

## Section 5.10

### VERIFICATION INSPECTION AND TESTING

#### 5.10.1 Purpose

This section provides a minimum verification inspection and testing frequency, when not established in the **Specifications** or is at the “Discretion of the Engineer”. The purpose is to monitor and verify the Contractor’s construction processes to ensure that quality of construction are in compliance with **Specification** requirements.

#### 5.10.2 Authority

Section 334.048(3) and 20.23(4)(a), Florida Statutes (F.S.)  
Standard Specifications for Road and Bridge Construction

#### 5.10.3 Inspection Frequency

##### 5.10.3.1 Asphalt

###### (A) Resident Level Responsibilities

In addition to the required frequency of verification, resolution, and independent sample verification of material properties and construction inspections required in the **Specifications**, the Qualified Asphalt Technicians shall also perform the inspection and verification activities randomly at the job site to determine the reliability and uniformity requirements of Contractor’s Quality Control operations and document the findings/results in the **Asphalt Verification Reports, Asphalt Plant Worksheet, Form No. 675-030-25, and Asphalt Roadway – Verification Report, Form No. 675-030-21**. Plant information should be uploaded to the **Laboratory Information Management System (LIMS)**, however Roadway information is not required to be entered in **LIMS**. The inspection frequencies for various characteristics are listed as follows:

**(1) For contracts let before January 2011:**

Tack Coat Spread Rate	Once / Day
HMA Spread Rate (Yield)	Once per layer / Day
HMA Temperature	Twice / Day
Depth and Cross Slope (Milling)	Once / Day A minimum of ten measurements for each verification.
Milling Surface Texture	Once / Day
Cross Slope (Paving)	Once / Day A minimum of ten cross slope measurements for each verification.

**(2) For contracts let after January 2011:**

Tack Coat Spread Rate	Once / Day
HMA Spread Rate (Yield)	Once per layer / Day
HMA Temperature	Twice / Day
Depth and Cross Slope (Milling)	
Tangent Sections:	10 / lane mile
Transition Sections:	At control points in plans.
Super-elevated Sections:	Minimum of 3 measurements.
Milling Surface Texture	Once / Day
Cross Slope (Paving)	
Tangent Sections:	10 / lane mile
Transition Sections:	At control points in plans.
Super-elevated Sections:	Minimum of 3 measurements.

The findings of cross slopes (milling and paving) shall be documented in the **Cross Slope Measurement Data Form, Form No. 700-010-98** and the findings of milling surface texture shall be documented in the Remark Section of **Asphalt Roadway - Daily Report of Quality Control, Form No. 675-030-20 (or Form No. 675-030-20A)**.

In addition to the above verifications and inspections, the Roadway Verification Technician (VT) also monitors and inspects the Contractor's construction processes in accordance with the **Statewide Construction Inspection Guidelists (SCIG)** as specified in **CPAM Section 3.2** at a frequency of once per day during production. For example, the Asphalt Roadway VT shall use the SCIG Category No. 7B in order to ensure that the construction is being performed consistently and accurately according to the Contract documents.

The frequencies stated above are minimum frequencies. If visual inspection of the performance indicates the need, the frequency shall be increased to ensure that quality of construction and materials incorporated into the project are in compliance with the **Specifications**.

### 5.10.3.1.1 Corrective Action

#### (A) Resident Level Responsibilities

In case of deficiencies, the inspector shall inform the Contractor's Quality Control (QC) Manager about the deficiencies and advise the QC Manager that corrective action shall be made immediately. Once the corrective action has been made, the inspector shall perform a recheck. If the recheck indicates that the operation is still not in compliance with the **Specifications**, the inspector is to advise the Project Engineer of the same. The Project Engineer upon verification of facts shall disapprove the Contractor's QC Plan in accordance with **CPAM Chapter 3.3, Contractor's Quality Control Plan**.

The disposition of the areas represented by such deficiencies shall be evaluated separately in accordance with the **Specifications**.

### 5.10.4 Testing Frequency

#### 5.10.4.1 Finish Soil Layer

#### (A) Resident Level Responsibilities

For contracts let after January 2003, the Florida Department of Transportation personnel shall sample and test verification samples at the job site to determine specification compliance, reliability, and uniformity requirements of Contractor's Quality Control operations and enter the results in **LIMS**. The sampling frequency shall be as follows:

Organic Content and pH	One sample / 2 shoulder miles
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The frequencies stated above are minimum frequencies. If visual inspection of the performance indicates the need, the frequency shall be increased to ensure that quality of construction and materials incorporated into the project are in compliance with the **Specifications**.

On projects or areas less than 1/4 shoulder mile in length, no verification sampling and testing is required.