

PINETOP-LAKESIDE SANITARY DISTRICT STANDARD SPECIFICATIONS FOR SERVICE LINE CONNECTION

Definitions:

- Lateral- line from the main sewer to the edge of private property.
- Service line- line from the lateral to building(s) to be connected.

All service connections to Pinetop-Lakeside Sanitary District (aka District) sewers shall be made in accordance with the procedures outlined below.

The PROPERTY OWNER desiring a sewer connection shall:

1. Apply for a sewer permit on the form provided by the District. District permit shall be available at all times during construction.
2. Pay the fees established by the District and execute the required covenant, if necessary. User fees are billed quarterly. Commercial User fees are based on water consumption. The minimum monthly fee is a base rate for having sewer available, even if it is not often used.
3. Obtain or review a copy of Standard Specifications governing construction attached to the sewer permit.
4. Obtain available information on location and depth of lateral at the property line, if a lateral exists.
5. Obtain any permits required by other agencies.
6. As required by Arizona state law, call Blue Stake at 1-800-782-5348 for utility location prior to start of construction.
7. Construct service line in accordance with Standard Specifications of the District.
8. ***Have service line and required fittings completely installed, including bedding, and uncovered at time of inspection. Slope of pipe will also be verified.***
9. Request a time and date for a construction inspection at least 48 hours before it is needed.
10. If inspection must be rescheduled for any reason, notify the District at least 24 hours prior to the requested inspection time and date or pay an additional inspection fee.
11. Correct all defects found during inspection and request a re-inspection date and time.
12. Sign contractor checklist.
13. Give original sewer permit to the District inspector. Homeowner or contractor must be present for inspection.

SPECIFICATIONS

Excavation:

1. All excavation shall follow OSHA requirements and District specifications.
2. Trench for 4" lines- not more than 24" nor less than 16" wide. Trench for 6" lines- not more than 24" nor less than 18" wide.
3. Depth of bedding shall be at least 6" below the pipe grade. All rock in the bottom of the trench shall be removed to a minimum depth of 6" below pipe grade. Where excavation is carried more than 6" below pipe grade, such excavation shall be backfilled with approved bedding material to create a firm and uniform support for pipe.
4. All water entering an excavation shall be promptly removed, and shall not be allowed to enter any sanitary sewer pipe.

Bedding, Laying and Backfilling

1. Well graded crushed rock, gravel or 3/4" screened cinders will be used for bedding provided no particles exceed 3/4" in size and the material forms a firm uniform support for the pipe. **No sand or cinder/sand shall be accepted for bedding or shading.**
2. Pipe shall be carefully bedded full length with joints recessed so as to bear no load.
3. Bedding shall start 6" under the pipe and brought up equally on both sides of the pipe and tamped in such a way as to ensure proper support of the pipe without causing misalignment. Shading for PVC pipe shall be brought to 6" above the pipe and compacted in layers to the density of adjacent undisturbed ground with a minimum clearance of 3" from side of pipe to trench wall.
4. Slope of pipe to be 1/4" per foot and not less than 1/8" per foot unless special permission granted by the District.
5. Pipe shall be laid with the bell up-stream.
6. Excavated material may be replaced in the trench above the shading if free of wood, limbs, stumps, and rocks over 6" in diameter.
7. Cinder bedding shall not be used with ductile iron pipe. All ductile iron pipe shall be wrapped with an 8-mil polyethylene tube.

Pipe & Fittings

1. The minimum size service line shall be 4" in diameter. Please refer to the current Uniform Plumbing Code to determine the appropriate size for the service line.
2. The following types of pipe are acceptable at the given depths:
 - a. PVC SDR 35, minimum 2 feet of cover over top of pipe.
 - b. PVC SDR 21, minimum 6" of cover required.
 - c. 4" Ductile Iron Class 51, less than 6" of cover required.
 - d. 6" and larger Ductile Iron Class 50, less than 6" of cover. Schedule 40 ABS is *not* allowed.
3. All joints and fittings shall be of type recommended by pipe manufacturer with elastomeric seals. Fittings shall be pre-molded or shop welded. No styrene fittings are allowed. Glued fittings are allowed but must use primer and the correct glue for the type of pipe used. Expansion joints every 60 feet are required when using glued fittings. No Fernco will be allowed except for Ductile Iron or clay connections.
4. A check valve (anti-backwater device) is required on the service line.
5. There shall be cleanouts at each change in direction totaling 135° or more. Cleanout at the property line shall be inside a concrete meter box with steel lid sized according to the cleanout. All cleanouts downstream of the backwater valve shall be of the same size as the service line pipe. Maximum distance between cleanouts shall not exceed 100 feet. (See attached sketch).
6. All pipe and fittings shall be installed according to manufacturer's specifications.
7. Pipe with imperfections or damage due to defective manufacture, handling or storage will not be accepted. Imperfections may be, but are not limited to, cracked pipe, crushed pipe, rough interior, bowed pipe and sunburned pipe.

