

Hanover Cemeteries Preservation Plan

*Hanover Center Cemetery – Union Assinippi Cemetery – West Hanover Cemetery
Hanover, Massachusetts*



prepared for the

Town of Hanover Historical Commission

by

*Martha Lyon Landscape Architecture, LLC
Fannin-Lehner Preservation Consultants
CME Associates, Inc.*

October 2010

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Carol Franzosa
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Charlie Minott

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INTRODUCTION

The Town of Hanover, Massachusetts maintains three historic cemeteries. Hanover Center Cemetery, the Town's oldest, was established in 1727 on 5½ acres of land in the heart of the Town, and holds the graves of Hanover's earliest residents. Union Cemetery, also referred to as Union Assinippi Cemetery, was founded in 1792 by a group of individuals living on the border between Hanover and the South (Second) Parish of Scituate. West Hanover Cemetery, also known as the Darling Cemetery, lies near the western edge of the Town on 1/10 acre. Beginning in the 1820s, it served as the burial ground for members of the Ellis, Darling and Winslow families, all residents of West Hanover. Together, the three cemeteries tell the story of Hanover, from its earliest days to the present.



A view across the older sections of Hanover Center Cemetery. The landscape contains many styles and materials of grave markers, as well as a diversity of plot details.

Throughout its 283-year history, the Town has done a careful job of maintaining the three landscapes. Town crews have regularly mown lawns, re-surfaced and patched roadways and paths, and removed dead trees. From time to time, interested individuals have inventoried some of the graves and have compiled historical narratives about the cemeteries. The Hanover Historical Society has conducted tours of Center Cemetery, highlighting the many important Town residents interred within its grounds. And in 2007, the Town completed a Historical Preservation Plan, which identified the three cemeteries as resources meriting further study and assessment.

The *Hanover Cemeteries Preservation Plan* is an outgrowth of the 2007 Town-wide plan. The Hanover Historical Commission, following up on the 2007 plan's recommendations, realized that each cemetery had preservation needs, but the needs stood undocumented and had not been placed in priority order. Furthermore, while the Town had been maintaining the cemeteries, the Commission knew that a greater investment could be made in preserving the trees, walls, tombs, and gravestones. In 2008, the Commission submitted an application to Hanover's Community Preservation Committee. The application was successful, and the result is the foregoing plan.



One of Hanover Center Cemetery's most beloved grave markers stands in Section A near the south east corner, and features the figure of a shaggy dog.

Project Goal

The Town of Hanover established as its goal for the plan, completion of a comprehensive mapping and assessment of headstones, tombs, fencing, stone walls, and landscape in Hanover Center, Union Assinippi, and West Hanover Cemeteries. Along with the mapping and assessment, the goal aimed to develop a plan to repair, restore and preserve these features, with the aim of forestalling and preventing their loss and preserving them for future generations.

Process

Work on the plan spanned approximately nine months. The project team, lead by Martha Lyon Landscape Architecture, LLC, included stone conservators (Fannin-Lehner Preservation Consultants) and a structural engineer (CME Associates, Inc.) The team adhered to the following process for completing the project:



The interior of Union Assinippi Cemetery contains many mature deciduous and evergreen trees, casting shadow across its intimate landscape.

- *Historical Research.* The team Gathered and reviewed written and visual materials pertaining to the history of the three cemeteries, including maps, photos, and written and oral histories.
- *Mapping & Inventory.* The team prepared accurately-scaled maps of each cemetery, established boundaries and located all significant landscape features, including walls, fences, gates, roads, paths, large trees, major monuments and memorials.
- *Periods of Significance.* Using the historical research and inventory, the team established a "Period of Significance" for each cemetery.

- *Assessment.* The team analyzed and evaluated the condition of all existing natural and functional features in the cemetery landscapes and made preliminary recommendations for preservation treatment.
- *Recommendations.* The team prepared a list of specific treatment recommendations for each landscape feature, based on the US Secretary of the Interior’s *Standards for the Treatment of Cultural Landscapes*, and developed an approximate cost for the recommendations for the purpose of setting fundraising goals. The Secretary of the Interior’s *Standards* identify the following:
 - Features for *preservation*, where existing form, integrity and materials of each cemetery should be sustained;
 - Features for *rehabilitation*, where features in each cemetery should be repaired or altered to make their use compatible with the cemetery’s historical value;
 - Areas for *restoration*, where cemetery features should be returned to their original form; and
 - Areas for *reconstruction*, where cemetery features no longer extant should be recreated.
- *Management Plan.* The team prepared a set of guidelines for maintaining the cemetery landscapes over time, including recommendations for maintaining existing plantings, introducing new plantings, inspecting and stabilizing structures (walls, copings, tombs), inspecting and stabilizing metal fencing; and performing basic stone conservation tasks. The management plan included a schedule for maintenance with specific tasks to be completed on a month-by-month basis.



West Hanover Cemetery, located on 1/10 acre, is tucked away in the woods and surrounded by a two-rail wooden fence. It contains only 18 grave markers.

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(dated 1852). Between 1792 and 1808, the Town purchased a pall and hearse, built a hearse house, and fenced the limits of the burying ground. In 1844, the Town passed a voted to “raise a committee to cause to be built a tomb...,” and in 1845, the Town receiving tomb was erected. Although record of the construction of the Main Street wall has not been found, it was likely built in conjunction with the tombs, between 1790 and 1852.



Center Cemetery as seen from Main Street in 1910. A picket-style fence rimmed its outside edge, and deciduous trees provided shade. Source: Dwelley & Simmons, *The History of the Town of Hanover, Massachusetts*.

During the second half of the 1800s, Hanover devoted significant resources to Center Cemetery’s beautification. Between 1850 and 1900, crews planted ornamental and other trees, painted the fences and gates, repaired and painted the hearse, re-pointed the wall and made general improvements on a yearly basis. In 1888, the Town was maintaining five cemetery trust funds, established by the Hatch, Curtis, Cutler, Turcot and Ripley families. By the end of the 1800s, the look of the cemetery was the source of tremendous pride for Hanover. In their *History of the Town of Hanover* (published in 1910), Dwelley and Simmons observed in that

“now there are few country cemeteries that can surpass our own for beauty of situation or that show greater attention or more modest, beautiful grounds.”

Concern about lack of adequate burial space began to surface in the late 1870s. In 1881, the Town purchased three acres on the north side of the original burial ground and began improving it almost immediately. In 1889, the Town engaged the services of Joseph H. Curtis, a landscape engineer from Boston, to develop a vision for the additional cemetery land. He prepared a detailed letter that appeared in the 1889 Town Report and in it observed:

“The tendency in the treatment of burial-grounds is steadily towards greater simplicity and naturalness, even in the neighborhood of large cities where land is scarce and dear, and as large a portion of the surface as possible must be made available for burial. The rectangular system in all new grounds had long been done away with, and the enclosure of the lots by iron fences, stone curbing, or by raised embankments of earth, has in its turn given place in the best examples of modern grounds to the absence of visible boundaries of individual lots. In a country district this treatment is especially desirable and fitting with all its surroundings. The less the surface has to be disturbed by cuts and fills for avenues, paths and lots, the more economical is the construction and maintenance of the grounds, and the more satisfactory the result.”

Curtis advocated for making a “good liberal addition” of land, and laying it out according to this aesthetic. The Town heeded Curtis’s advice by purchasing 16.4 acres (in two parcels from Joshua Studley and Mrs. Andrew T. Damon) and accepting another .3 acres as a gift in 1891, bringing the cemetery acreage to approximately 28.6.

Work in Center Cemetery during the first half of the 20th century focused on developing the new additions of land. Between 1910 and 1912, crews erected a new receiving tomb measuring 12 feet by 15 feet and laid out and graveled roads. In 1930, the Town installed water in the cemetery and by 1940 had erected six water fountains. In the 1940s, the Town made an effort to upgrade the appearance of the old part of the cemetery by filling sunken graves, cutting tall grass, and mowing shrubbery. Crews also straightened and aligned the gravestones and set them in cement bases to make them permanent.

In the last half of the 1900s, Hanover added more land to the northern side of the cemetery, and planted numerous maple trees. The Town also introduced several modern elements to the historic cemetery landscape. In the 1950s, a new wire fence was set along Silver Street and the cemetery commissioners expressed an interest in enclosing the entire property with wire. In the 1960s, the Town began “tarring” or “blacktopping” the roadways, and by the mid 1970s, the surfaces of all of the roadways, in both the old and new sections, held bituminous asphalt. In 1966, the Town built the cement block cemetery office to the north and west of the old section, and in 1978, crews completed an addition to the building. Beginning in 2002, the Town began replacing fencing along Main and Silver Streets, and in 2004, a new white vinyl picket-style fence rimmed both edges.

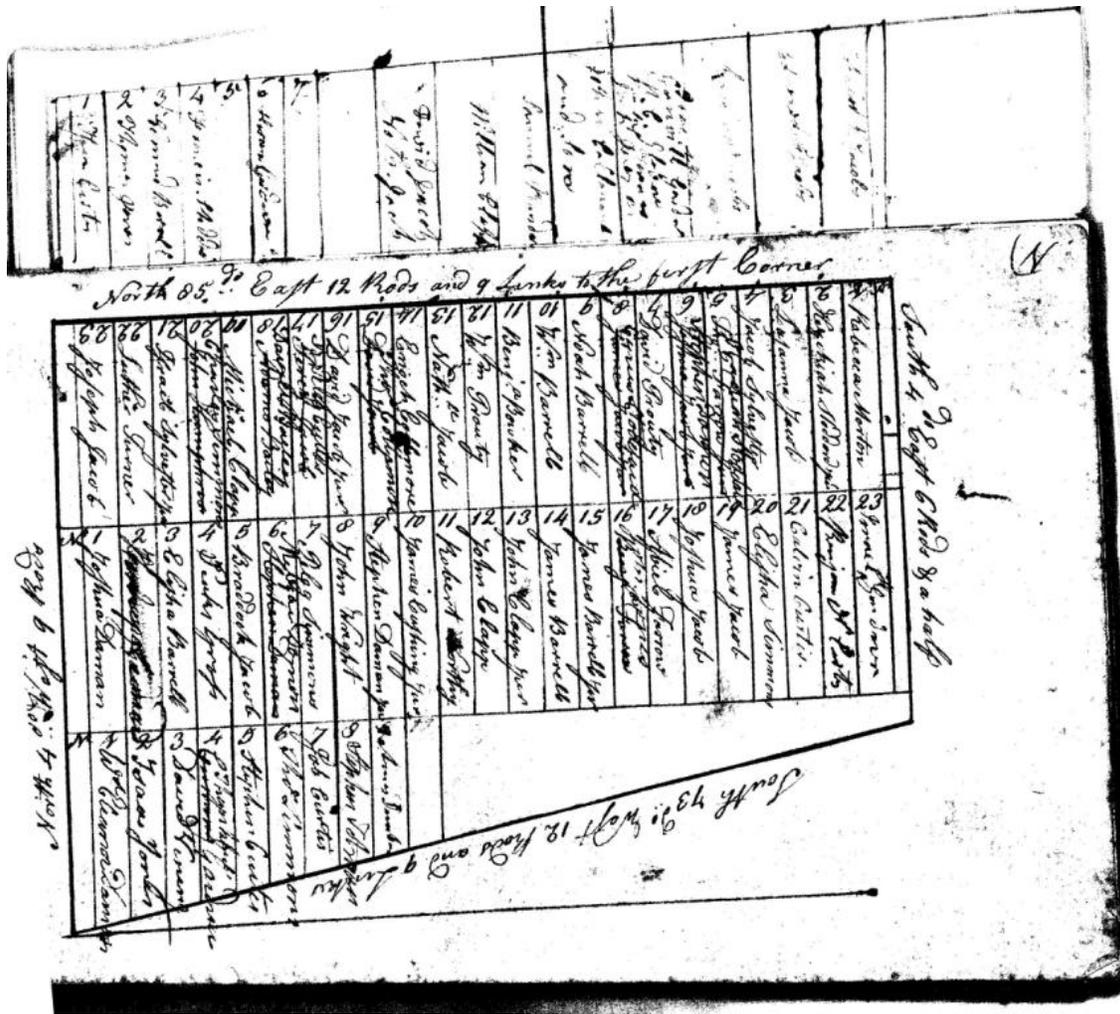
Union Cemetery

A group of individuals living on the border between Hanover and the South Parish of Scituate established Union Cemetery in 1792. This border, defined by Third Herring Brook, was site of the Jacobs Mills, established as early as 1730. Joshua Jacobs and his brother, Dr. Joseph Jacobs migrated to the area from the Greenbush section of Scituate, built a dam across the brook and created a pond, and constructed saw and grist mills. The area became known as Assinippi (Algonquian/Metakessett name for “rocky water”), and its main thoroughfare, Washington Street (Route 53) was the oldest and most frequently traveled road in Plymouth County between Boston and Plymouth until the early 19th century.



Washington Street, Assinippi ca. late 1800s. The route is one of the oldest in Plymouth County. Photo courtesy of the Hanover Historical Society.

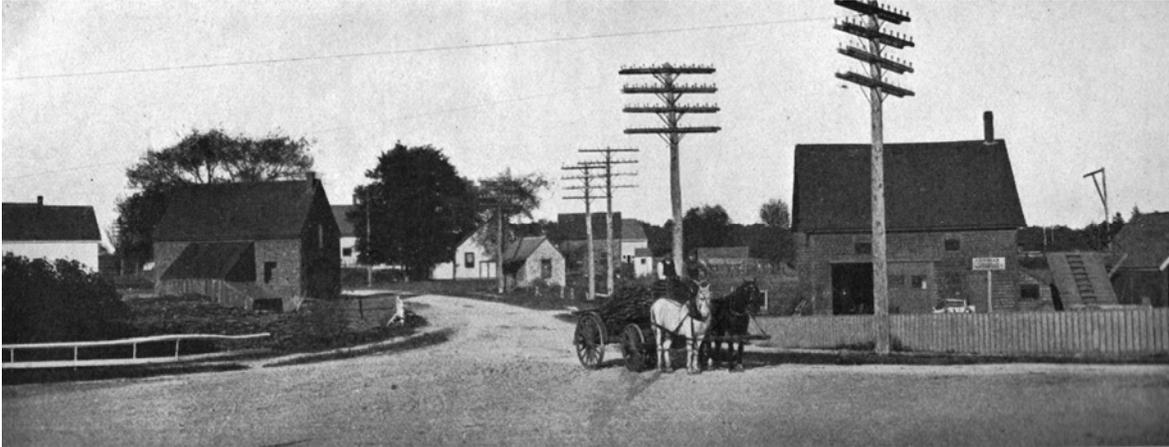
In 1792, 37 individuals, 34 from Scituate and three from Hanover, purchased land from David Jacobs for a total of nine pounds. The deed specified that a portion of the land was to be subdivided into 46 lots, and the remainder to be kept intact. The lots were arranged in two rows beginning at the northeast corner and extending westward. Each lot measured “thirteen links in width east and west and three rods in length being nearly north and south.” Rebecca Morton’s lot earned the number one and the other 36 “proprietors” claimed additional lots. The first interment likely took place after 1792.



The original Proprietors' map of the cemetery at Assinippi, established in 1792. Thirty-seven individuals initially purchased lots. Courtesy of the Town of Hanover.

The proprietors managed the cemetery through the 1840s, and during that time made several modifications. In 1807, they granted a covenant to Paul Curtis and John Clapp to construct a tomb measuring 18 feet long and 8 feet wide, with a door facing south. Occupying lot numbers 12 and 13, the tomb's east side was tended by Curtis and the west by Clapp.

had married Nathan Studley (d. 1850), a member of another West Hanover family, and he is interred beside her. Between 1829 and 1868 several members of the Ellis family died, and were interred in the first three to four rows of the cemetery.



West Hanover c. 1910, looking north on Pleasant Street. The West Hanover Darling Cemetery stood to the north and west of here, along the edge of Studley Mill Brook. Source: Dwelley & Simmons, The History of the Town of Hanover, Massachusetts.

Several members of the Darling family are interred in rows behind (to the north) of the Ellis family graves. The family was headed by Benjamin Darling (1755-1835) who may have been the father of David Darling (1775-1878). The younger Darling married Lydia Darling (1797-1887) and built a house on Circuit Street. They had a daughter, Sally, who married David Davis and the couple eventually occupied the Darling house on Circuit Street. Three generations of the Darling family are interred in the cemetery.

The last known interment at the West Hanover Cemetery took place in 1891, that of William Davis (1855-1891). By the 1910s, the Town of Hanover had assumed care of the cemetery, reserving \$25.00 for yearly upkeep. Some type of fence surrounded the cemetery as early as 1910, as Dwelley & Simmons noted the existence of a fence structure in their History of the Town of Hanover. In 1935, the Town replaced the fence and removed several old stumps. By 1960, a trust fund had been established by the Darling family for upkeep of the cemetery, and Town crews continue to maintain its landscape to this day.

Periods of Significance

Based on the history of each cemetery's landscape as described above, the following "Periods of Significance" emerge. These periods represent spans of time during which the most significant features were added and/or the most historically prominent activities occurred. Efforts to preserve each cemetery should honor the period, placing high priority on conserving the historic features, and removing and/or altering features that fall outside this period.

- *Hanover Center Cemetery (original 8.9-acre section only) – 1727 – 1850.* This 123-year period begins with the establishment of the 5 ½-acre burial ground and includes the two additions of land, bringing the total area to 8.9 acres. During this period, the Town built a receiving tomb and permitted the construction of several private tombs, and enclosed the limits of the burial ground with a fence. The cemetery landscape reflected a Colonial style layout, with rows of individual graves, grassy paths, and gravel roads.
- *Union Assinippi Cemetery – 1792 -1921.* This 129-year period begins at the inception of the cemetery by 37 proprietors, continues through the ownership of the Union Cemetery Corporation, and ends when the UCA turned the property over to the Town of Hanover. During this period, proprietors and the UCA built private tombs facing north plotted and sold lots nearby, built the perimeter walls, and established the stone “fence” along the northern edge.
- *West Hanover Darling Cemetery – 1829 – 1891.* This small family cemetery served the community of West Hanover for just 62 years, providing burial space for the few families living in the area during the 19th century. During this period, the cemetery received its first and last interments, and through some of it, the Town likely maintained a perimeter fence.

LANDSCAPE ASSESSMENT

The following is an assessment of the landscape conditions at Hanover's Center, Union and West Hanover Cemeteries. Its purpose is to document the existing natural, built, and functional features; to analyze their condition; and to outline preliminary recommendations for preservation treatment. Together with the information compiled about the historical development of each cemetery, the assessment provides a foundation for the *Hanover Cemeteries Preservation Plan*.

Hanover Center Cemetery

Hanover Center Cemetery stands at the northwest corner of Main and Silver Streets in the center of the Town of Hanover. While the entire property exceeds 30 acres, this plan focuses on the oldest and most historic section only, 5.4 acres located at the southeast corner. The cemetery's location places it amidst Hanover's civic hub, with the Town hall, fire and police departments, public library, Hanover Historical Society (Stetson House), two public elementary schools (Centre and Sylvester) and Town-owned recreation fields all nearby.

Context & Edges

Surrounding the 5.4 historic section of Center Cemetery is a mix of public and private properties, several of which retain a high degree of historic value and visually complement the cemetery. On the south is the Hanover Congregational Church, dating to the mid 1800s and to the south of the church across Hanover Street, are the Town hall and public library. To the southeast is the Civil War Monument, standing in a traffic island. The Centre Elementary School lies along the east side opposite the cemetery on Silver Street, and a private residence, separated from the cemetery by a hedgerow of trees and shrubs, is on the west. To the north is the remainder of Center Cemetery, a well-groomed landscape that provides a picturesque backdrop to the historic section.



The southwest corner of Center Cemetery's historic section features a mix of family plots and single graves, ornamented by flowering shrubs and shade trees.

The Town has provided the cemetery with strong edges on all sides. To the west, a 4' high rusted chain link fence reinforces the mixed deciduous and evergreen hedgerow. Utility poles, leading from a line on Main Street, string along the west side, providing power to the cemetery office (located to the northwest of the historic section). Plantings of Rhododendrons punctuate this hedgerow, providing brilliant color in spring. A cut granite, mortared stone retaining wall, ranging in height from less than 12" to over 4', rims most of the southern edge, and four private tombs and the Town tomb, have been built into the wall towards the eastern end. Three crabapple trees grow along Main Street between the wall and street edge. The Town has placed a 4' high white PVC picket-style fence for the approximately 130' feet stretching from the tombs eastward to the southeast cemetery corner. The PVC fencing continues along the entire length of the east edge, and regularly-spaced Sugar Maple and London Plane trees grow between the fence and edge of Silver Street. The condition of these young and adolescent trees ranges from fair to very poor. The northern edge of the old section is marked by Central Avenue, which creates a bold dividing line. Reinforcing the roadway is the cemetery landform, which rolls downward away from Central Avenue, into the more modern cemetery areas.



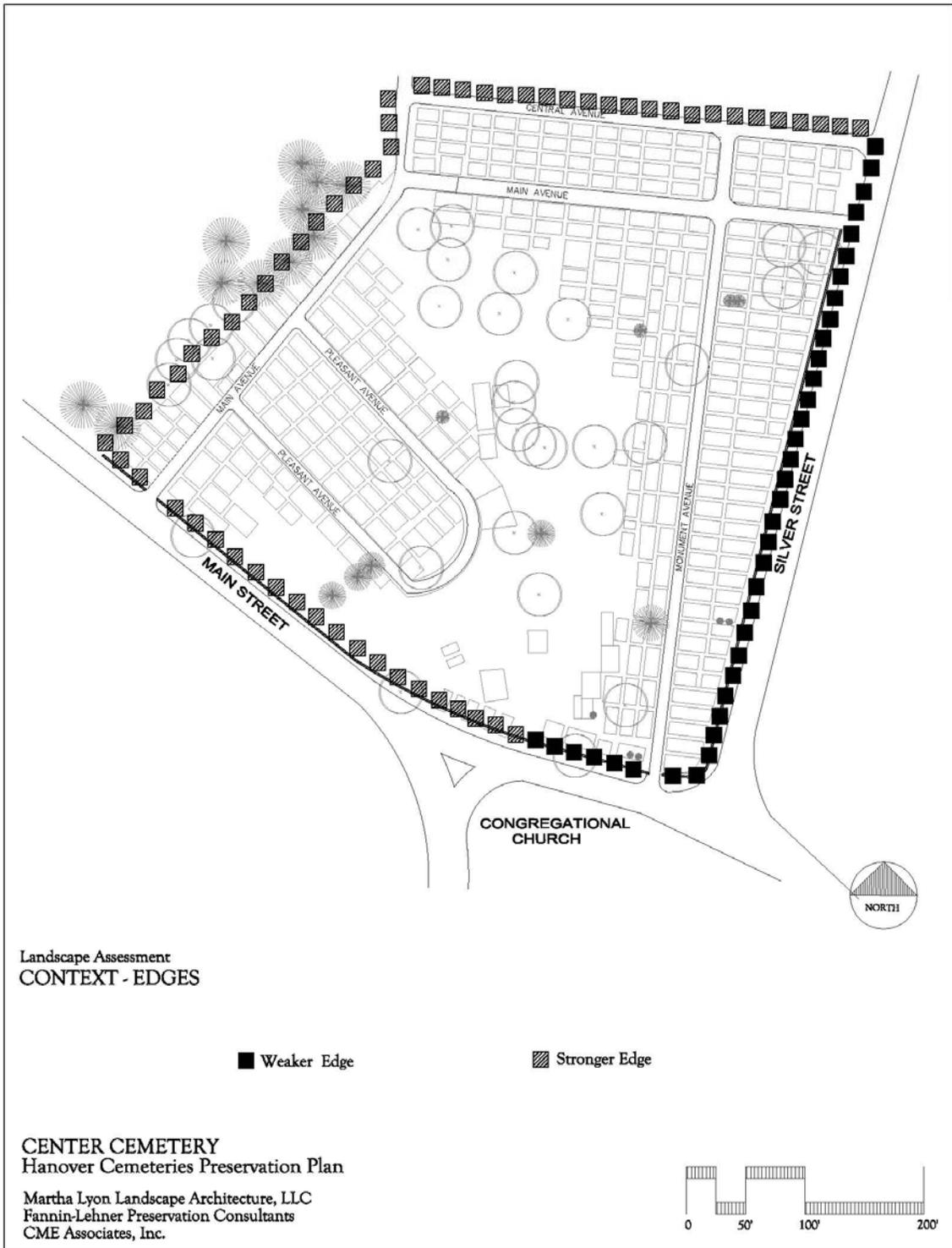
One of four entrances to the old section lies at the southeast corner, at the intersection of Main and Silver Streets. Granite posts mark the entry drive.

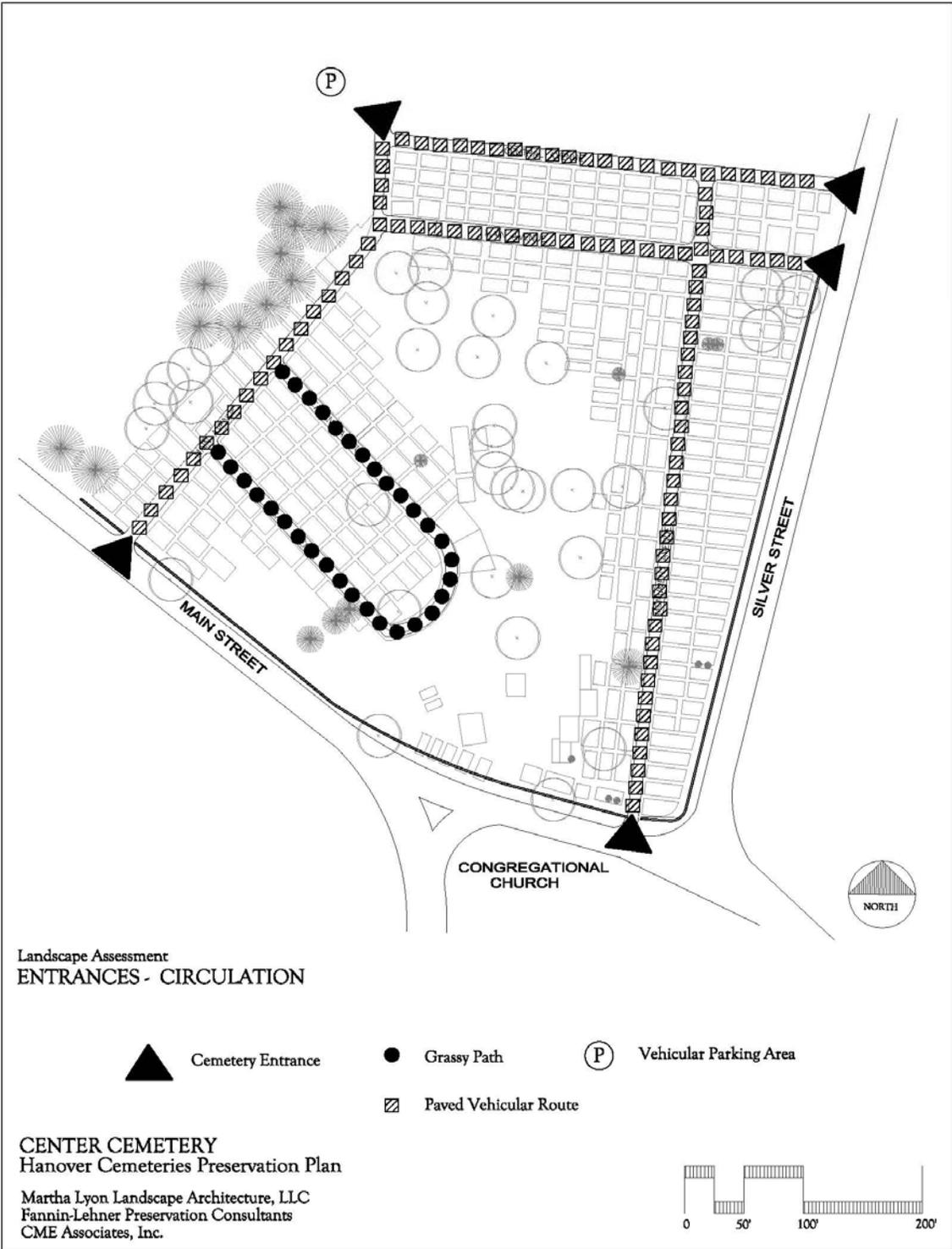
Entrances & Circulation

Visitors enter the cemetery's historic section at one of four locations from the outside, and a fifth location from the inside. Two entrances stand along Main Street, located near the southwestern and southeastern cemetery corners. At the southwestern entrance, the granite retaining wall returns into the cemetery drive, creating a simple gateway. At the southeastern entrance, a pair of 8" square, tapered-top granite posts flank the cemetery drive, serving as anchors for the PVC fencing. The Silver Street entrances stand near the old section's northeast corner and each is marked by a break in the PVC fence. The fifth entrance, located at the

old section's northwest corner, allows visitors to access the cemetery from the newer sections to the north. This entrance does not contain a gate, gateposts, or fencing, and provides access to the cemetery office from the old section. The PVC fencing partially obscures all but the southwest entrance, making turns off Main and Silver Streets somewhat difficult. As a result, most vehicles enter at the southwest entrance where visibility is best and connect to other parts of the cemetery from there.

Once inside the cemetery, visitors may travel via vehicle on roads paved with bituminous asphalt ranging in width from 11 to 16 feet. Each of the roads bears a name, with a central





road, “Main Avenue,” leading from the southwest corner (Main Street) northward and then making a right turn eastward toward Silver Street. All of the paved roads contain straight alignments and intersect at near-right or right angles, shaping the old section into a grid-like pattern.

In contrast to these main roads is a secondary path, Pleasant Avenue, located near the southwest corner. This narrow, unpaved grassy route leads visitors eastward from Main Avenue and takes a hairpin turn westward, connecting back to Main Avenue. Except when using this grassy path, pedestrians must share the roads with vehicles through. Main and Silver Streets do not contain sidewalks along the outer cemetery edges, making access to pedestrians more difficult.

Topography & Views

Land across the historic section rolls from the east, south and west edges upward towards the center, and a ridged high point, containing the oldest graves, runs through the center. Steep slopes appear most dramatically on the western side of the ridge along Pleasant Avenue. Here, walls, steps and tombs have been built into the grade, emphasizing its steepness. On the northern end, the land rises gently upward, and then begins to fall towards the new cemetery sections. The lowest points stand at the southwest and northwest corners, where the land eventually drops to Molly Brook (outside the cemetery).



The entrances off Silver Street lead to roadways with wide expanses of pavement. These cast a harshness onto the cemetery landscape.

Monument Avenue, Central Avenue, and a portion of Main Avenue have been slightly depressed below the adjacent grade, making them less visually prominent. The steep areas (greater than 5%) present difficulties to persons with physical disabilities who may want to access these sections of the cemetery. Fortunately, most of the cemetery roadways, and a majority of its burial sections remain relatively level, providing easy access for all visitors.

Center Cemetery’s varied topography and especially its central ridge, provide many opportunities for taking in pleasing views, both across the cemetery landscape, and as well as to the outside. The most positive views are from the northern part of the old section, looking southward towards the Congregational Church; and from the high central ridge looking across the cemetery landscape in all four directions. Views from the top of Main Avenue southwestward (down the roadway) and from Main Avenue looking eastward down Pleasant Avenue, also offer outstanding glimpses of grave markers, monuments, family plot details, ornamental vegetation and shade trees. The least positive views include the open swaths of pavement along Central and Main Avenue along the northern edge. This area contains few

trees, and the width of the pavement creates a harsh, sterile feel in contrast to other parts of the old section. The Town has provided generous screening along the western edge, giving the abutting residence privacy from the public cemetery property.

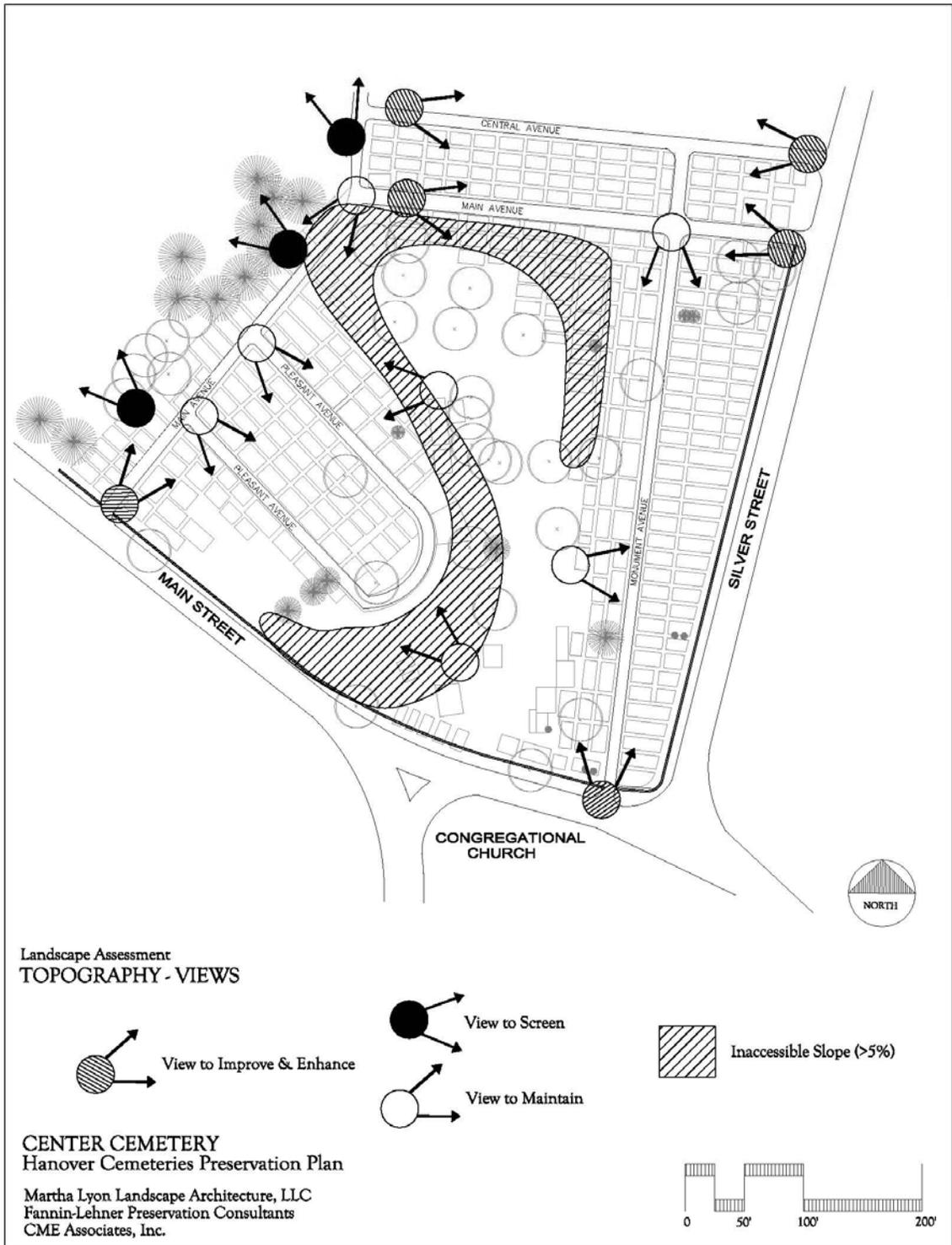


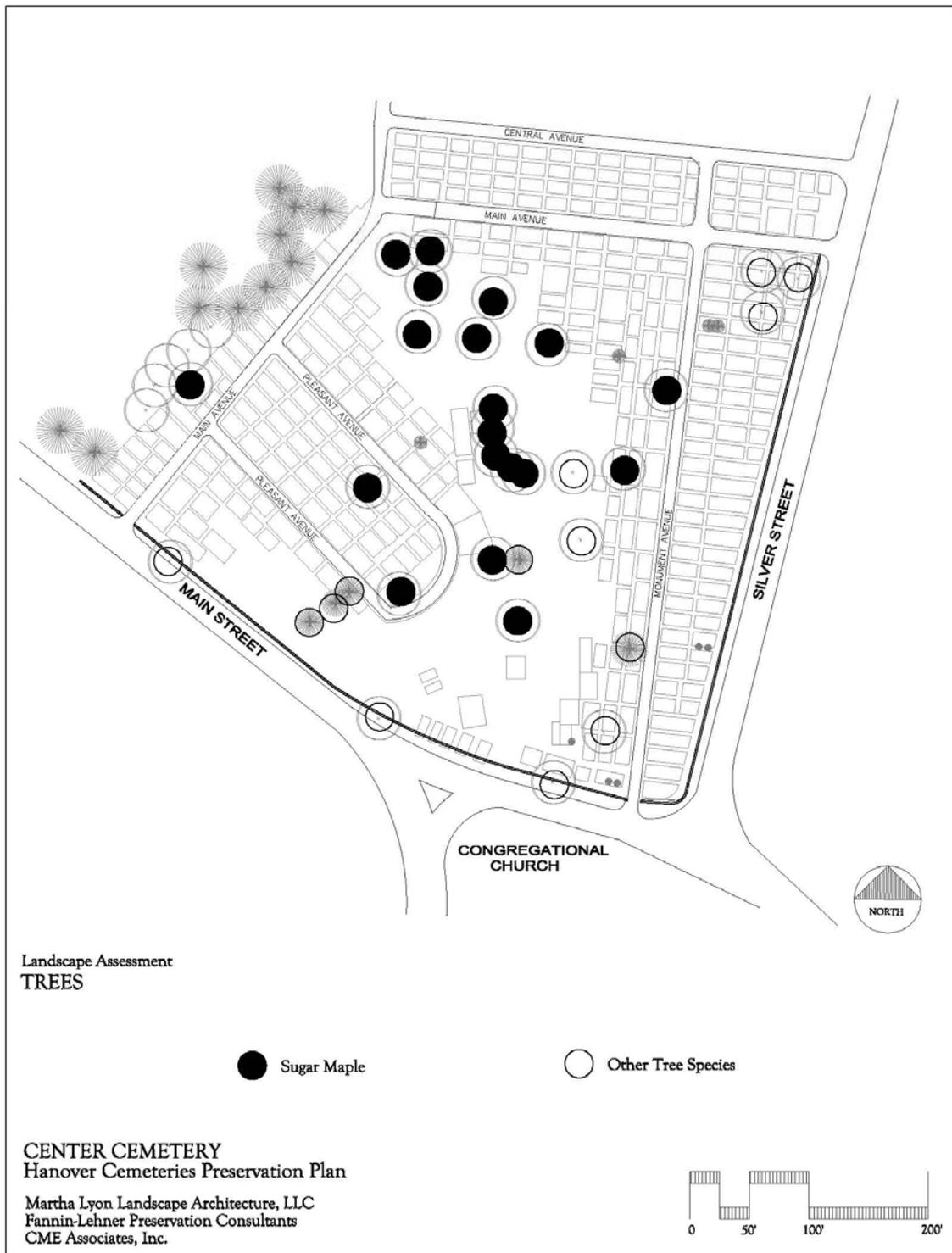
The old section contains two specimen White Fringe Trees, seen in this photograph in full bloom. This shrub, along with several others, ornament some of the gravesites.

Trees & Plants

The old section Center Cemetery contains five specific plant communities, each playing an important role in the historic look of the landscape, as follows:

- *Shade and/or Specimen Trees.* The predominant plant community consists of shade and specimen trees, scattered throughout the old section, with a concentration on the ridge. Species include Oaks, Spruces, Cedars, and Sugar Maples, with the latter accounting for over half of all trees. Most of the trees have reached maturity, and the approximately 50' height of many provides a canopy over most of the landscape, making it a comfortable place for humans. By allowing one species – Sugar Maple – to dominate the population, the Town leaves open the possibility of significant tree loss, should species-specific disease attack the cemetery.
- *Street Trees.* As noted under the discussion about Edges, the Town has planted shade trees along both Main and Silver Streets, just outside the cemetery edge. Sugar Maples and London Plane Trees span Silver Street and most appear to be in poor condition. While healthy, the three Crabapples growing along Main Street will not reach a significant height, even when mature.
- *Hedgerow Trees.* The trees lining the west edge grow in the form hedgerows, or densely planted trees growing in linear groves, interspersed with understory. Maples, Pines, and Birch dominate the mix of these trees. While many stand outside the cemetery boundary, they play an important role in screening the adjacent residential property. Like the specimen/shade trees, the species mix of this hedgerow should be diversified so that one species does not dominate.
- *Gravesite Plantings.* Center Cemetery's old section contains several plantings of flowering shrubs and perennials, located alongside graves. Notable among these are clusters of Iris, Rhododendrons, and Yews, and the landscape contains two spectacular specimen White Fringe Trees (*Chionanthus virginicus*). The Stetson plot, located at the northeast corner,





features an outside coping enshrouded with Boston Ivy (*Parthenocissus tricuspidata*). These plantings add colorful detail, particularly in spots where trees have been removed.

- *Groundcovers.* In addition to the turf that covers nearly the entire cemetery floor, perennial groundcovers grow throughout, providing a rich array of color and texture throughout much of the year. Species include *Waldstania* (Barren Strawberry), *Stachys* (Lambs' Ears), *Ranunculus* (Buttercup), clovers, mosses, and others. These play two important roles in the cemetery, (1) to punctuate the landscape, and (2) to minimize the need for mowing.

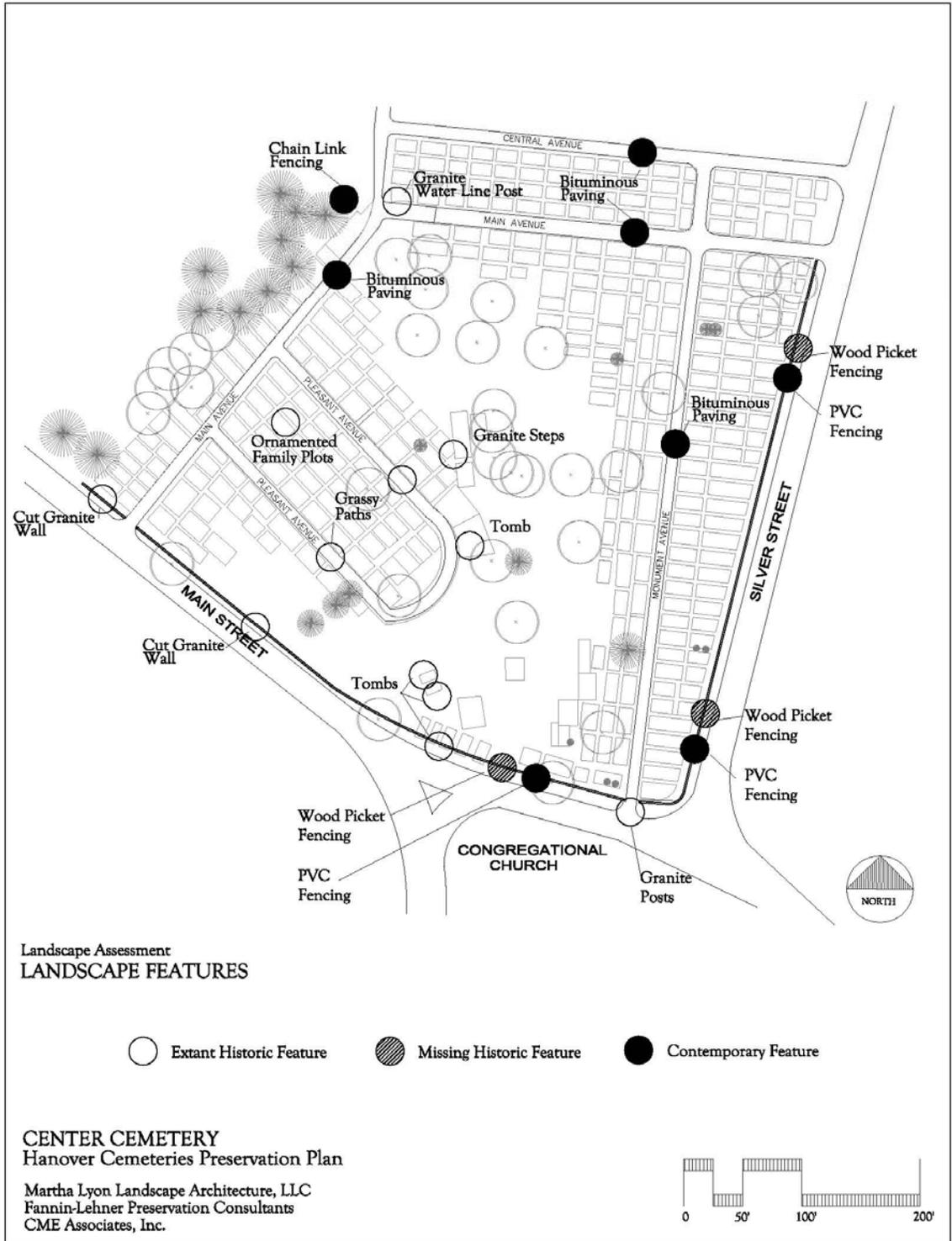
Walls & Tombs

The old section of Center Cemetery contains many walls, tombs and family plot copings that play a large role in shaping its historic character. A detailed inspection report of the structures appears in *Appendix B: Engineering Assessment of Structures at Center Cemetery and Union Cemetery in Hanover, Massachusetts*. Highlights of this report are as follows:

- *Border Walls.* These structures line Main Street and form the cemetery's southern edge. The bulk of this wall is structurally sound, however mortar is missing in several locations, and re-pointing is required. The western portion of the wall shows signs of vehicular damage and is in need of repair.
- *Tombs.* The cemetery contains a total of seven private tombs and one Town receiving tomb, and the project team was able to access the interior of the Town tomb. The condition of these ranges from excellent (Whiting family tomb; Sylvester tomb), to good (Town tomb). The façade of the Town receiving tomb is pushing forward, resulting in open joints. The other tomb structures show cosmetic damage (staining, plant growth, loss of mortar).
- *Family Plot Copings.* Family plots appear throughout much of the old section, concentrated largely below the central ridge. Many display granite copings which rim the outer edges of the plots. Most stand plumb and true, with a few showing signs of leaning. Overall these details are in very good condition.

Gravestones & Monuments

Assessment of the grave markers at Center Cemetery revealed that 435 gravestones and monuments require some type of conservation treatment. Materials for these markers include slate, marble and granite. The marble and granite monuments are in good condition, while the marble gravestones, with and without bases, are in fair condition. The slate tablet gravestones are in the poorest condition, with many tilted, falling, broken and/or delaminating. Treatment of 329 of the 435 gravestones and monuments (roughly 75%) is considered to be "urgent," with the remaining 106 to be "less urgent." Stones classified as "urgent" are scattered throughout all burial sections. For more detail about the gravestones and monuments requiring conservation treatment, refer to *Appendix C* of this plan, *Gravestone Assessment*.



Landscape Features

The Center Cemetery landscape contains many details which add significantly to its historic character. They include family plot details, including curbs, copings, fencings, and paving; grassy paths (Pleasant Avenue); tombs and retaining walls; mature shade trees and specimen shrubs; granite gate posts and water system supports. Missing historic features include gravel roadways (replaced by bituminous asphalt in the late 20th century); wood picket perimeter fencing; and tall shade trees lining both Main and Silver Streets. Contemporary features include the bituminous paving, plantings of Crabapple trees, and PVC perimeter fencing.

Preliminary Recommendations

- Replace the PVC perimeter fencing with wood picket-style fencing. Secure the fencing with granite posts to match those located at the southeast cemetery entrance.
- Introduce plantings of street trees along Silver and Main Streets. These trees should be tolerant of urban conditions, long-lived, and should grow to heights of at least 30’.
- Narrow the roadways to a maximum width of 12’. Plant new shade trees in new shoulders, where possible.
- Enhance the bituminous asphalt paving within the old section by applying an oil and stone surface (gravel rolled into an asphalt emulsion). This treatment will give the surface the appearance of gravel, without having to remove the existing asphalt.
- Clean and re-point the Main Street border wall; clean and re-point the tombs, and rehabilitate the façade of the Town receiving tomb.
- Commission a detailed evaluation of the historic trees and implement recommendations to save the best trees.
- Plant new shade trees in areas without shade, such as Section G (at the northern end). Introduce a diversity of species, excluding species of Maple (*Acer*) from this selection.
- Conserve the gravestones and monuments identified in *Appendix C* as in need of treatment.

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Union Cemetery

Union Cemetery lies in the northeast corner of Hanover, near the intersection of Routes 123 and 53 just east of the Norwell line. Once a quiet crossroads with several residences, mills, a church and a few stores, this is now a busy intersection, with a constant stream of traffic throughout the day. The cemetery stands on 1.85 acres to the east of Route 53 and on the south side of 123, between the Assinippi commercial area (on the west) and Third Herring Brook (on the east).

Context & Edges

Union Cemetery's context includes a mix of land uses. To the west and south are properties within the Assinippi commercial area, with one and two-story buildings, surrounded by bituminous parking lots. The lots abut the cemetery's west and south edges. To the north, on the opposite side of Route 123, are several small residential properties and beyond these (to the north and east) lies Jacob's Pond. Third Herring Brook and its wooded environs lie along the eastern side.



The northern edge of Union Cemetery features a cut granite retaining wall topped by a historic reproduction metal fence. The center of Assinippi lies in the background.

The cemetery's edges both complement and conflict with the landscape's historic character. Complementary edges line the west, south and east sides. The west and south sides feature dense hedgerows of mature deciduous and evergreen trees and 36" high dry-laid fieldstone border walls. 5' chain link fencing (rusted on the west; green vinyl on the south) has been added to these edges, adding a less complementary, modern feature. As discussed below under *Topography & Views*, these hedgerows screen out the large swaths of bituminous paving of the abutting properties, and their height (approximately 50') creates a feeling of privacy and intimacy within the cemetery. Unmanaged woodlands that surround Third Herring Brook fill the eastern edge, providing a leafy screen. A dry-laid fieldstone wall rims the northern portion of this edge, however the wall terminates after approximately 75', leaving the remainder of the edge open to the brook.

On the cemetery's northern edge, the constant flow of vehicles along Route 123, combined with the lack of a strong barrier, results in conflict the landscape's historic feel. While Route 123 is not exceptionally wide, the cemetery sits close to the pavement edge, with little shoulder in between. An 18" cut granite wall, topped by a modern metal fence, rims the cemetery's northern property edge, providing a modest division but doing little to buffer heat and noise. A large Shagbark Hickory tree, accompanied by two small Sweetgum trees, stands along the

inside of the wall. Otherwise, northward views from within the cemetery outward lie completely unobstructed.



The cemetery's grassy paths are one of its most appealing historic features, leading visitors on a series of loops throughout the landscape.

