

**ITEM 04502.8028 M - SAWING CONCRETE FOR PCC PAVEMENT REPAIRS**  
**- FULL DEPTH**  
**ITEM 04502.8029 M - SAWING CONCRETE FOR PCC PAVEMENT REPAIRS**  
**- ESTABLISHING JOINTS (Stage 2 Saw Cut)**

**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**

Materials shall conform to the following specifications:

Anchoring Materials - Chemically Curing . . . . . 701-07

**CONSTRUCTION DETAILS**

**General Requirements** - The marking of saw cuts shall be as specified in the contract plans or as directed by the Engineer. All saw cuts shall be perpendicular to the pavement surface. Saw cuts for transverse joints shall be made parallel to the existing transverse joints. Saw cuts for 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.

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.

**Full Depth Saw Cuts** - The Contractor shall be solely responsible for making the full depth saw cuts in the concrete pavement for completion of the pavement repairs. The full depth saw cut shall be made around the perimeter for each pavement repair location. When Maintenance and Protection of Traffic allows work to be completed in only closed travel lanes the full depth saw cut shall be made around the perimeter of the repair and the closed lane. When repairs extend into or are located in adjacent lanes, the Contractor shall saw cut the longitudinal joint between the lanes only once, cutting the longest required dimension to remove the repair area. When pavement repairs in adjacent lanes have the same starting location or are of the same size, the saw cut shall be one continuous cut across the lanes to be repaired.

The Contractor is advised, when the concrete pavement slabs are in a state of compression between adjacent slabs, there is a risk of adjacent pavement slab movement when sawing and/or making a pressure relief cut. The Contractor shall use their expertise to ascertain the current pavement condition as to whether a pressure relief cut is needed before making saw cuts. If the Contractor determines that pressure relief cut is needed to facilitate sawing and/or pavement slab removal, the Contractor shall use their expertise to determine at what time and where a pressure relief cut is to be made. Prior to making a pressure relief cut, the Contractor shall mark out adjacent transverse joint locations for (3) three slabs on either side of where the pressure relief cut will be made. After making the pressure relief cut the Contractor shall measure and record any slab movement and give the results to the Engineer. The Contractor shall be responsible for any damage incurred to the concrete pavement to remain, as a result of the Contractors sawing and/or of making a pressure relief cut, including any damage due to slab movement. All damage to the concrete pavement shall be repaired in accordance with section 502-3.15 defective or damaged concrete. The Contractor shall not saw cut the pavement more than 10 working day in advance of the pavement repair. The Engineer will not allow saw cutting to continue until the Contractor's repair work progresses to within the above time frame.

The saw cuts shall be over run to ensure the entire repair is cut to the same depth. The Contractor shall keep all over sawing to a minimum. All over sawing shall be filled before a significant temperature change with a anchoring material (chemically curing) meeting the requirements of section 701-07 of the standard specification. The Contractor shall be responsible for filling over sawed areas. Any damage to the pavement, prior to filling, at these location shall be repaired according to §502-3.15 Defective or Damaged Concrete.

**Establishing Joints** - The Contractor shall make stage II saw cuts for each location where the Contractor made a

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stage I saw cut or as directed by the Engineer. The stage II saw cuts shall be according to standard sheets for stage two saw cuts, as modified in the contract plans or as specified by the Engineer.

**Damage -** The Contractor shall be responsible for making and protecting all saw cuts to the pavement. If in the opinion of the Engineer, the saw cut is damaged by the Contractor's operations or not protecting the saw cut edges, then the Contractor shall repair the pavement according to §502-3.15 Defective or Damaged Concrete. Full depth pavement cuts may be moved 50 mm and re-cut if approved 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 saw cutting work. Pavement removal, stage I saw cuts, 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
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04502.8029 M	SAWING CONCRETE FOR PCC PAVEMENT REPAIRS - ESTABLISHING JOINTS (Stage II saw cut)	METER