

The DBT shall repair longitudinal cracks in existing concrete bridge parapets by removing and replacing full width portions of the top of parapet while retaining the existing reinforcing steel. The height of the parapet removal shall be determined by the DBT and approved by the Engineer. For bidding purposes, the DBT shall assume removal and replacement of the upper 12" of the parapet, and there will be one or more repair locations per run of parapet. The DBT shall saw cut the boundaries of proposed concrete removals 1" deep. Remove concrete to a rough surface taking care to not damage existing reinforcing steel. If any reinforcing steel is damaged in the course of performing any work, repair or replace the steel at no cost to the Department as directed by and to the satisfaction of the Engineer. New reinforcing steel shall be epoxy coated. Field coat any uncoated, bare reinforcing steel with an approved epoxy material and allow for a full cure prior to placing any encapsulating material such as concrete. The use of explosives, headache balls and/or hoe rams shall not be permitted. The method of removal shall be approved by the Engineer. Perform all work in a manner that will not cut, elongate, or damage the existing reinforcing steel. Chipping hammers shall not be heavier than the nominal 90-pound class. Pneumatic hammers shall not be placed in direct contact with the reinforcing steel. Submit construction plans according to CMS 501.05. Abrasively clean joint surfaces and existing exposed reinforcement to remove disintegrated concrete and loose rust. Thoroughly clean the joint surface and exposed reinforcement of all dirt, dust, rust or other foreign material by the use of water, air under pressure, or other methods that produce satisfactory results. The existing reinforcing steel does not have to have a bright steel finish, but remove all pack and loose rust. Thoroughly drench existing concrete surfaces with clean water and allow to dry to a damp condition before placing concrete.

All work shall be performed in accordance with CMS 202 – Portions of Structure Removed and CMS 511 – Class QC2 Concrete, Bridge Deck (Parapet), however all compensation shall be included in Item 511 – Concrete Misc: Parapet Crack Repair (Ft.) measured horizontally along the face of the parapet repair.