

CHAPTER 6

NEW LATERALS

Adding New Service Connections

Connection of a new service lateral to an existing sewer main can be accomplished by the use of various available tap saddle connection kits. The installation requires core drilling a hole using a diamond impregnated core bit into the existing sewer main (see Figure 25). Tap saddle connection kits are commonly available in two styles:

1. connects to the mainline internally through the core drilled hole (see Figure 26).
2. connects externally to the mainline using epoxy or strap clamps around the pipe barrel.



Figure 25: Core drill used to add a service to an existing pipe line.



Figure 26: Hole cored in clay jacking pipe to reconnect a lateral following a pipe burst.

Another method is to cut and remove a section of the existing mainline followed by inserting a plain end tee or wye fitting with rubber compression couplings on each end. Cutting of the pipe can

be accomplished by using a demolition saw equipped with a diamond impregnated saw blade or a chain snap cutter. For reconnection to the existing mainline pipe, two couplings are needed for each new fitting installed. The replacement branch spur can be a plain end or jointed pipe (see Figures 27 and 28).



Figure 27: Cutting out a section of main line to insert a factory made, plain-end wye fitting.



Figure 28: Wye fitting for lateral service connection to main line made using shielded rubber couplings.