Entrances & Circulation

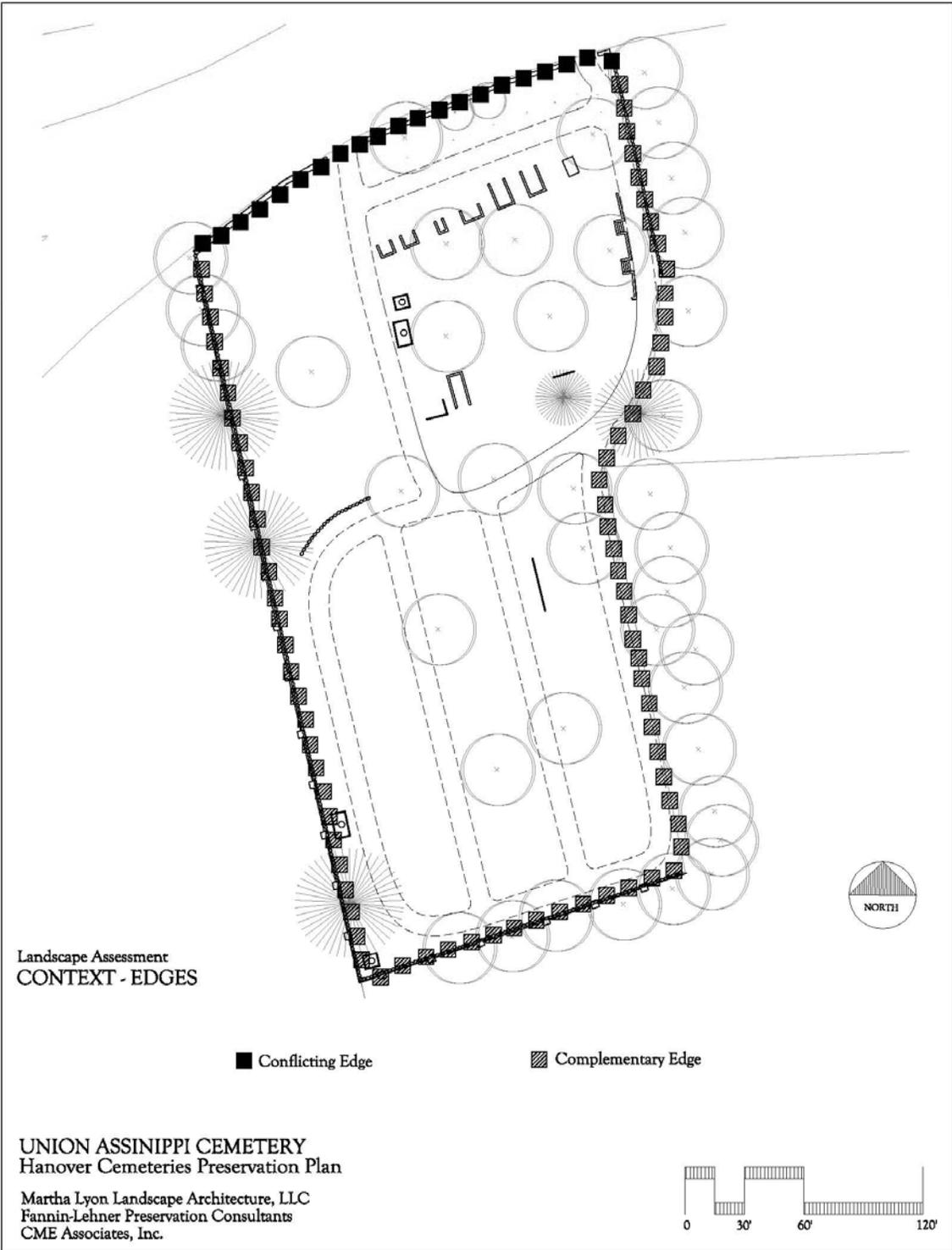
Visitors may enter Union Cemetery at two points along the northern edge, located at the eastern and western ends. Each is marked by a break in the stone wall, a set of 36" high granite tapered-top gate posts supporting a set of double-leaf metal gates. While the width of both gates will accommodate a vehicle, their close proximity to the road edge makes them difficult to access. Vehicles entering from Route 123 must make a sharp 90 degree turn to avoid the gate posts. The western gate lies close to the western cemetery edge, and vehicles traveling eastward on

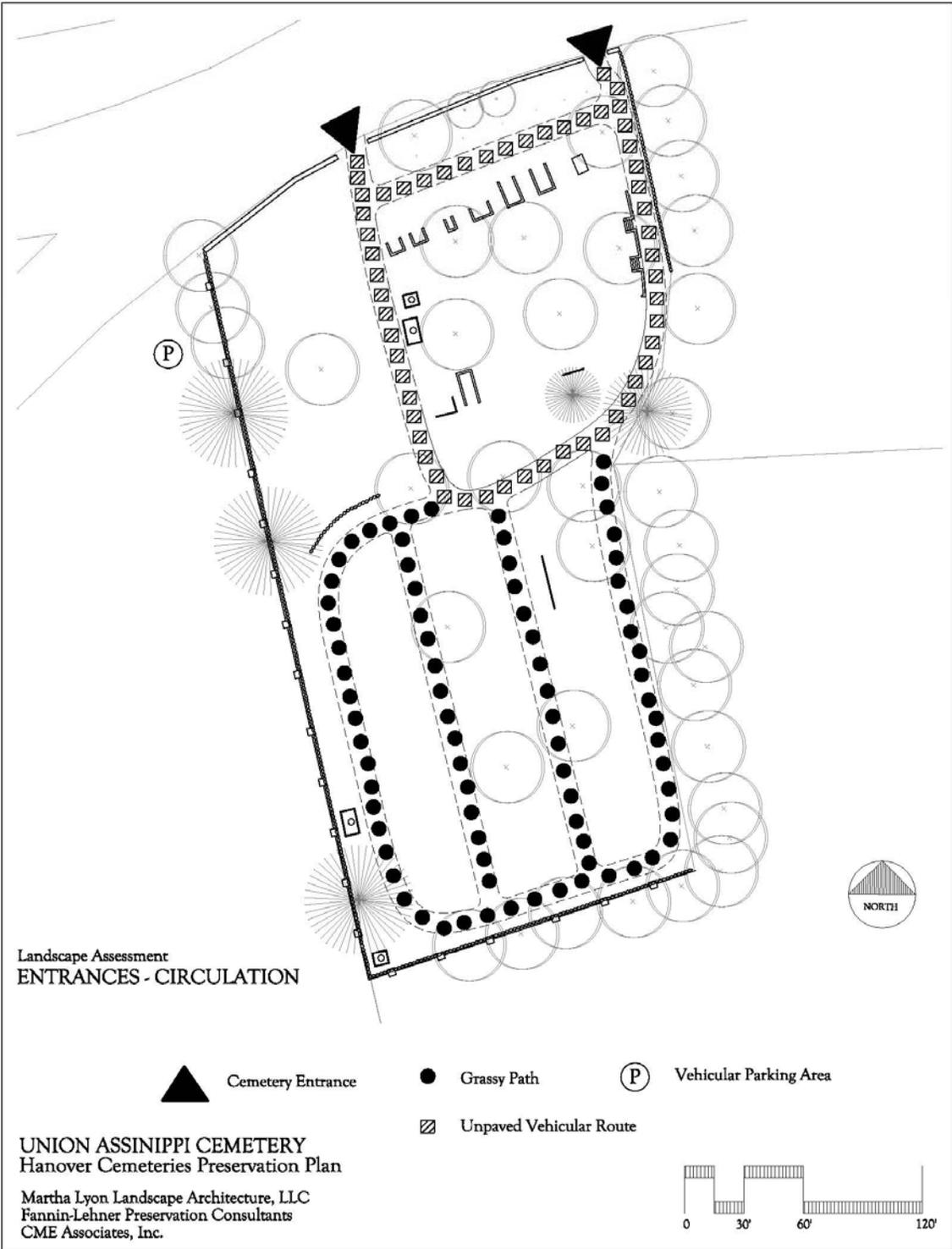
123 arrive at this entrance abruptly. As a result, most vehicles appear to use the easternmost entrance, which is more visible to drivers traveling from Hanover, eastward. A secondary pedestrian entrance, marked by a third square granite post, stands to the east of the eastern vehicular entrance.

Once inside the cemetery, visitors may travel by vehicle via a series of narrow (10' to 12') paths, circulating throughout. The main path leads from the eastern entrance southward along the cemetery's eastern edge and loops back towards the western entrance, traversing the northern half of the cemetery. A secondary pathway continues from this main pathway around the outer edge of the cemetery's southern half, forming a figure eight with the main pathway. A set of two tertiary paths run north to south through the southern half, dividing the burial into three long rows. Turf covers the surface of each path, with the exception of a short turf and dirt section along the eastern cemetery edge. The lack of pavement within the cemetery adds significantly to the historic character.

Topography & Views

The path system divides the landscape into two nearly-equal sized sections, and the cemetery topography further reinforces this division. Beginning at the northern end, the land slopes upward - at first gradually and then sharply - to a high ridge. From here the land slopes back downward, to a more gently sloping plain. The entire property slopes eastward towards First Herring Brook, dropping steeply in both the north and south sections. The undulations in this landform provided many opportunities for adding retaining structures, including tombs, walls, curbs, and steps, as well as terracing. The structures appear throughout the northern section, while the terraces step down at the southeast corner of southern section.





Because of these changing slopes, several locations in the cemetery are inaccessible to persons with disabilities. Slopes exceeding 5% span the north and south sides of the northern half, and appear in the eastern third of the southern half. However, nearly all of the grassy paths provide gentle grades, allowing most visitors to traverse the cemetery on foot.

The varying topography allows visitors to take in many outstanding views across the cemetery landscape. The positive views – those to maintain – are from the ends of the grassy paths, looking downward, along the burial sections. Views to the east lie obstructed by unmanaged woodlands. If improved, they offer opportunities to view the wetland vegetation buffering Third Herring Brook. Views to screen include those that take in the bituminous asphalt parking lots on the west and south sides. While the dense hedgerows provide a barrier in the warm months, the parking lots are visible in late fall, winter, and early spring, and conflict with the cemetery’s visual appeal.

Trees & Plants

Union Assinippi Cemetery contains four distinct plant communities – shade and specimen trees, hedgerow trees, gravesite plantings, and groundcovers, and each plays an important role in shaping the historic character, as follows.

- *Shade and/or Specimen Trees.* A total of eighteen shade and/or specimen trees grow within the cemetery grounds, and species include Shagbark Hickory, Sweetgum, Horse Chestnut, Oak, Linden, Cedar, White Pine and Sugar Maple. Sugar Maples account for nearly one-half of the tree population. All of the trees have reached maturity, except for the two Sweetgums planted along the northern cemetery edge. The approximately 50’ height of the mature trees provides a canopy over most of the landscape, making it a comfortable place for humans. While the assortment of species will result in a healthier tree population over the long term, Sugar Maples dominate, leaving open the possibility of significant tree loss, should species-specific disease attack the cemetery.
- *Hedgerow Trees.* Most of the trees lining the west, south and east cemetery edges grow in the form hedgerows, or densely planted trees growing in linear groves, interspersed with understory. Maples and Pines dominate the mix of these trees. While many may stand outside the cemetery boundary, they play an important role in screening incompatible



A mass of purple Iris enshrouds a gravesite in the southern section of the cemetery. Several different types of gravesite plantings, including this one, appear throughout.

adjacent properties. Similar to the specimen/shade trees, the species mix of these hedgerows should be diversified so that one species does not dominate.

- *Gravesite Plantings.* Union Cemetery contains several plantings of flowering shrubs and perennials, located alongside graves. Notable among these are masses of Iris, single Yucca plants and Barberry shrubs. Azaleas and Lilies-of-the-Valley are planted around the Jacobs family plots (southwest corner). These plantings add colorful detail, particularly in spots where trees have been removed.
- *Groundcovers.* In addition to the turf that covers nearly the entire cemetery floor, perennial groundcovers grow throughout, providing a rich array of color and texture throughout much of the year. Species include *Waldstania* (Barren Strawberry), *Stachys* (Lambs' Ears), *Ranunculus* (Buttercup), clovers, mosses, and others. These play two important roles in the cemetery, (1) to punctuate the landscape, and (2) to minimize the need for mowing.

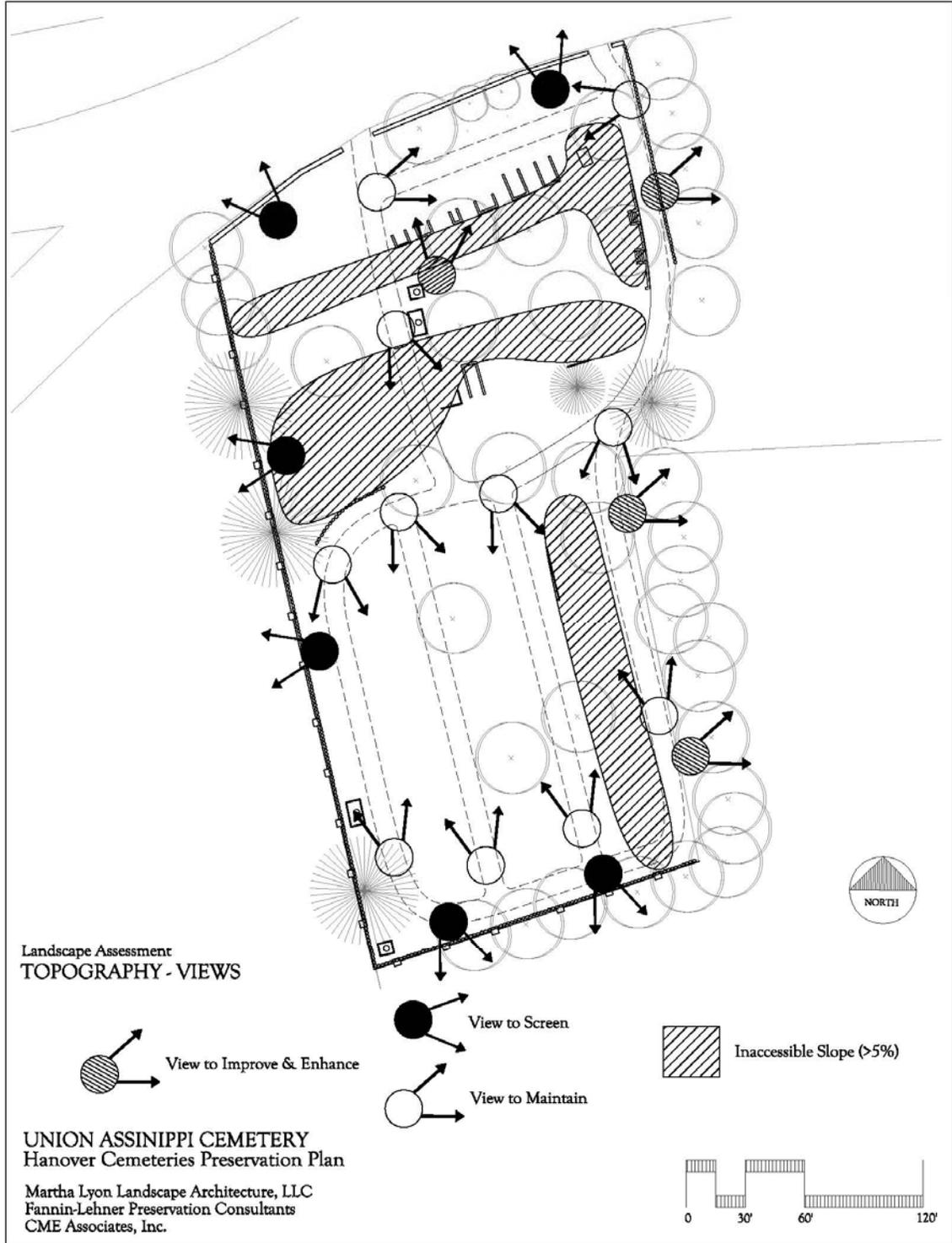
Tombs, Walls & Steps

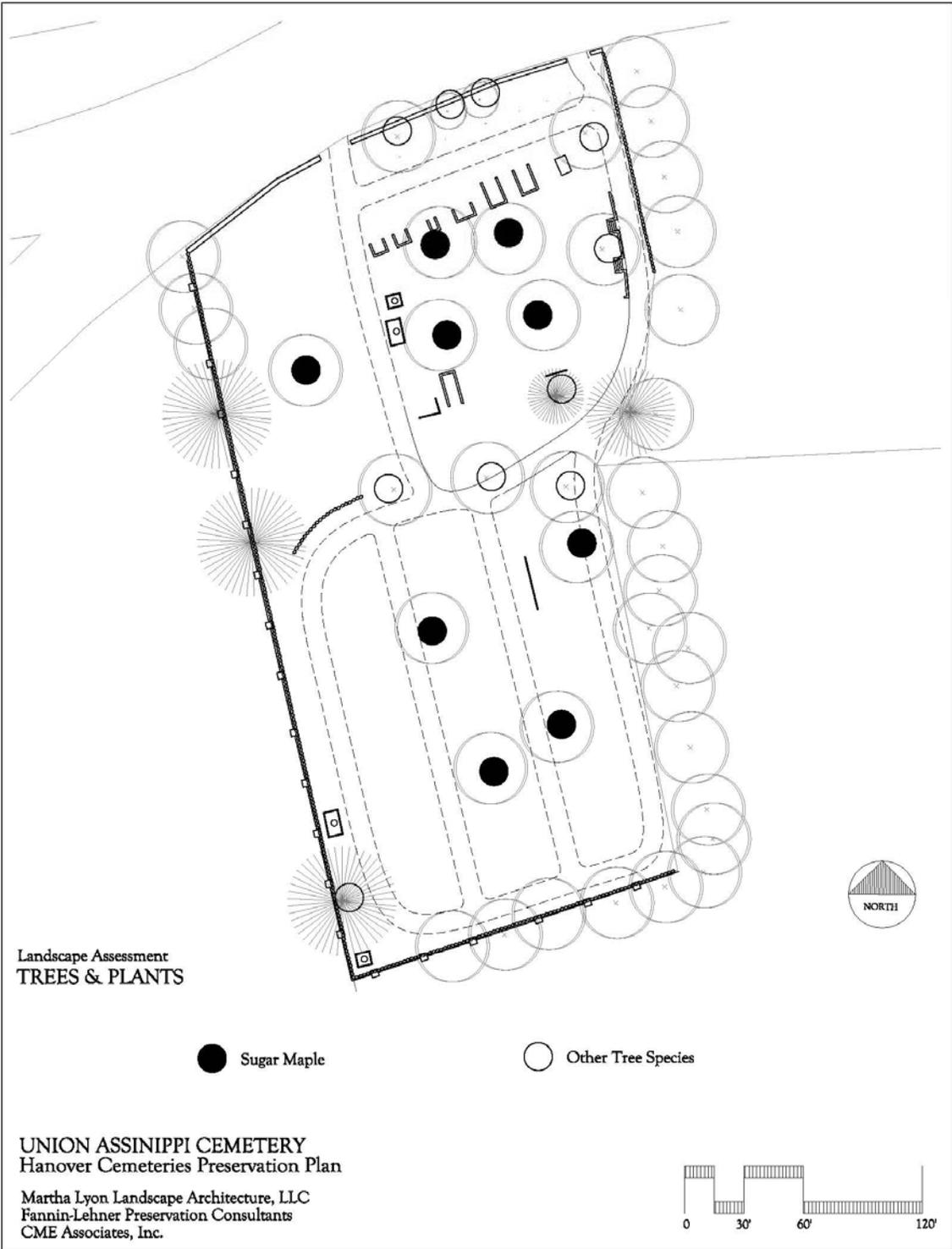
Union Cemetery contains eight private tombs all located in the northern half of the cemetery, the northern edge retaining wall, and a curved retaining wall and steps built into the eastern slope. The project team was able to access the inside of two tombs, and evaluated the remainder from the outside. In general, the tombs appear to be structurally sound, with their brick, barrel-vaulted interiors intact and showing no signs of leaking. Failures in the structures appear (1) in the facades (header and lintel stones), where frost has built up behind the walls and is pushing them forward, and (2) in the wing walls, which are toppling over because of soil pressure. The exteriors also contain staining, and vegetation (Boston Ivy) is enshrouding one.

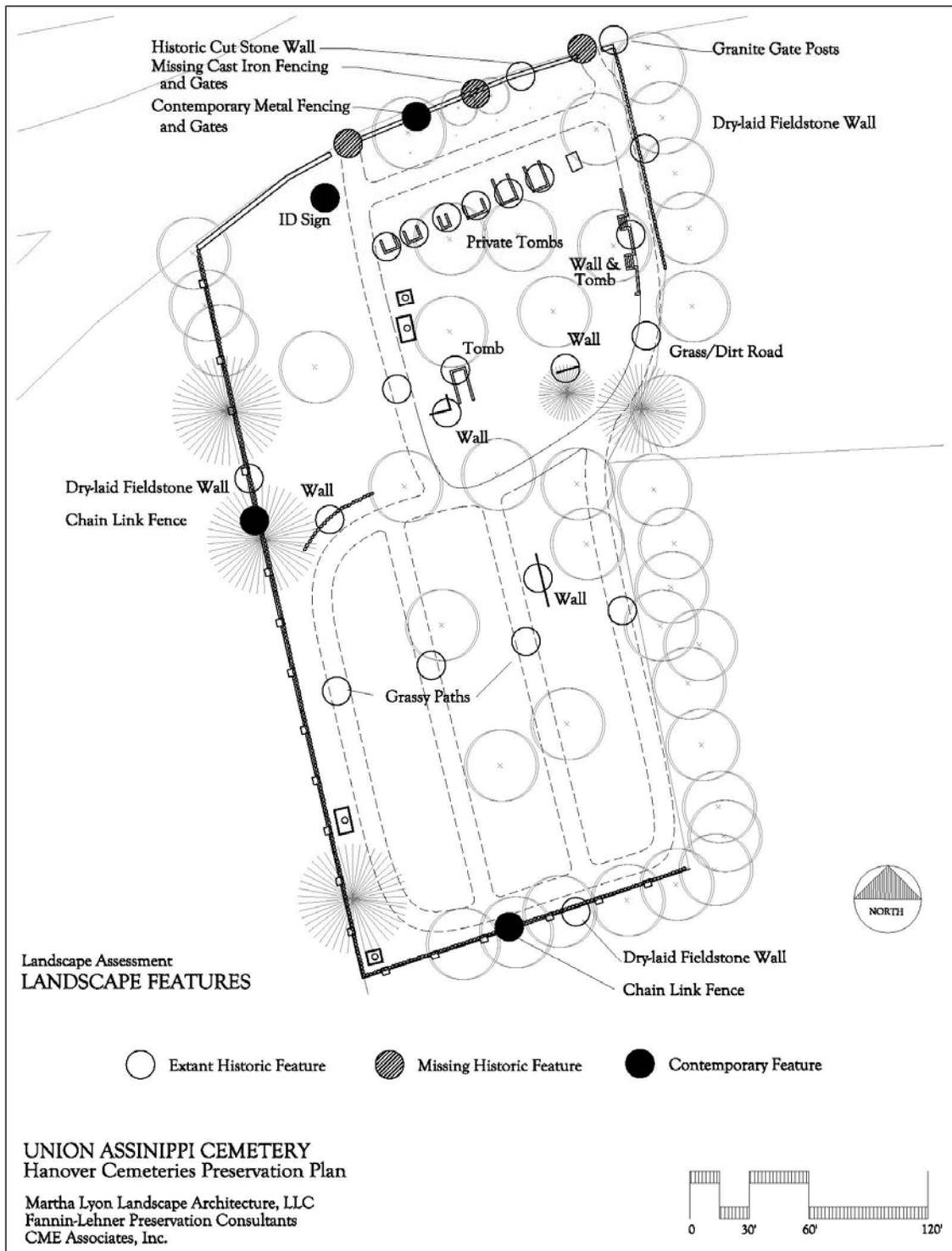
The retaining walls along the northern edge eastern slope, while stained are structurally sound, plumb and true, with only the re-pointing missing in several areas. The granite stairs, located at two points along this wall, are also structurally sound, however their riser-tread ratio does not adhere to contemporary building codes. Finally, the dry-laid stone wall rimming the west, south and portion of the east sides has fallen in many spots, with stones becoming dislodged. For further detail about Union Cemetery's structures, including detailed inspection reports, refer to *Appendix B: Engineering Assessment of Structures at Center Cemetery and Union Cemetery in Hanover, Massachusetts*.

Gravestones & Monuments

Assessment of the grave markers at Union Cemetery revealed that 104 gravestones and monuments require some type of conservation treatment. Materials for these stones include slate, marble, sandstone and granite, with the slate, marble and granite stones appearing in the north section (A), and marble and granite appearing in the south section (B). Treatment of 84 of the 104 gravestones and monuments (roughly 80%) is considered to be "urgent," with the remaining 20% to be "less urgent." Stones classified as "urgent" are scattered through both burial sections. For more detail about the gravestones and monuments requiring conservation treatment, refer to *Appendix C* of this plan, *Gravestone Assessment*.







Landscape Features

The cemetery's many landscape features both contribute to and detract from its historic character. Extant historic features that complement the character include the northern cut granite wall, fieldstone perimeter walls, tombs, walls, steps, curbs, and grassy paths.

Contemporary features include the metal fencing and gates atop the northern border wall, chain link fencing along the western and southern edges, and sign, located inside the western entrance. Missing are the original cast iron fencing and gates atop the northern border wall, and the long view northward towards Jacob's Pond, named for the founders of the cemetery.

Preliminary Recommendations

- Upgrade the cemetery's northern edge by re-pointing the wall, erecting a cast iron fence, and planting regularly-spaced shade trees to provide stronger physical and psychological barrier between the cemetery and Route 123.
- Preserve and enhance the cemetery's western, southern and eastern edges by rebuilding and/or repairing any fallen or dismantled portion of wall. Replace the chain link fencing on the west and south sides by black vinyl-coated chain link. Remove invasive species from hedgerows to encourage growth of native maples and pines.
- Work with the Town of Hanover to (1) provide signs along Route 123 cautioning drivers about the impending cemetery entrances; and (2) create a sidewalk along Route 123 outside the cemetery edge.
- Create a defined point of entry into (at the eastern gate) and exit out (at the western gate) of the cemetery.
- Retain the grassy pathway system and under no circumstances add an impervious surface to the roads. In places where the turf has worn, patch with reinforced turf, using a special shade mix.
- Replace the chain link fencing along the west and south edges with black vinyl-coated chain link. The black color will make the fence disappear in the landscape. Upgrade the hedgerows by removing invasive species and diseased/dead trees. Replant with native species, both deciduous and evergreen.



The six private tombs extending across the northern end mimic front doors, creating a series of cemetery portals.

- Work with the Towns of Hanover and Norwell to clear views into the Third Herring Brook buffer area, removing invasive species, especially in the understory level.
- Work with the Town of Hanover (and possibly Norwell) to open views to Jacob's Pond.
- Commission a detailed evaluation of the historic trees and implement recommendations to save the best trees. Introduce new shade tree plantings, including a diversity of species.
- Remove all Yucca plants growing in the cemetery.
- Stabilize the private tomb structures by rehabilitating the facades and wing-walls. Clean the structures during the rehabilitation process.
- Clean and re-point the retaining walls.
- Conserve the 104 monuments and markers identified in the gravestone assessment as in need of professional treatment.

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West Hanover Cemetery

The West Hanover Cemetery sits on the north side of Circuit Street in the village of West Hanover, just east of the Rockland line. To reach the cemetery, visitors must travel approximately 750 feet along a 24' wide right-of-way leading northward from dead-end section of Circuit Street, passing two residential properties, 959 Circuit Street (a shingled house with red trim) and 969 Circuit Street (a white house). The 1/10th-acre family burying ground lies to the east of the right-of-way, on a rise above Cushing Brook.

Context & Edges

Dense woodlands dominated by Canadian Hemlocks and American Beeches border the cemetery's north, east and south sides, providing a shady, intimate setting for the cemetery. The right-of-way, a cleared, unpaved cart path, abuts the cemetery's west side, and the Town-owned Colby-Phillips Trail skirts the west cemetery edge.



The West Hanover Darling Cemetery is accessed by a 24' wide right-of-way, leading from Circuit Street northward through dense forested woodlands.

A two-rail wooden fence rims the entire cemetery boundary, completely enclosing the property. The rails are constructed of 1" x 6" boards turned on end and painted white. Forty-two inch-high granite posts, spaced ten to twelve feet apart, support the rails. Although the date of the posts is not known, their rough, rock-faced finish suggests that they are historic, and may have supported a different style and/or material of railing at one time. The top of the fence stands approximately 36" to 40" high.

Entrances & Circulation

As noted above, visitors approach the cemetery from the meandering right-of-way off Circuit Street, and while the cart path is unpaved, its surface will allow vehicles to pass. Once the path reaches the cemetery it widens, providing enough space for a car to park. Hikers walking the Colby-Phillips trail, a route leading from Circuit Street to a 135-acre parcel of Town-owned conservation land, pass by the east side of the cemetery.

While the perimeter fence appears continuous with no visible entry gate, a section of the fence, located at the mid-point of the west side, may be removed. The cemetery contains no pathways on its interior, and once inside the grounds, visitors may wander throughout the burial areas.

Views

The cemetery is tucked away into the woodlands, and the denseness of the trees obstructs long views of the cemetery from the right-of-way, as well as those from the cemetery outward. The

Town has cleared most of the understory from the woodlands on the west, north and south sides, making views through the trees possible. Dense growth of trees and understory blocks views to the east, masking Cushing Brook and its buffer.



The lack of trees on the cemetery interior allows visitors the opportunity to view the entire landscape at once.



While historic granite posts, spaced evenly around the perimeter, add to the cemetery's historic character, the modern, 1" x 6" board railings introduce a contemporary, conflicting element.

The cemetery interior lacks trees and shrubs, making it possible for visitors to enjoy many positive views of the grave markers from the outside, and because of the property's small size, visitors may take in the entire landscape at one time. However, the best location for viewing the cemetery is from the east side, looking west, and two identification signs, placed along the outside of the cemetery fence, obstruct this view.

Gravestones

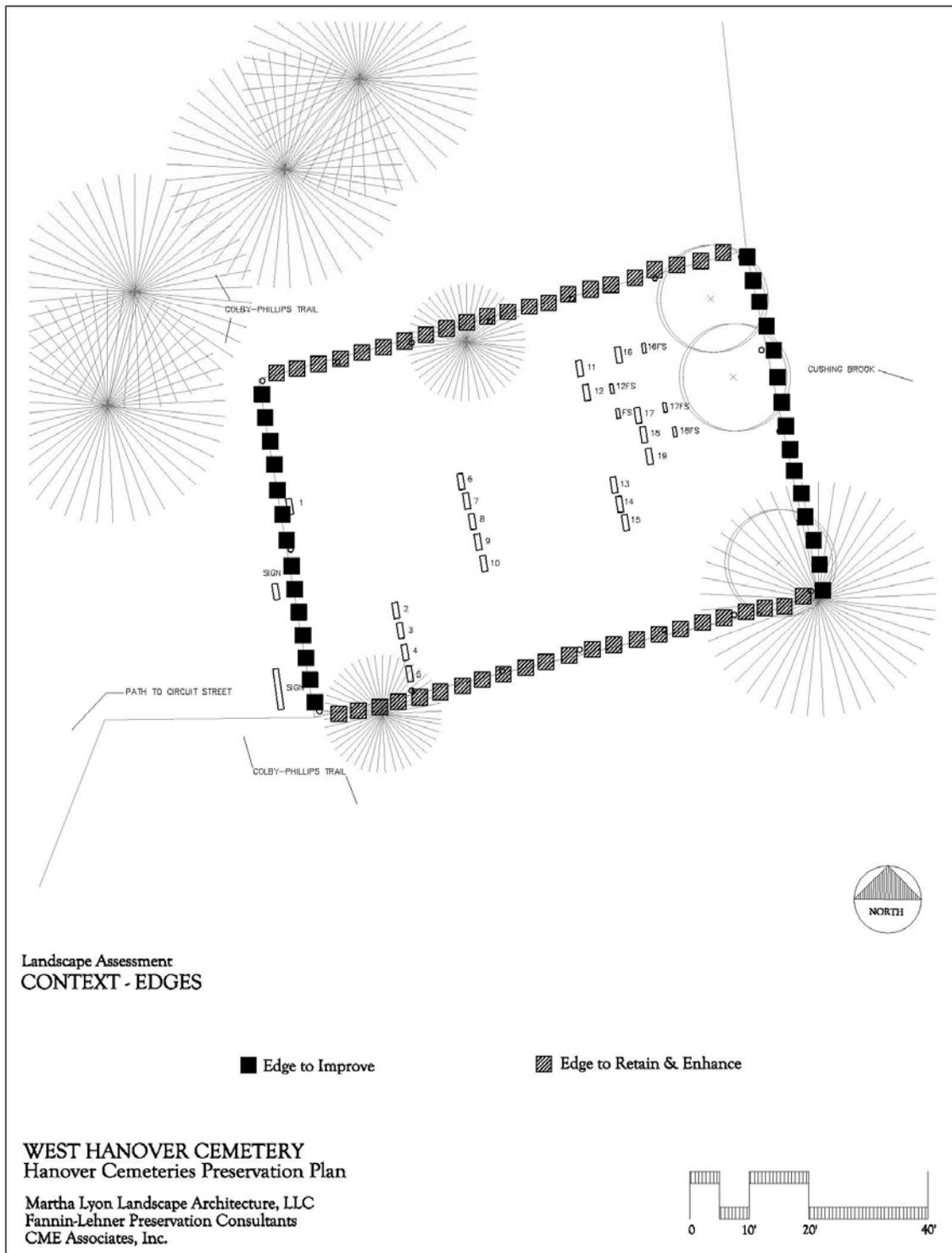
Assessment of the grave markers at the West Hanover Cemetery revealed that 14 stones require some type of conservation treatment. Material for each of these markers is marble, and some are combined with sandstone or granite. Treatment of all but two of the stones is considered to be "urgent." For more detail about the gravestones and monuments requiring conservation treatment, refer to *Appendix C* of this plan, *Gravestone Assessment*.

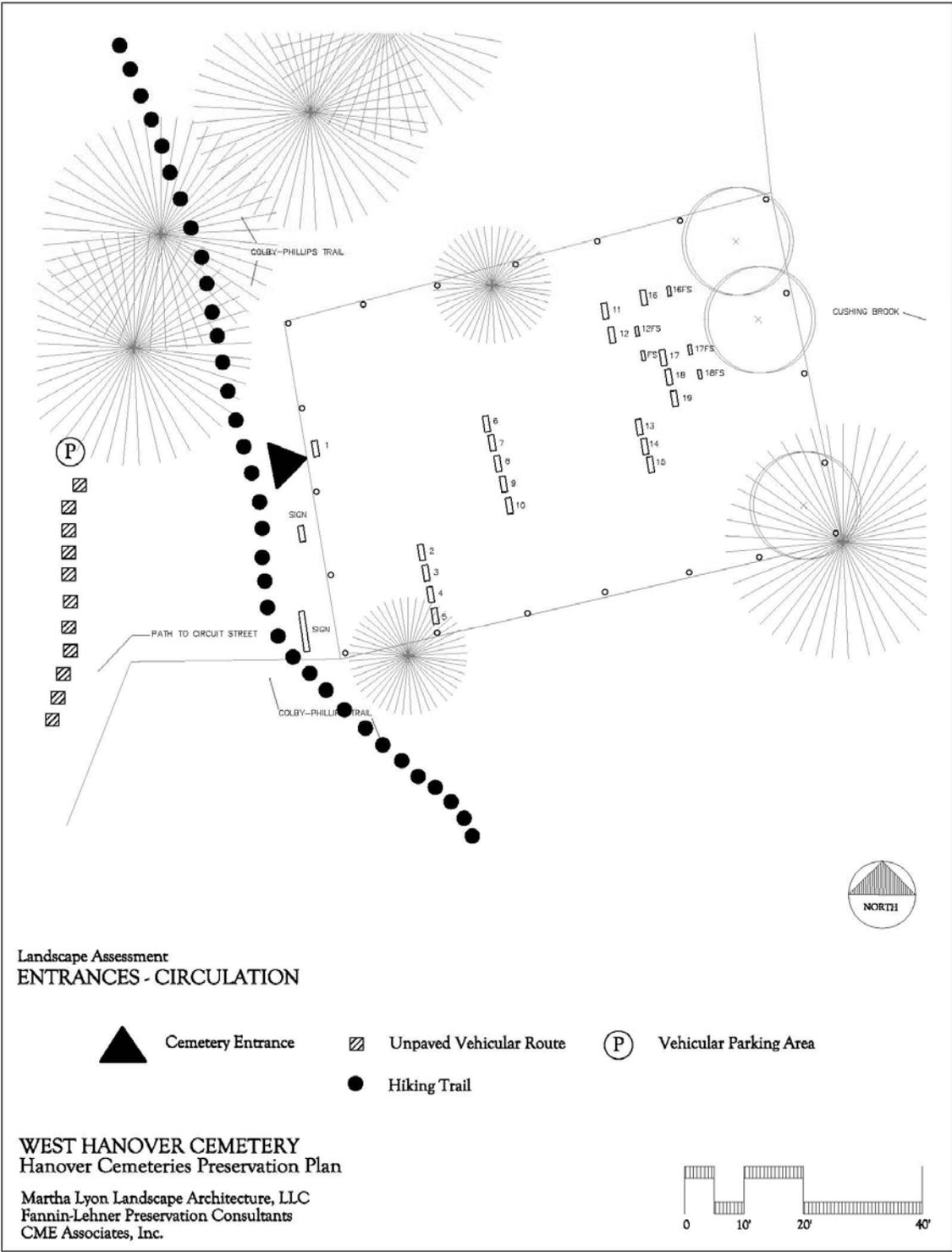
Landscape Features

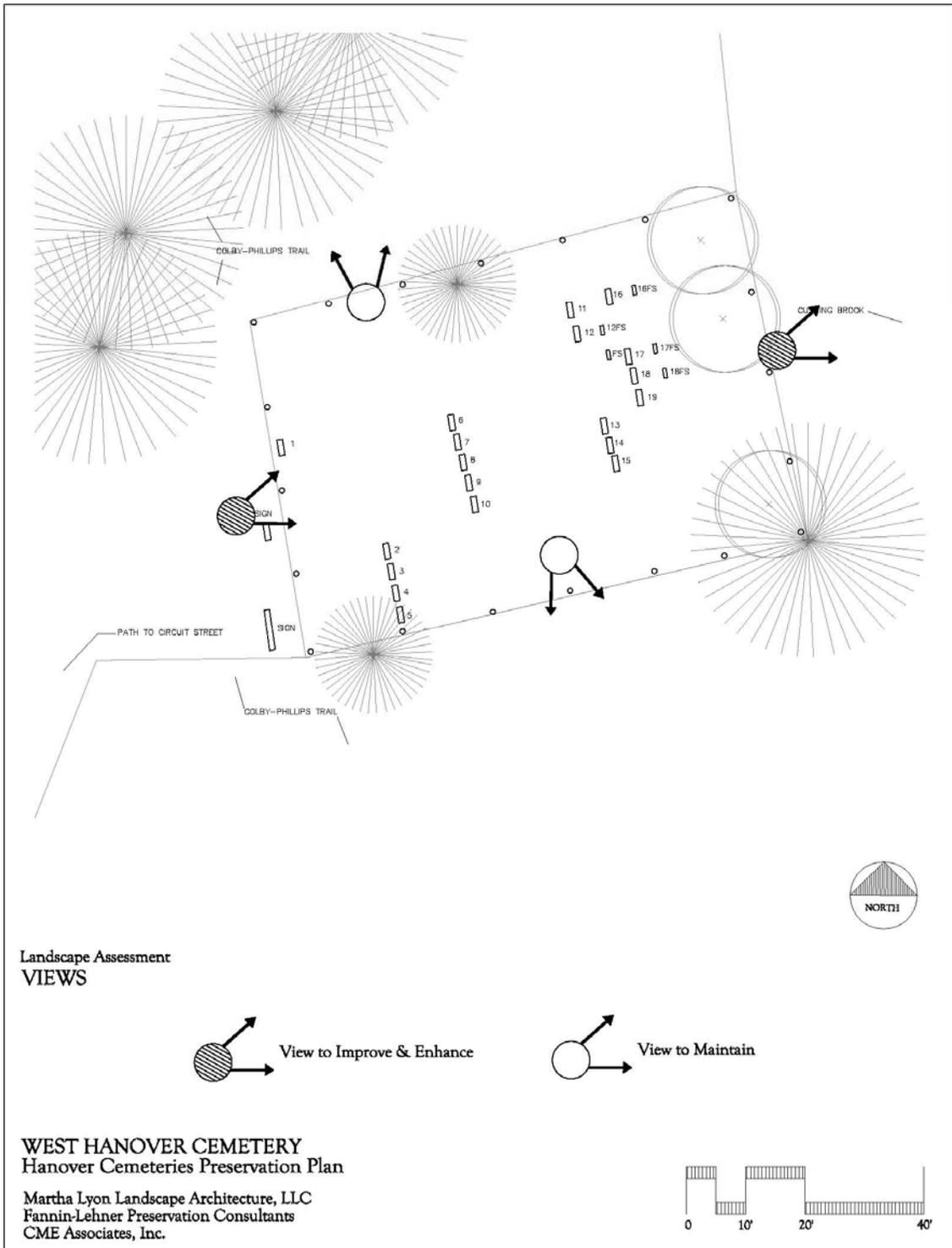
The cemetery's uncluttered appearance adds to its historic character as a simple, family burial plot. Its historic landscape features include the grave markers (head

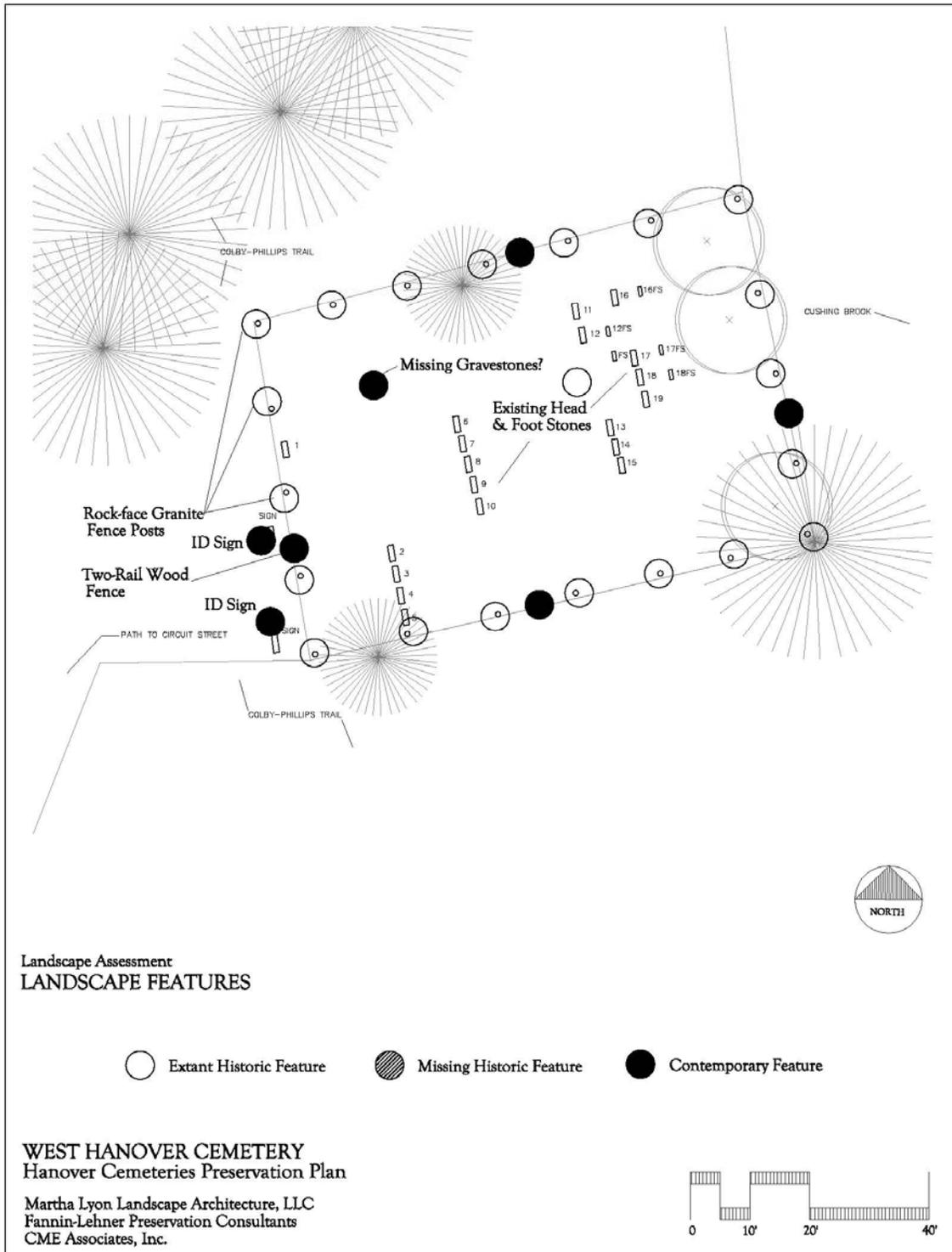
and foot stones), granite fence posts, three Oak trees and one Hemlock, growing along the outside cemetery edge. The health of the Hemlock (as well as others in the woodlands surrounding it) has been compromised by an infestation of Woolly Adelgid. A diversity of ground cover plantings, including wintergreen, *Stachys* (Lamb's Ears), *Waldstania* (Barren Strawberry) and mosses, mix with turf to blanket the cemetery floor.

Contemporary features include the 1" x 6" wood rail fencing and identification signs. The fence plays an important role in delineating the cemetery, yet the modern wood construction conflicts with the landscape's 19th century feel. Similarly, the signs help visitors better









understand the cemetery's importance in Hanover's history, yet their location and materials introduce a modern element into the landscape.

Preliminary Recommendations

- Provide an identification sign at the intersection of the right-of-way and Circuit Street, helping visitors more easily find the cemetery.
- Replace the existing 1" x 6" wood board fence with a more historically-appropriate style of fencing, such as naturally-weathered cedar wood picket. Include an operable gate in the new fence assembly.
- Continue to work with the Town of Hanover to clear understory from adjacent woodlands on all sides of the cemetery, so that views into the woodlands and northward to Cushing Brook may be maintained and enhanced.
- Develop a forest management plan for the area surrounding the cemetery that addresses the Woolly Adelgid infestation.
- Re-locate the existing signs so that visitors may enjoy unobstructed views into and across the cemetery landscape.
- Conserve the grave markers identified in the Gravestone Assessment as in need of treatment.

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RECOMMENDATIONS

Preservation Priorities

The following list organizes the preliminary recommendations of the *Landscape Assessment* section of the plan into a series of projects, and assigns a high, medium or lower priority to each. The highest priority projects include urgently-needed treatments, while the lower priority projects include aesthetic enhancements. Medium priority projects fall somewhere in between.

High Priority Projects

Hanover Center Cemetery:

- Continuing to care, on an annual basis, for the trees and ornamental shrubs, including removing any diseased or dying trees and removing overgrown gravesite plantings as they die.
- Commission a detailed evaluation of the historic trees and implement recommendations to save the best trees.
- Starting with Section G (northern end), begin a program of replanting that introduces a diversity of species, excluding species of Maple (*Acer*).
- Conserve the gravestones requiring treatment in Old Sections 1, 2, and 3, a total of 142 stones.

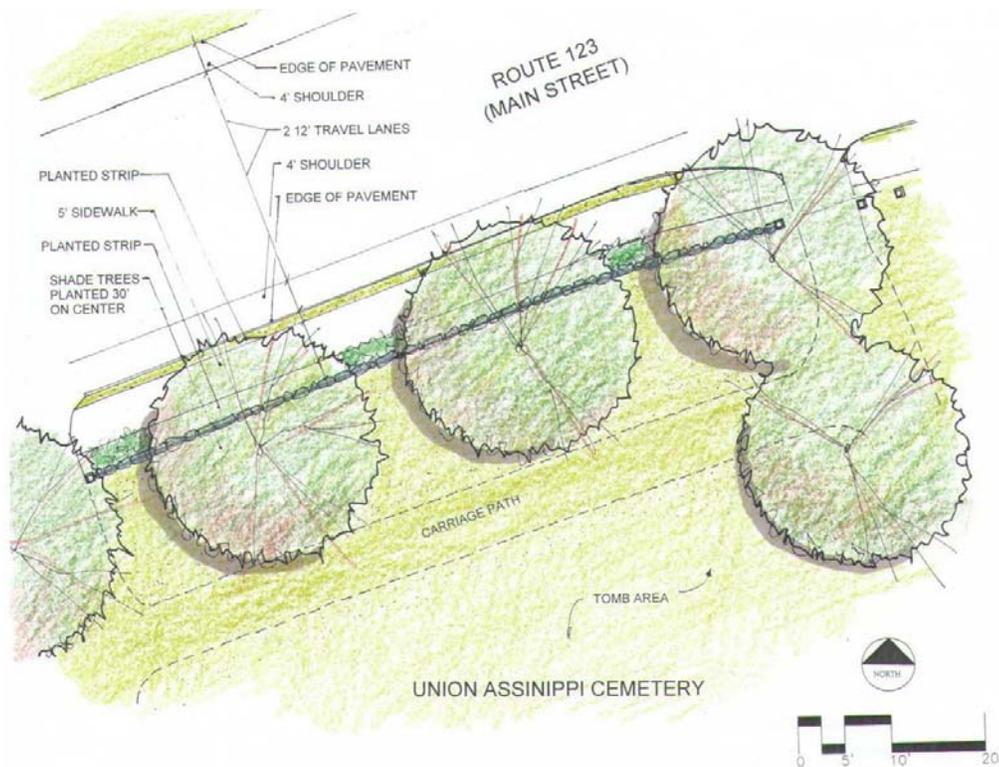
Union Assinippi Cemetery:

- Continuing to care, on an annual basis, for the trees and ornamental shrubs, including removing any diseased or dying trees and removing overgrown gravesite plantings as they die.
- Commission a detailed evaluation of the historic trees and implement recommendations to save the best trees.
- Conserve the gravestone requiring treatment in Section A, a total of 69 stones.

Medium Priority Projects

Hanover Center Cemetery:

- Undertake restoration of the cemetery's major masonry structures, including cleaning and re-pointing the Main Street border wall, cleaning and re-pointing the tombs, and rehabilitating the façade of the Town receiving tomb.
- Conserve the gravestones in need of treatment in Sections A through G, a total of 286 stones (this work may be undertaken as one project, or divided into several).



Rehabilitation of Union Assinippi Cemetery's Main Street edge will include creating a sidewalk between the cemetery wall and edge of pavement, re-pointing the wall, and planting regularly-spaced shade trees.

