

SECTION 04 05 13

MORTAR

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 33 44 13 Manholes and Catch Basins

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. General Requirements:
 - 1. Specific materials (brands, trade names, sources of supply, etc.) must be approved by Landscape Architect before any materials are ordered.
 - 2. Once approved, the same materials must be used throughout entire job.
- B. Portland Cement: ASTM C150, Type 1.
- C. Sand: ASTM C144. Must be washed.
- D. Lime: Hydrated lime for masonry purposes, ASTM C207, Type S.
- E. Pea Gravel: ASTM C33, size #8 (1/4" – 3/8")
- F. Water: Clean, fresh, potable and free of deleterious amounts of acids, alkalis, organic materials and/or dissolved or suspended materials of any kind.
- G. Mortar Coloring for Block: Mortar for block shall be natural mortar color.
- H. Other Admixtures: None, unless authorized by Landscape Architect prior to application.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Mortar shall be portland cement-lime mortar mix proportioned with 1 part cement, 1 part lime, 6 cu.ft. sand (Type S Mix). Prepared mortar shall not be used.
- B. Mortar shall comply with requirements of ASTM C270 for Type S (1500 PSI compressive strength) mortar.
- C. Mortar shall contain minimum of 12% and maximum of 12% entrained air.
- D. Use all mortar within 2-1/2 hours after mixing.
- E. Mortar may be retempered as required, but in no case, if retempering is due to loss of water by hydration.

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3.2 BOND PATTERN

- A. Lay concrete block in bond pattern with uniform coursing and jointing. Maintain vertical joints in line, with bond patten carefully preserved. Joints shall be 3/8" (\pm 1/8").
- B. Commence tooling joint when mortar is "thumb hard" and bonds to the course above without leaving hair cracks. Unless otherwise required, cut flush and concealed joints; tool interior and exterior exposed joints in block to a uniform compressed concave surface with an oversize jointing tool.
- C. Rake out mortar in preparation for application of caulking or sealants where shown.
- D. Joints that are not tight at time of tooling shall be raked out.
- E. Units disturbed after laying: Remove, clean, and relay in fresh mortar.

END OF SECTION 04 05 13