WILLIAM REDDICK MANSION

HISTORIC STRUCTURE R E P O R T SUMMARY



Completed November 2013 for the

R E D D I C K M A N S I O N ASSOCIATION

Project Team
Sullivan Preservation
with
The Structural Shop
Architectural Consulting Engineers
Historic Surfaces
Cardno ATC

Introduction

The Reddick Mansion Historic Structure Report was compiled between January and July of 2013 by Sullivan | Preservation and their professional consultants. The Reddick Mansion Association, represented by President Diane Sanders and HSR committee members Donna Nordstrom, Steve Meyer, George Cary and Edmund Thornton commissioned the Sullivan | Preservation team to undertake the study. Diane Sanders provided general oversight for the project and maintained day-to-day contact with the Team.

The Reddick Mansion Historic Structure Report (HSR) was funded by the Jeffris Family Foundation as part of the Jeffris Heartland Fund with matching funds from the Reddick Mansion Association.

The Jeffris Family Foundation Jeffris Heartland Fund supports the development of important historic preservation projects in the states of Iowa, Illinois, Indiana, Michigan, Minnesota, Missouri, Ohio, and Wisconsin. Grants for Historic Structure Reports and other advanced planning studies are provided but must be matched dollar-for-dollar with cash from sources unrelated to the Jeffris Family Foundation.

The Reddick Mansion Association (RMA) was formed in 1974 as a not-for-profit corporation with a mission to preserve and operate the building and grounds. Between 1888 and 1974 the Mansion served as Reddick Library, the public library for Ottawa, Illinois. After the library board constructed new facilities and abandoned the Mansion, a lease was prepared between the Reddick Mansion Association and the City of Ottawa to allow the RMA to administer and operate the Mansion building. A similar agreement is in place today.

The Association's Mission Statement reads:

The Reddick Mansion Association is responsible for the historic preservation and restoration of the Reddick Mansion by adhering to acceptable restoration practices in conformance with adaptive public use.

The Association will foster the use of the Reddick Mansion for the community's cultural, educational, social, recreational experiences and other beneficial purposes.¹

Introduction Intro - 1

¹ Reddick Mansion Website: http://www.reddickmansion.org/mission2.html accessed June, 2013.

Statement of Purpose

A Historic Structure Report (HSR) serves to fully document the history and physical condition of a structure in a particular place and time. The following excerpt from the ASTM Standard on Performance of Building Constructions, specifically Historic Structure Reports, explains:

"The Purpose of a Historic Structure Report is to (1) document and analyze the building's initial construction and subsequent alterations through historical, physical and pictorial evidence; (2) document the current state of the building's architectural materials and overall structural stability; (3) select an appropriate historic preservation treatment (protection, stabilization, preservation, rehabilitation, and restoration or reconstruction); (4) establish priorities for project work items; and (5) make an estimate of project costs. When completed, the report becomes the planning document which is the basis for developing the working drawings and specifications... prior to commencement of project work"²

The Reddick Mansion Historic Structure Report was based on precedents developed by the National Park Service, the Association for Preservation Technology International, and the ASTM Task Group Guide for Historic Structure Reports.

Project Team

The Sullivan | Preservation Team was comprised of: Sullivan | Preservation:

Anne Sullivan, AIA

Served as team leader, reviewed architectural issues, worked with consultants during their site visits as appropriate and served as primary author of the HSR.

Consulting Professionals

The Structural Shop - Christopher Botkin under the supervision of Ken Veach, PE, SE Reviewed structural issues and compiled a report of findings with recommendations.

Architectural Consulting Engineers - Mark Nussbaum, PE

Reviewed mechanical, electrical, plumbing and fire suppression issues and compiled a report of findings with recommendations.

Historic Surfaces - Anthony Kartsonas

Reviewed existing paint analyses, provided additional paint sampling and exposure windows, and compiled a report of findings with recommendations.

Cardno ATC - Andrew Nilson under the supervision of Ash Memon Compiled a hazardous materials report to assess the presence of asbestoscontaining products.

Intro - 2 Introduction

 $^{^2}$ ASTM, E-6 on Performance of Building Constructions; Task Group E06.24.04: Historic Structure Reports, "Mission Statement."

Methodology

The compilation of the Reddick Mansion Historic Structure Report was undertaken in several stages: a review of archival material, interviews, physical documentation, assessment of condition, and compilation of recommendations for repair with budget cost estimates leading to a long-term plan.

Archival Material Review

The Sullivan | Preservation team members became familiar with William Reddick and the history of the Reddick Mansion and Library primarily through historic material provided to us from the RMA. These documents include, but are not limited to:

- A report compiled in 1975 by Dr. Paul Sprague with architect William Dring, entitled "History, Significance, and Feasibility for Adaptive Use of the William Reddick Mansion at Ottawa, Illinois." This document was prepared for the National Trust for Historic Preservation and the Ottawa Silica Company Foundation. Much of this document is reproduced herein as the Historical Analysis portion of the HSR, with supplemental information added by our team.
- "Notes Prepared April 4, 1978 Regarding the Reddick Mansion" compiled by David Mumper.
- "Notes Gleaned from the Minutes of the Reddick Library Board of Directors" prepared by David Mumper, 2009, which was of extraordinary use to our team.
- The original carpenter specifications for construction of the William Reddick Mansion in Ottawa, Illinois, provided to our team in the following forms:
 - o A photocopy of the handwritten original.
 - A transcription by David Mumper, completed in 2010 from a photocopy of the original.
- The Reddick family's original inventory of furniture in each room.

Additional primary research was undertaken by our team members at the Reddick Library local history room. Scans were made of original photographs and newspaper clippings.

Unless otherwise noted:

- Current photographs of the building and site were taken by the Sullivan | Preservation team members in Spring 2013.
- Photographs dating to c. 1970 were copied from photo albums in the Reddick Mansion Association (RMA) collection, unless they are noted as part of the Brookman collection. A number of these were held within records kept by R.A. (Jim) McClevey, whose personal files on the Mansion have recently been added to the RMA collection.
- A number of c. 1970 photographs were offered to the project team by Mr. and Mrs. Ken Brookman. Mr. Brookman is credited where they have been used.
- All of the historic photographs predating Library occupation were found in the Reddick Library local history room files. Copies of most of these photographs are in the RMA collection. Copies of several historic photographs are framed and hanging on the Lower Level of the Reddick Mansion. Their original source is unknown

Introduction Intro - 3

- except for those credited to the Funk Family, which was indicated on one framed collage of photographs.
- Early and Mid-20th century Reddick Library Photos were found in the Reddick Library local history room files. Copies of some, but not all, of these are in the RMA files.
- Photographs taken in the 1970s by Dr. Paul Sprague in preparation for his 1975 assessment report have been credited to him. Scanned copies of his photographs are available in the RMA files (kindly donated by him for this study in 2013).
- A number of newspaper clippings pertaining to the Reddicks, the Mansion and the Library are available in the Reddick Library local history room files.
- A number of post-1975 receipts, memos, letters, short reports and the like are available in the RMA files.

Interviews

The Sullivan | Preservation team met with several persons who have had long-term experience with the building and who have undertaken previous investigations. Among those who met with us or provided information are:

- Ken Brookman, former site manager (c. 1970s-1980s), who walked the site with us and provided us with a great number of photographs dating from the early days of the RMA that document changes made to the Mansion at that time.
- George Cary, architect, former RMA board member and principal of Basalay, Cary &
 Alstadt Architects, Ltd. (BCA). Cary's firm completed a Capital Needs Assessment for
 the Mansion in Sept. 2011 that was the basis for our cost study, as well as Window
 and Exterior Trim Restoration construction documents that were of use to our team.
 BCA also shared with our team building elevations and plans that have been utilized
 in this report.
- Steve Meyer and Larry Swanson, RMA members, who didn't mind getting their hands dirty in reviewing the attic and sub-basement with our team members. They also compiled a thorough "HSR Report Suggestions" list of questions that kept our team on our toes. They provided research regarding properties that preceded the Reddick Mansion on the Mansion site.
- Tom Weiss, a contractor who has worked at the Reddick Mansion in the past and had memory of a number of things that have since been altered.
- Dave Rabideau, an RMA board member and local contractor, who provided the boom lift for the exterior inspection and worked with us to brainstorm various issues regarding exterior conditions.

A full list of resources utilized for compilation of this report are listed in the Bibliography, attached as an Appendix to this report.

