

Water T&D Construction Standard

ABANDONMENT OF EXISTING WATER SERVICE LINES

Application: Procedural issues for the abandonment of water services.

Abandonment of service lines is most often associated with replacement of an existing service line. Service line replacement is performed with the expectation that the existing service line will be removed. No abandoned service lines shall be allowed to protrude from the inside of the building wall (see page 3 of 3 in of this Standard). All service abandonment shall include a completed "Water Service Order".

The "Water Service Order" shall include the order number, address associated to service line, reason for action, MISS DIG # and the date wanted. The crew supervisor or inspector must complete the Water Service Order by filling out the date that work was completed and detailed description of physical properties and location of service line as indicated in the Water Service Order.

EXAMPLE:

CURB BOX/VALVE BOX LOCATION:

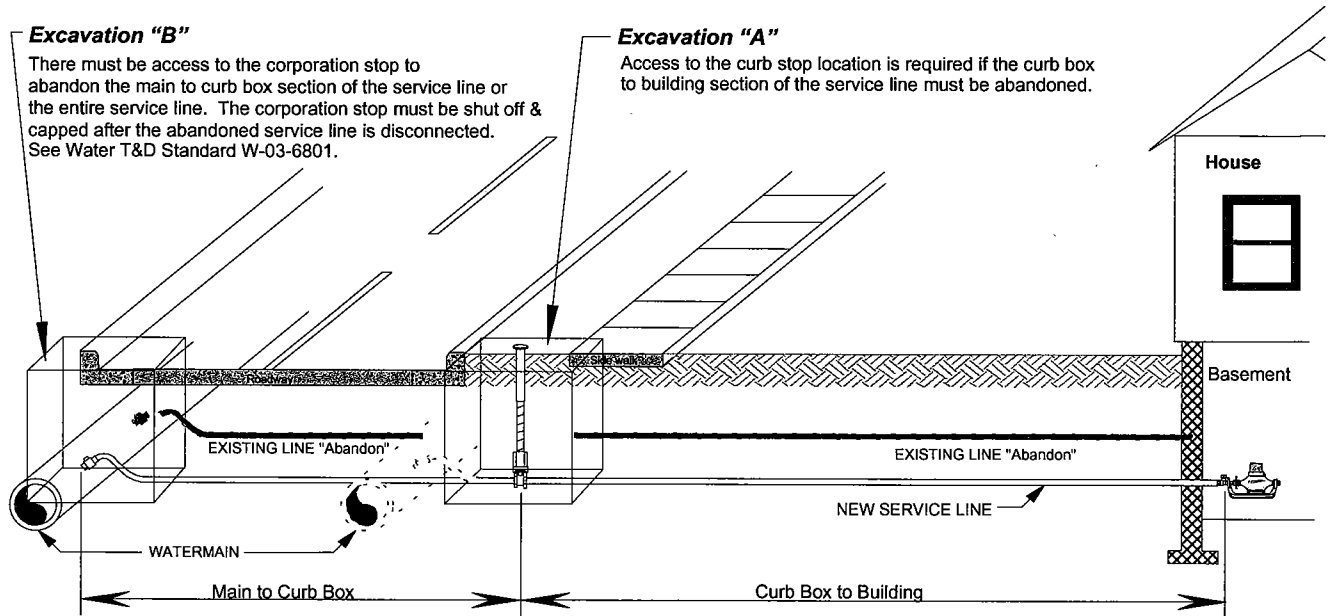
9' N of N Line Bldg.
2' E of W Line Bldg.
4' S of S curb

CORPORATION STOP:

54' N of Hyd. -
NE corner, Smith Rd. & Daly St.

The "NOTES" section of the service order shall be used for all additional information.

Service line abandonment may be documented as the "Main To Curb Box" section, "Curb Box to Building" section or the entire service line. Previous work may have replaced portions of the service line so only one of the two sections remains for the possibility of abandonment.



