COMPONENTS:

A. Building or manhole condensate return system: from condensate receiver

B. Gate valve: 2-inch and smaller, 800 lb. forged steel threaded, rising stem; 2 1/2-inch and larger 150 lb. O.S. & Y, flanged, cast steel.

C. Strainer: cast or forged steel with Monel basket. Pipe to floor drain.

D. Check valve: as provided by pump manufacturer.

E. Union: 800 lb. forged steel

F. Pressure powered pump: Spirax-Sarco type PPC steam pressure powered condensate pump with factory installed 125 psi rated sight glass and 3/4" NPT side drain connection.

G. Steam supply (125 psig).

H. Condensate return main: connect to top of condensate return main with 90 degree weldolet.

I. Vent line: provide union and goose neck above roof.

J. Full pipe size bypass to sanitary drain.

K. 3/4" pipe to sanitary drain.

NOTES:

1. Not for construction. This diagram shows the typical arrangement of steam powered pumped condensate return systems at SJ. The engineer of record shall adapt this arrangement to the specific project requirements. Additional detailed drawings shall be prepared by the engineer as necessary to assure proper installation in accordance with ANSI/ASME B31.1.

2. Condensate receivers shall be upstream of "A." All steam traps draining equipment that has a steam control valve shall be installed so that condensate will gravity-flow from the steam trap to the condensate receiver.