

06060 Pressurized Grout Injection**Index**

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06060-1 General

Supply all material, equipment, labour and supervision necessary to bore pavement, to supply and install pressurized grout as well as filling of bore holes.

06060-2 Scope

The general intent of this work is to stabilize the subgrade only. This work is not intended to slabjack the asphalt or change the cross section.

06060-3 Material

The maximum strength of the cement grout shall be 0.5MPa at 28 days, with a minimum strength of 0.3MPa at 28 days.

The maximum size aggregate to be used in the grout shall be 2.5mm.

The grout shall contain a minimum of 25kg of cement per cubic metre.

The use of fly ash shall be permitted in the cement grout.

Prior to the beginning of work, a mix design must be supplied to the Engineer which in part indicates, a 7 day and a 28 day compressive strength.

The Contractor must also provide the Engineer with the results of a concrete yield test. (SCA A 23.1.2-6C)

06060-4 Construction

The Contractor shall supply, erect and maintain all barricades and signs required to ensure the safe passage of vehicles and pedestrians.

If the roadway being grouted cannot be maintained open to traffic, the City shall divert traffic as required.

The Contractor shall ensure all underground utilities are located before any drilling takes place.

The Contractor shall core through the pavement structure to a point 1.2 metres into the roadbed.

Grout will be forced under pressure into the core holes until refusal.

Upon completion of the grouting the bore hole is to be struck off level or filled with asphalt mix.

The Contractor will be required to supply and install a minimum of 15m³ of grout each working day.

06060-5 Measurement and Payment

Measurement and payment for pressurized grout injection will be on a two part basis. Payment for drilling of injection bore holes will be based on a unit cost per each hole drilled. Payments shall include drilling the 1.2 metre deep hole, disposing of all cuttings and finishing the hole level with an impervious material.

Payment for supplying and injecting grout will be based on a unit cost per cubic metre of grout injected. Measurement will be based on weigh tickets produced at the production plant as well as summary of the weights of each component used in producing the final product. The result of the concrete yield test will provide the conversion used to convert the weights to a volume for the payment.

End of Specification 06060