Union Assinippi Cemetery:

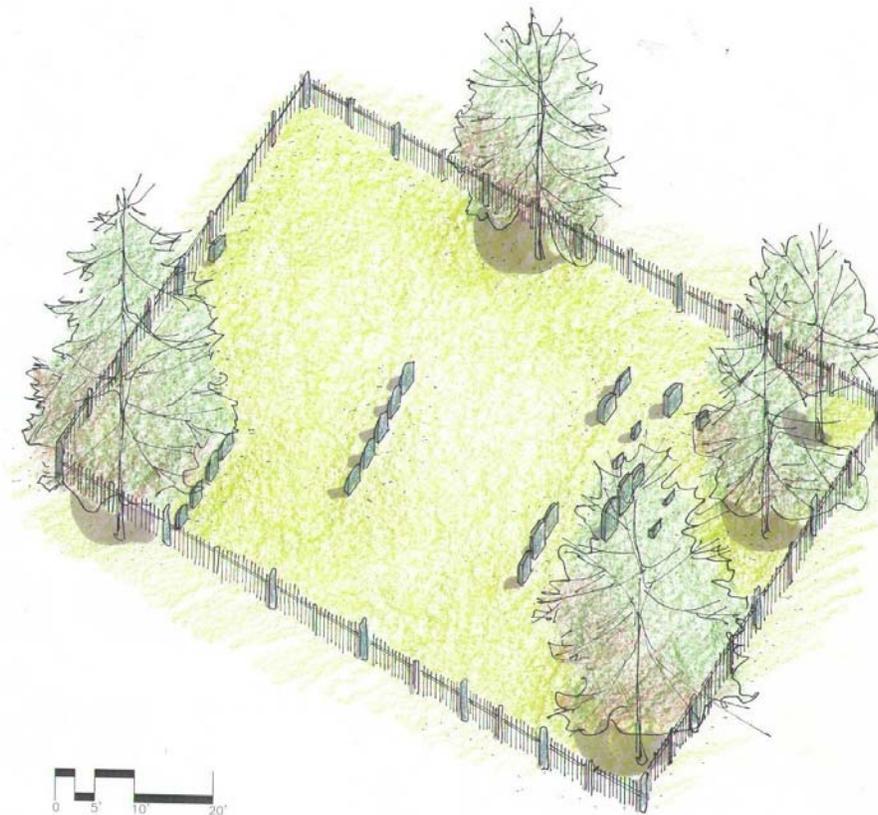
- Upgrade the cemetery's northern edge by re-pointing the wall, erecting a cast iron fence, and planting regularly-spaced shade trees. Create a sidewalk along Route 123 between the cemetery wall and road edge.
- As part of the project, negotiate with the Towns of Hanover and Norwell to provide signs along Route 123 to caution drivers about the impending cemetery entrance.
- Rebuild and/or repair any fallen or dismantled portions of the existing fieldstone wall along the cemetery's western, southern and eastern edges, and replace the chain link fencing along the west and south edges with black vinyl-coated chain link. Remove any invasive species from hedgerows, and replant with native species.
- Clean and stabilize the cemetery's masonry structures including the private tombs (rehabilitating the facades and wing-walls), and retaining walls.
- Replace any worn turf on the cemetery roadways with reinforced turf.
- Conserve the gravestones identified as needing treatment in Section B, a total of 35 stones.

West Hanover Cemetery

- Remove the existing 1" x 6" wood board fence with a clear-stained (or naturally weathered) picket-style white cedar fence, including a new, operable gate assembly.

(Note: the Town may want to pursue an alternative style of fencing, such as granite post and steel rail, for West Hanover Cemetery, as long as some type of gate assembly is included.)

- Improve cemetery signs, by (1) re-locating existing signs so that visitors can enjoy unobstructed views into the cemetery, and (2) providing an identification sign at the intersection of the right-of-way and Circuit Street.
- Develop a forest management plan for the area surrounding the cemetery to address the infestation of Woolly Adelgid.
- Conserve the 14 stones in West Hanover Cemetery identified as needing treatment.



A medium priority project involves replacing the existing make-shift fence surrounding West Hanover Cemetery with a cedar picket style fence, utilizing the existing granite posts as supports.

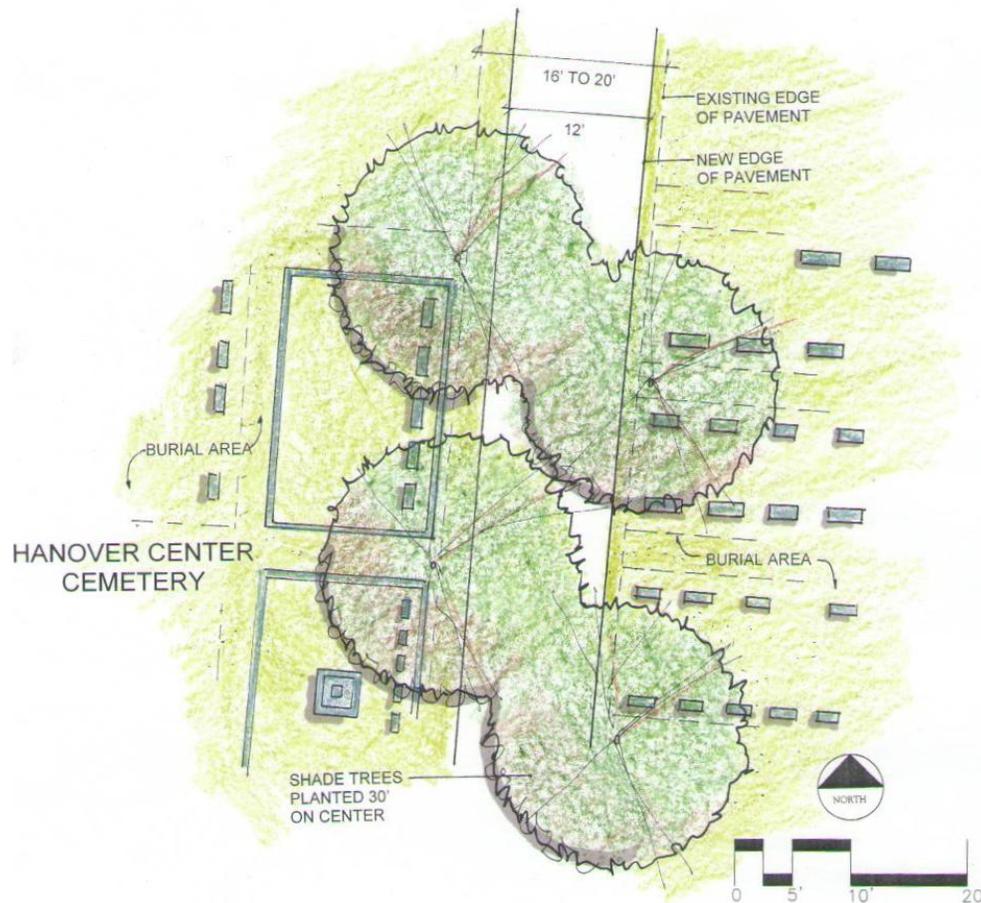
Lower Priority Projects

Hanover Center Cemetery:

- Restore the Silver Street and Main Street edges of the cemetery by (1) removing the PVC fencing and replacing it with a cleared stained, picket-style white cedar fence and (2) planting street trees, planted 40' to 50' on center, to the roadway edges (between the fence and edge of pavement). Include in this planting, a diversity of

street tree species, tolerant of urban conditions (refer to the *Management* section of this plan for suggested species)

- Upgrade the cemetery's interior roadways by (1) narrowing the widths to 12 feet; (2) reinforcing the turf shoulders with reinforced turf; (3) surfacing the roadways with oil and stone (gravel rolled into an asphalt emulsion) and (4) planting new shade trees on the shoulders.



A lower priority project involves the narrowing of the Center Cemetery roadways to 12', and planting new shade trees along the edges. This will allow the Town to introduce a variety of tree species, and provide more shade to the cemetery's dry, open areas.

Union Assinippi Cemetery:

- Develop a plan to clear views towards Third Herring Brook and Jacob's Pond, removing invasive species at the understory level.

West Hanover Cemetery

- Work with the Town of Hanover to clear understory from adjacent woodlands, opening views northward toward Cushing Brook.

Preservation Costs

The following list assigns a preliminary cost to each of the preservation projects listed above. Note that the cost figures are merely projections, intended as guidelines for the Hanover Cemetery Commission in setting fundraising goals. All figures are based on 2010 construction and conservation industries' rates, and do not include fees for surveying, design, engineering, bidding, overhead, profit and bonding. The Town should adjust the figures as design and engineering details for each project evolve. Projects marked by an asterisk (*) indicate tasks that could be undertaken by the Town of Hanover staff and/or volunteers.

High Priority Projects

Ongoing tree care (Center and Union) ¹	*
Tree inventory and evaluation (Center and Union)	\$ 25,000
Tree re-planting (Center)	\$ 30,000
Gravestone conservation in Old Sections 1, 2, and 3 (Center)	\$ 61,240
Gravestone conservation in Section A (Union)	\$ 34,150

Medium Priority Projects

Masonry restoration (Center)	\$ 60,000
Gravestone conservation in Sections A through G (Center)	\$155,530
Route 123 edge (Union)	\$ 72,000
Caution signs on Route 123 (Union)	*
Wall repair and new fencing (Union)	\$ 32,000
Tomb and retaining wall restoration (Union)	\$ 40,000
Turf roadway repair (Union)	\$ 10,000
Gravestone conservation in Section B (Union)	\$ 21,600
New perimeter fence (West)	\$ 8,700
Improved/new signs (West)	\$ 5,000
Forest management plan (West)	\$ 10,000
Gravestone conservation (West)	\$ 7,260

Lower Priority Projects

Silver and Main Street edge restoration (Center)	\$ 60,000
Interior roadway upgrade (Center)	\$ 48,750
Clearing of views (Union)	*
Clearing of views (West)	*

¹ To arrange for tree care on a regular basis, the Hanover Historical Commission should work with the Hanover Department of Public Works, making such work within the cemeteries part of the ongoing tree maintenance throughout the Town.

Preservation Resources

The following organizations can supply advice, guidance and technical assistance for preservation efforts in historic cemeteries. Those marked with an asterisk (*) provide financial assistance for preservation activities. Note that funding priorities, award levels and application requirements for the various funding organizations can frequently shift. The town should contact each source for up-to-date information, prior to making an application.

The Alliance for Historic Landscape Preservation. The Alliance is an organization of professionals dedicated to the preservation and conservation of historic landscapes in all their variety from formal gardens to public parks to rural and natural expanses. The organization provides a forum for communication and exchange among its members.

The Alliance for Historic Landscape Preservation
www.alhp.org

American Association for State and Local History. This national organization provides leadership, service and support for preservation and interpretation of state and local history, making the past more meaningful in American society. The organization's bookstore offers dozens of titles pertaining to historic preservation.

American Society for State and Local History
1717 Church Street
Nashville, TN 37203-2991
www.aaslh.org

The Association for Gravestone Studies. AGS is a non-profit organization dedicated to the study and preservation of cemeteries and gravestones. Services include publications, a monthly newsletter, quarterly journal and annual conference.

The Association for Gravestone Studies
Greenfield Corporate Center
101 Munson Street, Suite 108
Greenfield, MA 01301
www.gravestonestudies.org

Association for Preservation Technology International. The Association for Preservation Technology International (APT) is a cross-disciplinary, membership organization dedicated to promoting the best technology for conserving historic structures and their settings.

Association for Preservation Technology International
3085 Stevenson Drive, Suite 200
Springfield, IL 62703
www.apti.org

Northeast Chapter:

P. O. Box 20165
Greeley Square Station
New York, NY 10001-0002

www.aptnet.org

Cultural Landscape Foundation. The Cultural Landscape Foundation seeks donations and gifts from corporations, individuals, private foundations and government grants to increase awareness and public benefit for cultural landscapes listed on, or eligible for the National Register of Historic Places. Project support emphasizes interpretation, education, outreach, and public awareness.

Cultural Landscape Foundation
1909 Que Street, NW, 2nd Floor
Washington, DC 20009

www.tclf.org

Heritage Preservation.* This organization works to ensure the preservation of American's cultural heritage, offering programs and publications relating to care of books, documents, architecture, sculpture and other artifacts. Its *Save Outdoor Sculpture!* program is a grass-roots effort to help local organizations preserve sculpture and monuments.

Heritage Preservation
1012 14th Street, Suite 1200
Washington, DC 20005

www.heritagepreservation.org

Massachusetts Cultural Council.* As the state arts agency of Massachusetts, MCC provides grants to organizations in the arts, humanities, and interpretive sciences.

Massachusetts Cultural Council
10 St. James Avenue, 3rd Floor
Boston, MA 02116

www.massculturalcouncil.org

Massachusetts Foundation for the Humanities.* This state program of the National Endowment for the Humanities supports discussion groups, workshops, conferences, lecture series, radio programs, films, and video projects in the humanities.

Massachusetts Foundation for the Humanities
66 Bridge Street
Northampton, MA 01060

www.mfh.org

Massachusetts Historical Commission.* MHC is Massachusetts's state historic preservation office, maintaining the State Register of Historic Places, overseeing all nominations made to

the National Register of Historic Places, and providing funding for preservation activities of many types.

Massachusetts Historical Commission
220 Morrissey Boulevard
Boston, MA 02125
www.state.ma.us/sec/mhc/

National Center for Preservation Technology & Training.* A program of the United States Department of the Interior, National Park Service, the NCPTT awards grants for information management, training and research on technical issues in preservation, with an emphasis on archaeology, historic architecture, historic landscapes, objects and materials conservation and interpretation.

National Center for Preservation Technology & Training
645 University Parkway
Natchitoches, LA 71457
www.ncptt.nps.gov

National Trust for Historic Preservation.* The trust is the leading national advocacy organization for historic preservation, providing funding for preservation-related activities through several programs.

National Trust for Historic Preservation
1785 Massachusetts Avenue, NW
Washington, DC 20036
www.nthp.org

PreservatiON Mass. This state-wide non-profit organization is dedicated to preserving the state's cultural and historic resources through advocacy, education and community revitalization. In partnership with the Massachusetts Historical Commission, PreservatiON Mass sponsors an annual meeting – a day-long gathering with symposia and workshops, and an announcement of the Commonwealth's most endangered resources.

PreservatiON Mass
45 School Street
Boston, MA 02108
www.preservationmass.org

National Preservation Institute. This nonprofit organization provides preservation information, knowledge, and skills to train and guide the stewards of historic and cultural places through seminars in historic preservation and cultural resource management.

National Preservation Institute
P. O. Box 1702
Alexandria, VA 22313
www.npi.org

Society of Architectural Historians, Landscape History Chapter. This membership-based professional organization encourages research in landscape, gardening, and horticultural history, and promotes the dissemination of such research through publications, meetings and lectures. It also provides a forum for the exchange of ideas related to these disciplines through events and programs, and promotes conservation, preservation, and recording of significant landscapes.

Society of Architectural Historians
Landscape History Chapter
1365 North Astor Street
Chicago, IL 60610-2144
www.sahlandscape.org

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MANAGEMENT

This section of the *Preservation Plan* will help the Town of Hanover care for the landscapes at the Hanover Center, Union Assinippi and West Hanover Cemeteries. It includes strategies for the care of plants (trees and turf), cemetery roads and paths, stone structures (walls, copings, tombs), iron work, and gravestones. By following this guide, Town crews and cemetery volunteers will help ensure the long term health of these important historic resources.

Management Log

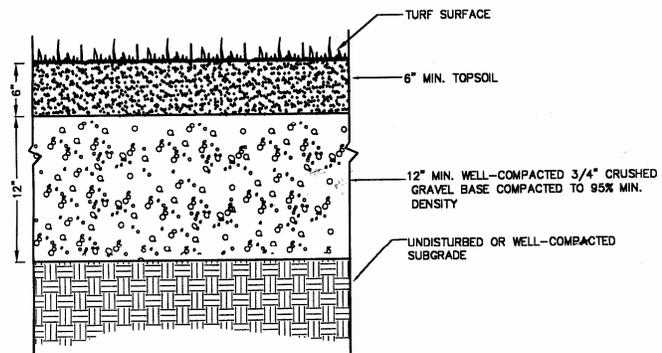
Before the Town begins caring for the landscapes, staff should set up a “management log,” or ongoing written record of inspections, repairs, and introductions of new features listed by date. The log should include methods and materials employed, as well as names and contact information for any specialists employed in the burying ground’s care. The log should be stored, in both electronic and manual format, in a secure location within the Hanover Department of Public Works Cemetery Department, or office of the Cemetery Commission and/or Historical Commission.

Roads and Paths

Roadway and path materials at Hanover’s cemeteries have been surfaced with bituminous asphalt (Center only) and turf (Union’s roadways and Center’s paths). West Hanover Cemetery contains no defined circulation routes. While turf roads and paths complement the historic character of the cemeteries, bituminous asphalt, added in the 1960s and 1970s does not. The following methods should be used when preserving and modifying the existing road and path surfaces.

Turf Roads and Paths

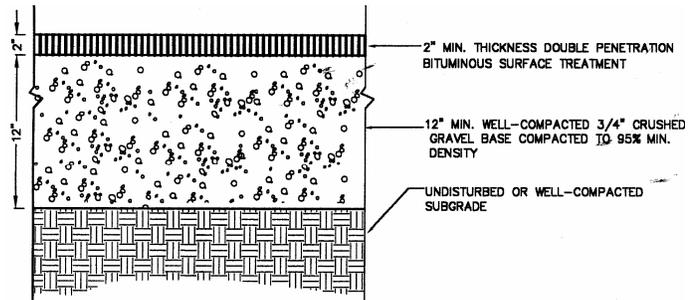
The Town should maintain the turf surfaces, inspecting them yearly for damage from vehicles and/or foot traffic. If the turf requires smoothing, the Town should level the damaged area with a layer of gravel, followed by a top dressing of topsoil and seed. Under no circumstances should the Town introduce new paved surfaces.



Reinforced paving detail, to be applied to the road shoulders (Center) and for patching of turf paths and roads.

Bituminous Roadways

As noted in the *Recommendations* section of this plan, the modern look of Center Cemetery's bituminous roadways may be transformed through two enhancement efforts, (1) narrowing the roadways to a maximum width of 12' and finishing the road edges with reinforced turf, and (2) applying an oil and stone (also referred to as chip seal) surface to the existing bituminous asphalt. To reinforce the turf, the Town should refer to the detail shown above. For an oil and stone surface, the following detail provides a guide.



Oil and stone (also referred to as chip seal) paving detail. 3/8" gravel is rolled into the top of existing bituminous asphalt roads with asphalt emulsion.

Structures

The *Landscape Assessment* and *Engineering Assessment (Appendix B)* of this plan detail individual approaches to treating the masonry structures at Center and Union Cemeteries, including retaining walls, free-standing walls, tombs, and plot details (copings). In general, however, the Town can implement the following management methods to prevent further deterioration:

- Clear volunteer tree, shrub, and vine growth from the walls and tombs. Allowing these to grow in and around these structures not only contributes to their decay, it creates an overall unkempt appearance, making the structures appear abandoned.
- Inspect the structures yearly for deterioration, such as cracking, leaning or leaking. If deterioration is detected consult a structural engineer or historic masonry restoration specialist to perform an inspection. Under no circumstances should Town staff and/or volunteers attempt to correct deterioration problems. For a list of stone masonry conservators, contact the Massachusetts Historical Commission at 617-727-8470.

Iron Work

Center and Union Cemeteries contain historic wrought and cast iron tomb door hinges and fencing. In addition, the *Recommendations* section of this plan proposes that a cast iron fencing be erected atop the northern border wall, replacing the contemporary ornamental iron fence. The Town should take the following measures to insure a longer life for these historic and reconstructed metal features.

- Maintain detailed records of all maintenance measures including inspections, routine care, and repair type.
- Inspect the fences twice yearly (in the spring and fall), looking for missing elements, fractures, weaknesses in the finish, structural damage, and surface dirt.
- Report any problems to an historic metals specialist, who can determine the appropriate treatment. For a list of qualified metals conservators, contact the Massachusetts Historical Commission at 617-727-8470.
- For simple treatments, such as removal of superficial dirt, wash the fence/gates with low-pressure water. Always test the washing method (including the water pressure) on a small, obscure piece of the fence, prior to removing all the dirt.
- When touching up areas where paint has been removed, follow instructions provided by an historic metals specialist for touch up of the fence.

Gravestones

Specific recommendations for treatment of each cemetery's gravestones appear in the *Gravestone Assessment (Appendix C)* of this plan. Conservation must be carried out by trained professionals only. Under no circumstances should untrained individuals attempt to repair stones, as improper treatment of stones can lead to further deterioration. Conservation professionals will employ treatments that help stabilize the monuments and markers for many, many years. However, because the stones lie exposed to weather and are vulnerable to vandalism, further deterioration is always possible. Should further damage occur, the Town should consult a stone conservation specialist, before undertaking any type of repair.

Plants

Existing Plants: Trees

The *Recommendations* section of this plan specifies that the Town hire an arborist to perform a detailed assessment of the trees at Center and Union Cemeteries. In the meantime, however, the Town can adhere to the following measures to stabilize them.

- Test the cemeteries' soil for quality in relationship to the mature tree population. The test will detect any soil deficiencies, and determine a remedy for correcting them.
- Provide and install cables as required. These will help stabilize any weakly-joined tree limbs.
- Treat trees with a systemic insecticide to minimize stress caused by leaf-feeding pests.

- Prune trees, removing all dead wood greater than ½” in diameter.
- Create rings of mulch around the base of each tree, as wide as possible and up to the diameter of the tree crown, taking care not to obscure gravestones.
- Where soil has built up at the base of trees, remove enough to expose the root collar.
- Continue to remove any dead trees or tree limbs.

Existing Plants: Shrubs

Shrubs in the cemeteries largely lie alongside individual gravesites and surround some family plots, providing families an opportunity for individual expression and personal commemoration. Unfortunately, gravesite shrub plantings are inconsistent with the cemeteries’ 18th and 19th century design (a concept introduced in the 20th century). Furthermore, they present long-term maintenance problems. They quickly become overgrown, obscuring grave markers and complicating lawn mowing. For the most part, families do not maintain shrub plantings, leaving the arduous pruning, shaping, and feeding tasks to cemetery maintenance crews.

As part of the planting policy for the cemeteries, the Town should adopt a “no new shrub” rule. As existing shrubs mature and die, they should be removed and replaced. Instead, the Town should ask families to donate trees to the cemeteries (Center and Union only), allowing for the replacement of dead trees with new, needed species. An exception to this rule should be the planting of larger shrubs at Center Cemetery, such as the *Chionanthus virginicus*, which contribute to the historic character and provide larger-scale color and texture. Placement of such large shrubs, however, should be at a generous distance (20’) from existing gravesites.

Existing Plants: Ground Covers & Ivies

Each cemetery contains several perennial ground covers, mixed in with turf, and these spread an array of textures and hues throughout the landscape. The Town should make an effort to retain and encourage the growth of these, as they minimize the need for mowing, cutting down on maintenance tasks. Each should be allowed to bloom, wither, and cast their seeds before they are mown, allowing them to multiply. Weed killers and other such herbicides should not be used where these plants are growing (some species may be classified as “weeds”).

Existing Plants: Turf

The following fertilizing and mowing guidelines will help maintain the turf areas, promoting a lush, green appearance and healthier, longer living plants.

1. Fertilize sparingly, as too much fertilizer can cause grass to grow too rapidly, requiring more mowing and making the plants more susceptible to disease. Not enough fertilizer can result in weaker plants that are more susceptible to disease or stress brought on by drought.

2. Apply fertilizer three times per year – around Memorial Day and Labor Day, and finally, around Halloween.
3. Do NOT fertilize in mid-summer. At this time of year, roots have become dormant. Fertilizer will cause the leaves to grow, making the plants less tolerant of drought, heat and disease.
4. Follow these fertilizing instructions:
 - *Memorial Day* – apply 1 pound of Nitrogen per 1,000 sf (with 50% of Nitrogen slow-release). Use an N:P:K Ratio of 14-14-14.
 - *Labor Day* - apply 2 pounds of Nitrogen per 1,000 sf (with 50% of Nitrogen slow-release). Use an N:P:K Ratio of 14-14-14.
 - *Halloween* - apply 1 pound of Nitrogen per 1,000 sf (with 75% of Nitrogen slow-release). Use an N:P:K Ratio of 28-3-9.
5. When mowing, remove no more than one-third of the height of the turf at one time, always leaving twice as much leaf height as is cut.
6. The best level for mown grass is 2 ½ inches, with 2 to 3 ½ inches the range.
7. It is best to mow lawns on an as-needed basis, not on a regular schedule, such as once per week.
8. When mowing around monuments and markers, Town crews should avoid contact between the equipment and stones. Slashes near the base of stones are one of the most common causes of breakage. Weed-whackers should be used sparingly, and preferably not at all.

New Plants: Trees

Center and Union Cemeteries contain an array of trees and herbaceous ground covers that flourish in the South Shore area of Massachusetts. When introducing new plants to the cemeteries, the Town should select species from a palette of plants that (1) are well-suited to Hanover’s climate, and (2) reflect the 18th and 19th century character of each cemetery. When ever possible, the Town should choose plants native to New England. A list of such plants and recommended planting methods follow (*indicates species native to New England). *Note: new tree plantings are not recommended for the interior of West Hanover Cemetery.*

Evergreen Trees

Picea abies	Norway Spruce
Picea glauca	Black Spruce
Pinus banksiana*	Jack Pine
Pinus rigida*	Pitch Pine

Thuja spp.*

Red Cedar, White Cedar

Shade Trees

Acer rubrum*	Red Maple
Amelanchier canadensis*	Serviceberry
Fagus americana*	American Beech
Koelreuteria paniculata	Golden Rain Tree
Liquidambar styraciflua*	Sweetgum
Liriodendron tulipifera*	Tulip Tree
Quercus alba*	White Oak
Quercus robur	English Oak
Quercus velutina	Black Oak
Salix Babylonica*	Weeping Willow
Sophora japonica*	Scholar Tree

Street Trees (Main Street, Silver Street, Route 123)

Ginkgo biloba	Maidenhair Tree
Platanus occidentalis*	Sycamore
Quercus palustris*	Pin Oak
Tilia europaea	European Linden
Ulmus americana ‘Liberty’	Liberty Elm

Ornamental Trees & Large Shrubs

Note: the following ornamental species are appropriate for Center Cemetery’s newer sections (A through G) and Union Cemetery’s section B

Acer palmatum	Japanese Maple
Cedrus libani (evergreen)	Cedar of Lebanon
Cercis canadensis*	Redbud
Chionanthus virginicus	White Fringetree
Cornus florida rubra	Pink Flowering Dogwood
Cornus mas	Cornelian Cherry Dogwood
Davidia involucrata	Dove-tree
Franklinia altamaha	Franklinia
Magnolia acuminata	Cucumber Tree Magnolia
Stewartia malacodendron	Stewartia

New Plants: Ground Covers

As previously mentioned, ground covers add beauty to each cemetery landscape and minimize the need for mowing. In shady areas, the Town should select shade-tolerant species, indicated by asterisks, below.

<i>Ajuga reptans</i>	Bugleweed
<i>Arctostaphylos uva-ursi</i>	Bear Berry
<i>Asarum canadense</i> *	Wild Ginger
<i>Cornus canadensis</i> *	Bunchberry
<i>Erythronium albidum</i> *	White Trout Lily
<i>Gallium odoratum</i>	Sweet Woodruff
<i>Housatonia caerulea</i>	Bluets
<i>Phlox stolonifera</i> *	Creeping Phlox
<i>Phlox subulata</i>	Moss Pink
<i>Potentilla tabernaemontani</i>	Spring Cinquefoil
<i>Sedum</i>	Stonecrops
<i>sp. reflexum, sp. caucicola,</i>	
<i>sp. anglicum, sp. brevifolium</i>	
<i>Thymus serpyllum</i>	Creeping Thyme
<i>Viola Canadensis</i> *	Canadian Violet
<i>Waldsteinia ternata</i>	Barren Strawberry

*Native ground covers.

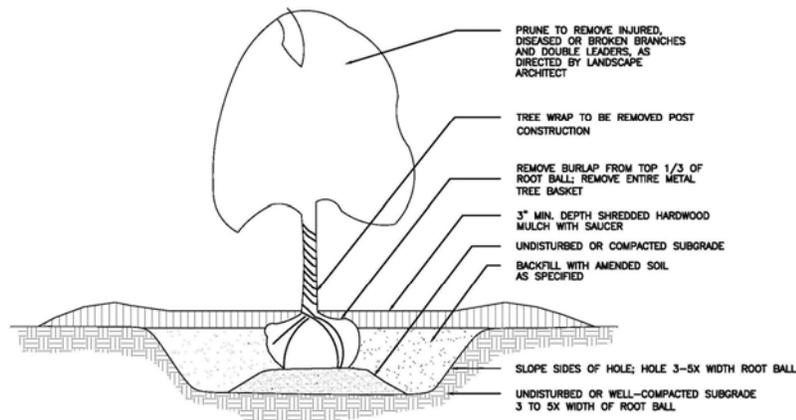
New Plants: Turf

In areas where ground covers are inappropriate or not preferable, the Town should apply seed and cultivate turf. Where necessary and appropriate, aerate and top-dress any compacted areas, prior to applying seed. The following measures will help insure long-lived, healthy turf areas:

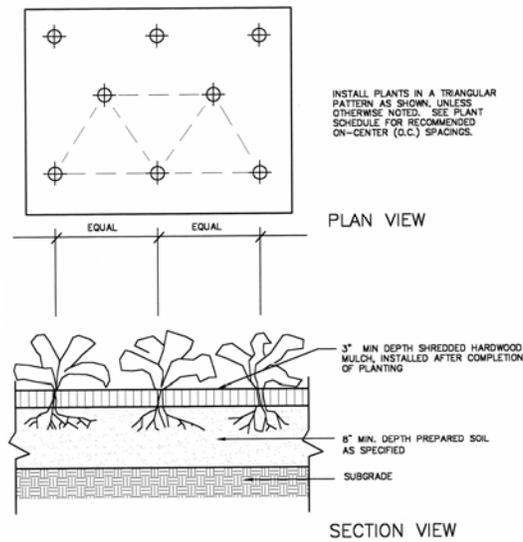
1. A seed mixture, consisting of Kentucky bluegrasses, fine fescues and perennial ryes is best, as it minimizes the amount of mowing (each grows at a different rate) and provides a consistent green appearance. Using a mix will avoid the problems arising from mono-cultural plantings. A local seed market will offer mixes appropriate for the South Shore area.
2. Once applied, seed should be covered with straw mulch. Hay should be avoided as it encourages weed growth.
3. The seeded area should be watered as frequently as possible to encourage germination (approximately one inch of rainwater per week).
4. Do not use herbicides to control weeds when the turf is becoming established.
5. Once the turf is established, remove the straw mulch and follow the instructions listed above for ongoing management.

Planting Methods

When introducing new plants to the burying ground, the Town should adhere to industry standards for planting of trees, herbaceous perennials and ground covers. At a minimum, the Town should adhere to the recommendations included in the following planting details.



Tree planting detail. Note that the same general planting guidelines may be used for evergreen trees. New trees with a caliper greater than 3" to 3.5" are not recommended, as they require many years to acclimate to new settings, and often do not survive. Source: Martha Lyon Landscape Architecture, LLC.



Ground cover planting detail. These low-growing species are recommended for each of the cemeteries, to be used in lieu of turf, for ease in maintenance and for the color and texture they provide in the landscape. Source: Martha Lyon Landscape Architecture, LLC.

Management Resources

Culina, William, Native Trees, Shrubs & Vines. Framingham, MA: The New England Wildflower Society, 2002.

Dirr, Michael A., Dirr's Hardy Trees and Shrubs, An Illustrated Encyclopedia. Portland, OR: Timber Press, 1997.

Favretti, Rudy J. and Joy Putman Favretti, Landscapes and Gardens for Historic Buildings, Second Edition. Nashville: The American Association for State and Local History, 1991.

Mack, Robert C., AIA and Anne E. Grimmer, Historic Preservation Brief Number 1, Assessing Cleaning and Water Repellant Treatments for Historic Masonry Buildings, US Department of the Interior, National Park Service, 2000.

Mack, Robert C., AIA and John P. Speweik, Historic Preservation Brief Number 2, Repointing of Mortar Joints in Historic Masonry Buildings, US Department of the Interior, National Park Service, 1998.

Strangstad, Lynette, A Gravestone Preservation Primer. Nashville, TN: The American Association for State and Local History, 1988.

Management Schedule

January - March	<ul style="list-style-type: none"> ▪ If removing snow, minimize (or eliminate altogether) the use of salt.
April	<ul style="list-style-type: none"> ▪ Inspect the walls, tombs, iron work and gravestones for damage that may have occurred over the winter. Consult a specialist about repairing any major damage. ▪ Remove leaves from inside cemetery walls and fences ▪ Inspect turf roads and paths for damage that may have occurred over the winter. Patch accordingly.
May	<ul style="list-style-type: none"> ▪ Inspect trees for damage that may have occurred over the winter and note any needs for pruning and removals. ▪ Begin mowing turf on an as-needed basis to a height no less than 2-1/2 inches. ▪ Around Memorial Day, fertilize turf areas (14-14-14). ▪ Plant new trees and groundcovers, and seed grassy areas, as required.
June	<ul style="list-style-type: none"> ▪ Conduct pruning and removals of trees. ▪ Continue mowing turf on an as-needed basis to a height no less than 2-1/2 inches. ▪ Continue to plant new trees and groundcovers, and grassy areas, as required.
July	<ul style="list-style-type: none"> ▪ Continue mowing turf on an as-needed basis to a height no less than 2-1/2 inches. Suspend mowing during hot, dry periods.
August	<ul style="list-style-type: none"> ▪ Continue mowing turf on an as-needed basis to a height no less than 2-1/2 inches. Suspend mowing during hot, dry periods. ▪ Around Labor Day, fertilize turf areas (14-14-14).
September	<ul style="list-style-type: none"> ▪ Continue mowing turf on an as-needed basis to a height no less than 2-1/2 inches. ▪ Resume planting of new trees and groundcovers, and lawns, as required ▪ Inspect walls, tombs, iron work and gravestones for damage that may have occurred over the summer. Consult a specialist about repairing any major damage.
October	<ul style="list-style-type: none"> ▪ Around Halloween, fertilize turf areas (28-3-9).
November - December	<ul style="list-style-type: none"> ▪ If removing snow, minimize (or eliminate altogether) the use of salt.

HISTORICAL CHRONOLOGY

General

1642. A second or “South Parish” formed in the southern part of Scituate. The first pastor was ordained in 1645.
1727. The Town of Hanover was established, incorporating a portion of the western part of South Parish of Scituate, including Assinippi, and the eastern part of Abington. Third Herring Brook formed the eastern boundary, near where Joshua Jacobs and Dr. Joseph Jacobs, sons of David Jacobs (of Greenbush, Scituate) built saw and grist mills at the pond in Assinippi. (The mills stood for many decades, with the sawmill burning in 1920.) Washington Street, which runs north to south through Assinippi, was the oldest and most frequently traveled road in Plymouth County between Boston and Plymouth until the railroad came (mid 1800s).
1754. 1/10th of the land in Hanover was annexed by Pembroke (this land is now part of Hanson).
- Mid 1800s. The Old Colony Railroad was established, and a branch was extended to Hanover.

Center Cemetery

1727. The Town of Scituate made a grant from its Common Lands of ten acres for a training-field and a burying-ground. This lot was divided into two parcels, one of 7-1/2 acres for the training-field and the other of 2-1/2 acres for the burial-ground. “Later the town voted to give to John Rogers a deed of seven and one-half acres, which was not included within the borders of the present cemetery, and to take in return a deed of three acres, which was probably the basis of the present cemetery.” (Dwellely & Simmons, p. 276).

Dwellely & Simmons state that it is doubtful that the town ever occupied any part of the present cemetery for a training-field, although a “Gun House” once stood on the lot near Main Street, to the east of the tombs.

Dwellely and Simmons state that “probably the graves unmarked in the cemetery exceed in number those that are marked.” The first known burial occurred the year of the cemetery’s founding, that of Mr. Thomas Randall, d. 1727.

1788. David Stockbridge presented the town with a parcel of land containing 1-1/4 acres, located adjacent to the northwest part of the old cemetery.
1790. The Seth Brooks Tom is dated 1790, although the precise date of its construction is not known.
1806. The John Stetson & Israel Perry Tomb is dated 1806, although the precise date of its construction is not known.
1808. The town voted to purchase a hearse.
1844. The town passed a vote to “raise a Committee to cause to be built a tomb and to exterminate the bushes on the Burying Ground.” The Committee’s recommendations were not acted upon until the 1860s, and up until then, the older graves were covered with “heaps of small stones” and low bush blueberries.
1845. The tomb was erected and bears this date.
1850. John Barstow gave the town a lot of land adjacent to the southeast part of the old cemetery.
1852. The Michael & Robert Sylvester tomb is dated 1852. The precise construction date of the tomb has not been documented.
- 1850s-1870s. The town invested in aesthetic improvements at the cemetery, including planting ornamental and other trees, painting the fence, painting the gates, painting and repairing the hearse, and making general improvements. By 1910, Dwelley & Simmons reported that “now there are few country cemeteries that can surpass our own for beauty of situation or that show greater attention or more modest, beautiful grounds.”
1876. The town report noted that trees were planted in vacant spots on the border thereof, and that “the grounds look neat and pleasant.” The Center Cemetery Record Book (February, 1858 – January 1879) noted that until 1876, all lots in the cemetery were free to all.
1878. The cemetery committee noted that a plan of the cemetery had been prepared and the unoccupied ground was laid out into lots. They were concerned that all of these lots would be taken up within the next three to four years. Also in this year, the Soldiers’ Monument was placed at the triangle at Silver and

Hanover Streets. It was designed by J. Williams Beal, who carved it out of Concord Granite, and used Quincy granite for the perimeter curbing.

1880. Funds were paid out to “point wall.”
1881. The town report stated that arrangements had been made for the purchase of about 3 acres on the north side of the old ground.
1882. The town report stated that the cost of enlargement and re-grading was more than anticipated, but the ground had been graded to accommodate needs of the town for several years. The upgraded portion has been made attractive by clearing of underbrush and surplus trees. Expenses included surveying, writing deeds, fencing, grading, and working on driveway.
1885. The town painted the fence
1888. The town constructed new fencing. The town report noted that five Trust Funds were being maintained, and they belonged to the Hatch, Curtis, Cutler, Turcot, and Ripley families.
1889. The town report included a letter from Joseph H. Curtis, a landscape engineer. He wrote:

“The tendency in the treatment of burial-grounds is steadily towards greater simplicity and naturalness, even in the neighborhood of large cities where land is scarce and dear, and as large a portion of the surface as possible must be made available for burial. The rectangular system in all new grounds had long been done away with, and the enclosure of the lots by iron fences, stone curbing, or by raised embankments of earth, has in its turn given place in the best examples of modern grounds to the absence of visible boundaries of individual lots. In a country district this treatment is especially desirable and fitting with all its surroundings. The less the surface has to be disturbed by cuts and fills for avenues, paths and lots, the more economical is the construction and maintenance of the grounds, and the more satisfactory the result.

“The ideal to be attained should be as far as possible to have the avenues and paths conform by curves of otherwise to the surface of the ground so as to avoid unsightly cuts and fills, and to have a sufficient extent of ground so that the steep hillsides, interior spaces and comparatively unavailable ground can be left in its natural condition; that portion of the ground devoted to lots can be graded as far as possible to conform to the natural surface without elevation of lot surfaces or depression of intervening spaces and the corners of the lots defined by stone bounds set nearly flush with the ground. With land at the moderate price in the vicinity of your ground it would be a vital mistake not to secure a generous quantity, at least from ten to twenty acres; even on the

score of economy I should urge it, as its first cost bears but a small proportion to the future expenditures upon it, and these expenditures would be much less when you are only obliged to use that portion of the surface which is naturally and easily adapted for such use and you do not have to spend large sums in making over surfaces which had much better be left in their natural condition.

A good liberal addition being secured, I should advise the laying out carefully of a main avenue, constructing the whole or such part of its as is needed, and the staking out of enough lots for present needs bordering upon it, but reserving such spaces for connecting avenues and paths as after careful study shall be deemed to be desirable; then lots as advised above should be graded as far as possible to conform to the natural surface with as liberal spaces between, and especially in their rear, as can be allowed, to afford space for trees and shrubs which are in most cases objectionable within the lots themselves. The avenues I should make twenty two feet from lot front to lot front, divided as follows: six feet of grass on each side and ten feet of gravel in centre; the wider paths should be fourteen feet from lot front to lot front, divided into four feet of grass on each side and six feet of gravel, or some of these paths can be all grass.”

1891. The town purchased 12.6 acres from Joshua Studley and 3.8 acres from Mrs. Andrew T. Damon. The heirs of Mrs. Eliza Salmond gave the town .3 acres in the same year. These parcels were all located at the northern end of the old cemetery, and the addition of them brought the total cemetery acreage, in 1910, to 25.6 acres. Studley stated that he would not sell the land to the town unless the town built him a road to his woodlot. In the same year, the town reportedly paid \$260 for the road work.
1892. The town made payments for a survey and plans, setting of stone bounds, sodding, grading and moving. They began selling lots immediately.
1893. In this year, survey work continued, and gravel was purchased (presumably for road work).
1894. The cemetery committee reported that the cemetery had been improved by the building of drains and catch basins in the drives, and a plot of land had been cleared ready to be marked into plots. 50 plots were ready for sale.
1895. The town worked to construct a drive in the new section, a continuation of the existing drive, running approximately 1/6 mile long to the street.
1896. The town report stated that the “old boundary wall” bounding the cemetery from the land of C. G. Perry to a point just above the old tombs was lacking point (pointing was almost gone). The cemetery committee recommended an appropriation to have the wall re-pointed.

1898. The town report listed 16 “Trust Fund Lots” at Center Cemetery.
1899. The cemetery committee requested funds to set out shade trees in Center Cemetery.
1900. Hay was gathered and sold.
1901. The town report noted that approximately $\frac{1}{4}$ of the 12.6 acres had been cleared and prepared for burial purposes.
1904. One cemetery commissioner lobbied the town for cutting of underbrush and undesirable trees through the cemetery, making it look park-like while awaiting plotting.
1905. The cemetery committee recommended that the town build a suitable receiving tomb – 12’ x 15’ with a clear height of 7.5’. The committee had been asked to have a map of the Old Section made with graves located, and the committee asked for funds to do so.
1906. Clearing at the north side of the cemetery continued.
1910. The cemetery committee advocated for damming Molly Brook in order to create a small pond, and began work on it. They stated, “this formation will add to the beauty of the grounds and prove a blessing in many ways.”
1912. The cemetery committee reported that they had cleared a large piece of stump land at the northerly extremity of the “yard” which will surrender beautiful burial spots. Land south of the tomb was graded to even up the grade on both sides of the tomb. This improved the look of the tomb and its surroundings. They also began work on a drive through the woods to encircle the pond and rim the brook. Grasses were mowed and the hay was taken to the Town Farm.
1913. The town built the drive across the entire piece of northerly land and had the land partially plotted. They also hired an “expert cleaner and re-surfacer of marble and granite and had him clean and re-surface all stones and curbing on the trust lots.”
1914. Work continued on the proposed road to the brook, and give new maple trees were planted in the new section.
1915. The committee stated that they were planning to use a willed gift to right some unsightly stones. The new road bordering Molly Brook was completed and was

ready for gravelling. The committee noted that a cement walk leading to the tomb is needed.

1918. The town graveled the drives, and planned for drainage and outlet basins. Moths had killed a number of the oak trees in the cemetery. The cemetery commissioners also noted that due to the Spanish Flu epidemic, a number of new burial lots were needed.
1922. The cemetery committee recommended that the fence around the cemetery be painted, and noted that the pump near the gate needed repair (although it was not an official cemetery pump, it did supply water to the cemetery).
1923. The cemetery committee noted that the tool shed had been repaired, and that it had become a “snug little building.” The town repaired and re-painted fences. The town reported that the Trust Fund Lots made up the base of the cemetery.
1924. The town report listed 104 Trust Funds at Center Cemetery.
1925. Clearing for more lots was recommended, and more clearing took place in 1926.
1927. The town report noted that the cemetery was getting larger every year, and that the town was maintaining 160 Trust Fund lots. Each lot had to be fertilized each year.
1929. The town report noted that the surface of the drives was worn and needed repair.
1930. Money was appropriated to install running water in the cemetery, and the water was installed the following year.
1932. The stone wall on the Main Street side was repaired. A plan was made to paint the wooden fence on the Silver Street side.
1933. The town hosted two WPA projects with a total of 17 workers. These involved upgrading the Silver Street triangle, and reseeding in the old section.
1936. The roads in the cemetery were reported to be a continual problem – washing away on a regular basis.
1937. The cemetery committee set out a program of improvements for the cemetery that included (1) increasing the price of cemetery lots; (2) making the drive from Main Street to Silver Street a hard surface; (3) making 20 to 25 lots

available for sale at all times; (4) creating a new plan of the cemetery, and a lot-by-lot card inventory of existing plots; and (5) all work on the cemetery be done by town employees under the direction of the cemetery committee or a superintendent.

1939. The town report stated that Center Cemetery maintained 229 Trust Fund lots. It also noted that money in the trust accounts was not enough to care for the lots, and asked that lot owners and interested people contribute to their care. The cemetery committee noted that it wanted to make the main road a “black road.” It also reported that the old part of Center Cemetery was in rough condition and was badly in need of better care.
1940. The town report stated that the cemetery held six water fountains and needed six more, and that the drives were still in need of improvements. The report listed 250 Trust Fund lots at Center. An inventory of existing graves, involving the completion of cards for each lot, was started in 1939, but not completed.
1945. The cemetery commissioners noted that there had been a decided improvement in the old part of the cemetery that borders on Main Street. The graves had been filled, the tall grass and shrubbery mowed, and stones straightened and aligned. Cement bases had been put around stones to make them permanent. A power mower was purchased, and the committee once again suggested that at least one drive be surfaced with tar.
1946. The town spent funds to level and line up stones in the old part.
1948. The cemetery commissioners reported that they had “*nearly completed the plot of new lots with the exception of the drives, which consist of one through the center of the plot, and one around the outer side to the street. These new lots are all ten by twenty feet with a six-foot path between each two rows of lots. All of the older lots have had a four-foot path all around which seems to have wasted a great amount of land.*”
1949. The cemetery commissioners reported that they planned, in 1950, to place out maple trees, and in 1950, they set the trees.
1950. The cemetery commissioners reported that they had had the whole cemetery surveyed and all put on one map, and that the map included land which was not as yet laid out in lots. Several copies were made, and three were placed in the vault in Town Hall.
1951. The cemetery commissioners noted that the cemetery needed a new fence running from Main Street to the top of the hill. It was wood and was in very

deplorable condition, and the expressed interest in having the entire cemetery fenced. They also trimmed out land on the cemetery's north side.

1952. The commissioners cut pine logs from the northern end of Center Cemetery. They also began advocating for the use of cement burial vaults.
1953. Once again, the commissioners made a plea for erecting a new fence, claiming that 320' needed replacement, and recommending that 4' chain link be used. They also expressed an interest in black-topping the main drive from Main Street to Silver Street.
1954. The commissioners secured a wire fence for the Silver Street edge, and expressed desire to build the same around the entire cemetery. During 1953 and 1954, hurricanes uprooted several trees. Twenty-three oaks lost their tops and several monuments toppled. Two to three marbles were broken in the older part of the cemetery.
1955. The commissioners reported that there was a lot of damage from hurricane Carol, which hit in September of 1954, but few stones were damaged. They planted new maple trees in the new section to replace the older trees that did not survive.
1956. Mr. J. J. Clark gave land to make the cemetery larger.
- 1957 & 1958. New burial areas were being developed and new trees were being set to beautify the new area.
1960. Trust funds for Center Cemetery totaled \$58,486.98.
1962. The commissioners repaired and re-painted the fence along Silver Street.
1963. The commissioners rebuilt and repaired gravel roads.
1964. The commissioners planted six maples trees in the old section and 18 mountain ashes in the new section.
1965. The commissioners began tarring roads.
1966. The commissioners reported that 2/3 of the roadways have been paved, and a new cement block and wooden roof-ed building has been completed and was in use.
1967. The commissioners re-surfaced all tarred roads.

1968. The commissioners tarred more roads, and reported that in the following year, all roads should be tarred.
1971. The commissioners continued to black-top roads.
1972. One more road was black-topped in the old section.
1973. A cemetery division was created within the Department of Public Works, and the commissioners reported that Center Cemetery was largely complete.
1978. An addition to the cemetery maintenance building was completed.
1980. The operation of the cemetery was consolidated into the highway department.
1981. The town was investigating the idea of a pet cemetery (this does not appear to have been implemented).
1982. The roads in the new section were sealed.
1983. A new flagpole was erected
1984. A topographical map of the cemetery property along Silver Street was prepared to provide a base for cemetery master plan development.
1985. A landscape architect was commissioned to prepare a master plan for the undeveloped section of cemetery land.
1986. The master plan was completed. An effort was launched to replace the wood picket fencing, and completed, in part, between Main and Silver Streets.
1987. Work began on the development of a master plan
1988. The fencing project was completed along the entire run of Silver Street.
1990. Clearing of land for a new section began.
1994. Road construction began in the southwest corner of the new section of the cemetery.
1995. Repairs were made to the cemetery maintenance building.
1997. The town banned dogs from the cemetery.

2002. All roads were paved throughout the cemetery and replacement of the wood picket fencing with vinyl began. Approximately 50% of Silver Street's fence was replaced.
2004. The vinyl fencing project was completed.

Union Assinippi Cemetery

1766. The people in the westerly section of the South Parish of Scituate began to desire a separate Society within their own vicinity, and petitioned the South Parish to be set off by mutual consent. This area was known as Assinippi, the Indian name for "rocky water" referring to a branch of the Third Herring Brook. In the 19th century the name was shortened to "Snappet." The people submitted petitions multiple times over the course of 50 years.
1789. Dwelley and Simmons noted that the Assinippi cemetery had been started in approximately this year, and that it had been used largely by families in that section of the town. However, a deed to the cemetery property, granted by David Jacobs, is dated 1792.
1792. As early as this year (and likely earlier) the people in the western section erected a meeting house two rods (32 feet) to the north of the town line. Wood for the structure likely came from the Jacobs's saw mill. The design was plain with a gallery and windows on two levels.

David Jacobs deeded land to the proprietors of the burying ground. *"In consideration of the sum of nine pounds of money to me in hand paid by Rebecca Morton, Hezekiah Stoddard, Jr., Susanna Jacobs, Jacob Silvester, Thomas Harrow, Jr., Joshua Jacobs, Joshua Jacobs, Jr., David Prouty, James Jacobs, James Jacobs Jr., Noah Barrell, William Barrell, Benjamin Bowker, William Prouty, Enoch Collamore, Adams Bailey, John Humphries, _____ Silvester, Jr., Luther Turner, Joseph Jacobs, Abel Harrow, Benjamin Farrar, James Barrell, Jr., James Barrell, John Clapp, John Clapp, Jr., Rovert Northey, James Cushing, Jr., Stephen Dammon Jr., John Wright, Peleg Simmons, Stephen Dammon, Bradley Jacobs, Joshua Dammon, ALL OF SCITUATE, and Nathaniel Jacobs, Michel Clapp and Elisha Barrell all of Hanover in the County of Plymouth Yeomen and Spinsters."*

"The receipt whereof I do hereby acknowledge do hereby grant sell and convey unto them the Proprietors a certain piece of land lying in Hanover in said County of Plymouth for the site of a burying ground, to them, their heirs and assigns forever, Bounded as followeth....Being also subdivided into forty six lots, and likewise a piece of common ground not being subdivided as the other. Each of said lots being thirteen links in width

east and west and three rods in length being nearly north and south, each of said lots being numbered and marked. Rebecca Morton's being number one beginning at the northeast corner of said burying ground (the remaining 22 lots are identified). The twenty three lots before mentioned are the front tier of lots in said burying ground. The second tier of lots number one butting on the south end of number 23 in the front."

