

# CONSERVATION OF MONUMENTS AND GRAVESTONES AT PINE GROVE CEMETERY, WEST HARWICH MA

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## PROJECT DESCRIPTION

- In the spring of 2022, Village Green Restoration Inc conserved both gravestones and multi-unit monuments in Pine Grove Cemetery, West Harwich MA. Conservation was carried out by Michael Gallagher and Ethan Howard of Village Green Restoration Inc.

# METHODOLOGY GRAVESTONES





Conservation methods adhered to specifications as provided by Ivan Meijer of Building Conservation Inc. A brief description follows.

- Gravestones were identified and documented.
- Downed and leaning gravestones were carefully excavated and hoisted.
- Broken monuments were repaired using Bonstone Clear Knife Grade Epoxy. Stainless steel pins were inserted when necessary and feasible.
- Cracks and areas of loss were repaired with the following:
  - Slate -- large patches and cracks Edison Coatings Custom System 45. Small cracks and areas of delamination Acryloid B-72, acetone and stone dust.
  - Marble -- Lithomix Natural Hydraulic Cement for Stone Repair "Aged Marble" color.
- Slab Gravestones were reset in  $\frac{3}{4}$ " dense grade bluestone compacted every six inches.
- If a gravestone did not have a sufficient length to set in the ground, a new custom concrete slot base was cast. The slab was set in the new base using a Type N mortar.
- Multi-unit gravestones were disassembled and then re-set using stainless steel threaded pins set with Bonstone Epoxy on one side and a type n mortar on the opposite side.
- Slot base and multi-unit gravestones were set on new poured concrete foundations of a depth of 3'. Bases were set to new foundations using Type S mortar.

## METHODOLOGY MONUMENTS



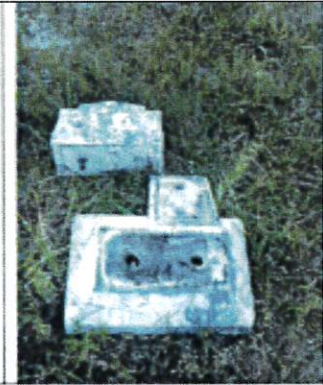



- Multi part monuments were carefully disassembled and laid on blocking.
- Rubble foundations were removed and new reinforced concrete foundations were poured.
- New pin holes were drilled in each unit.
- Monuments were reassembled with stainless threaded pins between units. One side of the pin was set in Bonstone Epoxy while the opposite was set with Type N thin set mortar.
- Joints between units were set with type N thin set mortar and plastic shims.
- Areas of loss and cracks were repaired with Lithomix Natural Hydraulic Lime Stone Repair Mortar.




Name, Road, Lot, Repair	Photo Before	Photo Aerft
<p>Harold Wilson, Pine Ave 3&amp;4</p> <p>Re-set 3 footstones</p>		
<p>Frederick Chase Pine Avenue 11</p> <p>Reset Kenneth Stone</p> <p>Re-set on new foundation, re- pinned</p>		





Name, Lot, Repair	Photo Before	Photo After
<p>Emma Baker 22 Pine Avenue</p> <p>William Baker Stone Straightened, reset on new foundation repinned</p>		
<p>Charles Hall 27 Pine Avenue</p> <p>Raise 5 foot markers</p>	 	





Name, Lot, Repair	Photo Before	Photo After
<p>George Kelley 28 Pine Avenue Reset and align two foot markers</p>		
<p>JD Chase 33 Pine Avenue  Resett and repair White Memorial Reset JOB Memorial</p>	 	 





Name, Lot, Road, Repair	Photo Before	Photo After
<p>Cyrus B Kelley 39 Oak Avenue</p> <p>Nellie reset and repinned</p>		
<p>J.B. O'Brien 40 Oak Avenue</p> <p>Thomas O'Brien Military marker reset.</p>		

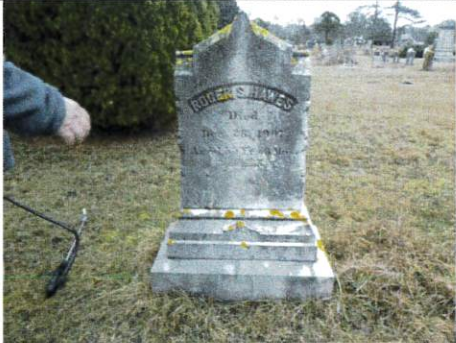







Name, Lot, Road, Repair	Photo Before	Photo After
<p>Robert Lothrop 41 Oak Avenue</p> <p>Mary and Gershom footmarkers reset.</p>		
<p>Charles Chase 43</p> <p>Corner markers and 4 footstones reset and realigned.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>James B Doane 44 Oak Avenue</p> <p>Corner marker reset</p>		
<p>Antone Silver 45 Oak Avenue</p> <p>Octavia Silver reset</p>		



