

## **MARKER No. 14: PHEBE JOHNSON (d. 1816) wife of Ezekiel Johnson**

### **EXISTING CONDITIONS**

- The marble headstone is in fair/poor condition as it is broken into two (2) fragments, however, the marble material itself appears to be sound. There is slight material loss and erosion around the fracture line. Inscriptions are legible.
- The bottom headstone fragment is in the ground, adjacent to part of a non-original concrete base. The upper fragment is leaning against the bottom fragment.
- The headstone fragments are experiencing biological growth and slight staining.
- No evidence of a stone base.



*Before (July 2008)*



*After (May 2009)*

### **TREATMENT SUMMARY**

#### **A. Excavation/Fragment Recovery**

1. Remove headstone from ground.
2. Search for base.

► base for this headstone not located, however, found sandstone fragments may be part of the base for Mary Avery.

#### **B. Cleaning**

1. For removal of biological growth and general soiling, the marble headstone fragments were cleaned with D/2 Architectural Antimicrobial.
  - a. Clean water at low pressure (max 300 psi) and hand-pump sprayer.
  - b. Natural or nylon bristle brushes (varying stiffness and sizes).
  - c. Avoid dissolution or erosion of the stone.► stone was successfully cleaned, however, very slight biological staining and discoloration remain, which cannot be removed without harsh methods.

#### **C. Re-attachment and Repair**

1. If recovered, re-attach sandstone base fragments using two-part stone epoxy and stainless steel or nylon pins.  
► base fragments for this headstone not found
2. Re-attach two marble headstone fragments using two-part stone epoxy and threaded brass rods.  
► fragment re-attachment clamped in place for 12 hrs.
3. Point and infill where necessary around attachment seam.  
► resultant seam and minor losses pointed with custom mixed Type O mortar (lime-based, with marble dust).

#### **D. Reset and Level**

1. If sandstone base is recovered and repaired, reset base at proper depth upon compacted gravel and set marble headstone into slotted sandstone base with a Type O mortar mix  
► base not found.
2. If sandstone base is not recovered, reset marble headstone in the ground, at proper depth, in a mixture of gravel, sand cement, and hydrated lime.

#### **E. Site Preparation and Repair**

1. Place pea gravel around base