Physical Documentation and Assessment of Condition

The Sullivan | Preservation Team undertook site visits both as a team, individually, and in pairs throughout spring 2013. Conditions were noted and digital photographs taken. Unfortunately no original building plans or elevations exist. Our team utilized base plans and elevations provided by either the RMA or BCA Architects for our inspections.

Intro - 4 Introduction

Recommendations for Repair

Based on an analysis of the consultant reports and the findings of the Sullivan | Preservation team, a list of work items was compiled for the Reddick Mansion interior, exterior, MEP and structural systems and immediate site elements as well as for the Caretaker's House exterior. This information was utilized to prepare the cost estimates and phased recommendations. The cost study prepared by BCA Architects for the 2011 Capital Needs Assessment was used as a basis for our cost study, with costs escalated, revised and supplemented as required, based upon our experience with historic properties of this type. The cost study with prioritized/phased recommendations is found herein and is summarized in the Executive Summary.

Introduction Intro - 5

Reddick Mansion Association

Sullivan | Preservation

This page left intentionally blank

Intro - 6 Introduction

Executive Summary and Long Term Plan

Project Identification

The William Reddick Mansion is located at 100 West Lafayette Street in Ottawa, LaSalle County, Illinois, 61350. At the time of Reddick's death in 1885, his estate occupied the entire east half of block 56 immediately north of Washington Park, and was comprised of five structures: the Mansion, the two story brick building west of the Mansion, the Barn, Carriage House, and a wood frame residence. Reddick willed his home (lot 10 & 11) to the library association in 1885. Reddick Library occupied the building until 1978 when it moved to a new structure.

In the middle part of the 20th century the north half of the property was sold. An auto garage occupies the land where the two northernmost buildings once stood. The land around the Reddick Mansion now serves somewhat as a city park, and is tastefully landscaped.

Existing Building Use and Integrity

The Mansion currently serves as an interpreted house museum with non-interpreted meeting spaces available on the Lower Level and Main Level. The exterior of the Mansion has high historic integrity, there having been little replacement of original material in its 157-year history. The interior has varying degrees of historic integrity. The Lower Level has lost most of its historic fabric, with the exception of the windows and associated trim, and some doors and associated trim.

The Main Level has high historic integrity, mainly owing to the extraordinary decorative plaster ceilings and superior original wood graining on some interior features. The East Parlors have been restored to their original configuration and are now interpreted spaces, but details such as paint color, window dressings and light fixtures are not entirely authentic. Two West Parlors remain modified in their configuration, and lack original finishes. The Northwest Room has no historic integrity.

The Bedroom Level has high historic integrity, mainly owing to the extraordinary decorative plaster ceilings. The trim was originally wood grained but has been overpainted. Currently the Southeast Bedroom is restored and interpreted. The Central Hall is also interpreted, but it has been altered from its original configuration with two partitions, breaking it in to three spaces. The other bedrooms remain un-restored. They retain original trim and plaster ceilings, but were modernized in the 1970s for office use. The

¹ This building currently serves the Ottawa Visitor's Center, but served as a Caretaker's House during the Library period, and has been referred to alternatively as a "smokehouse," as an "icehouse" in the Library Minutes, and as a "laundry and tool shed" in an interview with Sylvia Funk. The building's original use is not known, as it underwent a considerable rehabilitation in the 1920s when converted for a Caretaker's residence.

Center West Dressing Room has been seriously modified. A restoration here will mean fabrication of material in order to interpret the space. The Northwest "Wet Room" has no historic integrity and would be very difficult to fabricate for interpretation.

The Servants' Level has high historic integrity and has remained virtually untouched since 1888. As a result the rooms are in very poor condition and in need of plaster repair and painting, proper lighting, and restored floor finishes.

The site retains moderate historic integrity. Only the Mansion and Caretaker's House remain from the original five buildings on the site. The Barn, Carriage House and a wood frame house north of the Mansion were demolished in the mid-20th century. The existing landscape is lush and beautifully maintained, although not in keeping with the period of significance.

Discussion of Significance

The Reddick Mansion is listed as a contributing property within the <u>Washington Park Historic District</u> (National Register of Historic Places, 1973). Washington Square is of particular historic significance because it hosted the first of the famous Lincoln-Douglas Debates, held on August 21, 1858. The debate lasted three hours under the hot August sun, and focused on the issues of popular sovereignty, setting the tone for the other debates to come in 1858.² Because of its historic significance as the location of the first Lincoln-Douglas debate, the integrity of its contributing properties, and significance to local life, the Washington Park Historic District was added to the United States National Register of Historic Places on April 11, 1973. ³

The Reddick Mansion was constructed between 1856 and 1858, from a design completed by Chicago architects Olmsted and Nicholson. The Italianate-style building was and is a formidable presence facing Washington Park. It is significant for its embodiment of the park's period of significance (relating to the 1858 debates), as well as for its association with a prominent Illinois citizen. Reddick served as "one of the earliest and best remembered sheriffs of LaSalle County, and as a state senator for nearly a decade... Were it not for his continued dedication to the Democratic Party, Reddick might well have fulfilled his ambitions to become governor of Illinois and U.S. Senator... Reddick (remained) active in civic affairs, (working) on behalf of free public education... reach(ing) its finale in his last bequest. The gift of his residence to the City of Ottawa for use as a public Library."

² National Register of Historic Places, Washington Park Historic District, Ottawa, LaSalle County, Illinois, Constance Fetzer, ed., 1974.

³ Excerpted from http://en.wikipedia.org/wiki/Washington Park Historic District.; originally quoted from the National Register Historic District Nomination.

⁴ Sprague, Paul PhD and William B. Dring, AIA. "History, Significance, and Feasibility for Adaptive Use of the William Reddick Mansion" prepared for the National Trust for Historic Preservation and the Ottawa Silica Company Foundation, 1975, p. 11.

Periods of Significance and Changes Through Time

The Reddick Mansion has three periods of significance:

• The Reddick Family Period: 1856 - 1887

- This period extends the initial design date of c. 1856 through 1887, when Mansion Library Board took possession of the building.
- Key dates during this period are:
 - 1858: The first Lincoln-Douglas debate was held across the street in Washington Park (historic significance).
 - 1883: Eliza Collins Reddick died July 5, 1883.
 - 1885: William Reddick died March 8, 1885.
 - 1887: Elizabeth Burrier Funk Reddick (adopted daughter) died February 22, 1887.

• The Reddick Library Period: 1888 - 1974

- o This period extends from the date the Library opened through when it relocated to 1010 Canal St., Ottawa, IL.
- Key dates during this period are indicated below. Those in italics are deemed periods of significant change:
 - 1888: Steam heating, toilets and electric lighting were installed.
 - 1906: The Lower Level was renovated for the new janitor.
 - 1908: The Library was re-wired.
 - 1912 13: Significant changes were made to the Library, including:
 - A square arch was put on the west side of the Central Hall at the foot of the stairs.
 - Rooms on the Bedroom Level were converted into a Juvenile Department and LaSalle Co. Historical Museum.
 - A fire escape was installed at the east porch.
 - Stairs were removed from the Lower Level to the Main Level (assumed; Richardson report from 1923 states they were removed prior to 1920).
 - 1917: Second set of significant changes were made, under the direction of architect Jason Richardson.
 - The Lower Level was outfitted for the Juvenile Department.
 - 1922: Murals were executed in the Fourth Floor Camp Fire Girls room.
 - 1923: The third set of significant changes were made, under the direction of architect Jason Richardson.
 - Steel beams were added in various locations.
 - A wall was removed in the Northwest Room, Main Level (assumed).
 - The opening was enlarged between the Southwest Room (Library) and Center West Parlors, Main Level (assumed).
 - The Assembly Room was created on the Bedroom Level by removing partitions in the Southeast and Southwest Bedrooms.

