

# Culvert Designs that Permit Unrestricted Fish Passage



These bottomless or embedded culverts were sized so they are wide enough to carry baseflows without altering stream depth (i.e., width equal to or slightly greater than the average channel width).



The culvert is installed at a relatively flat gradient to allow substrate to colonize the culvert's interior and maintain natural flow velocity.

Culverts, set at bankfull elevation (top) or with baffles constructed at bankfull height carry flood waters but do not overwiden the channel at baseflow.