To have and to hold the same to the above named Proprietors to their only proper site and behold forever as a burying ground with the privilege of _____ and _____ to and from said burying ground through the land of the said David Jacobs lying to the north of said ground, where most convenient for said purpose. The above said David Jacobs reserving for himself and his sons David and ____ Jacobs three lots in said burying ground being Number fifteen, sixteen and seventeen in the front tier of lots and likewise reserving the above name lots to hold in Proprietorship with an equal share of the common ground, and other lots not disposed of and also reserving the improvement of said burying ground for mowing or pasturing with sheep or your cattle, to him his kin and assigns forever."

And to the said David Jacobs to covenant and agree with the before names thirty-seven Proprietors that I am lawfully seized in fee of the aforesaid premises that I have good right to sell and convey the same unto the before names thirty-seven Proprietors their heirs and assigns forever, and I the said David Jacobs and my heirs will warrant and defend the same unto the above name thirty-seven Proprietors their heirs and assigns forever from and against the lawful[] claims and demands of all persons whatever.

In testimony whereof I the said David Jacobs have here unto set my hand and seal this thirtieth day of October, one thousand seven hundred and ninety-two.

- 1807. The Proprietors voted to grant a covenant to building a tomb near Jacobs Mills (on lots 12 and 13) to Paul Curtis and John Clapp, measuring 18' long, 8' wide, and with a door facing south. Curtis was to improve the eastern side of the tomb site, and Clapp was to improve the western side.
- 1812. The people of the westerly section petitioned the General Court for an Act of Incorporation as a Universalist Society, and the petition was accepted. The Society contained 35 members, and it was one of the first churches of this faith to be established in Plymouth County.
- 1813. The Proprietors voted to build a new gate in the front of the burying ground, and to paint the gate.
- 1825. The Proprietors voted to place stakes and the corners of each lot.
- 1832. A second church structure was constructed in the same location. This church had a steeple with a bell that pealed to draw parishioners to services. When the

church was dedicated on October 31st, Rev. Hosea Ballou spoke. Ballou was one of the founders of Universalism in the United States.

Also in this year, the Proprietors sold to John Lyman, the rights to build a tomb, adjacent to an existing tomb owned by Samuel Randall. A site was also sold to Thomas Jones.

1833. The Proprietors voted to purchase the land that belonged to Rebecca Briant, enclosed in the burying ground near the Jacob Mill Dam.
1849. South Scituate (later Norwell) was established, having been separated from Scituate. The Proprietors Book entry from this year noted that the Proprietors met in October to see whether they would convey their interest in the burying ground to the Union Cemetery Association. The entry stated that the Proprietors voted to unite with the UCA. Records of the Union Cemetery Association, Hanover, Massachusetts stated that on October 4, 1849 the proprietors had formed a society for the purpose of providing, establishing, and preparing a cemetery or burial place for the dead in Hanover in South Scituate, [and that] they [were] desirous of forming themselves into a corporation. They voted to form the Union Cemetery Association.”
- On October a meeting of the newly formed Union Cemetery Association (UCA) reported that a committee was set up to provide a suitable lot, and in November, this committee reported that “Mr. Killam will set about ¾-acre south of the “old yard” and a narrow strip on the east side.” As part of the transaction, Killam reserved two tomb lots next to road near the tomb of L. R. Jacobs. The committee voted to purchase this land. In December, the UCA voted to move the back wall of the cemetery.
1851. The UCA voted to move the wall on the easterly side of the burying ground, eastward to the line of the new ground. A committee was set up to estimate the cost of building a fence. Elijah Clapp and Jonathan Bowker presented a model for building the “front tombs.” Mr. Clapp and Mr. Bowker were granted permission to make a partition on the parking wall on the south side of their tomb.
1852. The UCA account book showed an expense for laying a wall. The committee on fences reported in favor of a stone fence – two courses and a coping – made of dimension stone, at least three feet high. The UCA voted to build this fence in front of the cemetery, and to have it completed by October 1, 1852. They also voted to give current lot owners alternate lots if their existing lot stood within the new roadway or fence line.

1853. Barry wrote his historical sketch of Hanover in this year, and reported that the cemetery in “Snappet” was in need of attention, “as the fences are fallen, and the ground is bare, and destitute of shrubbery.” Also in this year, the UCA voted to hire Walter Bates to build the stone wall, and voted to have the ground graded properly to receive the wall (the UCA report noted that they could not find anyone to do this in 1852).
1854. The UCA set up a committee to oversee the fence project, and collected money for the project.
1857. The UCA voted to ornament the cemetery with trees during the “present” season, at an expense not exceeding \$25.00. They also voted to arrange for chains to be put across the stone posts by the side of the “gaits” (gates).
1858. The UCA set up a committee to procure the “Totman & Wright Lot” on the old ground for the purpose of making a carriage path. Existing graves in this lot were to be removed to a new location. Also in this year, a root was taken from the cemetery, and the hole filled in.
1859. The UCA reported that more trees were to be purchased and set in the cemetery.
1863. The UCA voted to (1) paint the iron fence and gates, (2) set out 50 trees and trim those already growing in the front of the cemetery, and (3) ask Amos Dunbar to move his plot 3’-10” to the east to allow for the carriage path.
1864. The UCA voted to change the burying ground name to the Assinippi Union Cemetery.
1865. The UCA voted to procure spruce trees and have them set in the cemetery, and to work on the cemetery roads and paths.
1866. The UCA voted to “fill in the vacant places round the wall with trees.”
1867. The UCA voted to build a wall on the west side of the cemetery.
1870. The UCA voted to get the iron fence repaired.
1872. The UCA voted to set out more trees around the wall and to cut the tops off the evergreen trees.
1876. The UCA voted to build a sidewalk in front of the cemetery on Main Street.

1877. The UCA voted to plant Arbor vitae trees in the cemetery, and voted to get the iron fence mended and painted.
1878. The line between South Scituate and Hanover at Assinippi was officially established. South Scituate paid Hanover \$250.00 to indemnify Hanover for the future care of the small section of highway north of Webster Street, which had been cared for by South Scituate.
- Also in this year, the UCA voted to authorize the county commissioners to widen the road in front of the cemetery, providing that full compensation be allowed for removing the wall and sidewalk.
1880. The UCA set up a committee to oversee rebuilding of the stone wall in front of the cemetery. One large pine tree was removed from the cemetery/
1893. The second Universalist church structure burned, and new edifice was built the following year. It remains in the same location to this day, straddling the Hanover and Norwell town lines. It was designed by Rev. Melvin S. Nash (leader of the church at the time) and Harrison L. House, Esq.
1897. The Hanover annual reports began listing separate appropriations and expenses for Assinippi Cemetery. In 1897, the town spent money on repairs to a pump and painting of the fence.
1898. The town trimmed the hedge at Assinippi.
1914. The UCA voted that the gates of the cemetery be “unhung.”
1920. The UCA voted to trim trees in the cemetery and repair the tool house.
1921. The UCA voted to “clean up sidewalk.”
1924. The town report referred to the cemetery at Assinippi as “Union Cemetery” for the first time. It reported that it was maintaining 20 Trust Funds at Union.
1939. The town report stated that Union Cemetery maintained 43 Trust Fund lots.
1948. The cemetery commissioners reported that two interments were made at Union during 1945.
1960. The town report listed \$7,174.40 in the cemetery trust fund for Union Cemetery.

West Hanover (Darling) Cemetery

The West Hanover Cemetery, also known as the Darling Cemetery or Darling-Winslow-Ellis Cemetery was established as early as 1829 off Circuit Street near the center of West Hanover. It was the resting place for three families who lived in the area for several generations. These families were headed by:

David Darling (1793-1876) was the son of Benjamin Darling of Pembroke. David was born in East Bridgewater and married Lydia Studley. The Darlings resided on Circuit Street, near the West Hanover Station, in a house constructed by David. The couple had three children, Sally (b. 1818), Harriet (b. 1821), and Sophia (b. 1826).

Thomas Winslow was the son of Thomas Winslow of Plymouth. The younger Thomas married twice and had 15 children, all of whom were born in Hanover. He resided on Circuit Street, as did several of his adult children, including Charles (1803-1891), Richmond (1804-1872), and Henry (1810-1858).

Mordecai Ellis (1718-1810) is descended from John Ellis of Sandwich. He married Sarah Otis and the couple had 11 children, all of whom were born in Hanover. He lived on Circuit Street, probably near the Drinkwater River. At least two of Mordecai's children lived in the Circuit Street house, as well as several grandchildren.

- 1829. The first known burial occurred at West Hanover Cemetery, that of Huldah Studley (daughter of Mordecai Ellis). She had married Nathan Studley (who is interred beside her).
- 1829-1868. Members of the Ellis family were buried in the first three to four rows of the cemetery. More than half of the cemetery is occupied by members of this family.
- 1891. The last known burial took place at West Hanover Cemetery, that of William Davis (1855-1891). The total number of stones remaining is 19.
- 1910. Dwelley and Simmons noted that in the early history of the Colony, family burial lots were common and there were three at least at Hanover, one located in West Hanover, a few rods northwest of the house of Alpheus Packard. At the time of Dwelley and Simmons' book (1910), this West Hanover lot had been fenced, and several headstones were standing.
- 1911. The town report first mentions the care of the Darling Cemetery, and noted that the town had reserved \$25.00 for its upkeep.

1928. The Morton V. Bonney fund was established to care for the cemetery in West Hanover.
1935. The town report noted that the fence around the cemetery had been replaced and old stumps were removed.
1960. The town report listed a total of \$2,052.99 in the Darling Cemetery Trust fund.



**ENGINEERING ASSESSMENT OF STRUCTURES AT
CENTER CEMETERY AND UNION CEMETERY IN
HANOVER, MASSACHUSETTS**

CEMETERIES AND STRUCTURES INVENTORIED

The purpose of this report is to review the existing conditions of the significant structures located within the Center Cemetery and Union Cemetery in the Town of Hanover. These structures include the following:

<u>Cemetery</u>	<u>Structures Inventoried</u>
Center Cemetery	Border Walls (4) Whiting Family Tomb Town Tomb Unmarked Family Tombs (2) Sylvester Family Tomb Bowers Family Tomb Brooks Family Tomb Stetson Perry Family Tomb Family Plot Curbing (overall)
Union Cemetery	Jacobs Family Tomb Whiting Family Tomb Randells Family Tomb Collamore Family Tomb Bowker Clapp Horton Family Tomb Unmarked Family Tombs (3) Retaining Wall on entrance driveway

EXISTING CONDITIONS OF STRUCTURES

Due to significant number of structures included in this investigation and the limited scope of this study, specific detailed condition assessments of each structure are not possible. Instead, structure specific inspection findings were developed in tabular form and are included in the appendix of this section. Also included in each inspection report are recommendations for short term and long term rehabilitation for each structure. The following section includes detailed discussions for typical problems noted during the inspections, the causes of these problems, and recommended restoration/rehabilitation actions.

FAMILY PLOT CURBING

There are numerous family plots that have stone curbing surrounding the gravesites in Center Cemetery. These curbs are intended to delineate the plots, provide an aesthetic border, and sometimes support minor amounts of soil. The curbs are primarily constructed with rough granite and cut granite. The joints in most of the curbing are not mortared. Some stones are joined with iron pins called dogs. The curbing is generally only embedded several inches below the surface of the ground.



Most of the curbs are in very good condition; however some have shifted and settled. The limited depth of the stones combined with the soil pressure and the growth of occasional tree roots behind the curbs has led to this movement. Many of the curbs catch surface water runoff behind them, which exacerbates this problem.

STONE STEPS



There are several stone steps that were located during the inspections. In general, these steps consist of granite blocks that are set into the hillside. The majority of these steps have shifted and settled over the years. In addition, several of the steps are far steeper than what modern codes allow. None of the steps have handrails.

Handrails were not found on any of the steps. This combined with the settlement of the steps makes these step unsafe. Current building codes set limits on step dimensions and require handrails. For this reason, consideration should be given to restricting access to these steps.

RETAINING WALLS AND TOMB FACADES

There are several stone retaining walls in two cemeteries studied. The front facades of the tombs are also soil retaining structures; therefore they are reported here. The purpose of retaining walls is to provide relatively level ground where slopes exist. This is typically done in cemeteries to provide additional space for burials on uneven ground. The Hanover Cemeteries have several small retaining walls that are supporting embankments and gravesites. The walls have been inspected, cataloged, and are reported in the appendix of this section. Most of the walls are sound and in good condition. Several are leaning and partially collapsed. Two tomb facades were access from inside. Both of these facades are pushing outward. This has led to gaps in the joints, sinkholes in the soil above, and missing brick and mortar. This problem is common in buried tombs. It is reasonable to assume that most of the tombs are experiencing this problem.





CAUSES OF PROBLEMS WITH THE TYPICAL STRUCTURES INVESTIGATED

As previously stated, detailed discussion of the causes of problems with each structure is impractical under this study. The following sections describe the general causes that are common to each type of structure investigated:

RETAINING WALLS, CURBING, AND TOMB FACADES

The discussion in this section pertains to the stone retaining walls, family plot curbing, and the front facades of the underground tombs. The tomb facades, while often decorative, are also used to retain the soil above and around the tombs.

Plans do not exist for any of the walls or tombs investigated; therefore, we cannot offer specific comments on the structural integrity of these structures. We can only comment on the information that we gathered during the site inspections. The most common causes of retaining wall failures are inadequate design, poor backfill soils, excessive ground water, and unstable foundations or slopes. The force from soil exerted on a retaining wall is similar to the force of water acting on a dam. The soil is pressing laterally against the back side of the wall. If the wall is not massive enough, the soil pressure will cause the wall to slide, bulge, and overturn. Forces from frost and groundwater cause the similar lateral forces that can fail a wall. The failures and leaning of several of the walls in the Hanover Cemeteries can be attributed to a combination of all of these causes.

It should be noted that movement of a retaining wall constitutes a structural failure. Failures of walls are progressive in nature. The long-term failure of a wall usually takes the following sequence:

1. Forces acting on the wall such as soil pressure, frost action, and ground water will cause the wall to move.
2. The movement of the wall then relieves the force acting on the wall.
3. Over time, the soil behind the wall will settle and re-compact.
4. The process will then repeat.

Once a wall starts to move, it will continue to move until it collapses. This type of failure can take several years, but in most cases, it takes many years (20 to 40 years or more).

There is very little control of surface and ground water on several of these walls and curbs. There are no signs of wall drains (weepholes) and the surface runoff is allowed to collect on top of several of the walls where the water can soak into the ground. Control of water is extremely important in order to provide a durable long lasting retaining wall. Water infiltration in the backfill soil of a wall can cause several problems:

1. The water will increase the unit weight of the soil, thereby increasing the pressures acting on the wall face.
2. If water is present in the backfill soil during freezing weather and if the backfill soil is not free draining, the soil will freeze and expand causing enormous pressures to build up.
3. Water will decrease the strength of the soil under the base of the wall and limit its ability to support loads.



STONE STEPS

The major cause of movement in the stone steps is settlement and frost action of the soil beneath the steps. Occasionally slope instability can lead to movement in stone steps, however this was not apparent at any of the steps in the Hanover cemeteries.

AREAS FOR RESTORATION

Most of the walls are in fair to very good condition, and few of the walls are in need of major rehabilitation. Several of the walls do not have mortar, however most do. Over time, these mortar joints tend to weather and crack. Minor movements of the wall also damage these joints.

The process of repairing mortar joints is called re-pointing. Re-pointing of the wall will simply improve the appearance. The joints could be cleaned and properly re-pointed with a quality mortar; however this process is very expensive, and would not result in a significant change to the appearance of most of the walls. The minor shifting and settling of the wall will also continue to cause repaired joints to crack in the future. It should be noted that the damage to the mortar joints in a stone wall is an aesthetic issue, not necessarily a structural issue. The walls can remain as is for many years without re-pointing.

Many of the walls have staining from adjacent trees, lichen growing on the surfaces, and rusting of iron appurtenances. These materials and stains can be carefully removed with cleaning solutions. Virtually all of the masonry in the cemeteries is granite, with the exception of several tomb doors that are marble and slate. The cleaning of masonry should not involve sand blasting or high pressure water blasting. Granite can be aggressively cleaned with cleaners and light water blasting since it is very hard and durable. Marble and slate require special cleaning agents and light hand cleaning methods. There are modern masonry cleaners that can remove dirt and grime without damaging the base material. Most of the staining is not severe and the lichen growth provides a mature historic feel to the walls; therefore we do not recommend cleaning of these surfaces unless the staining is severe.

AREAS FOR REHABILITATION

There are several structures that are in need of rehabilitation if funds permit. They consist mainly of the retaining walls that are shifting, bulging walls, and tomb doors. The inspection report notes recommended short term and long term repairs for each structure investigated. The following section describes typical rehabilitation procedures for each type of structure:

1. Tomb Facades:

The most significant problem with the tombs are the infiltration of water leading to the movement of the front walls. This is most likely due to frost action in the soil just behind the headwall stones. To repair these problems, the soil above the tomb should be removed, the top sealed with mortar. The soil can be replaced with a high quality non-frost susceptible structural gravel just behind the front wall to prevent future movement due to frost. Top soil can be used in the upper portion of the backfill in order to promote growth of grass.

In cases where the façade walls have moved to point of instability, the walls may need to be dismantled and reconstructed. This was done recently on the receiving tomb at the Maple Street Cemetery in Adams, Massachusetts, and the results were very good. See

paragraph 3 below for discussion on methods that should be used for tomb façade reconstruction.

The doors on some of the tombs are not original to the structures. Several tombs are missing the original doors. There may be historic data to determine the original makeup of these doors. If no data exists, then a historically accurate door, hinge and latch can be designed for a replacement.

2. Retaining Walls

Our investigation of the failed retaining walls in the Hanover cemeteries brought out several key issues that will affect our recommendations for rehabilitation:

- The walls were not properly designed from the beginning. The mass of the walls (thickness) is probably not sufficient to support the soil loading.
- There is no drainage system present to redirect surface water above the walls, and remove ground water behind the walls.

The bulging and leaning of the majority of these walls has not become critical yet. At this time, we would not recommend replacing these walls since they are only leaning a few inches, and it will take many years for these walls to completely fail (if left as is). There are some measures that can be taken to minimize the long-term degradation of the walls if budgets permit:



Redirection of Surface Runoff

If possible, the flow of surface rainwater should be redirected away from the walls. This may not be viable since there are gravesites that cannot be disturbed by re-grading.

Replacement of Backfill Material

This is a very useful method of stabilizing a wall that may not have been properly designed. The backfill material directly behind the face of the wall can be removed and replaced with a lightweight high strength material such as expanded shale crushed stone.

We have calculated the effect of using this material for a memorial restoration at the Sleepy Hollow Cemetery in Concord, Massachusetts. The lightweight stone can reduce the soil pressures by a factor of two in some cases. This stone also has an added benefit, since it can allow water to pass through easily to either a drainage pipe, or to weep hole through the wall face. The stone backfill can be topped with 4 to 6 inches of topsoil that can support new plantings.

Installation of Ground Water Drainage

Walls that do not have mortar joints naturally allow groundwater to pass through. Walls that have mortar joints tend to dam up water behind them. Weepholes can be cored through the face of these walls; however our experience is that this has a limited effect. Without well graded granular backfill material, the weepholes



quickly plug with sediment. The best way to control ground water is to install weepholes during replacement of the backfill as outlined above.

If the movement of the walls becomes critical, then the wall should be removed and reconstructed. This is usually a last resort option. In this case, the wall can be carefully reconstructed with the same stone, however it is recommended that additional stone be added to the new wall in order to build up the mass to prevent future failures. It appears that the border walls in the Center Cemetery were built this way and it has proven to be effective. These walls show little or no sign of movement. If the stone is made up of cut blocks, it is recommended that the stones be numbered and replaced in the same pattern if possible. Backfill and drainage measures listed above should also be followed in the reconstruction. This approach was successfully executed for a stone retaining wall at the Maple Street Cemetery in Adams, Massachusetts.

3. Stone Steps:

There are several stone steps within the Hanover Cemeteries that have settled and shifted. This represents a tripping hazard. Another potential tripping hazard involves the surface roughness of the individual steps. The fact that none of the steps have code compliant handrails is a third hazard. There are several approaches that can be taken for the rehabilitation of these steps. The steps that are flat enough to comply with modern codes can be removed and reset. The top surfaces of these steps may need to be re-worked so that the surface is more uniform. Steps that are too steep should probably be abandoned since they represent a significant hazard to pedestrians. Code compliant handrails should be added to all steps that are to remain in use.



APPENDIX A

**INSPECTION FINDINGS AND RECOMMENDATIONS FOR
STRUCTURES AT
THE CENTER CEMETERY AND UNION CEMETERY
IN
HANOVER, MASSACHUSETTS**



APPENDIX A1

INSPECTION REPORTS FOR THE CENTER CEMETERY



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Border Wall 1: Southwest Corner

Inspection Items	Comments
Movement	No significant lean
Joints	Repointed. Most has fallen out
Staining	Minor
Plant Growth	Some lichen
Overall Condition	<p>Very good. The repointing is missing in many areas, however this is only a aesthetic issue. The wall is true and plumb.</p> <p>The condition of the pointing is poor and needs to be replaced at some time in the future. The condition of the pointing does not affect the structural integrity of the wall.</p> <p>The only significant issue is the damage from the vehicle impact.</p>
Short Term Repairs	Reset corner stone
Long Term Repairs	Re-pointing and cleaning



Overall elevation looking west



Typical condition of joints



Vehicle Impact Damage



Wall alignment



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Border Wall : South Border, Right of Driveway (straight portion)

Inspection Items	Comments
Movement	No significant lean. There are aras with minor leans and and bulges.
Joints	Repointed. Most has fallen out
Staining	Minor
Plant Growth	Some lichen
Overall Condition	Very good. The repointing is missing in many areas, however this is only a aesthetic issue. For the most part, the wall is true and plumb. The backfill is sloping away from the wall and there is signs of rubble backfill material, wich is a good thing. The rubble improves the structural integrity. The condition of the pointing is poor and needs to be replaced at some time in the future. The condition of the pointing does not affect the structural integrity of the wall.
Short Term Repairs	None
Long Term Repairs	Repointing and cleaning



Elevation looking east



Typical backfill (note rubble backfill)



West corner at driveway



Wall alignment



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Border Wall 3: South Border, Between Wall 2 and tombs

Inspection Items	Comments
Movement	Minor leaning in several areas.
Joints	Repointed. Some has fallen out
Staining	Minor
Plant Growth	Vines and some lichen
Overall Condition	<p>Very good. The repointing is missing in many areas, however this is only a aesthetic issue. The wall is true and plumb.</p> <p>The vines can lead to deterioration of the pointing over time, but will have no effect on the stone.</p> <p>The condition of the pointing is poor and needs to be replaced at some time in the future. The condition of the pointing does not affect the structural integrity of the wall.</p>
Short Term Repairs	Remove vines if there is a concern for aesthetics.
Long Term Repairs	Repointing and cleaning



Elevation looking east



Typical condition of joints



Backfill and wall alignment



Close-up of joint



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Border Wall 4: South Border, Right of Tombs

Inspection Items	Comments
Movement	No significant lean
Joints	Repointed. Some has fallen out
Staining	Minor
Plant Growth	Some weeds in joints and some lichen
Overall Condition	Very good. The repointing is loose in many areas, however this is only a aesthetic issue. The wall is true and plumb. The condition of the pointing is poor and needs to be replaced at some time in the future. The condition of the pointing does not affect the structural integrity of the wall.
Short Term Repairs	None
Long Term Repairs	Repointing and cleaning



Elevation looking west



Typical condition of joints



Backfill and wall alignment



West End



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Whiting Family Tomb (along road) (dated 1852)

Inspection Items	Comments
Movement	None noted
Joints	Repointed. Some has fallen out
Staining	Minor staining on stone and around door.
Plant Growth	Some weeds in joints
Door	Heavy rust, but in sound condition. Hinges have seized.
Overall Condition	Excellent condition. The left wingwall has been repaired. The repointing needs repair in some areas. The walls are true and plumb. There are hinges on the wingwalls where a gate once stood.
Short Term Repairs	Remove plant growth
Long Term Repairs	Repointing and cleaning Paint door.



Front elevation



Vehicle damage repair



Lintel and Headwall



Door



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Unknown Family Tomb 1 (along road) (no date)

Inspection Items	Comments
Movement	Bulging of the wingwalls noted
Joints	Repointed. Some has fallen out. There is some original lead pointing at the header.
Staining	Minor staining on stone and around door.
Plant Growth	Some weeds in joints
Door	Heavy rust, but in sound condition. Hinges have seized.
Overall Condition	Good. The repointing is loose in many areas, however this is only a aesthetic issue. The lean of the wingwalls is a concern. The movement will get worse over time.
Short Term Repairs	Remove plant growth
Long Term Repairs	Remove wingwalls, add drainage and reset Clean stone surfaces Paint door.



Front elevation



Left Wingwall



Right Wingwall



Door



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Unknown Family Tomb 2 (along road) (no date)

Inspection Items	Comments
Movement	None noted
Joints	Repointed. Some has fallen out
Staining	Minor
Plant Growth	Some weeds and lichen
Door	None
Overall Condition	Very good. The repointing is missing in many areas, however this is only a aesthetic issue. Most of this tomb is buried. The access door is most likely underground, either on the roof or at one end.
Short Term Repairs	Remove plant growth
Long Term Repairs	Repoint joints



Front elevation



Headwall



Looking West



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Town Tomb (along road) (dated 1845)

Inspection Items	Comments
Movement	Bulging of the wingwalls noted The front façade wall has moved forward.
Joints	Repointed. Most is loose. There is some original lead pointing at the header.
Staining	Minor staining on stone and around door.
Plant Growth	None
Door	Heavy rust, but in sound condition. Hinges have partially seized.
Overall Condition	Good. The repointing is missing in many areas, however this is only a aesthetic issue. The tomb interior was accessed. All walls and the roof are sound except the front wall. This wall has pushed resulting in an open joint. Soil is falling through this opening. This is due to frost action behind the header and lintel stones.
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces Paint door.



Front elevation



Rear Interior Corner



Gap in Front Wall at roof



Typical Wingwall



Door



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Bowers Family Tomb (no date)

Inspection Items	Comments
Movement	None noted
Joints	Dry joints, no mortar
Staining	Minor
Plant Growth	Weeds growing in entrance
Door	Missing. Hinges in place
Overall Condition	Very good.
Short Term Repairs	Remove plant growth
Long Term Repairs	Install historically accurate door



Front elevation



Left Wingwall



Right Wingwall



Side View Looking South



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Brooks Family Tomb (dated 1790)

Inspection Items	Comments
Movement	None noted
Joints	Dry joints, no mortar
Staining	Lichen and rust stains on door
Plant Growth	Weeds in entrance. Vines on header
Door	Stone is heavily cracked and missing a corner
Overall Condition	Very good. The door is in poor condition. It is un-repairable. The hinges can be salvaged.
Short Term Repairs	Remove plant growth
Long Term Repairs	Replace door in kind.



Front elevation



Left Wingwall



Right Wingwall



Door



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Stetson Perry Family Tomb (1806)

Inspection Items	Comments
Movement	Nothing significant
Joints	Original lead pointing in place and in good condition
Staining	
Plant Growth	Heavy vine growth
Door	Stone and in fair condition. Missing corners
Overall Condition	Very good. The door may need to be replaced at some time in the future.
Short Term Repairs	Remove plant growth
Long Term Repairs	Replace door in kind if condition worsens.



Front elevation



Left Wingwall



Right Wingwall



Door



Cemetery Structures Inspection Report

Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Sylvester Tomb (along road) (dated 1852)

Inspection Items	Comments
Movement	None noted
Joints	Lead pointing in some joints. In good condition
Staining	Minor staining on stone and around door.
Plant Growth	Some lichen
Door	Heavy rust, on hinges, but in sound condition. Minor spalling of door face.
Overall Condition	Excellent condition. The walls are true and plumb.
Short Term Repairs	None
Long Term Repairs	Repointing and cleaning Paint door hinges.



Front elevation



Left Wingwall



Right Wingwall



Door



Cemetery Structures Inspection Report

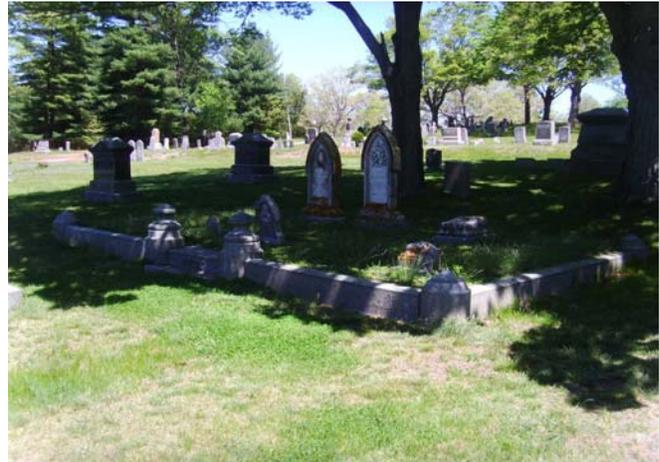
Cemetery	Center Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Various Plot Borders

Inspection Items	Comments
Movement	Most are good. Some have minor movement
Joints	Some lead pointed. Others are dry.
Staining	Minor staining on most.
Plant Growth	Minor
Overall Condition	The border curbing on most plots is in good condition. Some are in excellent condition. The worst issues are the leaning of several of the plot borders, which is not significant.
Short Term Repairs	None
Long Term Repairs	Remove and reset leaning stones. Consider adding drainage if water is being trapped behind the stones.



Typical Plot Border



Typical Plot Border



Ornate Border



Typical Plot Border



APPENDIX A2

INSPECTION REPORTS FOR THE UNION CEMETERY



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Jacobs Family Tomb 1 (dated 1794)

Inspection Items	Comments
Movement	Nothing noted
Joints	Hidden
Staining	Minor staining
Plant Growth	Heavy plant growth
Door	Not visible
Overall Condition	The condition could not be determined.
Short Term Repairs	Remove plant growth
Long Term Repairs	Repoint exposed joints Clean stone surfaces



Entrance area



Entrance



Overall side view



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Whiting Family Tomb (not dated)

Inspection Items	Comments
Movement	The wingwalls are bulging significantly. The front façade wall has moved forward.
Joints	Lead pointing is in good condition Interior pointing is in fair condition
Staining	Staining on stone and around door.
Plant Growth	Lichen
Door	Excellent condition. Hinges working well.
Overall Condition	Good. The tomb interior was accessed. All walls and the roof are sound except the front wall. This wall has pushed resulting in an open joint. Bricks are falling out in this area. This is due to frost action behind the header and lintel stones. There is a crack running from front to back in the brick arch. The interior is damp which has led to deterioration of the mortar. The wingwall are failing. The caskets have been disturbed
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces and door



Front elevation



Bulging Wingwall



Gap in Front Wall at roof (note missing bricks)



Interior walls and roof



Damaged wingwall



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Randells Family Tomb (not dated)

Inspection Items	Comments
Movement	The wingwalls are bulging significantly.
Joints	Repointed. Most is loose.
Staining	Staining on stone and around door.
Plant Growth	Lichen
Door	Good condition. Hinges rusting
Overall Condition	Fair The wingwall are failing. They will continue to move over time.
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces and door



Front elevation



Right wingwall



Left wingwall

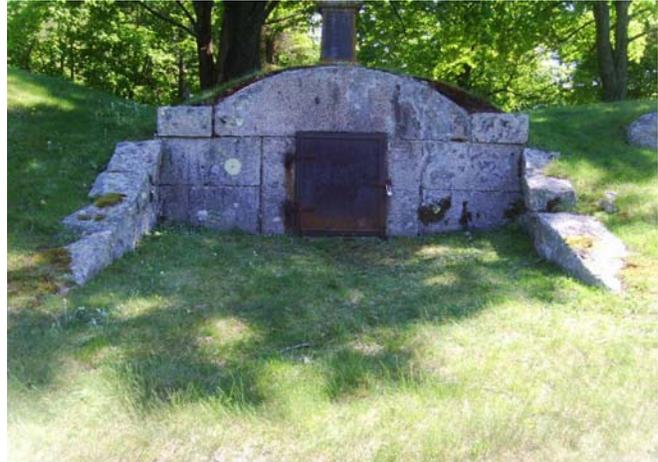


Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Collamore Family Tomb (not dated)

Inspection Items	Comments
Movement	The wingwalls and header are bulging.
Joints	Repointed. Most is loose.
Staining	Staining on stone and around door.
Plant Growth	Lichen and moss
Door	Good condition, but rusting The hinges are seized
Overall Condition	Fair The wingwalls are failing. They will continue to move over time. The headwall is also bulging.
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces Paint door



Front elevation



Header and door



Left wingwall



Right wingwall



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Unknown Family Tomb 1 (not dated)

Inspection Items	Comments
Movement	The wingwalls and header are bulging.
Joints	Repointed. Some is loose.
Staining	Staining on stone and on door.
Plant Growth	Lichen and moss
Door	Poor condition. Cracked in several places
Overall Condition	Fair The wingwalls are failing. They will continue to move over time. The headwall is also bulging. The door is broken and has been poorly repaired at one crack.
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces Repair door if possible. If not, replace in kind.



Front elevation



Header and door



Left wingwall



Right wingwall

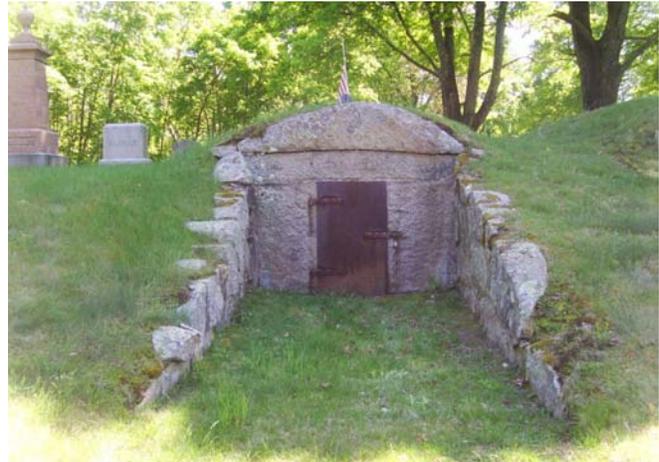


Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Unknown Family Tomb 2 (not dated)

Inspection Items	Comments
Movement	The wingwalls and header are bulging.
Joints	Repointed. Some is loose.
Staining	Staining on stone and around door.
Plant Growth	Lichen and moss
Door	May not be original. Hinges appear to be original
Overall Condition	Fair The wingwalls and headwall are starting to fail. They will continue to move over time. The door does appear to be a replacement that was welded in place.
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces Replace door with historically accurate door. Salvage hinges. Paint the new door.



Front elevation



Door



Left wingwall



Right wingwall



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Bowker, Clapp and Horton Family Tomb (dated 1851)

Inspection Items	Comments
Movement	No movement noted
Joints	Original lead pointing in place and in good condition
Staining	Staining on stone and around door.
Plant Growth	Lichen
Door	The door is in poor condition. It is broken in several places
Overall Condition	Very good The wingwalls and headwall are sound. over time. The only significant issue with this tomb is the door.
Short Term Repairs	None
Long Term Repairs	Clean stone surfaces Replace door with historically accurate door. Salvage hinges. Paint the hinges.



Front elevation



Door



Left wingwall



Right wingwall



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Unknown Family Tomb 3 (not dated)

Inspection Items	Comments
Movement	The wingwalls and header are bulging.
Joints	Repointed. Most is loose.
Staining	Staining on stone
Plant Growth	Lichen
Door	Missing. Hinges are still in place.
Overall Condition	Fair The wingwalls are failing. They will continue to move over time. The headwall is also bulging. Mortar has been added to fill the gap between the headwall and tomb. The door is missing.
Short Term Repairs	None
Long Term Repairs	Remove wingwalls, header and lintel stones, add drainage and reset. Clean stone surfaces Replace door with historically accurate door.



Front elevation



Signs of headwall movement



Left wingwall



Right wingwall



Cemetery Structures Inspection Report

Cemetery	Union Cemetery		
Inspection Date	May 4, 2010	Inspector	Pete Culmo

Structure
Retaining Wall and Stairs on access road

Inspection Items	Comments
Movement	Minor leaning in several areas.
Joints	Repointed. Some has fallen out
Staining	Minor
Plant Growth	Lichen
Overall Condition	<p>Good. The repointing is missing in many areas, however this is only a aesthetic issue. The wall is fairly true and plumb.</p> <p>The condition of the pointing is poor and needs to be replaced at some time in the future. The condition of the pointing does not affect the structural integrity of the wall.</p> <p>There are no handrails on the stairs, which poses a safety risk.</p>
Short Term Repairs	Close off access to stairs
Long Term Repairs	Repointing and cleaning Install handrails or restrict access to stairs



Overall wall



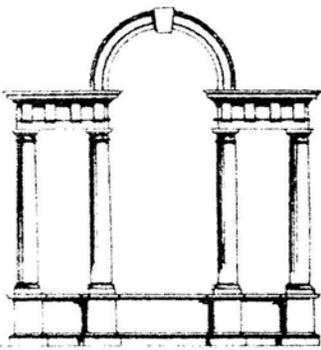
Left stairs



Typical condition of joints



Right stairs



FANNIN • LEHNER

PRESERVATION CONSULTANTS

HANOVER, MASSACHUSETTS

HANOVER CENTER,
UNION ASSINIPPI
AND
WEST HANOVER/DARLING
CEMETERIES

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
REPORT

PREPARED FOR THE
HANOVER HISTORICAL
COMMISSION

2010

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INTRODUCTION

HANOVER CENTER CEMETERY

The gravestones and monuments of the oldest sections of Hanover Center Cemetery permit one to trace the development of memorialization from early in the 18th century to the present. There are a number of stones, both small and impressively large, carved by known gravestone carvers during the 1700's and early 1800's. Often the sizeable, elaborately carved stones denote well-known people important in the development of Hanover.

During the gravestone/monument condition assessment project, each marker in the well-maintained Hanover Center Cemetery was examined; it was found that some 435 gravestones and monuments required some level of conservation. Overall, the condition of the marble and granite monuments, in the area of cemetery covered in this report, is good. The marble gravestones, with and without bases, have fared less well and are in fair condition.

It is the oldest gravestones, the early slates, which have, over almost three centuries, have suffered the most. Many of them are tilting, falling, broken, and have problems with delamination of the stone layers. In recent years the growth of lichenous plants on the markers has seriously obscured inscriptions. According to the cemetery staff, the appearance of lichen is a fairly recent event and has possibly been caused by the improvement in air quality over time, as lichen will not grow in a polluted environment. Stones requiring conservation will be cleaned of lichen but some consideration may be made for a project to clean, with extreme care, the stones not identified in this report for treatment.

The stones in the Old Sections 1, 2, 3, many of them slates, are the oldest and more vulnerable and will require substantial conservation effort. A problem for these markers and many others throughout the study area is the extensive use of concrete around the bottom. While done with good intentions in the 1940s, when the gravestones and footstones were set in lines, it is now clear that this attempt to stabilize stones is seriously detrimental to their survival over the long term. The cost of conservation is increased due the need to remove this material. As records of the history of early Hanover, it is important to address the conservation problems of this historic and artistic area.

UNION ASSINIPPI CEMETERY

The full range of markers in Union Assinippi Cemetery includes early slates and marbles through “white bronze” (zinc) monuments to smaller and impressively larger granite memorials. Despite the relatively small size of the cemetery, one finds a full sweep of the monument builder’s art and the gravestone carver’s craft. The conservation needs of the cemetery stem mostly from damage due to tree limbs and many cases of marble markers fractured and fallen from the insidious rusting (thus expansion) of the early iron pins used to secure them. Vandalism has not appeared to be a problem in Union Assinippi Cemetery. Like Hanover Center and West Hanover cemeteries, Union Assinippi Cemetery is well maintained and inviting to explore.

WEST HANOVER/DARLING CEMETERY

This charming cemetery, tucked away in the woods, contains a total of 24 stones at present. Of this number, nineteen are gravestones and five are footstones. All the footstones and nine of the gravestones, a total of 13, require conservation, a fairly high percentage. However, this is a small grouping and its remote location may have made it prone to vandalism in the past, as there is no evidence of any recent event. Again, the Town of Hanover should be commended for its grounds maintenance of the cemetery.

HANOVER CEMETERIES

GRAVESTONE/MONUMENT CONDITION ASSESSMENT REPORT

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**GRAVESTONE CARVERS AND MONUMENT MAKERS IN
HANOVER CEMETERIES**

The Hanover cemeteries have a number of gravestones by recognized carvers. The list below of identified gravestone carvers is intended only as a beginning. There may well be the work of other carvers in the cemeteries. Listed with the gravestone carver or monument maker are examples of his work in the Hanover cemeteries. There are also gravestones and monuments in the Hanover cemeteries, which are signed by carvers or monument makers about which little is known. This group would make a rewarding research project. In addition there are stones of aesthetic significance, which are unsigned, and the carver is unknown.

The identification of these gravestone carvers in the Hanover cemeteries was greatly aided by Laurel K. Gabel of Yarmouth Port, Massachusetts, a nationally known gravestone carver authority. She is the author of many articles and co-author, with Theodore Chase, of the two-volume Gravestone Chronicles, New England Historic Genealogical Society, Boston MA, 1997.

S. ABBINGTON (This may refer to the Massachusetts town, rather than a specific carver).

Hanover MA. Hanover Center Cemetery. Ex. S. Lyman Ramsdell,
d. April 4, 1871 (#F-33)

W. BATES, Hanover MA

Hanover MA. Hanover Center Cemetery. Ex. Coll. John B., d. Aug. 6, 1854 and Mrs.
Betsey Eels, d. July 14, 1851, Barstow (#D-25).

D. H. BOWKER, noted in both Abington MA and South Scituate MA.

Hanover MA. Hanover Center Cemetery. Exs. Michal Stetson, d. May 17, 1851
#E-8); Unidentified stone, d. Jan. 21, 1857 (#Old Section - 1).

Hanover MA. Union/Assinippi Cemetery. Ex. Seth Curtis, d. Mar. 23, 1860 (#B-28)

BRYANT & CO., Brockton MA.

Hanover MA. Hanover Center Cemetery. Exs. Abbie A. Gurney, d. Sept. 23, 1870 (#E-79); Sarah E. Studley, d. July 9, 1869 (#E-79); Benjamin Stetson, d. June 6, 1866 (#F-21); Lucy Stetson, d. Oct. 3, 1875 (#F-21); J. Waldo Belcher, d. July 15, 1857 (#F-52).

Hanover MA. Union/Assinippi Cemetery. Ex. Mr. Calvin Wilder, d. Feb. 27, 1853 (#A-3).

BRYANT & GREENE (Brockton MA?)

Hanover MA, Union/Assinippi Cemetery. Ex.: Caroline Sears, d. Nov. 3, 1855 (#B-25).

JAMES CRAIG, Quincy MA.

Hanover MA, Hanover Center Cemetery. Joseph A., d. Aug. 4, 1910 and Julia A. M., d. Sept. 27, 1897, Goddard (#G-55).

FAIRBANK

Hanover MA, Hanover Center Cemetery. Ex. Diana Perry, d. Mar. 2, 1881 (#E-69).

NATHAN FARLEY (sometimes signed N. Farley). To be researched. (Concord NH)

Hanover MA, Hanover Center Cemetery. Ex.: Rev. Benjamin Bass, d. May 24, 1756 (#E-88).

FITZGERALD

Hanover MA, Hanover Center Cemetery. Exs: Emeline H. Tribou, d. Jan. 30, 1882 (#F-15); Robert H. Studley, d. May 1, 1885 (#F-30).

L. JOHNSON

Hanover MA, Hanover Center Cemetery. Exs: Mary E. Palmer, d. March 5, 1846 (#B-53); Oren C., d. April 6, 1819, and Jane R., d. Jan. 3, 1830, Josselyn (#D-43).

Hanover MA, West Hanover/Darling Cemetery. Ex: Nat'l Pratt,
d. April 30, 1848 (#16).

McLAREN & CO.

Hanover MA, Hanover Center Cemetery. Ex: John W. Estes,
d. Aug. 11, 1872 (#C-5).

JOHN NEW. JOHN (1722-1811) and JAMES II (1751-1835) carved stones in a Wrentham, Massachusetts shop. There are no gravestones that can be with certainty attributed to James New I (1692-1781) and he may not have been a gravestone carver. The News worked mainly in Central and Southshore Massachusetts as well as in the Attleboro, Massachusetts area.

"The New family carved two types of designs: a squinting winged skull (1754-1760) found in the Wrentham area, mostly in the town of Millis, and a portraitlike angel carved between 1758 and 1770. These angels are generally distributed east of Wrentham, primarily in Hingham and Weymouth." ¹

Hanover MA, Hanover Center Cemetery. Exs: John Stockbridge, d. 1768; Mr. Joseph Studley, d. June 16, 1766 (#Old Section - 1).

"NORTH RIVER CARVER". Marshfield MA area. There were two unidentified "North River Carvers." which, according to Peter Benes, The Masks of Orthodoxy (1977), were part of the Scituate School Gravestone Makers, active from 1700 to 1781. The first "North River Carver" was active from 1700 to 1730. The second "North River Carver" was carving gravestones from 1730 to 1778. It is clear the Hanover MA gravestones, listed below, were the product of the second "North River Carver." Benes comments: "The longest sustained headstone style in [Plymouth] county was engraved by two "North River Carvers" who retained the same winged skull symbols for about fifty years." (p. 57, 149).

Hanover MA, Hanover Center Cemetery. Exs: Mrs. Sarah Bailey,
d. Oct. 8, 1740 (#Old Section - 1); Mr. Amos Sylvester, Oct. 12, 1753
(#Old Section - 1).

OLDHAM, Hanover MA

Hanover MA, Hanover Center Cemetery. Ex: Cordelia E. Stetson, a
d. Aug. 22, 1860 (#D-7).

¹Peter Benes. The Masks of Orthodoxy: Folk Gravestone Carving in Plymouth County, 1689-1805. Amherst: The University of Massachusetts Press, 1977, p. 242, footnote #17.

NOAH (1731-1781) and ROBERT PRATT (1753-1791). The bulk of the gravestones of the Pratt family workshop are found on the South shore of Massachusetts. The family seat of the Pratts was Abington, Massachusetts

Hanover MA, Hanover Center Cemetery. Ex. Bates Family Children,
d. 1792 (#Old Section - 3)

NOAH PRATT, JR. (1758-1825). Noah Pratt, Jr., the son of Noah Pratt (1731-1781), was born in Abington MA and remained there until his marriage in 1780 when he moved to Freeport, Maine, where he remained for the next ten years. Following the death of his oldest brother, Robert, in 1791 he returned to Abington and took over the family gravestone carving business. His thick stones are often characterized by a tympanum topped with a six-petaled flower in the shape of a star, one of three distinctive head or face styles and quite fat foliage embellishing the side borders. Reference: Ralph L. Tucker, "The Pratt Family of Stonecutters," Markers XIV, 1997, pages 135-158.

Hanover MA, Hanover Center Cemetery. Exs: Mr. Joseph Ramsdell,
d. Aug. 24, 1788 (#Old Section . 1); Mrs. Margaret Barstow, d. April 12, 1788
(#Old Section - 3).

SETH JONES PRATT (1762-1838), Abington MA. The brother of Robert Pratt and Noah Pratt, Jr., Seth Jones Pratt was born in Abington MA. It is difficult to distinguish his work from that of Robert Pratt. Although he appears to have spent most of his profession in Abington, at some point he moved to Maine and died there in 1838. Reference: Ralph L. Tucker, "The Pratt Family of Stonecutters," Markers XIV, 1997, pages 135-158.

Hanover MA, Hanover Center Cemetery. Exs: Mr. Samuel Curtis,
d. Feb. 23, 1794 (#Old Section - 3); Deacon Samuel Barstow, d. Nov. 19, 1801
(#Old Section - 2); Mrs. Mary Turner, d. May 3, 1796 (#Old Section - 1);
Mrs. Elizabeth Tilden, d. March 2, 1799 (#Old Section - 1).

JACOB VINAL, SR. (1670-1736). This family of stone carvers lived on a hill above Scituate harbor "and who for about a period of eighty years were the principal gravestone suppliers in Scituate, Cohasset and Hingham." His career was aided by his marriage to Mary Cudworth, the daughter of James Cudworth, a prominent Scituate citizen. Jacob Vinal began to carve gravestones between 1715-1720. Reference: Peter Benes, The Masks of Orthodoxy, University of Massachusetts Press, 1977, pages 65-81.

JACOB VINAL, JR. (1700-1788). The son of Jacob Vinal, Sr. (1670-1736), he continued, with notable success, his father's gravestone carving shop. "During most of his life, he

dominated the profession in northern Plymouth County, selling his stones along geographical and occupational lines rather than just within his own and one or two neighboring parishes. Besides Scituate, he placed a sizable number of stones in Braintree, Hingham, Cohasset, and Marshfield - all coastal towns whose principal occupations, outside of farming were seafaring and fishing." (Peter Benes, The Masks of Orthodoxy, 1977, p. 76.)

Hanover MA. Hanover Center Cemetery. Ex: Joseph Curtis, d. 1753.

BILDAD WASHBURN (1762-1832). Bildad Washburn was Kingston MA's first stone carver and his career spanned some fifty years from about 1782 to 1830. His stones are found most often in Kingston (308), Duxbury, Marshfield and Pembroke. All the Hanover stones below are from his middle period (1791-1810) with their distinctive faces/cherubs. His brother-in-law and apprentice was Bartlett Adams (1776-1828), who called himself a "Sculptor and Stone Cutter." (Reference: James Blachowicz, From Slate to Marble: Gravestone Carving Traditions in Eastern Massachusetts 1770-1870, Graver Press, 2006, pages 226-237.

Hanover MA, Hanover Center Cemetery. Exs: Mrs. Polley Macomber, d. Jan. 6, 1796 (#Old Section - 2); Bethiah Robbins, d. Oct. 16, 1801 (#Old Section - 2); Mr. Elisha Barker, d. Oct. 18, 1781 (#Old Section - 1); Mrs. Bettey Macomber, d. July 22, 1807 (#Old Section - 2).

WENTWORTH & TWOMBLY, Boston MA.

Hanover MA, Hanover Center Cemetery. Ex: Eliza Josselyn, d. Feb. 24, 1854 (#E-91).

**GUIDE TO GRAVESTONE/MONUMENT CONDITION
ASSESSMENT LISTS**

HANOVER CENTER CEMETERY

Hanover Center Cemetery has a listing of stones requiring conservation that was developed as follows: The project area covered Sections A - G and an additional area of gravestones without lots and not denoted with a letter designation. For purposes of location, this large area was divided into Old Section 1, 2 and 3 as denoted on the accompanying map.

