

SECTION 02733

POINT REPAIR

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Point repairs (spot repairs) are work required to prepare defective sections of existing sewer lines for rehabilitation. Excavation from the surface is required to accomplish the necessary repairs. Generally, the work will require repair of existing sags, offset joints, cracks, protruding laterals, removal and replacement of short sections of damaged pipe, and any other defects deemed necessary after the initial and/or final video inspection.
- B. Flow control, if required to accomplish the repair, shall be performed as described in Section 02732, Part 3, Subsection 3.01, Paragraph C.5.
- C. The CONTRACTOR shall repair the point repairs after determining that it is necessary and approved by the Engineer. The work shall include verifying the location of the point repair, locating all interfering utilities, temporary flow bypassing, excavation, shoring, dewatering, pipe repairs or replacement, backfilling, and surface restoration.
- D. All point repairs discovered through subsequent investigations, and/or directed by the Engineer, shall be completed prior to rehabilitating the pipe by grouting or lining or other method of repair. The exact location of the point repairs will be determined by the Contractor and approved by the Engineer after the pipe is exposed. All work to expose and correct the defects, and the materials and methods used shall conform to the applicable specifications, including excavation and backfill, surface restorations, pipe installation, and sewer flow control.
- E. All point repairs shall be visually inspected and measured by the Engineer prior to backfilling.
- F. Supplying all labor, materials, equipment and apparatus not specifically mentioned herewith or noted on the plans, but which are incidental and necessary to complete the work specified.

1.02 JOB CONDITIONS

- A. The Contractor shall conduct operations and schedule cleanup in a manner to cause the least possible obstruction and inconvenience to traffic, pedestrians and to adjacent property owners or tenants.

1.03 SUBMITTALS

- A.** The Contractor shall submit to the Engineer for approval, a detailed plan including the location, method, and lineal footage or each location of spot repairs prior to the actual work.
- B.** The Contractor shall submit a plan for bypassing sewage around the work area and facilities where sewage flows must be interrupted to carry the work. The plan shall be reviewed by the engineer and shall be acknowledged as acceptable before any work is started.

PART 2 - PRODUCT - NOT APPLICABLE

PART 3 - EXECUTION

3.01 Notification

- A.** The Contractor shall notify the Engineer not less than 48 hours in advance of the time he plans to begin repair work at a particular location within the project.
- B.** After the point repair is located and exposed, the Engineer will inspect the damaged pipe and confirm the required repair and methods proposed by the Contractor.

3.02 Repair Methods

- A.** One or a combination of the following methods could be used. Method selected from below or recommended by the Contractor, shall be subject to approval by the Engineer prior to its installation.
 - 1. Repair Clamp: Install full circle repair clamps as recommended by the manufacturer and approved by the Engineer. All metallic hardware shall be 316 stainless steel.
 - 2. Heat-Shrink Sleeve: Install in accordance with manufacturer's recommendations.
 - 3. Remove and Replace Pipe and Fittings: Remove defective pipe or fittings to the nearest joint or by cutting perpendicular to the pipe axis to leave a plain end. Prepare a replacement section of like pipe material or as otherwise approved by the Engineer or shown on the drawings. Make connections using standard joints, repair clamps, couplings, or heat-shrink sleeves.

3.03 Backfill

- 1. Backfill, including pipe bedding, shall be placed and compacted as specified in Section 02202, "Trenching and Backfill", of this Specification.
- 2. Flow shall be returned into the repaired section prior to placement of backfill.

3. The Contractor shall correct any settlement of backfill which may occur within the guaranty period at no cost to the Agency.

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