SECTION 04200D - UNIT MASONRY

A. BRICK
   1. Avoid use of oversize brick. Masons have difficulty maintaining a full head joint on the larger size bricks. Less than full head joints are a common source of masonry problems. Select and specify ASTM C62, Grade SW brick. Grade MW does not offer sufficient weathering characteristics and should be avoided.
   2. Specify that brick masonry be coated with a water repellent coating. Refer to section 07180D.
   3. Building foundations should extend 6” above grade in areas with brick to prevent staining from contact with earth.

B. CONCRETE MASONRY UNITS
   1. Interior walls of parking garages shall be constructed out of concrete masonry units. Walls shall extend to underside of structure above and shall be properly braced.
   2. Cinder block masonry is prohibited.
   3. Do not specify lightweight CMU for exterior applications as a backup material for brick, or in areas subject to moisture.

C. STONE: Indiana Limestone is the preferred stone for the University. Building foundations should extend 4” above grade where limestone is used to ensure that the absorptive stone is not in contact with earth.

D. MORTAR BEDDING AND JOINTING
   1. Specify that horizontal and vertical mortar joints receive full coverage. Furrowing bed joints is prohibited.
   2. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness. Raked joints are prohibited.

E. MASONRY REINFORCING
   1. As a minimum, all masonry reinforcing shall be hot-dipped galvanized to comply with ASTM A 153, Class B-2 (1.5 ounce per square foot (Refer to attached Section 04200). Stainless steel may be appropriate in some situations.
   2. Corrugated wall ties are prohibited.
   3. Horizontal reinforcing with crimps that serve as a drip are prohibited.
4. Stone anchors shall be stainless steel and comply with the recommendations of the Indiana Limestone Institute of America, Marble Institute of America, or the National Building Granite Quarries Association as appropriate. Aluminum anchors are prohibited.

F. CONTROL AND EXPANSION JOINTS: Associate shall design masonry to allow provisions for expansion, contraction, and other movements typical of masonry to prevent cracking. Show all joints on the construction drawings.

G. FLASHING AND WEEPS

1. Masonry flashing shall be composite copper/asphalt/kraft paper. (Refer to 04200.spc.)

2. PVC flashing is prohibited.

3. Weeps shall be cotton sash cord. Refer to Section 04200.

4. Plastic tubes, open head joints, and weep vent systems are prohibited.

H. MASONRY CLEANING AND PROTECTION

1. Specify that brick masonry shall be cleaned with proprietary general purpose acidic cleaners designed for removing mortar/grout stains efflorescence, and other new construction stains without discoloring or damaging masonry surfaces. Products used should always be the least intrusive product that will adequately clean the masonry. Use of muriatic acid is prohibited.

2. Masonry (brick, concrete masonry and stone) shall be coated with an anti-graffiti coating from grade up to at least 8’ - 0” (or beyond any accessible location). Because these coatings may slightly darken the masonry, the coating should be applied up to a building change or offset. Anti-graffiti coating shall be compatible with water repellent coatings.

I. MISCELLANEOUS: Plug anchoring items to masonry by use of wood, lead, or plastic is prohibited.

END