

**SECTION 656 - DRILLING HOLES AND INSTALLING
DOWEL REINFORCING BARS**

656.01 Description. This section describes drilling holes and installing dowel reinforcing bars where new concrete is to be joined to existing concrete by means of dowel reinforcing bars grouted into holes drilled into existing concrete.

656.02 Materials.

Reinforcing Steel	602
Epoxy-Resin Adhesive	712.02
Epoxy Grout	712.04(B)

Submit test certificates indicating conformance of materials to standards referenced in this subsection.

656.03 Construction.

(A) Drilling and Installation. Drill holes by methods that will not shatter or damage concrete adjacent to hole. Unless otherwise specified or shown on plans, diameter of drilled holes shall be 1/2-inch larger than nominal dowel diameter. Holes encountering longitudinal or transverse reinforcement during drilling will be rejected. Adjacent to rejected hole, drill new hole to required depth, avoiding existing reinforcement. Place dowel reinforcing bars after drilling to depth shown on plans and cleaning holes of dust and residue. Fill holes with epoxy grout after removing fine particles.

(B) Inspection. Before filling holes with epoxy grout, notify the Engineer that holes are ready for inspection.

656.04 Measurement. The Engineer will measure drilled holes and installed dowel reinforcing bars per each in accordance with contract documents.

656.05 Payment. The Engineer will pay for the accepted pay items below at the contract unit price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and contract documents.

656.05

41 The Engineer will pay for the following pay item when included in the proposal
42 schedule:

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44 **Pay Item** **Pay Unit**

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46 Drilling Holes and Installing Dowel Reinforcing Bars -
47 _____ Bridge Each

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49

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END OF SECTION 656