

## 04 20 00 – Unit Masonry

### 1. General

- A. Concrete masonry units and brick exposed to view shall be approved by the Consultant and Owner on the basis of compatibility in color and texture with existing exterior building materials on campus. Samples shall be constructed in order to obtain approval by the Consultant and the Owner.
- B. Design of masonry walls shall be in accordance with the N. C. State Building Code Volume 1 and applicable American Society for Testing and Materials (ASTM) standards.
- C. Brick masonry produced for an individual project shall be from the same production run, or mixed on the job if production runs are separate, so that no apparent color and texture differences occur. Brick shall match or compliment adjacent buildings as closely as possible.
- D. Continuous wire reinforcing shall be used in masonry walls. Anchoring devices used on structural elements shall be durable and designed from a galvanized or stainless steel material appropriate to the long-lasting quality of the wall construction.
- E. Careful consideration will be given by the Consultant to the design of the wall, with regard to cavity wall construction, flashing details, control joints, mortar joint details and wall materials. Admixtures for mortar used in extremely warm or cold environments shall be carefully considered. The Owner generally will not approve use of protective waterproofing agents because of their inherent maintenance and renewal problems.
- F. Mortar shall be a commercial mix of Portland cement, lime, sand and plasticizing admixtures for Type S mix design. Final paint coatings shall be verified as compatible with the use of admixtures in the mortar joints. Masonry shall be measured for moisture presence prior to installation of final paint coatings.
- G. Penetrations in masonry fire-rated walls shall be sealed tightly with approved firestop material. Pipe penetrations in below-grade walls shall be watertight.