

**“Hot Mix Type” - Item No.**

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Special Provision No. BITU0030

January 2023

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**Additional Requirements for the use of an Infrared Joint Heater**

An infrared joint heater shall be used:

- a) At the time of paving [\* Designer Fill-in, See Notes to Designer];
- b) At the longitudinal joint between [\*\* Designer Fill-in, See Notes to Designer] of the work;
- c) When paving in echelon is not being used.

The make, model, capacity and type of infrared joint heater shall be provided to the Contract Administrator a minimum of 10 Business Days prior to the start of the paving operation.

Each longitudinal joint and 50 mm of the adjacent pavement shall be heated using an infrared joint heater. The hot mix asphalt (HMA) at each joint shall be heated to a temperature of 80 to 150 °C immediately prior to placement of the new HMA. The infrared joint heater shall apply heat in a uniform manner.

Paving shall stop when the existing or adjacent pavement at the joint has one or more of the following conditions:

- a) When the temperature exceeds 150 °C.
- b) Burns.
- c) Chars.
- d) When the temperature drops below 80 °C.

When paving is stopped for any one of the conditions listed above, it shall be demonstrated to the satisfaction of the Contract Administrator, that the equipment will no longer overheat, under heat, burn or char the pavement prior to paving resuming. The deficient work shall be removed and replaced or assessed for a payment adjustment at the discretion of the Owner.

Should the infrared joint heater break down during paving, the Contract Administrator may permit that Day's work to be completed provided the longitudinal joint is painted with tack coat according to OPSS 308.

**NOTES TO DESIGNER:**

**\* Designer Fill-In**

Regional Geotechnical Section to recommend which hot mix asphalt courses require the use of infrared joint heaters.

**\*\* Designer Fill-In**

Regional Geotechnical Section to recommend if the joint between all lanes and shoulders or specific lanes will require the use of infrared joint heaters. (If the joint heater is to be used on all joints and lanes/shoulders then fill in “all lanes and shoulders”, or if only on specific lanes for example “speed change and outside main lanes”.)

WARRANT: With asphalt items in consultation with the Regional Geotechnical Section.

CUSTODIAN: EMO - Bituminous