Director of Engineering DK Wood Date: 5/20/05
 Manager, Water T&D Resource Center B. McLeod Date: 5/23/05

GENERAL CONSTRUCTION NOTES:

If the watermain is located on the house side of the street (short side), excavation "B" may not be required. Watermain can be accessed through excavation "A" which may need enlarging to access the watermain and the curb stop. In this case the main to curb box portion of the service will always be removed and not abandoned.

- Never use a saw to cut lead service lines as dust particles created from sawing are a serious health concern when inhaled. Use only hook blade or bolt type cutters.
- A "Water Service Order" shall be completed in conjunction with each service replacement. The service order shall be forwarded to the Water T&D Resource Center no later than one week after completion of the work.
- Curb box to building service lines that cannot be removed and are to be abandoned, shall not leave the service pipe protruding from the building wall. Refer to page 3 of 3 of this Standard.

Excavation "A":

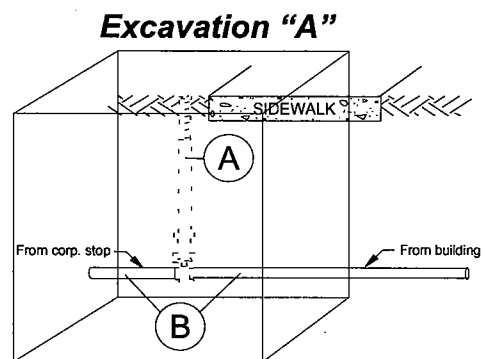
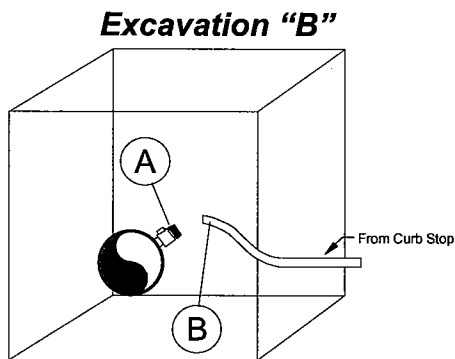
Generally, a pit will have been excavated for replacement of the existing service line. If not, one will need to be dug. Unearth the curb stop and expose 2 or more feet of service line on each side of the curb stop to visually verify the type of connections and material type of the service line, on both sides of the curb stop.

- (A) If service line is being abandoned, remove curb box unless otherwise directed by the Engineer In Charge.
- (B) Abandon service lines shall have the material type clearly noted on the "Water Service Order" or "Service Card". Service line material for both service sections shall be verified for abandonment. If a service line is to be abandoned, and the curb box resides within 10' of a tree trunk or within the trees root structure, the requirement for excavation shall be reviewed by the LBWL Engineer.

Excavation "B":

Required for abandonment of the main to curb box service section when the curb box to building service section has been removed or if the entire service is to be abandoned. If it has not already been created due to new service line installation, a pit will be required to access the corporation stop at the watermain.

- After closing the corp. stop, visually inspect for leaks. Leaks from the discharge opening (end) of the corp. stop are not a significant concern, install the cap to complete the abandonment. If the corp. stop leaks from the top or bottom of the operating valve, the corp. will require removal and a repair sleeve must be installed.
- Have a repair sleeve prepared and in place in case of corp. stop failure.
- (A) Corp. stop shall be turned off and capped. No leaks shall be visible from the corp. stop for proper abandonment. Refer to Standard W-03-6801 for materials needed to cap existing 1/2", 5/8", 3/4" & 1" lead thread corp. stops.
- (B) Existing service material may only be abandon in place once it is disconnected from main.