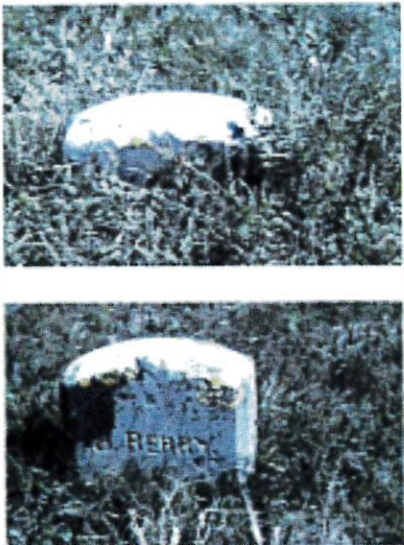



Name, Lot, Road, Repair	Photo Before	Photo After
<p>Clara M Long 51 Oak Avenue</p> <p>Father reset and aligned.</p>		
<p>John T Wood 56 Oak Avenue</p> <p>Reset two foot stones.</p>	 	


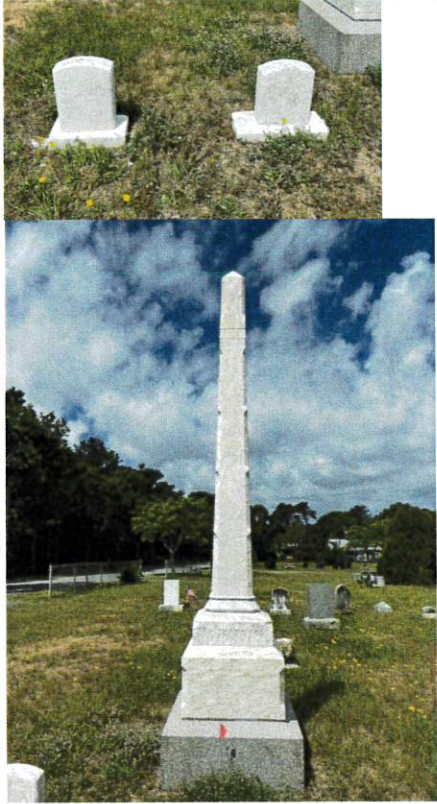

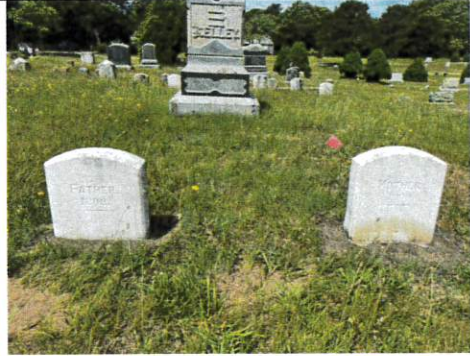
Name, Lot, Road, Repair	Photo Before	Photo After
<p>RS Howes 57 Oak Avenue</p> <p>Gravestone leveled and reset.</p>		
<p>JB Doane 59 Oak Avenue</p> <p>Aligned Father and Mother</p> <p>Reset Father.</p> <p>Cleaned and conserved Obelisk</p>	 	 



Name, Lot, Road, Repair	Photo Before	Photo After
<p>Alex Baker 60 Oak Avenue</p> <p>Clean and Conserve</p>		
<p>Henry T Nickerson 61 Oak Avenue</p> <p>Father stone reset and aligned</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Baxter Kelley 62 Oak Avenue</p> <p>Reset and align Emma, Eliza and Baxter footstones.</p>		
<p>J Berry Jr 64 Oak Avenue</p> <p>Reset two footstones</p>		



