WINTER STREET CEMETERY

CONSERVATION TREATMENT REPORT

EXETER, NEW HAMPSHIRE

Submitted To: **Town of Exeter**
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EXETER, NEW HAMPSHIRE SUMMER-FALL 2017

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COPE OF WORK

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- COMMUNITY PRESERVATION WORKSHOP
- HAZARDOUS MARKER RESETS
- CONDITION ASSESSMENT
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- PRESERVATION PLAN (submitted as a separate document)

CEMETERY SITE REVIEW AND MARKER COUNT

A detailed site review is included in the Preservation Plan.

All markers were counted in the cemetery and tallied by section, marker type, material type and general conditions. A printed summery attached to the end of this document provides a useful overview. Excel spread sheets organized per section, included in the accompanying digital documents, give specific information for each individual marker counted.

The existing map divides the cemetery into six sections, A-F. The database of burial names and dates has plot numbers added to coordinate with the map. The printed list provided by the Historical Society has the following tallies per section.

Database Count

Section A:	145
Section B:	107
Section C:	108
Section D:	162
Section E:	117
Section F:	95
	734

The 2017 count of all markers in the cemetery provides the following totals per section. Note the totals are for markers of all types, including monuments, flush markers, headstones and footstones, many of which are rubble without text.

Site Count

Section A:	202
Section B:	166
Section C:	185
Section D:	243
Section E:	152
Section F:	117
	1,065

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WINTER STREET CEMETERY GRAVEMARKER COUNT

MARKER TYPE	SECTION A	SECTION B	SECTION C	SECTION D	SECTION E	SECTION F	TOTAL
Rubble Headstone With Text	25	6	2	10	0	5	**48**
Rubble Footstone With Text	1	0	0	0	0	0	**1**
Rubble Headstone Without Text	10	13	17	36	29	13	**118**
Rubble Footstone Without Text	3	9	3	1	1	0	**17**
Tablet Headstone	75	80	100	116	75	58	**504**
Tablet Footstone	50	48	58	70	45	38	**309**
Multi Stone Headstone	3	6	1	7	1	1	**19**
Multi Stone Footstone	2	0	0	0	0	0	**2**
Flush Headstone	17	0	0	0	0	0	**17**
Flush Headstone with Base	9	0	1	0	1	0	**11**
Monument	3	2	0	1	0	1	**7**
Government Issued Marker	4	2	3	2	0	1	**12**
TOTAL	**202**	**166**	**185**	**243**	**152**	**117**	**1065**

MARKER MATERIALS	SECTION A	SECTION B	SECTION C	SECTION D	SECTION E	SECTION F	TOTAL
Fieldstone/Rubble	26	29	22	48	30	18	**173**
Slate	63	66	71	105	49	58	**412**
Marble	109	66	91	89	68	37	**460**
Granite	15	10	3	4	2	2	**36**
Limestone	0	0	0	0	1	0	**1**
Sandstone	1	0	0	0	0	0	**1**
Concrete	0	0	0	0	2	3	**5**

MARKER CONDITIONS	SECTION A	SECTION B	SECTION C	SECTION D	SECTION E	SECTION F	TOTAL
Prior Repairs	10	16	16	22	16	6	**86**
Stable	86	50	73	68	71	49	**397**
Leaning	66	73	62	98	38	35	**374**
Fallen	7	16	25	38	29	4	**119**
Buried	16	9	7	19	3	3	**57**
Broken	29	25	26	38	24	13	**155**
Cracked	9	8	14	10	6	8	**55**
Displaced	8	12	11	19	4	16	**70**

COMMUNITY WORKSHOP

A workshop was designed in coordination with the Town and Heritage Commission to educate a diverse group of community members on the importance of the cemetery and simple actions that can be accomplished by the community for ongoing preservation. Participants included grade school kids, students from Exeter High School and Philips Exeter Academy, local families, descendents, members of the Kiwanis' Club, the Heritage Commission and Town officials.

A short lecture component reviewed the history of the site, the types of markers and carvings found at Winter Street Cemetery, the causes for deterioration and falling markers, general safety, and appropriate "do's and don'ts" for cemetery preservation and documentation. The "hands on" components focused on locating displaced markers, probing for buried markers, and unearthing and resetting leaning, fallen and partially buried markers. Starting in Section A and moving forward, small markers were reset to prevent loss or displacement and to visually unify the site. Each reset was identified with a colored flag to identify the previous condition of the stone. Markers reset in Section B were not flagged; it is estimated that 10-20 stones were reset, mostly comprised of smaller marble and rubble markers. The participants accomplished an impressive amount of work and made a significant visual improvement. The following statistics summarize the efforts in Section A.

- ***88% leaning markers -*** 53 of the remaining 60 markers that were leaning after conservation treatment of the site were reset (those remaining are multi-section headstones and flush markers).
- ***86% fallen marker -*** 6 of 7 fallen markers remaining after conservation treatment were reset (it would **have** been 100%, but marker 135 was too deteriorated to reset vertically).
- ***58% partially buried markers -*** 7 of 12 of partially buried markers remaining after conservation treatment were reset (those remaining are flush markers that may require additional gravel and may have sunken granite bases; the resetting of the granite base for A109 required substantial work that exceeds the scope of the workshop).
- ***12% displaced markers -*** 1 of 8 displaced markers (one of these is a rubble stone without text that will be a challenge to locate).
- ***2 Completely Buried Markers*** - the ground was probed behind headstones that had no corresponding footstones and two markers were located, unearthed and reset (this is notable given the site was probed by the Dufours and indicates additional markers are likely buried).

Following resetting, a second lecture discussed the small growths found on stone markers and the need for removal or not. A demonstration explained the safest cleaning methods of using antimicrobial solutions, such as ReVive (see Cleaning below) for treating stones without scrubbing. Promoting the safest cleaning methods was emphasized, which is particularly important for colonial era markers. Small teams formed and cleaned all of the markers in Section A and the first 3-4 adjacent rows of section B.

HAZARDOUS MARKER RESETS

A walk though the cemetery designated the following hazardous markers for resetting. The markers were identified due to their size and physical condition; some markers were chosen because they have previous repairs and may be relatively unstable if leaning. Many smaller markers and markers in slightly more sound condition are also leaning and not identified here. These stones should be addressed in future preservation campaigns.

Reset Markers

All designated makers were reset. Marker A 39 required a cast concrete base. Markers D53, F29 and F73 have below grade conditions that require additional treatment. These markers were reset plumb but are not ideal and should be addressed in future treatment campaigns. *Before* and *After* treatment images are included in the report. *During* treatment images were included to provide additional information as needed.

A39 Headstone
B18 Headstone
B19 Headstone
B43 Headstone
B44 Headstone
C111 Headstone
D53 Headstone
D98 Monument - Obelisk
D106 Headstone
E16 Headstone
E67 Headstone
F29 Headstone
F44 Headstone

Additional Rests

Flush marker A81 and headstone A135 were badly deteriorated and reset flush on gravel beds to slightly lift the stone from below grade and provide drainage. Marker B45 is a large marble that was leaning and was reset to allow for the resetting of B44. Markers B106 headstone and accompanying B106 footstone were displaced markers whose burial place was identified in the workshop. The headstone required a cast concrete base for support. These markers are documented and included in the Reset Images.

Additional Reset Markers

A81 Headstone – Flush marker
A135 Headstone – set flush due to deterioration
B45 Headstone
B106 Headstone
B106 Footstone

MARKERS SELECTED FOR TREATMENT

The following markers were selected for their obvious need for treatment and the high priority from a conservation perspective. All treatments are located in Section A, with the exceptions of B71, Samuel Leavitt, which is visually distracting and adjoins Section A, and F80, Tobias Cutler, which is a historically significant, African American, Revolutionary War veteran's marker defaced by vandalism.

The budget allowed for two weeks of onsite treatment for the conservator and an assistant, giving a total of 160 combined hours. The work included the resetting of hazardous markers and proceeded to the designated treatments, focusing on Section A with priority 1 markers first. Treatments were batched to maximize efficiency and maximize object preservation.

During treatment, it was discovered that Markers A59 and A136 had concrete poured around the upper portions of the stone that were buried below grade. These markers were not treated at this time and reset plumb. This gave additional time to treat markers A82 and A93, which were designated as Priority 2. Marker A80, also designated as priority 2, was brought to conservation studio for treatment under a separate contract.

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Marker A41, a broken, slate footstone, was found below grade during the workshop. The marker was treated and reset.

Completed Treatments

A22 Headstone
A29 Headstone
A30 Headstone and base
A41 Footstone
A71 Headstone
A76 Headstone
A82 Flush Marker
A93 Flush Marker
A104 Headstone
A108 Flush Marker
A109 Flush Marker
A126 Headstone
A145 Footstone
B71 Headstone
F80 Headstone

Reset with no further treatment due to complications found.

A59 Headstone
A136 Headstone

Brought to studio for treatment over winter 2017/18

A80 Flush Marker
A145 Headstone

GENERAL CONDITION ASSESSMENT

Note

This section was copied from the Winter Street Cemetery Condition Assessment and Recommended Treatments submitted in the summer of 2017. It is included here for continuity of the general conditions found and subsequent treatments.

The following is a general assessment of the site, primarily in Section A. Section A was selected due the close proximity of the section to both gates, close proximity to the adjoining play lot which has ongoing daily visitation, and the need for restoration. Detailed assessments of select markers are given below in Detailed Condition Assessment and Treatment Proposal. A more comprehensive site review will be presented after conducting a site survey that will quantify the number of markers, marker types, materials and general condition. All information, including a review of historic documentation will be presented in a Preservation Plan.

Site Maintenance Impact

Many of the markers have abrasion and losses along the bottom edges from mowing maintenance. Several markers appear to be broken from impact.

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Vegetation
There are hazardous, dead trees on the site and displacement of markers by live trees. A large branch from a mature oak has fallen, remarkably missing surrounding markers. While minimal, there are additional vines and shrubs that hare causing visual obstruction and damage.

Surface Biological Growth
Most markers have small growths on the surface. Many of the stones have excessive growth obscuring text and artwork.

If the client is interested in removing the growth a botanist might first be consulted to determine which growths may be damaging and which may be inconsequential and potentially helpful. The National Park Service has found endangered and culturally significant plants growing in and around historic sites and cemeteries that have no detrimental effects to the stone. Any cleaning should be done using the least aggressive means possible. No scrubbing of the stone should be permitted. See Cleaning below.

Soiling and Staining
The only notable soiling or staining is from fallen markers or those buried too deeply hat have become stained from soil contact.

Prior Repairs
Resetting
Traditionally, markers of this age are directly set in the earth with no added gravel and certainly no added cementitious materials. Rubble stone can be found to help prop markers in sandy soil or aid in support under stones that were not cut/quarried flat on the bottom edges. Many of the markers in Winter Street Cemetery are set directly into concrete, which is not original to the site and can cause long-term damage to the stone. There is no notable damage to the markers at this time. The concrete should be monitored and the material removed as needed if damage is found.

Repairs
Many of the markers were previously broken and mended with a range of adhesives and cements. Many of the repairs have failed while others continue to maintain a good bond. Excessively hard cements were applied liberally and are visually unsightly. As with the concrete bases noted above, removal is not recommended unless visible damage is being caused from excessively hard repair materials and the potential harm from the removal process is substantially less than the damage being caused. In the case of current conditions, only surface removal is recommended.

Friable Stone
Stone grains can lose cohesion and become loosely attached, making the surface friable. The depth of damage depends on the stone type and exposure conditions. Historic marble headstones under normal display conditions develop a “sugared” texture. With added acidic deposition, the degradation can extend further into the stone. Porous sandstones and limestones often experience loss of granular cohesion more deeply. Most of the marble markers are sugared and others have lost granular cohesion.

