

SIERRA LAKES COUNTY WATER DISTRICT

P.O. Box 1039, Soda Springs, CA 95728-1039
(7300 Short Road, Serene Lakes)

Maintenance Office

Administrative Office

Billing Office

530-426-7802

530-426-7800

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INSTRUCTIONS TO APPLICANT FOR WATER AND SEWER CONNECTIONS

Before connecting to the District's facilities, be certain you and your contractor are familiar with the requirements contained herein. Some of these requirements are supplemental to the Uniform Plumbing Code (adopted by Placer County) due to factors specific to the Serene Lakes area. The District has primary responsibility for inspection of water and sewer lines from the point of connection at the property line to the building foundation. The procedures to be followed in obtaining water and sewer service are as follows:

1. Prior to commencing any clearing or groundwork on the lot, the applicant shall have submitted a completed Application for Water/Sewer Connection Permit form ("Application"), made payment of the applicable facility fees and water meter deposit, and installed erosion control devices as outlined in the *Serene Lakes Guide to Erosion Control* and Placer County Stormwater Ordinance Section 8.28.150.A. District Staff may conduct a survey of the lot and the surrounding area to confirm that all required erosion control devices have been installed and are functional. This inspection does not relieve the Property Owner or his Contractor from the requirement to meet all regulatory stormwater requirements during the course of construction. If

the required erosion control devices are not installed and/or functional, the District may refuse to perform any inspections until the erosion control devices deficiencies are corrected. In the event the District incurs costs to enforce such erosion control measures or incurs costs to carry out such measures itself with respect to any applicant's activities, the applicant shall be responsible for payment of such costs prior to final inspection.

2. Following the issuance of a Connection Permit and prior to beginning construction of service pipelines, you must notify all utility providers of your intent to excavate. Call Underground Service Alert (800-227-2600) at least 48-hours in advance of all excavation activity. After all utility providers have identified the location of their respective infrastructure, expose the District's water and sewer services at the connection point.

3. Install the water and sewer service pipelines and the water meter in accordance with the requirements and details herein.

4. Water and sewer lines may be placed in a common trench if the top of the sewer pipeline is at least twelve (12) inches below the bottom of the water pipeline **and** the two pipelines are separated a minimum of twelve (12) inches horizontally. No power, telephone, CATV, or propane conduits or piping are allowed within twelve (12) inches of the water and sewer laterals except when crossing at a 90-degree angle (Figure 1). In the event the required horizontal and vertical separations cannot be maintained in the common trench, the pipes must be separated by at a minimum of twenty-four (24) inches of compacted material or in a separate trench. When the water and sewer pipes cross at a 90-degree angle the minimum vertical separation between pipes shall be 12-inches and no joints or fittings are allowed within 24-inches of the crossing. The separation requirements begin no more than 5-feet from the point(s)

of connection to the District's system and continue to the house foundation.

WATER SERVICE REQUIREMENTS

1. Use of copper pipe, type K (green color-coded), for the water service pipeline is required. If the District's and the applicant's service lateral pipes are not made of the same material, a dielectric union (plastic or other approved insulator) must be installed at the connection point to the District's service pipeline. If the installation includes a meter, a dielectric union is not required unless dis-similar materials are used to connect the meter to the laterals.

2. For adequate frost protection, a minimum of thirty-six (36) inches of cover is required above the top of the water service pipeline.

3. A method to drain the house plumbing and portions of the lateral not protected from freezing shall be installed either under the house in the crawl space or in the garage floor.

The installation must be in accordance with the Uniform Plumbing Code and meet Placer County Building Department requirements. If the drain valve is installed in the garage floor, it must be properly boxed and protected from damage. (Figure 2).

4. A water meter must be installed before water use commences. All equipment associated with meter installation including valves, fittings, settings, meter box and meter will be provided by the District to the Contractor at the customer's expense.

5. Water service lines under construction shall not be left exposed overnight from September 15 to June 1. Damages suffered to District facilities due to exposed pipelines will be charged to the property owner.

