(16) Proper Operation Check: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from a garden hose until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house after the pump starts operating. The alarm light should go off when the liquid level falls below the high-water float. The pump should turn off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.

(17) Pressure Head Adjustment: The pressure head must be adjusted to match that specified in the design. The pressure head is measured as the height liquid will rise above the turn-up elbows when the pump is running. To adjust the head:

(a) Glue a 4' length of pipe (preferably clear) to a threaded adapter that will screw onto the turn-up adapters. (Call this the "test tube".)

(b) Replace the turn-up cap with the "test tube".

(c) Adjust the gate valves until the effluent reaches the desired height in the "test tube". Remember to include the distance below the ground surface to the lateral line when measuring the height. The pressure head should be as specified for each line. This is the height above the lateral the liquid should be in the temporary "test tube".

(18) Final Landscaping: After the system is installed, the following should be checked to insure that the system will not be overloaded with excess rainwater and run-off:

(a) The distribution field is shaped to shed rainwater and is free of low areas.

(b) Some areas of drainfield will require fill as shown for leveling. This includes the old soil pit and tree throw areas.

Concluding Note:

This plan was done to facilitate permitting by the Iredell County Health Department by an agent of the property owner. Any additions, or additional requirement(s), or deletions to enhance design or workability which will facilitate a permit are welcomed and may be made by note on this plan without returning entire design. The designer realizes that a plan with as many details as this can be changed and/or improved upon. The installer must realize that this is an exact plan and must be installed with exacting measurements. Should the installer desire a change, it must be approved in writing by note on the plan by the health department. Final inspection by the RS will also require more time and detail than a conventional system. If there are questions, please give me a call.