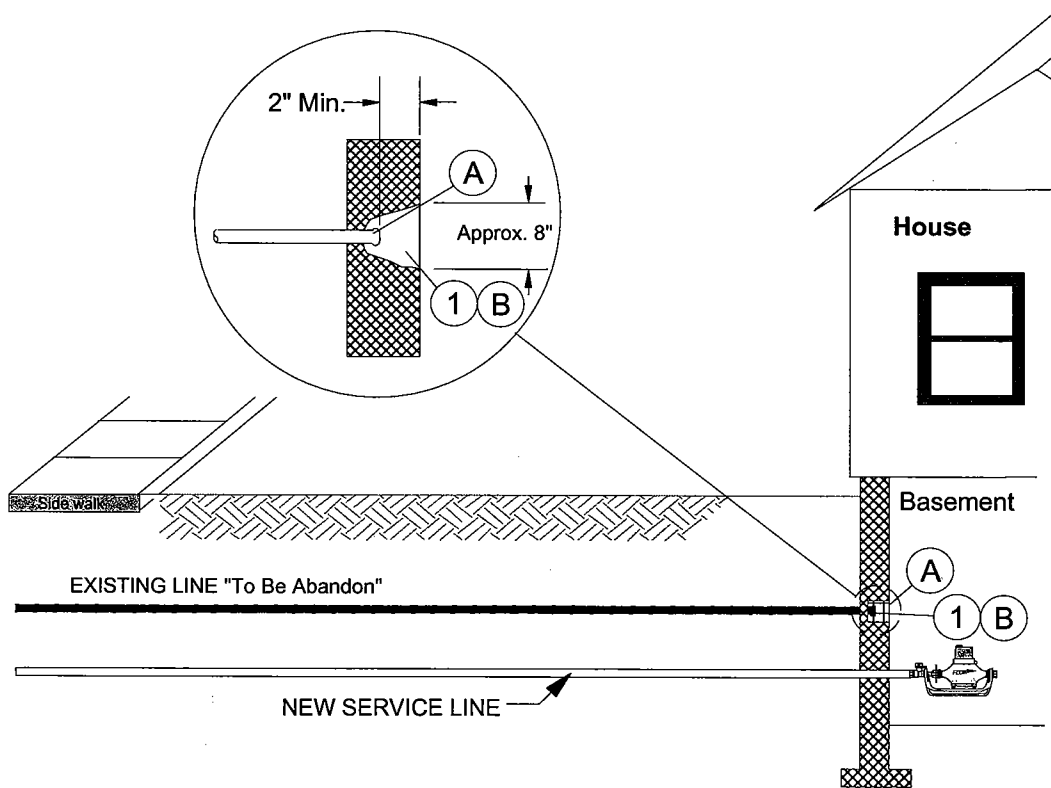
Director of Engineering DK Wood Date: 5/20/05
 Manager, Water T&D Resource Center B. M. Lued Date: 5/23/05

Service Line Protruding From Building Wall :

When there is no possibility of pulling the curb box to building portion of the service line out from Excavation "A", the service line protruding from the inside building wall must be addressed. Abandoned service lines shall not protrude from the building wall and the subsequent hole shall be properly filled.

(A) Chip an opening approx. 8" in diameter around the service line being abandoned. Use caution not to damage the exterior wall when chipping out around the service line. Cut the service line as deep into the wall as possible (2" Minimum). **DO NOT USE A SAW TO CUT LEAD SERVICE LINES. USE ONLY HOOK BLADE OR BOLT TYPE CUTTERS AS DUST FROM THE CUTTING ACTION MAY BE HAZARDOUS IF INHALED.** Fill the interior of the remaining pipe with an expanding foam insulation to create a water-tight seal. The end of a lead service line can be deformed with a hammer to further seal the end and recess it into the wall. When completed, the service line should be internally sealed for approx. 4" of length, at the end, with the service line terminating within the thickness of the basement wall. The void in the wall can then be filled.

(B) Using LBWL approved cement patch or hydraulic cement, fill the entire void created by the removal of the service line from the wall keeping flush surfaces on the inside wall patch.



MATERIALS			
REF	ITEM	QTY	DESCRIPTION
①	49-02007	1 - 5/gal	Cement, Patch compound, "Speed Crete"

Director of Engineering

K. Kerboel

Date: *5/20/05*

Manager, Water T&D Resource Center

B. McLeod

Date: *5/23/05*