

25.1.3 Definitions

- A. Envelope: Fill placed under, beside and directly over pipe, prior to subsequent backfill operations, used to provide a permeable path for water to move into the pipe openings from the base material and to hold the base material in place.

25.1.4 Submittals for Review

- A. Product Data: All data pertaining to pipe and pipe accessories' manufacturer & supplier, constituent materials, process of manufacture, properties, compliance certificates, design calculations, etc. shall be provided.
- B. Detailed shop drawings shall be submitted as per Section 01300, of the pipes, joints, reinforcement cage assemblies, all pipe specials, together with the pipe laying diagram and schedule showing the following:
1. Full details of each pipe, fittings, joints and assembly, location, length, design designation and designation by number.
 2. Joint materials, gaskets and details.
 3. Liner materials and details.
 4. All data on curve and bends for both horizontal and vertical alignment.
 5. All details relating to handling and storage of pipes.
 6. All testing procedures and details, with diagrams, of deflection measurement apparatus.
 7. Procedures for building pipes into concrete structure.
 8. Detail and location of existing utilities as determined by manual excavation.

25.1.5 Submittals for Information

- A. Manufacturer's Installation Instructions: Special procedures required to install specified Products shall be indicated.
- B. Manufacturer's Certifications of compliance with standard specifications for all pipe products shall be submitted.

25.1.6 Submittals at Project Closeout