

- E. Keep a record of all tests and make them available for inspection. Hand over test records to the Engineer for approval.
- F. Pipes or joints shall not be accepted if any leakage or damage is visible during an internal inspection.
- G. If the result of any test or inspection does not comply with the requirements of the specification, the Contractor shall investigate the reason and carry out remedial work to the approval of the Engineer at no cost to ADM. The pipeline shall then be re-tested. This process shall be repeated until the requirements of the specification are satisfied.
- H. The Contractor may be required to incorporate a 300mm tee on property connection laterals near the junction of the main drain and this tee may be used to insert an expanding stopper in the lateral for testing purposes. On the satisfactory completion of such tests, remove all temporary fittings from the lateral. Provide the tee with a watertight or plug.

18.3.5 Field Deflection Measurement of Pipelines

- A. For pipeline length greater than 6.0m measure the horizontal and vertical deflections for all GRP pipes at each end at points 100mm away from the joint, 1.5m away from the joint and at 3.0m intervals hereafter. For pipeline lengths of equal to and less than 6.0m, measure the mentioned deflections at each end at a point 100mm away from the joint, and at the mid-point. For GRP pipes installed with granular bed and surround, take measurements on at least three separate occasions as follows.
 - i. After the pipe surround material has been placed and compacted to 150mm above the pipe crown. Do not proceed with further pipe laying until this test has been satisfactorily completed.
 - ii. On completion of all backfill material up to ground level but before the dewatering is removed. Take this measurement within one day of the completion of backfilling.
 - iii. Immediately prior to the issue of a Provisional Acceptance Certificate.
- B. For GRP pipes with concrete surround, carry out the deflection testing as in stages (i) and (ii) above. For proving the pipes immediately prior to the issue of the Provisional Acceptance Certificate, draw a pig or ball through the pipeline, sized so that it will not pass any point in the pipeline which