

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 31 23 15 – Rock Scaling.
- .2 Section 31 23 16.16 – Rock Bolting

1.2 UNIT PRICES

- .1 Measurements for rock disposal shall be based on the number of cubic meters of material loaded and hauled from the site as determined by volume measurements on loaded trucks.
- .2 If volume calculation is disputed, then Contractor will be asked to weigh truck and, using published density values, a more exact volume shall be calculated.
- .3 Payment for the work of this Section will be made in accordance with the unit prices contained in the Schedule of Quantities and Prices.
- .4 All costs associated with the management and disposal of materials are deemed to be included in the contract unit price.
- .5 No separate payment will be made for excavating outside the areas shown on the drawings unless required for safety reasons and approved in advance by the Departmental Representative.

1.3 EXTENT

- .1 The work includes, but is not limited to, the following:

Rock Disposal includes the complete disposal of loose unstable rock and shotcrete material removed from the slope by appropriate manual scaling methods at locations indicated in the contract, in areas indicated on the drawings and, if required, larger pieces of rock, as directed by the Departmental Representative. If large blocks of rock require removal, they shall be broken up and disposed of in a controlled manner.

1.4 SUBMITTALS

- .1 Submit details regarding the method of scaled rock disposal at least 3 days in advance of carry out such work.

1.5 EQUIPMENT

- .1 Supply all necessary equipment to access the Works.
- .2 Supply all necessary equipment for accessing the rock slopes in safe and good working condition to the satisfaction of the Departmental Representative.
- .3 Supply the required mobile equipment equipped with an audible back up warning device to remove and dispose of rock.

Part 2 Products

2.1 NOT USED

Part 3 Execution

3.1 BREAKING UP OF ROCK

- .1 The breakup of any large blocks of rock, as may be required for rock disposal, shall be undertaken under the direction of the Departmental Representative using mechanical or non-explosive techniques such as mechanical hoe rams or hydraulic splitters. Methods to be used for rock breaking are to be approved by the Departmental Representative prior to undertaking the work.
- .2 Carry out rock removal in such a way as to minimize any damage to trees or other vegetation in accordance with Section 01 35 43 – Environmental Procedures. Cutting or damage of any trees is not permitted without prior approval of the Departmental Representative.

3.2 ROCK DISPOSAL

- .1 Remove all rock and debris material from the site that has been identified by the Departmental Representative as requiring removal, and transport the material to a suitable disposal area. In some areas, the Departmental Representative may allow rock debris to be left where it has come to rest provided the rock does not pose a safety hazard and shall not interfere with the future reforestation operations or other activities.
- .2 Assume the responsibility for the disposal of all material including but not limited to rock and shotcrete debris.

3.4 PROTECTION

- .1 Prevent damage to surroundings and injury to persons in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.

END OF SECTION