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. Fill annular space with non-shrink grout.
2. Outlets through intake walls to be CMP, corrugated, double-walled HDPE, or PVC.
3. Extend outlet pipe into structure as required to install removable rodent guard.
4. Construct subdrain outlet to ditch with the same type and size of pipe as used for the subdrain.
5. Provide a minimum 1 foot radius for all bends or use two 45° fittings.
6. If a CMP outlet is specified in the contract documents, construct the final 10 to 12 feet of the subdrain outlet to ditch with CMP 2 inches larger than the subdrain pipe. Connect pipes with a manufactured coupler or concrete collar.
7. Provide a minimum trench width of 12 inches for a single outlet and 24 inches for a double outlet.
8. Provide a 6 inch minimum drop in elevation between longitudinal subdrain and outlet.
9. Use only rodent type rodent guard for subdrain outlet to ditch.

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