- 1925: The floor was lowered in the Boiler Room and Coal Room and a new boiler/heating plant was installed.
- 1929: Significant repairs were made to the cornice and brackets, and all but one chimney were removed.
- 1934: A new chimney was constructed against the west elevation.
- 1940: A report was prepared by architect Louis Gerding to identify immediate repairs.
- 1946-1947: Fluorescent lights were installed throughout the Library.
- 1951: Architect Earl Gerding was approached again to complete a condition assessment, leading to a master plan of repairs submitted in 1952. He identified the danger of overloading floors with stacks.
- 1953: Major structural repairs were undertaken, including installation of three steel beams supported by pillars to reinforce the west side of the Main Level.
- 1961: The fourth set of significant changes included modifying the main entrance to create an aluminum vestibule, removing the west wall of the Southeast Parlor on the Main Level, misc. repairs.
- 1962 66: The State Fire Marshall required fire doors at the head and base of the main stairs.
- 1963: A new floor was installed over the coal bin in the northwest corner of the Lower Level (now the Kitchen).
- 1967: A king-post truss is thought to have been installed in the Servants' Level, off of which book shelving was hung in the Southwest Room, Bedroom Level.
- 1974-1975: The Reddick Library moved from the Reddick Mansion.

• The Reddick Mansion Association Period: 1975 - Present

- This period extends from when the fledgling RMA entered into a short-term agreement with the City of Ottawa to operate the building. Ultimately, a longer-term agreement was established in 1978.
- Kev dates during this period are:
 - 1976 1978: Major Restoration Campaign including:
 - 1976: The removed west wall of the Southeast Parlor on the Main Level was reconstructed, and the Southeast Parlor was restored.
 - 1977: The Kitchen in the Northwest Room, Lower Level, was remodeled.
 - 1978: The three East Parlors on the Main Level were painted, grained, and restored.
 - 1978: The South Elevation porch balustrades were reconstructed and installed.
 - 1978: The vestibule doors were recreated and the pier mirror was moved to the vestibule from the Southeast Parlor.
 - 1978: The not-for-profit Reddick Mansion Association was formed, and a final draft agreement was made with the City of Ottawa.

- 1981: Storm windows were fabricated and installed on the interior face of the window sash.
- 1983: A heat and smoke alarm system was installed.
- 1991-92: The perimeter retaining wall and cast iron fence were reconstructed.
- 1998: The Lower Level was remodeled for Ottawa Visitor's Bureau use.
- 2004: The Main Level windows were repaired and painted.

Restoration Target Date and Interpretation

We recommend that the Restoration Target Date be set within what we consider the primary period of significance: **The Reddick Family Period: 1856 – 1887.**

The RMA has previously identified 1875 as the restoration target date. The Sullivan | Preservation Team feels this date should be pushed forward to the early 1880s, when both Mr. and Mrs. Reddick were living and still active within the community. Historic photographs exist of the East Parlors from their funerals in 1883 and 1885, which should continue to be used for identifying appropriate décor and furniture.

Main Level

On the Main Level, the Central Hall, the Southeast and Center East Parlors, and the Dining Room are interpreted as historic spaces. They should remain museum spaces, but we recommend that the walls and ceilings be painted in the original paint colors identified in our analysis in order to better understand the spaces' original design intent.

The two parlors on the west half of the Main Level are currently used as rental space to the public. It is appropriate that these spaces continue to be used as public gathering space, and that they be "moderately interpreted." The walls and ceiling should be painted in the original colors identified in our analysis, but because the original grained trim was stripped at some point, it may remain a complimentary solid color. The original floors are covered with a new hardwood floor. It should be stained darker to be more in keeping with the original wood in the house.

The service areas in the northwest corner of the Mansion on every floor level have been so altered over time that they retain no historic integrity. We recommend that these remain neutral service spaces, and that they ultimately house an elevator shaft that extends from the Lower Level to the Servants' Level. The elevator would provide access for the disabled and make life generally more pleasant for all users. An accessible unisex restroom can be provided on one or more levels in this area as well.

Bedroom Level

On the Bedroom Level, the Central Hall and Southeast Bedroom are interpreted as historic spaces. They should remain museum spaces, but we recommend that the Central Hall's partitions be removed, since they confuse the interpretation of the space, and that the walls

and ceilings in both rooms be painted in the original paint colors identified in our analysis. The RMA will have to negotiate with the local fire department and code officials regarding removal of the fire-rated stair enclosure, positioning of exiting signage, and the fact that there is only one means of exit from this level.

The Northeast Bedroom, Center East Bedroom, Southwest Bedroom and Center West Dressing Room are now vacant and available for interpretation. The Northeast Bedroom can be restored to represent Elizabeth Funk Reddick's bedroom, and be interpreted to depict the daily life of a young woman in the 19th century. The Southwest Bedroom and adjacent Dressing Room should be restored for interpretation as Mrs. Eliza Reddick's bedroom suite. All the aforementioned rooms should be painted using the original paint colors identified in our analysis, and appropriate furniture obtained.

Due to the fact that the Reddick Library occupied the structure longest, coupled with the significance of William Reddick's gesture in leaving his private home to the City of Ottawa for use as a public library, we feel that a space within the Mansion should be utilized for Library interpretation. The Center East Bedroom on the Bedroom Level would be most appropriately interpreted to represent the Reddick Library era, as it still contains several of the Reddick Library's original bookshelves. A display describing the **Reddick Library Period: 1888 – 1974** should be prepared for this space.

Servant's Level

The rooms on the Servant's Level should be refurbished, their plaster repaired or replaced and painted, and those rooms used for storage and possibly RMA (or other) offices. Without a second means of access, (and due to the steep existing stairs) it would not be possible to have public visitation on this level. Once the elevator is installed, these spaces may become available for museum use or office rental.

Attic

The attic should be insulated between the roof rafters and prepared for installation of mechanical equipment. The floor joists and roof rafters may have to be structurally supplemented to support the integration of mechanical equipment and associated insulation.

Lower Level

The rooms at the Lower Level have lost most of their historic integrity through modernizations. It has become popular in recent years to interpret the servants' lifestyle in historic house museums of this type. It would be appropriate to make modifications to the Southeast Room in order to interpret it as a Servants' Dining or Sitting Room. It seems probable that the original Kitchen was located in the Northeast Room. This space may be renovated with a new kitchen that is more serviceable and in keeping, design-wise, with a historic home of this period, and will serve "double-duty" as a catering kitchen for the Main Level event space.

Space Utilization and Museum Operation

The Reddick Mansion Association is entering an important new era regarding use of the Mansion. For over twenty years most of the rooms on the Bedroom Level were being utilized as offices, rented to outside non-profit organizations, which limited the ability to interpret these spaces. This year the last of these tenants left the building, allowing RMA the freedom to use the spaces for their own purposes. The Association's primary wish is to fully interpret the Main and Bedroom Levels as a house museum, while receiving additional income from rental spaces.

Today, most museums like the Reddick Mansion have found it difficult to operate solely as interpreted house museums. The RMA has survived for many years on office rental income together with entry fees, and a number of generous donations of both money and volunteer time. The organization rightly sees a future in offering event space, and has worked toward making the west side of the Main Floor as desirable as possible for events rental. They have also upgraded the site surrounding the Mansion, making the grounds available for events.

House Museums need to be an integral part of the community, serving many audiences in different ways. In order to survive, the RMA must expand their programming, and work toward filling their underutilized spaces with activity.

We have recommended that the vacant bedrooms on the Bedroom Level be returned to museum interpretation, but this may take some time. In the meantime, RMA should consider upgrading the rooms to be "moderately interpreted" by removing and replacing the industrial carpets, and painting the rooms in the colors identified in our analysis, making the spaces available for rental income again.

We see a great opportunity for partnerships within the Illinois River/I&M Canal National Heritage Corridor. House museums in this region should form a coalition and focus their programming and advertising dollars on making this area a destination, with the Reddick Mansion and Hegeler Carus Mansion serving as highlights on the tour.

The next step as the Reddick Mansion Association moves forward is to find a part- or full-time executive director who has the skills to raise awareness, money and interest in this important property. The volunteer efforts of the RMA have been extraordinary over its thirty-five year history, but in order to move to the next level they must invest in professionalizing the organization.

Summary of Findings from the Physical Analysis

Mansion Exterior

The Reddick Mansion is a massive stone and brick masonry structure that has survived well over the past 150+ years. The exterior is in overall fair to good condition. Areas of the building are in need of re-pointing, but overall, the mortar joints are stable. The stone has been inappropriately patched in the past, but it appears stable except at the base of the building where areas of the stone are cracked and spalling. Lowering the grade approximately six inches and grading the soil away from the building prior to stone patching should be effective. The sheet metal cornice is also in surprisingly good condition, although in need of painting. The only exterior elements that are in poor condition are the original wood windows, which are in immediate need of stabilization and in some cases rebuilding.