Complications due to clay bodies and weakly bonded stone grains in Connecticut Valley sandstones lead to pockets of complete disaggregation. The regions with failure can result in loss of surface detail, cracks, delaminations, detached fragments and regional disintegration. Most sandstone is used as base material and no notable damage observed.

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Schists and slates can develop scaly surfaces from small delaminations along formation plains and mineral platelets. No substantial damage was observed.

Cracks
Cracks in the markers have formed along areas with granular cohesion failure and by stress and physical impact.

Losses
Losses to the stone surfaces has occurred due to cohesion failures and detachments of delaminations, and separated fragments along break-lines.

Breaks
Breaks have occurred to many of the stones, mostly at grade. The breaks typically result from excessive leaning or by external forces from falling trees, wind blasts, falling stones, maintenance accidents and vandalism. Markers misdesigned by being excessively high for the stone thickness often fail under minor stress and may require support braces for successful repair.

Missing Sections
If broken markers are not promptly repaired, large pieces can become separated from the site during maintenance (mower contact), gathering fragments and displacement for "safe keeping", burial, mindless clearing, and theft. The flush markers have a high percentage of missing stone fragments.

Leaning
Traditionally markers of this age are directly set in the earth with no added gravel and certainly no added cementitious materials. Occasionally rubble stone is found to help prop markers in sandy soil or aid in support under stones that were not cut/quarried flat on the bottom edges. Markers eventually begin to lean due to stone irregularities, uneven soil compaction, groundwater, freeze-thaw cycles, burrowing animals, soil build-up on hillsides, etc. Winter Street Cemetery has many markers with concrete surrounds with direct contact with the stones. Unfortunately, these encased markers are also leaning, complicating an otherwise simple resetting process.

Hazardously Leaning Markers
The point at which a marker becomes "hazardous" to itself, other markers and the public depends on the physical properties of the stone and conditions, such as the degree of lean, stone dimensions (height, width and thickness), material type, structural integrity, depth of the buried below grade portion, etc. Hazards to the stone, site and public include threat of breaking, falling, and being an obstacle for mowing/maintenance.

Markers can fall when the leaning conditions cross a critical threshold and by physical impact. Once fallen, the markers experience new sets of display conditions. The horizontal stones have greater impact from weather, standing water, continued dampness, soil pH exposure to carved elements, soil staining, possible impact from pedestrians and maintenance crews/equipment, threat of complete burial over time, displacement to new locations and possible theft.

Set Below Grade
Rising ground levels, settling, and stones either cut or broken below grade can all contribute to a marker or base being set inappropriately low, obscuring carved features and text. If set too low, markers also contribute to visual anomalies for the site and possible increased threat of mower/maintenance damage to the carved surfaces.

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Vandalism
Marker F80, Tobias Cutler, is one of the few African American markers in the cemetery. The slate headstone honoring this Revolutionary War veteran is defaced with this tar on the front and back of the stone. No other vandalism was noted.

OBJECTIVE AND APPROACH TO TREATMENT

Governing Philosophies

A committee should meet to discuss the history, current conditions and future of the cemetery. From the discussions, conservation parameters should be developed to guide treatment options such as the amount of replication desired for missing carved detail, the desired orderliness of plumb, extent of cleaning, the acceptance or intolerance of more natural grasses, etc. These issues will be discussed and formalized in a Preservation Plan for the cemetery.

General Conservation Guidelines

The goals of the conservation treatment should emphasize minimal intervention by using the least aggressive means possible to achieve the most successful conservation results. To achieve such results, it will be necessary to test each recommended procedure to determine which approach is most appropriate for the objects and most acceptable to the owner. Therefore, when a procedure is recommended a conservator should only institute it after the proper testing has been done. For this reason, it should be noted that although a specific treatment may be recommended, the actual treatment should rely on the information generated from the tests. The client should be kept informed on the progress of the treatment and notified if deviations are necessary. The client should make all final decisions in the conservation proposal including the aesthetic choices available during the conservation process.

TREATMENT PROCEDURES

Conservator

The Qualifying Conservator, Francis Miller, was present and actively lead all phases of treatment. Silas Finch assisted with treatments.

Water Supply

All water used during the conservation process was municipal water filtered with individual 30 micron sediment and activated charcoal filters. The filters were flushed for approximately 1 minute prior to use.

Artifacts

The site contained an unordinary amount of broken glass. No notable fragments were found. A broken, iron, veteran's flag holder/marker was found below grade while resetting marker B43. The object was given to the client.

Sod and Soil

Sod and soil were retained in plastic sheeting and tubs for reuse onsite, elevating on wood blocks to minimize suffocating surrounding grass as needed. Excess soil was stored on a natural earth rise behind a pine stand near marker A36.

Unearthing and Searching for Sections and Fragments

Markers requiring consolidation and other repairs were unearthed prior to treatment, searching the area for fragments as required. Earth disturbance was minimal.

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The areas were probed prior to digging to locate buried elements. The stones and elements were unearthed with hand shovels and small digging tools with care not to abrade stone. Small stones were lifted by hand with one to two people depending on weight. Heavy stones were lifted by hoist and clean nylon straps. Unearthed stones were placed on clean board or foam pads.

If the marker had losses of carved elements, the ground surrounding the marker was sieved for fragments. Fragments were placed in plastic bags labeled with the marker # using permanent pen and joined with the parent stone during treatment as possible. Unusable fragments were reburied alongside the marker.

General Cleaning of Biological Growth
Markers requiring no additional treatment were cleaned of biological growth using Quaternary Ammonium Compounds (QAC's) found in ProSoCo's ReVive. The solution was diluted with 5 parts water and applied using the manufacturer's specifications. The cleaning did not remove all growths; remaining growths will be eradicated and the surfaces slowly cleaned over the course of the following year.

Cleaning for Repairs
The gravestones were cleaned to the level necessary to continue subsequent treatments. The treatment region of the markers were washed with a solution of ReVive following the manufacturer's recommended procedures and gently scrubbed with natural bristle brushes. All surfaces were thoroughly rinsed with water after cleaning.

Cleaning Heavy Soiling or Stains
Heavy soiling was removed with a solution of Orvus and tap water. The solution was brushed on the surface with natural fiber brushes and rinsed with water.

Removal of Failing Repair Materials
Failing repair materials consisted of old adhesives and mortars. They were gently removed with a hammer and chisel, stainless steel scalpels, and Dremel. The adhesive on marker A145 was treated with Klean Strip Strip-X Stripper, a methylene chloride based coating remover. After approximately 6 applications, the outer edges had softened and were removed to a depth of approximately ½" -3/4" on the front and back surfaces. However, given the thickness of the stone, the central epoxy held firmly. The fragments were brought to Hamden, Connecticut to be treated in a fume chamber over the winter.

Failed pins were removed with wet diamond core drill and replaced with 316 stainless steel. See Pins below.

Tar Removal
Tests for tar removal were done with Smart Strip Pro safe stripper, which had minimal effect. Additional tests were done with wood scrappers to remove the bulk of the tar followed by Klean Strip Strip-X Stripper, a methylene chloride based coating remover. The material was brushed onto the surfaces and allowed to dwell for approximately 10-25 minutes. The stripper was removed with pressurized water set a 500 psi with a 40 degree fan tip and working distance of 18-24". Dwell times were dependent on ambient temperature and sun exposure to the stone and varied between 15 minutes up to 60 minutes. The stripper successfully removed all residues after 4 applications.

Consolidation
Marble requiring consolidation was treated with Conservare HCT manufactured by ProSoCo. The consolidant is designed for calcareous material. The three application regiment followed manufacturer's recommended procedures.

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Crack Injection
Small cracks in the marble were filled with Void Span Lime Injection Grout or Jahn M30, depending on crack size and configuration. The grouts were pigmented to match parent stone with alkali and light stable pigments.

Cracks were cleaned with pressurized air followed by pressurized water up to 100-psi in a portable tank. The cracks were pre-dampened with a solution of 5% ethanol and water. The grouts were injected by appropriate syringe and gauged needles, to fill voids and to maintain an appropriate set-back for fills. Surrounding, non-treated areas were kept clean. Plastic covering and periodic misting maintained damp conditions for the initial 5 days cure period.

Epoxy Mending
Selected for outdoor moisture insensitivity, and flexibility, Akemi Akepox 2030 epoxy was used for bonding stones. The stone surfaces were washed with Orvus, rinsed with water and allowed to dry for 24 hours. The mating surfaces were rinsed with acetone using natural fiber brushes, blotted dry with clean cotton towels and air dried for a minimum of 24 hours. The sections were dry fit to determine the epoxy lines, joint thickness and areas with losses. Marking these stone regions with pencils designated the application regions.

An Orvus solution (1:1 with water) was applied to the viewable surfaces to act as an epoxy release to prevent epoxy smears and stains. The epoxy was applied with stiff, natural-bristle brushes over the entire, delineated, bond area and clamped, or set under gravity compression, for a period of 24 hours. During the initial set of the epoxy, when reaching taffy like consistency, stainless scalpel removed the excess epoxy and appropriate set-back levels for fills. The release prevented epoxy from bonding to the viewable areas; extreme care was taken not to abrade the stone. Water removed the Orvus resist after the epoxy cured for 24 hours

Fills for Injections, Cracks and Mends
Surfaces were cleaned and mend adhesives cut back to 2x the width of the break-line. The recesses were filled with an appropriate composite patching mortar such as Jahn 120 Marble Patching Mortar for marble. As a preventative measure, fills were made along areas of thin delamination that catch water.

The fill material was tinted with Bayferrox and Solomon and Grind lime insensitive, light fast pigments as needed, not exceeding 2% by dry weight. All fills were tightly packed, tooled flush and textured to match surrounding stone as needed. The fills were covered with plastic and periodically dampened with water for a period of at least three days.

Loss Replacement
Losses in stone were made using the same materials and procedures for Fills above. Carved text and designs were replicated in the losses to provide a unified appearance to the marker. Small losses along outer edges and other losses associated with normal outdoor exposure were not filled unless they posed additional threat to trapping water.

Pins
If the broken sections, particularly those broken at grade, did not have adequate support and were thick enough to withstand drilling a hole, such as marker A30, the object was pinned using the smallest 316 stainless steel threaded rod possible for the application. The pins are intended to allow the upper stone to free-stand in case of future epoxy failure. The holes were cored with a water-cooled, diamond core bit and flushed with clean water and dried. Degreased with acetone and dried, the 316 grade stainless were set with Hilti Hit epoxy. The pin lengths are dependent on stone dimensions, in general a minimum of 2” long (1” extending into stone on each

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side), for small footstones and 4" long (2" extending into stone on each side), for headstones. The exact pin length is dependent on the stone condition and is described on individual sheets attached to this document.

Direct Burial Setting

Treatments thoughtfully respected the historic character and fabric of Winter Street. Leaning, fallen or displaced stone requiring directed burial setting were reset plumb with as little alteration and introduction of foreign materials as possible. The character of the site, including irregular row patterns and markers facing inconsistent directions was maintained when resetting. If markers appeared to be mis-set from a previous treatment, corrections were made.

Leaning stones were set plumb by removal of earth only on the sides needed. The markers were carefully excavated and not pulled through undug earth. Holes were slowly dug, taking care not to damage buried markers/artifacts. The holes were 4-8" larger in perimeter than the marker's foot print. The removed earth was sieved for marker A145. Marked bags organized the found fragments. Existing sod placed in containers on wood blocks, kept the grasses alive for replanting.

Markers were set to an appropriate height to read text and carved detail and to match the stone cutters' designs. A minimum of 1/3 the stone length extended below grade. Soils were replaced in lifts and tamped for compaction. If the marker did not adequately support itself without obscuring the text then a below grade concrete base was required.

Other than a base needed for appropriate viewing, no additional gravel or other foreign materials were added around the stone for support or drainage. Rubble, and the occasional existing brick found under a marker, was placed under the stone to help level with non-square, irregularly or angularly shaped bottom edge.