General

1. Grease, sand and/or lint traps may be required for certain connections; type and size to be approved before purchase.
2. No pipe shall be exposed for more than 48 hours prior to or after inspection. Open trenches are not only safety hazards, but should they fill with water most sewer pipe, especially plastic, will float and

become separated at the joints allowing water and other debris to enter the sewer system which may cause clogged sewer lines, broken pumps and malfunctions at the treatment facility.

3. Before closure, pipe shall be cleaned from the District sewer toward the building(s) being connected, if required by the District inspector.
4. Cutting or tapping into a District sewer main shall only be done by District personnel.
5. All requirements shall be in compliance with ADEQ, UPC, Navajo County, and the District.
6. Nothing except domestic sewage may be discharged without a separate special permit.
7. If you have any questions, the District Business Office hours are from 7:00 a.m. to 5:30 p.m., Monday through Thursday. (928) 368-5370, press 0.

ABANDONED SEPTIC TANKS

Abandoned septic tanks shall be pumped and filled with satisfactory material per the Arizona Department of Environmental Quality (ADEQ) regulations and the Uniform Plumbing Code (UPC). The District allows one free dump for septic waste using the coupon provided with the sewer permit.

UNIFORM PLUMBING CODE

Section 721.0- Location (sewer and water service lines)

721.1 *Table 7-7 Minimum Horizontal Distance Required from Building Sewer- *Parallel construction:*

Water supply wells.....	50 ft
On-site domestic water service line.....	1 ft

Section 722.0- Abandoned Sewers and Sewage Disposal Facilities:

722.1 Every abandoned building (house) sewer, or part thereof, shall be plugged or capped in an approved manner at the connection to the sewer main or at a location acceptable to the Authority Having Jurisdiction.

722.2 Every cesspool, septic tank and seepage pit which has been abandoned or has been discontinued otherwise from further use or to which no waste or soil pipe from a plumbing fixture is connected, shall have the sewage removed and disposed of in a manner required by law, and be completely filled with compacted earth, sand, gravel, concrete, or other approved material.

722.3 The top cover or arch over the cesspool, septic tank or seepage pit shall be removed before filling and the filling shall not extend above the top the vertical portions of the sidewalls or above the level of any outlet pipe until inspection has been called and the cesspool, septic tank or seepage pit has been inspected. After such inspection, the cesspool, septic tank or seepage pit shall be filled to the level of the top of the ground.

