



BUREAU OF MATERIALS MATERIALS PROCEDURES

MP NUMBER: 5-08
EFFECTIVE DATE: 07/01/2008

APPROVAL: Eileen Sheehy

CORING OF EXISTING (PRE-CONSTRUCTION) HMA PAVEMENTS

PURPOSE:

To establish a standard procedure for coring of existing HMA pavements.

SUPERSEDES:

Materials Procedure Number 5 – Dated 10/01/2001

REFERENCES:

Special Provisions, Supplemental Specifications, Standard Specifications, Addenda and Attachments

NJDOT Safety Manual

BDC04S-15, 102.06, Examination of Contract Documents and Site of Project

FORMS:

LB - 3 Analysis of Bituminous Concrete

LB – TBA Pavement Core Record

LB - 88 Sample Envelope

INSTRUCTIONS:

1. Assignment Procedures

The Coring Section Supervisor/Assistant shall receive the following from the Coring Requestor:

- A. Name and location of project, mile post/station limits, number of lanes as well as the size and number of cores to be taken.
- B. Reason for taking cores, i.e., thickness survey, sub base evaluation, etc.
- C. Information regarding the names of person to meet and the time and place to meet. (if applicable)

II. Duties Before Departing for Project

The Coring Section Supervisor/Assistant shall;

- A. Determine which region the work is to be done and secure traffic safety from the appropriate NJDOT maintenance yard for the duration of the job. Determine if there are any Traffic Operation Conflicts.

III. Duties After Arriving on Project

The Coring Section Supervisor/Assistant shall:

- A. Discuss with the Engineer or his representative the layout of the project.
- B. Assure that all personnel in the coring crew are equipped with the proper safety gear, and are prepared to start working.
- C. Assist operator in preparing rig for coring, assure rig is positioned at the proper location (station and offset.)
- D. Assure traffic control is adequate for coring operation. If not, move to a safe location and call supervisor for additional instructions.
- E. Establish lot location and locate each core within the lot by marking the pavement
- F. Measure thickness and identify each core as it is taken, and record information on LB-TBA. (The field measurement will be the average of four measurements equally spaced around the circumference of the core. Each measurement shall be to the nearest 0.10 inc. (2.5mm))
- G. Ensure that operator performs proper patching. (Remove water from the hole and adequately compacts patching material with compaction tool). Cold patch material should be used to replace the cores.
- H. Determine when coring operations should cease in order to permit time to return to Trenton, submit cores to Department's Laboratory, complete all necessary reports and permit operator to service struck for next day's operations.
- I. Establish a safe and secure storage area for vehicles if they are not returned to Fernwood.

IV. Duties After Returning to the Laboratory

The Coring Section Supervisor/Assistant shall:

- A. Immediately call the Coring Section supervisor and report crews whereabouts and the status of the project.
- B. Organize cores and deliver to the coring section, or pavement density room as indicated.

- C. Transfer information from field copy LB-TBA to final form for distribution: complete forms LB-3 & LB-88 as needed.

V. Duties After Returning to the Bureau of Equipment (Fernwood Garage)

- A. Assist operator in loading patching materials and return to headquarters (Lower Ferry Road).

VI. Additional Duties

The Coring Section Supervisor/Assistant shall:

- A. Maintain a diary with notation and pertinent information that can be referred to at any later date. (Diary is to be returned to Coring Section Supervisor at end of year for permanent file).

VII. Authority and Responsibility

- A. Be responsible for overseeing each assigned coring operation.
- B. Be responsible for the coring location and the size and type of bit utilized.
- C. Change location of cores if random selection is located on or near longitudinal joints, unconfined edges, catch basins, manhole covers, or other obstructing objects.
- D. Make certain Equipment Operators are achieving maximum efficiency relative to coring and to care of equipment.
- E. Suspend coring operations if an unsafe condition exists which cannot be corrected.

VIII. Distribution of Forms

<u>Form</u>	<u>Distribution</u>
LB-3	1. Original - Laboratory
LB-88	1. Original - Supervisor
LB-TBA	1. Original - Laboratory - Bituminous 1. Copy – For coring requestor