- **LOT #:** This is the number of the lot in Sections A - G in which the stone is located.
- **SECTION:** This is the number of the Old Section (1, 2, 3) in which the marker is located. Each list denotes that it is the old section and provides FS for footstones.
- **LAST NAME**
- **FIRST NAME**
- **D OF DEATH:** Complete Date of Death.
- **TYPE:** Head (headstone), Foot (footstone) (FS), Mon (monument), Obelisk, Marker (similar to a headstone but related to a central monument), Fragment.
- **MATERIAL:** Slate, marble, sandstone/brownstone, granite, limestone.
- **NOTES:** Problems experienced by the marker, Gravestone carver (if known), Miscellaneous Information.
- **TREATMENT:** Most common are: reset, adhesive repair, mortar into base, tack, cap and infill. All stones are completely cleaned before conservation is performed. Further treatment may include removing old repairs, re-pinning or new pins, or making a new base or foundation. Some stones must be investigated

before treatment can be determined. Other stones need to be reset in the proper location, order or direction.

• **PR/COST:** ("PR") - Priority or urgency of repair with "1" signifying Urgent, "2" - Less urgent but necessary. ("COST") - The estimated cost of conservation of this gravestone/monument/footstone. The scale utilized is as follows:

<u>Category</u>	<u>Cost</u>
A -----	\$225 - 375
B -----	\$450 - 675
C -----	\$750 - 900
D -----	\$975 - 1200
E -----	\$1275 - 1500
F -----	\$1575 - 2250

HANOVER CENTER CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-25	MANN	LEVI	APR. 11, 1853	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/BROKEN OUT OF CONCRETE (CAUTION: PREVIOUS REPAIR)	1/C
A-25	MANN	MARGARET	NOV. 4, 1849	HEAD	MARBLE	EXCAVATE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN/ LOOSE IN CONCRETE	1/C

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-23	STETSON	NATHANIEL JOANNA	JULY 19, 1846 AUG. 23, 1841	HEAD	MARBLE	EXCAVATE BASE FRAGMENT AND REMOVE CONCRETE IF POSSIBLE. CLEAN. REMOVE PREVIOUS REPAIR ON STONE. DRILL AND PIN. NEW BASE? SET BASE? MORTAR INTO BASE. INFILL	BROKEN	1/C
B-23	STETSON	BETSEY	SEPT. 25, 1881	MON	MARBLE/ GRANITE	REMOVE SHRUBS (BY OTHERS). LIFT OFF DIE AND MARBLE BASE. EXCAVATE GRANITE BASE. CLEAN. RESET GRANITE BASE. ASSEMBLE DIE AND MARBLE BASE ON GRANITE BASE	TILTED/ IMPACTED BY SHRUBS	1/B
B-23	STETSON	ALBERT SARAH MARIA	MAR. 27, 1845 APR. 24, 1845	HEAD	MARBLE	REMOVE SHRUBS! (BY OTHERS). EXCAVATE. REMOVE CONCRETE FROM DIE AND BASE. RE-USE BASE? NEW BASE? SET BASE. MORTAR INTO BASE	BROKEN/ IMPACTED BY SHRUBS	1/B

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-25	BARSTOW	CAPT. DANIEL	FEB. 24, 1842	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. NEW BASE? SET BASE. MOTAR INTO BASE	TILTED	1/C
B-25FS	BARSTOW	CAPT. DANIEL	FEB. 24, 1842	FOOT	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED	2/C
B-28	WHITING	PYAM C.	AUG. 12, 1845	HEAD	MARBLE	EXCAVATE AND EVALUATE. MAY BE INFEASIBLE TO REPAIR.	FALLEN/BROKEN SEVERE DETERIOR- ATION	1/A
B-30	DWELLEY	MILTON (ETC.)	JULY 9, 1883	OBELISK	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. NEW FOUNDATION. REASSEMBLE	TILTING	1/C
B-31	BASS	FLORA I.	NOV. 10, 1870	SMALL MON	MARBLE/ GRANITE	EXCAVATE BASE. REMOVE PREVIOUS REPAIR. CLEAN. RESET BASES. DRILL & PIN DIE TO BASES	FALLEN	1/C
B-38	ELLIS	NATHANIEL MARY	FEB. 5, 1817 JAN. 21, 1848	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE IF POSSIBLE. CLEAN. RESET. (MAY NEED A NEW BASE?)	TILTED	1/B

HANOVER CENTER CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN•LEHNER
10/27/10

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-50	CHAMBERLAIN	IRVING H.	1916	SLANT FACED MARKER	GRANITE	REMOVE YUCCA AND WEEDS (BY OTHERS) EXCAVATE AND SET ASIDE MARKER. CLEAN. RESET FOUNDATION. LEVEL MARKER ON FOUNDATION	TILTED/ IMPACTED BY YUCCA SHRUB	1/B
B-52	BATES	LYDIA P. GEORGE F.	OCT. 16, 1837 AUG. 28, 1838	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE IF POSSIBLE. CLEAN. RESET	TILTED	1/B
B-53	PALMER	MARY E.	MAR. 5, 1846	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED/ CARVER: L. JOHNSON	1/A
B-54	DUNCAN	REV. ABEL	APR. 23, 1871	HEAD	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN	TILTED	1/A
B-55	WHITING	SALLY CURTIS EZRA	SEPT. 10, 1874 OCT. 3, 1831	MON	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN	TILTED	1/B
B-56	BAILEY	HORATIO N.	1860	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REPIN	TILTED/ LOOSE IN BASE	1/B
B-57	BATES	REUBEN	JAN. 13, 1829	HEAD	SLATE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED/RAISED	1/B

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-57	BATES	MISS BETSEY	NOV. 21, 1825	HEAD	SLATE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/BROKEN	1/C
B-57	BATES	MR. GAMALIEL	JAN. 9, 1823	HEAD	SLATE	EXCAVATE. REMOVE CONCRETE IF POSSIBLE. REMOVE OTHER PREVIOUS REPAIR. CLEAN. RESET BOTTOM FRAGMENT. AD REP TOP TO BOTTOM FRAGMENT. INFILL	TILTED/BROKEN	1/B
B-57	BATES	MRS. MARY	JUNE 22, 1836	HEAD	SLATE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED	2/A
B-59	JOSSSELYN	ELI C.	SEPT. 13, 1903	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED	2/A
B-59	ROBBINS	ELEANOR T.	JAN. 29, 1843	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN GROUND	1/C
B-59	ROBBINS	TIMOTHY	AUG. 14, 1850	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE? SET BASE? MORTAR INTO BASE	TILTED/ LOOSE IN GROUND	1/C

HANOVER CENTER CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN-LEHNER
10/27/10

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-59	ROBBINS	TIMOTHY	FEB. 22, 1856	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE IF POSSIBLE. CLEAN NEW BASE? SET BASE? MORTAR INTO BASE	TILTED	1/C
B-61	BATES	HENRY AUGUSTUS	DEC. 9, 1839	HEAD	MARBLE	REMOVE SHRUB STUMP. (BY OTHERS) EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/BROKEN IMPACTED BY SHRUB STUMP	1/B
B-62A	SYLVESTER	LUCY	OCT. 9, 1780	HEAD FRAG	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/A
B-62A	ILLEGIBLE	ILLEGIBLE	N/A	HEAD FRAG	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN/ SEVERE DETRIOR- ATION	1/A
B-62A	ROBINSON	GAIN SALLY	APR. 7, 1842 SEPT. 4, 1849	HEAD FRAG	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/A
B-62A	HIDDEN	MR. NOAH	APR. 17, 1822	HEAD FRAG	SLATE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/A

HANOVER CENTER CEMETERY
HANOVER MA

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-62A	CUSHING	BENJAMIN STOCKBRIDGE	N/A	HEAD FRAG	SLATE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/A
B-62A	CURTIS	DEBORAH	AUG. 12, 1738	HEAD FRAG	SLATE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/A
B-62AFS	S.	C.	N/A	FOOT FRAG	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/A
B-62A	N/A	N/A	N/A	BOTTOM FRAG	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN MILITARY MARKER: "KOREA"	1/A
B-62A	DAMON	ELEANOR	NOV. 11, 1876	HEAD FRAG	MARBLE	FIND PROPER LOCATION. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	FALLEN/BROKEN	1/D
B-62A	JACOB	SUSAN ANNA "MOTHER"	JUNE 1, 1865	MON DIE	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN	FALLEN	1/C
B-62A	CUSHING	HORATIO, ESQ.	JUNE 21, 1836	HEAD: TOP AND BOTTOM FRAGS	MARBLE	FIND PROPER LOCATION. DEVISE TREATMENT PLAN CAN BE PINNED	FALLEN/BROKEN	1/C

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-62A	SEARS	GEORGE A.	SEPT. 17, 1856	HEAD	MARBLE	FIND PROPER LOCATION. REUSE BASE? NEW BASE? CLEAN. MORTAR INTO BASE	FALLEN/ OUT OF BASE	1/C

HANOVER CENTER CEMETERY
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SECTION C

FANNIN-LEHNER
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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
C-6	ESTES	JOHN W.	AUG. 11, 1872	HEAD	MARBLE	EXCAVATE STONE AND BASE. CLEAN. RESET BASE. MORTAR INTO BASE	FALLEN/ OUT OF BASE CARVER: MC LAREN & CO.	1/B
C-8	THOMAS	CHARLES, JR.	OCT. 8, 1848	HEAD	MARBLE	EXCAVATE STONE AND BASE. CLEAN STONE. NEW BASE. SET BASE. MORTAR INTO BASE.	FALLEN/ BROKEN OUT OF BASE	1/B
C-9	TURNER	SAMUEL S.	NOV. 19, 1887	MON	MARBLE	SEPARATE DIE AND BASE. EXCAVATE LOWER BASE. CLEAN. NEW FOUNDATION. LEVEL LOWER BASE ON FOUNDATION. REPIN DIE AND MIDDLE BASE (HEAVY)	FALLEN	1/D
C-10	BATES	WILLIAM H. (CORP)	N/A	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/ MILITARY MARKER: "CO. K 38TH MASS INF."	1/A
C-10	BATES	GEORGE	N/A	SMALL HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/A
C-11	WILLIS	ELIZA D.	APR. 12, 1842	HEAD	MARBLE	EXCAVATE. CLEAN. RESET HIGHER	TILTED	2/A

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
C-11	WILLIS	FERRIN	N/A	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/ MILITARY MARKER: "CO. F 1ST MASS. H. A."	2/A
C-12	ELLIS	LUCY J.	JUNE 7, 1859	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. INVESTIGATE BELOW GRADE BASE. CLEAN. REUSE BASE? NEW BASE? SET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN GROUND	1/B
C-21	FRENCH	MARTHA B.	APR. 27, 1859	MON	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN.	TILTED	2/A
C-21	FRENCH	MARTHA P.	APR. 7, 1886	MON	MARBLE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REPIN	TILTED/ LOOSE ON PINS	1/B
C-23	RIPLEY	MRS. MARY F. W.	MAR. 18, 1881	MARKER	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
C-23	RIPLEY	REV. SILAS	MAY 7, 1868	MARKER	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED (ELABORATELY CARVED)	1/A
C-26	CUTLER	S. GARDNER	FEB. 12, 1869	SMALL MON	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/A

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
C-26	CUTLER	MISS FRANCES	JUNE 28, 1868	MON	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN (HEAVY)	TILTED	2/B
C-26	CUTLER	MISS LYDIA	DEC. 18, 1858	MON	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN (HEAVY)	TILTED	2/B
C-27	BATES	HULDAH KEITH	JAN. 4, 1874	HEAD	MARBLE/ GRANITE	REMOVE ALL YUCCA SHRUBS (BY OTHERS) DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE/ IMPACTED BY YUCCA SHRUBS	1/B
C-32	CROCKER	CHARLES E. VIOCA P.	APR. 23, 1921 MAR. 28, 1925	OBELISK	GRANITE	DISASSEMBLE. EXCAVATE LOWER BASE. CLEAN. NEW FOUNDATION. LEVEL LOWER BASE ON NEW FOUNDATION. REASSEMBLE. (LIFTING EQUIPMENT)	TILTED	1/C
C-32	CROCKER	CARRIE E.	NOV. 29, 1880	MON	MARBLE	DISASSEMBLE THE NINE FRAGMENTS. EXCAVATE LOWER BASE. CLEAN. RESET LOWER BASE. DRILL AND PIN BOTH MIDDLE BASE AND DIE. REASSEMBLE. INFILL	BROKEN	1/F

HANOVER CENTER CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION C

FANNIN-LEHNER
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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
C-32	CROCKER	FRED M. "OUR DARLING FREDDIE"	OCT. 11, 1877	MON	MARBLE	DISASSEMBLE. EXCAVATE LOWER BASE. CLEAN. RESET BASES. DRILL AND PIN DIE FRAGMENTS. PIN DIE TO BASES. INFILL	BROKEN/ TILTED	1/C
C-33	PHINNEY	BABY	N/A	CROSS	MARBLE	REMOVE SHRUBS AND REPLACE WITH SMALLER ONES. EXCAVATE CROSS. CLEAN. RESET	TILTED/ IMPACTED BY SHRUB ROOTS	1/A
C-34	STETSON	ABBY F.	MAY 3, 1858	HEAD	MARBLE	CLEAN. REMOVE IRON PINS IF POSSIBLE. MAYBE ENCAPSULATE. AD REP OF TWO FRAGMENTS. INFILL	BROKEN	1/B
C-34	STETSON	BETSEY A.	NOV. 27, 1901	MON	MARBLE	REMOVE ALL YUCCA SHRUBS. (BY OTHERS) EXCAVATE BASE. NEW FOUNDATION. CLEAN STONE AND BASE. REPIN. (NEEDS LIFT)	FALLEN/ IMPACTED BY YUCCA SHRUBS	1/C
C-34	STETSON	CHILDREN ELIZA A./ WILLIE A./ EMMIE D.	1864-1865	SMALL MON	MARBLE/ SANDSTONE	EXCAVATE BASE AND REMOVE PIN. CLEAN. RESET BASE. DRILL AND PIN MARBLE DIE. PIN DIE TO BASE. INFILL	BROKEN/ TILTED	1/B

HANOVER CENTER CEMETERY
HANOVER MA

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SECTION C

FANNIN-LEHNER
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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
C-36	BARSTOW	ALBERT	APR. 7, 1863	MON	MARBLE/ GRANITE	EXCAVATE BASE AND SET ASIDE. HAVE NEW GRANITE SLOTTED BASE MADE. SET BASE. CLEAN. MORTAR INTO BASE	FALLEN/ BASE IS BROKEN	1/B
C-36	BARSTOW	CAROLINE O.	DEC. 29, 1888	MARKER	MARBLE	EXCAVATE BASE AND SET ASIDE. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/ BASE IS BROKEN	1/B
C-36	BARSTOW	ALBERT HENRY	SEPT. 22, 1873	HEAD	MARBLE/ SANDSTONE	EXCAVATE BASE AND STONE. REMOVE PROPER LEFT IRON PIN. CLEAN. AD REP FRAGMENT TO DIE. RESET. INFILL	TILTED/ BROKEN	1/B
C-39	BAILEY	SUSAN M.	SEPT. 4, 1880	MON	GRANITE	EXCAVATE BASE AND DIE. CLEAN. RESET	TILTED	1/B
C-40	SYLVESTER	ELIJAH W. WALLACE B.	AUG. 26, 1906 OCT. 6, 1866	HEAD	MARBLE/ GRANITE	EXCAVATE AND SET ASIDE BASE. NEW BASE. SET BASE. CLEAN. MORTAR INTO BASE	FALLEN/ BASE IS BROKEN	1/B
C-40	SYLVESTER	ELIJAH W.	AUG. 26, 1906	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/B
C-41	RUMNEY	MARY	MAR. 25, 1866	HEAD	MARBLE/ GRANITE	EXCAVATE BASE AND STONE. CLEAN. RESET	TILTED	1/B

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SECTION C

FANNIN•LEHNER
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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
C-41	BARSTOW	ETTA H.	OCT. 6, 1870	MARKER	MARBLE	EXCAVATE. CLEAN. RESET POST. PIN	FALLEN/ UNPINNED	1/B
C-41FS	RUMNEY	MARY	MAR. 25, 1866	FOOT	MARBLE	EXCAVATE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE. AD REP FRAGMENTS TO DIE	FALLEN/ BROKEN	1/B
C-41	BARSTOW	GRACE B. FOSTER	APR. 4, 1834	MARKER	MARBLE	EXCAVATE. CLEAN. RESET POST. REPIN	FALLEN/ UNPINNED	1/B
C-41	BARSTOW	MARY E.	NOV. 21, 1927	MARKER	MARBLE	EXCAVATE. CLEAN. RESET POST. PIN MARKER TO POST	FALLEN	1/B

HANOVER CENTER CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION D

FANNIN•LEHNER
10/27/10

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
D-2	TURNER	RUTH	JULY 18, 1877	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	1/B
D-3	DAWES	WILLIAM	FEB. 19, 1867	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	2/B
D-3	DAWES	MRS. AMY	AUG. 29, 1855	HEAD	MARBLE	EXCAVATE. REMOVE STONE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ SLIGHTLY LOOSE IN PLACE	2/B
D-4	TOLMAN	GEORGE B. POLLY	1887 1884	MON	MARBLE/ GRANITE	SET DIE AND MARBLE BASE ON 2X4'S. EXCAVATE BASE. CLEAN. RESET BASE. REPIN MARBLE BASE TO GRANITE BASE. REPIN DIE TO MARBLE BASE	FALLEN	1/B
D-4	WILDER	SARAH ELIZABETH	SEPT. 28, 1836	MARKER	MARBLE	EXCAVATE AND EVALUATE. REMOVE PREVIOUS REPAIR. CLEAN. RESET BASE. DRILL AND PIN. ADHESIVE REPAIR OF DIE. PIN DIE TO BASE. INFILL	FALLEN/BROKEN	1/D
D-4	WILDER	LUCINDA E.	AUG. 2, 1871	MON	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/B

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D-4	WILDER	ISAAC M.	JULY 1, 1879	MON	MARBLE/ GRANITE	EXCAVATE BASES AND BRING TO LEVEL. REMOVE PREVIOUS REPAIR. CLEAN. PIN DIE TO MARBLE BASE (HEAVY)	FALLEN	1/C
D-5	WILDER	CALEB	MAY 22, 1818	HEAD	SLATE/ CONCRETE	SET STONE ASIDE. EXCAVATE & DISCARD CONCRETE. NEW BASE. CLEAN. SET NEW BASE. MORTAR INTO BASE	TILTED/BROKEN/ LOOSE IN CONCRETE	1/B
D-7	STETSON	CORDELIA E.	AUG. 22, 1860	HEAD	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN. TAMP EXISTING LEAD TIGHTLY AROUND DIE.	TILTED CARVER: OLDHAM, HANOVER	2/B
D-7	STETSON	ELIZA ANDREWS (ETC.)	MAR. 22, 1864	OBELISK	MARBLE/ SANDSTONE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. PIN ALL ELEMENTS	TILTED/ LOOSE ON BASE	2/B
D-11	WHITING	IDA E.	AUG. 9, 1863	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET	TILTED	2/A
D-13	BROOKS	MEHITABLE ANNIE LIZZIE	JULY 21, 1889 N/A N/A	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET	TILTED	1/A
D-13	BROOKS	SAMUEL	AUG. 26, 1858	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET	TILTED	1/A

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
D-13	HANSON	MEHITABLE BROOKS	JUNE 25, 1892	MON	MARBLE	REMOVE DIE. EXCAVATE BASE AND BRING TO LEVEL. CLEAN. RESET BASE. REPIN DIE TO BASE	TILTED/ LOOSE ON PINS	1/B
D-14	DWELLY	EDWIN B.	JUNE 29, 1850	MARKER	MARBLE	DISASSEMBLE. EXCAVATE BASE. REMOVE PIN REMNANTS FROM DIE. CLEAN. RESET BASE HIGHER. REPIN BASES AND DIE	SUNKEN/ LOOSE ON BASE	1/B
D-15	GOODRICH	MARIA E. "MOTHER"	1904	MON	GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REASSEMBLE	TILTED/ SLIDING OFF BASE	1/B
D-15	GOODRICH	GEORGE G.	JULY 28, 1866	MON	MARBLE/ SANDSTONE	SET DIE ASIDE. REMOVE CONCRETE FROM TOP OF MARBLE BASE. CLEAN. REDUCE SLIGHTLY BOTTOM OF DIE. DRILL AND PIN DIE TO MARBLE BASE	BROKEN/FALLEN	1/C
D-18	DWELLY	HULDAH B.	MAR. 6, 1883	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/A

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
D-18	DWELLY	AMY M.	APR. 5, 1880	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE. CLEAN. RESET GRANITE BASE. REMOVE IRON PINS. CLEAN. PIN MARBLE TO GRANITE BASE. DRILL AND PIN FRAGMENT TO DIE. PIN DIE TO MARBLE BASE. INFILL	BROKEN/ TILTED/ SUNKEN	1/C
D-19	PERCIVAL	SYLVANUS	JUNE 7, 1879	MARKER	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	2/A
D-25	BARSTOW	BETSEY EELLS	MAR. 8, 1871	HEAD	MARBLE	EXCAVATE. BRING TO LEVEL. CLEAN	TILTED	2/A
D-29	REED	HERBERT E.	MAY 12, 1883	MON	MARBLE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE AT GRADE. DRILL AND PIN MIDDLE BASE. PIN MIDDLE TO AT GRADE BASE. PIN DIE TO BASES.	BROKEN/ TILTED/ LOOSE ON BASE	1/C
D-30	CURTIS	WILLIAM	1871	MARKER	GRANITE	EXCAVATE. CLEAN.RESET	TILTED	2/A
D-33	MANN	MR. CALEB	FEB. 23, 1840	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN.RESET	TILTED	1/A
D-33	MANN	MOLLY	SEPT. 23, 1792	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN.RESET	TILTED	2/A

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D-33	MANN	NEWTON	AUG. 7, 1850	HEAD	MARBLE/ CONCRETE	EXCAVATE. REMOVE CONCRETE. NEW BASE? CLEAN. SET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/B
D-33FS	MANN	NEWTON	AUG. 7, 1850	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	1/A
D-33FS	MANN	MISS HENRIETTA	APR. 30, 1838	FOOT	MARBLE	EXCAVATE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN	1/B
D-33	MANN	ALMIRA	NOV. 1, 1817	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
D-33FS	MANN	ALMIRA	NOV. 1, 1817	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
D-33FS	MANN	MRS. LYDIA	SEPT. 11, 1834	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	2/A
D-33FS	MANN	BENJAMIN ESQ.	DEC. 11, 1861	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
D-33	MANN	ALBERT G.	JUNE 28, 1865	MON	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET ALERT: STONE HAS A PREVIOUS REPAIR	TILTED	2/B
D-34	BARSTOW	PHILIP	DEC. 28, 1765	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. TACK. CAP.	DELAMINATING/ RAISED/TILTED	1/B
D-34	HOUSE	DEBORAH	JULY 25, 1762	HEAD	SLATE	CLEAN. TACK. CAP.	DELAMINATING	1/B
D-34	BARSTOW	MR. SAMUEL	OCT. 23, 1730	HEAD	SLATE	CLEAN. TACK. CAP.	DELAMINATING	1/A

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
D-34	BRYANT	MRS. MARY BARSTOW	N/A (BELOW GRADE)	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET.	TILTED	1/B
D-34	CUSHING	MRS. RUTH	FEB. 12, 1822	HEAD	SLATE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
D-36	MANN	EZRA	NOV. 26, 1775	HEAD	SLATE/ CONCRETE	CLEAN. CAP	DELAMINATING	1/B
D-36FS	MANN	MRS. ABIGAIL	1785	FOOT	SLATE	CLEAN. AD REP. INFILL	BROKEN (HEADSTONE MISSING)	1/A
D-36	CURTIS	MR. SETH	JUNE 4, 1812	HEAD	SLATE/ CONCRETE	EXCAVATE ALL FRAGMENTS. CLEAN. NEW BASE. AD REP ALL FRAGMENTS. MORTAR INTO BASE. MAY NEED SMALL "BACKERS." INFILL	BROKEN	1/C
D-36FS	CURTIS	MR. SETH	JUNE 4, 1812	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
D-36	MANN	MRS. ANNA	MAR. 14, 1789	MARKER	SLATE/ CONCRETE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED	1/B
D-36	MANN	MISS SARAH	DEC. 2, 1832	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
D-37	STODDARD	SARAH ABBY H.	MAY 4, 1844	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN/TILTED	1/B
D-38	CURTIS	DEBORAH	APR. 5, 1881	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET	TILTED	2/A
D-38	CURTIS	JOHN	DEC. 5, 1851	HEAD	MARBLE/ CONCRETE	REMOVE PREVIOUS REPAIR. CLEAN. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	BROKEN/FALLEN/ STONE IS LOSING ITS BINDER	1/B
D-41	CURTIS	MR. WILLIAM	JAN. 20, 1779	HEAD	SLATE	CLEAN. TACK. CAP.	DELAMINATING	1/A
D-41	CURTIS	MRS. MARTHA	NOV. 30, 1786	HEAD	SLATE	STONE FIRMLY IN CONCRETE. CLEAN. TACK. CAP.	BROKEN/ DELAMINATING	1/A
D-42FS	CURTIS	MR. JOB	APR. 6, 1804	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
D-43	JOSSSELYN	MARY C.	AUG. 2, 1854	HEAD	MARBLE/ CONCRETE (MAY BE A BASE ALSO)	EXCAVATE. CLEAN. NEW IN-GROUND BASE? MORTAR BOTTOM FRAGMENT INTO BASE. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	BROKEN/FALLEN	1/C
D-43	JOSSSELYN	OREN	JUNE 23, 1880	HEAD	MARBLE/ CONCRETE (MAY BE A BASE ALSO)	EXCAVATE. CLEAN. NEW IN-GROUND BASE? MORTAR ITO BASE	TILTED/ LOOSE IN BASE	1/C

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
D-43	JOSSELYN	OREN C.	APR. 6, 1819	HEAD	MARBLE/	EXCAVATE. CLEAN. NEW	TILTED/	1/B
		JANE R.	JAN 2, 1830		CONCRETE	BASE. SET BASE. MORTAR INTO BASE	LOOSE IN GROUND	
							CARVER: L. JOHNSON	

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-3	SYLVESTER	EDMUND QUINCY	SEPT. 22, 1942	HEAD	GRANITE/ CONCRETE	EXCAVATE. DISCARD CONCRETE. NEW IN-GROUND	TILTING/ LOOSE IN GROUND	1/C
						BASE. CLEAN. MORTAR INTO BASE.		
E-6	LITCHFIELD	LUTHER	NOV. 4, 1908	HEAD	MARBLE	EXCAVATE AND EVALUATE MARBLE	FALLEN	1/B
						BASE. CLEAN. RESET		
						BASE. MORTAR INTO BASE.		
E-6	LITCHFIELD	LUCINDA W.	AUG. 21, 1879	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE.	TILTED/ LOOSE IN BASE	1/B
E-6	LITCHFIELD	MARIE E.	NOV. 22, 1864	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-7	TOWER	CHARLES L. REBECCA M. ETC.	1895 1907	OBELISK	MARBLE	DISASSEMBLE. EXCAVATE BASES. REMOVE TILTED FOUNDATION? NEW FOUNDATION. REASSEMBLE.	TILTED/ MOVING OFF BASE (NEEDS LIFT)	1/D
E-14	SMITH	FRANCE	N/A	MON	GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN.	TILTING	2/B

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E-19	DYER	MARIA F.	AUG. 27, 1874	SMALL MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REASSEMBLE AND REPIN DIE TO MARBLE BASE.	TILTING/ LOOSE ON PIN	1/B
E-19	DYER	THEODORE	AUG. 29, 1891	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REASSEMBLE AND REPIN DIE TO MARBLE BASE.	TILTED/ LOOSE ON PIN	1/B
E-20	BONNEY	WILLIAM E. EMELINE M.	NOV. 7, 1917 JULY 9, 1887	MON	MARBLE	BRING TO LEVEL. CLEAN.	TILTED/ ELEMENTS APPEAR FIRMLY JOINED (HEAVY)	2/C
E-23	PHILLIPS	WILLIAM	MAY 15, 1869	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE GRANITE BASE. CLEAN. RESET GRANITE BASE. DRILL AND PIN MARBLE BASE. PIN DIE TO MARBLE BASE. INFILL.	DIE: SEVERE CRACKS. BASE: BROKEN.	1/C
E-24	JOSSELYN	ABRAHAM POLLY	APR. 27, 1860 NOV. 20, 1875	HEAD	MARBLE/ CONCRETE	REMOVE YUCCA PLANT (BY OTHERS) EXCAVATE CLEAN. RESET.	TILTED/ IMPACTED BY YUCCA PLANT	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-31	REED	FRANK ABBOTT EVERETT HOWARD	1889 1852	MON	GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN.	TILTED	2/B
E-32	STUDLEY	GEORGE	FEB. 13, 1895	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-33	KEENE	ELMER L.	FEB. 24, 1851	SMALL MON	MARBLE	DISASSEMBLE. APPEARS TO BE A BASE BELOW GRADE. CLEAN. RESET BELOW GRADE BASE HIGHER. DRILL AND PIN MARBLE BASE. REASSEMBLE AND PIN DIE TO MARBLE BASE. INFILL.	BASE: BROKEN DIE: LOOSE ON BASE	1/B
E-33	MONROE	TEMPERANCE C	MAR. 6, 1884	HEAD	MARBLE	EXCAVATE BASE AND BOTTOM FRAGMENT. CLEAN. RESET BASE AND BOTTOM FRAGMENT. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL.	FALLEN/BROKEN	1/B
E-36	WINSLOW	ABIGAIL	JUNE 2, 1877	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET.	TILTED	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-37	GREEN	GEORGE H.	NOV. 14, 1889	SMALL MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REASSEMBLE AND PIN DIE TO BASE.	TILTED/ LOOSE ON PINS	1/A
E-37	GREEN	GEORGE "FATHER" AGNES M. "MOTHER"	AUG. 12, 1880 AUG. 18, 1880	DOUBLE MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REASSEMBLE AND PIN DIE TO BASE.	TILTED/ LOOSE ON PINS	1/B
E-44	HATCH	SANFORD ZILPHA A.	APR. 24, 1882 MAY 13, 1882	HEAD	MARBLE	EXCAVATE. CLEAN. BRING TO LEVEL. PIN BASE FRAGMENTS AROUND STONE.	TILTED/ BASE: BROKEN	1/B
E-47	HATCH	ALICE	MAR. 18, 1878	HEAD	MARBLE	EXCAVATE BASE AND SET ASIDE. NEW IN- GROUND BASE. CLEAN. MORTAR INTO BASE.	FALLEN	1/C
E-47	STETSON	RUTH	APR. 30, 1882	HEAD	MARBLE/ SANDSTONE	EXCAVATE AND EVALUATE BASE. REMOVE PREVIOUS REPAIR. CLEAN. RESET BASE. MORTAR INTO BASE.	FALLEN	1/B
E-50	THOMPSON	BATHSHUA	FEB. 20, 1892	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	2/B

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E-50	THOMPSON	LYMAN	MAR. 2, 1890	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE.	TILTED/ LOOSE IN BASE	1/B
E-52	STARLING? DARLING?	MR. GEORGE	(READABLE AFTER CLEANING)	HEAD	SLATE	REMOVE PREVIOUS REPAIR. CLEAN. DRILL AND PIN. CAP. INFILL.	BROKEN/ STONE COVERED WITH LICHEN	1/C
E-57	LOVEWELL	GEORGE B.	APR. 2, 1888	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	1/B
E-58	CHAMBERLAIN	J. W.	N/A	HEAD	MARBLE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET.	TILTED/MILITARY MARKER: "CO I MASS INF"	1/A
E-62	CHAMBERLAIN	SOPHIA	OCT. 23, 1881	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET.	TILTED	2/B
E-64	STUDLEY	JOHN	JUNE 28, 1867	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-65	BATES	SILAS W.	DEC. 13, 1879	HEAD	MARBLE/ GRANITE	EXCAVATE. REMOVE CONCRETE AND BROKEN FRAGMENT FROM BASE. CLEAN. RESET BASE. MORTAR BOTTOM FRAGMENT INTO BASE. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL.	FALLEN/BROKEN	1/B

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E-67	TORREY	MARTIN S.	MAR. 23, 1848	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-67	TORREY	CARRIE SHEPARD	OCT. 30, 1865	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET.	TILTED	2/B
E-68	BATES	TEMPERANCE C.	JULY 8, 1885	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
E-68	TUBBS	EUNICE W.	FEB. 22, 1879	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
E-68	TUBBS	LUCY	MAR. 22, 1866	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET.	TILTED	2/B
E-69	PERRY	DIANA	MAR. 2, 1881	MON	MARBLE	DISASSEMBLE. REMOVE PREVIOUS REPAIR. CLEAN. REASSEMBLE. REPIN DIE TO MARBLE BASE. (BOTTOM BASE IS LEVEL)	LOOSE ON PINS CARVER: FAIRBANK	1/A
E-70	JOSSSELYN	FRANCIS HERBERT	SEPT. 7, 1852	MON	MARBLE	DISASSEMBLE/ CLEAN. REASSEMBLE. REPIN (BOTTOM BASE IS NEARLY LEVEL)	LOOSE ON BASE	1/B
E-70	JOSSSELYN	IRA SARAH	1900 1896	MON	MARBLE	LIFT AND SET ASIDE. NEW FOUNDATION. CLEAN. RESET ON FOUNDATION (HEAVY)	TILTED	1/C

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-70	BAILEY	GAD THANKFUL	DEC. 13, 1862 MAR. 28, 1862	MON	MARBLE/ SANDSTONE	TEMPORARY MEASURE: EXCAVATE. BRING TO LEVEL. CLEAN.	TILTED/ STONE HAS BEEN CONCRETED TO BACK OF MARBLE BASE	1/A
E-72	JONES	REBECCA E.	MAY 13, 1853	HEAD	MARBLE/ GRANITE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET BOTTOM FRAGMENT AND BASE. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL.	BROKEN/TILTED	1/B
E-73	BRIGGS	JANE P.	SEPT. 26, 1882	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/B
E-74	SYLVESTER	EDMUND	JUNE 16, 1757	HEAD	MARBLE/ CONCRETE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
E-75	CURTIS	SARAH	MAR. 15, 1854	HEAD	MARBLE	EXCAVATE. AFTER REMOVING STONE REMOVE CONCRETE. CLEAN. RESET BASE. MORTAR INTO BASE.	TILTED	1/B
E-76	HATCH	BENJAMIN W.	DEC. 19, 1853	HEAD	MARBLE	SET ASIDE STONE. EXCAVATE BASE. REMOVE CONCRETE. CLEAN. RESET BASE. MORTAR INTO BASE.	TILTED/ LOOSE IN BASE	1/A

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E-76	HATCH	ANN M.	1927	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-77	STETSON	JOHN H.	NOV. 9, 1882	MON	MARBLE	EXCAVATE. BRING TO LEVEL. CLEAN.	TILTED	2/A
E-79	GURNEY	ABBIE A.	SEPT. 23, 1870	MON	MARBLE/ GRANITE	EXCAVATE FIRMLY JOINED MARBLE AND GRANITE BASES AND SET ASIDE. REMOVE SLATE FROM SLOT. CLEAN. FILL SLOT WITH MORTAR. REPIN DIE TO MARBLE BASE.	FALLEN/ CARVER: BRYANT & CO.	1/B
E-79	STUDLEY	SARAH E.	JULY 9, 1869	MON	MARBLE/ GRANITE	SET DIE ASIDE. EXCAVATE FIRMLY JOINED MARBLE AND GRANITE BASES AND SET ASIDE. CLEAN. RESET BASE. REPIN DIE TO MARBLE BASE. AD REP CHIPS FROM BACK. INFILL.	TILTED/ LOOSE ON BASE/ CHIPPING ON LOWER BACK CENTER CARVER: BRYANT & CO.	1/B
E-79	STUDLEY	HIRAM AUGUSTUS	SEPT. 22, 1849	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-80	WHITING	PRESTON S.	1919	SLANT FACE MARKER	GRANITE	EXCAVATE. CLEAN. RESET.	TILTED	2/A

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E-81	BALDWIN	MISS HANNAH	NOV. 2, 1789	HEAD	SLATE	CLEAN. TACK. CAP.	DELAMINATING	1/A
E-82	CHURCH	BENJAMIN	DEC. 22, 1889	MON	MARBLE/ GRANITE	EXCAVATE. LIFT AND SET ASIDE. CLEAN. LIFT BACK ON NEW FOUNDATION.	TILTED	1/B
E-82	CHURCH	DEACON SAMUEL S.	MAY 7, 1883	MON	MARBLE	DISASSEMBLE. EXCAVATE LOWER BASE. CLEAN. RESET LOWER BASE. REPIN MARBLE BASE TO LOWER BASE. REPIN DIE TO BASE.	FALLEN	1/C
E-84	HOUSE	ASENATH C. ASENATH AUGUSTA	FEB. 23, 1863 APR. 8, 1863	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-85	BASS	REV. BENJAMIN	MAY 24, 1756	HEAD	SLATE	SET STONE ASIDE. EXCAVATE TO BASE, WHICH IS LEVEL. CLEAN TOP AND SLOT OF BASE. MORTAR STONE INTO BASE.	TILTED/ LOOSE IN BASE CARVER: N. FARLEY, CONCORD, NH	1/A
E-85FS	BASS	REV. BENJAMIN	MAY 24, 1756	FOOT	SLATE	EXCAVATE. REMOVE CONCRETE. RESET.	TILTED	1/A
E-85	BASS	ELISHA	JAN. 14, 1867	HEAD	SLATE/ SANDSTONE	EXCAVATE. CLEAN. RESET.	TILTED	1/A

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-85	BASS	MARY G.	MAY 1, 1862	HEAD	SLATE	EXCAVATE. CLEAN. RESET. TACK. CAP.	TILTED/ DELAMINATING	1/B
E-88	MAGOUN	ABNER MARY H.	NOV. 19, 1868 JUNE 1, 1893	MON	GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN (HEAVY)	TILTED	1/B
E-90FS	STETSON	MICHAL	MAY 17, 1851	FOOT	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED/SUNKEN CARVER: D. H. BOWER	1/A
E-90FS	JUDD	DRYDEN CELIA	JULY 14, 1850 JULY 15, 1860	FOOT	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	1/A
E-91	JOSSELYN	ELIZA	FEB. 24, 1854	HEAD	MARBLE/ SANDSTONE	SET STONE ASIDE. EXCAVATE AND EVALUATE BASE. CLEAN. RESET BASE? NEW IN- GROUND BASE? MORTAR INTO BASE.	TILTED/ LOOSE IN BASE CARVER: WENTWORTH & TWOMBLY, BOSTON	1/D
E-94	ROSE	SETH, JR.	APR. 18, 1859	MARKER	MARBLE	REMOVE PREVIOUS REPAIR. CLEAN. DRILL AND PIN. INFILL.	BROKEN	1/B
E-94	ROSE	LUCY D.	MAR. 20, 1876	MARKER	MARBLE/ SANDSTONE	DISASSEMBLE. EXCAVATE. REMOVE ALL PREVIOUS REPAIR. CLEAN. RESET MARBLE AND SANDSTONE BASES. DRILL AND PIN DIE. PIN DIE TO MARBLE BASE. INFILL.	BROKEN	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-94	ROSE	ELIZA D.	APR. 17, 1890	MARKER	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
E-94	ROSE	CHARLES	FEB. 1884	MARKER	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
E-94	ROSE	CHARLES EDWIN	FEB. 26, 1883	MARKER	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
E-94	CHAMBERLIN	E. ANNIE	MAR. 23, 1873	MARKER	MARBLE	REMOVE IRON PIN AND PREVIOUS REPAIR. CLEAN. DRILL AND PIN. INFILL.	BROKEN	1/A
E-94	ROSE	ANN B.	MAR. 1897	MARKER	MARBLE	REMOVE YUCCA AND AND SHRUB (BY OTHERS) EXCAVATE. CLEAN. RESET.	TILTED/ IMPACTED BY YUCCA AND VOLUNTEER SHRUB	1/A
E-95	SALMOND	ELIZA	JAN. 5, 1891	MARKER	GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN.	TILTED	2/B
E-95	CROCKER	NATHANIEL ANNA L. SMITH ANDREW TILDEN	JAN. 20, 1847 DEC. 12, 1846 APR. 29, 1831	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET. (HEAVY)	TILTED	1/B
E-109	PERRY	PEREZ FANNY	MAR. 5, 1855 MAR. 19, 1881	MON	MARBLE	EXCAVATE. CLEAN. RESET. (HEAVY)	TILTED	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
E-109	PERRY	PEREZ E.	1905	MON	GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REASSEMBLE (HEAVY)	TILTED	1/B
E-110	LITTLE	ABIGAIL ZILPHA ANN	JUNE 5, 1850 NOV. 23, 1849	HEAD	MARBLE	EXCAVATE BASE AND EVALUATE. REMOVE LOW BOTTOM FRAGMENT? CLEAN. RESET BASE. MORTAR INTO BASE.	FALLEN/BROKEN	1/B

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-21	STETSON	LUCY	OCT. 3, 1875	HEAD	MARBLE/ GRANITE	EXCAVATE. ATTEMPT TO REMOVE CONCRETE WITHOUT DAMAGING STONE. ORDER NEW GRANITE BASE. SET BASE. MORTAR INTO BASE	TILTED/ BASE BROKEN CARVER: BRYANT & CO., BROCKTON	1/C
F-24	CURTIS?	WILLIAM B. (ETC.)	1884	MON	GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN.(HEAVY; MAY NEED LIFT)	TILTED	1/C
F-30	STUDLEY	ROBERT H.	MAY 1, 1885	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/ CARVER: FITZGERALD	1/B
F-30	BONNEY	JOSIAH	MAY 8, 1872	HEAD	MARBLE	EXCAVATE STONE AND BASE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/B
F-30FS	BONNEY	JOSIAH	MAY 8, 1872	FOOT	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/FALLEN	1/A
F-30FS	BONNEY	MARCY W.	MAY 23, 1875	FOOT	MARBLE	EXCAVATE. INVESTIGATE FOR BASE. NEW BASE? CLEAN. SET BASE. MORTAR INTO BASE	TILTED/SUNKEN	1/B

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-31	HOWLAND	ALVIN	SEPT. 26, 1864	HEAD	MARBLE	EXCAVATE. NEW BASE? CLEAN. SET BASE. MORTAR INTO BASE	TILTED/BROKEN	1/B
F-31	HOWLAND	CORP. CHARLES A.	N/A	HEAD	MARBLE	EXCAVATE. REMOVE PREVIOUS REPAIR. (CONCRETE) NEW BASE? SET BASE. CLEAN. MORTAR INTO BASE	TILTED/ MILITARY MARKER	2/B
F-32FS	FINNEY	B. F.	N/A	FOOT	MARBLE	EXCAVATE. CLEAN. RESET. (NO HEADSTONE)	TILTED	1/A
F-32	ANDERSON	ELIZABETH "MOTHER"	1904	MON	GRANITE	SET ASIDE MONUMENT. EXCAVATE AND RESET CONCRETE FOUNDATION SLIGHTLY BELOW GRADE. CLEAN. LEVEL MONUMENT ON FOUNDATION (HEAVY)	TILTED/ LOOSE ON FOUNDATION	1/B
F-33	BROOKS	JOSEPH LEWIS	SEPT. 13, 1865	HEAD	MARBLE	EXCAVATE STONE AND BASE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ OUT OF BASE	1/B
F-33	RAMSDELL	S. LYMAN	APR. 4, 1871	MON	MARBLE/ GRANITE	REMOVE DIE. EXCAVATE THE BASES. CLEAN. RESET BASES. DRILL AND PIN DIE (3 FRAGMENTS). PIN DIE TO MARBLE BASE. INFILL	BROKEN/TILTED CARVER: S. ABINGTON	1/E

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-54	BATES	HENRY S.	AUG. 30, 1908	MON	GRANITE	DISASSEMBLE. EXCAVATE BASE. REMOVE AND REPLACE OLD FOUNDATION? CLEAN. RESET BASE ON FOUNDATION. REASSEMBLE (NEEDS LIFT)	TILTED/LOOSE	1/C
F-54	BATES	ANGIE S.	MAR. 10, 1885	MON	MARBLE/ GRANITE	REMOVE DIE. EXCAVATE THE TWO BASES. CLEAN. REMOVE AND REPLACE OLD FOUNDATION? RESET BASES ON FOUNDATION. REPIN DIE TO MARBLE BASE	TILTED	1/C
F-55	GARDNER	ANDREW	JAN. 10, 1878	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/A
F-58	PRATT	BENJAMIN C.	JUNE 16, 1875	MON	MARBLE	DISASSEMBLE. EXCAVATE AT GRADE BASE. MIDDLE MARBLE BASE NOT REPAIRABLE. ORDER NEW MARBLE BASE WITH SLOT FOR TENON. CLEAN DIE AND AT- GRADE BASE. RESET BASE. DRILL & PIN SIDE FRAGMENT TO DIE. PIN NEW BASE TO AT-GRADE BASE. PIN DIE AND TENON TO NEW BASE. INFILL	BROKEN/FALLEN (REMOVE YUCCA PLANT)	1/C

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-58	PRATT	MRS. REBECCA	DEC. 1, 1844	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	1/B
F-58	PRATT	LYDIA C.	JULY 6, 1856	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED/ (REMOVE YUCCA PLANT)	1/B
F-59	CUSHING	NATHANIEL ELIZABETH B.	1864 1901	MON	GRANITE	EXCAVATE. SET ASIDE NEW FOUNDATION. CLEAN. LEVEL ON FOUNDATION (NEEDS LIFT)	TILTED/SUNKEN	2/D
F-60	EELLS	PRISCILLA	APR. 5, 1910	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/B
F-61	CLARK	GEORGE EDWARD "EDDIE"	NOV. 2, 1881	MON	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/ (REMOVE YUCCA PLANT)	2/B
F-61	CLARK	WALDO B. HENRY L.	OCT. 13, 1878 AUG. 15, 1876	DOUBLE MON	MARBLE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET AT-GRADE BASE. PIN MIDDLE MARBLE BASE TO AT-GRADE BASE. DRILL AND PIN FRAGMENT TO DIE. PIN DIE TO BASE. INFILL	BROKEN/TILTED	1/C
F-61	CLARK	HENRY ELLIOT	JAN. 7, 1885	MON	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET; INVESTIGATE LARGE FRAGMENT IN GROUND	TILTED	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-64	EELLS	JOHN P.	NOV. 25, 1883	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET GRANITE BASE. SET MARBLE BASE ON GRANITE BASE. REPIN DIE TO BASE (HEAVY; NEEDS LIFT)	TILTED/ SLIDING OFF BASE	1/B
F-64	LAPHAM	LUTHER	1917 MAY 5	MON	MARBLE	EXCAVATE. BRING TO LEVEL. CLEAN. RESET	TILTED	2/B
F-65	THAYER	CHARLES E. "FATHER" MARY D. "MOTHER"	JAN. 28, 1910 NOV. 9, 1894	MON	GRANITE	SET MONUMENT ASIDE. CLEAN. NEW FOUNDATION SET MONUMENT ON NEW FOUNDATION	TILTED/ ROCKING ON FOUNDATION	1/C
F-66	MERRILL	GEORGE B. ANNA A. PERRY	1907	MON	MARBLE	EXCAVATE. BRING TO LEVEL. CLEAN. RESET	TILTED	2/B
F-67	FRASER	AGNES L. GEORGIANNA	OCT. 6, 1863 OCT. 13, 1863	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	1/B
F-67FS	FRASER	AGNES L. GEORGIANNA	OCT. 6, 1863 OCT. 13, 1863	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
F-69	WHITING	SYLVANUS LUCY BATES	FEB. 11, 1859 NOV. 21, 1874	HEAD	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN. RESET	TILTED	2/B
F-69	WHITING	MARY	DEC. 9, 1846	HEAD	MARBLE	EXCAVATE. CLEAN. NEW BASE. SET BASE MORTAR INTO BASE	BROKEN (BELOW GRADE)	1/B

LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-71	STURTEVANT	R. M.	JAN. 14, 1919	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN MILITARY STYLE HEADSTONE	2/A
F-72	CHURCH	CAROLINE STETSON	JUNE 18, 1883	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET GRANITE BASE. SET MARBLE BASE ON GRANITE BASE. REPIN DIE TO BASE	TILTED/ LOOSE ON PIN	1/B
F-72	MC LAUGHLIN	MORRIS C.	DEC. 3, 1876	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET GRANITE BASE. REPIN MARBLE TO GRANITE BASE. REPIN DIE TO MARBLE BASE	TILTED/ LOOSE ON PINS (REMOVE YUCCA PLANT)	1/B
F-72	MC LAUGHLIN	GEORGE I.	SEPT. 5, 1903	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET GRANITE BASE. REPIN MARBLE TO GRANITE BASE. REPIN DIE TO MARBLE BASE (HEAVY)	TILTED/ LOOSE ON PINS (REMOVE YUCCA PLANT)	1/B
F-73	STUDLEY	KETURAH	DEC. 22, 1880	HEAD	MARBLE/ GRANITE	REMOVE DIE FROM SLOT. EXCAVATE BASE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
F-73	CURTIS	ROBERT S.	APR. 1, 1873	HEAD	MARBLE	REMOVE DIE FROM SLOT. EXCAVATE BASE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE/ DETERIORA- TING	1/B

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LOT #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
G-17	STURTEVANT	ZENAS G.	MAR. 15, 1885	MON	MARBLE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN.	TILTED	2/B
G-25	LARKUM	LESTER S.	SEPT. 2 1883	HEAD	MARBLE	EXCAVATE BASE FROM BELOW GRADE. CLEAN. RESET BASE. REPIN DIE TO BASE	OUT OF BASE	1/A
G-33	HANDY	ANNIE	MAR. 1, 1883	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/A
G-43	CLARK	WILLIAM	NOV. 23, 1823	MON	MARBLE	EXCAVATE. BRING TO LEVEL. CLEAN	TILTED	2/B
G-50	CORBIN	FRANCIS O. MAHALA (ETC.)	1906 1921	MON	MARBLE	CLEAN. REPIN TOP OF URN TO FOOT. PIN URN TO MONUMENT	URN IS FALLEN	1/B
G-50	CORBIN	GEORGE LLOYD "GEORGIE"	MAY 1, 1883	MARKER	MARBLE	EXCAVATE BELOW GRADE BASE. CLEAN. RESET BASE. REPIN DIE TO BASE	FALLEN OFF BASE	1/B
G-55	GODDARD	JOSEPH A. JULIA A. M.	AUG. 4, 1910 SEPT. 27, 1897	MON	GRANITE	NO TREATMENT AT THIS TIME	CARVER: JAMES CRAIG, QUINCY, MASS.	
G-61	SMITH	G. E.	N/A	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BOTTOM FRAGMENT. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	FALLEN/BROKEN MILITARY MARKER: "CO. E MASS INFANTRY"	1/B

