**Special Note for Cored Hole Drainage Box Connector**

1. **DESCRIPTION**.

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Section references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Contractor staking; (2) Site preparation; (3) Core drill a hole in the side of an existing small drainage structure to connect the outlet end of a proposed pipe, instead of constructing an outlet headwall; (4) Maintain and Control Traffic; and (5) all other work specified as part of this contract.

1. **MATERIALS**.

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

* 1. **Maintain and Control Traffic**. See the Traffic Control Plan.
	2. **Erosion Control**. See the Special Note for Erosion Control.
	3. **Non-Shrink Grout**. Conform to Subsection 601.03.03 (B).
	4. **Asphalt Mastic Joint Sealing Compound**. Conform to Section 807.
	5. **Pipe**. Conform to Subsection 704.02. Furnish the same type and size as the underdrain pipe.

**Culvert Pipe**. Furnish the same type and size as the existing culvert pipe being connected to the existing small drainage structure. Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer’s approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.

* 1. **Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).
	2. **Styrofoam Backer Rod**. Obtain the Engineer’s approval.
1. **CONSTRUCTION**.
	1. **Maintain and Control Traffic**. See the Traffic Control Plan.
	2. **Erosion Control**. See the Special Note for Erosion Control.
	3. **Site Preparation**. Be responsible for all Site Preparation, including but not limited to removing pavement; roadway excavation and structure excavation; removal of obstructions or any other items; embankment and embankment in place; ditching, shouldering, roadside regrading, reshaping, and compacting backfill material; cleaning drainage structures; obtaining borrow and waste sites; disposal of materials, waste, and debris; and restoration, cleanup, and final dressing
	4. **Core Hole Drainage Box**. Cut hole by core drilling into existing drainage structure at the location, or locations, specified in the Contract or where the Engineer directs, without damaging the existing structure. Cut holes of a diameter equal to the outside diameter of the proposed pipe with a tolerance of plus 1/2 inch. Place 2 styrofoam backer rods on the pipe near each wall face and seal the opening around the pipe with mastic material or a non-shrink grout. Use wyes, tees, and ells in the pipe system to reduce the number of holes to be drilled. Patch all damage to the existing wall in the coring operation with non-shrink grout. Apply non-shrink grout according to Subsection 601.03.
2. **MEASUREMENT**. The Department will measure the quantity by each individual unit. The Department will not measure pipe, wyes, tees, ells, styrofoam backer rods, or repair of damage to existing wall for payment and will consider them incidental to this item of work.
3. **PAYMENT**. The Department will make payment for the completed and accepted quantities under the bid item Cored Hole Drainage Box Con (Size). The Department will consider payment as full compensation for all work required.