The site was raked and cleaned of debris after treatment.

Concrete Bases

Cast concrete bases were added below grade for markers that were broken, missing lower portions or otherwise configured to not allow for appropriate viewing. The design of the concrete bases is based on the traditional slotted base system commonly used in the 19th century for setting marble markers on base stones below grade. It resembles a mortise and tenon, with the mortise being the recess in the middle of the concrete and the tenon being the entire bottom end of marble.

The slope of the concrete followed the contour of the historic marker; stones having angular shaped bottoms had concrete bases with matching surface and slot angles providing consistent slot depth for each historic marker. The central slots were cast with room for the marker and a ¼" perimeter mortar joint. The wall thicknesses are a minimum of 3" thick for small footstones and 5" thick for headstones. Overall heights of concrete bases are a minimum of 6" for small footstones and 8" for headstones.

Base A39 was cast in place onto a flat, squarely dug, compacted earthen hole. Base B106 was cast in a frame and set level after cure. Bases were cast with Quikrete 5000, a fast setting concrete with high compressive strength. The earth was pre-dampened and the poured concrete tamped to remove excess air. Bases were covered with plastic and misted with water to keep damp for a minimum of 5 days.

The markers were placed on lead shims in mortise bottoms to achieve plumb for the stone. The stones were set with mortar of 1 part Saint Astier Naturally Hydraulic Lime NHL-2 and 2.5 parts fine silica sand. Water added to the concrete slot concrete created a slurry that flowed round the contours of the stone. The vertical

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walls were pointed using a normal mortar consistency, keeping mortar application clean and marker clean at all times. The mortar was cover with plastic and kept damp for a minimum of 5 days.

Structural Supports
Marker A22 was considered for a stainless steel structural support. After reviewing the conditions, it was decided not to add the foreign device. The marker should be monitored, and braces installed if needed. Braces were fabricated and can be set following the guidelines below.

The metal will not contact the stone; a gap will be designated to each side of the marker and filled with setting compound. Stainless steel ends will be set in base with Hilti Hit 200 moisture insensitive epoxy designed for anchor applications.

MATERIALS
1. Akemi Akepox 2030 Epoxy
2. ProSoCo Conservare HCT Consolidant
3. ProSoCo ReVive
4. Jahn M120 Patching Mortar
5. Lehigh White Portland Cement
6. VitaCal Calcium Oxide lime
7. Quikrete 5000 Concrete
8. Hilti Hit 200 Epoxy
9. Saint Astier Naturally Hydraulic Lime 2
10. Klean Strip Strip-X Stripper

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COMMUNITY WORKSHOP IMAGES

EWSC Workshop. 1. Overview along play lot looking toward Front Street before workshop.

EWSC Workshop. 2. Overview along play lot looking toward Front Street after workshop.

EWSC Workshop. 3. Overview looking toward play lot wall before workshop. Note marker A59 orange stake in midground.

EWSC Workshop. 4. Overview looking toward play lot wall and Front Street after workshop. Note marker A 59 in foreground.

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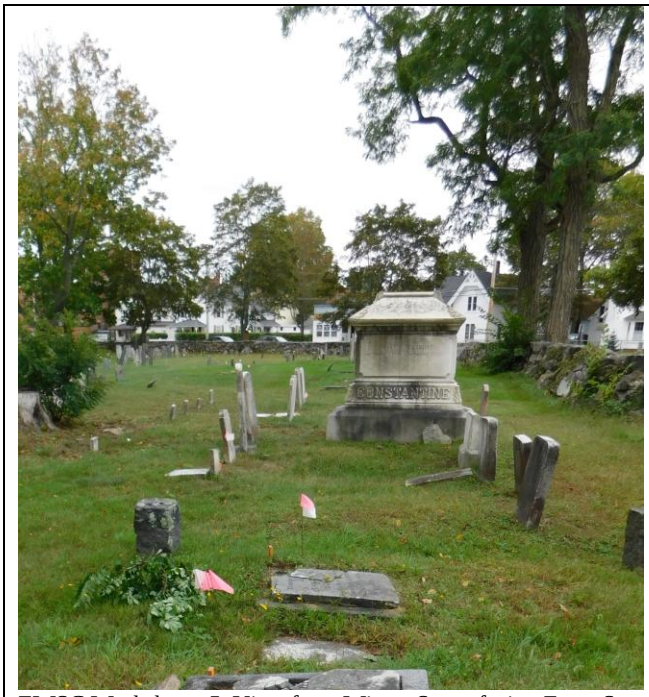
COMMUNITY WORKSHOP IMAGES



EWSC Workshop. 5. View from Winter Street facing Front Street before Workshop. Note markers 81 and 82 in foreground.

EWSC Workshop. 6. View from Winter Street facing Front Street after Workshop. Note markers 81 and 82 in foreground.

EWSC Workshop. 7. View from Front Street facing Winter Street before Workshop.

EWSC Workshop. 8. View from Front Street facing Winter Street after Workshop.

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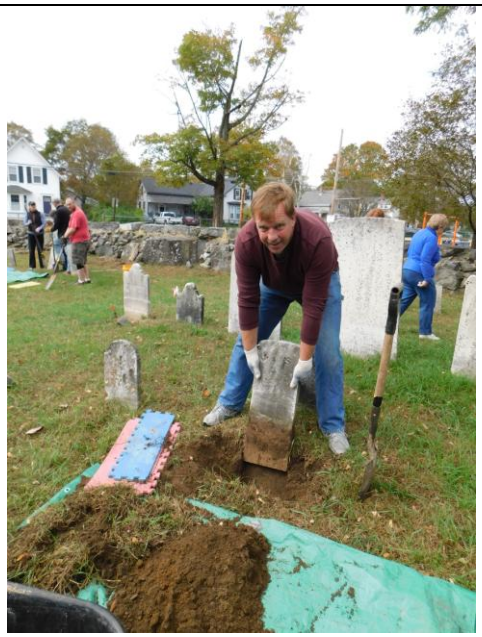
COMMUNITY WORKSHOP IMAGES

EWSC Workshop. 9. Resetting marble headstone.



EWSC Workshop. 10. Resetting marble footstone.

EWSC Workshop. 11. Overview of work in corner of play lot and Front Street.

EWSC Workshop. 12. High School students resetting markers.

COMMUNITY WORKSHOP IMAGES

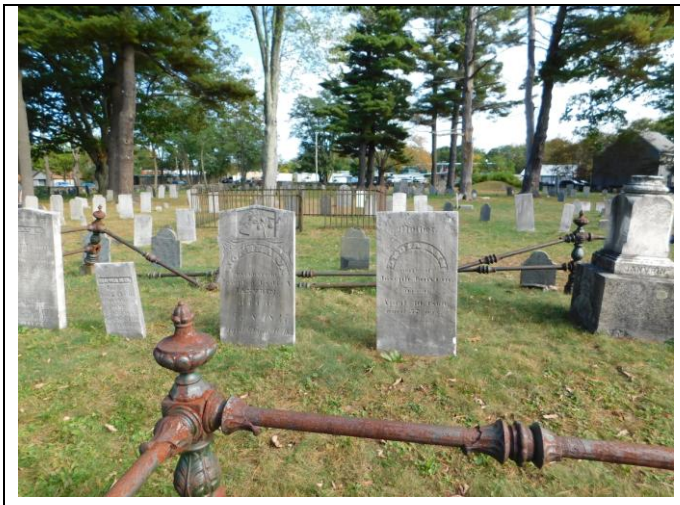
EWSC Workshop. 13. High School students resetting marble headstone.

EWSC Workshop. 14. High School student plumbing marble headstone.

EWSC Workshop. 15. Grades School student cleaning marble with ReVive.

EWSC Workshop. 16. Janvrin family markers before ReVive cleaning.

COMMUNITY WORKSHOP IMAGES



EWSC Workshop. 17. Janvrin family markers before ReVive cleaning.

EWSC Workshop. 18. Janvrin family markers before ReVive cleaning.

EWSC Workshop. 19. Janvrin family markers before ReVive cleaning.

EWSC Workshop. 20. Janvrin family markers before ReVive cleaning.

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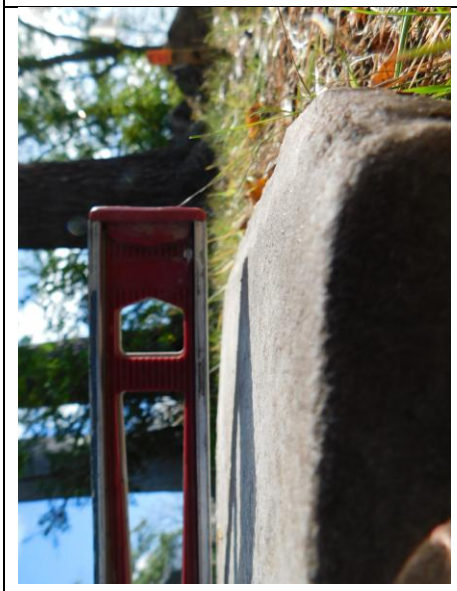
RESET IMAGES

EWSC A39 1. Before Reset.

EWSC A39 2. During Reset.

EWSC A39 3. During Reset. Warped stone.



EWSC A39 4. During Reset. Warped stone, detail.

EWSC A39 5. During Reset. Warped stone crack.

EWSC A39 6. During Reset. Concrete base.

RESET IMAGES

EWSC A39 7. During Reset. Braced marble in concrete base.

EWSC A39 8. Reset After

EWSC A135 1. During Reset. Compromised marble set on gravel for better drainage.

EWSC A135 2. After Reset. Compromised marble set on gravel for better drainage.

EWSC B18 1. Before Reset.

EWSC B18 2. Reset After.

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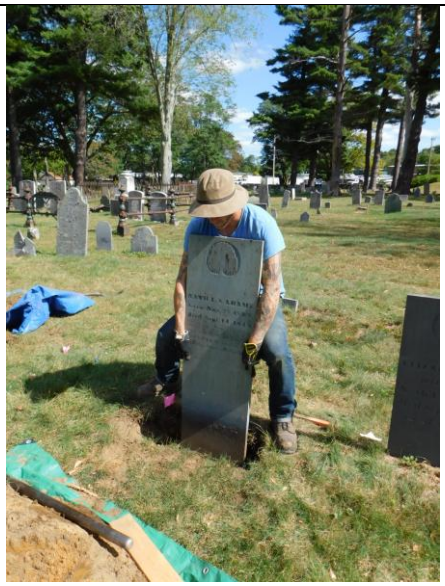
RESET IMAGES

EWSC B19 1. Before Reset.

EWSC B19 2. During Reset.



EWSC B19 3. During Reset.

EWSC B19 4. During Reset.

EWSC B19 5. Reset After.

EWSC B43 1. Before Reset.

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RESET IMAGES

EWSC B43. 2. After Reset

EWSC B44 and B45 1. Before Reset. Note the stone is behind 43, not part of original proposal.

EWSC B44 2. Reset After.

EWSC B45 2. Reset After.

EWSC B106 1. During Reset. Cast concrete base for headstone.

EWSC B106 2. During Reset. Detail of cast concrete base for headstone.

RESET IMAGES

EWSC B106 3. During Reset. Set in mortar in concrete base for headstone.

EWSC B106 4. After Reset.

EWSC B106 5. After Reset, footstone.

EWSC C111 1. Before Reset

EWSC C111 2. After Reset.

EWSC D53 1. Before Reset.

