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3.18 SURFACING BRIDGE DECKS3.18.1 GENERAL

The work shall consist of surfacing bridge decks with asphalt concrete, removing existing asphalt pavements, or removing and replacing asphalt pavement on bridge decks and/or bridge approaches as called for in the plans, the special provisions or as designated by the Consultant.

3.18.2 MATERIALS

Asphalt concrete mix as produced under Specification 3.50, Asphalt Concrete Pavement-EPS will be accepted under this specification.

The requirements under Section 3.50.2, Materials, in Specification 3.50, Asphalt Concrete Pavement-EPS shall apply.

3.18.3 CONSTRUCTION

Detouring of traffic will not be allowed unless permission is granted by the Department in writing. The requirements in Specification 3.50, Asphalt Concrete Pavement-EPS shall apply in all respects for construction of asphalt concrete pavement under this specification except that vibratory compaction will not be permitted. Compaction requirements shall be achieved by static rolling only.

Where an existing pavement is required to be removed from bridge decks and/or approaches, the work shall be performed with equipment and in a manner acceptable to and approved by the Department before the work commences. Cold milling of ACP on bridge decks shall not be permitted.

The Consultant may direct the removal, by cold milling, of asphalt concrete pavement on bridge approaches beyond the tie-in requirements listed in Specification 3.50 for Transverse Pavement Joints. In this case, if a unit price for this work is not contained in the Contract, the work shall be performed on an Extra Work basis in accordance with Specification 1.2, General.

The Contractor shall take ownership of all debris and dispose of it in a manner suitable to the Consultant.

Damage to bridge components and appurtenances due to the Contractor's operations shall be repaired by the Contractor at no cost to the Department.

The exposed concrete bridge deck shall be thoroughly cleaned of all dirt and debris to the satisfaction of the Consultant.

The cleaned bridge deck shall be tack coated with two applications of an SS-1 emulsified asphalt.

The SS-1 emulsion material, as delivered by the supplier shall be diluted by adding an equal amount of water and the first of the two applications shall be applied at a rate of 1.0 kg per square metre.

The second application shall not proceed until the first has cured or as approved by the Consultant and shall be applied at the rate of 0.5 kg per square metre.

Cutback type asphalts will not normally be used but the Consultant may permit their use for tacking bridge decks if delays will be incurred due to low ambient temperatures that do not permit the use of emulsions.

If a cutback asphalt is used for the tack coat, the first coat shall be applied at the rate of 0.5 kg per square metre. The second application shall not proceed until the first has cured or as directed by the Consultant, and shall be applied at the rate of 0.25 kg per square metre.

Normally, the depth of surfacing will be a nominal 50 mm. The Consultant may adjust this depth as necessary to match up to existing gutters, joints, etc. to ensure a satisfactory riding surface is achieved.

The Contractor shall take all necessary precautions to ensure that deck joints and drains are left clear and open upon completion of his paving operation. The finished pavement surface shall be free of depressions capable of retaining water.

Where improvements are to be made to bridge approaches, the Consultant will detail the work required.

The Department may restrict loading on bridge decks.

3.18.4 MEASUREMENT AND PAYMENT

Removal and disposal of existing asphalt concrete pavement from bridge decks will be measured in square metres and payment will be made at the unit price bid for "Removal of Asphalt Concrete Pavement From Bridge Decks".

Removal and disposal of existing asphalt concrete pavement and other subgrade excavation material from bridge approaches will be measured in cubic metres and payment will be made at the unit price bid for "Subgrade Excavation".

Surfacing bridge decks will be measured in tonnes of mix and payment will be made at the unit price bid for "Asphalt Concrete Pavement-EPS".