

(Rev 11-16-2018) Note: The only revisions that were made, was the removal of unnecessary highlighting & added indexing.

DIVISION 04 – MASONRY

04 00 00 MASONRY

04 01 00 Maintenance of Masonry

- 04 01 20 Maintenance of Unit Masonry
 - 04 01 20.51 Unit Masonry Maintenance
 - 04 01 20.52 Unit Masonry Cleaning
 - 04 01 20.91 Unit Masonry Restoration
 - 04 01 20.93 Testing and Sampling Brick Units for Restoration
- 04 01 40 Maintenance of Stone Assemblies
 - 04 01 40.51 Stone Maintenance
 - 04 01 40.52 Stone Cleaning
 - 04 01 40.91 Stone Restoration
- 04 01 50 Maintenance of Refractory Masonry
- 04 01 60 Maintenance of Corrosion-Resistant Masonry
- 04 01 70 Maintenance of Manufactured Masonry

04 05 00 Common Work Results for Masonry

- 04 05 13 Masonry Mortaring
 - 04 05 13.16 Chemical-Resistant Masonry Mortaring
 - 04 05 13.19 Epoxy Masonry Mortaring
 - 04 05 13.23 Surface Bonding Masonry Mortaring
 - 04 05 13.26 Engineered Masonry Mortaring
 - 04 05 13.29 Refractory Masonry Mortaring
 - 04 05 13.91 Masonry Restoration Mortaring
- 04 05 16 Masonry Grouting
 - 04 05 16.16 Chemical-Resistant Masonry Grouting
 - 04 05 16.26 Engineered Masonry Grouting
- 04 05 19 Masonry Anchorage and Reinforcing
 - 04 05 19.13 Continuous Joint Reinforcing
 - 04 05 19.16 Masonry Anchors
 - 04 05 19.26 Masonry Reinforcing Bars
 - 04 05 19.29 Stone Anchors
- 04 05 23 Masonry Accessories
 - 04 05 23.13 Masonry Control and Expansion Joints
 - 04 05 23.16 Masonry Embedded Flashing
 - 04 05 23.19 Masonry Cavity Drainage, Weepholes, and Vents

04 06 00 Schedules for Masonry

- 04 06 20 Schedules for Unit Masonry
 - 04 06 20.13 Masonry Unit Schedule
- 04 06 40 Schedules for Stone Assemblies
- 04 06 50 Schedules for Refractory Masonry
- 04 06 60 Schedules for Corrosion-Resistant Masonry
- 04 06 70 Schedules for Manufactured Masonry

04 08 00 Commissioning of Masonry

04 20 00 UNIT MASONRY
SECTION 04 21 00
CLAY UNIT MASONRY

CONSULTANT DESIGN GUIDELINE

MASONRY WALLS. Design masonry walls with a clear cavity width of two inches, excluding the insulation, for removal of mortar droppings between Wythes.

WALL TIES. Specify adjustable ties with attachable drips to be located within the cavity. Do not permit corrugated, galvanized wall ties.

Masonry anchors should be the type that can be applied on the exterior of the sheathing and that they be able to take vertical movement (slide up and down) . One brand that is good for this is HB anchor , the x- seal or approved equal . It also assists in keeping water out of its penetrations.

INCLUDE IN CONSTRUCTION DOCUMENTS

Multiple Wythe Joint Reinforcement. Truss type with moisture drip galvanized 3/16" rods with nine gage cross tile.

Masonry Flashing End Laps. Send end laps in through-wall flashing with mastic; a six-inch lap is required.

Discontinuous Flashing. Turn flashing up two inches to form a dam at each end where through-wall flashing is discontinuous, such as locations above doors and windows. Provide positive weeps in head joints of the outer masonry, just above the flashing, for water drainage.

EXECUTION

Sample Wall Panels. Prior to installation of masonry, and at no cost to the University, erect three sample masonry wall panels to display three different brick samples for review and selection by the University Facilities Management Planning Group.