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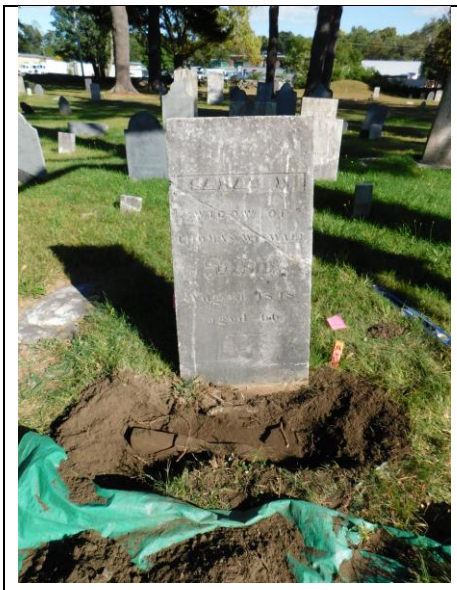
RESET IMAGES



EWSC D53 2. During Reset. Broken below grade and base set in concrete.

EWSC D53 3. During Reset. Detail of base set in concrete.

EWSC D53 4. Reset After.

EWSC D98 1. Before Reset.

EWSC D98 2. During Reset. Separated with gantry.

EWSC D98 3. During Reset. Removal of earth to original stone foundation.

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RESET IMAGES

EWSC D98 4. During Reset. Adding 2 inch crushed stone above original stone foundation.

EWSC D98 5. During Reset. Detail of crushed stone above original stone foundation.

EWSC D98 6. During Reset. Rigging obelisk onto lead shims on leveled base.

EWSC D98 7. Reset After.

EWSC D106 1. Before Reset.

EWSC D106 2. Reset After.

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RESET IMAGES

EWSC E16 1. Before Reset.

EWSC E16 2. Reset After.

EWSC E67 1. Before Reset.

EWSC E67 2. Reset After.

EWSC F29 1. Before Reset.

EWSC F29 2. During Reset. Stone broken below grade.

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RESET IMAGES

EWSC F29 3. Reset After.

EWSC F44 1. Before Reset.

EWSC F44 2. Reset After.

EWSC F73 1. Before Reset.

EWSC F73 2. During Reset. Marker has base, broken at base.

EWSC F73 3. Reset After.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A22** **NAME*:*** ***PRISCILLA RUNDLETT*** **DATE:** **1845**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 24” **W:** 15” **D:** 1 1/2”

1. EWSC A22. BT Front overview before treatment.

2. EWSC A22. BT Proper left overview before treatment.

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

■ **Cracks:** There is a small crack on the lower proper right, lower edge.

■**Breaks:** Stone has been broken into two sections.

■ **Losses:** There are losses along the break-line and a large loss to the proper left side.

❑ **Hazardous Alignment:**

■ **Previous Repairs:** There is failed epoxy along break-line from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A22**	**NAME*:*** ***PRISCILLA RUNDLETT***	**DATE:** **1845**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ❑ **Patch:** Jahn M120
- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

3. EWSC A22. AT Front overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

■ **Crack Injection:** All cracks were flushed with pressurized water (100 psi max.), using appropriate stainless steel needle gauge for crack opening and fragility of stone. Prewet cracks with 10% ethanol and water solution allowed for successful injection of Jahn M-31, tinted with pigments.

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

❑ **Resetting:**

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A22** **NAME*:*** ***PRISCILLA RUNDLETT*** **DATE: 1845**

4. EWSC A22. DT View of unearthed stone.

5. EWSC A22. DT Cleaning mating sections.

6. EWSC A22. DT Mending stone with epoxy.

7. EWSC A22. DT View of loss before fill.

8. EWSC A22. DT Loss replacement with Jahn 120.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A29** **NAME*:*** ***WILLIAM AND MARY ROBINSON*** **DATE:** **1802, 1843**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 36” **W:** 24” **D:** 2”

1. EWSC. A29. BT. Front overview before treatment.

2. EWSC. A29. BT. Back overview before treatment.

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and grain in boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

■ **Cracks:** There is a small crack on the lower proper right, lower edge.

■**Breaks:** Stone has been broken into two sections. There are pre-existing breaks

■ **Losses:** There are losses along the break-line and a large loss to the proper left side.

❑ **Hazardous Alignment:**

❑ **Other:**

■ **Previous Repairs:** The stone has numerous breaks that were mended with a cement adhesive. The repairs are misaligned and the mating areas not filled well with adhesive nor filled with patching mortar to shed water..

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A29**	**NAME*:*** ***WILLIAM AND MARY ROBINSON***	**DATE:** **1802, 1843**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ❑ **Patch:** Jahn M120
- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

3. EWSC A29. AT. Front overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Failed adhesive removed by hammer and chisel and by Dremel. Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

❑ **Resetting:**

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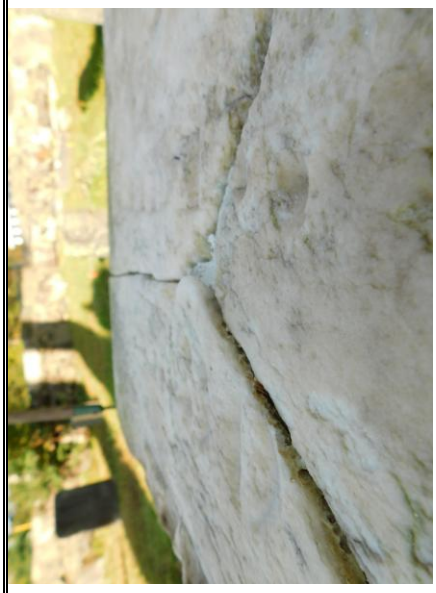
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A29** **NAME*:*** ***WILLIAM AND MARY ROBINSON*** **DATE: 1802, 1843**

4. EWSC. A29. DT. Removing failed adhesive mortar at break-line.

5. EWSC. A29. DT. Removing failed adhesive mortar at break-line.

6. EWSC. A29. DT. Misaligned previous repairs with adhesive mortars.



7. EWSC. A29. DT. Detail of misaligned previous repairs with adhesive mortars.

8. EWSC. A29. DT. Fills of misaligned previous repairs.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A30** **NAME*:*** ***MARY PAGE*** **DATE:** **1855**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
■ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 36” / 4” **W:** 20” / 29” **D:** 4” / 13”

1. EWSC. A29. BT. Front overview before treatment.

2. EWSC. A29. BT. Back overview before treatment.

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

■ **Cracks:** There is a hairline crack on the proper right side of the marble.

■**Breaks:** Stone has preexisting breaks in the lower marble.

■ **Losses:** There are losses along the break-line. The marble mid-base is missing.

■ **Hazardous Alignment:**

■ **Previous Repairs:** The stone was set in concrete along the granite base. Fragments of the marble were incased in the concrete.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A30**	**NAME*:*** ***MARY PAGE***	**DATE:** **1855**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ■ **Dowel(s):** 316 stainless Steel
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ■**Patch:** Jahn M120
- ■ **Aggregate:** Graded silica sand
- ■ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ■ **Foundation:** Crushed Stone
- ■ **Shims:** Sheet Lead

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

3. EWSC. A30. AT. Front overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:** The hairline crack was too tight to inject.

■ **Repairs:** Concrete was removed by hammer and chisel and by Dremel. Iron pins extracted by core drill. Stainless steel pins used to set stone. Pins extended upward in marble past the hairline crack. Holes cored with diamond core bits, flushed with water and dried. Pins set with Hilti Hit 200 epoxy. Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills/patches:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** Base leveled on crushed stone and tamped prior to joining marble to base.

■ **Joint:** The marble was set on lead shims. The joint was filled flush with Saint Astier Naturally Hydraulic Lime 3.5 and white silica sands. The pointing was covered with plastic and kept damp for 5 days for cure.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A30** **NAME*:*** ***MARY PAGE*** **DATE: 1855**

4. EWSC. A30. DT. Concrete poured around marble.

5. EWSC. A30. DT. Removing concrete and marble fragments around marble.

6. EWSC. A30. DT. Cleaning soiled marble.

7. EWSC. A30. DT. Aligning fragment for coring pins.

8 EWSC. A30. DT. Coring beyond crack to set pins.

9. EWSC. A30. DT. Existing copper alloy pin

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

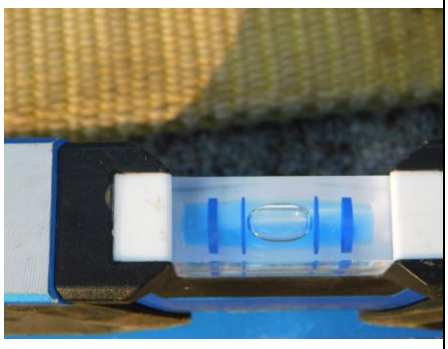
MARKER #: **A30** **NAME*:*** ***MARY PAGE*** **DATE: 1855**

10. EWSC. A30. DT. Core removal of failed pins in granite.

11. EWSC. A30. DT. Setting granite base on crushed stone.

12. EWSC. A30. DT. Setting granite base on crushed stone.

13. EWSC. A30. DT. Setting granite base using level.



14. EWSC. A30. DT. Setting granite base using level.

15. EWSC. A30. DT. Setting marble with stainless anchors.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A30** **NAME*:*** ***MARY PAGE*** **DATE: 1855**		
		
16. EWSC. A30. DT. Setting marble with stainless anchors extending past crack.	17. EWSC. A30. DT. Setting stainless anchors with structural epoxy.	18. EWSC. A30. DT. Patching large losses with Jahn M120.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A41 FS** **NAME*:*** ***ELIPHALET HALE*** **DATE:** **1801**

DESCRIPTION

Type:	❑ **Headstone**	■ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	❑ **Marble**	■ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	■ **Good**	❑ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 12” **W:** 9” **D:** ¾”

1. EWSC. A41 FS. BT. Front overview before treatment.

2. EWSC. A41 FS. DT. Front overview after bonding.

MARKER CONDITION

■ **Surface Growth/Soiling:** There are soil stains on portions buried below grade.

❑**Stains:**

❑**Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

■ **Cracks:** There are hairline cracks in the slate along stone anomalies.

■**Breaks:** Stone has a central break below grade.

❑**Losses:**

❑ **Hazardous Alignment:**

❑ **Other**: The broken marker was located below grade by probing the area during the community preservation workshop.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A41 FS** **NAME*:*** ***ELIPHALET HALE***	**DATE:** **1801**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ❑ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):** 316 stainless Steel
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ❑**Patch:**
- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ❑ **Fills:** Jahn M-120
- ❑ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Shims:** Sheet Lead

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

3. EWSC. A41 FS. AT. Front overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

❑**Consolidation:**

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. The mend is below grade; epoxy was not trimmed back

❑ **Fills/patches:**

■ **Resetting:** Reset in the earth in found location behind headstone.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A59** **NAME*:*** ***HOOK*** **DATE:** **-**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑**Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	❑ **Weathered**
■ **Traces**	■ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 27” **W:** 18” **D:** 2”

1. EWSC. A59. BT. Front overview before treatment.

2. EWSC. A59. DT. Unearthing revealed concrete poured around the stone.

MARKER CONDITION

■ **Surface Growth/Soiling:** There are soil stains on portions buried below grade.

❑**Stains:**

❑**Friable Stone:** Fine grain marble is lightly sugary to the touch, portions have lost all cohesion.

❑ **Spalls:**

■ **Cracks:** Portions of the stone riddled with cracks.

■**Breaks:** Stone has a central break at grade and pre-existing breaks.

❑**Losses:**

❑ **Hazardous Alignment:**

■ **Previous Repairs**: The marker has repairs to previous rates.

■ **Other:** Unearthing stone for repairs uncovered below grade concrete. Given the fragility of the stone and unknown loss associated with the concrete, the marker was reset and no further work done. The marker can be treated in a future campaign where the treatment duration permits full OH-100 consolidation.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A71** **NAME*:*** ***JOSIAH HALL*** **DATE:** **1847**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 24” **W:** 13” **D:** 1 ¾”

1. EWSC. A71. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and grain boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

■ **Spalls:** The stone has small spall on the upper portion.

❑ **Cracks:**
■**Breaks:** Stone has been broken into two sections.

