

## **SECTION 717**

### **COMPACTION CONTROL OF BASE COURSE MATERIAL**

#### **717.1-GENERAL:**

The Contractor shall notify the Engineer prior to construction of the test strips as set forth in MP 700.00.24. Further, the Contractor shall perform quality control compacting tests and shall record the data for all of their compaction testing on the forms as set forth in the Materials Procedures (MPs).

The test data shall be available to the Engineer at the time of testing or as indicated in the Contractor's quality control plan.

#### **717.2-TEST METHODS:**

**717.2.1-** Moisture, maximum density, quality control density and acceptance density for portland cement treated aggregate base course; hot-mixed, hot-laid bituminous treated aggregate base course; cold mixed bituminous treated aggregate base course; crushed aggregate base course; and aggregate subbase shall be determined in accordance with MP 700.00.24.

**717.2.2-** Maximum density, optimum moisture, quality control moisture-density and acceptance moisture-density for soil-cement base course shall be determined in accordance with MP 207.07.20.

#### **717.3-MOISTURE:**

**717.3.1-**The amount of moisture contained in soil-cement base course after mixing with portland cement is complete shall vary not more than three percentage points above or two percentage points below the optimum moisture, unless otherwise agreed by the Engineer. The optimum moisture shall be determined as specified in 717.2.2. The moisture content shall not exceed that quantity which will cause the soil-cement mixture to become unstable during compaction and finishing. The moisture content shall be determined as specified in 717.2.2.

**717.3.2-**The moisture content for crushed aggregate base course, portland cement treated aggregate base course and aggregate subbase shall be determined in accordance with 717.2.1.

#### **717.4-DENSITY:**

The wet density shall be determined for all base course material. The dry density shall be determined for portland cement treated aggregate base course, crushed aggregate base course, soil-cement base course and aggregate subbase.

**TABLE 717.4.4**

<b>TYPE OF CONSTRUCTION</b>	<b>TARGET % OF DRY DENSITY</b>	<b>TARGET % OF WET DENSITY</b>
Portland Cement Treated Aggregate Base Course	95	
Crushed Aggregate Base Course	95	
Aggregate Subbase	95	
Hot-Mix, Hot-Laid Bituminous Treated Base Course		95
Cold Mix Bituminous Treated Aggregate Base Course		95
Soil-Cement Base Course	95	

**NOTE 1:** The target percentage (wet) (dry) density is the percentage of density used for acceptance decision. The percentage of (wet) (dry) density for each test shall be determined by comparing the in-place (wet) (dry) density with the required maximum (wet) (dry) density.

#### **717.5-PORTLAND CEMENT CONTENT CONTROLS:**

**717.5.1-The** Contractor shall perform tests to determine the cement content of cement treated base (CTB). The tests shall consist of plant calibration procedures performed on a minimum frequency of one per each half day of production (subplot). The test data shall be available to the Engineer at the time or as approved in the Contractor's quality control plan.