Contractor shall construct masonry panels no less than 4' x 6' in size. Samples panels shall be full thickness, including face and backup Wythes, and include all accessories. Do not allow masonry cement in mortar.

Locate masonry panels on site in locations indicated or, if not indicated, as directed by the Architect.

Do not proceed with masonry work until masonry panels approved by the architect and Facilities Management Planning Group.

END SECTION

- 04 21 13 Brick Masonry
 - 04 21 13.13 Brick Veneer Masonry
 - 04 21 13.23 Surface-Bonded Brick Masonry
- 04 21 16 Ceramic Glazed Clay Masonry
- 04 21 19 Clay Tile Masonry
- 04 21 23 Structural Clay Tile Masonry
- 04 21 26 Glazed Structural Clay Tile Masonry
- 04 21 29 Terra Cotta Masonry

04 22 00 Concrete Unit Masonry

- 04 22 00.13 Concrete Unit Veneer Masonry
- 04 22 00.16 Surface-Bonded Concrete Unit Masonry
- 04 22 19 Insulated Concrete Unit Masonry
- 04 22 23 Architectural Concrete Unit Masonry
 - 04 22 23.13 Exposed Aggregate Concrete Unit Masonry
 - 04 22 23.16 Fluted Concrete Unit Masonry
 - 04 22 23.19 Molded-Face Concrete Unit Masonry
 - 04 22 23.23 Prefaced Concrete Unit Masonry
 - 04 22 23.26 Sound-Absorbing Concrete Unit Masonry
 - 04 22 23.29 Split-Face Concrete Unit Masonry
- 04 22 33 Interlocking Concrete Unit Masonry

04 23 00 Glass Unit Masonry

- 04 23 13 Vertical Glass Unit Masonry
- 04 23 16 Glass Unity Masonry Floors
- 04 23 19 Glass Unit Masonry Skylights

04 24 00 Adobe Unit Masonry

- 04 24 13 Site-Cast Adobe Unit Masonry
- 04 24 16 Manufactured Adobe Unit Masonry

04 25 00 Unit Masonry Panels

- 04 25 13 Metal-Supported Unit Masonry Panels

04 27 00 Multiple-Wythe Unit Masonry

- 04 27 13 Composite Unit Masonry
- 04 27 23 Cavity Wall Unit Masonry

- 04 28 00 Concrete Form Masonry Units
- 04 28 13 Dry-Stacked, Concrete-Filled Masonry Units
- 04 28 23 Mortar-Set, Concrete-Filled Masonry Units

04 40 00 STONE ASSEMBLIES

04 41 00 Dry-Placed Stone

04 42 00 Exterior Stone Cladding

- 04 42 13 Masonry-Supported Stone Cladding
- 04 42 16 Steel-Stud –Supported Stone Cladding
- 04 42 19 Strongback-Frame-Supported Stone Cladding
- 04 42 23 Truss-Supported Stone Cladding
- 04 42 26 Grid-System-Supported Stone Cladding
- 04 42 43 Stone Panels for Curtain Walls

04 43 00 Stone Masonry

04 50 00 REFRACTORY MASONRY

- 04 51 00 Flue Liner Masonry**
- 04 52 00 Combustion Chamber Masonry**
- 04 53 00 Castable Refractory Masonry**
- 04 54 00 Refractory Brick Masonry**
- 04 57 00 Masonry Fireplaces**

04 60 00 CORROSION-RESISTANT MASONRY

- 04 61 00 Chemical-Resistant Brick Masonry**
- 04 62 00 Vitrified Clay Liner Plate**

04 70 00 MANUFACTURED MASONRY

- 04 71 00 Manufactured Brick Masonry**
- 04 71 13 Calcium Silicate Manufactured Brick Masonry

04 72 00 Cast Stone Masonry

- 04 73 00 Manufactured Stone Masonry**
- 04 73 13 Calcium Silicate Manufactured Stone Masonry