■ **Losses:** There are losses along the break-line.

❑ **Hazardous Alignment:**

❑ **Other:** The stone was buried too deeply to read the text.

■ **Previous Repairs:** There is failed epoxy along break-line from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #:	**A71**	**NAME*:*** ***JOSIAH HALL***	**DATE:** **1847**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ❑ **Patch:** Jahn M120
- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

2. EWSC. A71. AT. Overview before treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** the lower section was reset plumb prior to repairs.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A71** **NAME*:*** ***JOSIAH HALL*** **DATE: 1847**

3. EWSC. A71. DT. Overview of epoxy preparation for mends.

4. EWSC. A71. DT. Detail of epoxy preparation for mends.

5. EWSC. A71. DT. Epoxy application on bottom stone.

6. EWSC. A71. DT. Sections clamped for epoxy set.

7. EWSC. A71. DT. Filling losses along break-line with Jahn M120.

8. EWSC. A71. DT. Marker covered with plastic for mortar cure.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A76** **NAME*:*** ***CHARLES HALL*** **DATE:** **1838**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 36” **W:** 16 1/2” **D:** 1 ¾”

1. EWSC. A76. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and grain boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

❑ **Cracks:**

■**Breaks:** Stone has a break at grade and a break at mid-stone.

■ **Losses:** There are losses along the break-line.

❑ **Hazardous Alignment:**

❑ **Other:** The stone was buried too deeply to read the text.

■ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A76**	**NAME*:*** ***CHARLES HALL***	**DATE:** **1838**

MATERIALS	❑ **Patch:** Jahn M120
■ **Cleaning:** ProSoCo ReVive, Orvus	❑**Aggregate:** Graded silica sand
❑ **Stain Removal:**	❑ **Lime:** St. Astier 3.5
■ **Consolidant:** ProSoCo HCT	❑ **Cement:** White Portland
■ **Adhesive:** Akemi Akepox 2030	■ **Fills:** Jahn M-120
❑ **Dowel(s):**	■ **Pigment:** Bayferrox and Solomon Grind
■ **Injection:** Jahn M-31	❑ **Foundation:** Crushed Stone
❑ **Other:**	❑ **Other:**
PERSONNEL Francis Miller, Silas Finch	
PROJECT DATES **Begin:** Summer 2017	**Complete:** Fall 2017

2. EWSC. A76. AT. Overview before treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

❑ **Resetting:**

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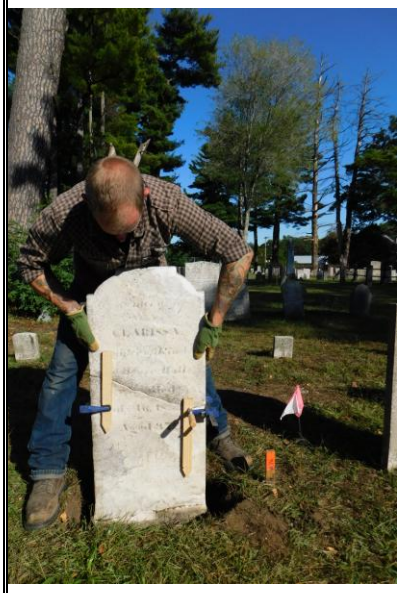
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A76** **NAME*:*** ***CHARLES HALL*** **DATE: 1838**

3. EWSC. A76. DT. View of lower potion with failed adhesive.

4. EWSC. A76. DT. Removal of failed adhesive.

5. EWSC. A76. DT. Mending lower break.



6. EWSC. A76. DT. Mending upper break.

7. EWSC. A76. DT. Front view after mending.

8. EWSC. A76. DT. Wetting break-line with Jahn mortar slurry.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A76** **NAME*:*** ***CHARLES HALL***		**DATE: 1838**
 9. EWSC. A76. DT. Filling break-line with Jahn M120.	 10. EWSC. A76. DT. Misting fills for cure.	

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A80** **NAME*:*** ***BENJ GILMAN*** **DATE:** **1835**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
■ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections: 2**
Material(s):	■ **Marble**	❑ **Slate**
■ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 18”/24” **W:** 24”/20” **D:** 2”/7”

1. EWSC. A80. BT. Overview before treatment.

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and grain boundaries.

❑ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**.

■ **Cracks:** The fragmented marble is riddled with cracks**.**

■ **Breaks:** The marble is broken into at least 7 sections. 4 sections were found on the base.

■ **Losses:** There are losses along the break-lines. The bottom, proper left corner is missing and the top proper right.

■ **Hazardous Alignment:** The granite is misaligned.

■ **Other:** The marker was an alternate and required too much treatment for the 2017 treatment period. The marker was brought to Hamden, CT for treatment over the winter.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A82** **NAME*:*** ***CHARLES GILMAN*** **DATE:** **1835**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
■ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections: 2**
Material(s):	■ **Marble**	❑ **Slate**
■ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 18”/24” **W:** 24”/30” **D:** 2”/7”

1. EWSC. A82. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

❑ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**.

❑ **Cracks:**

■ **Breaks:** The marble is broken into at least four sections; three were located on the base.

■ **Losses:** There are losses along the break-line. The top proper left corner is missing.

■ **Hazardous Alignment:** The granite is misaligned.

❑ **Other:** The stone was buried too deeply to read the text.

❑ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #:	**A82**	**NAME:** *CHARLES GILMAN*	**DATE:**	**1835**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ■ **Patch:** Jahn M120
- ■ **Aggregate:** Graded silica sand
- ■ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ■ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

2. EWSC. A76. AT. Overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills and Replacements:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** The granite was raised and leveled on a crushed stone bed.

■ **Joint:** The marble was set in a bed of mortar consisting of 1 part Saint Astier Naturally Hydraulic Lime 3.5 and 2.5 parts white silica sands. The end joints were pointed flush.

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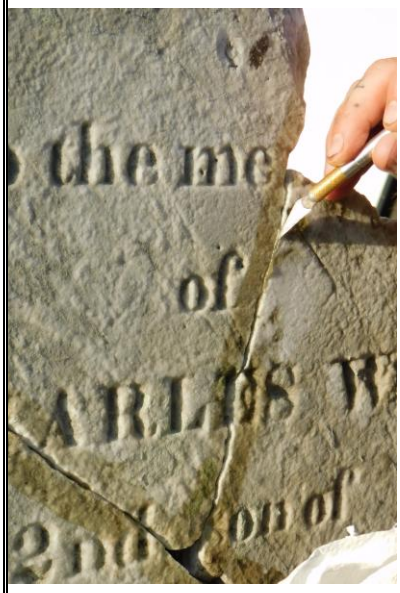
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A82** **NAME*:*** ***CHARLES GILMAN*** **DATE: 1835**

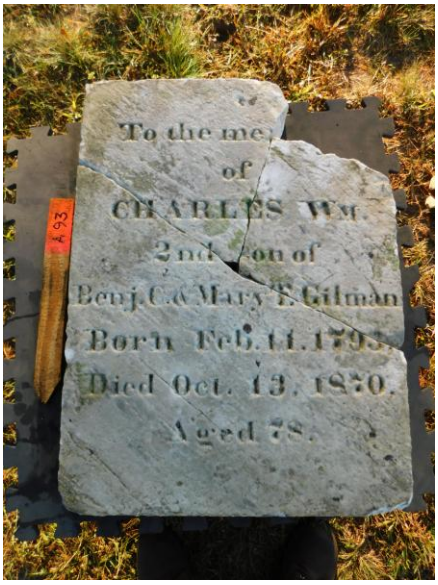
3. EWSC. A82. DT. Cleaning the marble sections with ReVive.

4. EWSC. A82. DT. Cleaned marble sections with ReVive.

5. EWSC. A82. DT. Joining sections with epoxy and resist on marble faces.



6. EWSC. A82. DT. Trimming excess epoxy.



8. EWSC. A82. DT. Filling losses along break-lines.

9. EWSC. A82. DT. Leveling granite base on crushed stone.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A82** **NAME*:*** ***CHARLES GILMAN*** **DATE: 1835**		
 10. Marble prior to setting in mortar bed on granite base.	 11. EWSC. A82. AT. Top view of the marble and granite after treatment.	

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A109** **NAME*:*** ***MARY RINDGE*** **DATE:** **1850**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
■ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections: 2**
Material(s):	■ **Marble**	❑ **Slate**
■ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 24”/30” **W:** 18”/24” **D:** 2”/7”

1. EWSC. 109. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

❑ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**.

❑ **Cracks:**

■ **Breaks:** The marble is broken into at least four sections; three were located on the base.

■ **Losses:** There are losses along the break-line. The bottom, proper left corner is missing.

■ **Hazardous Alignment:** The granite is misaligned.

❑ **Other:** The stone was buried too deeply to read the text.

❑ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A93**	**NAME*:*** ***NICHOLAS GILMAN***	**DATE:** **1854**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ■ **Patch:** Jahn M120
- ■ **Aggregate:** Graded silica sand
- ■ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ■ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

2. EWSC. A93. AT. Overview after treatment of the marble and granite base.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills and Replacements:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** The granite was raised and leveled on a crushed stone bed.

■ **Joint:** The marble was set in a bed of mortar consisting of 1 part Saint Astier Naturally Hydraulic Lime 3.5 and 2.5 parts white silica sands. The end joints were pointed flush.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A93** **NAME*:*** ***NICHOLAS GILMAN*** **DATE: 1854**

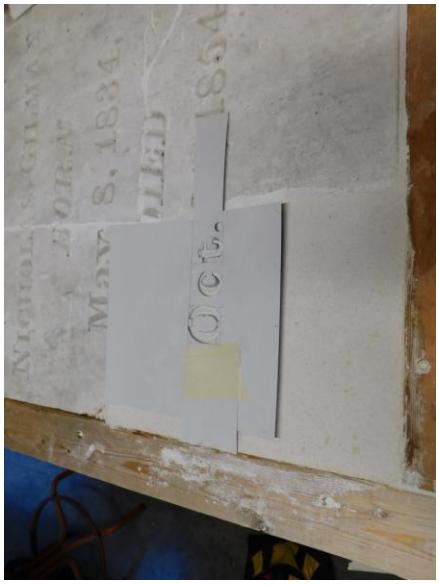
3. EWSC. A93. DT. Cleaning marble sections.

