

SECTION 00595 - REINFORCED CONCRETE BOX CULVERTS

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

Comply with Section 00595 of the Standard Specifications modified as follows:

00595.10 Cast-in-Place Materials - Replace the paragraph that begins "Unless otherwise shown ..." with the following paragraph:

Unless otherwise shown, furnish Class 3300 - 1 1/2" or 3/4" portland cement concrete.

00595.11 Precast Materials - Replace the paragraph that begins "Unless otherwise shown ..." with the following paragraph:

Unless otherwise shown, furnish portland cement concrete according to the following:

00595.42(c) Rejection - Replace this subsection, except for the subsection number and title, with the following:

Sections not meeting fabrication or shop assembly tolerances are rejected. The Inspector's inspection of any Material, Work, or finished members will not prevent their subsequent rejection, if later found damaged or defective, nor relieve the Contractor of the responsibility to correct or replace the Work at no additional cost to the Agency.

00595.43(a) Repair Cracked or Damaged RCBC - Replace the bullet that begins "Cracks 0.01 inch or wider..." with the following bullet:

- Cracks 0.01 inch or wider and greater than 12 inches long that do not pass through the wall or slab thickness.

Replace the bullet that begins "Chipped or spalled edges ..." with the following bullet:

- Chipped or spalled edges 1 inch and greater in depth from the end of the bell or spigot and not exceeding the depth of the joint provided the cumulative length of chip or damage is not more 50 percent of the RCBC span or rise, whichever is greater, and no individual length of chip or damage is more than 25 percent of the structure's span or rise, whichever is greater. Provide a repaired sealing surface free of spalls, cracks, or imperfections that would adversely affect the performance of the joint. Replace sections with chipped or spalled edges exceeding these values.

(Include the following bullet if welding is to be performed. Select the appropriate 00560.26(a) for bridge size culverts or 00560.26(b) for non-bridge culverts. Check with the designer.)

00595.44 Precast Installation - Replace the bullet that begins "Horizontal and Vertical Joint ..." with the following bullet:

- Horizontal and Vertical Joint Variation - The maximum variation between mating surfaces in any assembled transverse joint, between Box Sections before grouting, is no more than 1/2 inch. The allowed joint width variance is no more than 3/8 inch over the length of the joint.

Add the following to the end of this subsection:

- Perform structural steel welding according to (00560.26(a) or 00560.26(b)).

(Use the following .80 for estimated quantities for wing walls and aprons.)

00595.80 Measurement - Add the following to the end of this subsection:

The estimated quantities of reinforcement and concrete for wingwalls and aprons are:

(Fill in the appropriate amount of wingwall and apron reinforcement and concrete. Delete wingwall items that do not apply. Obtain information from the Bridge Designer.)

	Reinforcement (Pound)	Concrete (Cubic Yard)
Wingwalls:		
Cast in Place
Precast
Aprons

00595.90 Payment - Add the following paragraph to the end of this subsection:

Item (e) includes CIP wingwalls and precast wingwalls with precast footing.

Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, including reinforcement and concrete, and for providing all Equipment, labor, and Incidentals necessary to complete the Work as specified.