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OLD-1	TILDEN	JOB LYDIA	SEPT. 30, 1830 AUG. 23, 1848	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED/ CARVER: L. JOHNSON	2/A
OLD-1	TILDEN	MRS. ELIZABETH	MAR. 2, 1799	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN/SUNKEN CARVER: SETH JONES PRATT	1/C
OLD-1	TILDEN	SARAH	APR. 8, 1757	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET. CAP	TILTED/ DELAMINATING	1/B
OLD-1	BAILY	MRS. SARAH	OCT. 8, 1740	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED CARVER: "NORTH RIVER CARVER"	1/A
OLD-1	TILDEN	SALLY	JULY 8, 1880	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/B
OLD-1	STUDLY	MR. JOSEPH	JUNE 16, 1766	HEAD	SLATE	EXCAVATE. REMOVE STUMP (OTHERS) CLEAN. RESET BOTTOM FRAGMENT. AD REP. INFILL	BROKEN	1/B
OLD-1FS	STUDLY	MR. JOSEPH	JUNE 16, 1766	FOOT	SLATE	CLEAN. RESET BEHIND HEADSTONE	FALLEN BEHIND HEADSTONE CARVER: JOHN NEW	1/A

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OLD-1	WHITING	MRS. ANNE	JULY 24, 1789	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET (HEAVY)	TILTED	1/B
OLD-1	WHITING	MR. HOMER	OCT. 11, 1793	HEAD	SLATE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET	TILTED	1/B
OLD-1	WHITING	PRISCILLA	JAN. 15, 1851	HEAD	SLATE	CLEAN. TACK. CAP	DELAMINATING	1/A
OLD-1	WHITING	MR. ABEL	JAN. 24, 1822	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED	1/A
OLD-1	TURNER	MARY E.	OCT. 31, 1832	HEAD	MARBLE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED	2/A
OLD-1	N/A	N/A	JAN. 21, 1857	HEAD	MARBLE	SEARCH FOR/INQUIRE ABOUT TOP FRAGMENT. EXCAVATE. CLEAN. RESET BOTTOM FRAGMENT	TILTED/TOP FRAGMENT MISSING. CARVER: D. W. BOWKER, ABINGTON	1/A
OLD-1	RAMSDELL	MRS. SARAH	AUG. 4, 1773	HEAD	SLATE	EXCAVATE ALL FRAGMENTS. CLEAN. EVALUATE FOR CONSERVATION	BROKEN/ MULTIPLE FRAGMENTS	1/C
OLD-1FS	RAMSDELL	MRS. SARAH	AUG. 4, 1773	FOOT	SLATE	EXCAVATE. CLEAN. AD REP. RESET. INFILL	BROKEN/ TILTED/ DELAMINATING	1/C

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OLD-1	RAMSDELL	MR. THOMAS	MAR. 13, 1757	HEAD	SLATE	EXCAVATE. CLEAN. RESET. CAP	TILTED/ DELAMINATING	1/B
OLD-1	RAMSDELL	MRS. MARY	JUNE 1, 1754	HEAD	SLATE	EXCAVATE. CLEAN. RESET TACK. CAP	TILTED/ DELAMINATING	1/A
OLD-1FS	RAMSDELL	MRS. MARY	JUNE 1, 1754	FOOT	SLATE	EXCAVATE. CLEAN. AD REP. RESET FACING EAST. INFILL	TILTED/ DELAMINATING	1/B
OLD-1	ELLIS	MRS. RUTH	JAN. 10, 1772	HEAD	SLATE	EXCAVATE. BOTTOM FRAGMENT IN CONCRETE. CLEAN. AD REP. INFILL	BROKEN	1/B
OLD-1FS	BARKER	MR. ELISHA	OCT. 18, 1781	FOOT	SLATE	EXCAVATE. CLEAN. RESET FACING EAST	LOOSE IN GROUND CARVER: BILDAD WASHBURN	1/A
OLD-1	MERRITT	MISS SARAH	APR. 11, 1835	HEAD	MARBLE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED	2/A
OLD-1FS	WHITING	HOMER	FEB. 5, 1854	FOOT	MARBLE	CLEAN. RESET IN BACK OF HEADSTONE	FALLEN	1/A
OLD-1FS	WHITING	ALBERT	OCT. 12, 1859	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A

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OLD-1FS	WHITING	ABEL H.	OCT. 9, 1842	FOOT	MARBLE	EXCAVATE. CLEAN. RESET BOTTOM FRAGMENT IN CONCRETE. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	FALLEN/BROKEN	1/B
OLD-1	WHITING	MR. LEWIS	SEPT. 26, 1826	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED	2/A
OLD-1	WHITING	MARTIN	OCT. 18, 1793	HEAD	SLATE	EXCAVATE. CLEAN. RESET TACK.CAP	TILTED/ DELAMINATING	1/B
OLD-1	RAMSDELL	MISS HANNAH	AUG. 11, 1807	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1FS	RAMSDELL	MISS HANNAH	AUG. 11, 1807	FOOT	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED	1/A
OLD-1FS	RAMSDELL	MRS. ELIZABETH	JUNE 19, 1786	FOOT	SLATE	EXCAVATE. CLEAN. RESET IN ALIGNMENT WITH HEADSTONE	TILTED	2/A
OLD-1FS	RAMSDELL	MRS. ELIZABETH	OCT. 30, 1811	FOOT	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET IN ALIGNMENT WITH HEADSTONE	TILTED	2/A
OLD-1	BAILEY	SYLVIA B.	MAY 17, 1792	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE? CLEAN. RESET. TACK.CAP	TILTED/ DELAMINATING	1/B

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OLD-1FS	BAILEY	SYLVIA B.	MAY 17, 1792	FOOT	SLATE	EXCAVATE. CLEAN. RESET TACK.CAP	TILTED/ DELAMINATING	1/A
OLD-1	BAILEY	POLLEY	1788	HEAD	SLATE	SEARCH FOR/INQUIRE ABOUT MISSING LARGE FRAGMENT. EXCAVATE. CLEAN. RESET	TILTED/ HALF OF STONE MISSING	1/A
OLD-1FS	BAILEY	POLLEY	1788	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	BAILEY	MRS. SILVESTER	JUNE 27, 1788	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	CURTIS	MRS. TABITHA	JAN. 25, 1789	FOOT	SLATE	EXCAVATE. NEW BASE? CLEAN. RESET HIGHER	TILTED/SUNKEN DELAMINATING	1/B
OLD-1FS	WHITING	CALEB	SEPT. 29, 1792	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	WHITING	SAGE MAN	OCT. 11, 1793	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	1/A
OLD-1FS	WHITING	LUCY	JUNE 15, 1840	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	WHITING	CALEB	MAY 20, 1848	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1	WHITING	SUSAN G.	NOV. 25, 1842	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	WHITING	SUSAN G.	NOV. 25, 1842	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1	HUBBART	DR. PETER	OCT. 20, 1793	HEAD	SLATE/ GRANITE	EXCAVATE. BRING TO LEVEL. CLEAN. AD REP CHIP. INFILL	TILTED/ CHIP OFF LOWER EDGE	1/C

HANOVER CENTER CEMETERY
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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-1FS	HUBBART	DR. PETER	OCT. 20, 1793	FOOT	SLATE	EXCAVATE. CLEAN. AD REP. RESET. INFILL	BROKEN	1/A
OLD-1	WHITE	MRS. SARAH L.	AUG. 26, 1790	HEAD	SLATE	CLEAN. TACK. AD REP. CAP	DELAMINATING	1/B
OLD-1FS	WHITE	MRS. SARAH L.	AUG. 26, 1790	FOOT	SLATE	EXCAVATE. CLEAN. AD REP. RESET. INFILL	BROKEN	1/A
OLD-1FS	SYLVESTER	MR. JOEL MRS. SARAH	OCT. 3, 1836 SEPT. 10, 1820	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1	CHADDOCK	CAPT. JOSEPH	JUNE 1812	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE ON BASE	1/B
OLD-1	DWELLY	MRS. AVICE	MAR. 19, 1831	HEAD	MARBLE	CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	FALLEN/BROKEN	1/B
OLD-1	TORREY	MR. DAVID MRS. MIRIAM	JULY 5, 1785 NOV. 3, 1807	DOUBLE HEAD	SLATE	EXCAVATE. CLEAN. RESET BOTTOM FRAGMENT. AD REP. INFILL	FALLEN/BROKEN	1/B
OLD-1FS	TORREY	MR. DAVID MRS. MIRIAM	JULY 5, 1785 NOV. 3, 1807	FOOT	SLATE	EXCAVATE. CLEAN. AD REP. RESET. INFILL	TILTED/ DELAMINATING	1/A
OLD-1	PRATT	NATHANIEL	FEB. 24, 1844	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1FS	PRATT	NATHANIEL	FEB. 24, 1844	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-1FS	ROGERS	MRS. HANNAH	MAY 12, 1807	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1	ROGERS	MR. CALEB	MAR. 26, 1833	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1	HATCH	MRS. BETHIA	NOV. 7, 1782	HEAD	SLATE	CLEAN. TACK. CAP	DELAMINATING	1/B
OLD-1	HATCH	MR. ISRAEL	DEC. ? 1781	HEAD	SLATE	EXCAVATE. CLEAN. RESET BOTTOM FRAGMENT. AD REP. INFILL	BROKEN	1/C
OLD-1FS	HATCH	MR. GAMALIEL	APR. 3, 1767	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	HATCH	MRS. SUSANNA	AUG. 24, 1782	FOOT	SLATE	EXCAVATE. CLEAN. RESET. CAP	TILTED/ DELAMINATING	1/A
OLD-1	HATCH	T(HOMAS)? (T. H. ON FOOTSTONE)	N/A	HEAD	SLATE	EXCAVATE STONE AND DELAMINATED FACE. CLEAN. RESET STONE. AD REP FACE. INFILL	FACE HAS DELAMINATED OFF AND IS JUST BELOW GRADE IN FRONT OF STONE/TILTED	1/C
OLD-1FS	HATCH	BATHSHUA	NOV. 20, 1824	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1	HATCH	EZEKIEL T. HANNAH BAILEY	FEB. 10, 1797 FEB. 13, 1839	HEAD	MARBLE	EXCAVATE. DISCARD CONCRETE? NEW BASE. SET BASE. MORTAR INTO BASE	TILTED	1/C

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-1	VINAL	HANNAH B.	FEB. 24, 1881	HEAD	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1	HART	HANNAH B.	SEPT. 5, 1874	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1	VINAL	HARRIET L.	JAN. 3, 1821	MON	MARBLE/ GRANITE	LIFT DIE AND MARBLE BASE OFF GRANITE BASE. CLEAN. RESET GRANITE BASE. REASSEMBLE (HEAVY)	TILTED/ MOVING OFF BASE	1/B
OLD-1	VINAL	SETH H.	AUG. 1, 1902	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE GRANITE BASE. CLEAN. RESET GRANITE BASE. REASSEMBLE AND PIN (HEAVY)	FALLEN/TILTED	1/B
OLD-1	SYLVESTER	MR. AMOS	OCT. 12, 1753	HEAD	SLATE	EXCAVATE. CLEAN. RESET. TACK. CAP	TILTED/ DELAMINATING CARVER: "NORTH RIVER CARVER"	1/B
OLD-1FS	SYLVESTER	MR. AMOS	OCT. 12, 1753	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED CARVER: "NORTH RIVER CARVER"	2/A
OLD-1FS	SYLVESTER	L. (FIRST NAME DELAMINATED OFF STONE)	SEPT. 18, 1794	FOOT	SLATE	CLEAN. RESET BEHIND HEADSTONE	FALLEN	1/A

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-1	SYLVESTER	MR. HINCHMAN	APR. 23, 1758	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1	SYLVESTER	LT. MICHAEL	APR. 3, 1802	HEAD	SLATE	EXCAVATE. CLEAN. RESET BOTTOM FRAGMENT. AD REP. INFILL	BROKEN	1/B
OLD-1FS	SYLVESTER	MISS JULETTA	DEC. 27, 1842	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	1/A
OLD-1	SYLVESTER	MR. ROBERT	AUG. 17, 1807	HEAD	SLATE	EXCAVATE. CLEAN. RE-ADHERE BACK FRAGMENT. RESET. CAP	TILTED/ DELAMINATING	1/B
OLD-1	SYLVESTER	MRS. LUCY	OCT. 7, 1840	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1FS	SYLVESTER	MRS. LUCY	OCT. 7, 1840	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-1	CHAMBERLIN	MISS LYDIA	SEPT. 13, 1821	HEAD	SLATE	EXCAVATE. CLEAN. NEW BASE? SET BASE? MORTAR INTO BASE	TILTED/ BROKEN/ SUNKEN	2/B
OLD-1	CHURCH	MR. TIMOTHY	MAR. 2, 1776	HEAD	SLATE	CLEAN. TACK. CAP	DELAMINATING	1/A
OLD-1FS	CHURCH	MR. TIMOTHY	MAR. 2, 1776	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-1FS	CURTIS	MR. REUBEN MRS. MARY	N/A APR. 1, 175?	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED/ MOST OF INSCRIPTION OBSCURED BY LICHEN	1/A
OLD-1	CURTIS	MARY R.	JAN. ?? (SUGAR DECAY)	HEAD	MARBLE/ SANDSTONE	EXCAVATE BOTTOM FRAGMENT AND BASE. CLEAN. RESET. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	FALLEN/BROKEN	1/B
OLD-1	CURTIS	MR. REUBEN	FEB. 20, 1818	HEAD	SLATE	CLEAN. TACK. CAP	DELAMINATING	1/A
OLD-1	CURTIS	BATHSHUA	OCT. 28, 1794	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-1	EELLS	JOSEPH ANDREW	SEPT. 29, 1834	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	2/A

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GRAVESTONE/MONUMENT
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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-2	ROBBINS	CAPT. THOMAS	APR. 14, 1790	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2	ROBBINS	BETHIAH	OCT. 16, 1801	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED CARVER: BILDAD WASHBURN	2/A
OLD-2	ROBBINS	MR. JOHN	SEPT. 8, 1838	HEAD	SLATE	EXCAVATE FOR MORE FRAGMENTS. EVALUATE. AD REP? BACKER? INFILL	BROKEN (MORE FRAGMENTS BELOW GROUND)	1/B
OLD-2	ROBBINS	SARAH	FEB. 26, 1857	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2	CURTIS	MR. RICHARD	APR. 28, 1766	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/B
OLD-2	CURTIS	MR. JOSEPH	DEC. 1, 1753	HEAD	SLATE	EXCAVATE. CLEAN. RESET. TACK. CAP	TILTED/ DELAMINATING CARVER: JACOB VINAL, JR.	1/B
OLD-2FS	CURTIS	MR. JOSEPH	DEC. 1, 1753	FOOT	SLATE	EXCAVATE. CLEAN. RESET. TACK. CAP	TILTED/ DELAMINATING CARVER: JACOB VINAL, JR.	1/A
OLD-2	CURTIS	MRS. MARY	APR. 9, 1750	HEAD	SLATE	EXCAVATE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN	1/B
OLD-2FS	CURTIS	MRS. MARY	APR. 9, 1750	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED/RAISED	1/A

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-2	CURTIS	EXSPRENCE	JUNE 25, 1739	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2FS	CURTIS	EXSPRENCE	JUNE 25, 1739	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2	CURTIS	STEPHEN	JULY 14, 1739	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2FS	CURTIS	STEPHEN	JULY 14, 1739	FOOT	SLATE	EXCAVATE. AD REP. RESET. INFILL	TILTED/ DELAMINATING	1/B
OLD-2	EELLS	HANNAH NORTH	SEPT. 2, 1737	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2FS	EELLS	HANNAH NORTH	SEPT. 2, 1737	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2FS	WITHEREL	MR. WILLIAM MRS. SARAH	MAR. 30, 1750 JULY 1757	FOOT	SLATE	EXCAVATE. CLEAN. NEW BASE. MORTAR INTO BASE	BROKEN	1/B
OLD-2	PLYER	MARY	MAY 10, 1847	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2FS	PLYER	MARY	MAY 10, 1847	FOOT	SLATE	EXCAVATE. CLEAN. RESET FACING EAST	TILTED/LOOSE IN GROUND	1/A
OLD-2	STETSON	BENJAMIN ETC.	APR. 8, 1819	HEAD	SLATE	EXCAVATE. CLEAN. RESET (HEAVY)	TILTED	1/B
OLD-2	GATES	BETSEY	OCT. 12? 1851	HEAD	MARBLE/ GRANITE	EXCAVATE. REMOVE PREVIOUS REPAIR. CLEAN. RESET BOTTOM FRAGMENT AND BASE. DRILL AND PIN TOP/BOTTOM FRAGMENTS. INFILL	BROKEN	1/C

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OLD SECTION 2

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-2FS	GATES	BETSEY	OCT. 12? 1851	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	1/A
OLD-2	GATES	JOSHUA	AUG. 28, 1870	HEAD	MARBLE	REMOVE PREVIOUS REPAIR. CLEAN. DRILL AND PIN MIDDLE AND TOP FRAGMENT TO BOTTOM FRAGMENT. INFILL	BROKEN	1/C
OLD-2FS	GATES	JOSHUA	AUG. 28, 1870	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	1/A
OLD-2	BRIGGS	LYDIA	MAY 4, 1840	HEAD	MARBLE	EXCAVATE AND LOOK FOR BASE. CLEAN. SET BASE OR NEW BASE. MORTAR INTO BASE	TILTED/ OUT OF BASE?	1/B
OLD-2FS	BRIGGS	LYDIA	MAY 4, 1840	FOOT	MARBLE	EXCAVATE. CLEAN. RESET LOWER	TILTED/RAISED	1/A
OLD-2	BRIGGS	EZRA	NOV. 2, 1815	HEAD	MARBLE/ CONCRETE	EXCAVATE. REMOVE PREVIOUS REPAIR. CLEAN. RESET LOWER	BROKEN/TILTED	1/C
OLD-2FS	BRIGGS	EZRA	NOV. 2, 1815	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2FS	CURTIS	MR. LEMUEL	JAN. 9, 1842	FOOT	MARBLE	CLEAN. DRILL AND PIN. INFILL	BROKEN/FALLEN	1/A
OLD-2	CURTIS	MR. WILLIAM G.	JAN. 25, 1795	HEAD	SLATE	EXCAVATE. CLEAN. RESET (HEAVY)	TILTED	1/B

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-2	CURTIS	LIEUT. WILLIAM	JUNE 21, 1793	HEAD	SLATE	LARGE FRAGMENT MAY BE BURIED IN FRONT OR BEHIND STONE. CLEAN. DRILL AND PIN FRAGMENT TO STONE. INFILL (HEAVY)	BROKEN	1/B
OLD-2FS	CURTIS	LIEUT. WILLIAM	JUNE 21, 1793	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2	CURTIS	RUFUS	JUNE 2, 1791	HEAD	SLATE	EXCAVATE. NEW BASE. CLEAN. SET BASE. MORTAR INTO BASE	BROKEN/FALLEN	1/B
OLD-2	CURTIS	WILLIAM	JAN. 11, 1759	HEAD	SLATE	CLEAN. TACK. CAP	DELAMINATING	1/B
OLD-2	CURTIS	MISS OLIVE	JULY 8, 1798	HEAD	SLATE	EXCAVATE AND DISCARD CONCRETE. CLEAN. RESET	TILTED	2/B
OLD-2	CURTIS	NANCY	OCT. 24, ? (FRAGMENT MISSING)	HEAD	MARBLE	EXCAVATE AND SEARCH FOR MORE FRAGMENTS. CLEAN. DRILL AND PIN FRAGMENTS TO BOTTOM FRAGMENT. INFILL. BACKER?	BROKEN/FALLEN MULTIPLE FRAGMENTS	1/D
OLD-2FS	HOUSE	MRS. ANN	JAN. 30, 1738	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2FS	HOUSE	DEBORAH	JULY 3, 1769	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A

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SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-2	HOUSE	MRS. BATHSHEBA	MAY 15, 1773	HEAD	SLATE	EXCAVATE TO SEARCH FOR FACE FRAGMENT. CLEAN. AD REP? TACK. CAP	DELAMINATING	1/B
OLD-2	HOUSE	MR. SETH	MAR. 19, 1777	HEAD	SLATE	CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE (MAY BE ADDITIONAL FRAGMENTS TO AD REP)	BROKEN/FALLEN	1/C
OLD-2FS	HOUSE	MR. SETH	MAR. 19, 1777	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2FS	CURTIS	MR. SAMUEL MRS. HANNAH	FEB. 23, 1794 OCT. 26, 1789	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED CARVER: PRATT FAMILY (PROB. SETH JONES PRATT)	2/A
OLD-2FS	STETSON	ABIGAIL	FEB. 3, 175? (DELAMINATED)	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2	CURTIS	MRS. ZILPHA	SEPT. 12, 1776	HEAD	SLATE	EXCAVATE. CLEAN. AD REP. RESET. INFILL. CAP (HEAVY)	TILTED/BROKEN	1/C
OLD-2	CURTIS	(SON)	SEPT. 12, 1776	HEAD	SLATE	EXCAVATE. CLEAN. AD REP. RESET. CAP	DELAMINATED	1/B
OLD-2FS	CURTIS	(SON)	SEPT. 12, 1776	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN	1/A

HANOVER CENTER CEMETERY
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FANNIN-LEHNER
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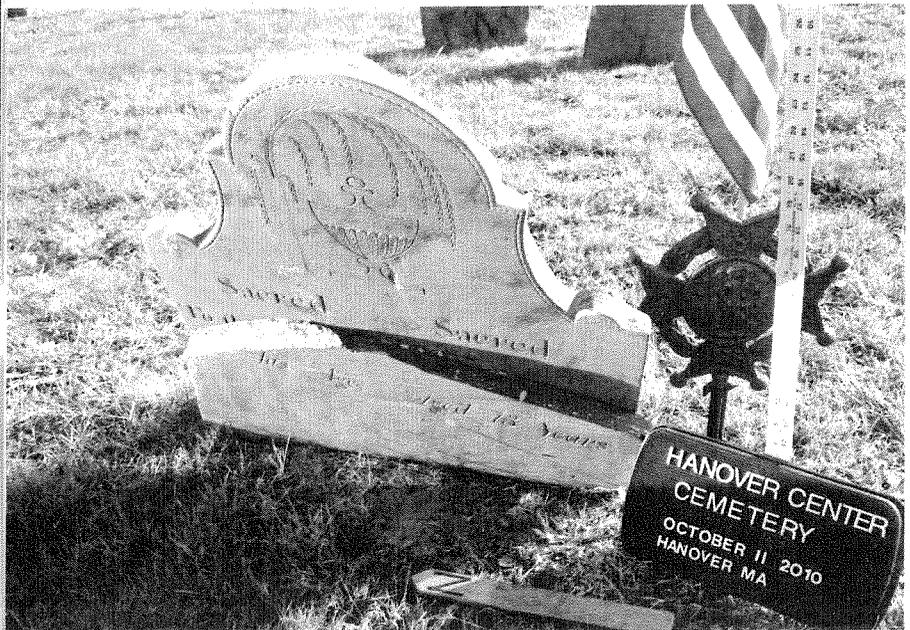
SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-2	MACOMBER	MISS POLLY	JAN. 6, 1796	HEAD	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET	TILTED CARVER: BILDAD WASHBURN	1/B
OLD-2FS	CURTIS	MISS EXPERIENCE	JAN. 14, 1842	FOOT	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
OLD-2FS	CURTIS	MR. PRINCE	OCT. 30, 1815	FOOT	SLATE	EXCAVATE. DISCARD CONCRETE. CLEAN. RESET FACING EAST	TILTED	2/A
OLD-2FS	BAILY	COL. JOHN MRS. RUTH	OCT. 25, 1810 JUNE 3, 1821	FOOT	MARBLE	CLEAN. RESET IN BACK OF HEADSTONE	FALLEN	1/A
OLD-2FS	BAILY	MR. JOHN	JUNE 2? 1769	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
OLD-2	STARLING	MR. GEORGE	DEC. 24, 1791	HEAD	SLATE	REMOVE PREVIOUS REPAIR. CLEAN. DRILL AND PIN.INFILL. CAP	BROKEN	1/C
OLD-2FS	CURTIS	MISS BETSEY	DEC. 9, 1840	FOOT	SLATE	EXCAVATE. REMOVE CONCRETE. CLEAN. AD REP. NEW BASE? SET BASE? MORTAR INTO BASE	DELAMINATING	1/C

HANOVER CENTER CEMETERY
HANOVER MA

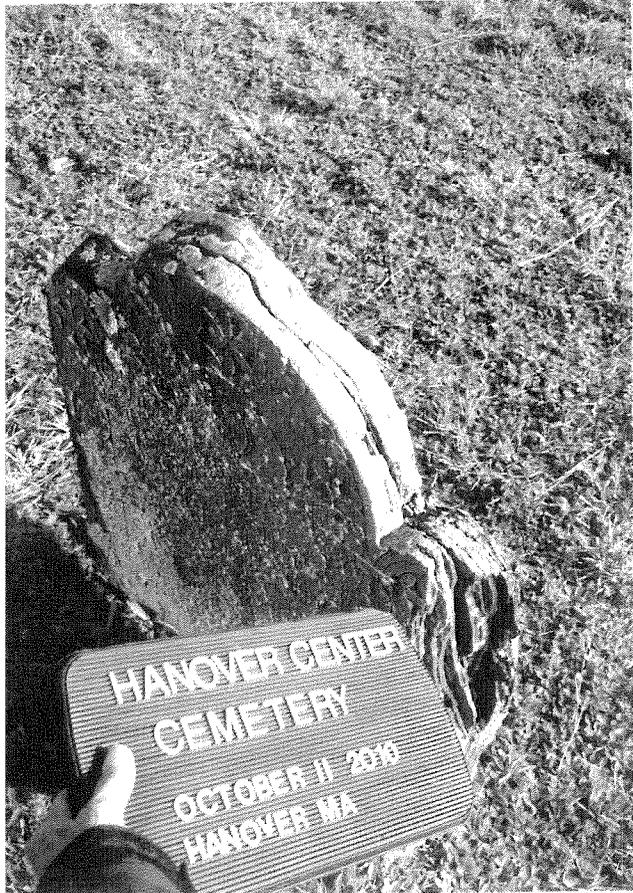
GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
OLD SECTION 3

FANNIN•LEHNER
10/27/10

SECTION	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
OLD-3FS	MACOMBER	MRS. BETTEY	JULY 22, 1807	FOOT	SLATE	EXCAVATE. CLEAN. RESET	TILTED CARVER: BILDAD WASHBURN	2/A
OLD-3	JOSSSELYN	MRS. RUTH	JAN. 15, 1742	HEAD	SLATE	EXCAVATE. CLEAN. RESET TACK. CAP	TILTED/ DELAMINATING	1/B
OLD-3FS	TURNER	COL. AMOS MRS. BETSEY	MAR. 14, 1822 NOV. 30, 1815	FOOT	SLATE	EXCAVATE. CLEAN. RESET FACING EAST	TILTED	2/A
OLD-3FS	TURNER	COLONEL EZEKIEL	1773	FOOT	SLATE	CLEAN. TACK.CAP	DELAMINATING	1B
OLD-3FS	BATES	JOSEPH NEAL EUNICE ROGERS (ETC.)	DEC. 27, 1792 DEC. 12, 1792	FOOT	SLATE	CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE. CAP.	BROKEN/ FALLEN/ DELAMINATING CARVER: PRATT FAMILY CARVERS	1/C
OLD-3	CUSHING	MR. JOSEPH	AUG. 11, 1837	HEAD	MARBLE	CLEAN. NEW BASE. SET BASE. MORTAR BOTTOM FRAGMENT INTO BASE. DRILL & PIN TOP TO BOTTOM FRAGMENT. INFILL.	FALLEN/BROKEN	1/D
OLD-3FS	CUSHING	MR. JOSEPH	AUG. 11, 1837	FOOT	MARBLE	EXCAVATE. CLEAN. RESET LOWER	TILTED/ RAISED	1/A



EXAMPLES OF SLATE GRAVESTONES REQUIRING CONSERVATION



Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161 - 6111 ex: broken

Mr. Joseph Studley

d. 6/16/1766

Old Sec. 1

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161 - 6117 ex: Tilted

Martin Whiting

d. 10/8/1793

Old Sec. 1

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161 - 6179 ex: broken

Torrey Mr. David

d. 7/5/1785

Mrs. Miriam

d. 11/8/1807

Old Sec. 1

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161 - 6118

Sarah L. White

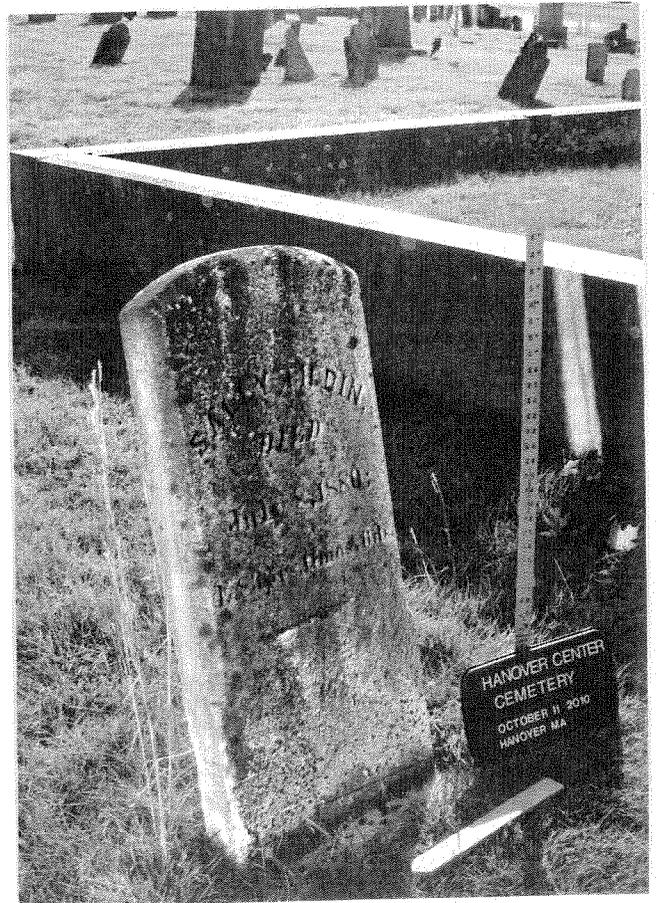
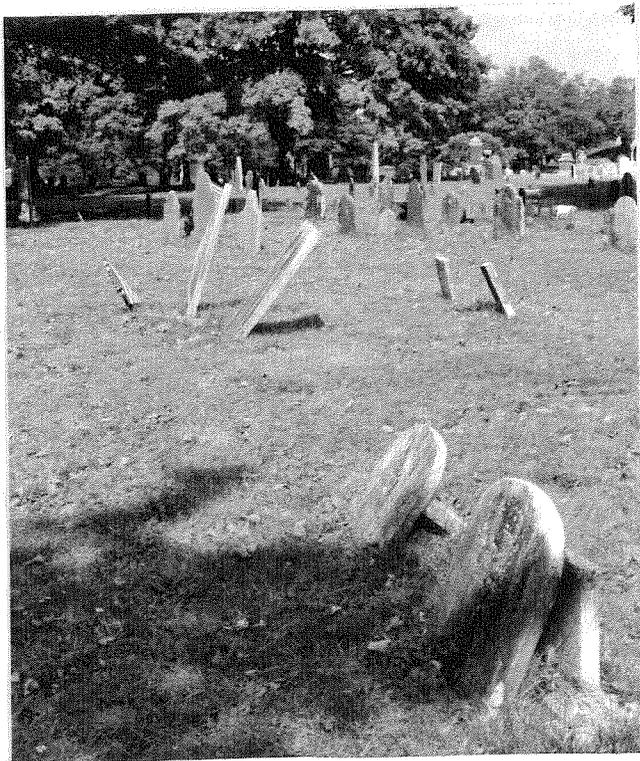
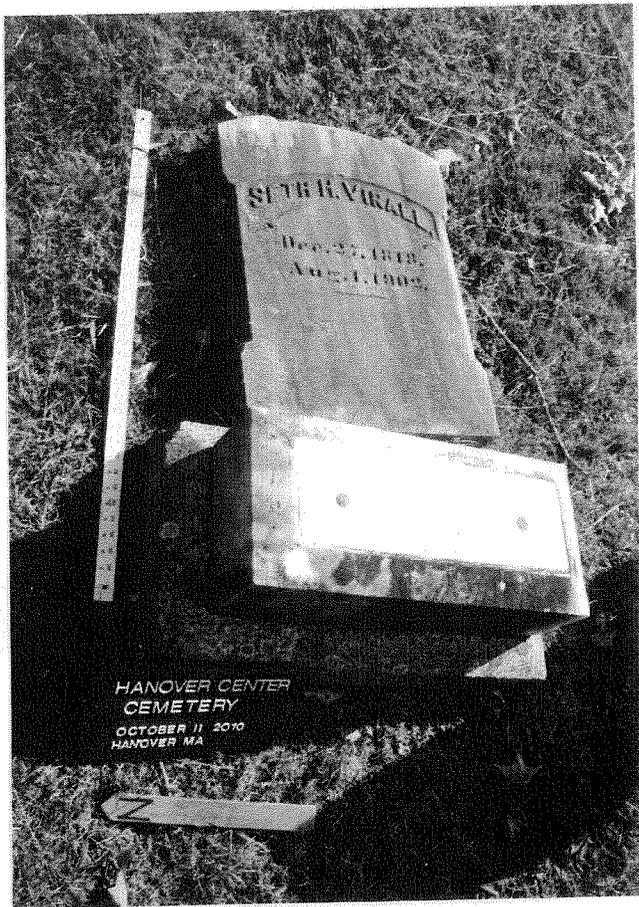
d. 8/26/1790

Old Sec. 1

ex: delaminating

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161 - 6132

General view



EXAMPLES OF MARBLE GRAVESTONES
AND MONUMENTS REQUIRING
CONSERVATION

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161-6156

Sally Tildin
d. 3/18/1980
old sec. 1
ex: Tilted

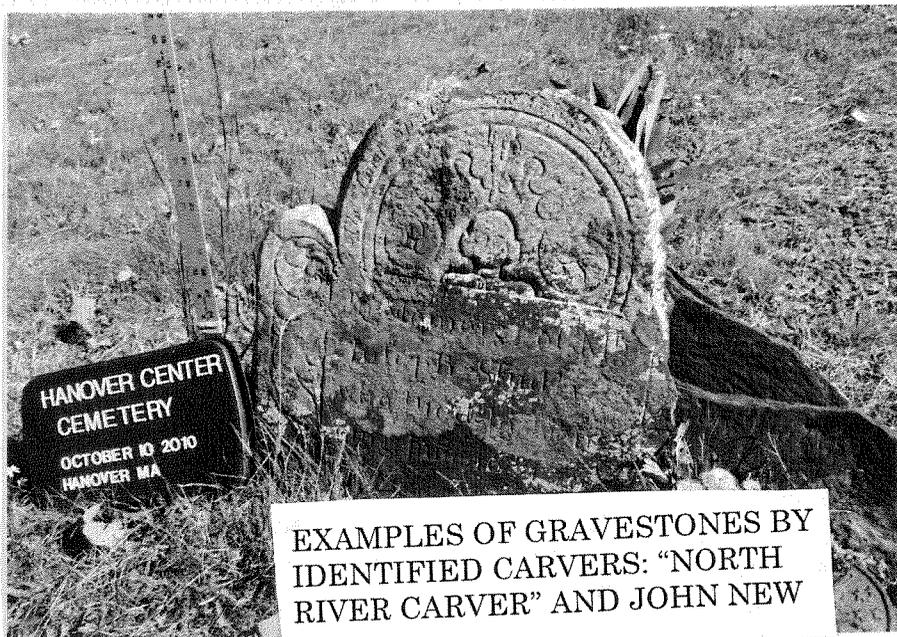


Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161-6124

Gates + Briggs
Families
Old sec. 2
ex: broken/
filled

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161-6121

Seth H. Virali
d. 8/11/1902
old sec. 1
ex: Fallen

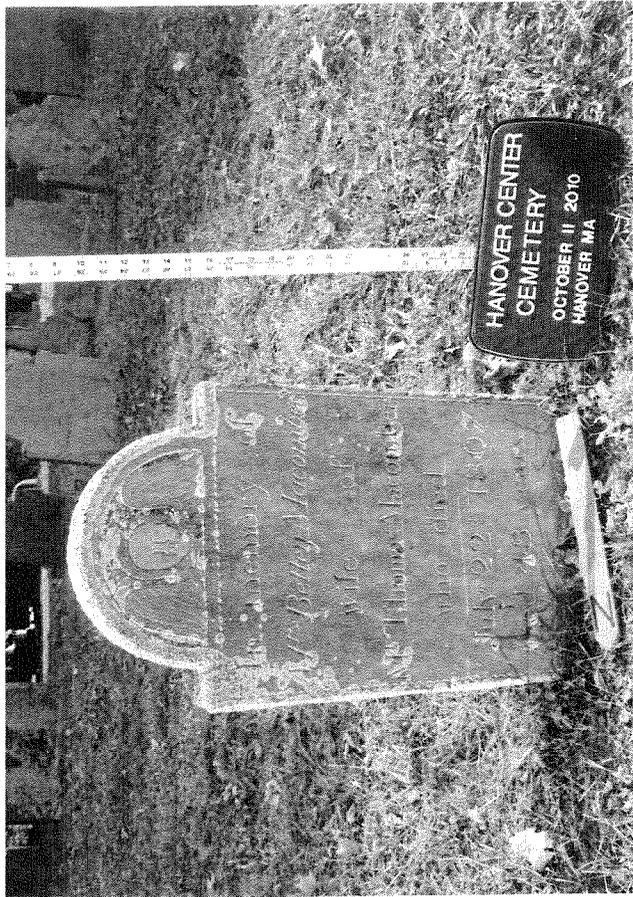


EXAMPLES OF GRAVESTONES BY IDENTIFIED CARVERS: "NORTH RIVER CARVER" AND JOHN NEW

Fannin•Lehner Mrs. Sarah Bailey,
271 Lexington Rd. d. Oct. 8, 1740
Concord MA 01742 old section 1
Hanover Center Cemetery carver:
Hanover MA - 10/10-11/2010 "North River"
Set: 2 Photo: 161 - 6110 Carver"

Fannin•Lehner Mr. Amos Sylvester
271 Lexington Rd. d. Oct. 12, 1753
Concord MA 01742 old section 1
Hanover Center Cemetery carver:
Hanover MA - 10/10-11/2010 "North
River"
Set: 2 Photo: 161 - 6122 Carver"

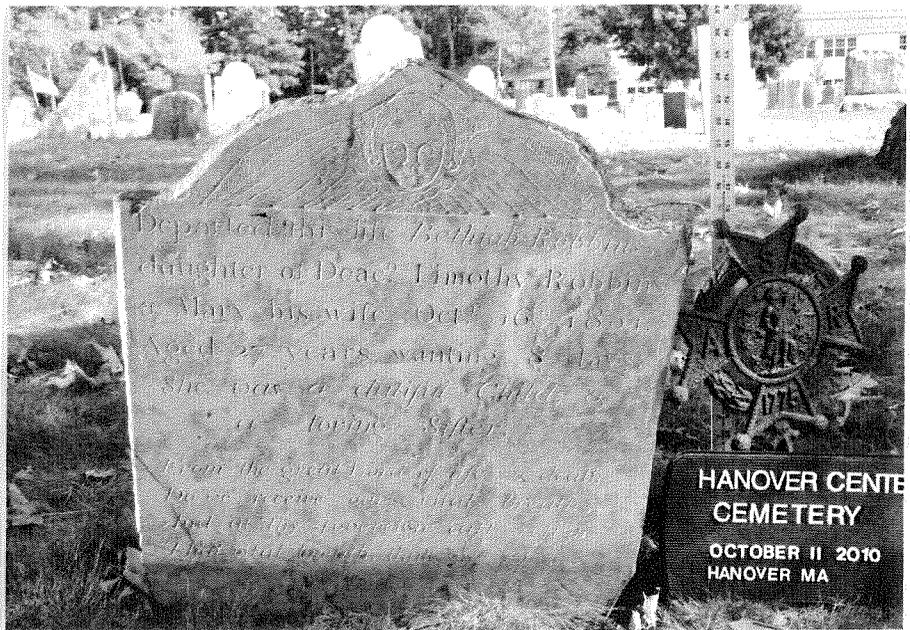
Fannin•Lehner Mr. Joseph Studley
271 Lexington Rd. d. June 16, 1766
Concord MA 01742 old section I
Hanover Center Cemetery carver: John
Hanover MA - 10/10-11/2010 Reed
Set: 2 Photo: 161 - 6117



HANOVER CENTER
CEMETERY
OCTOBER 11 2010
HANOVER MA



HANOVER CENT
CEMETERY
OCTOBER 11 2010
HANOVER MA



HANOVER CENT
CEMETERY
OCTOBER 11 2010
HANOVER MA



HANOVER CENTER
CEMETERY
OCTOBER 10 2010
HANOVER MA

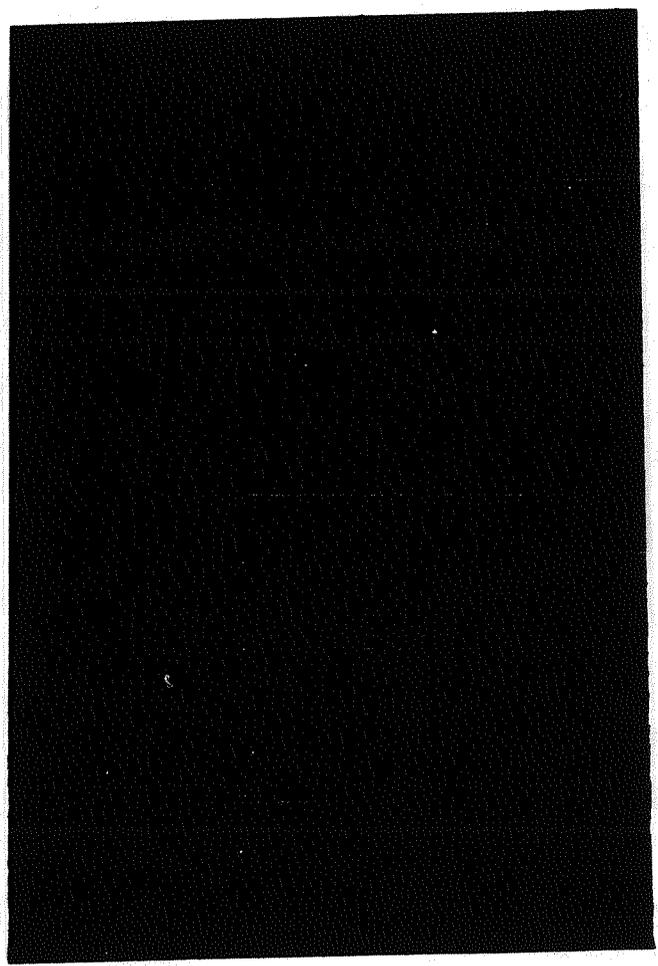
EXAMPLES OF GRAVESTONES BY
IDENTIFIED CARVERS: BILDAD
WASHBURN

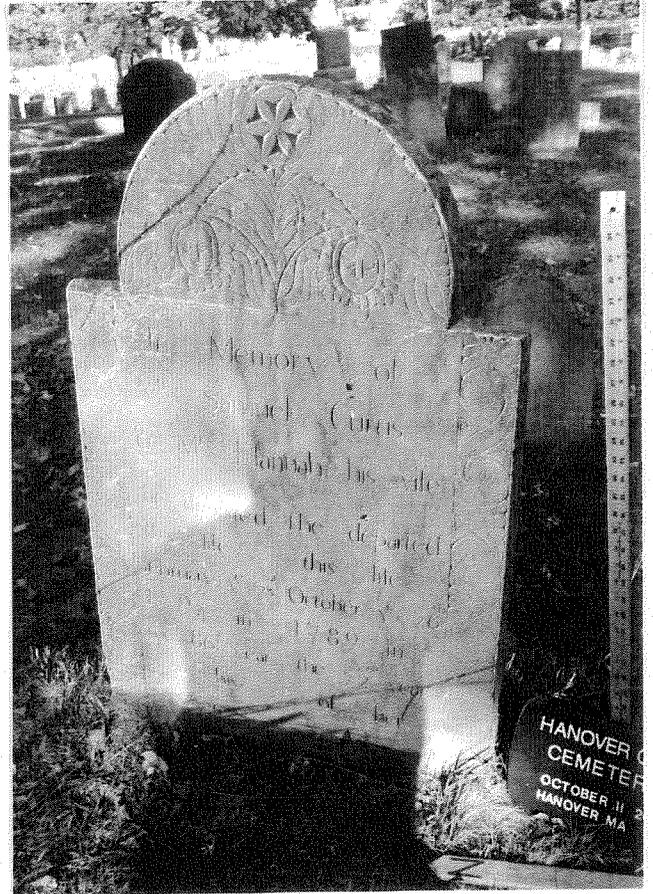
Fannin•Lehner Miss Polly Macomber
271 Lexington Rd. d. Jan. 6, 1796
Concord MA 01742 OLD SECTION 2
Hanover Center Cemetery CAVER: BILDAD
Hanover MA - 10/10-11/2010 WASHBURN
Set: 2 Photo: 161 - 6129

Fannin•Lehner Mrs. Bethy Macomber
271 Lexington Rd. d. July 22, 1807
Concord MA 01742 OLD SECT. 2
Hanover Center Cemetery CAVER: BILDAD
Hanover MA - 10/10-11/2010 WASHBURN
Set: 2 Photo: 161 - 6131

Fannin•Lehner Bethiah Robbins
271 Lexington Rd. d. Oct. 16, 1801
Concord MA 01742 OLD SECT. 2
Hanover Center Cemetery CAVER: BILDAD
Hanover MA - 10/10-11/2010 WASHBURN
Set: 2 Photo: 161 - 6126

Fannin•Lehner Mr. Eliza Barker
271 Lexington Rd. d. Oct. 18, 1781
Concord MA 01742 OLD SECTION 2
Hanover Center Cemetery CAVER: BILDAD
Hanover MA - 10/10-11/2010 WASHBURN
Set: 2 Photo: 161 - 6114



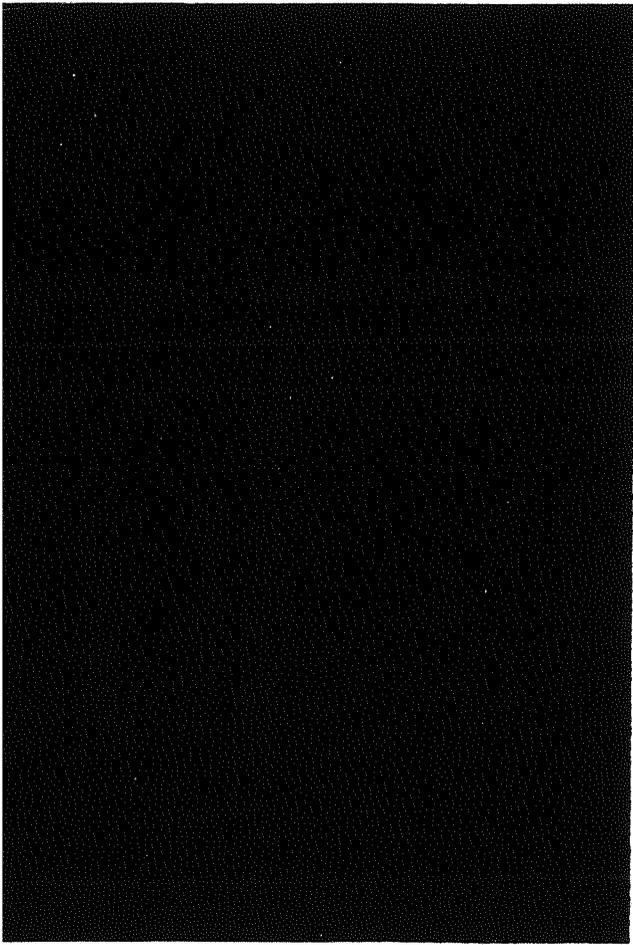


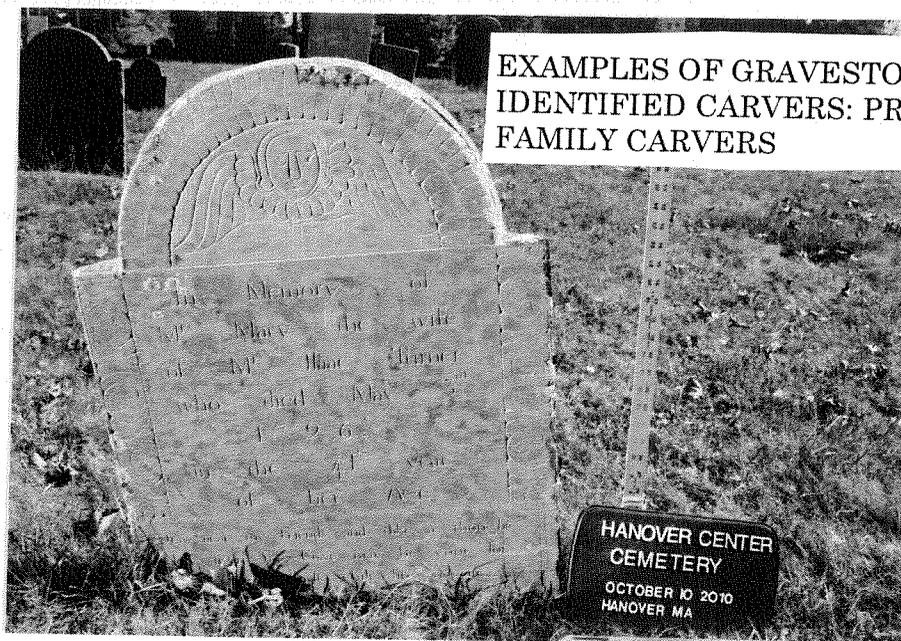
EXAMPLES OF GRAVESTONES BY IDENTIFIED CARVERS: PRATT FAMILY CARVERS

Fannin•Lehner Mr. Joseph Ramsdell
271 Lexington Rd. d. Aug. 24, 1788
Concord MA 01742 Old section 1
Hanover Center Cemetery Cause: Noah
Hanover MA - 10/10-11/2010 Pratt, Jr.
Set: 2 Photo: 161 - 6115

Fannin•Lehner Mrs. Margaret Barstow
271 Lexington Rd. d. April 12, 1788
Concord MA 01742 Old section 3
Hanover Center Cemetery Cause: Noah
Hanover MA - 10/10-11/2010 Pratt, Jr.
Set: 2 Photo: 161 - 6134

Fannin•Lehner Mr. Samuel Curtis
271 Lexington Rd. d. Feb. 23, 1794
Concord MA 01742 Mrs. Hannah Curtis
Hanover Center Cemetery d. Oct. 26, 1789
Hanover MA - 10/10-11/2010 Cause: Pratt
Family (Sep M)
Set: 2 Photo: 161 - 6128 Jones Pratt?