4. EWSC. A93. DT. Adhering marble sections with epoxy.

5. EWSC. A93. DT. Marble mended with losses at break-lines.

6. EWSC. A93. DT. Filling losses with Jahn mortar.

7. EWSC. A93. DT. Detail of filling losses with Jahn mortar.



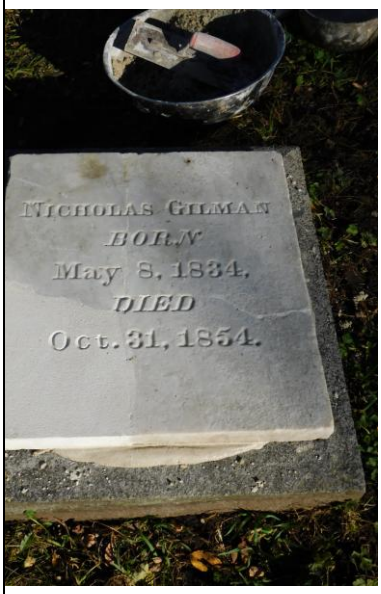
8. EWSC. A93. DT. Replacing large loss with carved text using template.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

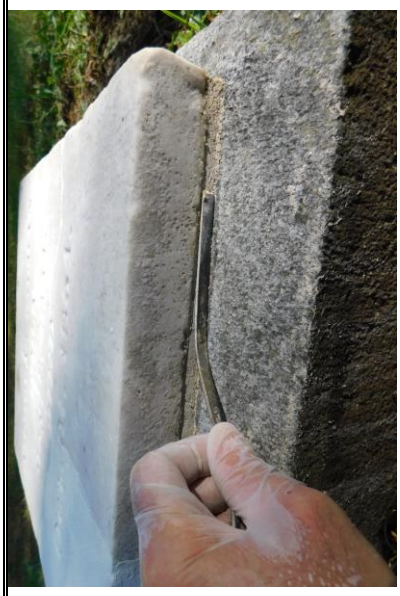
MARKER #: **A93** **NAME*:*** ***NICHOLAS GILMAN*** **DATE: 1854**

9. EWSC. A93. DT. Carving text in replacement element.

10. EWSC. A93. DT. Mortar bed on granite.



11. EWSC. A93. DT. Marble set on mortar bed on top of granite.



12. EWSC. A93. DT. Pointing the edges of the mortar joint.

13. EWSC. A93. DT. Detail, pointing the edges of the mortar joint.

14. EWSC. A93. AT. Top view after treatment of the marble and granite base.

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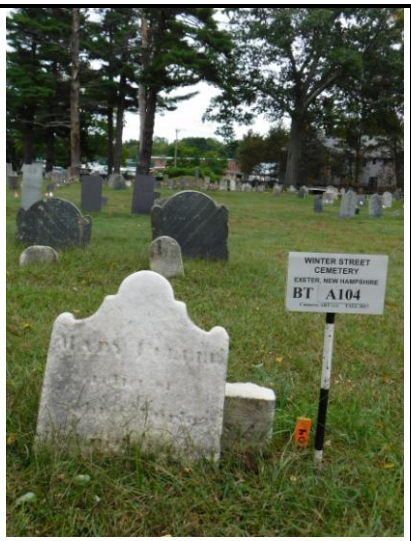
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A104** **NAME*:*** ***MARY FURBER*** **DATE:** **1832**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 24” **W:** 16” **D:** 2”



1. EWSC. A104. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**.

❑ **Cracks:**

■**Breaks:** Stone has a break at mid-stone.

■ **Losses:** There are losses along the break-line.

❑ **Hazardous Alignment:**

■ **Other:** The stone was buried too deeply to read the text.

❑ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A104** **NAME*:*** ***MARY FURBER***		**DATE:** **1832**
MATERIALS	❑ **Patch:** Jahn M120	
■ **Cleaning:** ProSoCo ReVive, Orvus	❑ **Aggregate:** Graded silica sand	
❑ **Stain Removal:**	❑ **Lime:** St. Astier 3.5	
■ **Consolidant:** ProSoCo HCT	❑ **Cement:** White Portland	
■ **Adhesive:** Akemi Akepox 2030	■ **Fills:** Jahn M-120	
❑ **Dowel(s):**	■ **Pigment:** Bayferrox and Solomon Grind	
❑ **Injection:** Jahn M-31	❑ **Foundation:** Crushed Stone	
❑ **Other:**	❑ **Other:**	
PERSONNEL	Francis Miller, Silas Finch	
PROJECT DATES	**Begin:** Summer 2017	**Complete:** Fall 2017

2. EWSC. A76. AT. Overview before treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** Marker reset in earth to read text.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A104** **NAME*:*** ***MARY FURBER*** **DATE: 1832**

3. EWSC. A104. DT. Application of epoxy to lower stone.

4. EWSC. A104. DT. Detail of mating surfaces with epoxy.

5. EWSC. A104. DT. Joining stones with epoxy.

6. EWSC. A104. DT. Stone mended. Note release on marble faces.

7. EWSC. A104. DT. Release on marble faces and epoxy filling crack.

8. EWSC. A104. DT. Cleaning marble with ReVive.

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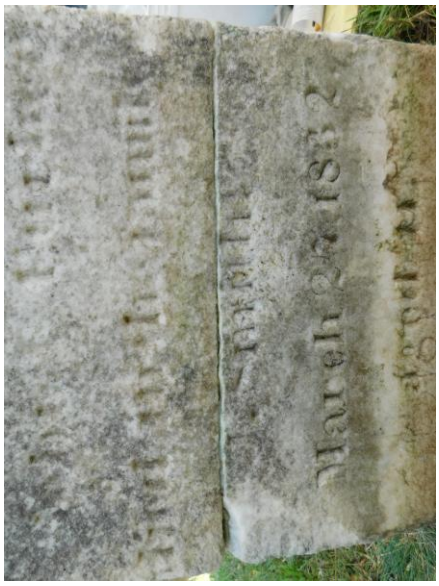
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A104** **NAME*:*** ***MARY FURBER*** **DATE: 1832**

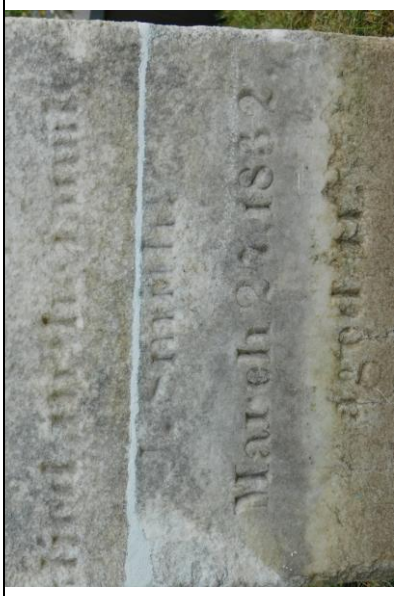
9. EWSC. A104. DT. Cleaning marble with ReVive.



10. EWSC. A104. DT. Break-line before fill.

11. EWSC. A104. DT. Break-line during fills.

12. EWSC. A104. DT. Detail of break-line during fills.



13. EWSC. A104. DT. Break-line after fills.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A108** **NAME*:*** ***MARY COGSWELL*** **DATE:** **1813**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
■ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 24” **W:** 18” **D:** 2”

1. EWSC. A108. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and grain in boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**.

❑ **Cracks:**

■**Breaks:** Stone has a break at mid-stone.

■ **Losses:** There are losses along the break-line.

■ **Hazardous Alignment:**

■ **Other:** The stone had three levels of foundations below grade. The lowest level was stone, the mid-level was brick and the upper level was concrete and rubble.

■ **Previous Repairs:** There is failed cement along break-line from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #:	**A108**	**NAME*:*** ***MARY COGSWELL***	**DATE:** **1813**

MATERIALS

■ **Cleaning:** ProSoCo ReVive, Orvus	❑ **Patch:** Jahn M120
❑ **Stain Removal:**	❑ **Aggregate:** Graded silica sand
■ **Consolidant:** ProSoCo HCT	❑ **Lime:** St. Astier 3.5
■ **Adhesive:** Akemi Akepox 2030	❑ **Cement:** White Portland
❑ **Dowel(s):**	■ **Fills:** Jahn M-120
❑ **Injection:** Jahn M-31	■ **Pigment:** Bayferrox and Solomon Grind
❑ **Other:**	■ **Foundation:** Crushed Stone
	❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

2. EWSC. A108. AT. Overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting: The** various levels of foundation were reset and the marble brought to grade in a bed of crushed stone. Crushed stone was used to enhance drainage for the horizontal marble slab.

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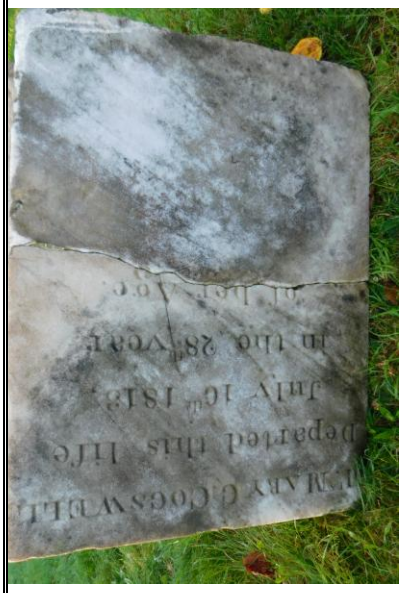
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A108** **NAME*:*** ***MARY COGSWELL*** **DATE: 1813**

3. EWSC. A108. DT. Overview of area after removal and removal of foundation materials.

4. EWSC. A108. DT. View of below grade foundation materials. No base found.

5. EWSC. A108. DT. Cleaning marble with ReVive.



6. EWSC. A108. DT. View of adhered stone.

7. EWSC. A108. DT. View of failed bonding cement on break-line.

8. EWSC. A108. DT. Removal of failed bonding cement with hammer and chisle and Dremel.

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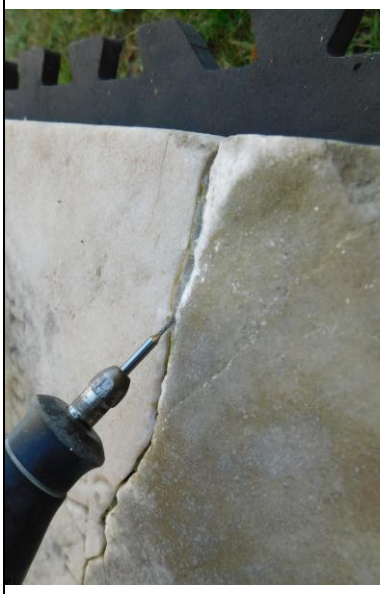
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A108** **NAME*:*** ***MARY COGSWELL*** **DATE: 1813**

9. EWSC. A108. DT. Bonding stone with epoxy.

10. EWSC. A108. DT. Detail of excess epoxy.



11. EWSC. A108. DT. Dremel removal of epoxy with set back for fill.

12. EWSC. A108. DT. Mortar fill along break-line.

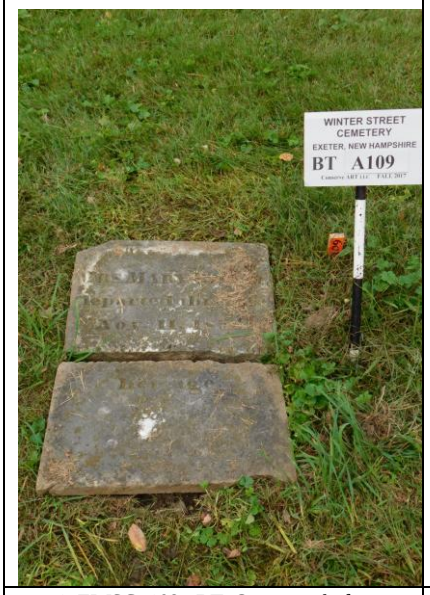
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A109** **NAME*:*** ***MARY RINDGE*** **DATE:** **1850**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
■ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections: 2**
Material(s):	■ **Marble**	❑ **Slate**
■ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 24”/30” **W:** 18”/24” **D:** 2”/7”



1. EWSC. 109. BT. Overview before treatment.

2. EWSC. A109. DT. Granite base found below grade.

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

❑ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

❑ **Cracks:**

■ **Breaks:** The marble has a single break.

■ **Losses:** There are losses along the break-line.

■ **Hazardous Alignment:** The marble was partially buried

■ **Other:** During removal of the marble it was found that the flush marker has a granite base.

❑ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A109** **NAME*:*** ***MARY RINDGE***	**DATE:** **1850**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ■ **Patch:** Jahn M120
- ■ **Aggregate:** Graded silica sand
- ■ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ■ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

3. EWSC. A109. AT. Overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills and Replacements:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** The granite was raised and leveled on a crushed stone bed.

■ **Joint:** The marble was set in a bed of mortar consisting of 1 part Saint Astier Naturally Hydraulic Lime 3.5 and 2.5 parts white silica sands. The end joints were pointed flush.

