

## 1.0 GENERAL

### 1.1 Scope

- 1.1.1 The work shall consist of excavating and placing a 200 mm lift of concrete base in areas where proper compaction of asphalt gutter patches cannot be achieved or as directed by the Engineer.

### 1.2 Related Sections

- 1.2.1 Section 2500 – Supply of Portland Cement Concrete

## 2.0 PRODUCTS

### 2.1 Concrete

- 2.1.1 Concrete Extension shall conform to Section 2500 for Supply of Portland Cement Concrete having a minimum compressive strength of 15 MPa.

### 2.2 Reinforcing Steel

- 2.2.1 All reinforcing steel shall be epoxy-coated and shall conform to the requirements of CSA G30.12-M, Billet-Steel Bars for Concrete Reinforcement. Epoxy coating shall meet the requirements of ASTM A775M Standard Specification For Epoxy-Coated Reinforcing Steel.

## 3.0 EXECUTION

### 3.1 Construction

- 3.1.1 The area in which the extension is to be placed shall be cleaned out to ensure that a 200 mm lift of concrete base can be placed. The concrete shall be placed to 50 mm to 75 mm below the lip of gutter or as shown on the plans or as designated by the Engineer. The concrete shall be surfaced raked to give a rough texture. The exposed gutter repair shall be properly barricaded for the protection of pedestrians and vehicular traffic until the asphalt patch of overlay is placed.
- 3.1.2 Where it is practical, the concrete (base) extension must be placed in one continuous section. At cold joints between existing and new concrete base or when construction joints are allowed, 10M epoxy coated steel dowels, 600 mm long, shall be placed at 1.0 metre intervals unless otherwise designated by the Engineer.
- 3.1.3 Where width of concrete base is less than 300 mm in parking lanes, dowels may be left out.
- 3.1.4 After the concrete has been finished to cross-section and as soon as the concrete has set sufficiently, the entire surface shall be sprayed with a concrete curing compound in a manner and in such quantity as will be directed by the Engineer.

- 
- 3.1.5 The Contractor shall maintain on the job, sufficient canvas or other suitable covering to protect all freshly laid concrete from the action of the elements and to allow the concrete to cure properly.
  - 3.2 Materials Testing Requirements for Quality Control Materials Testing
    - 3.2.1 Minimum frequency of materials testing shall be in accordance with Section 2500 for Supply of Portland Cement Concrete.