



MICHELS PIPE SERVICES

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LATERAL SEALING PROCEDURE NEW INSTALLATION OF FOLD AND FORMED LINER

1. Preparatory Procedures

- A. Cleaning of the line is performed to eliminate any obstructions that would prevent the lateral packer from seating properly over the lateral to be sealed.
- B. During the cleaning process, the line is “strung” with a small cord. This cord will be attached to the end of a winch cable during lateral grouting operations.

2. The Equipment

- A. The lateral sealing inversion tube is designed to accommodate two sizes of laterals, 4-inch and 6-inch diameters, with a tube for each size. The 4-inch inversion tubes are designed to handle two lengths of laterals, one approximately two feet long and the other approximately four feet long. The 6-inch inversion tubes are one length to facilitate sealing of approximately two feet of the lateral.

3. Grouting

- A. The lateral is isolated pulling the packer into position over the lateral. The ends of the lateral packer are then inflated as is the inversion tube into the lateral. This completely isolates the lateral connection. Chemical grout sealant is pressure injected through the lateral packer into the annular space between the inversion tube and the lateral pipe. Under pressure, the grout material is then forced out into the soil through leaking joints and pipe defects. All grouting operations is video taped.
- B. Upon completion of the lateral sealing procedure the lateral is pressure tested to verify the sealing of the connection. The test is performed with the “AP” side of the grout mixture. With a satisfactory pressure test the lateral packer is retracted and moved to the next lateral. If the pressure test fails, the sealing procedure is performed a second time.

4. Completion

- A. After a line segment(s) are completed, a final “rinse” of the pipeline is performed to ensure any residual chemical grout is removed from the line.