

SECTION 250

BACKHOE HOURS

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250.01 SCOPE

This specification deals with excavation work and disposal or salvage work, usually of a relatively minor nature, where the basis of payment is backhoe hours.

250.02 EQUIPMENT

The equipment shall consist of an excavator and at least **two** tandem axle dump trucks. Should the Owner's Representative determine that additional trucks are required, then the additional trucks shall be compensated for at the Department's rental rates as specified in Division 10.

The excavator shall have a horsepower rating of at least 135, and the bucket shall have a capacity of at least 0.75 cubic metres.

For ditch clean out operations, a ditching bucket must be used. The bucket is to have a minimum capacity of 0.75 cubic metres and a minimum width of 1500 millimetres.

Where a hydraulic breaker is required, it will have a minimum impact energy of 3390 Joules.

250.03 DESCRIPTION

Backhoe hours may be required to excavate ditches in other material including grubbing and small brush, shape other material back slopes, excavate existing culverts or catch basins for disposal or salvage, excavate other material prior to installation of new culverts and extensions, and excavate such other non-solid rock materials as the Owner's Representative may direct. Backhoe hours will not normally be required in connection

with the excavation of solid rock. However, in those cases where small points of rock are encountered in the ditch and their removal is required by the Owner's Representative, the removal will be accomplished by use of a hydraulic breaker attachment on the excavator.

When excavating existing culverts or catch basins or when excavating for new culverts, the excavated other materials shall be stockpiled next to the excavation so that it may be used as backfill. In the case of work in connection with the salvage of culvert, the work shall proceed with caution so as not to damage the culvert to be salvaged.

For excavating an existing culvert, backhoe hours will only be used if there is no contract item for either Disposal of Culvert or Salvage of Culvert.

After the installation of a new culvert, the backfill shall be placed in lifts and compacted to at least 95% of Standard Proctor Density (ASTM D698).

Waste materials including surplus other material, condemned culverts and catch basins, unsuitable material, grubbing, and such other materials as the Owner's Representative may direct, shall be loaded in trucks and hauled away and disposed of at an approved waste disposal area. The waste disposal area shall be provided by the Contractor at their own expense. The debris shall be covered with waste other material and graded and trimmed to sightly proportions.

250.04 MEASUREMENT FOR PAYMENT

Measurement for payment will be by the number of hours, rounded to the nearest quarter hour, that the excavator actually worked excavating or backfilling, as required by the Owner's Representative. Time spent traveling by the excavator for the disposal of excavated materials, truck haulage time by the two trucks to transport the excavated materials, and time spent grading and trimming the waste in the waste disposal area, will not be included in measurement for payment.

250.05 BASIS OF PAYMENT

Payment at the contract price for backhoe hours shall be compensation in full for all labour, materials and equipment use to carry out required excavation, backfill and compact the excavation if required, load, transport and place waste materials from the excavation to the approved disposal area, provide an approved waste disposal area, and grade and trim the waste materials to sightly proportions.

Should the Owner's Representative determine that more than two tandem trucks are required; the additional trucks shall be compensated for at the Department's rental rates as specified in Division 10.

For excavation of points of rock, payment for backhoe hours will include the hydraulic breaker in lieu of the two tandem trucks.