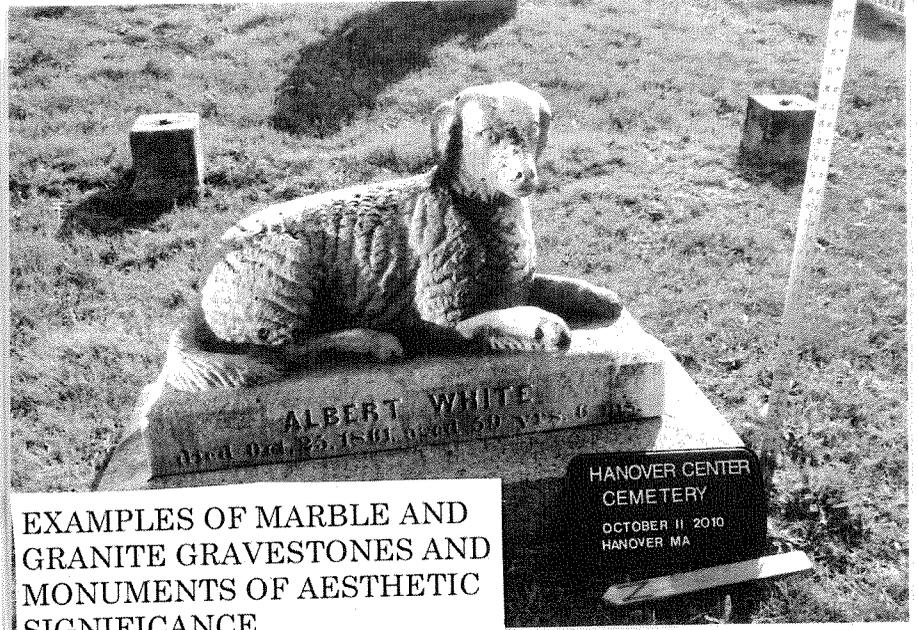
EXAMPLES OF GRAVESTONES BY IDENTIFIED CARVERS: PRATT FAMILY CARVERS



Fannin•Lehner Deacon Samuel Barston
271 Lexington Rd. d. Nov. 19, 1801
Concord MA 01742 old sect. 2
Hanover Center Cemetery caver: Seth
Hanover MA - 10/10-11/2010 Jones Pratt
Set: 2 Photo: 161 - 6133

Fannin•Lehner Mrs. Mary Turner
271 Lexington Rd. d. May 3, 1796
Concord MA 01742 old section 1
Hanover Center Cemetery caver: Pratt
Hanover MA - 10/10-11/2010 Family (Seth
Set: 2 Photo: 161 - 6113 Jones Pratt?)

Fannin•Lehner Mrs. Elizabeth Tilden
271 Lexington Rd. d. March 2, 1799
Concord MA 01742 old section 1
Hanover Center Cemetery caver: Seth
Hanover MA - 10/10-11/2010 Jones Pratt
Set: 2 Photo: 161 -



EXAMPLES OF MARBLE AND GRANITE GRAVESTONES AND MONUMENTS OF AESTHETIC SIGNIFICANCE

HANOVER CENTER CEMETERY
OCTOBER 11 2010
HANOVER MA



HANOVER CENTER CEMETERY
OCTOBER 7 2010
HANOVER MA



HANOVER CENTER CEMETERY
OCTOBER 7 2010
HANOVER MA

Fannin•Lehner *Albert White*
271 Lexington Rd. *d. 8/25/1861*
Concord MA 01742 *old sec. 1*
Hanover Center Cemetery *ex: aesthetic*
Hanover MA - 10/10-11/2010
Set: 2 Photo: 161-6120

Fannin•Lehner *Ellis - Joseph - d. 1836*
271 Lexington Rd. *son of Isaac - d. 1853*
Concord MA 01742 *+ 3 daughters*
Hanover Center Cemetery *d. 1812-1805*
Hanover MA - 10/7/2010 *ex: aesthetic*
Set: 1 Photo: 160-6088

Fannin•Lehner *Jones - Millie Maria*
271 Lexington Rd. *d. 6/12/1863*
Concord MA 01742 *Minnie Howard*
Hanover Center Cemetery *d. 10/31/1863*
Hanover MA - 10/7/2010 *ex: aesthetic*
Set: 1 Photo: 160-6087 *E-72*

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Hanover Center Cemetery
Hanover MA - 10/7/2010
Set: 1 Photo: 160-6087
Hatch Family
d. 1853-1882
E-78
ex: aesthetic

Fannin•Lehner *Curtis Family Stone*
271 Lexington Rd. *d. 1854-1871*
Concord MA 01742
Hanover Center Cemetery *E-75*
Hanover MA - 10/7/2010 *ex: aesthetic*
Set: 1 Photo: 160-6090

CONSERVATION COST ESTIMATE
HANOVER CENTER CEMETERY

<u>SECTION</u>	<u>STONES</u>	<u>COST</u>
A	15	\$8000
B	52	\$30,075
C	34	\$18,970
D	53	\$23,440
E	80	\$40,380
F	51	\$30,500
G	8	\$3650
TOTAL-A TO G	293	<u>\$155,015</u>
OLD SECT 1	83	\$34,150
OLD SECT 2	52	\$23,440
OLD SECT 3	7	<u>\$3650</u>
TOTAL-OLD SEC. 1-3	142	<u>\$61,240</u>
<u>HANOVER CENTER TOTAL</u>	<u>435</u>	<u>\$216,255</u>

ESTIMATED COST OF CONSERVATION ——— \$216,255*

*This estimate is based upon 2010 costs and no inflation factor has been included. (Please See Explanatory Notes for Cost Estimate.)

EXPLANATORY NOTES FOR COST ESTIMATE
HANOVER CENTER CEMETERY

1. Cost Estimate – The cost estimates cover the expense of conserving gravestones, monuments and footstones in the ten sections (A-G, Old Sections 1, 2, 3) depicted on the accompanying plan.
2. Phasing of Project - The volume and difficulty of work is such that a phased project is a suggested approach to completion of all the conservation required.
3. Professional Services - The estimate of conservation costs is based upon Fannin • Lehner's analysis of the professional time requirements for conservation efforts using the firm's experience gained over twenty-two years of historic burial ground conservation. The figures reflect the firm's estimated labor costs, expenses and per diem (utilizing 2010 pricing, not adjusted for inflation) for the conservation of the gravemarkers along with the requisite documentation. Fannin • Lehner Preservation Consultants provides for each conserved gravestone or monument "before and "after" photographs as part of a conservation form on which is recorded a summary of the markers problems and all conservation procedures employed. The completed conservation forms and photographs would comprise the report to the Hanover Historical Commission. Prior to any conservation taking place, a limited burial ground permit is obtained from the Massachusetts Historical Commission.
4. Expenses - An estimate for expenses is included in the cost of conservation figure. These expenses include per diem, conservator's supplies (adhesives, pins, material for new bases, etc.), along with photographic, travel, administrative and other costs associated with the project and the report.
5. Expenses not included in the expense estimate - The costs estimated do not include a supply of sand and peastone for resetting stones or water for cleaning markers, the removal from the site of excess soil excavated from around and under stones and monuments. The cost of lifting equipment to move, disassemble and reassemble large markers and monuments is also not included in the expense estimate. These are all items normally supplied by the client and coordinated by Fannin • Lehner Preservation Consultants. Monument builders, coordinated by Fannin • Lehner Preservation Consultants, may also be contracted for the heavy lifting portion of conservation, which would involve larger gravestones and monuments.

**GUIDE TO GRAVESTONE/MONUMENT CONDITION
ASSESSMENT LISTS**

UNION/ASSINIPPI CEMETERY

Union/Assinippi Cemetery has a listing of stones requiring conservation that was developed as follows: For purposes of location, the cemetery was divided into Section A and Section B as denoted on the accompanying map.

Section A - the area delimited by the west entry road, east fence and path following the base of the rise, which begins near the center of the cemetery. This area had no previous lot designations so the assessment was done in rows, starting on the east side of the section as Row 1, moving across to the west to Row 22.

Section B - A major portion of Section B had a historic plan showing how the lots were laid out and the original owner. This plan numbered the lots and this system was utilized for the assessment. Only 2 markers requiring conservation fell outside of this plan and they are noted with reference to the nearest numbered lot.

- **ROW #:** This is the number of the row (Rows 1-22) in Section A in which the stone is located.
- **LOT #:** This is the number of the lot in Section B in which the stone is located.
- **LAST NAME**
- **FIRST NAME**
- **D OF DEATH:** Complete Date of Death.
- **TYPE:** Head (headstone), Foot (footstone)(FS), Mon (monument), Obelisk, Marker (similar to a headstone but related to a central monument), Fragment.
- **MATERIAL:** Slate, marble, sandstone/brownstone, granite, limestone.

• **NOTES:** Problems experienced by the marker, Gravestone carver (if known), Miscellaneous Information.

• **TREATMENT:** Most common are: reset, adhesive repair, mortar into base, tack, cap and infill. All stones are completely cleaned before conservation is performed. Further treatment may include removing old repairs, re-pinning or new pins, or making a new base or foundation. Some stones must be investigated before treatment can be determined. Other stones need to be reset in the proper location, order or direction.

• **PR/COST:** ("PR") - Priority or urgency of repair with "1" signifying Urgent, "2" - Less urgent but necessary. ("COST") - The estimated cost of conservation of the gravestone/monument/footstone. The scale utilized is as follows:

<u>Category</u>	<u>Cost</u>
A -----	\$225 - 375
B -----	\$450 - 675
C -----	\$750 - 900
D -----	\$975 - 1200
E -----	\$1275 - 1500
F -----	\$1575 - 2250

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN•LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-1	JACOBS	BENJAMIN	DEC. 12, 1876	MON	MARBLE	REMOVE DIE. EXCAVATE BASES. CLEAN. RESET. REMOVE PREVIOUS REPAIR. REPIN	LOOSE ON BASE/ TILTED (1ST STONE ROW #1)	2/B
A-1	JACOBS	GUSTAVS	JAN. 12, 1862	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-2	JONES ELDRIDGE BROWN	FAMILIES	1879-1972	MON	GRANITE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #2)	
A-2FS	TURNER	LUTHER GRACE	OCT. 14, 1839 JUNE 8, 1842	FOOT	MARBLE	SEARCH FOR BOTTOM FRAGMENT. NEW BASE. CLEAN. SET BASE. MORTAR INTO BASE	BROKEN/FALLEN	1/B
A-3	BURRELL	JULIA ANN	MAR. 20, 1849	HEAD	MARBLE	REMOVE FROM GROUND. EXCAVATE & DISCARD CONCRETE BELOW GRADE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN GROUND (1ST STONE ROW #3)	1/B
A-3	SYLVESTER	JOTHAM	AUG. 2, 1852	HEAD	MARBLE	EXCAVATE BASE FRAGMENT, NOW IN CONCRETE. EVALUATE AND CLEAN. RESET? DRILL AND PIN TOP TWO FRAGMENTS TO BOTTOM FRAGMENT. INFILL	FALLEN/BROKEN	1/C

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-4	GREEN	ANDREW "FATHER"	MAR. 24, 1893	MON	MARBLE	SHARES BASE WITH LOIS N. GREEN. ASSUME BASES CLEANED AND RESET UNDER LOIS N. GREEN. CLEAN. AD REP FRAGMENT TO BOTTOM. REPIN TO BASE. INFILL	TILTED/ FALLEN/BROKEN	1/B
A-4	N/A	CHRISTOPHER	N/A	SMALL MON	MARBLE/ SANDSTONE	DISASSEMBLE. EXCAVATE BASE. CLEAN. RESET BASE. REMOVE OLD PINS. ADHESIVE REPAIR OF FRAGMENTS. DRILL & PIN DIE TO BASE. INFILL	BROKEN/TILTED LOOSE ON BASE	1/B
A-4	CROSS	LORING	AUG. 2, 1801	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	1/A
A-4	GROCE	REBECCA JANE	1922	MON	GRANITE	REMOVE DIE EXCAVATE BASE. CLEAN. EXCAVATE AND DISCARD OLD FOUNDATION. RESET BASE. REASSEMBLE	TILTED/SUNKEN	1/B
A-5	YOUNG	BENJAMIN N. JR. "BENNIE"	1936	MON	MARBLE	DISASSEMBLE. EXCAVATE BASE. CLEAN. EXCAVATE & DISCARD OLD FOUNDATION. NEW FOUNDATION. RESET BASE. REASSEMBLE	TILTED/ LOOSE ON BASE (1ST STONE ROW #5)	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN•LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-5	SHURTLEFF	ERNEST "BABY ERNEST"	SEPT. 14, 1874	HEAD	MARBLE	REMOVE DIE. EXCAVATE BASE. CLEAN. RESET BASE HIGHER. MORTAR INTO BASE	LOOSE IN BASE/ SUNKEN	1/A
A-5	JACOB	ANSILE	DEC. 17, 1795	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-6	BAILEY	DOCTOR DAVID	JAN. 13, 1837	HEAD	MARBLE	REMOVE DIE. EXCAVATE BASE. CLEAN. RESET BASE HIGHER. MORTAR INTO BASE	TILTED/ LOOSE IN BASE (1ST STONE ROW #6)	1/B
A-6	BAILEY	MRS. JOANNA	APR. 4, 1847	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-6	STOWELL	LUCY ELLA	OCT. 3, 1857	HEAD	MARBLE	REMOVE DIE. EXCAVATE BASE. CLEAN. RESET BASE HIGHER. MORTAR INTO BASE	TILTED/ OUT OF BASE	1/A
A-6	GARDNER	MRS. REBECCA	DEC. 6, 1840	HEAD	MARBLE	EXCAVATE. CLEAN. RESET HIGHER	TILTED/SUNKEN	1/A
A-6	BAILEY	DAVID	SEPT. 18, 1882	MON	MARBLE	REMOVE DIE AND FIRST MARBLE BASE. EXCAVATE LOWER BASE. EXCAVATE AND EVALUATE FOUNDATION. CLEAN. RESET LOWER MARBLE BASE. REASSEMBLE	TILTED/ SLIPPED OFF FOUNDATION	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-6	BAILEY	DEBORAH "MOTHER"	APR. 6, 1867	MON	MARBLE	REMOVE DIE. EXCAVATE BASES. REMOVE PREVIOUS REPAIR. CLEAN. RESET BASES. REPIN. (1ST BASE IS CRACKED MAY REQUIRE A REPAIR)	TILTED/SUNKEN LOOSE ON BASE	1/B
A-6	BAILEY	WILLIAM HARRISON	SEPT. 4, 1836	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-6	BAILEY	JOANNA	JULY 14, 1813	HEAD	MARBLE	CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	FALLEN/BROKEN	1/B
A-6	GRAY	JAMES BETHIAH CURTIS	MAY 4, 1812 OCT. 27, 1822	HEAD	MARBLE	EXCAVATE. CLEAN. RESET (MAY BE IMPACTED BY TREE ROOTS)	TILTED	1/B
A-7	GARDNER	HIRAM LUCINDA BAILEY	1877 1896	MON	GRANITE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #7)	
A-7	BOWKER	FRANCES A.	MAR. 3, 1902	MON	MARBLE/ GRANITE	REMOVE DIE AND MARBLE BASE. EXCAVATE GRANITE BASE. CLEAN. EVALUATE FOUNDATION. RESET GRANITE BASE. REPIN MARBLE DIE AND BASE TO GRANITE BASE	TILTED/ LOOSE ON BASE	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN•LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-7	CURTIS	MR. PELEG	JUNE 22, 1835	HEAD	SLATE	REMOVE PREVIOUS REPAIR. CLEAN. ADHESIVE REPAIR. INFILL	FALLEN/BROKEN	1/B
A-7	CURTIS	MR. PELEG	JAN. 15, 1797	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/B
A-7	WHITING	HOSEA BETHIAH	APR. 12, 1883 JULY 13, 1831	HEAD	MARBLE	REMOVE DIE. EXCAVATE BASE. CLEAN. RESET BASE HIGHER. MORTAR INTO BASE	TILTED/SUNKEN LOOSE IN BASE	1/B
A-7	DOTEN	LYDIA BOWKER	JUNE 15, 1837	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A
A-8	TOTMAN	CHARLES	JULY 21, 1825	MARKER	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. REPIN	FALLEN/ LOOSE FROM BASE (1ST STONE ROW #8)	1/A
A-8	TOTMAN	SOPHIA COLLAMORE	JAN. 20, 1868	MARKER	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. REPIN	FALLEN/ LOOSE FROM BASE	1/A
A-8	TOTMAN	ENOCH C.	APR. 6, 1824	MARKER	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. REPIN	FALLEN/ LOOSE FROM BASE	1/A
A-8	TOTMAN	CHARLES	NOV. 20, 1888	MARKER	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. REPIN	FALLEN/ LOOSE FROM BASE	1/A

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-8	TOTMAN	THAIS HOLBROOK	SEPT. 2, 1868	MARKER	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. REPIN	FALLEN/ LOOSE FROM BASE	1/A
A-8	TOTMAN	ANTHONY E.	AUG. 21, 1856	MARKER	MARBLE	EXCAVATE BASE. CLEAN. RESET BASE. REPIN	FALLEN/ LOOSE FROM BASE	1/A
A-8	TOTMAN	FAMILY	1824-1888	OBELISK	MARBLE/ SANDSTONE	TRY TO CENTER OBELISK ON BASE. EXCAVATE AND BRING MONUMENT TO LEVEL. CLEAN	TILTED/ OBELISK SLIDING OFF BASE	1/C
A-9	COLLAMORE	CAPT. ENOCH	APR. 22, 1824	MARKER	MARBLE/ SANDSTONE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #9)	
A-9	WHITING	HANNAH	SEPT. 25, 1824	MON	MARBLE/ SANDSTONE	REMOVE DIE. EXCAVATE BASES. CLEAN. RESET BASES. REMOVE PREVIOUS REPAIR. DRILL AND PIN DIE TO MARBLE BASE. INFILL	BROKEN/TILTED	1/C
A-9	COLLAMORE	ENOCH, JR.	MAR. 17, 1839	MARKER	MARBLE/ SANDSTONE	REMOVE DIE. EXCAVATE BASE. CLEAN. RESET BASE HIGHER. MORTAR INTO BASE	LOOSE IN BASE/ SUNKEN	1/A
A-9	WHITING	BRITTON	1838	MARKER	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	1/A

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-9	LAPHAM	MICHAEL SARAH	FEB. 24, 1809 NOV. 13, 1853	HEAD	MARBLE/ SANDSTONE	EXCAVATE BASE AND BASE FRAGMENT. CLEAN ALL FRAGMENTS. REMOVE PREVIOUS REPAIR. RESET BASE AND FRAGMENT. DRILL AND PIN MIDDLE FRAGMENT TO BASE FRAGMENT AND TOP FRAGMENT TO MIDDLE FRAGMENT. INFILL.	FALLEN/BROKEN	1/C
A-10	PROUTY	NATHANIEL L.	OCT. 25, 1826	MARKER	MARBLE	EXCAVATE. CLEAN. RESET	TILTED/SUNKEN (1ST STONE IN ROW # 10)	1/A
A-10	PROUTY	WILLIAM	MAY 23, 1842	HEAD	MARBLE	REMOVE PREVIOUS REPAIR. CLEAN. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	BROKEN	1/B
A-10	DRAKE	ELIZABETH BEZER W.	MAR. 8, 1865 JULY 25, 1861	HEAD	MARBLE	EXCAVATE AND REMOVE DIE. EXCAVATE BASE. CLEAN. RESET BASE HIGHER. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/B
A-10	DRAKE	BEZER T.	APR. 13, 1840	HEAD	MARBLE	CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN/TILTED	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN•LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-10	PROUTY	GALEN	OCT. 25, 1804	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/B
A-10	PROUTY	MISS ELIZABETH	MAY 21, 1800	HEAD	SLATE	SET TOP FRAGMENT ASIDE. EXCAVATE BOTTOM FRAGMENT. CLEAN. RESET BOTTOM	BROKEN/TILTED	1/B
						FRAGMENT. AD REP TOP TO BOTTOM FRAGMENT. MAY NEED BACKER		
A-11	HAYDEN	WILLIAM PARKER HELEN M. BROOKS	1920 1954	MON	GRANITE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #11)	
A-12	MANN	MRS. LUCY B.	JAN. 3, 1837	HEAD	SLATE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #12)	
A-12	WHITING	LUCY	NOV. 4, 1859	HEAD	MARBLE	EXCAVATE BOTTOM FRAGMENT. REMOVE PREVIOUS REPAIR. CLEAN. RESET BOTTOM FRAGMENT. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	BROKEN/FALLEN	1/B
A-12	BARRELL	MR. JAMES	APR. 16, 1827	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-12	BARRELL	MRS. DEBORAH	MAR. 10, 1813	HEAD	SLATE	EXCAVATE. CLEAN. RESET	TILTED	2/A

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-13	N/A (DELAMINATED)	LYDIA	MAY 14, ?	HEAD	SLATE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #13)	
A-13	BARRELL	N/A	N/A	HEAD	MARBLE	EXCAVATE/EVALUATE. CLEAN? NEW BASE? BACKER? DRILL AND PIN?	FALLEN/BROKEN DETERIORATED	1/C
A-13	BARRELL	NOAH	MAY 27, 1839	HEAD	MARBLE	EXCAVATE & EVALUATE. CLEAN. DRILL AND PIN FRAGMENTS TO DIE? DISCARD CONCRETE. NEW BASE. MORTAR INTO BASE	FALLEN/BROKEN DETERIORATED	1/D
A-13	BARRELL	JAMES	NOV. 1790	HEAD	MARBLE	EXCAVATE. CLEAN. RESET. STABILIZE TOP FRAGMENT. INFILL	TILTED/ LOOSE ON PINS	1/B
A-13	BARRELL	JAMES	JULY 1, 1850	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-14	COLLAMORE	FAMILY		MON	MARBLE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #14)	
A-14	STODDARD	CYRUS LUCY S.	APR. 3, 1853 MAY 20, 1863	MON	MARBLE/ GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/B
A-14	RANDALL	ELIZABETH JONES	JUNE 26, 1871	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	2/B
A-15	PROUTY	DAVID	JUNE 5, 1831	HEAD	SLATE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #15)	

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN-LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-15	PROUTY	INFANT DAUGHTER	APR. 4, 1799	HEAD	SLATE	EXCAVATE. CLEAN. RESET. CAP	TILTED/ DELAMINATING	1/A
A-15FS	FARROW	MRS. JEMIMA	MAY 23, 1794	FOOT	SLATE	EXCAVATE. CLEAN. RESET. TACK. CAP	TILTED/ DELAMINATING/ IMPACTED BY TREE	1/B
A-16	DAMON	ISAAC N.	JAN. 21, 1843	HEAD	MARBLE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #16)	
A-16	DAMON	JUDITH	JUNE 24, 1867	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE/ MAY BE IMPACTED BY TREE	1/B
A-17	STODDARD	MR. OBADIAH	JAN. 30, 1832	HEAD	SLATE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #17)	
A-17	STODDARD	HEMAN HANNAH RUTH	MAR. 29, 1864 MAY 29, 1836 DEC. 18, 1850	HEAD	MARBLE	EXCAVATE. CLEAN. REATTACH FRAGMENTS IF FEASIBLE. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN/FALLEN	1/C
A-18	GROSS	MR. THOMAS	OCT. 8, 1811	HEAD	SLATE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #18)	
A-19	JACOBS	ELISHA DELIA T. (ETC.)	MAR. 18, 1879 DEC. 14, 1899	MON	GRANITE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #19)	

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION A

FANNIN•LEHNER
10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-20	JACOBS	RICHMOND THOMAS	SEPT. 6, 1838 SEPT. 11, 1855	MON	MARBLE/ GRANITE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #20)	
A-20	WILDER	HARRIET M.	MAR. 27, 18??	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	TILTED	2/A
A-20	CURTIS	LYDIA M.	OCT. 8, 1838	HEAD	MARBLE	EXCAVATE. CLEAN. RESET BASE. MORTAR INTO BASE	TILTED/ LOOSE IN BASE	1/B
A-20	CURTIS	HANNAH P.	JULY 1886	MON	MARBLE/ GRANITE	EXCAVATE AROUND MONUMENT. REPOSITION MONUMENT ON BELOW GRADE BASE. CLEAN	MOVING OFF THE BELOW-GRADE BASE	1/B
A-21	CURTIS	JOSEPH	NOV. 22, 1844	HEAD	MARBLE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #21)	
A-21	GARDNER	LUCY ADELAIDE	SEPT. 3, 1870	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE SANDSTONE BASE. REMOVE PREVIOUS REPAIR FROM GRANITE BASE. RESET GRANITE BASE. EVALUATE MARBLE TO SEE IF USEABLE. DRILL & PIN MARBLE TO GRANITE BASE? DIE: SEARCH FOR MORE FRAGMENTS. REATTACH FRAGMENTS? PIN DIE TO MARBLE BASE?	BROKEN/FALLEN TILTED	1/E

UNION ASSINIPPI CEMETERY
 HANOVER MA

GRAVESTONE/MONUMENT
 CONDITION ASSESSMENT
 SECTION A

FANNIN-LEHNER
 10/26/10

ROW #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
A-22	KILLAM	REV. ROBERT PHEBE S.	DEC. 25, 1861? MAY 14? 1859	OBELISK	MARBLE/ GRANITE	NO TREATMENT AT THIS TIME	(1ST STONE ROW #22)	
A-22	SANBORN	ALBERT E. S. LILIAN	DEC. 7, 1871 SEPT. 28, 1864	MON	MARBLE/ GRANITE	REMOVE ALL ENCROACHING VEGETATION (BY OTHERS)	IMPACTED BY VEGETATION	1/N/A

UNION ASSINIPPI CEMETERY
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GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN-LEHNER
10/26/10

LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-4	CURTIS	BABY PAUL	JULY 21, 1867?	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	FALLEN/ OFF MARBLE POST/ PIN MISSING	1/A
B-6	MORSE	LYDIA S.	APR. 22, 1880	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A
B-6	MORSE	REV. HORACE W.	MAR. 1, 1903	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A
B-6	MORSE	JOSEPH M. GILMAN	1918	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A
B-6	MORSE	HORACE E.	1904	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A
B-6	MORSE	FRANCINA J. GILMAN	1916	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A
B-8	JACOBS	LORING	SEPT. 15, 1879	MON	MARBLE	SEARCH FOR/INQUIRE ABOUT (URN)	TOP ELEMENT MISSING	1/A
B-8	JACOBS	LORING "HUSBAND"	SEPT. 15, 1879	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN-LEHNER
10/26/10

LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-8	JACOBS	MARY EMILY "WIFE"	FEB. 1, 1903	MARKER	MARBLE	EXCAVATE POST. CLEAN. RESET POST. REPIN MARKER TO POST	LOOSE ON POST	1/A
B-13	JACOBS	MARSHALL	N/A	MARKER	MARBLE	CLEAN. RESET	FALLEN	1/A
B-17	LAPHAM	"MOTHER" (NAME ON BACK)	N/A	PART OF DOUBLE MON	MARBLE/ GRANITE	DISASSEMBLE. "MOTHER" WITH LIFT. SET BASE AND "FATHER" ASIDE. NEW FOUNDATION. CLEAN. SET BASE AND "FATHER" ON NEW FOUNDATION. REPIN "MOTHER'S" MARBLE BASE TO GRANITE BASE. REMOVE PIN FRAGMENTS. PIN DIE TO MARBLE BASE	FALLEN (SHARES BASE WITH WILLIAM LAPHAM)	1/F
B-19	DAMON	ABIGAIL	JUNE 26, 1863	HEAD	MARBLE	EXCAVATE BASE FRAGMENT AND BASE. CLEAN. RESET BASE AND BASE FRAGMENT. DRILL AND PIN. INFILL	FALLEN/BROKEN	1/B
B-19	DAMON	JACOB	JAN. 1857	HEAD	MARBLE	EXCAVATE BASE FRAGMENT AND BASE. CLEAN. RESET BASE AND BASE FRAGMENT. DRILL AND PIN. INFILL	FALLEN/BROKEN	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN-LEHNER
10/26/10

LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-19	HARRIS	CHARLES W.	AUG. 8, 1852	HEAD	MARBLE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
B-20	CHAPMAN	DANIEL	MAR. 18, 1881	HEAD	MARBLE/ GRANITE	REMOVE PREVIOUS REPAIR. DRILL AND PIN. INFILL	BROKEN/FALLEN	1/A
B-21	DAMAN	DANIEL	MAR. 3, 1896	MARKER	GRANITE	EXCAVATE. CLEAN. RESET.	TILTED	2/A
B-25	SEARS	SARAH S.	DEC. 14, 1869	MON	MARBLE	EXCAVATE. BASE. REMOVE PREVIOUS REPAIR. SEARCH FOR MORE FRAGMENTS. CLEAN. RESET BASE. DRILL AND PIN BOTTOM CORNER TO DIE. PIN DIE TO BASE. INFILL.	FALLEN/BROKEN	1/C
B-25	SEARS	CAROLINE	NOV. 3, 1855	HEAD	MARBLE	EXCAVATE. INCLUDING BOTTOM FRAGMENTS. SET ASIDE CONCRETE COLLAR. CLEAN. ATTACH BOTTOM FRAGMENTS TO STONE IF POSSIBLE. NEW BASE. SET BASE. MORTAR INTO BASE. DRILL AND PIN UPPER PROPER LEFT CORNER OF STONE. INFILL.	FALLEN/BROKEN CARVER: BRYANT&GREENE	1/D

LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-26	JACOBS	NELLIE L.	NOV. 1, 1868	HEAD	MARBLE	SET ASIDE STONE. CLEAN STONE AND BASE. DRILL AND PIN CRACK IN BASE. MORTAR STONE INTO SLOT	LOOSE IN BASE/ BASE CRACKED	1/B
B-26	JACOBS	WILLIAM	JUNE 12, 1867	MON	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE GRANITE BASE. CLEAN. RESET GRANITE BASE. REPIN INTACT MARBLE BASE TO GRANITE BASE. PIN LOWER CORNER FRAGMENTS TO DIE. PIN DIE TO BASE. INFILL. PLACE OTHER MARBLE BASE FRAGMENTS ON GRANITE BASE.	FALLEN/BROKEN	1/D
B-28	CURTIS	SETH	MAR. 23, 1860	HEAD	MARBLE/ GRANITE	EXCAVATE STONE AND BASE. REMOVE BOTTOM FRAGMENT FROM SLOT. CLEAN. RESET BASE. REDUCE SLIGHTLY BOTTOM OF STONE TO FIT IN SLOT. MORTAR INTO BASE (HEAVY)	FALLEN/BROKEN CARVER: D. H. BOWKER, SO. SCITUATE	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN•LEHNER
10/26/10

LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-30	JACOBS	CAROLINE F.	MAR. 26, 1852	HEAD	MARBLE/ SANDSTONE	REMOVE STONE FROM SLOT. EXCAVATE BASE. CLEAN. RESET BASE. MORTAR INTO BASE (HEAVY)	TILTED/ LOOSE IN BASE	1/B
B-33	MAINE	HENRY W. PHOEBE A.	1925 1934	MON	GRANITE	DISASSEMBLE. AND SET ASIDE. CLEAN. REMOVE FAILED FOUNDATION. RESET BASE. RESET DIE ON BASE	TILTED/RAISED	1/B
B-40	BURRELL	ISAAC MABEL CUSHING	MAY 23, 1878 AUG. 14, 1883	OBELISK	MARBLE/ GRANITE	DISASSEMBLE. EXCAVATE GRANITE BASE. CLEAN. NEW FOUNDATION. RESET GRANITE BASE. REASSEMBLE. (NEEDS LIFT)	FALLEN	1/D
B-40	BURRELL	JOSEPH JOSEPH HENRY	NOV. 12, 1847 AUG. 15, 1842	HEAD	MARBLE	SEARCH FOR BOTTOM FRAGMENT. CLEAN. NEW BASE? SET BASE? MORTAR INTO BASE?	FALLEN/BROKEN BOTTOM FRAGMENT MISSING	1/D
B-40	BURRELL	ISAAC	JAN. 24, 1863	HEAD	MARBLE	CLEAN. DRILL AND PIN. INFILL	FALLEN/BROKEN	1/B

UNION ASSINIPPI CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT
SECTION B

FANNIN-LEHNER
10/26/10

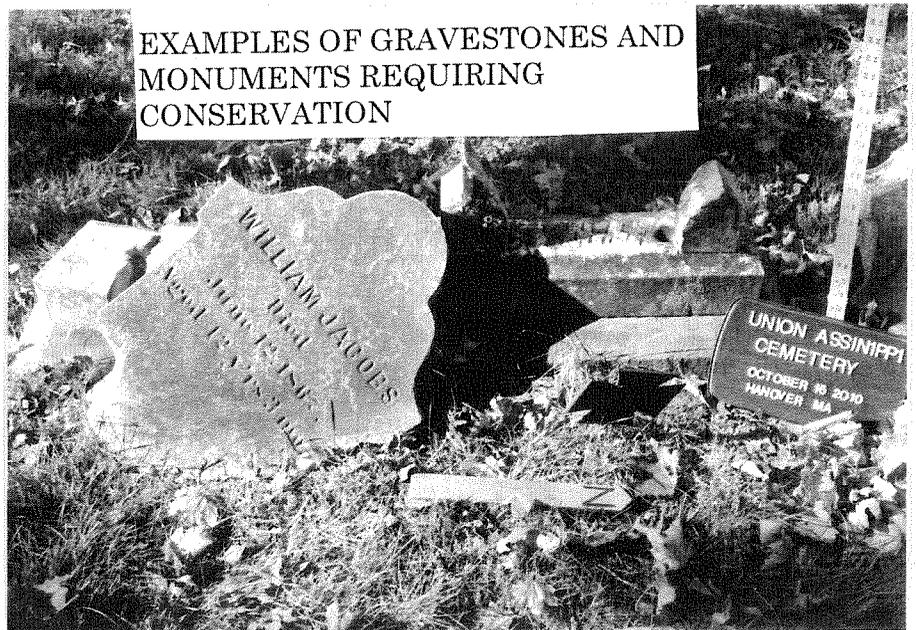
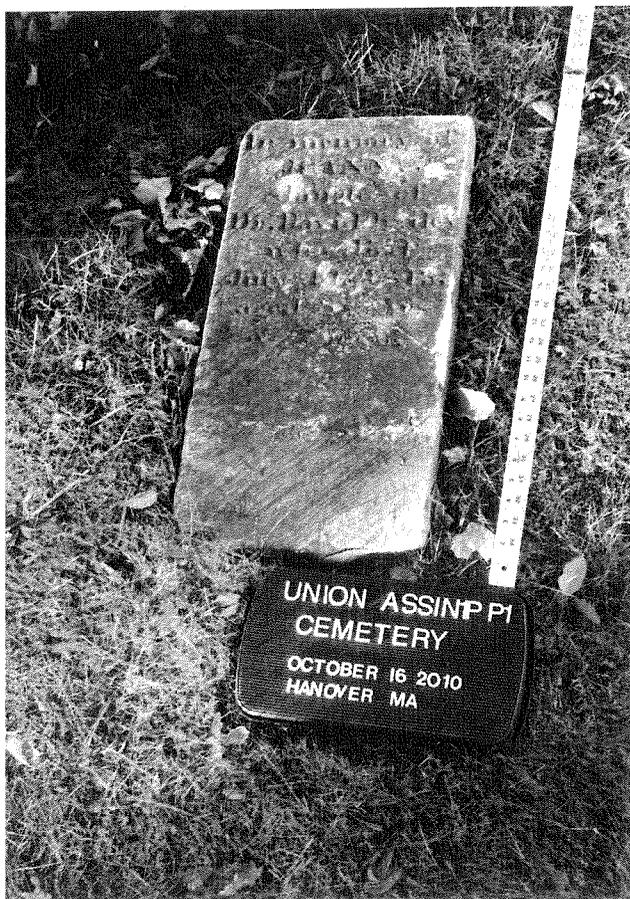
LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
B-43	PROUTY	W., JR.	JAN. 28, 1884	MON	MARBLE	REMOVE DIE. EXCAVATE MARBLE BASES. CLEAN. RESET MARBLE BASES. REMOVE PREVIOUS REPAIR FROM BETWEEN DIE AND BASE. REPIN DIE TO BASE	TILTED/ LOOSE ON PINS	1/C
B-43	PROUTY	MARTHA	N/A	HEAD	MARBLE	EXCAVATE ALL FRAGMENTS. REMOVE PREVIOUS REPAIRS. CLEAN AND EVALUATE. NEW BASE. SET BASE. DRILL & PIN FRAGMENTS. MORTAR INTO BASE. INFILL	BROKEN/ MULTIPLE FRAGMENTS	1/E
B-44	CURTIS	ELIZA FOX	18-May-1905	HEAD	MARBLE/ GRANITE	REMOVE SHRUB! EXCAVATE. CLEAN. RESET (HEAVY)	TILTED	1/A
B-50	ROBINSON?	N/A	N/A	HEAD	MARBLE	EXCAVATE. ASSEMBLE FRAGMENTS. IDENTIFY? INTER FRAGMENTS ON LOT.	BROKEN/ MULTIPLE FRAGMENTS	1/A
2ND LOT EAST OF LOT B-53	WILDER	C. WINTHROP "WINNIE"	SEPT. 11, 1865	HEAD	MARBLE	EXCAVATE BASE. REMOVE PREVIOUS REPAIR. CLEAN. RESET BASE. DRILL AND PIN DIE TO BASE	FALLEN	1/B

UNION ASSINIPPI CEMETERY
 HANOVER MA

GRAVESTONE/MONUMENT
 CONDITION ASSESSMENT
 SECTION B

FANNIN•LEHNER
 10/26/10

LOT#	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
1ST LOT	LITCHFIELD	EMMA G.	1928	MARKER	GRANITE	EXCAVATE. CLEAN. RESET	TILTED	2/A
EAST OF LOT B-54								
B-56	WADE	SNELL	AUG. 29, 1859	MARKER	MARBLE	LOCATE BELOW GRADE BASE. EXCAVATE. CLEAN. RESET BASE. PIN FRAGMENT TO DIE. MORTAR INTO BASE	FALLEN/BROKEN LOOSE ON GROUND	1/B
B-56	WADE	DEBORAH R.	MAR. 11, 1888	MARKER	MARBLE	LOCATE BELOW GRADE BASE. EXCAVATE. CLEAN. RESET BASE. PIN MARKER TO BASE	FALLEN/ LOOSE ON GROUND	1/B
B-57	LAPHAM	SARAH JANE SARAH GERTRUDE	AUG. 11, 1886 FEB. 24, 1887	MON	MARBLE	DISASSEMBLE. EXCAVATE AT-GRADE MARBLE BASE. CLEAN. NEW FOUNDATION. RESET LOWER BASE. REASSEMBLE AND REPIN.	TILTED/ LOOSE ON PINS	1/D



Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery
Hanover MA - 10/17/2010
Set: 1 Photo: 161-1633

Miss Elizabeth Prouty
d. 5/15/1860

Section: A-10
ex: broken

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery
Hanover MA - 10/17/2010
Set: 1 Photo: 161-6159

Infant ex. Prouty
d. 5/12/1860

Section: A-10
ex: tilted

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery
Hanover MA - 10/17/2010
Set: 1 Photo: 161-6163

William Jacobs
d. 6/12/1869

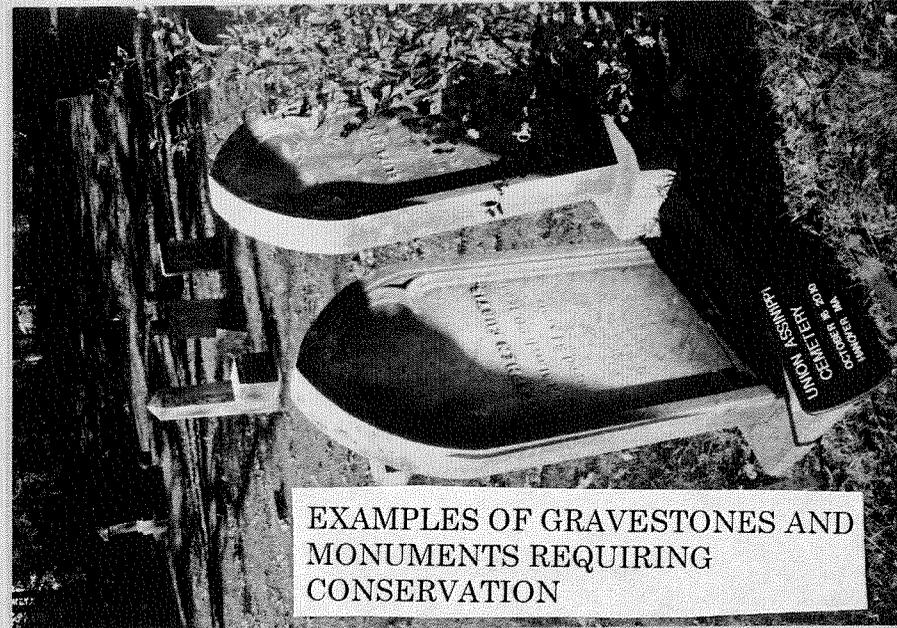
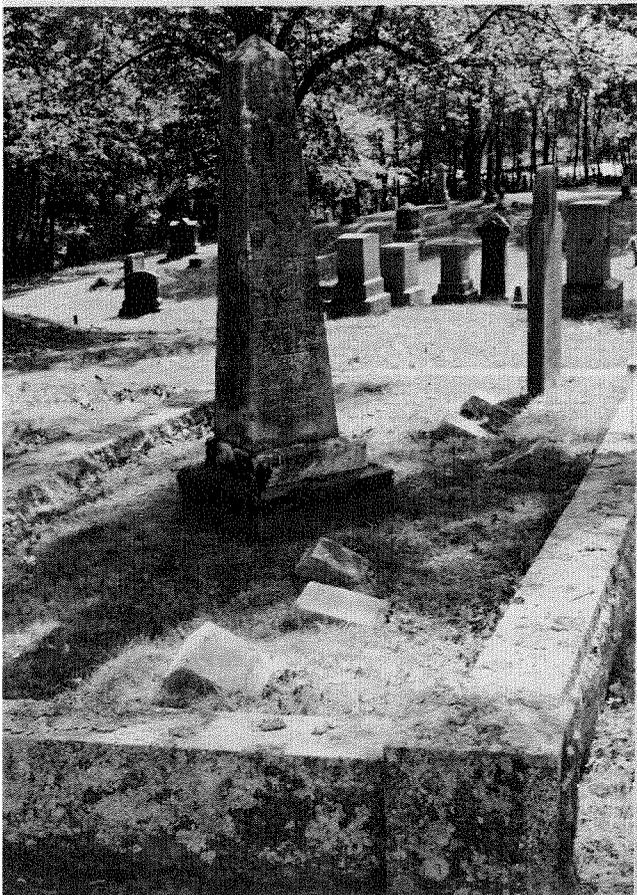
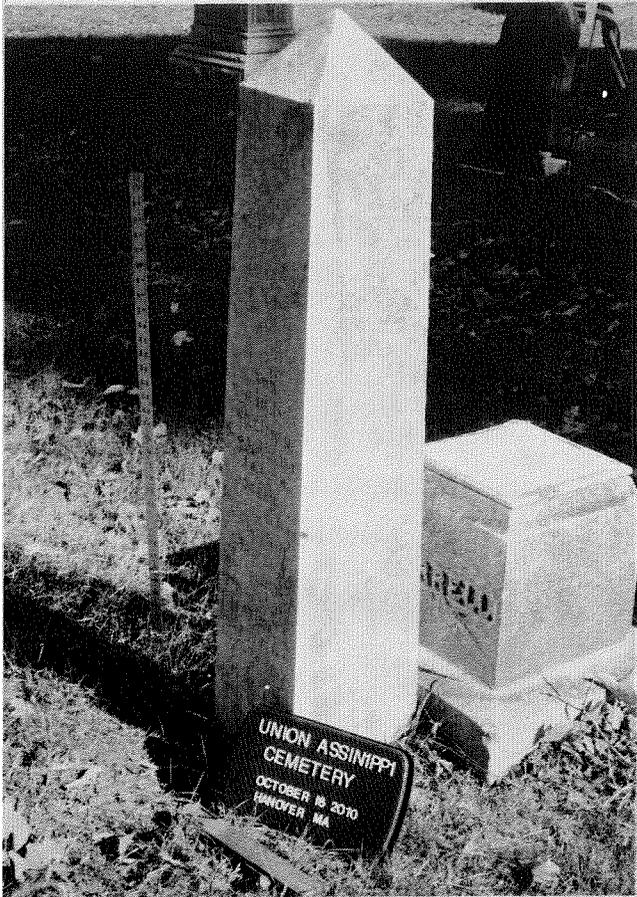
Section: B-26
ex: Fallen/broken

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery
Hanover MA - 10/17/2010
Set: 1 Photo: 161 - 1160

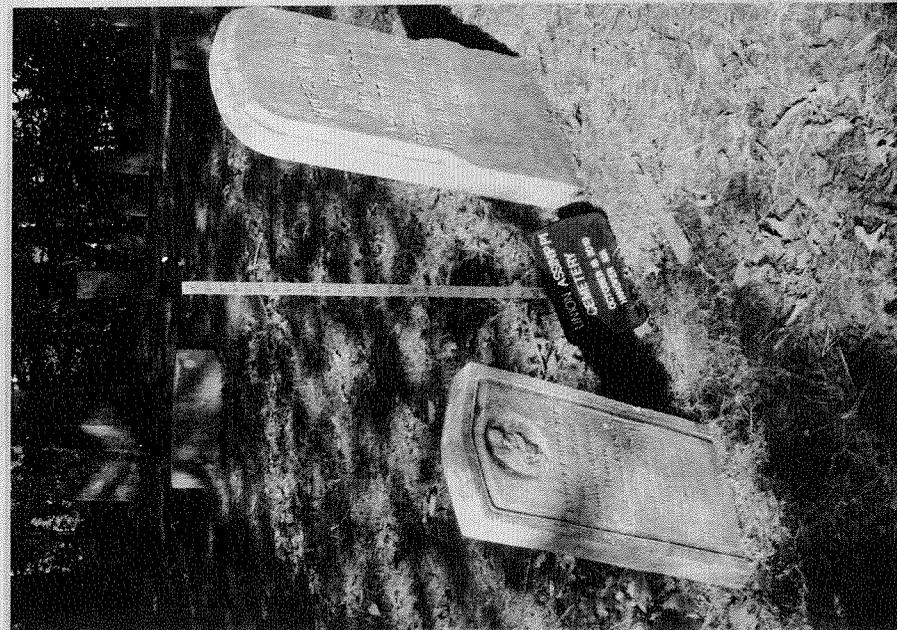
Stoddard - Heman
d. 8/12/1867
Hemans - d. 5/25/1860
Section: A-10
Ruth d. 12/18/1850
FALLEN / 13x10/16x

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery
Hanover MA - 10/17/2010
Set: 1 Photo: 161 - 1163

Tanna Bailey
d. 7/11/1873
Section: A-6
ex: Fallen

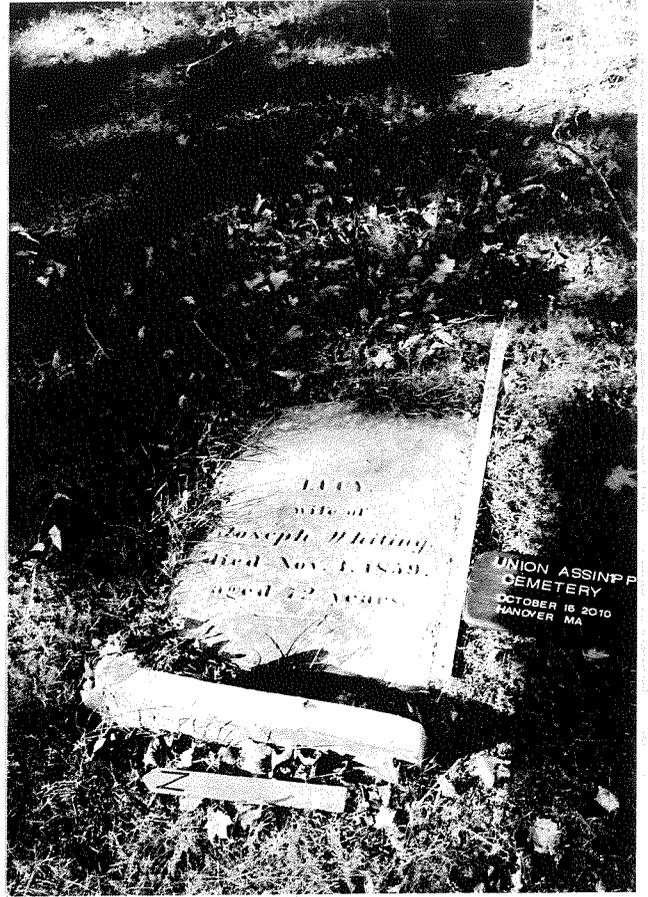


EXAMPLES OF GRAVESTONES AND MONUMENTS REQUIRING CONSERVATION



Fannin•Lehner
 271 Lexington Rd.
 Concord MA 01742
 Union-Assinippi Cemetery Section: B-17
 Hanover MA - 10/17/2010
 Set: 1 Photo: 161-162

Lopham-William
d. 11/26/1881
"mother"
ex: Tilted/fallen



Fannin•Lehner
 271 Lexington Rd.
 Concord MA 01742
 Union-Assinippi Cemetery Section: B-44
 Hanover MA - 10/17/2010
 Set: 1 Photo: 161-161

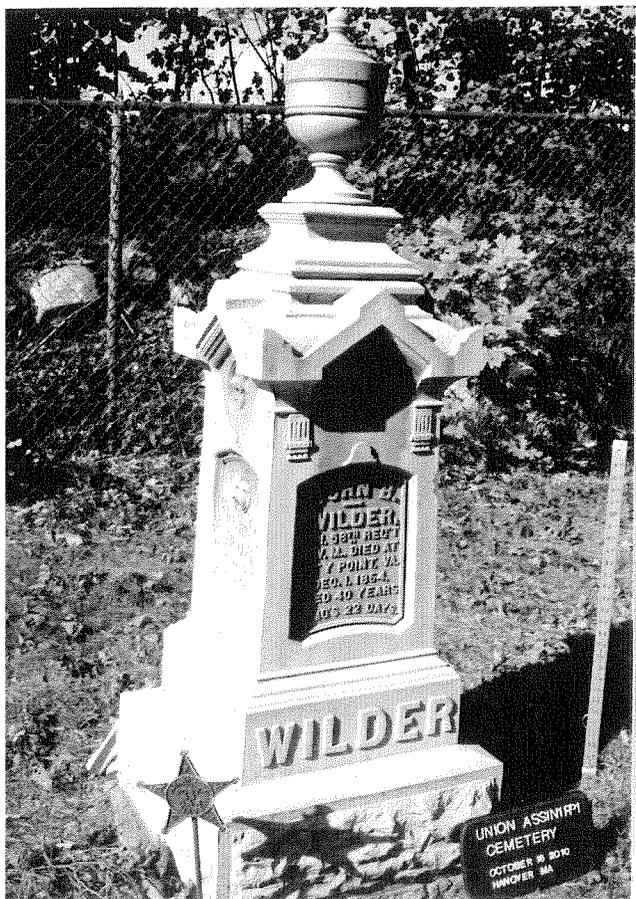
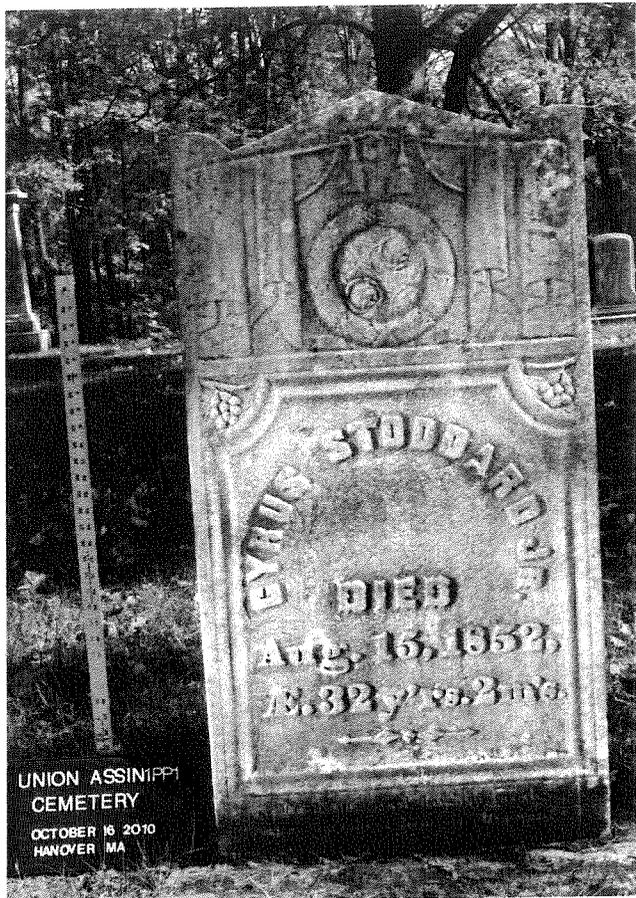
Death - Stephen
d. 3/20/1853
Eliza Fox - d. 5/18/1905
Union-Assinippi Cemetery Section: B-44
marked by vegetation

Fannin•Lehner
 271 Lexington Rd.
 Concord MA 01742
 Union-Assinippi Cemetery Section: A-3
 Hanover MA - 10/17/2010
 Set: 1 Photo: 161-164

Tatman Delisk
4 markers
1824-1888
Section: A-3
Tilted

Fannin•Lehner
 271 Lexington Rd.
 Concord MA 01742
 Union-Assinippi Cemetery Section: A-7
 Hanover MA - 10/17/2010
 Set: 1 Photo: 161-163

Hosea Whiting
d. 4/12/1883
Lydia Dwyer Dyer
d. 1/13/1837
ex: Tilted



Fannin•Lehner
271 Lexington Rd.
Concord MA 01742

Union-Assinippi Cemetery Section: *A-5*
Hanover MA - 10/17/2010 *ex: aesthetic*
Set: 1 Photo: 161 - ~~1609~~

Ansile Jacob
d. 12/17/195

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery Section:
Hanover MA - 10/17/2010 *ex: aesthetic*
Set: 1 Photo: 161 - ~~1618~~

Cyrus Stoddard
d 8/15/1850
B-36

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742

Union-Assinippi Cemetery Section: *A-3*
Hanover MA - 10/17/2010 *ex: aesthetic*
Set: 1 Photo: 161 - ~~6165~~

Gardner - John B
d. 1875
Marietta - d. 1883

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742
Union-Assinippi Cemetery Section: *B-2*
Hanover MA - 10/17/2010 *ex: aesthetic*
Set: 1 Photo: 161 - ~~6161~~

WHITE
Onion
Wilder Family
MON 1874
1859-1874

Fannin•Lehner
271 Lexington Rd.
Concord MA 01742

Union-Assinippi Cemetery Section: *A-13*
Hanover MA - 10/17/2010 *ex: aesthetic*
Set: 1 Photo: 161 - ~~1636~~

Brown - John W.
d. 11/21/1912
Lucinda L. d. 6/12/1899

CONSERVATION COST ESTIMATE
UNION/ASSINIPPI CEMETERY

<u>SECTION</u>	<u>STONES</u>	<u>COST</u>
SECTION A	69	\$34,150
SECTION B	35	\$21,600
UNION/ASSINIPPI TOTAL	<u>104</u>	<u>\$55,750</u>

ESTIMATED COST OF CONSERVATION ----- \$55,750*

*This estimate is based upon 2010 costs and no inflation factor has been included. (Please See Explanatory Notes for Cost Estimate.)

