

## **ITEM 01502.5010 M - FULL DIAMOND GRINDING AND TEXTURING OF CONCRETE PAVEMENT**

### **DESCRIPTION**

Diamond grind the entire portland cement concrete pavement at the locations indicated on the plans such that a minimum 95% of the surface area is textured.

### **MATERIALS (Equipment)**

Use diamond grinding equipment specifically designed with gang mounted diamond saw blades. The grinding machine must have a vacuum pickup to continually remove the slurry and residue from the pavement surface. Use continuous grinding equipment such as the Target 3800 or Target 3804 or equal as approved by the Director, Materials Bureau.

### **CONSTRUCTION DETAILS**

Determine the blade spacing between 1.50 and 3.25 mm based on the aggregate hardness. Inform the Engineer of the spacing.

Arrange the grinding operation such that successive grinding operations progress within a time period that will insure the proper maintenance of traffic. Grind the pavement in a longitudinal direction parallel to the pavement centerline in the areas designated on the plans. Grind across the entire lane surface. Grind in a manner that eliminates joint or crack faults while providing positive lateral drainage by maintaining a constant cross slope between grinding passes.

Continuously remove the slurry from the pavement using a vacuum pickup. Deposit the slurry in a truck equipped to transport the liquid material off the job site. Do not allow the slurry and residue to flow across lanes occupied by traffic or into drainage structures.

After grinding, both sides of joints and/or cracks must be substantially in the same plane. Misalignment of the planes of the surfaces on adjacent sides of the joint or crack which is in excess of 2 mm, when measured with a 1 m straight edge, must be reground. Test ground surfaces with a 3 m long straight edge held both parallel and transverse to the pavement centerline. Surface deviations greater than 3 mm in 3 m must be reground until this tolerance is achieved.

### **METHOD OF MEASUREMENT**

Square meter of acceptable finished surface regardless of the number of passes required. The quantity of grinding will be determined by measuring the finished area ground.

### **BASIS OF PAYMENT**

Include the cost of all labor, equipment, materials, supplies, water and incidentals necessary to grind the pavement including removing slurry and residue.