

## ITEM C410.01 SAWING AND SEALING BITUMINOUS CONCRETE PAVEMENT JOINTS

### DESCRIPTION

This work shall consist of saw cutting and sealing transverse joints on the new bituminous concrete pavement and shoulders. Bituminous concrete pavement joints shall be constructed over, and in line with, the existing underlying transverse Portland cement concrete pavement and bridge joints in accordance with the plans and as directed by the ENGINEER.

### MATERIALS

Joint Sealant. The joint sealant shall meet the requirements of ASTM D3405, Polymer Sealing Compound, Hot Applied for Concrete and Asphalt Pavements. Pourable Sealant will be accepted on the basis of manufacturer's certification that it conforms to the requirements of these specifications.

### CONSTRUCTION DETAILS

1. General. The CONTRACTOR shall conduct his operation so that saw cutting of transverse joints, cleaning, and sealing is a continuous operation. Sawcutting, cleaning, and sealing shall be done within four (4) days after placement of the top course of asphalt concrete. Traffic shall not be allowed to knead together or damage the sawed joints before sealing operations.
2. Sawcutting of Transverse Joints. The CONTRACTOR shall saw cut transverse joints to the dimensions shown on the plans. The saw cut joints shall be directly over the existing Portland cement concrete pavement joints and shall be accurately located by a method employing pins or stakes. The pins or stakes shall be accurately located prior to paving. Details of the method for locating the saw cuts shall be subject to the approval of the ENGINEER.

The blade or blades shall be of such size that the full width and depth of the saw cut can be made with one pass. Dry or wet cutting will be allowed.

3. Cleaning. Dry sawed joints shall be thoroughly cleaned with sufficient amount of compressed air to remove any dirt, dust, or deleterious matter. Wet sawed joints shall be thoroughly cleaned with a water blast to remove any sawing slurry, dirt, dust, or deleterious matter. Wet sawed joints shall be blown with compressed air to provide dry joint surfaces prior to sealing.
4. Sealing. Joint sealant material shall be heated in a kettle melter constructed as a double boiler, with the space between the inner and outer shells filled with oil or other heat transfer medium. Positive temperature control and mechanical agitation shall be provided. Heating must be in strict accordance with the manufacturer's recommendation.

After cleaning, the joints shall be immediately sealed in one continuous pass, with

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the hot-poured sealant. The seal shall completely fill the joint such that after cooling, the level of the sealer will not be greater than 1/8" below the pavement surface. Care shall be taken in the sealing of the joints so that the final appearance will present a neat fine line.

**METHOD OF MEASUREMENT**

This work will be measured as the number of linear feet of saw cuts incorporated in the work.

**BASIS OF PAYMENT**

The unit bid price per linear foot of joints shall include the cost of all labor, materials, and equipment necessary to complete the work, including the furnishing and placing of the joint filler material.

Payment will be made under:

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Pay Unit</u></b>
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