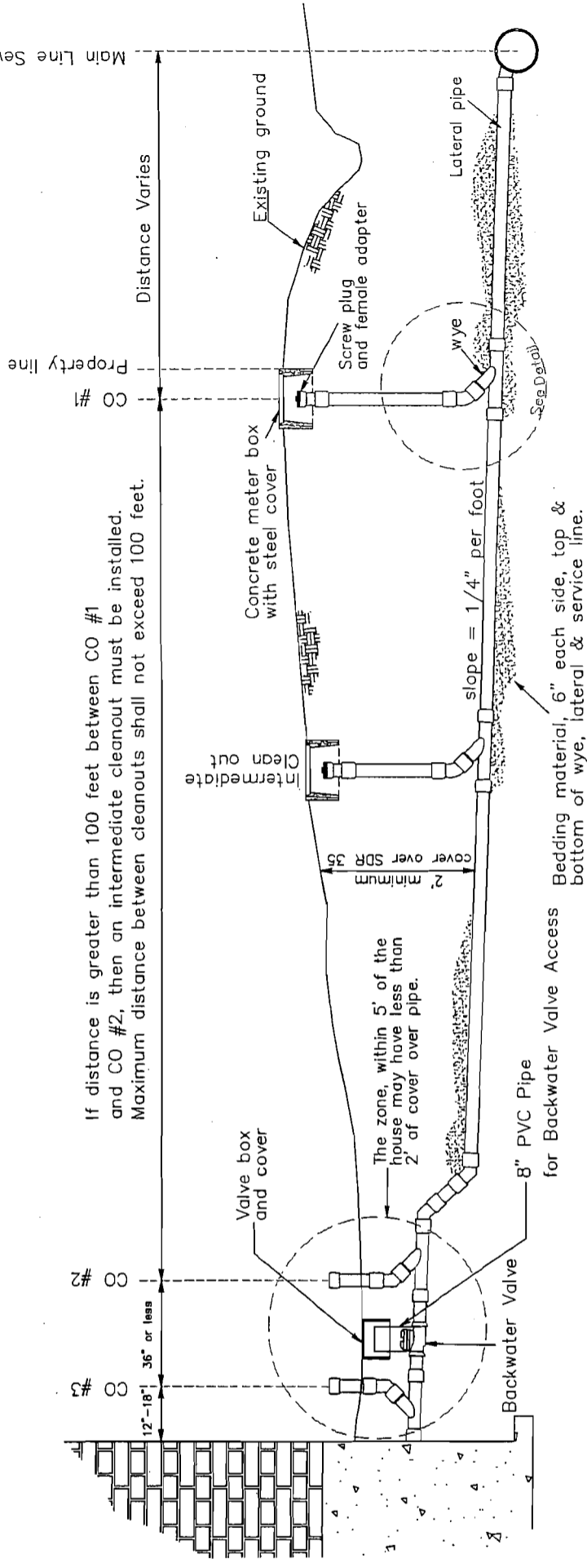
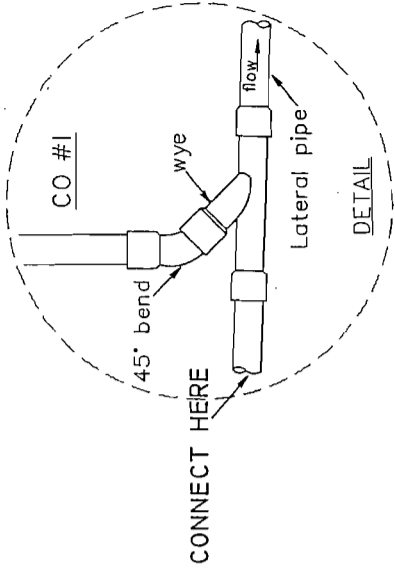
722.4 No person owning or controlling any cesspool, septic tank or seepage pit on the premises of such person or in that portion of any public street, alley or other public property abutting such premises, shall fail, refuse or neglect to comply with the provisions of this section or upon receipt of notice so to comply from the Authority Having Jurisdiction.

722.5 Where disposal facilities are abandoned consequent to connecting any premises with the public sewer, the permittee making the connection shall fill all abandoned facilities as required by the Authority Having Jurisdiction within thirty (30) days from the time of connecting the public sewer.

*see a current UPC book for the complete Table

NOTES:

1. See Std Detail S-4 for Typical Lateral Connection.
2. Minimum cover over Ductile Iron pipe in driveways shall be 6".
3. Cleanouts sized to service line (min. 4") in concrete meter box with steel cover.
4. Cleanout #3 & Backwater Valve may be 3" to match existing plumbing. All other cleanouts shall be 4" minimum.



STD DETAIL

S-10

RECOMMENDED SERVICE LINE INSTALLATION

Rev 8-23-18

STD DETAIL









S-10

Dig this:

- Arizona law defines excavating as "any operation in which earth, rock or other material in the ground is moved, removed or otherwise displaced by means or use of any tools, equipment or explosives and includes, without limitation, grading, trenching, digging, ditching, drilling, auguring, boring, tunneling, scraping, cable or pipe plowing and driving."
- Utility depth is not known or guaranteed. Lines, pipes and cables often shift underground. Facilities can be a few inches or several feet below surface.
- If you strike an underground utility, stop digging. Call the facility owner or operator directly. Do not try and repair damages.
- If you dig up an unknown line, stop working in the immediate area. Call 811 so qualified personnel can be sent to the site to determine if the line is active or abandoned.
- Utility marks are valid for 15 working days. If your project exceeds that timeframe, or if your marks disappear or are destroyed, contact Arizona 811 to have the marks refreshed. Marks must remain "visible and valid" for the duration of your project.
- Never dig outside the boundaries of your ticket or move or destroy locate marks.
- Facility owners and local municipalities mark only what they own and operate up to the point of sale, typically the meter. To have the lines you own marked, you'll need to hire a private locating company. Arizona 811 cannot recommend private utility locators; consult the Internet or Better Business Bureau.

