

**NATURAL RESOURCES CONSERVATION SERVICE
CONSERVATION PRACTICE SPECIFICATION**

**UNDERGROUND OUTLET
(feet)
CODE 620**

SCOPE

This specification covers the installation of underground outlets. Construction shall be according to the plans and these specifications.

INSTALLATION

Materials. Materials for underground outlets shall meet the requirements shown in the plans and also shall be field inspected for any defect or drainage. Pipe and tubing with physical imperfections shall not be installed.

Installation. Underground outlet system shall be constructed as shown on the plan. Conduit lines should be installed and properly backfilled prior to placement of earth fill for the storage basin. All appurtenant structures, including trash and animal guards, shall be installed promptly, and provisions shall be made for protecting them during installation.

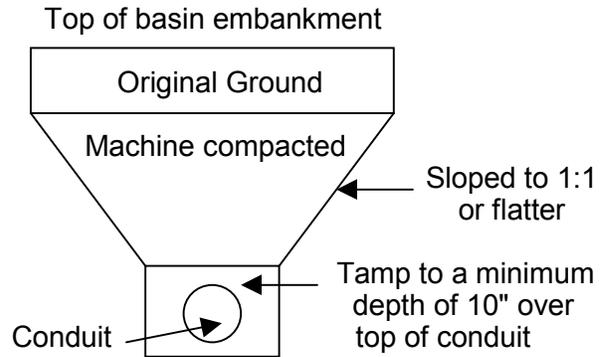
Trench excavation. Conduit lines shall be buried deep enough to provide at least 30 inches cover.

The bottom of the trench shall be grooved in the center for proper conduit bedding. Maximum trench width shall be 24 inches.

If the conduit line is to be installed in a rock trench, or where rock is exposed in the bottom of the trench, enough rock shall be removed below grade to provide at least 2 inches of compacted earth fill bedding.

Trench backfill. Earth backfill material shall be placed in the trench in such a manner that displacement of the conduit line will not occur. Fine grained soil material shall be used for blinding around the conduit prior to machine backfilling. Excess excavated material shall be mounded over the conduit trench.

Backfill under the basin embankment shall be placed in the trench in 6-inch layers and tamped until a depth of at least 10 inches over the top of the conduit is reached. Water packing of the backfill material may be used in lieu of tamping. The remainder of the trench shall be sloped to 1:1 or flatter and may be machine compacted. Required backfilling operations under the basin embankment are shown in the following detail:



Conduit line. Conduit line joints shall be made with standard couplers or fittings installed in accordance with instructions furnished by the manufacturers. Open ends of the conduit lines shall be capped with standard end caps or by concreting.

Inlet. Inlets shall be constructed as shown on the plans. Inlet holes shall be smoothly cut and burr free. Orifice plates, when specified, shall fit tightly and have a smooth edge.

SAFETY

Landowners or operators, sponsoring organizations, and contractors are liable for damage to utilities and damage resulting from disruption of service caused by construction activities. The Natural Resources Conservation Service makes no representation on the existence or nonexistence of any utilities. Absence of utilities on plan drawings is not assurance that no utilities are present at the site.

It is the responsibility of the landowner or operator to determine if there are buried or overhead utilities in the vicinity of the proposed work. They should take proper procedures to insure that the utilities will not be jeopardized and that equipment operators and others will not be injured during construction operations.