

DECOMMISSION PIPE

**** From Peru STP SCRP(4)**

- xx. DESCRIPTION. This work shall consist of the abandonment of existing pipe(s) at the location(s) shown in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Sections 541 and 601 of the Standard Specifications.

- xx. MATERIALS. Material for flowable fill shall meet the requirements of Section 541 and the following Table. Any substitutions must be submitted to the Engineer for approval.

Class	Minimum Cement (lbs/cy)	Max Water-Cement Ratio	Range in Slump (in)	Air Content (%)	Coarse Aggregate Table	28-Day Comp. Strength (psi)	
Controlled Density (Flowable) Fill	100 & 300 lbs of *Fly Ash, Class F	3	8 min.	10 min.	704.01 (fine aggregate)	125 max.	---

*Shall meet the requirements of ASTM C618

- xx. CONSTRUCTION REQUIREMENTS.

- (a) General. The Contractor shall notify Bromley a minimum of two (2) weeks prior to the start of pipe abandonment in order that Bromley may remove their equipment located inside the existing downstream structure.

The Contractor shall video inspect and record the entire length of the existing drain line to be abandoned. A copy of the inspection video shall be provided to VTrans. There is a known obstruction at the location of the pit adjacent to VT Route 11 and the parking lot. The inspection video shall be reviewed and any other obstructions identified.

The existing diversion structure outlets shall be securely sealed prior to abandonment.

- (b) Pipe Abandonment. The Contractor shall submit a methodology, procedure, and sequence for pipe abandonment, including all materials required, to the Engineer for approval. Pipe abandonment shall not commence prior to approval by the Engineer.

The submitted sequence shall include excavation at the sinkhole location.

Suggested sequence of operations is as follows:

- (1) Seal outlets of existing diversion structure.

- (2) Abandon existing diversion structure with Controlled Density (Flowable) Fill and let cure.
- (3) Excavate pit to expose existing pipe at the approximate location shown in the Plans. Excavation pit shall be over the existing sink hole.
- (4) Remove any debris in exposed pipe and remove portion of existing pipe within excavated pit.
- (5) Abandon downstream section of existing pipe by pumping Controlled Density (Flowable) Fill into the pipe and let cure. All voids shall be filled.
- (6) Seal downstream end of the upstream section of the existing pipe and fill excavated pit with approved backfill material and compact.
- (7) Abandon the remaining upstream section of the existing pipe using the existing upstream structure for access.
- (8) Fill the remaining portion of pipe as specified herein.
- (9) Construct a brick and mortar or approved equal plug on the existing outlet pipe. Any annular space behind the brick and mortar plug shall be filled with non-shrink grout prior to completion of the brick and mortar plug.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Decommission Pipe) to be measured for payment will be on a lump sum basis for pipe abandonment performed in the complete and accepted work.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Decommission Pipe) will be paid for at the Contract lump sum price. Payment will be full compensation for performing the pipe abandonment, **including furnishing and placing flowable fill;** video inspection; making required submittals, and furnishing all materials, labor, tools, equipment, and incidentals necessary to complete the work.

Filling excavated abandonment pit and restoring the area used for pipe abandonment to the satisfaction of the Engineer will be paid for separately under the appropriate Contract items.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.645 Special Provision (Decommission Pipe)	Lump Sum