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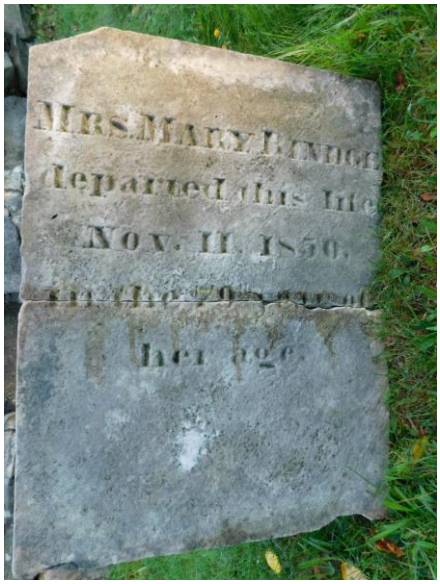
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A109** **NAME*:*** ***MARY RINDGE*** **DATE: 1850**



4. EWSC. A109. DT. Two marble sections bonded with epoxy.

5. EWSC. A109. DT. Cleaning the marble with ReVive.

6. EWSC. A109. DT. Removal of base for crushed stone bed.

7. EWSC. A109. DT. Setting granite base on crush stone.

8. EWSC. A109. DT. Packing earth around the granite.

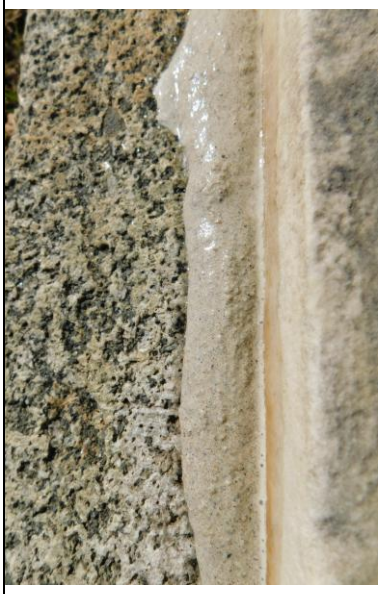
9. EWSC. A109. DT. Replanting sod along granite base.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A109** **NAME*:*** ***MARY RINDGE*** **DATE: 1850**

10. EWSC. A109. DT. Overview of granite and marble ready for setting in mortar.

11. EWSC. A109. DT. Overview of granite ready for setting in mortar.



12. EWSC. A109. DT. Detail of mortar extruding from below marble.

13. EWSC. A109. AT. Top view of granite and marble.

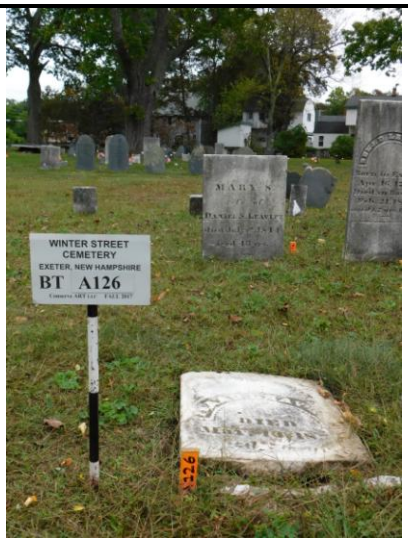
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A126** **NAME*:*** ***ISAAC LEAVITT*** **DATE:** **1834**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 22” **W:** 18” **D:** 1 ½”



1. EWSC. A126. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and in grain boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

❑ **Cracks:**

■**Breaks:** Stone has a break at mid-stone.

■ **Losses:** There are losses along the break-line.

❑ **Hazardous Alignment:**

■ **Other:** The stone was buried too deeply to read the text.

❑ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #:	**A126**	**NAME*:*** ***ISAAC LEAVITT***	**DATE:** **1834**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ❑ **Patch:** Jahn M120
- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

2. EWSC. A76. AT. Overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** Marker reset with earth.

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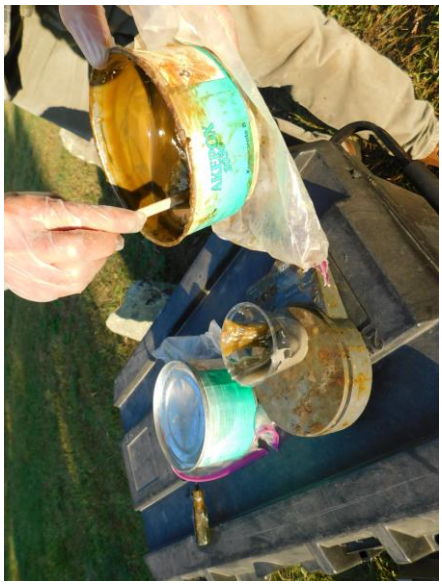
WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A126** **NAME*:*** ***ISAAC LEAVITT*** **DATE: 1834**



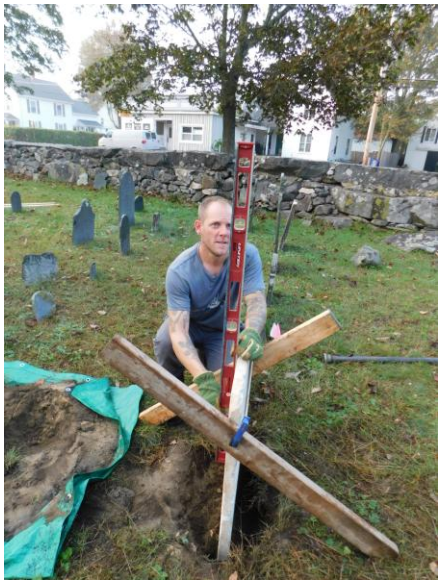
3. EWSC. A126. DT. Mixing epoxy for repair.

4. EWSC. A126. DT. Application of epoxy for repair.

5. EWSC. A126. DT. .Epoxy applied to lower stone.

6. EWSC. A126. DT. Joining broken sections

7. EWSC. A126. DT. Sections joined with epoxy during cure.



8. EWSC. A126. DT. Setting marker plumb.

WINTER STREET CEMETERY RESTORATION
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MARKER #: **A126** **NAME*:*** ***ISAAC LEAVITT*** **DATE: 1834**

9. EWSC. A126. DT. Backfilling with earth.

10. EWSC. A126. DT. Tamping earth around marble.

11. EWSC. A126. DT. Tamping earth around marble.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

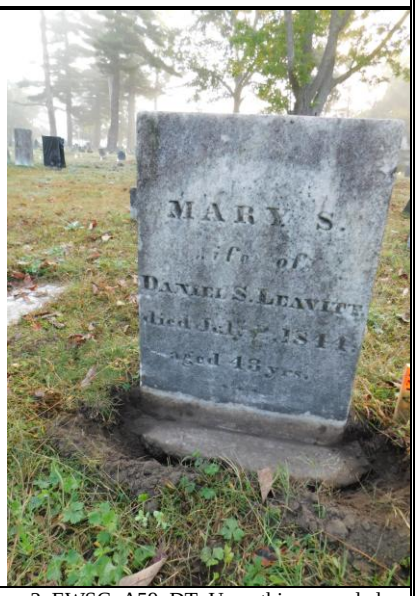
MARKER #: **A136** **NAME*:*** ***MARY LEAVITT*** **DATE:** **1844**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑**Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	❑ **Weathered**
■ **Traces**	■ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 36” **W:** 20” **D:** 2”

1. EWSC. A59. BT. Front overview before treatment.



2. EWSC. A59. DT. Unearthing revealed concrete poured around the stone.

MARKER CONDITION

■ **Surface Growth/Soiling:** There are soil stains on portions buried below grade.

❑**Stains:**

❑**Friable Stone:** Fine grain marble is lightly sugary to the touch, portions have lost substaintial cohesion.

❑ **Spalls:**

❑ **Cracks:**

■**Breaks:** Stone has a central break at grade..

❑**Losses:**

❑ **Hazardous Alignment:**

■ **Previous Repairs**: The marker has repairs to previous rates.

■ **Other:** Unearthing stone for repairs uncovered below grade concrete. Given the fragility of the stone and unknown loss associated with the concrete, the marker was reset and no further work done. The marker can be treated in a future campaign where the treatment duration permits full HCT & OH-100 consolidation.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A145 FS** **NAME*:*** ***ANNA BOARDMAN*** **DATE:** **1847**

DESCRIPTION

Type:	❑ **Headstone**	■ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	❑ **Marble**	■ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	■ **Good**	❑ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 12” **W:** 10” **D:** ¾”

1. EWSC. A145 FS. BT. Front overview before treatment.

2. EWSC. A145 FS. BT. Top view before treatment.

MARKER CONDITION

■ **Surface Growth/Soiling:** There are soil stains on portions buried below grade.

❑**Stains:**

❑**Friable Stone:**

❑ **Spalls:**

■ **Cracks:** There are hairline cracks in the slate along stone anomalies.

■**Breaks:** Stone has a central break grade.

❑**Losses:** .

❑ **Hazardous Alignment:**

❑ **Other**:

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A145 FS** **NAME*:*** ***ANNA BOARDMAN***	**DATE:** **1847**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ❑ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):** 316 stainless Steel
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**

❑**Patch:**

- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ❑ **Fills:** Jahn M-120
- ❑ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Shims:** Sheet Lead

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

3. EWSC. A145 FS. AT. Front overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

❑**Consolidation:**

❑ **Crack Injection:**

■ **Repairs:** Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel. The trim was flush and left minor fill with additional epoxy.

❑ **Fills/patches:**

■ **Resetting:** Reset in the earth in found location behind headstone.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A145 FS** **NAME*:*** ***ANNA BOARDMAN*** **DATE: 1847**

4. EWSC. A145 FS. DT. Cleaning slate with ReVive.

5. EWSC. A145 FS. DT. Cleaning slate with ReVive, detail.

6. EWSC. A145 FS. DT. Application of Orvus resist prior to epoxy mend.

7. EWSC. A145 FS. DT. Sections joined with epoxy.

8. EWSC. A145 FS. DT. Detail of excess epoxy and resist.

9. EWSC. A145 FS. DT. Removal of excess epoxy prior to full gel.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **A145** **NAME*:*** ***ANNA BOARDMAN*** **DATE:** **1847**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	❑ **Marble**	■ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	■ **Good**	❑ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 30” **W:** 20” **D:** 2”

1. EWSC. A145 FS. BT. Front overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** There are soil stains on portions buried below grade.

❑**Stains:**

❑**Friable Stone:**

❑ **Spalls:**

■ **Cracks:** There are hairline cracks in the slate along stone anomalies.

■**Breaks:** Stone is broken into five sections. Two of the breaks are still well adhered with epoxy.

■**Losses:** There are losses along the break-lines.

■ **Hazardous Alignment:** The marker was misaligned and leaning

■ **Other**: The stones joined by a previous epoxy repair are misaligned, not allowing to adhere the currently detached sections in appropriate alignment with carved text and detail. The existing epoxy fragments are being separated with organic solvents before proceeding with additional treatment.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **B71** **NAME*:*** ***SAMUEL LEAVITT*** **DATE:** **1855**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	■ **Marble**	❑ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	❑ **Good**	■ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: ***H:*** 22” **W:** 18” **D:** 1 ½”

1. EWSC. B71. BT. Overview before treatment.

Blank

MARKER CONDITION

■ **Surface Growth/Soiling:** Minor biological growths over the surfaces and grain in boundaries.

■ **Stains:** There are soil stains on portions buried below grade.

■ **Friable Stone:** Fine grain marble is lightly sugary to the touch, otherwise stone is sound.

❑ **Spalls:**

❑ **Cracks:**

■**Breaks:** Stone has a break at mid-stone.

■ **Losses:** There are losses along the break-line.

❑ **Hazardous Alignment:**

■ **Other:** The stone was buried too deeply to read the text.