Mansion Interior

The Mansion interior retains many of its original details, which is remarkable, considering it served as a public library for nearly 100 years. The rooms that are furnished for interpretation are authentic, although the paint colors on the walls and ceiling should be modified to better match the original design intent. No seriously deteriorated areas were noted; the roof is relatively new and no interior water damage was noted. Several Bedroom Level rooms are in un-restored condition, having served as offices for many years. The Servants' Level is in poor condition—the plaster walls and ceilings retain their original paint (!) and exhibit considerable cracking and failure. In order to be a usable space, that level will need complete refurbishment. It now serves, however, as an interesting look back into time. The Lower Level has been modernized to serve RMA office and gathering space requirements. There is enough original material in the Southeast Room to interpret that space as a Servant's Dining Hall or Sitting Room.

Mansion Structure

The infrastructure within the Mansion has been modified over time, as recorded by architect Jason Richardson in the 1920s, and other accounts after that time. Our investigation found that the structure is sound. However, if/when mechanical equipment is integrated into the Attic space, the Attic floor joists may have to be reinforced. Similarly, the roof rafters may need reinforcement to ensure that they can support the snow load once the attic space is fully insulated.

Mansion MEP

The Mansion is currently heated with radiant (radiator) heat, and is not air conditioned except by window units. We recommend that the radiators be retained, and that the entire structure be outfitted for ducted air conditioning with supplemental heat/dehumidification. A ground-source heat pump (GSHP) system is most appropriate, and capable of simultaneous control of temperature and humidity (assumed at a maximum 60%), through the use of hot gas reheat. New humidifiers would be integrated for winter humidification to recommended levels (35%). Our energy model predicts that the GSHP system will operate for about the same cost as the current system (\$9,000/year), despite

the fact that the current system has almost no cooling and does not control for humidity at all. When compared to a standard air conditioning system with reheat, we see an annual savings using the GSHP system of about \$2,500.00. This system has an initial installation up-charge from a standard split type A/C of just \$20,000, indicating a roughly 10-year payback. An architect should be included on the HVAC integration team in order to properly design and detail integration of the system into the building. The system can be effectively integrated within the historic structure without disturbing too much historic fabric, as the house contains sufficient closets to accommodate the new ducted system.

Caretaker's House Exterior

The Caretaker's House is constructed of brick with limestone trim. The brick masonry is in fair to poor condition, and in general need of re-pointing. The brick and stone have some seriously deteriorated areas that are in need of patching or possible replacement. The wood cornice is suffering from spot deterioration. Repairs should be made to the cornice as soon as possible to prevent bird and animal infestation. The windows and doors are in overall fair condition with a few exceptions; in one case a window is in danger of collapse and should be addressed immediately.

Site

The site on which the Mansion sits has a lovely park setting and is well maintained by volunteers. The pavement is in fair condition and is spalling in some locations. The RMA has been upgrading the site, most notably this summer with the construction of a portico north of the Mansion. Site features like this will attract visitors and persons wishing to hold an event on the site. The site as it is does not reflect the Reddick Family Period, when it was quite austere, based on historic photographs. We think it is appropriate that the green space around the Reddick Mansion remain landscaped and vibrant in order to attract visitors.

Summary

The Reddick Mansion was well built initially and has fared generally well over time. An enormous amount of energy and a fair amount of money was fed into restoring the public spaces of the building between the inception of the RMA in 1978 and about 1990. Since then, repairs have been undertaken on an as-needed and piecemeal basis. The lack of records after 1990 (as evidenced in the Timeline) indicate that perhaps the working relationship between the RMA and the City of Ottawa should be strengthened and better records kept of repairs and changes made to the Mansion.

The co-operative relationship between the RMA and the City of Ottawa must be strengthened in order to successfully restore and maintain the Mansion. It is hoped that this Historic Structure Report and the Cost Study with recommended phased restoration work will open a dialogue, and the two entities will work together to create a Master Plan for the next twenty years. Both City *and* RMA funds must be faithfully dedicated on a *yearly basis* to the restoration and maintenance of this important piece of Illinois history.

Long Term Plan

The Reddick Mansion Historic Structure Report provides a detailed condition assessment report with recommendations for the following structures:

- Reddick Mansion Interior, Structural, MEP, and Mansion Exterior Conditions
- Caretaker's House Exterior Condition
- Reddick Mansion Site Issues

Observations of existing condition and recommendations for repair/restoration are discussed within the chapters pertaining to those areas. The recommendations for each building area were entered into the Final Cost Study chart. For each recommendation, an estimate of probable cost was provided, in 2013 dollars. Subtotals were generated, onto which several contingencies were added: 9% for General Conditions, Bond and Insurance, 5% Contractors Fee, 5% Design Contingency and an 8% Construction Contingency. For planning purposes, an estimate of Professional Design Fees was provided within the estimate for each scope of proposed work.

The Final Cost Study was organized to provide two planning options for the Reddick Mansion Association:

- 1. A large-scale restoration project, in which the work will be undertaken over a oneto two-year period following one year of planning and construction document preparation.
- 2. A phased restoration approach, whereby money is raised over the next five years in order to start restoration in the sixth year. Work would spread out over a twenty-year period:
 - a. Priority 1: 6-10 years
 - b. Priority 2: 11-15 years
 - c. Priority 3: 15-20 years
- 3. A third category was provided, entitled Maintenance & Repair, into which critical items or scopes of work that can be categorized as maintenance were placed.

Summary of Costs

A detailed chart is provided on the last page of the Cost Study, and is summarized here:

Option 1: Large-Scale Restoration

Mansion total estimated Construction Cost:

Construction Cost (2015-2016):	\$2,924,935
Design Fees (2014):	\$287,087
Maintenance & Repair (2014):	\$57,982

Caretaker's House Exterior total estimated Construction Cost:

Construction Cost (2015-2016):	\$343,934
Design Fee (2014):	\$31,149
Maintenance & Renair (2014):	\$43.855

Reddick Mansion Historic Structure Report

November 2013

Site total estimated Construction Cost:

Construction Cost (2015-2016):	\$78,819
Design Fee (2014):	\$6,100
Maintenance & Repair (2014):	\$23,873

Option 1 Total:

Construction Cost (2015-2016):	\$3,348,688*
Design Fee (2014):	\$324,336*
Maintenance & Repair (2014):	\$125,710*

*Note: These are estimates for planning purposes only. Construction Documents must be prepared and cost estimates obtained from them in order to identify actual planned construction cost. In the case of Maintenance & Repair, bids must be sought from qualified contractors for the work proposed. Note also that scopes of work and professional design fees were estimated on an individual line item basis; there would be a savings if a large scope of work were undertaken at one time, and one set of construction documents prepared for all the work.

Option 2: Phased Restoration over time

m 2.1 maseu Kestoration over time		
Priority 1 (2018-2023):		
Mansion:		\$1,637,416
Caretaker's House:		\$117,418
Site:		<u>\$91,759</u>
	Total**:	\$1,846,593
Priority 2 (2024-2029):		
Mansion:		\$675,538
Caretaker's House:		\$96,905
Site:		<u>\$7,787</u>
	Total**:	\$780,230
Priority 3 (2030-2035)		
Mansion:		\$1,136,409
Caretaker's House:		\$152,784
Site:		\$5,840
	Total**:	\$1,295,034
	10001	4 x , = , 0 , 0 0 1

^{**}Note: These are estimates for planning purposes only, and were generated for the year 2013. With each passing year, the estimate must be raised by between 4% and 7%, cumulatively.

Recommended Procedure for Moving Forward

The estimates provided are for planning purposes only. They were generated based upon verbal description of work and broad estimates of quantity. There may be economy in combining scopes of work in to one large project, or in to several smaller projects that

utilize contractors within similar trades (i.e. all the masonry work at one time vs. over several years, etc.).

Option 1: Large-Scale Restoration

In order to identify actual scopes of work with associated costs for a full restoration, Construction Documents must be prepared by an Architecture/Engineering (A/E) team first. There are several phases of the Construction Document process as relating to building restoration:

- 1. **Pre Design** The A/E undertakes an investigation to understand the building's complexities and formulates an idea of what needs to be undertaken. The HSR serves as a Pre Design document.
- 2. **Schematic Design** The A/E identifies an appropriate scope of work and finalizes recommendations for repair. The HSR serves as a Schematic Design document.
- 3. **Design Development** The A/E translates the verbal recommendations in to drawings, notes and descriptions that provide enough critical information so that a cost analysis can be undertaken.
- 4. **Construction Documents and Bidding Document Preparation** With Owner goahead, the construction documents, comprised of drawings and project manual/specifications, are prepared in order to bid to several pre-qualified contractors.
- 5. **Bidding & Negotiation** The project is bid and the Owner chooses from among several contractors who have bid on the same exact scope of work. With prequalified bidders, the lowest bid typically receives the contract. If prequalification is not possible, then the project should be awarded to the lowest *qualified* bidder (sometimes not the lowest bid).
- 6. **Construction and Construction Administration** While the general contractor and his sub-contractors complete the work, it is advisable to continue the involvement of your architect and engineer/s during Construction Administration in order to verify that the work being undertaken is being completed as described in the construction documents.

