

## SECTION 348

### BRICK PAVEMENT FOR VEHICULAR TRAFFIC

#### 348.1 GENERAL

The paving brick and its installation, specified in this section, are intended for the use as a surface material for vehicular traffic.

#### 348.2 REFERENCES

##### 348.2.1 ASTM

C 902

##### 348.2.2 This Publication:

SECTION 101  
SECTION 305  
SECTION 108  
SECTION 337  
SECTION 115  
SECTION 340  
SECTION 301

#### 348.3 CERTIFICATION

Before installation of the paving bricks the ENGINEER will be furnished with a certification from the brick manufacturer that the bricks meet these specifications.

#### 348.4 MATERIALS

**348.4.1 CONCRETE:** Concrete for brick foundation and containment walls shall meet the requirements as per Section 101 for concrete pavement, drivepads, or walls.

**348.4.2 ASPHALT SETTING MATERIAL:** The asphalt setting material will be a mixture of sand and bituminous material and shall conform to the requirements of Section 115.

**348.4.3 BRICK:** The brick to be used for street or drivepad surface course shall conform to the requirements of Section 108.

#### 348.5 MATERIAL HANDLING

Brick shall be stored on dry ground or on pallets and shall be protected during storage and handling to prevent chipped edges.

#### 348.6 INSTALLATION

**348.6.1 SUBGRADE AND TREATED BASE COURSE:** The subgrade preparation and the installation of the cement treated base course shall comply to the requirements of Sections 301 and 305, respectively. Thickness of these materials are shown

on the Standard Detail Drawings. Drivepads do not require treated base course.

**348.6.2 CONTAINMENT OR CUT-OFF WALLS:** The containment or cut-off walls shall comply with the Standard Detail Drawings or with the construction plans.

**348.6.3 PORTLAND CEMENT CONCRETE BRICK FOUNDATION:** The construction of the concrete foundation shall conform to the requirements of Section 337 and 340. For arterial, collector and industrial street areas the foundation will be 4,000 psi compressive strength and will be a minimum of 8 inches thick. For residential streets and drivepads the foundation will be 4,000 psi and 3,000 psi compressive strength, respectively, and will be a minimum of 6 inches thick. The surface of the concrete foundation shall be screeded to grade and then finished with a wood float.

**348.6.4 EXPANSION JOINT MATERIAL:** Expansion joint material shall be installed between the concrete foundation and the containment walls and the curb and gutter. This material shall extend from the bottom of the concrete foundation to the top surface of the brick.

**348.6.5 ASPHALT SETTING MATERIAL:** Prior to the application of the asphalt setting material and the setting of the bricks the surface shall be kept moist for proper concrete curing. Curing compounds will not be used. The asphalt setting material will be applied to the foundation surface to a thickness of 3/8 inch minimum to 5/8 inch maximum. Immediately after application of the setting material the bricks will be installed.

**348.6.6 BRICK INSTALLATION:** Brick patterns and surface trueness requirements will be as follows:

**348.6.6.1 Pedestrian Crosswalks:** The bricks shall be laid in a running bond pattern with no less than half bricks being used. The long dimension of the brick shall be perpendicular to the normal flow of traffic.

**348.6.6.2 Entire Street Intersections or Other Large Areas:** The bricks shall be laid in accordance with the City approved construction plans. No less than half bricks shall be used.

**348.6.6.3 Trueness:** A 10-foot straight-edge shall be used to test the trueness of the pavement surface. The straight-edge shall be held in contact with the brick surfaces in all directions from a point. Adjustments shall immediately be made to conform to

the straightedge. The CONTRACTOR shall furnish the straightedge.

#### 348.7 OPENING TO TRAFFIC

There will be no difference in the opening to traffic requirements for the concrete foundation as there is for concrete pavement as per Section 337.

#### 348.8 DRIVEPAD CONFIGURATIONS:

Prior to the installation of a brick surfaced drivepad, the construction plans, showing the configuration, shall be submitted to the ENGINEER for approval. Brick surfacing shall not be used in the street gutter area.

#### 348.9 MEASUREMENT AND PAYMENT

348.9.1 Brick surfaced street pavement and drivepad shall be measured by the square yard and shall include subgrade preparation, cement treated base course, concrete foundation, asphalt setting material and brick, both material and installation. Payment will be made at the unit price per square yard as specified in the Bid Proposal.

348.9.2 Measurement for concrete containment walls may be by the lineal foot or by the cubic yard. Payment will be the unit price per unit of measurement as defined in the Bid Proposal.