

**NATURAL RESOURCES CONSERVATION SERVICE  
CONSTRUCTION SPECIFICATION**

**IA-9 DRAINAGE TILE INVESTIGATION AND REMOVAL**

**1. SCOPE**

This work will consist of the investigation, location, and removal of drainage tile near new or existing animal waste storage or wetland restoration facilities.

**2. INVESTIGATION AND LOCATION**

An inspection trench at least 10 inches wide shall be dug at the location shown on the drawings or as directed by the engineer. The trench shall be at least 6 feet deep measured from the original ground line. The engineer shall examine the trench and excavated material to locate tile lines. Backfilling shall not be started without approval of the engineer. After inspection all trenches shall be backfilled.

**3. TILE REMOVAL**

On new facilities all tile lines located within the area bounded by the investigation trench shall be removed. Drainage tiles found upgrade from the structure shall be rerouted as directed by the engineer.

On existing animal waste facilities the owner shall contact the Iowa Department of Natural Resources (IDNR) for permission to remove the drainage tile under the structure. The structure shall be emptied of waste or lowered to a point below the tile prior to its removal. The structure must be retested for percolation and the results submitted to IDNR and approval received prior to reusing the structure. An alternative to removing tile on existing facilities is to grout the entire length of tile with concrete or Portland cement grout.

**4. SPECIAL SPECIFICATIONS**