AND FLAT RUNS TO BE GIVEN SPECIAL CARE. ADDITIONALLY, DESIGN SUCH THAT THERE IS A DRIP UPSTREAM OF ALL EXPANSION JOINTS, BRANCH CONNECTIONS, ELEVATION CHANGES, CONTROL VALVES, AND ISOLATION VALVES. NO EXPANSION U_LOOPS ALLOWED FOR UPHILLS (THEY CAN HARBOUR CONDENSATE).
3. ALL TRAPS: 3/4” (MIN.), TIGHTLY CONNECTED.
4. LOWER TRAP, CITY CAMPUS: TLV FREE FLOAT MODEL JHSRL-5 (JHSRL-22 FOR 250 PSI) SUPERHEAT STEAM TRAPS.
5. LOWER TRAP, EAST CAMPUS: ARMSTRONG 800, 811, 812, 813 SERIES INVERTED BUCKET STEAM TRAPS, OR TLV JHSRL-5.
7. FOR STAINLESS FITTINGS (TRAP FOR EXAMPLE), USE ANTI-SIEZE COMPOUND, PLUS ALL STAINLESS HARDWARE (NUTS, BOLTS).
8. DRESS FITTINGS WITH HIGH TEMPERATURE TEFLO TAPE (550 DEG F) USING EXACTLY THREE WRAP THICKNESSES, NO PIPE DOPE.

STEAM DISTRIBUTION SYSTEM

DRIP TRAP DETAIL

Drip Leg Sizing

<table>
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<tr>
<th>Size</th>
<th>4&quot; and Under</th>
<th>6&quot; and Over</th>
<th>8&quot; and Over</th>
<th>10&quot; and Over</th>
<th>12&quot; and Over</th>
<th>14&quot; and Over</th>
<th>16&quot; and Over</th>
<th>18&quot; and Over</th>
<th>20&quot; and Over</th>
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<tr>
<td>Main Size</td>
<td>ENTIRELY SCH 80</td>
<td>SAME AS MAIN</td>
<td>OVER 6” HALF AS MAIN</td>
<td>IF NON-STANDARD VERTICAL HEIGHT</td>
<td>BY FPC ENG</td>
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Condensate Return Main

Condensate Return Main

Pressure Service

| Size | 3/4"
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<td>2&quot;</td>
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Drip Trap Detail

Key Notes

1. ROTATE/POSITION ANY DISCHARGES AWAY FROM PERSONNEL, EQUIPMENT, AND INSULATION. ANGLE TOWARDS THE AWAY WALL RATHER THAN STRAIGHT DOWN.
2. ADD THREADOET & PLUG EVEN IF NO UPPER TRAP ASSEMBLY PROVIDED.
3. ISOLATION VALVES AT EITHER END OF THE TRAP ASSEMBLY TO BE LOCATED AS CLOSE TO RESPECTIVE MAIN AS POSSIBLE. NO FITTINGS ALLOWED BETWEEN ISOLATION VALVE AND Drip.
4. INSTALL LEGS OF STRAINER IN HORIZONTAL POSITION, VERTICAL ACCEPTABLE IF NEEDED TO MINIMIZE CONDENSATE HOLDING. STRAINER MESH=20 OR HIGHER.
5. USE A MINIMUM OF TWO 90 DEGREE BENDS BETWEEN CHECK VALVE AND ISOLATION VALVE ON CONDENSATE MAIN, TO ALLOW THERMAL GROWTH/EXPANSION BETWEEN STEAM AND CONDENSATE RETURN PIPES.
6. TO PREVENT EROSION OF OPPOSITE PIPE WALL, TRAP DISCHARGE TO ENTER AT 45 DEGREE ENTRY INTO CONDENSATE MAIN IN THE DIRECTION OF THE CONDENSATE FLOW. STREET 90 JUST PRIOR TO 45, TO MAXIMIZE FLEXIBILITY FOR THERMAL EXPANSION.
7. GO UP AT LEAST 1 PIPE SIZE PRIOR TO 45 DEGREE INTO CONDENSATE. MIN PIPE SIZE OF 1-1/2”.
8. MAY LOCATE BLOWDOWN ON SIDE OF LEG (AS LOW AS PRACTICAL) BECAUSE OF SPACE CONSTRAINTS.
9. INSTALL UNIONS REGARDLESS IF TRAP COMES WITH UNIVERSAL 2-BOLT FLANGE BODY.
10. NO IRON OR BRONZE VALVES. NO GATE VALVES. QUARTER-TURN VALVES AND CHECKS 2” AND UNDER TO BE STEAM RATED. CLASS 300 OR 2000 CWP OR LARGER. ACCEPTABLE BALL VALVES INCLUDE APOLLO 73A-100-24, AND MILWAUKEE 10-SERIES, ACCEPTABLE SWING CHECK VALVES (NO SPRINGS, NO PISTON-TYPE) INCLUDE VELAN CLASS 800 FORCED SWING CHECK, AND POWELL CLASS 300 FORCED SWING CHECK.
11. PIPING TO BE THREADED-ONLY 3/4” SCH 80, MIN. CLASS 300 FITTINGS. NO FLANGES. NO SOCKET WELDS.
12. ROUTE TO CONSPICUOUS LOCATION (NEAR SURFACE HATCH, OR OUT VENT COFFER).