

SECTION 393 CRACKING AND SEATING OF PCC PAVEMENT (New Section)

393.1 DESCRIPTION

The work consists of cracking and seating concrete pavement prior to placing an asphalt concrete leveling course.

393.2 EQUIPMENT

- A. **Pavement Breaker:** Pavement cracking shall be accomplished with a spade or guillotine type breaker mounted on a vehicle capable of controlled forward and transverse movement. The breaker shall be capable of fracturing the pavement to the full depth, while maintaining the fractured face interlock of the aggregate.
- B. **Roller:** A pneumatic roller with a minimum loaded weight of 30 ton (27.2 metric ton) shall be used to seat the cracked pavement.

393.3 CONSTRUCTION REQUIREMENTS

- A. **General:** When cracking and seating begins it shall proceed continuously, during normal work hours, until the set of lanes under construction is completed. The pavement shall be seated on the same working day that it is cracked. The blade laid asphalt leveling course shall be placed within 72 hours after the pavement has been cracked and seated. PCC pavement cross-overs shall be cracked with the same pattern used for the driving lanes.

Work shall be performed during daylight hours. The cracked surface shall be cleaned of loose material at the end of each working day.

- B. **Pavement Cleaning:** Prior to cracking the concrete pavement, existing bituminous overlays shall be removed. Removal of all traces of the overlays will not be required.
- C. **Cracking Locations:** Pavement cracking shall be performed transverse to centerline at two foot intervals \pm six inches (600 mm \pm 150 mm). Breakers shall not be operated closer than two feet (600 mm) from an existing transverse joint. Cracking shall be full pavement depth without loss of interlock.
- D. **Test Section:** Before routine cracking operations commence, the Contractor shall demonstrate on a 200 foot (60 m) test section on the project that the cracking and seating procedure is satisfactory to the Engineer. When inspecting the cores for cracking, it may be necessary to wet the core to verify cracking.

The Contractor shall core or saw samples of sufficient size to establish adequacy of cracking. A minimum of four samples will be required in the test section and one sample per lane mile for routine operations.

If subsequent samples indicate that the established cracking procedure is not

producing acceptable results, additional test sections may be required to re-establish an acceptable cracking and seating procedure.

- E. Seating:** The cracked pavement shall be seated by a minimum of two passes with the pneumatic roller. If two roller passes have not provided a firm seating of the cracked pavement, the rolling shall continue until the Engineer determines that the seating is adequate or pavement removal is required.
- F. Cleaning:** The cracked and seated pavement shall be cleaned of dirt, spalls, and loose material by power brooming and air blowing with 100 psi (0.69 MPa) nominal pressure prior to tack coating.

393.4 METHOD OF MEASUREMENT

- A.** PCC Cracking and Seating will be measured to the nearest 0.1 square yard (0.1 square meter).
- B.** Cored or sawed samples will be per each.

393.5 BASIS OF PAYMENT

- A.** PCC Cracking and Seating will be paid for at the contract unit price per square yard (square meter) and shall be inclusive of cracking, seating, test strips, surface cleaning, and all tools, equipment, and labor necessary to perform the work.
- B.** Coring or sawing of samples will be paid for at the contract unit price per each and will include all tools, equipment, and labor necessary to perform the work.