

**CSU HOUSING & DINING SERVICES TECHNICAL STANDARDS
DIVISION 04 – MASONRY**

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A. Design and Workmanship:

1. Masonry restorations shall be performed by a prequalified firm having not less than 5 years successful experience in comparable masonry restoration projects, and employing personnel skilled in the restoration processes and operations indicated.
2. Designer shall provide complete detail drawings and specifications to ensure that exterior masonry wall systems are designed to manage moisture penetration from driving rain. This generally requires attention to the interaction of copings, flashings, drainage planes, mortar guard and weeps.

B. Exterior Walls:

1. The use of sandstone and brick on exterior walls of the buildings is strongly encouraged.
2. New sandstone and brick additions shall match existing building stone and brick as closely as possible.
3. The use of concrete masonry units on exterior walls of buildings is generally discouraged except when used as the interior portion of an exterior wall cavity. Use of split-face and ground face block will be considered on a project-by-project with review and approval of Facilities Management – Design and Construction.

C. Interior walls:

1. Concrete masonry units for interior wall partitions may be used when approved by Facilities Management-Design and Construction through the University Representative.

D. Material and Standards:

1. The following materials and standards shall be adhered to.
 - a. Stone/Limestone: Indiana Limestone Institute
ASTM C 568
 - b. Mortar ASTM C 270
 - c. Brick: Brick Institute of America (BIA)
 - d. Concrete Masonry: National Concrete Masonry Assoc. (NCMA)
 - e. Facing Brick: ASTM C 216, Grade SW
ASTM C 652 Grade SW
 - f. Concrete Block: Grade N, Type I, ASTM C 90

E. Specification

1. Facilities Management – Design and Construction will assist the Architect in specifying masonry material, color, range, distribution, coursing, pattern and detailing to assure adherence to campus aesthetic guidelines

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F. Mockup

1. Construction, review and approval of a completely detailed mockup shall be required for all masonry work before masonry is ordered in bulk.
2. Facilities Management – Design and Construction will assist the Contractor in setting the project standard for masonry distribution, coursing, detailing and workmanship.
3. The mockup shall be protected and maintained on site as a reference of excellence.
4. A mockup-in-place may be permitted on a project-by-project basis, with approval of Facilities Management – Design and Construction through the University Project Manager/Representative.

G. Construction Execution:

1. Deliver masonry materials to project in undamaged condition. Store and handle masonry units to prevent their deterioration or damage due to moisture, temperature changes, contaminants, corrosion, or other causes.
2. During erection of masonry walls, cover tops of walls with plastic sheeting or other waterproof material at end of each day's work or whenever else work is subjected to moisture. Cover partially completed structures when work is not in progress. Extend cover a minimum of 24 inches down both sides and hold cover securely in place.
3. Provide bracing designed for all loads which will be encountered during construction as required for temporary support of masonry construction. Bracing shall maintain position and shape of masonry construction during construction and curing of masonry and shall not be removed until construction is capable of supporting itself under all anticipated construction loading.