



# HO Structure Kit CONCRETE CULVERTS 933-4558

Thanks for purchasing this Cornerstone kit. All parts are made of styrene plastic so use compatible glue and paint to assemble and finish your model. PLEASE NOTE: A length of 3/8" (9.5mm) styrene tube (we recommend Evergreen #233, not included) can be used to add interior detail to the Pipe-style Culvert if desired. For ease of assembly or layout planning, you may wish to have the tubing on hand before starting construction. One of the most common structures found under railroad and highway rights-of-way are various types of culverts. Although similar to a bridge, they're actually covered by an embankment, and direct the flow of water underneath the right-of-way, to prevent damage. Size will vary depending on local conditions, and small single or larger multiple units can be found at locations too small to warrant a bridge. Designs also have to be strong enough to support the weight of the topsoil, and the live load from passing trains or traffic. The most common types include the rectangular shaped Box-style made of concrete, which can be cast on site or prefabricated, and the Pipe-style, which mounts a length of standard steel pipe in concrete exterior walls. Based on standard designs used for decades, your new model includes parts for 2 of either box- or pipe-styles and can be easily installed with existing or new scenery. For additional ideas to complete your scene, see your dealer, visit us online at [walthers.com](http://walthers.com) or see the latest Walthers Model Railroad Reference Book.

## Before Starting

While the finished culverts can be set in place, prototype photos will show typical installations, and help you plan any adjustments to existing track, roads or scenery. Prototype installations have an end wall on each side, for each style of Culvert, make two end walls as follows.

## Box -Style

1) Two styles of Aprons (3 or 4) are included: choose one. Align pins on Left (1) and Right (2) Wing Walls as shown and glue to Apron where parts meet. Complete assembly by gluing Head Wall (6) to Apron, and at inside corners where it meets the Wing Walls.

## Barrels

2) To detail the interior of your Box-style Culverts, parts are included to model four Barrels. Align pins on Walls (2x 8) with openings in Slabs (2x 7) and glue where parts meet. Completed Barrels can be glued end-to-end to desired length, and to inside of completed Box-Style Culvert ends.

## Pipe-Style

3) Two styles of Aprons (3 or 4) are included: choose one. Align pins on Left (1) and Right (2) Wing Walls as shown and glue to Apron where parts meet. Complete assembly by gluing Head Wall (5) to Apron, and at inside corners where it meets the Wing Walls. If desired, cut a piece of 3/8" (9.5mm) diameter tube to the desired length: align with inset area on Head Walls and glue where parts meet.

