GENERAL NOTES

1. INSTALL TRAP ASSEMBLY SHALL BE EASILY ACCESSIBLE FOR VISUAL INSPECTION AND REPAIRS.

2. SPACE DRIP TRAPS IDEALLY AT A MAXIMUM 150’ INTERVALS (300’ FOR DIRECT BURIED, UPHILL) PER 100’ (EVEN IF TEMPORARY) AND FLAT RUNS TO BE GIVEN SPECIAL CARE. ADDITIONALLY, DESIGN SUCH THAT THERE IS A DRIP UPTREAM OF ALL EXPANSION JOINTS, BRANCH CONNECTIONS, ELEVATION CHANGES, CONTROL VALVES, AND ISOLATION VALVES. NO EXPANSION U-LOOPS ALLOWED FOR UPHILLS (THEY CAN HARBOR CONDENSATE).

3. ALL TRAPS: 3/4” (MIN.), THREADED CONNECTION.

4. LOWER TRAP, CITY CAMPUSES: TLV FREE FLOAT MODEL JHSRLB-5 (JHSRLB-22 FOR 250 PSI) SUPERHEAT STEAM TRAPS.

5. LOWER TRAP, EAST CAMPUSES: ARMSTRONG 800, 811, 812, 813 SERIES INVERTED BUCKET STEAM TRAPS, OR TLV JHSRLB-5.


7. FOR STAINLESS FITTINGS (TRAP FOR EXAMPLE), USE ANTI-SIEZE COMPOUND, PLUS ALL STAINLESS HARDWARE (NUTS, BOLTS).

8. DRESS FITTINGS WITH HIGH TEMPERATURE TEFON TAPE (550 DEG F) USING EXACTLY THREE WRAP THICKNESSES, NO PIPE Dope.

9. AREAS THAT ARE PRONE TO FLOODING, OR COULD GET FLOODED VIA WATER PIPING BREAK, INSTALL 2X100% (UPPER & LOWER) TRAPS, EACH OF ADEQUATE CAPACITY, SUCH THAT THEY CAN HANDLE A SUBMERGED STEAM PIPE (WHICH WILL BE FORMING A LOT OF CONDENSATE). SEE TABLE.

10. AT ANY CRITICAL LOCATIONS (END OF RUN, LOW POINT, UPHILL RUNS, FLOODING POTENTIAL, OTHER) WHERE A LACK OF CONDENSATE REMOVAL COULD BE CATASTROPIC, INSTALL 2X100% (UPPER & LOWER) STEAM TRAP ASSEMBLIES IN PARALLEL.

11. TRAPS TO BE SIZED FOR QUICK (120 MINUTES), UNSUPERVISED WARM-UP. ACTUAL WARMUP WILL TAKE LONGER. 120 MINUTES PROVIDES MARGIN/SAFETY FACTOR. DURING WARM UP, TRAP TEST TEE’S CAN REMAIN OPEN UNTIL SUFICIENT PRESSURE ABOVE CONDENSATE RETURN MAIN PRESSURE IS DEVELOPED.

12. NO GRAY IRON, DUCTILE IRON OR BRONZE VALVES, STRAINERS, FITTINGS, ETC. ANY WHERE (EXCEPT FOR ARMSTRONG 800’S TRAPS).

KEY NOTES

1. ROTATE/POSITION ANY DISCHARGES AWAY FROM PERSONNEL, EQUIPMENT, AND INSULATION. ANGLE TOWARD THE AWAY WALL RATHER THAN STRAIGHT DOWN. QUARTER-TURN VALVE HANDLE TO BE ORIENTED FURTHER AWAY FROM DISCHARGE IN OPEN POSITION, AND HANDLE IN CLOSED POSITION SHOULD NOT PRESENT TRIP OR CATCH HAZARD.

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 STRAINERS 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 jointS, BRANCH CONNECTIONS, ELEVATION CHANGES, (300’ FOR DIRECT BURIED). UPHILL (EVEN IF TEMPORARY) AND FLAT RUNS TO BE GIVEN SPECIAL CARE. ADDITIONALLY, DESIGN SUCH THAT THERE IS A DRIP UPTREAM OF ALL EXPANSION JOINTS, BRANCH CONNECTIONS, ELEVATION CHANGES, CONTROL VALVES, AND ISOLATION VALVES. NO EXPANSION U-LOOPS ALLOWED FOR UPHILLS (THEY CAN HARBOR CONDENSATE).

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 TO CONDENSATE. MIN PIPE SIZE OF 1-1/2”, MAY LOCATE BLOWDOWN ON SIDE OF LEG (AS LOW AS PRACTICAL) BECAUSE OF SPACE HAZARD.

8. INSTALL UNIONS REGARDLESS IF TRAP COMES WITH UNIVERSAL 2-BOLT FLANGE BODY.

9. NO IRON OR BRONZE VALVES. NO GATE VALVES. QUARTER TURN VALVES AND CHECKS 2” AND UNDER TO BE STEAM RATED, CLASS 300 OR 2000 LFPS OR BETTER. 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.

10. PIPING TO BE THREADED-ONLY 3/4” SCH 80, MIN. 30 FITTINGS. NO FlANGES. NO SOCKET WELDS.

11. ROUTE TO CONSPICUOUS LOCATION (NEAR SURFACE HATCH, OR OUT VENT COFFER).