

June 6, 2014

Gary Groth

Douglas County Parks – Whistler's Bend

1036 SE Douglas Street, Room 116

Roseburg, OR 97470

Re: **Whistler's Bend Park Improvements (PR#2014-71)**
Douglas County Parks - Whistler's Bend (PWS#93944)
Conditional Approval

Dear Gary Groth:

Thank you for your submittal of plan review information for the water system improvements for Douglas County Parks - Whistler's Bend to the Oregon Health Authority's Drinking Water Services (DWS). On May 1, 2014, our office received schematic plans, project description, and specifications. A plan review fee of \$150 was also received.

The project includes a storage tank, pressure tank, filter, and distribution lines.

The plans are approved with the following conditions:

1. All water pipes installed shall have an electrically conductive wire (tracer wire) or other approved conductor for locating the pipe when the pipeline is underground. The wire shall be No. 18 AWG (minimum) solid copper with blue colored insulation. The ends of the wire shall be accessible in valve boxes, casings, or outside of building foundations where the pipe enters the building.
2. All pipes, pipe fittings, valves, storage tanks, filters, and all other materials that will come in contact with the water shall be NSF Standard 61 certified or equivalent.
3. At all points of water use, the water pressure shall not be below 20 psi.

"Assisting People to Become Independent, Healthy, and Safe"
An Equal Opportunity Employer

4. All piping shall be carefully bedded and fully supported in material free from rocks and shall be provided with a cover of at least 30 inches.
5. Any sewer lines that cross the water pipes must be a minimum of 18 inches below the waterline and cannot cross over the top of the water pipe. It appears there may be sewer lines because the note of flush restrooms and showers stated on the plans.
6. For the storage tank, an access manhole shall be provided to permit entry into the interior for cleaning and maintenance. The access manhole shall be constructed to prevent debris from entering the storage tank since it will be underground. The access manhole shall be a curbing around the opening and a lockable watertight cover that overlaps the curbing.
7. The access manhole must have an internal ladder. The material of the ladder must meet NSF Standard 61 requirements. This ladder does not need to be permanently installed, but must be able to be disinfected prior to being placed into the storage tank.
8. Screened vents shall be provided above the highest water level to permit circulation of the air above the water in finished water storage facilities.
9. An overflow of sufficient diameter to handle the maximum flow into the tank shall be provided at the top of the storage tank. The outlet end of the overflow shall be fitted with angle-flap valves or equivalent protection and shall discharge with an airgap to a watercourse or storm drain capable of accommodating the flow.
10. Bypass piping around the pressure tank shall be provided to permit operation of the system while the tank is being maintained or repaired.
11. The pressure tank shall be provided with a drain, a pressure gauge, an air blow-off valve, means for adding air, and pressure switches for controlling the operation of the pump.
12. The pressure tank shall be constructed of steel or an alternative material, provided the tank is NSF 61 certified, and shall be designed for pressure at least 50 percent greater than the maximum system pressure anticipated.

13. The sample tap needs to be moved to after the filter. Sample taps should be located after any treatment process and before the first user.

Until we receive verification that the project was completed with the conditions listed above met and we have granted Final Approval for the project, the improvements are not approved for use. Upon completion of the project, the designated representative of the water system must verify in writing that construction was completed according to the submitted plans and conditions listed above. If substantial changes are made, a set of record (as built) drawings must be submitted. Documentation demonstrating how the above conditions were met should reference Plan Review #2014-71 and can be e-mailed to me at rebecca.a.templin@state.or.us or mailed to:

Attn: Rebecca Templin
OHA-Oregon Drinking Water Services
444 A Street
Springfield, OR 97477

If you have any questions or would like this in an alternate format, please feel free to call me at (541) 726-2587 x29.

Sincerely,



Rebecca Templin, P.E.
Regional Engineer
Drinking Water Services

cc: Plan Review, DWS Portland
Caroline Gross-Regan, Douglas County
Jon Everett, Douglas County Parks