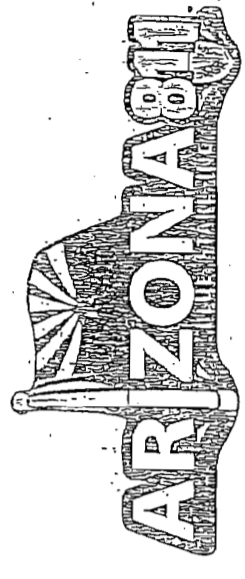
Know the Code

Utilities are marked in colors based on their type. Locators use the Uniform Color Code for Utility Markings so utilities can always be identified by their specific color, whether they're marked with paint, flags or whisksers:

	Proposed excavation
	Temporary survey
	Electric power
	Natural gas, oil, liquid fuels
	Communications, fiber optics, cable TV
	Water and slurry lines
	Reclaimed water
	Sanitary sewer systems

The Two-Foot Rule (Tolerance Zone)

Arizona law requires you to hand dig only within two (2) feet of marked facilities. This area is known as the Tolerance Zone and is off limits to mechanized equipment. Even when digging with hand tools, use caution to prevent injuries and damage to a facility. The law also requires you to "support and protect" any underground facilities you expose while digging until your project is complete.



Digging for any reason?

You must contact Arizona 811 at least two full working days in advance so underground utilities can be located and marked. It's free. It's easy. It's the law.



**Know what's below.
Call 811 or click Arizona811.com
before you dig.**

ARIZONA BLUE STAKE IS NOW ARIZONA 811



About Arizona 811

Arizona 811 was established as "Arizona Blue Stake" in 1974 and changed its name to Arizona 811 in 2014. It is the center you must contact



before excavating in any way, anywhere in Arizona, so underground utilities (also called "facilities") can be marked. Knowing the location of buried facilities is the simplest and easiest way to prevent accidental utility strikes, which keeps everyone safe; protects the vital utilities we all rely on every day; and protects the environment. Arizona 811 is a private, non-profit agency. Services are free and available statewide. Learn more at Arizona811.com.

Contacting Arizona 811

Hours of Operation:

6 a.m. to 5 p.m. Monday-Friday. Closed weekends and state holidays

To have utilities located before you dig:

- Call 811 from anywhere in Arizona or
- Go to Arizona811.com to create a ticket online 24/7/365 with E-Strike. Homeowners and contractors working at one residential address can use the quick and easy Single Address Ticket tool online, any time.

General contact information:

Phone: (602) 659-7500

Email: Customer.Support@Arizona811.com

Web: www.Arizona811.com



ARIZONA BLUE STAKE IS NOW ARIZONA 811

After You Contact Arizona 811

- Unless otherwise specified to you, Arizona 811 will notify the utility owners and operators in your area of your plans to dig. In response, each affected utility owner or operator (including municipal service providers) will send a utility locator to your dig site to mark the location of their underground lines, cables and pipes, or inform you they have no facilities in conflict with the dig site you identified.
- Utility locators have two (2) full working days to respond. You cannot begin digging until all of the locators have responded.
- Arizona 811 will provide you with a list of all utility owners and operators that could have facilities buried at your dig site. Do not dig until all of the utilities listed on your ticket have responded by putting marks on the ground (such as paint or flags); calling you; emailing you; or posting an online response.
- If you have not received responses from all utilities listed on your ticket after two full working days, or if you have questions about the marks, call 811.

Arizona Law

Arizona law (A.R.S. 40-360.21-31) says underground utilities must be marked before any type of excavation by anyone, including professional excavators, homeowners and anyone else whose work disrupts the sub-surface of the earth. This law is enforced by the Arizona Corporation Commission and is punishable by civil penalties of up to \$5,000 per violation. You could also be liable for repair and reimbursement costs and possibly face legal action (see reverse side for the legal definition of excavation).

Ticket and Dig Site Tips

- When you contact Arizona 811, be ready to provide 1) the specific location of your dig site; 2) a job-site description; and 3) a telephone number where locators can reach you or a field contact if they have questions or if they cannot find or access your dig site.
- Mark out your dig site in white if possible. Provide the boundaries or radius of the area you'll be digging in, or use white flags to indicate your dig site. When marking out a dig site, do not use any color other than white (see reverse side for color code information).
- Provide physical access to the dig site for utility locators. Unlock gates, provide gate codes and remove dogs or other pets from the yard. If locators cannot access your dig site, they will mark with the No Access symbol—a circle with a slash through it. You'll need to contact 811 again to start the process over, adding two more working days to your project.
- Calculate "two working days" correctly. Examples: If you plan to dig on Friday, contact Arizona 811 the prior Tuesday. The two working days are Wednesday and Thursday. Or, if you plan to dig on Monday, contact Arizona 811 the prior Wednesday. The two working days are Thursday and Friday. Weekends and state holidays do not count as working days.

Questions, comments or concerns?
For assistance, call 811 or email
Customer.Support@Arizona811.com.

July 2016