

ITEM 17203.3504 M - FURNISHING GROUTING EQUIPMENT

DESCRIPTION

Furnish grout equipment capable of placing the contract grout items under pressure, as indicated in the plans and specifications.

MATERIALS

Not specified.

Submittals

The Contractor shall furnish to the Engineer the specifications for the equipment, including delivery rates and set up schemes.

CONSTRUCTION DETAILS

The grout mixer shall be a high speed, high shear mixer, capable of continuous mixing of the contents at a minimum operating speed of 1500 RPM. The arrangement of the grouting equipment shall be such as to provide a continuous circulation of grout throughout the system.

The equipment shall be adequate to furnish a continuous supply of grout to the locations and at the pressures indicated on the plans or specifications. Equipment which, in actual operation, proves inadequate to satisfactorily complete the work shall be immediately removed from the job site and replaced with equipment satisfactory to the Engineer.

Pumping of grout shall be limited to a maximum length of 150 m from the grout plant to the connection at the grout hole. A standby grout pump shall be included in the equipment available at the site.

The delivery nozzle shall have a bottom shut-off which will not allow the infiltration of water into the nozzle. It shall be capable of passing through the pre-drilled holes and discharging the grout to an elevation shown on the plans. A sealing collar shall fit between the discharge pipe or nozzle and the grout pipe.

Standby water flushing equipment shall be maintained available by the Contractor. The standby water flushing equipment shall utilize a different power source than the grouting equipment, have sufficient capacity to flush out any partially grouted holes if necessary due to blockage or breakdown of grouting equipment, and shall be capable of developing at least 2050 kPa.

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METHOD OF MEASUREMENT

Payment will be made at the lump sum price bid for this item.

BASIS OF PAYMENT

The lump sum price bid shall include the cost of furnishing all labor, materials and equipment necessary to deliver, install, use and remove the pumping and delivery equipment. It shall include but not be limited to; site preparation, mixing, delivery pipe, nozzles, hoses, water flushing equipment and cleanup.

Eighty percent of the amount bid shall be payable upon furnishing the grout equipment to the site. The remainder shall be payable when the grouting work is satisfactorily completed, the equipment removed from the project site, and the grout site is cleaned up.