

# CCTV Inspection and Analysis

Before the first observation is made, it is important that the operator and reviewer fully understand the operation and capabilities of the equipment as well as the pipe material and joint design to be inspected. (See figures 3, 4, 5 and 6 on pages 5 and 6 showing joint designs currently in use).

Today's television equipment offers high resolution and the flexibility to view conditions at all angles. To reduce the distortion that can be caused by wide-angle lenses, the camera must be kept as near to the centerline of the pipe as possible. Maintaining camera alignment with the pipe is also critical in achieving accuracy when recording pipe conditions. Observations can be distorted by the camera lens, light intensity and a change in camera alignment.

Keep in mind that what you see may be exaggerated in size and scope. Comprehensive operator training on the operation of the CCTV equipment and software is critical. This training helps to eliminate unnecessary and costly dig-ups.



*Figure 10: Operations and maintenance staff should be trained in various options for installing laterals and repairing lines.*