

**ITEM 04502.8010 M - SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - FULL**

**DEPTH**

**ITEM 04502.8011 M - SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - RESTORE TRANSVERSE JOINTS (Stage 2)**

**ITEM 04502.8012 M - SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - RESTORE LONGITUDINAL JOINTS (Stage 2)**

**ITEM 04502.8013 M - SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - INITIAL SAW CUT (Stage 1)**

**DESCRIPTION**

This work shall consist of making various types of saw cuts in concrete pavement for repairs at locations as shown in the contract plans, or as directed by the Engineer and in accordance with this specifications.

**MATERIALS**

(None Specified)

**CONSTRUCTION DETAILS**

**General Requirements** - The saw shall be equipped with a diamond saw blade, guides capable of making straight cuts, cut depth controls, and water cooling system. No carbide-tooth wheel saws shall be allowed. The Contractor shall keep all sawing equipment in working order to ensure that the work is uninterrupted and have an adequate supply of replacement saw blades. The Contractor shall replace any equipment that in the opinion of the Engineer is not working satisfactorily.

All saw cuts shall be perpendicular to the pavement surface. Saw cuts for restoring transverse joints shall be made parallel to the existing transverse joints. Saw cuts for restoring longitudinal joints shall be made parallel to and maintain the centerline of the existing longitudinal joint. The Contractor shall be responsible for locating the centerline of the joint prior to saw cutting. Pavement that is improperly saw cut shall be deemed as damaged and repaired as specified by this specification.

**Full Depth Saw Cuts** - Full depth saw cuts (one longitudinal and two transverse) are required for each Portland cement concrete pavement removal location. The Contractor shall mark out clearly where the full depth saw cut will be made. The mark out shall be as specified in the contract plans or as directed by the Engineer. All transverse saw cut mark outs shall be a minimum of 150 mm from any area of deteriorated concrete. After receiving the Engineer's approval of the mark out, the Contractor shall make the full depth saw cuts to allow for pavement removal.

Full depth longitudinal saw cut shall cut through the existing longitudinal joint ties. Where pavement repairs are required in adjacent lanes, the Contractor shall mark out and saw cut the pavement as one continuous cut across the lanes to be repaired. The transverse saw cut shall extend far enough into the adjacent lane so that the saw cut can be continued and no sawing into newly placed concrete repairs will be necessary. No over sawing into concrete to remain will be permitted. When longitudinal saw cuts have been made for adjacent pavement removal no additional longitudinal saw cut shall be required.

**Restoring transverse joints** - The Contractor shall restore transverse joints at the following locations:

For all full depth pavement removal locations where new concrete abuts existing concrete and load transfer devices are installed as shown in the contract plans or as directed by the Engineer.

For full slab placements where transverse joint supports are installed as shown in the contract plans or as directed by the Engineer.

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Restoring of the joint shall be completed by making a stage 2 saw cut as dimensioned in the contract plans and at the above location.

**Restoring longitudinal joint** - The Contractor shall restore the longitudinal joint for all full depth pavement removal locations where new concrete abuts existing concrete as shown in the contract plans or as directed by the Engineer. Restoring of the joint shall be completed by making a stage 2 saw cut as dimensioned in the contract plans.

**Initial saw cut** - The Contractor shall make a stage 1 saw cut according to the dimensions and at the locations shown in the contract plans.

**Damage** - The Contractor shall be responsible for making and protecting all saw cuts to the pavement as specified by the contract plans or as directed by the Engineer. Damage to the Pavement resulting from improper saw cutting or any operations that damage the saw cut edges or adjacent pavement, as determined by the Engineer, shall be repaired according to §502-3.15 Defective or Damaged Concrete.

**Sealing of joint** - The Contractor shall seal any joints constructed under this specification as directed in the contract documents or as specified by the Engineer.

**METHOD OF MEASUREMENT**

This work shall be the number of meters field measured along the centerline of the saw cut for the sawing accomplished in accordance with the plans, this specification and as directed by the Engineer.

**BASIS OF PAYMENT**

The unit price bid shall include the cost of all labor, materials, and equipment necessary to complete the work. Pavement removal, load transfer devices, transverse joint support systems, longitudinal joint ties and sealing of the joints will be paid for under a separate items.

| ITEM         | DESCRIPTION   | UNITS |
|--------------|---|-------|
| 04502.8010 M | SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - FULL DEPTH                             | METER |
| 04502.8011 M | SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - RESTORING TRANSVERSE JOINT (Stage 2)   | METER |
| 04502.8012 M | SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - RESTORING LONGITUDINAL JOINT (Stage 2) | METER |
| 04502.8013 M | SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - INITIAL SAW CUT (Stage 1)              | METER |