

Transverse and backslope subdrains require only single outlets. Install double outlet pipes on all longitudinal subdrain systems, except at the beginning and end of the system. At these locations, install a single outlet pipe.

- 1 Perforated Subdrain (Polyethylene Corrugated Tubing).
- On projects where existing shoulder material is removed, replace the shoulder material in accordance with Article 2502.03, C of the Standard Specifications.
- (3) 'Y' or 'T' connection will not be allowed. Place subdrain on 1 foot minimum radius.
- (4) Direction of flow.
- (5) 6" minimum drop in elevation between longitudinal subdrain and outlet. 12" minimum drop for projects using recycled PCC subbase.
- (5) On all projects except those using recycled PCC subbase, install a removable grate rodent guard fabricated from aluminum, hot-dipped galvanized steel (galvanized according to ASTM A 123), or other approved materials. For projects using recycled PCC subbase, install a removable fork rodent guard.
- If metal pipe is used, the pipes should be coupled in one of the following ways: (1) Use an inside fit reducer coupler (coupler must be inserted a minimum of 12" into CMP):or (2) Insert 12" of the 4" subdrain into the 6" metal outlet pipe, then fully seal the entire opening with grout.
- (8) Bevel the trench to provide a minimum of 3" of porous backfill surrounding all portions of subdrain pipe.
- (9) Corrugated metal pipe outlet 2" larger than existing subdrain pipe, or corrugated double-walled PE or PVC pipe of the same diameter as the existing subdrain pipe.
- (1) Place class 'A' crushed stone or Special Backfill over outlet and carefully compact to avoid damaging outlet pipe.
- (1) Minimum 2" if attached to double walled PVC. Minimum 3.75" if attached to corrugated metal pipe.
- (2) Minimum 0.09" thick metal ring. Minimum 17 guage (0.054") expanded sheet metal grate. Expanded sheet metal may be either flattened or standard.
 - Possible Contract Item:
 - Subdrain Outlet, RF-19E

Possible Tabulation: 104-5C