The first step we recommend is that the RMA contract with an A/E team to generate Design Development documents for the scope of work identified in this project. The documents should be prepared in a way that they could be broken apart and scopes of work undertaken separately if necessary. Upon completion of Design Development documents, a line item cost estimate should be prepared by a construction cost estimator familiar with building restoration practices. This should give the RMA the best idea of projected construction costs related to each scope of work.

When RMA is ready to move forward with a large-scale restoration, the project should be bid to pre-qualified general contractors who have secured sub-contracts with trades who have exhibited experience working on historic and National Register properties.

Option 2: Phased Restoration over time - Mansion

If the RMA decides to undertake the restoration in a phased manner over several years, work must be prioritized based upon several criteria, the first of which is safety; the second of which is utilization of funding to best serve the use of the building for the future.

Mansion

- 1. Priority 1: Exterior
 - a. Original wood window restoration (can be undertaken over several years by floor or by elevation)
 - b. Spot repointing of Mansion and removal of damaged stone
 - c. Paint and repairs to cornice
 - d. Repairs and repainting of East Porch
 - e. Mechanical upgrade to include Heating and A/C with associated structural and integration of attic insulation
- 2. Priority 1: Interior
 - a. Central Hall and Wainscot restoration
 - b. Move Kitchen to northeast corner and redesign so it can be used as a catering kitchen for events

Caretaker's House

- 1. Priority 1:
 - a. Repairs to soffit and fascia
 - b. Repairs / restoration of windows
 - c. Repairs to stone sills
 - d. Paint / seal roof

Site

- 1. Priority 1:
 - a. Repair/rebuild brick wall
 - b. Regrade soil around mansion perimeter
 - c. Clean/paint iron fence and make repairs to stone wall

END EXECUTIVE SUMMARY

This page left intentionally blank

Cost Study

_						_	
v			ıck	IVI o	ncian	Acc	ociation
11	Cu	u	ıcn	1410	шэгон		utiativii

Sullivan | Preservation

This page left intentionally blank

REDDICK MANSION HSR SULLIVAN | PRESERVATION

PRIORITY KEY

Maintenance & Repair: Immediate need; ongoing maintenance
Alternate 1: Large Scale Restoration
Priority 1: First year: Design fees for Construction Documents
Priority 2: Following year: Large scale restoration
Alternate 2: Phased Restoration
Priority 2: 6-10 years - short term (assume 5 year fundraising effort)
Priority 2: 11-15 years - mid-term
Priority 3: 15-20 years - long term

						MAINTENANCE	ALTERN LARGE SCALE	ALTERNATE 1: LARGE SCALE RESTORATION	PHA	ALTERNATE 2: PHASED RESTORATION	NO
	ITEM	QUANTITY	UNIT	UNIT COST	COST SUB- TOTAL	Maintenance & Repair	PHASE 1: Plan/Design	PHASE 2: 1-5 yrs Restoration	PRIORITY 1: 6-10 yrs	1: PRIORITY 2: 11-15 yrs	PRIORITY 3: 15-20 yrs
SITE											
Parking Lot NW corner of site	V corner of site										
	Parking Lot Asphalt	720 sf	sf	7	5,040	5,040					
	Striping	154	Į	1	154	154					
	Accessible Parking Signage	1	ea	200	200	200					
	Concrete Pad	180 sf	sf	25	4,500	4,500		3	4,500	4,500	4,500
						10,194			4,500	4,500	4,500
Various Site Improvements	provements										
	Stain/Seal Sidewalk	2500 sf	sf	2	5,000	2,000					
	Site Lighting	4	4 ea	800	3,200	3,200					
	Site Sign	0	0	0	1,500					1,500	
	Landscaping	0	0	0	0						
						8,200			0	1,500	0
Iron Fence and Retaning Wall	Retaning Wall										
	Reset Stones in Stone Wall	5	5 ea	200	2,500			2,500	2,500		
	Clean/Paint Fence	325	f	20	16,250			16,250	16,250		
								18,750	18,750	0	0
Brick Wall, west side of site	it side of site										
	Reset Stone Cap	10	10 ea	200	5,000			2,000	2,000		
	Tuckpoint/replace bricks	1850 sf	sf	15	27,750			27,750	27,750		
	Design Fees for restoration specs (12%)				3,500		3,500		3,500		
							3,500	32,750	36,250	0	0
Re-grade soil a	Re-grade soil around Mansion perimeter										
	Re-grade to drain away from fndtn				7,000			7,000	7,000		
	Landscape related to regrading				3,000			3,000	3,000		
	Design Fees				1,200		1,200		1,200		
						0	1,200	10,000	11,200	0	0

SUBTOTAL: SITE

NOIT	PRIORITY 3: 15-20 yrs			47,200	15,000						62,200												(91 000	45.000	50,000	20,000	206,000																9,450	8,600	1,920	1 500
\SED RESTORA :	1: PRIORITY 2: PR 11-15 yrs						8,500	15,000	10,000	10,500	44,000											5,000	3,000	15,000	0	7,500	25,500											150.000					150,000		4,000	4.000					
PH/	PRIORITY 1: 6-10 yrs													5,500	2,000	500	5,000	2,500	3,500	19,000														8,000	4,000						7000	13,000	25,000								
RESTORATION	PHASE 2: 1-5 yrs Restoration						2							2,500	2,000	200	5,000	2,500		15,500		5,000	3,000 2	15,000 2			23,000	91 000	45.000	50,000		186,000		8,000	4,000			150.000					162,000	Ī	2						
LARGE SCALE	PHASE 1: PHASE 2: Plan/Design 1-5 yrs Restoration																		3,500	3,500					0	2,500	2,500				20,000	20,000									200	13,000	13,000								
	Maintenance & Repair					225					225		100							100																															
	COST SUB- TOTAL			47,200		225	8,500	15,000	10,000	000,01			100	5,500	2,000	500	5,000	2,500	3,500			5,000	3,000	15,000	0	2,500		84 000	45,000	50,000	20,000			8,000		C	5	150.000			000	000,8T			4,000				80	1,920	4 500
	UNIT COST			200	100	Ş											10							100				12	7					8	100										25			9	4	15	
	\ TIND \			236 lf	150 lf	75 ea	nuit										500 ea							150 lf				7000 sf						1000 sf				allow							160 lf			1575 sf		128 sf	
	QUANTITY																																											_				-	2		
	ITEM	MANSION EXTERIOR	Foundation Repairs	Dampproof exerior face of Foundation	Perimeter fndtn drain and Storm Line	Extend downspout leaders away from fndtn	Repoint exposed interior foundation wall	Install perimeter beam tor proper joist bearing	Architectural face for enecephonet observed.	Arginectural fees for specs/corist observ (12%)		Short Term	Remove spalling stone over S. entry door	Spot repointing est 10% of exterior, misc.	Repoint joints in limestone string courses	Mortar Analysis	Replace spalled or missing bricks	Replace damaged stone, S. end of E. porch	Architectural fees for specs/const observ (est)		Mid-Term	Remove parging and repoint Boiler Room brick	Apply water repellent coat to Boiler Rm brick	Readhere large spalled stone at base and	patch-repair as required	Architectural fees for specs/const observ (12%)	Torra Torra	Report antire huilding w/ appropriate mortar	Remove all limestone patches and repair	Tool back stone at base and install stone veneer	Architectural fees for specs/const observ (est)		Entry Steps South Elevation	Repoint exterior and interior face of knee walls	Replace Front Steps Handrails	Mid Term	monitor the condition of the steps joints	Step replacement	Disassemble top of knee wall	replace steps with new cast stone steps	reassemble knee wall and flash at copings	Architectural fees for specs/const observ (est)		Mid Torm	Metal Coping		Long Term	Replace Membrane Roof	Replace Asphalt Roof Shingles	Replace wood Decking as required	Architectural food for engage to account (act)