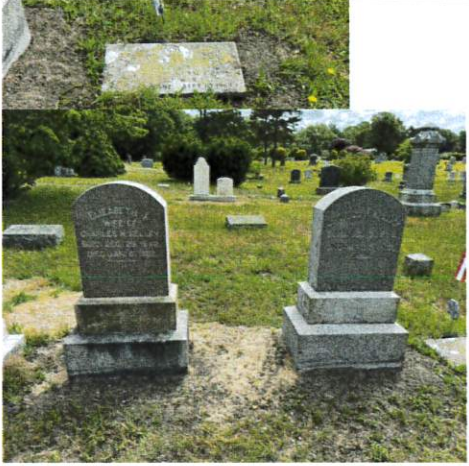

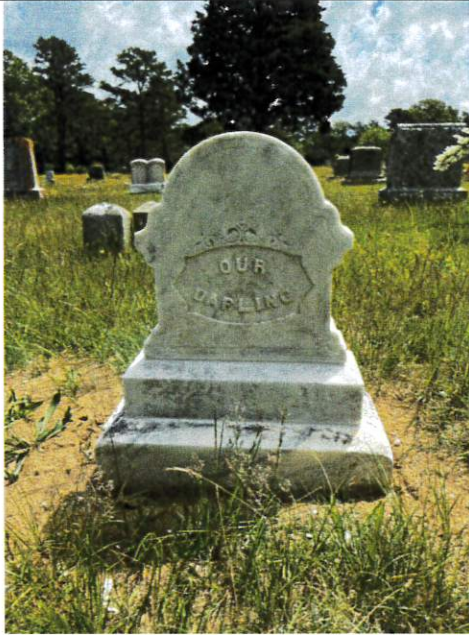
Name, Lot, Road, Repair	Photo Before	Photo After
<p>James Barnaby 66 Cedar Avenue</p> <p>Clean and Consolidate Large and small memorial Repairs on 2 foundations Father and Mother and unable to read</p>		
<p>Kelley B Chase 69 Cedar Avenue</p> <p>Reset father and mother.</p>		



Name, Lot, Road, Repair	Photo Before	Photo After
<p>Peter Raymond 71 Cedar Avenue</p> <p>Reset two footstones</p>		
<p>RE Howes 73 Cedar Avenue</p> <p>Resett and repair Elinor, Mary and Russel stones.</p>	 	 






Name, Lot, Road, Repair	Photo Before	Photo After
<p>Samuel James 75 Cedar Avenue</p> <p>Reset and repined Theresa stone</p>		
<p>Virginia Chase Next to Zaddock Chase</p> <p>Cedar Avenue</p> <p>Reset corner marker</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Charles Kelley 84 Cedar Avenue</p> <p>Elizabeth and Charles reset and repined. Military marker reset.</p>		
<p>George F Kelley 88 Cedar Avenue</p> <p>Our Darling reset and repined.</p>		




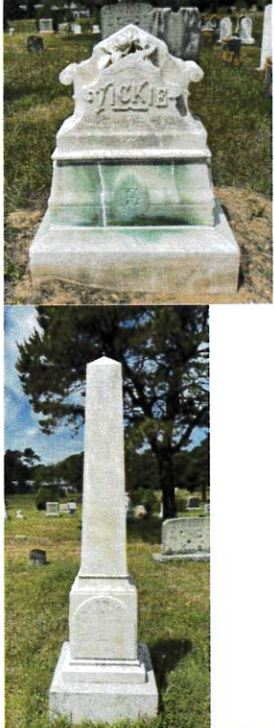


Name, Lot, Road, Repair	Photo Before	Photo After
<p>Jonathan Kelley 2<sup>nd</sup> 90 Cedar Avenue</p> <p>Alemena K and stairs reset.</p>		
<p>Isaiah Ellis 92 Cedar Avenue</p> <p>Double stone Mother &amp; Father reset and repined.</p> <p>Judah and additional stone broken in two pieces repaired and reset.</p>		




Name, Lot, Road, Repair	Photo Before	Photo After
<p>Everett Harris 96 Cedar Avenue</p> <p>5 footstones reset.</p>		
<p>JA Harris 97 Cedar Avenue</p> <p>Monument cleaned and consolidated.</p>		




Name, Lot, Road, Repair	Photo Before	Photo After
<p>Neri Chase 99 Willow Avenue</p> <p>Reset memorial.</p>		
<p>Thomas Ellis 103 Willow Ave</p> <p>Monument cleaned and conserved.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Nehemiah Kelley 104 Willow Ave</p> <p>Vickie memorial repaired, repined and reset.</p> <p>Obelisk cleaned and consolidated.</p>		
<p>G Kelley 105 Willow Ave</p> <p>Gravestone and stairs, repaired, repined and reset.</p>		



Name, Lot, Road, Repair	Photo Before	Photo After
<p>WW Chase 107 Willow Ave</p> <p>Resett corner markers.</p>		
<p>Whitman Chase 109 Willow Ave</p> <p>Cleaned and consolidated.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Charles Kelley 111 Willow Save</p> <p>Repaired, repined and reset.</p>		
<p>John Keppel 114 Willow Ave</p> <p>Reset Father stone.</p>		







