

Special Specification 4141

Stacked Stone-Block Retaining Wall (Dry)



1. DESCRIPTION

Furnish materials and construct stacked gravity stone-block retaining wall as shown on the plans and required by this item.

2. MATERIALS

The contractor must furnish materials new, meeting the following requirements.

- 2.1. **Stone.** Native stone will be durable rough-cut limestone of suitable quality to ensure permanence in the structure. Source all rock from a single, local quarry.
- 2.2. **Concrete.** Concrete for mow strip will be Class A concrete and conform to Standard Specification Item 421 "Hydraulic Cement Concrete."
- 2.3. **Granular Backfill.** Drainage aggregate select backfill Type DS conforming to Standard Specification Item 423, "Retaining Walls" is to be used for the granular backfill.
- 2.4. **Compacted Crushed Stone Base.** Compacted crushed stone base will be Type A conforming to Standard Specification Item 247 "Flexible Base."
- 2.5. **Filter fabric.** Filter fabric will be Type 1 conforming to DMS-6200, "Filter Fabric."

3. CONSTRUCTION

- 3.1. **General.** The contractor must submit samples of the stone which shows the complete color range to the Engineer for approval.

The contractor will verify all dimensions incidental to this work before construction.

Construct the stone-block wall in accordance with these specifications, in conformity with the form, dimensions, and design shown on the plans, and to the lines and grades established by the Engineer.

Construct in horizontal courses. The first course will be placed on minimum 12 in. thick compacted crushed stone base as shown on the plans. The horizontal and vertical joints will be dry as shown on the plans. Keep a minimum separation of 18 in. horizontally between the vertical joints on adjacent vertical courses. Dry-lay blocks using small stones for leveling and support, if needed.

- 3.2. **Workmanship.** Stone masonry must be set by an installer with a minimum of 5 years of experience in the successful installation of the type of stone specified. Before the completion of the contract, clean the showing surfaces in a manner satisfactory to the Engineer.

4. MEASUREMENT

This item will be measured by the square foot of surface area of the wall face. The excavation, granular backfill, compacted crushed stone base, mow strip, and filter fabric are not included in the measurement of

wall, but will be subsidiary to this item. Only accepted work will be included in the measurement for payment, and the dimensions used for measurement will be those shown on the plans or ordered in writing by the Engineer.

5. **PAYMENT**

The work performed and materials furnished in accordance with this item and measured as provided under "Measurement" will be paid for at the unit price bid for "Stacked Stone-Block Wall (Dry)." This price is full compensation for furnishing and hauling all materials; for all freight involved; for preparing and placing of all materials; completing all excavation; furnishing, placing, and compacting backfill (except in embankment areas); furnishing, placing, and compacting crushed stone base; placement of drainage aggregate; filter material and drain pipe, and filter fabric; furnish material and construction of mow strip; wall erection; furnishing and placing material for leveling, if required; and providing all equipment, tools, labor, and incidentals necessary to complete the work.