EXPLANATORY NOTES FOR COST ESTIMATE
UNION/ASSINIPPI CEMETERY

1. Cost Estimate – The cost estimates cover the expense of conserving gravestones, monuments and footstones in the two sections (A and B) depicted on the accompanying plan.
2. Phasing of Project - The volume and difficulty of work is such that a phased project is a suggested approach to completion of all the conservation required.
3. Professional Services - The estimate of conservation costs is based upon Fannin•Lehner’s analysis of the professional time requirements for conservation efforts using the firm’s experience gained over twenty-two years of historic burial ground conservation. The figures reflect the firm’s estimated labor costs, expenses and per diem (utilizing 2010 pricing, not adjusted for inflation) for the conservation of the gravemarkers along with the requisite documentation. Fannin•Lehner Preservation Consultants provides for each conserved gravestone or monument “before and “after” photographs as part of a conservation form on which is recorded a summary of the markers problems and all conservation procedures employed. The completed conservation forms and photographs would comprise the report to the Hanover Historical Commission. Prior to any conservation taking place, a limited burial ground permit is obtained from the Massachusetts Historical Commission.
4. Expenses - An estimate for expenses is included in the cost of conservation figure. These expenses include per diem, conservator’s supplies (adhesives, pins, material for new bases, etc.), along with photographic, travel, administrative and other costs associated with the project and the report.
5. Expenses not included in the expense estimate - The costs estimated do not include a supply of sand and peastone for resetting stones or water for cleaning markers, the removal from the site of excess soil excavated from around and under stones and monuments. The cost of lifting equipment to move, disassemble and reassemble large markers and monuments is also not included in the expense estimate. These are all items normally supplied by the client and coordinated by Fannin•Lehner Preservation Consultants. Monument builders, coordinated by Fannin•Lehner Preservation Consultants, may also be contracted for the heavy lifting portion of conservation, which would involve larger gravestones and monuments.

**GUIDE TO GRAVESTONE/MONUMENT CONDITION
ASSESSMENT LISTS**

WEST HANOVER/DARLING CEMETERY

West Hanover/Darling Cemetery has a listing of stones requiring conservation that was developed as follows: Since this is a very small cemetery, all the stones were plotted and those requiring conservation were noted on the accompanying map.

- **MRKR #:** This is the number of the stone as noted on the accompanying map.
- **LAST NAME**
- **FIRST NAME**
- **D OF DEATH:** Complete Date of Death.
- **TYPE:** Head (headstone), Foot (footstone) (FS), Mon (monument), Obelisk, Marker (similar to a headstone but related to a central monument), Fragment.
- **MATERIAL:** Slate, marble, sandstone/brownstone, granite, limestone.
- **NOTES:** Problems experienced by the marker, Gravestone carver (if known), Miscellaneous Information.
- **TREATMENT:** Most common are: reset, adhesive repair, mortar into base, tack, cap and infill. All stones are completely cleaned before conservation is performed. Further treatment may include removing old repairs, re-pinning or new pins, or making a new base or foundation. Some stones must be investigated before treatment can be determined. Other stones need to be reset in the proper location, order or direction.
- **PR/COST:** ("PR") - Priority or urgency of repair with "1" signifying Urgent, "2" - Less urgent but necessary. ("COST") - The estimated cost of conservation of this gravestone/monument/footstone. The scale utilized is as follows:

<u>Category</u>	<u>Cost</u>
A -----	\$225 - 375
B -----	\$450 - 675
C -----	\$750 - 900
D -----	\$975 - 1200
E -----	\$1275 - 1500
F -----	\$1575 - 2250

WEST HANOVER/DARLING CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT

FANNIN-LEHNER
10/26/10

MRKR #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
1	BAKER	ANDREW HERBERT	OCT. 9, 1864	HEAD	MARBLE/ SANDSTONE	EXCAVATE. CLEAN. RESET	TILTED	2/A
3	STUDLEY	NATHAN	JAN. 27, 1850	HEAD	MARBLE	EXCAVATE. REMOVE PREVIOUS REPAIR. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	TILTED/ BASE MISSING?	1/C
6	STUDLEY	CHARLES HENRY	NOV. 18, 1849	HEAD	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	BROKEN BELOW GRADE	1/B
7	STUDLEY	HENRY JACOBS	SEPT. 18, 1843	HEAD	MARBLE	EXCAVATE. CLEAN. RESET	FALLEN	1/A
8	ELLIS	MRS. RUTH	SEPT. 19, 1846	HEAD	MARBLE/ CONCRETE RUBBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE	FALLEN	1/C
10	ELLIS	SPOONER	1868	HEAD	MARBLE/ GRANITE	SEARCH/ PROBE FURTHER FOR TOP FRAGMENT. EXCAVATE. CLEAN. RESET	TILTED/ TOP FRAGMENT MISSING	1/B
11FS	DAVIS	DAVID J.	FEB. 17, 1869	FOOT	MARBLE	EXCAVATE. CLEAN. RESET IN BACK OF HEADSTONE FACING EAST	TILTED/ OUT OF LOCATION	1/A

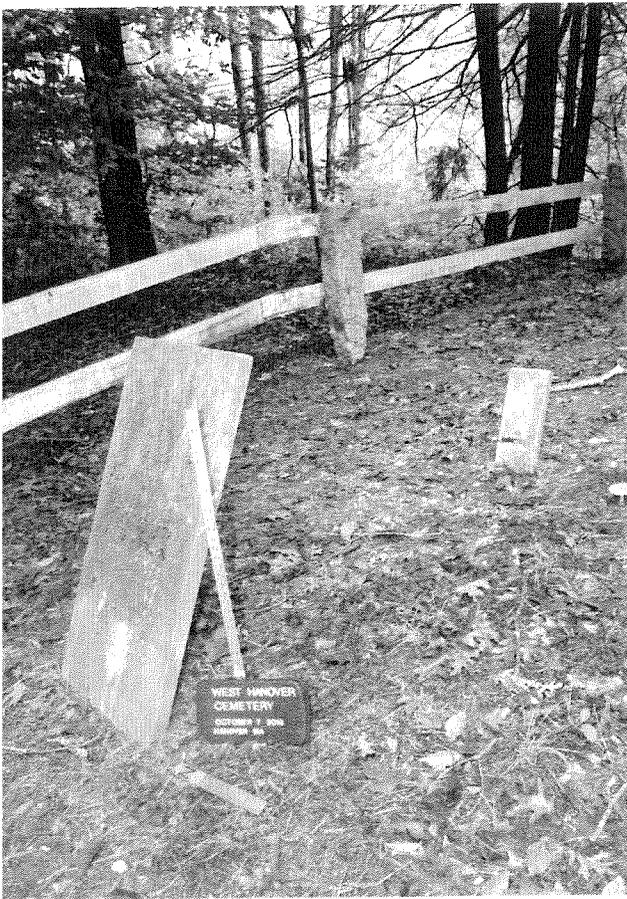
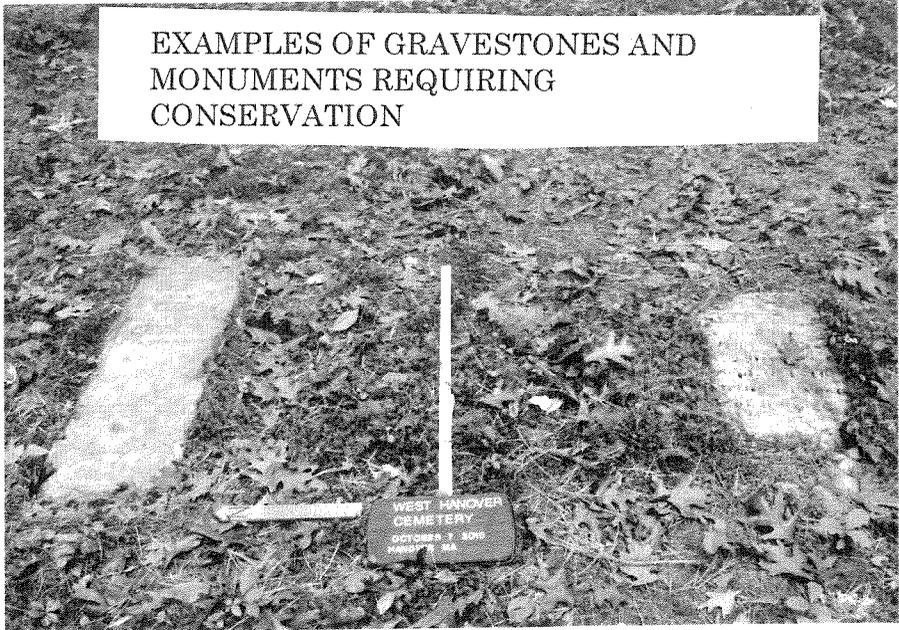
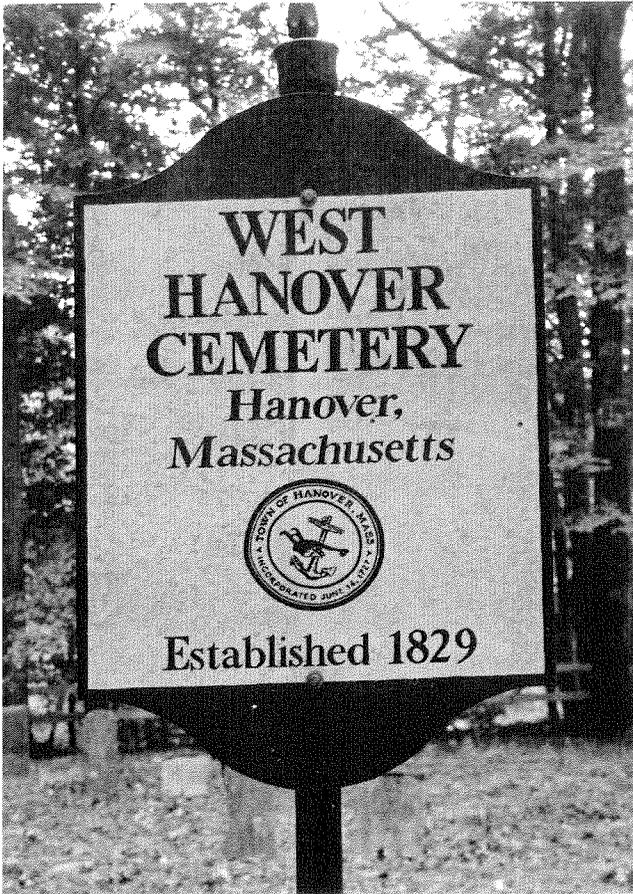
WEST HANOVER/DARLING CEMETERY
HANOVER MA

GRAVESTONE/MONUMENT
CONDITION ASSESSMENT

FANNIN•LEHNER
10/26/10

MRKR #	LAST NAME	FIRST NAME	D OF DEATH	TYPE	MATERIAL	TREATMENT	NOTES	PR/COST
12FS	DAVIS	WILLIAM S.	JUNE 15, 1861	FOOT	MARBLE	EXCAVATE. CLEAN. RESET FACING EAST	TILTED/SUNKEN	1/A
13	DARLING	MR. BENJAMIN	NOV. 16, 1835	HEAD	MARBLE/ CONCRETE PUDDLE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET LOWER	TILTED	2/B
14	DARLING	LYDIA	JULY 30, 1887	HEAD	MARBLE	EXCAVATE. REMOVE PREVIOUS REPAIR. CLEAN. RESET BOTTOM FRAGMENT AND BASE. DRILL AND PIN TOP TO BOTTOM FRAGMENT. INFILL	BROKEN/TILTED	1/C
16	PRATT	NATH'L O. MICHIEL B. ETC.	APR. 30, 1848 AUG. 14, 1848	HEAD	MARBLE	EXCAVATE. CLEAN NEW IN-GROUND BASE. MORTAR INTO BASE	BROKEN/TILTED CARVER: L. JOHNSON	1/C
16FS	PRATT	NATH'L O. MICHIEL B.	APR. 30, 1848 AUG. 14, 1848	FOOT	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. RESET FACING EAST	TILTED/ RAISED	1/A
17FS	WINSLOW	HARRIET	NOV. 29, 1836	FOOT	MARBLE	EXCAVATE. REMOVE CONCRETE. CLEAN. NEW BASE. SET BASE. MORTAR INTO BASE FACING EAST.	TILTED/SUNKEN	1/B
18FS	WINSLOW	HENRY	JAN. 29, 1858	FOOT	MARBLE	EXCAVATE. CLEAN. RESET FACING EAST	TILTED/RAISED	1/A

EXAMPLES OF GRAVESTONES AND MONUMENTS REQUIRING CONSERVATION



Fannin•Lehner
271 Lexington Road
Concord, MA01742
West Hanover Cemetery
Hanover, MA - 10/7/10

Set: 1 Photo: 160-6083 Before

ex: Fallen stones

Studley - Henry Jacob
d. 9/18/1843
Mrs. Ruth - d. 9/19/1846
7+8

Fannin•Lehner
271 Lexington Road
Concord, MA01742
West Hanover Cemetery
Hanover, MA - 10/7/10

Set: 1 Photo: 160-6082 Before

West Hanover Sign
est. 1829

Fannin•Lehner
271 Lexington Road
Concord, MA01742
West Hanover Cemetery
Hanover, MA - 10/7/10

Set: 1 Photo: 160-6084 Before

ex: Broken

Lydia Darling
d. 7/30/1887
19

Fannin•Lehner
271 Lexington Road
Concord, MA01742
West Hanover Cemetery
Hanover, MA - 10/7/10

ex: Tilted

Set: 1 Photo: 160-6085 Before
Patt. Nathl D.
d. 4/30/1848
Michael B.
d. 8/14/1848
16+16FS

Fannin•Lehner
271 Lexington Road
Concord, MA01742
West Hanover Cemetery
Hanover, MA - 10/7/10

Set: 1 Photo: 160-6086 Before

ex: Tilted

Davis - David J.
d. 2/17/1869
Williams. d. 6/15/1861
11FS + 12FS

CONSERVATION COST ESTIMATE
WEST HANOVER/DARLING CEMETERY

Total number of gravestones and monuments, requiring conservation as
determined by assessment----- 14

Estimated cost of conservation of 14 gravestones and monuments, including
expenses: ----- \$7260.00

ESTIMATED COST OF CONSERVATION ----- \$7,260*

*This estimate is based upon 2010 costs and no inflation factor has been
included. (Please See Explanatory Notes for Cost Estimate.)

EXPLANATORY NOTES FOR COST ESTIMATE
WEST HANOVER/DARLING CEMETERY

1. Cost Estimate – The cost estimates cover the expense of conserving the fourteen gravestones, monuments and footstones depicted on the accompanying plan.
2. Phasing of Project - The conservation requirements of West Hanover/Darling cemetery are such that they can be accomplished in a single phase project.
3. Professional Services - The estimate of conservation costs is based upon Fannin•Lehner’s analysis of the professional time requirements for conservation efforts using the firm's experience gained over twenty-two years of historic burial ground conservation. The figures reflect the firm’s estimated labor costs, expenses and per diem (utilizing 2010 pricing, not adjusted for inflation) for the conservation of the gravemarkers along with the requisite documentation. Fannin•Lehner Preservation Consultants provides for each conserved gravestone or monument “before and “after” photographs as part of a conservation form on which is recorded a summary of the markers problems and all conservation procedures employed. The completed conservation forms and photographs would comprise the report to the Hanover Historical Commission. Prior to any conservation taking place, a limited burial ground permit is obtained from the Massachusetts Historical Commission.
4. Expenses - An estimate for expenses is included in the cost of conservation figure. These expenses include per diem, conservator’s supplies (adhesives, pins, material for new bases, etc.), along with photographic, travel, administrative and other costs associated with the project and the report.
5. Expenses not included in the expense estimate - The costs estimated do not include a supply of sand and peastone for resetting stones or water for cleaning markers, the removal from the site of excess soil excavated from around and under stones and monuments. The cost of lifting equipment to move, disassemble and reassemble large markers and monuments is also not included in the expense estimate. These are all items normally supplied by the client and coordinated by Fannin•Lehner Preservation Consultants. Monument builders, coordinated by Fannin•Lehner Preservation Consultants, may also be contracted for the heavy lifting portion of conservation, which would involve larger gravestones and monuments.

COST ESTIMATE SUMMARY - HANOVER CEMETERIES**HANOVER CENTER CEMETERY**

<u>SECTION</u>	<u>STONES</u>	<u>COST</u>
A	15	\$8000
B	52	\$30,075
C	34	\$18,970
D	53	\$23,440
E	80	\$40,380
F	51	\$30,500
G	8	\$3650
TOTAL-A TO G	293	<u>\$155,015</u>
OLD SECT 1	83	\$34,150
OLD SECT 2	52	\$23,440
OLD SECT 3	7	\$3650
TOTAL-OLD SEC. 1-3	142	<u>\$61,240</u>
<u>HANOVER CENTER TOTAL</u>	<u>435</u>	<u>\$216,255</u>

UNION/ASSINIPPI CEMETERY

<u>SECTION</u>	<u>STONES</u>	<u>COST</u>
SECTION A	69	\$34,150
SECTION B	35	\$21,600
UNION/ASSINIPPI TOTAL	104	<u>\$55,750</u>

WEST HANOVER/DARLING CEMETERY

	<u>STONES</u>	<u>COST</u>
	14	\$7260
WEST HANOVER TOTAL	14	<u>\$7260</u>
<u>GRAND TOTALS</u>	553	\$279,265

TOTAL ESTIMATED COST OF CONSERVATION OF
553 GRAVESTONES/MONUMENTS **\$279,265***

*This estimate is based upon 2010 costs and no inflation factor has been included. The estimate does not include costs for lifting equipment to disassemble/reassemble large monuments (See Explanatory Notes for Cost Estimate.)

EXPLANATORY NOTES FOR SUMMARY COST ESTIMATE
HANOVER CEMETERIES

1. Cost Estimate – The summary cost estimate covers the expense of conserving gravestones, monuments and footstones in the three Hanover cemeteries: Hanover Center Cemetery, Union/Assinippi Cemetery and West Hanover/Darling Cemetery.

2. Phasing of Project - The volume and difficulty of work is such that a phased project is a suggested approach to completion of all the conservation required.

3. Professional Services - The estimate of conservation costs is based upon Fannin•Lehner’s analysis of the professional time requirements for conservation efforts using the firm’s experience gained over twenty-two years of historic burial ground conservation. The figures reflect the firm’s estimated labor costs, expenses and per diem (utilizing 2010 pricing, not adjusted for inflation) for the conservation of the gravemarkers along with the requisite documentation. Fannin•Lehner Preservation Consultants provides for each conserved gravestone or monument “before and “after” photographs as part of a conservation form on which is recorded a summary of the markers problems and all conservation procedures employed. The completed conservation forms and photographs would comprise the report to the Hanover Historical Commission. Prior to any conservation taking place, a limited burial ground permit is obtained from the Massachusetts Historical Commission.

4. Expenses - An estimate for expenses is included in the cost of conservation figure. These expenses include per diem, conservator’s supplies (adhesives, pins, material for new bases, etc.), along with photographic, travel, administrative and other costs associated with the project and the report.

5. Expenses not included in the expense estimate - The costs estimated do not include a supply of sand and peastone for resetting stones or water for cleaning markers, the removal from the site of excess soil excavated from around and under stones and monuments. The cost of lifting equipment to move, disassemble and reassemble large markers and monuments is also not included in the expense estimate. These are all items normally supplied by the client and coordinated by Fannin•Lehner Preservation Consultants. Monument builders, coordinated by Fannin•Lehner Preservation Consultants, may also be contracted for the heavy lifting portion of conservation, which would involve larger gravestones and monuments.

GRAVESTONE AND MONUMENT DETERIORATION IN HANOVER CEMETERIES

Causes of Deterioration

Gravestones represent some of the earliest examples of sculptural art created in America. Despite this, they exist in a basically hostile environment, one far different from other precious art objects. In Hanover MA, as elsewhere in the Northeast, the effects of freezing and thawing are particularly severe while in the summer months stone temperatures often exceed 120 degrees. Many of the gravestones and monuments difficulties result from their existence in this harsh climate; others result from acts of individuals, both careless and deliberate.

Environmental

Freeze/Thaw Damage The classic problem experienced by markers is tilting and eventually falling or breaking off. The frost depth in Hanover is below the bottom of almost all of the markers and foundations, where these exist. Over the years, frost pushes the stones upward; they become unstable and eventually fall. In addition, tabletstone markers, which have no base but are set directly into the earth are weakened at the freeze/thaw line along the ground level and often fail at that point when they tilt. As a rule of thumb, any tabletstone that is tilting more that 1" to 1 ½" out of plumb should be reset.

Deterioration of Marble and Limestone Due to Acidic Attack Calcareous stone (stones containing substantial amounts of calcium - including marble and limestone) is subject to degradation due to the acidic environment in which it exists. This type of marker loses surface in such a way that "sugar decay" is the term used to describe the results of the degradation. As more mass is lost to the acidic environment, the inscription is ultimately obliterated and the marker becomes thinner and weaker. All the marble stones and monuments suffer to some degree from this type of deterioration in the Hanover cemeteries.

Topography The type of soil and slopes in some cemeteries contribute to the instability of gravestones and monuments. Over time, the effects of erosion and the migration of soil down slopes destabilizes some markers causing them to tilt and some to fall.

Biological Degradation Stones of all types are subject to biological activity, including fungal, algae and lichenous growth, mosses, vines or bird droppings. Lichens produce acid that can cause surface loss, particularly in marble and limestone. As lichen, etc., need relatively clean air to thrive, biological growth is very evident in the Hanover cemeteries. If biological growth is covering a stone so as to obscure the inscription, it is recommended that the marker be cleaned.

Trees and Plantings These can be both intentional and volunteer and often cause great harm to gravestones. Falling branches and tree trunks can devastate a number of markers and the action of roots frequently causes stones of all sizes to tilt, fall and shatter. Trees, yucca plants and overgrown shrubs present a definite problem in Hanover cemeteries.

Manmade

Vandalism The Hanover cemeteries appear to have been damaged to some degree by vandalism in the past. Evidence of this scourge of burying grounds is found in traumatically broken stones which otherwise would not have fallen. Maintaining a yard in good condition is considered to be the best deterrent to vandalism. Still, instances occur so the markers need frequent monitoring.

Grounds Maintenance With the time and financial pressures faced by cemeteries, larger and faster mowers have been brought into the burial grounds and substantially closer passes made to avoid time-consuming trimming. This has caused an increase in the number of mower strikes found in almost all cemeteries. While not usually "fatal" in that they don't cause immediate failure of the marker, the chipping found at the lower edges and the deeper scratches provide openings in the stone envelope, which allow the penetration of water. This can eventually be very detrimental to the long-term survival of the gravestones.

Overall there is relatively careful and commendable grounds maintenance in the Hanover cemeteries.

The use of string trimmers around gravestones has been debated for some time. On softer stones such as sandstone and to some degree, slate and marble, there is concern that damage can result from long-term use of these units. Fannin • Lehner believes the use of string trimmers around stones assists greatly in the reduction of the mower strikes that cause such major damage to markers, and, although more time is required to maintain the cemetery, the need for frequent conservation is greatly reduced.

Fannin • Lehner Preservation Consultants recommends against using herbicides (such as "Roundup") around gravestones and monuments for two reasons. First, it leaves a "dead zone" around the marker, which turns to mud in rain and splashes considerable dirt onto the stone. This provides a perfect medium for the propagation of biological growth on the marker, which is detrimental to the stone and ultimately obscures the carving. Secondly, there is a growing concern that herbicides, defoliants, fungicides and fertilizers may have a detrimental long-term effect on gravestones. Unfortunately, there is only the smallest beginning of research into this matter, but "less is more" is the most prudent course when these interventions are considered.

Previous Stone Repair Over the years a standard well-meaning repair of markers broken off parallel to the ground was to stand them in a bed of concrete poured into a hole dug into the ground. Experience has proved that the differential expansion of this very hard concrete and the softer stone it surrounds can cause eventual failure of the marker, although this may require many years to transpire. Repair of broken markers with concrete or other inappropriate adhesives, which then fail, often results in substantial time-consuming work on the part of a stone conservator to remove these materials before proper conservation can be initiated. Unfortunately, during the 1940's there was substantial concrete used in the Hanover cemeteries with the best of intentions, but this past practice has greatly complicated proper conservation of the gravestones.

STONE CONSERVATOR:
TECHNICAL RECOMMENDATIONS FOR PROJECT COMPLETION

SECTION I - GENERAL

A. **STANDARDS OF PRACTICE** -- All work performed should be accomplished in accordance with the Code of Ethics and Standards of Practice of the American Institute for the Conservation of Historic and Artistic Works (AIC). Conservators not holding membership in AIC should secure these documents and utilize them for guidance during the project.

For projects in the Commonwealth of Massachusetts, a burial ground permit must be obtained from the Massachusetts Historical Commission, Archives Building, 220 Morrissey Boulevard, Boston MA 02125, ATTN: Burial Ground Officer. To satisfy the requirements of this permit, a photocopy of the completion report must be transmitted to the Massachusetts Historical Commission.

B. **DOCUMENTATION** -- The stone conservator is responsible for the documentation of all conservation work he/she executes. All work done by the conservator must be documented thoroughly with "Before" and "After" photographs along with a two-page inventory form similar to the one included with these materials. All conservation procedures performed will be described on the form and a complete inscription included. All forms become the property of the authority responsible for the cemetery.

SECTION II – BASIC PROCEDURES

A. PREPARATION -- Of primary importance in the performance of any conservation procedure is extremely thorough preparation of the gravestone or monument as well as the site. Resetting requires careful attention to the preparation of the hole into which the base of the stone is set along with meticulous care in setting the stone level and plumb. Adhesive repairs require clean, degreased and dry surfaces and careful adherence to temperature restrictions of the repair material. When performing conservation procedures there is no substitute for careful, thorough preparation.

B. CLEANING -- washing with water and scrubbing with soft to medium bristle brushes can dramatically improve the appearance of many gravestones and monuments. It is important to gently remove biological growths such as algae or lichen as they trap moisture against the stone.

All markers must be entirely and thoroughly cleaned before conservation procedures, including resetting, are undertaken. Washing with water at hose pressure, using brushes, is permissible. Pressure/power washing of the soft stone markers (marble, slate, and sandstone) is not allowed due to the adverse and irreversible effects of this method. Use of a non-ionic detergent such as Photo-Flo 200 (Kodak) is encouraged.

C. RESETTING -- This is a basic procedure to prevent serious damage to tilting markers. It involves the excavation of the stone and resetting in a sand and peastone mixture, which is carefully compacted and provides the proper support and drainage. Tabletstones, small monuments, etc., which require resetting will be reset in a 1:1 sand/peastone mixture. A large enough excavation must be made to allow the stone to be supported on all sides by this mixture. There must be a minimum of 3 inches below the bottom of any tabletstone and 10 inches below the base of any monument. The mixture must be wet down and compacted thoroughly in 4-inch lifts to make certain complete compaction takes place. All markers must be level and plumb after resetting.

In no case should marble, slate, soapstone or sandstone fragments be placed in concrete due to the deleterious effects of this method. Stones currently set this way generally should be left as is, unless the concrete is failing, since attempts to free the marker can result in even more damage to the stone.

SECTION III – ADVANCED PROCEDURES

A. ADVANCED CLEANING -- Conservation cleaners are available specifically designed for stone and similar materials, e.g. Vulpex. D/2 Biological Solution, (Cathedral Stone Co. 800-684-0901) is a very effective product for stone cleaning and is in widespread use by gravestone preservation professionals. When using D/2 it is very important to follow the application guidelines noted by the manufacturer. Calcium hypochlorite is a useful chemical for elimination of biological growth on gravestones. It should be used in a solution of 1 oz. to 1 gallon of warm water. Since the solution may react with some elements within a stone, careful testing through the use of test patches is strongly advised.

The goal is to remove atmospheric dirt and biological growth, not to return the stones to "like new" coloration. On any surfaces to be adhesively repaired, final cleaning with denatured alcohol and acetone after initial cleaning with water is required to assure proper bonding.

B. ADHESIVE REPAIR -- For repairs of any stone type, surfaces to be adhered must be clean and free of all contaminants. The stones should be initially cleaned with water and a non-ionic detergent (Photo-Flo 200, Vulpex or D/2), then the faces of the break cleaned with denatured alcohol, then acetone as a final application. Care should be taken to avoid any handling of cleaned break faces before the adhesive is applied once the acetone application has been completed.

SLATE: Repair should be made using Akemi Akepox 2010 Knife Grade stone epoxy (available from Stone Boss, Inc. 888-868-BOSS) or equal as submitted to and approved in writing by the client.

MARBLE: Repair with epoxy alone will be performed with "Barre-Pak" two-part stone epoxy (available from Miles Supply, Barre VT 802-476-3963) or Akemi Akepox 2010 Knife Grade stone epoxy or equal as submitted to and approved in writing by the client.

SANDSTONE: Repair with epoxy alone will be performed with "Barre-Pak" two-part stone epoxy (available from Miles Supply, Barre VT 802-476-3963) or Akemi Akepox 2010 Knife Grade stone epoxy or equal as submitted to and approved in writing by the client.

REQUIREMENTS FOR ADHESIVE REPAIRS: Extreme care must be taken to keep a minimum of adhesive from squeezing onto the face or back of the stone during the procedure. Any adhesive that does squeeze out of the break must be removed before it sets up using a solvent for epoxy adhesive, such as acetone. Utilizing the "squeeze" as infill and grinding it down when set is not recommended. For sandstone the adhesive should be applied in dots, not spread over the surface to permit moisture to pass through the repair. Clamp all repairs for a minimum of 8 hours.

C. BLIND PINNING -- The gravestone conservator is responsible for determining when drilling and blind pinning is necessary in the conservation of damaged stones. Slate stones are rarely pinned, especially under field conditions. It is recommended that broken marble, limestone and sandstone gravestones and monuments be pinned. Pins used will be consistent with the pinning technique selected and secured in place with an appropriate adhesive such as Akemi Akepox 2010 knife grade stone epoxy as available from Stone Boss Inc. (888-868-BOSS). Pin materials may be fiberglass (available from Preservation Resource Group -PRG- 800-774-7891, www.prg.com), stainless steel, and bronze. No aluminum, copper or iron pins are permissible.

D. MORTARING INTO A BASE -- Markers will be reinserted with mortar into the slots of their original bases, if in the judgment of the gravestone conservator, the slot will properly support the stone. The mortar utilized must be a soft, high lime type to permit expansion and contraction of the stone while continuing to hold it in place. A formulation of 1 part Type I/II white Portland cement, 4 parts hydrated lime and 8 parts fine sand is recommended. Straight cement or commercial pre-mixed mortars should never be used for this procedure.

E. REPLACEMENT BASES -- In cases where replacement bases are necessary to reerect a marker, a base will be cast from concrete (Sakrete Concrete Mix or equal) with a slot set into it that is sized to contain the stone with sufficient space around it to permit solid packing with soft, high-lime mortar. Bases must be of a size to securely support the stone. Replacement bases are to be set in the ground with the top 1-3 inches below grade in a sand/peastone mixture (minimum 4" below and 2" on all sides.) The mortar must be of a soft high lime type to permit expansion and contraction of the stone while continuing to hold it in place. A formulation of 1 part Portland cement, 4 parts hydrated lime and 8 parts fine sand is recommended. Straight cement or commercial pre-mixed mortars should never be used for this procedure. In some cases, where the size and design of the damaged original base is known, new matching marble or granite bases can be obtained through a monument company.

F. INFILLS -- Areas of loss along breaks must be infilled in a neat and workmanlike manner using a cementitious material, which closely matches the stone being patched. For marble, an infill material consisting of 2 parts white Portland cement, 1 part hydrated lime, and 7 parts marble dust (calcite grains) or white sand is recommended. For slate, a mortar consisting of 2 parts gray cement, 1 part hydrated lime and 7 parts very fine dark sand may be used. For sandstone, a mortar consisting of 2 parts gray cement, 1 part hydrated lime and 7 parts colored mortar aggregate is acceptable. All infills must be kept moist for 48 hours to assure proper curing. Use of Natural Hydraulic Lime (NHL) mortars (e.g. Virginia Lime Works NHL 2 or 3.5 and Mix&Go mortar mix - www.virginalimeworks.com or U.S. Heritage Co. - usheritage.com) for infills is another material that performs well. More time is needed for curing of lime mortars and freezing during curing must to be avoided. Other formulations regularly used by the conservator are acceptable alternates, including Jahn Patching Mortars (Cathedral Stone Co., (800) 684-0901), and Edison Coating products Custom System 45 and Rosendale Mortars (Edison Coatings, Inc.(800) 697-8055) as long as they meet the color guidelines.

F. FRAGMENTS -- Whenever possible, fragments should be readhered to the marker in a neat fashion, using approved adhesives and providing infills if aesthetics or water shedding needs require. Very small infills for marble may be

created from white Portland cement and lime, while larger ones must have a proper colored aggregate added to preclude shrinking. Tinting of infills is permitted within limits specified by the manufacturer of the colorant. Jahn Marble Patching Mortar or Edison mortars may be used for infills if color match is acceptable.

When fragments are in a condition that is too weak for adhesive repair, a "backer" stone of similar size and material is sometimes used to permit the fragments to be reset. The procedure is to adhere the fragments to this stone and then set it up. This "backer" may be long enough to reset in sand and peastone or a concrete base can be utilized to secure the "backer" and attached fragments in a vertical position.

CEMETERY: HANOVER CENTER CEMETERY

Location: Hanover, Massachusetts

Record Date _____

Name: _____

 Last First Middle

Date of Death: _____

Marker Type: _____

Stone Carver: _____

Ref/Sec _____

Orientation: N S E W

Dimensions:(In.)W _____ H _____ D _____

No. of People Commemorated _____

Negative: Roll Photo

Before _____ _____

After _____ _____

Recorder: Fannin•Lehner

MATERIAL: 1. Slate 2. Marble 3. Sandstone 4. Granite 5. Other _____

CARVED SURFACES: 1. Front 2. Back 3. Top 4. End Panels 5. Other _____

MOTIF:

- 1. Winged Skull
- 2. Winged Face
- 3. Urn/Willow
- 4. Floral/Foliage
- 5. Other
- 6. None

BORDER:

- 1. Elaborate
- 2. Simple
- 3. None
- 4. Motif

CARVING:

- 1. Mint
- 2. Clear but worn
- 3. Mostly Deciph.
- 4. Traces
- 5. Illegible

BASES:

- 1. Marble
- 2. Granite
- 3. Sandstone
- 4. Other
- 5. None

PREVIOUS REPAIR WORK:

- 1. None Evident
- 2. Replacement Bases
- 3. Adhesive Repair
- 4. Enframments
- 5. Other

"BEFORE" Photograph

CONDITIONS:

- 1. Sound _____
- 2. Broken _____
- 3. Fallen/Tilted/Sunken/Raised _____
- 4. Chipped _____
- 5. Cracked _____
- 6. Biological Activity _____
- 7. Soiling/Stains _____
- 8. Delamination _____
- 9. Erosion/Sugar Decay _____
- 10. Flaking/Blistering _____
- 11. Fragments _____
- 12. Losses _____

NOTES: _____

CEM/BURIAL GROUND: HANOVER CENTER CEMETERY Hanover, MA

Name: _____ Date of Death: _____ Ref/Sec _____
Last First Middle

Inscription:

Conservation Notes:

"AFTER" Photograph

CEMETERY: UNION/ASSINIPPI CEMETERY

Location: Hanover, Massachusetts

Record Date _____

Name: _____

 Last First Middle

Date of Death: _____

Marker Type: _____

Stone Carver: _____

Ref/Sec _____

Orientation: N S E W

Dimensions: (In.) W _____ H _____ D _____

No. of People Commemorated _____

Negative: Roll Photo

Before _____ _____

After _____ _____

Recorder: **Fannin•Lehner**

MATERIAL: 1. Slate 2. Marble 3. Sandstone 4. Granite 5. Other _____

CARVED SURFACES: 1. Front 2. Back 3. Top 4. End Panels 5. Other _____

MOTIF:

- 1. Winged Skull
- 2. Winged Face
- 3. Urn/Willow
- 4. Floral/Foliage
- 5. Other
- 6. None

BORDER:

- 1. Elaborate
- 2. Simple
- 3. None
- 4. Motif

CARVING:

- 1. Mint
- 2. Clear but worn
- 3. Mostly Deciph.
- 4. Traces
- 5. Illegible

BASES:

- 1. Marble
- 2. Granite
- 3. Sandstone
- 4. Other
- 5. None

PREVIOUS REPAIR WORK:

- 1. None Evident
- 2. Replacement Bases
- 3. Adhesive Repair
- 4. Enframments
- 5. Other

"BEFORE" Photograph

CONDITIONS:

- 1. Sound _____
- 2. Broken _____
- 3. Fallen/Tilted/Sunken/Raised _____
- 4. Chipped _____
- 5. Cracked _____
- 6. Biological Activity _____
- 7. Soiling/Stains _____
- 8. Delamination _____
- 9. Erosion/Sugar Decay _____
- 10. Flaking/Blistering _____
- 11. Fragments _____
- 12. Losses _____

NOTES: _____

FANNIN•LEHNER Gravestone Conservation Inventory Form - Page 2

CEM/BURIAL GROUND: UNION/ASSINIPPI CEMETERY Hanover, MA

Name: _____ Date of Death: _____ Ref/Sec _____
Last First Middle

Inscription:

Conservation Notes:

"AFTER" Photograph

CEMETERY: WEST HANOVER/DARLING CEMETERY

Ref/Sec _____

Location: Hanover, Massachusetts

Orientation: N S E W

Record Date _____

Dimensions: (In.) W _____ H _____ D _____

Name: _____

Last First Middle

No. of People Commemorated _____

Date of Death: _____

Negative: Roll Photo

Marker Type: _____

Before _____

Stone Carver: _____

After _____

Recorder: Fannin•Lehner

MATERIAL: 1. Slate 2. Marble 3. Sandstone 4. Granite 5. Other _____

CARVED SURFACES: 1. Front 2. Back 3. Top 4. End Panels 5. Other _____

MOTIF:

BORDER:

CARVING:

BASES:

- 1. Winged Skull
- 2. Winged Face
- 3. Urn/Willow
- 4. Floral/Foliage
- 5. Other
- 6. None

- 1. Elaborate
- 2. Simple
- 3. None
- 4. Motif

- 1. Mint
- 2. Clear but worn
- 3. Mostly Deciph.
- 4. Traces
- 5. Illegible

- 1. Marble
- 2. Granite
- 3. Sandstone
- 4. Other
- 5. None

PREVIOUS REPAIR WORK:

- 1. None Evident
- 2. Replacement Bases
- 3. Adhesive Repair
- 4. Enframements
- 5. Other

CONDITIONS:

"BEFORE" Photograph

- 1. Sound _____
- 2. Broken _____
- 3. Fallen/Tilted/Sunken/Raised _____
- 4. Chipped _____
- 5. Cracked _____
- 6. Biological Activity _____
- 7. Soiling/Stains _____
- 8. Delamination _____
- 9. Erosion/Sugar Decay _____
- 10. Flaking/Blistering _____
- 11. Fragments _____
- 12. Losses _____

NOTES:

CEM/BURIAL GROUND: WEST HANOVER/DARLING CEMETERY Hanover, MA

Name: _____ Date of Death: _____ Ref/Sec _____
 Last First Middle

Inscription:

Conservation Notes:

"AFTER" Photograph

Record Date: July 12, 2010
Name: Bruce, James E.
Date of Death: October 19, 1840
Marker Type: Headstone Detail:
Stone Carver:
Material: Marble Other:
Carved Surfaces: Front
Motif: None Detail:
Border: Simple Detail: Single line
Carving: Mostly Deciph.
Bases: None Other:

Ref / Sec: 88
Orientation: W
No. of People Commemorated: 1
Dimensions: (In) W 11 1/2 H 28 D 2
Negative: Before Roll: ____ Photo:
Negative: After Roll: ____ Photo:

CONDITIONS

Sound:
Broken: Yes
Sunken Details:
Previous Repair: None Evident

Detail:

Chipped: Along edges

Cracked: vertical crack center of stone and along proper right edge

Biological Activity: Heavy lichen, algae

Soiling/Stains: Atmospheric, biological

Delamination: On back and at break in back

Sugar Decay : Detail:Advancing

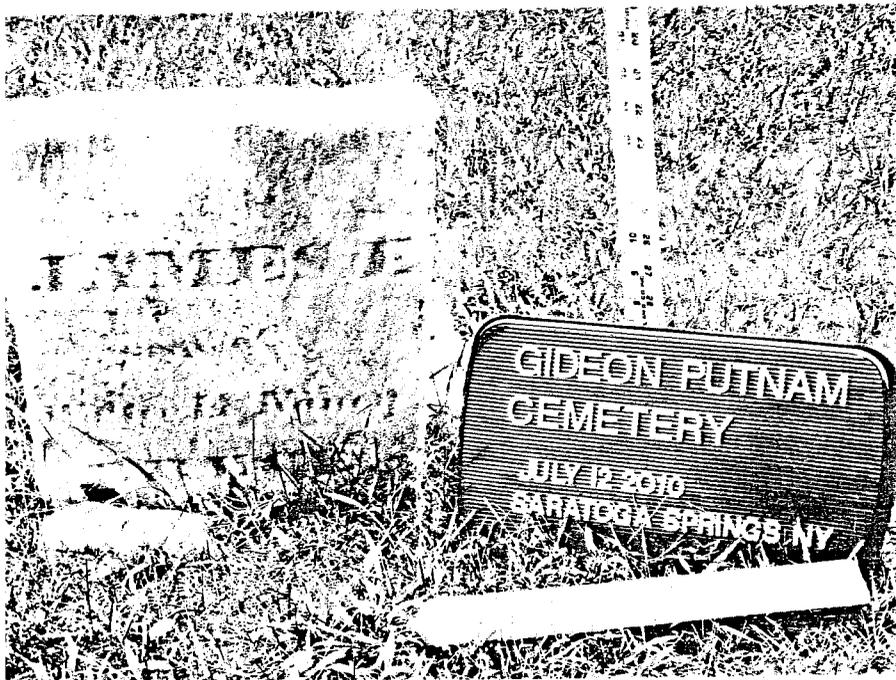
Flaking : Detail:

Fragments: Two

Losses: Delaminations on back and losses at break

NOTES:

Before Photo



Name: Bruce, James E. Date of Death: Oct. 19, 1840 Ref/Sec: 88

Conservation Notes: 7/10 - 1) test fit between top and bottom fragment proved there is sufficient conformation to proceed. 2) Bottom fragment excavated and placed on dunnage. It has sufficient length to reset. 3) Both fragments cleaned first with D/2 Biological solution and later with water and Photo-Flo. 4) Bottom fragment reset level and plumb in well-compacted sand and peastone. 5) Top and bottom fragment drilled to receive one fiberglass rod. The stone at the break was in poor condition and unable to sustain a second rod. Fragments pinned together with the rod secured by Akepox 2010 stone epoxy and the same epoxy used along the break faces for added support. 6) Sod replaced around stone. 7) Large infill along break using a cementitious infill mortar of 2:1:7.

After Photo:

Inscription:

JAMES E.
son of
Walter J. & Nancy
BRUCE
died Oct. 19, 1840
aged 5 mos. & 15
days.
He died in beauty
like a rose
plucked from its
parent stem.



SELECTED GLOSSARY

This glossary attempts to clarify the meaning of terms commonly used in the field of gravestone conservation.

Acidic Deposition: Laying down of acidic matter, either wet or dry on a marker's surface.

Atmospheric Soiling: Combustion products such as soot, as well as dust.

Adhesive Repair: Rejoin fragments using appropriate adhesives.

Backer Stone: A stone similar in type and size to the original fragmented gravestone onto which fragments are adhered to provide sufficient length and strength for either resetting in sand/peastone or mortaring it into a base.

Base: Usually used with marble headstones. Often made of marble, sandstone or granite into which a slot has been cut and the marker mortared in. Bases also may be multiple with the die (see below) pinned to the top one. We call the base immediately below the die Base #1, the next lower Base #2, etc. Occasionally new concrete slotted bases have to be made for slate and marble gravestones if they are broken off at ground level and an adhesive repair is not feasible. These new bases are set with the top just below grade and covered with earth after the stone is mortared into the slot.

Blister: Air spaces that form slightly below the surface of the stone and eventually cause the top layer to slough off.

Calcareous: Composed of, containing or characteristic of calcium carbonate, calcium or limestone. Marble is a calcareous stone.

Cap: Placing a cementitious mortar cap along a delaminated area of a stone to prevent direct water infiltration.

Cementitious: Repairs and infills made with a cement-based product, not an adhesive or caulk.

Crack: Narrow fracture or break across or through a material, either straight-line or branching in form.

Delamination: Peeling away or separation of layers of stone that were previously a solid mass.

Die: The upper portion of a gravemarker, which stands upon a base or bases, and usually carries the identification or inscription.

Efflorescence: Crusty accumulation of salts or minerals on the surface of stone.

Ferrous: The inclusion of iron in the matrix of a stone which, when it oxidizes (rusts), can cause the stone to lose portions of the surface or even come completely apart in multiple fragments.

Fragment: A portion of a gravestone, which can be large or small.

Granite: A very hard igneous rock, with a somewhat speckled appearance; its surface can range from a rough, naturally occurring finish, to a highly polished one. Colors range from white to black, red, pink, or brown.

Marble: A dense crystalline or granular metamorphosed limestone (Calcareous); it is usually white or grayish with black mottling and streaks, but can be red, green, pink, etc.

Mortar into Base: Reinsertion of marker into existing slotted base or new slotted cast base and securing it using a high lime content cementitious mortar.

Pin: Reinforcing an adhesive repair by drilling the fragments and inserting rods (pins) to strengthen the connection and contain shear forces. Pins may be steel, fiberglass or carbon fiber.

Raised: The gravemarker is sitting much higher in the ground than originally intended.

Repin: Reuse loose rods (pins) that were originally used to stabilize a marker.

Reset: Excavate and carefully set level and plumb (in a compacted sand/peastone mixture) a marker or base, which is tilted or out of the ground.

Slate: A relatively soft metamorphic stone, which has a layered composition.

Sugar Decay: A calcareous stone (most frequently marble) whose surface is roughened due to attack by the acidic environment (see Acidic Deposition). As the process advances, the carving of both the design and the inscription become gradually fainter and eventually illegible.

Tack: Applying adhesive in several locations along a delamination to stabilize the layers before cementitious capping is applied.

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- ND. Property Boundary of Mordecai Ellis and Else Pratt Settlement (sketch), author unknown.
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