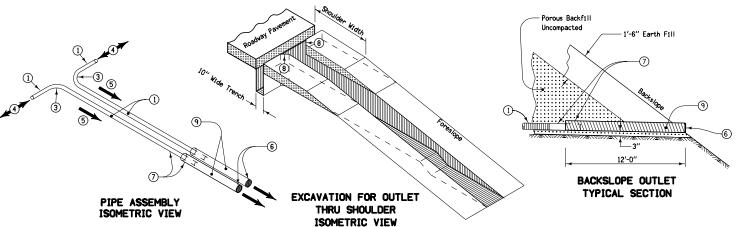


Transverse and backslope subdrains require only single outlets. Double outlet pipes shall be used on all longitudinal subdrain systems, except at the beginning and end of the system. At these locations, a single outlet nine shall be used

- 1) 4" perforated subdrain (Polyethylene Corrugated Tubing).
- ② On projects where existing shoulder material is removed, the shoulder material shall be replaced in accordance with Article 2502.05 of the Standard Specifications.
- (3) 'Y' or 'T' connection shall 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.
- (E) Removable grate rodent guard shall be used on all projects except those using recycled PCC subbase. For projects using recycled PCC subbase, use the removable fork rodent guard. See Materials I.M. 443.01.
- 6" corrugated metal pipe outlet or 4" corrugated double-walled PE or PVC pipe with an appropriate coupler. 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) Trench shall be beveled to provide a minimum of 3" of porous backfill surrounding all portions of subdrain pipe.
- ① 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.
- (ii) Class 'A' crushed stone or Special Backfill shall be mounded over outlet and carefully compacted to avoid damaging outlet pipe.



Contract Item:

Subdrain Outlet, RF-19E

Tabulation:

104-5C

