

- c) The pipeline shall be inspected for deflection and ovality immediately after 600 mm of the soil envelope has been placed to obtain a reference status. The final deflection shall be taken 30 days after the backfill has been built up to final ground level. The Contractor is advised to check for deflection at all times so that he may make corrections during the backfill construction phase.
- d) When fully installed and completely backfilled to ground level the deflection inclusive of any initial ovality shall not be more than 5.0 % based on the base outside diameter and measured 30 days after installation.
- e) If the visual inspection or the deflection test indicates excess deflection, the Contractor shall determine the exact cause of the deflection before proposing a remedy.
 - i. Isolated areas of severe deflection may be the result of construction loads being on the pipe before adequate cover has been placed. These areas may be able to be re-rounded with special equipment without any excavation. Long lengths of pipe with high deflection levels may be indicative of overall installation deficiencies. The Contractor shall submit proposals for corrective action in the event of unacceptable deflection or upon indications of poor installation likely to cause future distress to the pipeline.
 - ii. Depending on the severity, the material around the pipe may have to be excavated and replaced with the recommended backfill and compacted. Provided the pipe has not deflected to the point of reverse curvature, it may be allowed to be returned to its original round shape before acceptance.

END OF SECTION