QUANTITY
90 IL
105 1
- C
-
4
7
0 7
4
7
_
က
7
0
0 ea
-
· (c)
7
Ω
∞ α
7
C
0

							ALTERNATE 1:	IATE 1:		ALTERNATE 2:	
_		VIII. 1	-	1000	TO TOO	MAINIENANCE	LARGE SCALE	RESTORATION		SED RESIONAL	Fig
	WH.	QUANIIIY	<u> </u>	LSOS IINO	COST SUB-	Maintenance & Repair	PHASE 1: Plan/Design	PHASE 2: 1-5 yrs	PRIORITY 1: 6-10 yrs	PRIORITY 2: 11-15 yrs	PRIORITY 3: 15-20 yrs
								Restoration			
Porches and Wood Balconies	onies										
Tac Doro	Eact Boach (3 haloonine)										
Short Term	erm (z. Barcollies)										
repair	repair small openings to prevent vermin				3,500	3,500			3,500		
Strip	prime and paint wood				22.000			22.000	22,000		
Floor	Floor restructure and repairs to rails				15,000			15,000	15,000		
Railing	Railing repairs				6,000			000'9	000'9		
Replac	Replace EPDM Roofing	26	ea	7500	15.000			15,000	15,000		
Archite	Architectural fees for specs/const observ (est)				4,500		4,500		4,500		
						3 500	4 500	58 000	000 99		
						00000	4,500	000,000	000,000		
South Ba	South Balconies (3 tot)										
Short Term	arm				C						
Mainte	Maintenance to bottom rail				500	200			500		
Mid-Tern					000						
Repair	Repair / replace deteriorated railing elements				3.000			3.000		3.000	
Strip p	Strip prime and paint				2,000			2,000		2,000	
Long Term	ım										
Replac	Replace EPDM roofing	36	ea	0200	19,500			19,500			19,500
Archite	Architectural fees for specs/const observ (est)				1,500		1,500				1,500
						200	1.500	24.500	200	5.000	21.000
			TOTALIS	SIBTOTAL - MANSION EXTEDIOD	LEYTEDIOD	AO 675	80 500	748 950	131 550	996	324 920
						Γ	ABILIA	ATE 4.		ALTERNATE 2.	
						MAINTENANCE	LARGE SCALE	RESTORATION		PHASED RESTORATION	ION
	ITEM	QUANTITY	LIND	UNIT COST	COST SUB-	Maintenance &	PHASE 1: PHASE 2:	PHASE 2:	PRIORITY	PRIORITY 2:	
					IOIAL	кераіг	Plan/Design	1-5 yrs Restoration	6-10 yrs	11-15 yrs	15-20 yrs
ANSION MECHANI	MANSION MECHANICAL / ELECTRICAL / PLUMBING										
Mechanical											
From Ca	From Capital Needs Assessment	•									
Boller		5	ea								
Solf Cott	Radiators Soft Contained A/O Unit	0 4	0	15000	000						
Window A/O Linita	MACHINITE	9 0	ממ	13000	000'61						
Pesidotia	Willdow A/C Online Besidatial A/C Condenser	0 7	ם מ	2000	2,000						
Water Heater	aafer		ea ea	2500	2,500						
Hot and C	Hot and Cold Water Distribution	0	0	0	0						
Alternate	e 4 (Recommended) Ground Source Heat Pump	8	allow		230,000			230,000	230,000		
Mecha	Mechanical Engineering professional fees				20,000		20,000		20,000		
Archite	Architectural fees for integration (est)				12,000		12,000		12,000		
Associate	ed Construction and Plaster Repair		allow		35,000			35,000	35,000		
Alternate	Alternate 2: Standard split type AC with air cooled										
vent high	vent high efficiency hot water boilers		allow		210,000						
Mecha	Mechanical Engineering professional fees				20,000						
Archite	Architectural fees for integration (est)				12,000						
100	(A) (1-1) bede jeened)										
Insulation	Insulation (associated W/HVAC)	4500 cf		3	15 750			15 750			
DD2	מווון אמסטן סמוויכן נס מוויכן נס	9					000 00	0000	21,00		
							32,000	700,750			

						MAINTENANCE	ALTER! LARGE SCALE	ALTERNATE 1: LARGE SCALE RESTORATION		: 2: RAT	
	ITEM	QUANTITY	UNIT	UNIT COST	COST SUB- TOTAL	Maintenance & Repair	PHASE 1: Plan/Design	PHASE 2: 1-5 yrs Restoration	PRIORITY 1: 6-10 yrs	1: PRIORITY 2: 11-15 yrs	PRIORITY 3: 15-20 yrs
Electric											
	Dielectic Connections	25	25 ea	150	3,750	3,750					
	Electrical Wiring	0	0	0	0						
	Upgrade Electrical Service		ea	2200	5,500			2,500	2,500		
	Remove Conduit, Rewire 4th Floor	2900 sf	Sf	12	34,800			34,800		34,800	
	GFCI Outlets	4	4 ea		250	250			250		
	Professinal Fees (est)				3,500		3,500			3,500	
						4,000	3,500	40,300	5,750	38,300	
Plumbing											
0	Sanitary Waste and Vent System		alllow		7,500			2,500	2,500	2,500	2,500
								7,500	2,500		2,500
Fire Protection	Jui lui										
	Fire Alarm Panel	1	ea	0009	6,000			6,000	6,000		
	Smoke Detectors	29	29 ea	100	2,900			2,900	2,900		
								8,900	8,900		
	SUBTOTAL: MANSION MECHANICAL / ELECTRICAL / PLUMBING	MANSION ME	CHANICAL / I	ELECTRICAL	/ PLUMBING	4,000	35,500	337,450	329,900	40,800	2,500
						MAINTENANCE	ALTERI LARGE SCALE	ALTERNATE 1: LARGE SCALE RESTORATION	PHA	ALTERNATE 2: PHASED RESTORATION	NO
	ITEM	QUANTITY	UNIT	UNIT COST	COST SUB- TOTAL	Maintenance & Repair	PHASE 1: Plan/Design	PHASE 2: 1-5 yrs Restoration	PRIORITY 1: 6-10 yrs	1: PRIORITY 2: 11-15 yrs	PRIORITY 3: 15-20 yrs
MANSIONS	MANSION STRUCTURAL										
Structural											
	Structural Modifications for HVAC										
	to attic joists for HVAC eqip dead load		allow		25,000			25,000	25,000		
	Structural Engineering Fees 12%				3,000		3,000		3,000		
	Structural Modifications for insulation										
	to rafters for insulated roof snow dead load		allow		35,000			35,000	35,000		
	Structural Engineering Fees 12%				4,200		4,200		4,200		
	SUBTOTAL: MA	TAL: MANSI	ON STRUCTU	ANSION STRUCTURAL (RELATED TO HVAC)	ED TO HVAC)		7,200	000'09	67,200		

