



# BUREAU OF MATERIALS

# MATERIALS

# PROCEDURES

**MP NUMBER: 13-08**

**EFFECTIVE DATE: 07/01/2008**

**APPROVAL: Eileen Sheehy**

## EQUIPMENT OPERATOR'S DUTIES-CORING OF CONCRETE AND HOT MIX ASPHALT PAVEMENTS

### **PURPOSE:**

To establish a standard procedure for Coring Equipment Operator- Portland Cement Concrete and Hot Mix Asphalt Pavement.

### **SUPERSEDES:**

Materials Procedure Number 13 – Dated 10/01/2001

### **REFERENCES:**

Special Provisions, Standard Specifications, Supplementals, Addenda and Attachments.  
New Jersey Department of Transportation Safety manual

### **INSTRUCTIONS:**

#### **I. Assignment Procedures**

The Equipment Operator shall receive from the inspector the following:

- A. Name of project, location, type of pavement to be cored (Hot Mix Asphalt, portland cement concrete or bridge decks) and route to be traveled to project.
- B. Type of equipment needed to complete assignment (diamond bits,, expansion heads portable coring rig, rotary impact hammer, portable power plant and other necessary equipment).
- C. Supplies needed for patching: High Performance Patch, Quick Set PCC Patch, or special patching materials.

- D. Equipment needed for safety: cones, vest and safety helmet.

## **II. Duties Prior to Leaving for Project**

The Equipment Operator shall:

- A. Make certain that his assigned vehicle, including trailer (if applicable), has been serviced, perform daily truck inspection.
- B. Fill water storage tank for the operation of the drill. During winter months, the tank shall be filled the day of coring, to avoid freezing.
- C. Proceed to project in convoy with other vehicles assigned to same project.

## **III. Duties after arriving on Project**

The Equipment Operator shall:

- A. Prepare core truck for drilling operations
- B. Drill the core using the proper speed, thrust and water in accordance with attached reference materials.
- C. Remove core, pump all water from hole, fill hole with patching material and compact with compaction tools. Use sufficient patching material to allow the finished patch to be at least 1/4"(6 mm) above the surrounding pavement surface (this will provide for the additional compaction by traffic). Remove excess patching material from pavement.
- D. As directed by the inspector, move vehicle and repeat B & C.
- E. After completion of coring, prepare truck for return to the Bureau of Materials or a parking area in the vicinity of the project as directed by the inspector. Remove water from pump, lines and storage tank during cold weather operations.
- F. Secure truck if parked in location other than Fernwood.

## **IV. Duties after Returning to the Laboratory**

The Equipment Operator shall:

- A. Assist the inspector in preparing the cores for submission.
- B. Return vehicle(s) to Bureau of Materials and report to inspector regarding the condition of vehicle(s) and drilling equipment.

- C. Service vehicle(s) for next operation.
- D. Return to Bureau of Materials Headquarters.

**V. Additional Duties**

The Equipment Operator shall:

- A. Operate portable coring rig, rotary impact hammer, portable power plant and other necessary equipment.
- B. Perform minor repairs on vehicle(s) and equipment noted under "A" above. Service equipment as required.
- C. As directed by the inspector or Supervisor, perform any other safety function or duty normally involved with the coring operation.

**VI. Responsibilities**

The Equipment Operator shall:

- A. Be responsible for the proper operation and servicing of all assigned equipment.
- B. Inform the inspector when equipment is not working properly.

**NOTE:**

*The servicing of vehicle(s) and daily truck inspections at the Fernwood Garage will be under the supervision of the Assistant Foreman.*