6. Because of the danger of contamination of the District's water supply, no person shall

install an underground storage tank containing a hazardous substance within the District.

All above ground storage tanks containing a hazardous substance shall comply with federal, state and local laws, ordinances, rules and regulations governing the installation, construction, repair and maintenance of such above-ground storage tanks.

7. No water pipes shall be installed within exterior walls in any new construction.

8. Single-family dwellings shall be equipped with the following water-saving fixtures:

- Water-Saving Showerheads. Showerheads equipped with a flow reducing device limiting flow to a maximum of 2.75 GPM at water pressures of up to 45 psi and not more than 3.0 GPM at water pressures of up to 80 psi.
- Water-Saving Aerators. Aerators equipped with a flow-reducing device limiting flow to a maximum of 2.75 GPM on kitchen and bathroom sinks.
- Water-Saving Toilets. Tank-type toilets designed for a maximum 1.6 gallon flush or water closets equipped with an approved flushometer valve designed for a maximum 1.6 gallon flush.

9. Your home's power grounding system shall not be attached to any house plumbing or the water lateral which is, or may be, connected to a District service connection or main pipeline.

10. Your water will be turned on upon completion of the Final Inspection and approval of installation. If you desire water for construction purposes prior to the completion of the water service lateral and you have paid your primary facility fees, contact the District Administrative Office. DO NOT turn the water on yourself or operate any District Valve or Hydrant.

SEWER SERVICE REQUIREMENTS

1. Verify the elevation and location of the sewer service to your lot before finalizing your building plan. The lateral shall be constructed at a minimum slope of 1/4 inch per foot

(2%) which may require adjustment of your building pad elevation. On difficult building sites, a Slope of 1/8 inch per foot may be considered upon written request to and approval by the Board of Directors **prior** to construction of the pipeline. Residential sewer pumps are not allowed except when no feasible alternative exists and when the installation has been approved in advance by the Board of Directors.

2. Use four (4) inch SDR-35 polyvinylchloride (PVC) pipe with rubber gasket fittings; CIP and ABS pipe materials and glued fittings are not allowed except at the connection to the backwater valve (if required). The minimum cover over the pipeline in non-traffic areas shall be 30-inches; within three (3) feet of any driveway or parking area the minimum cover is 48-inches. As an alternative, C900 PVC pipe may be used in traffic areas and the minimum cover is 30-inches (Figure 3).

3. The sewer pipe shall be placed on a compacted bed of sand (100% passing 1/2-inch sieve, 35-100% passing #4 sieve, sand equivalent >20), free from construction materials, debris, and other deleterious materials. The substitution of job-excavated material conforming to these requirements is permitted. The bedding shall be a minimum of three (3) inches deep under the pipe, ten (10) inches wide on both sides of the pipe and compacted to 95% Relative Compaction (ASTM D1557).

4. Pipezone backfill material shall be sand (100% passing 1/2-inch sieve, 35-100% passing #4 sieve, sand equivalent >20), free from organic matter, construction materials, debris and other deleterious materials. The substitution of job-excavated materials conforming to these requirements is permitted. Pipezone backfill shall be placed to a minimum depth of twelve (12)

inches over the top of the pipe and compacted to 95% Relative Compaction (ASTM D1557) using suitable mechanical equipment. Where the longitudinal slope of the sewer line exceeds 10 percent (10%), the pipezone backfill shall be interrupted at six (6) foot intervals by ditch plugs of fine-grained material (silt or clay) to minimize piping and seepage along the trench backfill.

5. The trench backfill above the pipezone backfill may consist of job-excavated material in non-traffic areas. It shall be free from deleterious and organic material and shall not contain any particles larger than three (3) inches diameter. The backfill shall be compacted to 90% Relative Compaction (ASTM D1557). The backfill above the pipezone in traffic areas shall meet Placer County requirements for Class 2 Aggregate Base and be compacted to 95% Relative Compaction (ASTM D1557)

6. A Caulder coupling or other approved connector shall be used to connect different types of sewer pipeline material at the house foundation and connection to the District(s) system.