❑ **Previous Repairs:** There is failed epoxy along break-line at grade from previous repair.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #:	**B71**	**NAME*:*** ***SAMUEL LEAVITT***	**DATE:** **1855**

MATERIALS

- ■ **Cleaning:** ProSoCo ReVive, Orvus
- ❑ **Stain Removal:**
- ■ **Consolidant:** ProSoCo HCT
- ■ **Adhesive:** Akemi Akepox 2030
- ❑ **Dowel(s):**
- ❑ **Injection:** Jahn M-31
- ❑ **Other:**
- ❑ **Patch:** Jahn M120
- ❑ **Aggregate:** Graded silica sand
- ❑ **Lime:** St. Astier 3.5
- ❑ **Cement:** White Portland
- ■ **Fills:** Jahn M-120
- ■ **Pigment:** Bayferrox and Solomon Grind
- ❑ **Foundation:** Crushed Stone
- ❑ **Other:**

PERSONNEL Francis Miller, Silas Finch

PROJECT DATES **Begin:** Summer 2017 **Complete:** Fall 2017

2. EWSC. B71. AT. Overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

■**Consolidation:** Marble was treated with ProSoCo HCT (Hydroxylating Conversion Treatment) a water borne treatment that provides bonds between weakened calcium carbonate stone grains. The material was applied in three cycles following the manufacturer's recommended procedures.

❑ **Crack Injection:**

■ **Repairs:** Failed adhesive removed by hammer and chisel and by Dremel. Stone fragments were mended using Akemi Akepox 2030 two part epoxy. Epoxy was allowed to cure to taffy like consistency and excess was trimmed back using a stainless steel scalpel for mortar fills.

■ **Fills:** Losses were filled flush using Jahn M-120, lightly tinted with pigments, covered with plastic and misted for a minimum of three days. All original, decorative surfaces kept clean of over-smear.

■ **Resetting:** Marker reset with earth.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **B71** **NAME*:*** ***SAMUEL LEAVITT*** **DATE: 1855**

3. EWSC. B71. DT. Sandstone base with broken marble in mortise.

4. EWSC. B71. DT. Removing marble in mortise.

5. EWSC. B71. DT. Removing marble in mortise with diamond wheel.

6. EWSC. B71. DT. Removing marble fragments with hammer and chisel.

7. EWSC. B71. DT. Mortise cleaned of debris.

8. EWSC. B71. DT. Mortise with NHL 3.5 for setting marble.

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WINTER STREET CEMETERY RESTORATION
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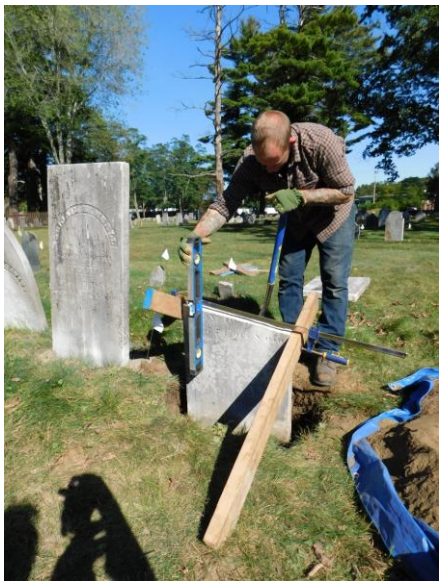
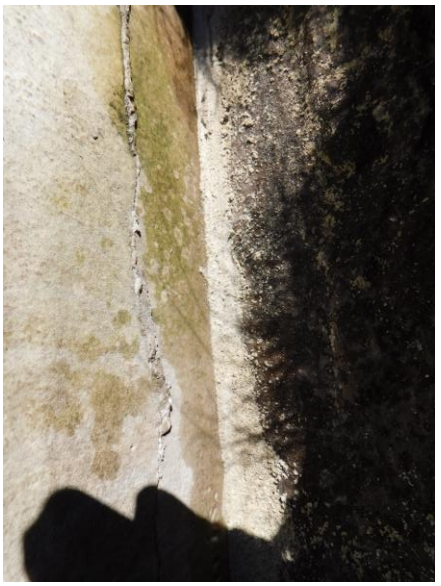
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **B71** **NAME*:*** ***SAMUEL LEAVITT*** **DATE: 1855**

9. EWSC. B71. DT. Setting marble in mortise with NHL 3.5.



10. EWSC. B71. DT. Plumbing lower section of marble in base.



11. EWSC. B71. DT. Pointing mortise joint with NHL 3.5.

12. EWSC. B71. DT. Removal of failed adhesive on break-line with Dremel.

13. EWSC. B71. DT. Joining two sections with epoxy.

14. EWSC. B71. DT. Application of Jahn mortar in break-line mend.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **F80** **NAME*:*** ***TOBIAS CUTLER*** **DATE:** **1834**

DESCRIPTION

Type:	■ **Headstone**	❑ **Footstone**
❑ **Flush**	❑ **Crypt**	❑ **Table**
❑ **Obelisk**	❑ **Monument**	**# sections:**
Material(s):	❑ **Marble**	■ **Slate**
❑ **Granite**	❑ **Sandstone**	❑ **Rubble**
❑ **Limestone**	❑ **Schist**	❑ **Concrete**
Carving	■ **Good**	❑ **Weathered**
❑ **Traces**	❑ **Lost**	❑ **Buried**
Hazard (1-5):	**1:high - 5:low**	**NA**
Priority (1-5):	**1:high - 5:low**	**NA**

Dimensions: *H:* 48” **W:** 20” **D:** 1 ½”

1. EWSC. F80. BT. Front overview before treatment.

2. EWSC. F80. BT. Back overview before treatment.

MARKER CONDITION

■ **Surface Growth/Soiling:** There are small organic growths on the purple marble.

❑**Stains:**

❑**Friable Stone:**

❑ **Spalls:**

❑ **Cracks:**

❑**Breaks:**

❑**Losses:**

❑ **Hazardous Alignment:**

■ **Other**: The marker had thick tar poured over the top that defaced the front and back of the slate.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **F80**	**NAME*:*** ***TOBIAS CUTLER***	**DATE:** **1834**

MATERIALS	**❑Patch:**
■ **Cleaning:** ProSoCo ReVive, Orvus	❑ **Aggregate:** Graded silica sand
❑ **Stain Removal:**	❑ **Lime:** St. Astier 3.5
❑ **Consolidant:** ProSoCo HCT	❑ **Cement:** White Portland
❑ **Adhesive:** Akemi Akepox 2030	❑ **Fills:** Jahn M-120
❑ **Dowel(s):** 316 stainless Steel	❑ **Pigment:** Bayferrox and Solomon Grind
❑ **Injection:** Jahn M-31	❑ **Foundation:** Crushed Stone
■ **Other:** Klean Strip Strip X Stripper	❑ **Shims:** Sheet Lead
PERSONNEL Francis Miller, Silas Finch	
PROJECT DATES **Begin:** Summer 2017	**Complete:** Fall 2017

3. EWSC. F80. AT. Front overview after treatment.

MARKER TREATMENTS

■ **General Soiling & Biological Growth Removal:** Surfaces washed with ProSoCo ReVive biological and atmospheric stain remover followed by water rinse.

❑**Consolidation:**

❑ **Crack Injection:**

❑ **Repairs:**

❑ **Fills/patches:**

❑ **Resetting:**

■**Other:** Tar removal tests were done on the back, lower portion of the slate. The first test was with Smart Strip Pro, an environmentally safe stripper. The stripper was applied by natural fiber brush and allowed to dwell for 2 hours. The stripper was rinsed with a pressure washer set at 1000 psi, using a 40˚ fan tip at a working distance of 16-20". The stripper dissolved a small amount of the tar but had little effect over all.

The stripper softened the thick tar, which was removed using a wood popsicle stick. It was discovered that all of the thick tar softened during a warm day to a consistency that could allowed for removal of the bulk of the material with wood scrappers. Extreme care was taken not to abrade the stone; only the outer, thick accumulations were removed; the process left thin tar on the surfaces.

A second test was done with methylene chloride based Klean Strip Strip X Stripper. The stripper was also applied by natural fiber brush and cover with a dwell time of 1 hour. Following the same rinsing procedures the tar was substantially removed. The process was repeated 4 times, applied in more and more specific locations, to remove all the tar residues.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **F80** **NAME*:*** ***TOBIAS CUTLER*** **DATE: 1834**

3

4. EWSC. F80. DT. First stripping test with Smart Strip Pro.

5. EWSC. F80. DT. First stripping test with Smart Strip Pro, detail.

6. EWSC. F80. DT. First stripping test covered with plastic.

7. EWSC. F80. DT. View of first stripping test. Thick accumulations were removed with popsicle sticks.

8. EWSC. F80. DT. Detail of scrapping tar on back removal test.

9. EWSC. F80. DT. Second stripping test on back showing container.

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WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

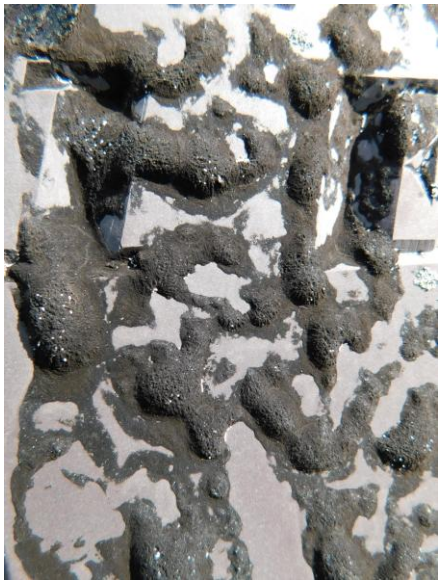
MARKER #: **F80** **NAME*:*** ***TOBIAS CUTLER*** **DATE: 1834**

10. EWSC. F80. DT. Second stripping test on back before rinsing, detail.

11. EWSC. F80. DT. Second stripping test on back before rinsing.

12. EWSC. F80. DT. Rinsing stripper with wide fan spray.

13. EWSC. F80. DT. Detail of upper front slate before scrapping tar with wood popsicle stick.



14. EWSC. F80. DT. Detail before scrapping tar with wood popsicle stick.

15. EWSC. F80. DT. Detail of scrapping tar with wood popsicle stick.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **F80** **NAME*:*** ***TOBIAS CUTLER*** **DATE: 1834**

16. EWSC. F80. DT. Holding tar scappings from front of slate.

17. EWSC. F80. DT. Front detail after scrapping with wood popsicle sticks.

18. EWSC. F80. DT. Overview of front after scrapping with wood popsicle sticks.

19. EWSC. F80. DT. Application of stripper after scrapping,

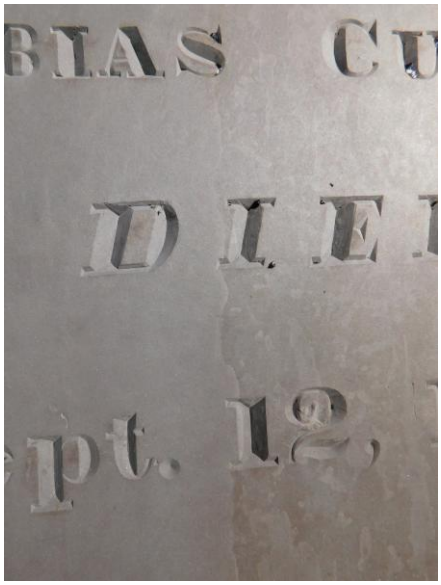
20. EWSC. F80. DT. Application of stripper after scrapping, detail.

21. EWSC. F80. DT. Rinsing stone with water using a wide fan spray.

WINTER STREET CEMETERY RESTORATION
MARKER TREATMENT REPORTS
TOWN OF EXETER, NEW HAMPSHIRE 2017

MARKER #: **F80**	**NAME*:*** ***TOBIAS CUTLER***	**DATE: 1834**

22. EWSC. F80. DT. Overview after three applications.



23. EWSC. F80. DT. Small tar accumulations in carving detail.

24. EWSC. F80. DT. Repeat application of stripper to remove small accumulations in carving detail.

25. EWSC. F80. AT. Front detail following four stripper applications.

26. EWSC. F80. AT. Back overview after treatment.

27. EWSC. F80. AT. Top overview after treatment.

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