Name, Lot, Road, Repair	Photo Before	Photo After
<p>NW Garland 115 Willow Ave</p> <p>Reset corner marker</p>		
<p>Eleanor P Chase 117 Willow Ave</p> <p>Eleanor and Obed stone reset.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Abbie Small 118 Willow Ave</p> <p>Abbie memorial reset.</p>		
<p>Chase 120 Willow Ave</p> <p>Lavinia stone reset.</p>		




Name, Lot, Road, Repair	Photo Before	Photo After
<p>Joshua Chase 121 Willow Ave</p> <p>Cleaned and consolidated.</p>		
<p>Erastus Chase 124 Willow Ave</p> <p>Obelisk reset and pinned.</p> <p>Sarah Abby Chase reset.</p>		



Name, Lot, Road, Repair	Photo Before	Photo After
<p>David Kelley 127 Willow Ave</p> <p>Babies repaired and reset.</p> <p>Abby, Emma and Mother reset.</p>		
<p>Warren Smith 129 Linden</p> <p>Hellen Ellis and Emily Smith reset.</p>		







Name, Lot, Road, Repair	Photo Before	Photo After
<p>Jossen Poole 136 Linden Ave</p> <p>Joseph and Anaretta reset.</p>		
<p>Amos Wixon 140 Linden Ave</p> <p>Raised and reset 3 foot stones.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Nathan Chase 145 Linden Ave</p> <p>Reset memorial</p>		
<p>Martin Chase 147 Linden Ave</p> <p>Jennie Cole Memorial repined and resett</p>		



Name, Lot, Road, Repair	Photo Before	Photo After
<p>Benjamin Sears 150 Linden Ave</p> <p>Tree removed, stone reset.</p>		
<p>Thomas Crew 152 Linden Ave</p> <p>Thomas &amp; Bathsheba stones reset. Corner stone reset. Cobb/Crew memorial cleaned and conservd.</p>	 	 


Name, Lot, Road, Repair	Photo Before	Photo After
<p>Nehemiah Smith 153 Linden Ave</p> <p>Nehemiah Smith , Sarah and Jerusha stone reset.</p>		
<p>FG Doane 154 Linden Doane</p> <p>Wife and husband stones realigned.</p>		




Name, Lot, Road, Repair	Photo Before	Photo After
<p>Nathaniel Robbins 155 Linden Ave</p> <p>Cross repaired and pinned cleaned and conserved.</p>		
<p>Anthony Kelley 156 Linden Ave</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Benjamin Chase 157 Linden Rd</p> <p>\$ Headstones and lamb cleaned and conserved.</p>		
<p>Joseph Baker 161 Elm Ave</p> <p>Caroline and Emiline footstones reset.</p>		






Name, Lot, Road, Repair	Photo Before	Photo After
<p>Peter Chase 163 Elm Ave</p> <p>Peter Chase reset.</p>		
<p>Hook lots &amp; Martin Chase Lot 166, 169,178 Elm Ave</p> <p>Reset two corner markers</p>		







Name, Lot, Road, Repair	Photo Before	Photo After
<p>J Walker 179 Elm Ave</p> <p>Removed tree, reset monument.</p>		
<p>Charles Hamilton 180 Elm Avenue</p> <p>Charles Hamilton reset.</p>		



Name, Lot, Road, Repair	Photo Before	Photo After
<p>Captain Alonzo Chase 184 Elm Avenue</p> <p>2 footstones reset.</p>		
<p>Ebenezer Smith 185 Elm Ave</p> <p>Memorial reset.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Gustavus Crowell 191 Maple Ave</p> <p>Tablet resett</p>		
<p>Celia B Bennett 194 Maple Ave</p> <p>Cora and Charles reset.</p>		





Name, Lot, Road, Repair	Photo Before	Photo After
<p>Mcmillan 202A Maple Ave</p> <p>Corner marker reset</p>		
<p>Mercy Crowell 204 Maple Ave</p> <p>Mother stone reset.</p>		

Name, Lot, Road, Repair	Photo Before	Photo After
<p>Susan K Howland 209 Maple Ave</p> <p>Reset Marion Howland.</p>		
<p>JR Sisson 211 Maople Ave</p> <p>Our Darling repaired and reset.</p>		




Name, Lot, Road, Repair	Photo Before	Photo After
<p>Jeremiah G Parks 215 &amp; 216 Maple Ave</p> <p>JHT and APT reset and aligned.</p> <p>Memorial plaque reset and raised.</p>		
<p>Annie M Chase 243</p> <p>Birch Ave</p> <p>Memorial reset.</p>		



Additional Monuments Treated	Photo After	
<p>Debrah Nickerson</p> <p>Repaired and reset.</p>		
<p>Mother</p> <p>Repined and reset.</p>		



Additional monuments treated.	Photo After
Baker infants reset.	
Baker reset.	