7. At least two (2) cleanouts must be brought to ground surface and properly boxed. One cleanout shall be installed a maximum of five (5') feet from the building foundation or in the garage area; the other shall be installed adjacent to the street right-of-way in accordance with Figures 4 and 5. Additional cleanouts are required on laterals exceeding 75-feet in length or at any change of direction of 45 degrees or more. No single fitting shall exceed 45-degrees.

8. If your lot is listed below, an approved flapper type backwater valve and valve box must be installed on the sewer service pipeline between the building foundation and the sewer service cleanout. Refer to Figure 5 for placement. The valve shall be constructed with a bronze flapper. A backwater valve will help prevent the backup of sewage into your home through your plumbing facilities in the event of a clogged or overloaded main sewer pipeline. The District

will not be responsible for damages caused by a backup. The District will relieve a backup condition as soon as possible following notification of such a condition. Cleaning or unclogging a building sewer service pipeline between the building and the main sewer pipeline is the responsibility of the property owner.

LOTS REQUIRING INSTALLATION OF AN APPROVED BACKWATER VALVE

<u>BLOCK</u>	<u>LOT</u>	<u>SUBDIVISION</u>
D	9	Ice Lakes Unit 1
E	4	Ice Lakes Unit 1
E	5	Ice Lakes Unit 1
DD	9	Ice Lakes Unit 2
DD	11	Ice Lakes Unit 2
N	12	Ice Lakes Unit 2
O	11	Ice Lakes Unit 2
P	8	Ice Lakes Unit 2
R	7	Ice Lakes Unit 2
R	10	Ice Lakes Unit 2
R	16	Ice Lakes Unit 2
S	9	Ice Lakes Unit 2
T	1	Ice Lakes Unit 2
T	7	Ice Lakes Unit 2
	12	Serene Lakes Unit 1
	15	Serene Lakes Unit 1
	115	Serene Lakes Unit 1
	122	Serene Lakes Unit 1

LOTS REQUIRING INSTALLATION OF AN APPROVED BACKWATER VALVE

<u>BLOCK</u>	<u>LOT</u>	<u>SUBDIVISION</u>
	124	Serene Lakes Unit 1
	136	Serene Lakes Unit 1
	137	Serene Lakes Unit 1
	24	Serene Lakes Unit 2

INSPECTIONS

The District Inspector will not conduct any inspections for which a Connection Permit has not been issued. You must contact the District Administrative Office (530-426-7800) 24-hours (weekdays only) in advance to schedule inspections. Inspections will only occur from 8:00 am until noon, Monday through Friday. A minimum of two inspections are required:

1. Visual Inspection (before backfilling the water and sewer service trenches):

The inspection shall include verification of water and sewer pipe materials, fittings, water meter location, cleanout locations, backwater valve (if required), trench backfill under pipes, water lateral pressure test, sewer pipe slope, required separation between utilities and sufficient pipe bedding on site to complete the trench backfill.

2. Pressure Test and Final: After backfill, the sewer pipeline will be pressure checked for leakage. The sewer line will be tested using either water head (8-feet at the building cleanout and 15-feet at the downstream cleanout) with no loss of water for five (5 minutes) or air pressure (3.5 psi) for five (5) minutes with a maximum loss of ½ psi. Sewer line testing must be witnessed by a District Inspector. Upon satisfactory completion of the sewer pressure test, the

final inspection will verify: cleanouts and meter box set to appropriate grade, compaction of intermediate backfill and trench settlement. The District reserves the right to have compaction tests performed by a licensed geotechnical testing firm in order to verify compaction of the pipezone or trench backfill section. The initial test by the District will be performed in such a manner as to not unnecessarily delay the work. The Applicant shall not be required to reimburse the District for the initial test, however the Contractor shall pay for all subsequent compaction tests. The District will notify the Placer County Building Department if all work is completed to District requirements.