1 1 1 1 1 1 1 1 1 1	
1,520 1,280 3,500 3,100 3,	380 sf 996 sf 1 allow 175 sf 1 allow 1
1,520 1,520 1,520 1,520 3,500	380 sf 315 sf 995 sf 1 allow 1 allow
1,000 1,00	380 sf 315 sf 995 sf 1 allow 1 allow
1,000 1,00	315 sf 995 sf 1 allow 38 lf 175 sf 1 allow
15000 150 000 250000 25000 25000 25000 25000 25000 25000 25000 25000 25000 25000 25000 2	995 sf 1 allo 1 allo 1 allo
15000 3500	38 1 all
150000 150 0	175 st
150000 150,0	175 8
150000 150 0	
150000 150,0	
150,000 150,	
150000	
Court Cour	
16,000	
Cover Level First FI Subtotal 10,000	
Lower Level First F1, Subtoda	TO.
65 4.875 4.	
65 4.875 4.875 4.875 100 22.500 22.500 22.500 500 1.000 1.000 1.000 65 32.500 4.200 4.200 4.5 3.375 4.200 4.200 60 24,000 25,000 26,000 60 24,000 24,000 24,000 60 24,000 24,000 24,000 7 3.375 3.376 3.376 8 2,500 24,000 24,000 8 2,500 24,000 24,000 8 3,000 3,000 8 3,000 3,150 8 3,150 3,150 8 3,150 3,150 8 4,163 4,163 8 4,163 4,163 8 4,163 4,163 8 4,163 4,163 8 4,163 4,163 8 4,163 4,163	
100 9,000 1,000	1
100 22500 1000	d) st
500 1,000 1,000 1,000 65 32,500 3,2500 3,2500 4,5 3,375 4,200 4,200 60 24,000 24,000 24,000 60 24,000 24,000 3,080 7 3,080 3,080 3,080 7 3,080 3,080 3,080 7 2,500 3,080 3,080 7 2,500 2,500 2,520 8 1,950 1,150 2,520 7 2,500 2,520 2,520 8 2,4375 3,150 2,520 8 2,4375 3,150 2,520 4,163 4,163 4,163 4,163 1,400 4,163 4,163 4,163 1,400 4,163 4,163 4,163	225 sf
500 1,000 1,000 1,000 65 32,500 32,500 32,500 4,5 4,200 4,200 4,200 60 24,000 25,000 25,000 60 24,000 24,000 24,000 7 3,080 3,080 3,080 7 3,080 3,080 3,080 7 3,080 3,080 3,080 7 3,080 3,080 3,080 8 1,450 3,150 3,150 9 2,520 2,520 2,520 1,140 3,150 3,150 3,150 1,140 4,163 4,163 4,163 1,140 4,163 4,163 4,163 1,140 4,165 4,165 4,165	
665 24,500 32,500 4,100 67 4,200 4,200 4,200 60 24,000 24,000 24,000 60 24,000 24,000 25,000 60 24,000 25,000 25,000 7 3,080 3,080 3,080 86 19,500 19,500 2,520 86 24,375 2,520 2,520 87 3,150 3,150 3,150 86 24,375 3,150 3,150 87 3,150 3,150 3,150 86 24,375 3,150 3,150 87 3,150 3,150 3,150 86 24,375 3,150 3,150 87 4,163 4,163 4,163 87 4,163 4,163 4,163 88 4,163 4,163 4,163 89 4,163 4,163 4,163 89 4,163 4,163	c
7 4,200 4,200 4,200 4,5 2,375 3,375 3,375 60 24,000 24,000 25,000 60 24,000 24,000 26,000 7 3,080 3,080 3,080 7 2,520 3,080 3,080 7 2,520 2,520 2,520 7 3,150 3,150 3,150 8 2,4375 3,150 3,150 7 3,160 3,150 3,150 8 2,4163 4,163 4,163 9 4,163 4,163 4,163 1,400 4,163 4,163 4,163 1,400 4,163 4,163 4,163	200
4.6 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,376 3,080 3	009
60 25,000 25,000 25,000 50 20,000 3,080 3,080 4.5 3,938 3,938 3,080 4.5 19,500 19,500 3,080 4.5 3,150 2,520 2,520 4.5 3,150 3,150 3,150 4.5 4,163 4,163 4,163 4.5 4,163 4,163 4,163 4.5 4,000 4,000 4,000	750 sf
24,000 24,000 24,000 3,080 3,080 3,080 3,080 3,938 3,938 19,500 19,500 2,520 2,520 2,520 2,520 2,4,00 3,150 3,150 3,150 3,150 3,150 4,163 4,163 4,163 4,163 4,163 4,163 4,050 4,050 4,050	,00
20,000 3,080 3,080 3,080 3,080 3,080 19,500 19,500 2,520 2,520 2,520 2,520 3,150 3,150 3,150 4,163 4,163 4,163 1,400 1,400 4,050 4,050 4,050 4,050	400
20,000 20,000 3,086 3,086 3,086 3,086 3,086 3,086 3,086 3,086 3,086 3,086 3,086 3,086 3,988 3,388 2,520 2,520 3,150 3,150 3,150 3,150 4,163 4,163 4,163 4,163 4,163 4,163 4,000 4,050	
3,080 3,080 3,080 3,080 3,080 3,080 19,500 19,500 2,520 2,520 2,520 3,150 24,375 24,375 3,150 4,163 4,163 4,163 4,163 4,050 4,050	400 sf
19,500 19,500 2,520 2,520 2,520 2,520 3,150 3,150 3,150 4,163 4,163 4,163 4,050 4,050 4,050	440 sf
19,500 19,500 2,520 2,520 3,150 3,150 24,375 3,150 3,150 3,150 4,163 4,163 4,163 4,163 4,050 4,050	875 ST
19,500 19,500 2,520 2,520 3,150 3,150 3,150 3,150 4,163 4,163 1,400 1,400 4,050 4,050	
2,520 2,520 2,520 3,150 3,150 3,150 24,375 24,375 3,150 4,163 4,163 4,163 1,400 1,400 3,570 4,050 4,050 4,050	300
3,150 3,150 24,375 24,375 4,163 4,163 1,400 1,400 3,50 4,050 4,050 4,050	360
24,375 24,375 4,163 4,163 1,400 1,400 3,570 4,050 4,050 4,050	200
24,375 24,375 3,150 3,150 4,163 4,163 1,400 1,400 3,570 3,570 4,050 4,050	
24,375 24,375 3,150 3,150 4,163 4,163 4,163 4,163 1,400 1,400 3,570 3,570 4,050 4,050	
3,150 4,163 1,400 3,570 4,050 4,050	375
1,160 1,160 1,1400 1,050 1,050 1,050	450
5 1,400 1,400 7 3,570 3,570 3,570 5 4,050 4,050	925
5 1,400 7 3,570 5 4,050 7 4,050 7 7,000 7 9,570 7 7,000	
5 4,050 4,050 4,050	9
5 4,050 4,050	400
000,4, USOU	510
	30

					MAINTENANCE	ALTERNATE 1: LARGE SCALE RESTORATION	IATE 1: RESTORATION	AHA	ALTERNATE 2: PHASED RESTORATION	NO
	ITEM	QUANTITY UNIT	IT UNIT COS	T COST SUB-	Maintenance &	PHASE 1:	PHASE 2:	PRIORITY 1:	PRIORITY 2:	PRIORITY 3:
				OAL	repair	rian/Design	Restoration	o-10 yrs	11-15 yrs	13-cu yrs
West Center Parlor	Parlor	276		2 6			690		080	
Ceiling	n wood 1001 - danker stall in be bistoric	330		2			2.310		2.310	
Walls p	Walls plaster repair and paint per historic	009	7	4.5 2,700			2,700		2,700	
-										
Northwest Service Area	Srvice Area	276		2 6			290		690	
Ceiling	Ceiling plaser repair and paint per historic	330		2			2.310		2.310	
Walls p		009	7	4.5 2,700			2,700		2,700	
Altern	Alternate for Consideration									
Buil	Buildout for Elevator	allow		10,000			10,000			10,000
	noipouroudo pomos sous and an					000 60		44 500	0096	2 500
) Casi	Design rees, corist. Observation		Main I ovel/	Main Level/ Second FI Subt		21,000	241 290	137 950	3,000	2,300
Bedroom Level / Third Floor	Floor									
11-11 1-11-0										
Central Hall	one is been do series			4 500			7	4		
Repara	Appropriate Chandellers	3 ea 500 sf	GI.	85 32 500			32 500	32 500		
Ceiling	Ceiling plaser repair and paint per historic	600 sf					4,200	4.200		
Wallsp	Walls plaster repair and paint per historic	750 sf	,	3,375			3,375	3,375		
Install	nstall new "mural" wainscotting	400 lf	2	500 200,000			200,000	200,000		
Grain c	Grain door trim center hall and touch up	50 sf	- 8				5,000	5,000		
Kemov	Remove double door and transom partition	1 allow	30	3000			3,000	3,000		
associe	ated plaster repair		c				000,0	1,500		
Z-e-	re-craft missing wood stair rail	1 allow	20	4000 4 000			2,000	2,000		
New De	New period laylight in Skylight opening	1 ea	20				2,000	200-1		5.000
	6									
SE Bedroom - Mr. Reddick	keddick		,							
Approp	Appropriate Chandeller	1 ea	15	1500			1,500			1,500
Ceiling	Ceiling placer repair and paint per historic	400 SI					3,080		3.080	20,000
Walls	Walls plaster repair and paint per historic	875 sf	,	4.5 3.938			3,938		3,938	
Grain 1	Grain Trim per historic	80 sf	1				8,000		8,000	
Center East Bedroo	Bedroom - Library Interpretation	-								
Approx	oriate Chandeller	300 sf	15	500 1,500			10,500		1,500	
Ceiling	Ceiling plaser repair and paint per historic	360 sf					2 520		2,550	
Wallsp	plaster repair and paint per historic	700 sf	,	4.5 3,150			3,150		3,150	
Grain 1	Grain Trim per historic	80 sf		100 8,000			8,000		8,000	
NE Bedroom - Eliza	NE Begroom - Elizabeth Funk Redgick Begroom		4	4 500			4		4 500	
Replace	Applopriate Criandener Replace Camet	375 ef	0				1,500		1,500	
Ceiling	Ceiling plaser repair and paint per historic	450 sf					3,150		3,150	
Walls	Walls plaster repair and paint per historic	925 sf	7	4.5 4,163			4,163		4,163	
Grain 1	Grain Trim per historic	100 sf	1	1			10,000		10,000	
Furnitu	Furniture allowance			10,000			10,000			
M Dodbod Mo	OM Bodonom Mac Eliza Boddiak Bodonom									
Sw begroom - Mrs.	Appropriate Chandelier	4	7	1500			1 500			1 500
Replac	Replace Carpet	400 sf					26,000			26,000
Ceiling	Ceiling plaser repair and paint per historic	510 sf		3,570			3,570			3,570
Walls p	plaster repair and paint per historic	900 st	7	4.5 4,050			4,050			4,050
Grain 7	Grain Trim per historic	80 sf					8,000			8,000
Furnitu	ire allowance			10,000			10,000			10,000

