

**SECTION 04410
SITE STONE WALL WORK**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General Conditions and other Division 1 Specification Sections, apply to this section.

1.2 SUMMARY

The work under this section shall include the furnishing of all materials, equipment, site equipment, labor and services necessary to construct a "Farmer's" stone masonry wall in a complete manner and in accordance with the Contract Drawings. This includes clean-up and disposal of waste, refuse and debris caused by this work, as shown on the drawings or specified herein.

The stone walls shall be a minimum of thirty-six (36) inches in height as indicated on the Contract Drawings.

Prospective Bidders are advised that the stone for incorporation into the stone wall construction shall be salvaged from the existing walls to be removed or taken from the existing stones stockpiled on-site from a previous contract.

The work shall include but is not limited to the following:

- Furnishing all necessary labor and materials required to perform the work of this Section.
- Constructing all stone walls.
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Related Work Specified Elsewhere

- Section 02110 – Clearing and Grubbing
- Section 02200 – General Earthwork For Athletic and Baseball Fields
- Section 02950 – Planting

1.3 QUALITY ASSURANCE

- A. Comply with the applicable portions of Division I, General Requirements.
- B. Examine drawings covering work of this Section and all drawings which may affect the work of this Section or required coordination.
- C. All stone shall be set by competent and experienced masons.

1.4 SAMPLES

- A. Construct on-site, where directed by the Engineer, samples of the site stone work. No further stone work shall be begun until its sample has been approved by the Engineer. Samples shall be re-worked as necessary until such approval is given and finish stone work shall match samples.
- B. Sample stone work, when approved, may be used as part of the work of this Contract but will in any case be maintained intact throughout the work of this Section.

PART 2 PRODUCTS

2.1 STONE

- A. Stone: All stones shall be obtained from on-site consisting of random split stones of varying sizes and generally square or rectangular in shape. Stone shall be smoothly blended from medium to large with very few small stones. Stone shall be hard and durable, free of spalls, cleavage and loose bedding planes

Capstone shall be the same as the wall stone.

- B. Crushed Stone Base: Shall meet the requirements specified in Section 02200 – General Earthwork For Athletic and Baseball Fields for ¾-inch Foundation Stone.

PART 3 EXECUTION

3.1 STONE WALLS

- A. Construct stone walls where shown on Drawings or as directed by the Engineer. Walls shall be constructed of approved stone laid in a pattern similar to that shown on the Contract Drawings. The stone shall have a batter as shown on the Contract Drawings and with a minimum of one course (and to the depths indicated) below existing grade as shown on the Contract Drawings. As applicable, exercise care not to disturb or cut any major roots two inches (2") in diameter and over; bridge major roots where possible. Wall heights and dimensions shall be as shown on the Contract Drawings. Install gravel backfill as indicated in the Contract Documents.
- B. Courses shall be laid level. Stone shall at angles, curves, corners or end walls shall be roughly squared or rounded and dressed to the required lines. No dressing or hammering of stone, which will loosen the stone, will be permitted after it is placed. Stone shall be clean before setting. Headers shall be placed in each course and shall have a width of not less than 1 ½ times their thickness. They shall bond with the core or backing not less than 12 inches; and in wall 2 feet or less in thickness, they shall extend entirely through the wall. Headers shall occupy not less than 1/5 of the face area of the wall and shall be evenly distributed.
- D. Laying Stone: Stone shall not be laid when the air temperature in the shade and away from artificial heat is 40°F or below and falling, except with the permission of the Engineer and subject to such conditions as he may impose.

Each stone shall be cleaned before being set. Stone shall not be dropped on or slid over the wall, but shall be carefully set without jarring stone already laid and shall be handled with a lewis or other appliance which shall not cause disfigurement.

3.2 PROTECTION

- A. All work of this Section shall be adequately protected from damage. Damaged units shall be replaced to the satisfaction of the Engineer.
- B. Any stones remaining after construction work is completed shall be returned to the stockpile unless otherwise directed by the Engineer.

END OF SECTION 04410