							ALTERNATE 1:	JATE 1:		ALTERNATE 2:	
						MAINTENANCE	LARGE SCALE RESTORATION	RESTORATION		PHASED RESTORATION	NOI
ITEM		QUANTITY	LIND	UNIT COST	COST SUB-	Maintenance &	PHASE 1:	PHASE 2:		1: PRIORITY 2:	PRIORITY 3:
					TOTAL	Repair	Plan/Design	1-5 yrs	6-10 yrs	11-15 yrs	15-20 yrs
								Restoration			
West Center Dressing Room - Mrs. Eliza Reddick	ck Sk										
Appropriate Chandelier		1	ea	1500	1,500			1,500			1,500
Replace Carpet		275 sf	sf	92	17,875			17,875			17,875
Ceiling plaser repair and paint per historic	storic	330	sf	7	2,310			2,310			2,310
Walls plaster repair and paint per historic	storic	725 sf	sf	4.5	3,263			3,263			3,263
Grain Trim per historic		09	sf	100	000'9			000'9			6,000
Furniture allowance					7,500			2,500			7,500
Northwest Service Area											
Electrical Fixtures that fit within period	Pi	4	ea	400	1,600			1,600			1,600
Replace with wood floor - darker stain	. <u>⊆</u>	275 sf	sf	5.5	1,513			1,513			1,513
Ceiling plaser repair and paint per historic	storic	330 sf	sf	7	2,310			2,310			2,310
Paint walls per historic		009	sf	4.5	2,700			2,700			2,700
Alternate for Consideration											
Buildout for Elevator			allow		10,000			10,000			10,000
Restroom under stairs											
Updat fixtures			allow		200			200			200
update floor		25	sf	20	200			200			200
Paint		225	sf	ဇ	675			675			675
lighting		1	ea	800	800			800			800
Servant's Hallway											
Refinish wood floor - darker stain		120	sf		20,000			20,000			20,000
Ceiling plaser repair and paint per historic	storic	120 sf	sf	7	840			840			840
Paint walls per historic		009	sf	4.5	2,700			2,700			2,700
Paint stairs and treads			allow		1,500			1,500			1,500
Design Fees							47,500		23,500	8,500	15,500
				Bedroom Level	/ 3rd FI Subtotal		47,500	532,655	283,575	101,375	185,205
Servant's Level / Fourth Floor											
i											
Repair/Paint Third Floor Walls		4960	ea	4	19,840			19,840			19,840
Ceiling plaser repair and paint per historic	storic	2240 ea	ea	4	8,960			8,960			8,960
Refinish Third Floor Wood Flooring		2240 ea	ea	20	44,800			44,800			44,800
Third Floor Lights		10	ea	800	8,000			8,000			8,000
Design Fees							7,500				7,500
				Servant's Level/4th FI Subtotal	4th FI Subtotal		7,500	81,600			89,100
			SHRTO	SIIRTOTAI - MANSION INTERIOR	NINTERIOR	0	000 86	1 107 255	432 975	213 700	548 180
))		•	22000		i=		22.62

						DOM ON THE STATE OF	ALTERNATE 1:	IATE 1:	3	ALTERNATE 2:	3
	ITEM	VTITNALIO	LINI	TSOS TINII	COST SIIB.	Maintenance &	PHASE 30ALE	PHASE 2	PRIORITY 4.	4- PRIORITY 2- I	PRIORITY 3:
			•		TOTAL	Repair	Plan/Design	1-5 yrs	γı		S
								Restoration			
CARETAKER	CARETAKER'S HOUSE EXTERIOR										
Masonry											
	Short Term										
	Spot repointing est 10% of exterior		allow	8	8,500	8,500					
	Mortar Analysis		allow	5	500	200		200			
	Strip paint off limestone; consolidate/repellent		allow	9	6,500			0,500	6,500		
	Paint brick sills		allow		1,500			1,500	1,500		
	Mid-Term										
	Repoint entire building w/ appropriate mortar		allow	4	45,000			45,000		45,000	
	Replace inappropriate bricks w/brick to match		allow	8	8,500			8,500		8,500	
	Remove and replace severely deter. Limest.		allow		15,000			15,000		15,000	
											•
Soffit and Exterior Wood	rior Wood										
	Repair holes in soffit, secure loose boards, paint		allow	1	10,000	10,000		10,000			
	Review at close range & make spot repairs		allow	5	5,000				5,000		
	Prepare and paint Belvedere wood		allow	1	15,000			15,000	15,000		
	Prepare and paint entire sofft/fascia		allow	2	20,000			20,000	20,000		
Roof / Gutters / Downspouts	/ Downspouts										
	Seal gutter open seams		allow	8	8,500	8,500					
	Paint entire roof		allow	2	20,000			20,000	20,000		
	Replace sheet metal roof and gutter system		allow	1	18,000			18,000			18,000
Windows and Doors	Joors										
	Short Term										
	Repair window on north elevation		allow	1	1,500	1,500					
	Repair door on east elevation		allow	1	1,500	1,500					
	paint east and west el. Doors		allow	S)	500	200					
	Mid Term										
	All wndws and doors: caulk & putty; prep & paint		allow	1	15,000			15,000	15,000		
	Long Term										
	replicate historic porch & railing		allow	4	40,000			40,000			40,000
	remove concrete steps & ramp; reconfig for ADA		allow	3	50,000			20,000			50,000
				5)	SUBTOTAL	31,000		265,000	83,000	68,500	108,000
	Design Fees (9%) specs and const observation					2,790	24,000		7,470	6,165	9,720
						33,790	24,000	265,000	90,470	74,665	117,720
		SUBTOT	RTOTAL CARETAKER'S HOUSE EXTERIOR	CER'S HOLISE	= FXTFRIOR	33 790	24 000	265 000	90 470	74 665	117 720
			ביין יכי	, FIV 0 -1-0 CC	1	20,100	41,000	***************************************	O.17.00	20011	>1,'1

REDDICK MANSION HSR SULLIVAN | PRESERVATION

SUMMARY

1,295,034	780,230	1,846,593	3,348,688	324,336	125,710	TOTAL PROJECT EST. CONST. COST (2013 \$\$)	TOTAL PROJECT EST
5,840	7,787	91,759	79,819	6,100	23,873	AL EST. CONST. COST (2013 \$\$)	SITE TOTAL EST. COI
433	577	6,797	5,912	452	1,768	ncv (8%)	Construction Continaency (8%)
5,408	7,210	84,962	73,906	5,648	22,105	orice	Total estimated bid price
258	343	4,046	3,519	269	1,053	(%)	Desian Continaency (5%)
5,150	6,867	80,916	70,387	5,379	21,052	Subtotal	
245	327	3,853	3,352	256	1,002		Contractor's Fee (5%)
4,905	6,540	77,063	67,035	5,123	20,049	Subtotal	
405	540	6,363	5,535	423	1,655	ond / Insurance (9%)	General Conditions / Bond / Insurance (9%)
4,500	000'9	70,700	61,500	4,700	18,394	SUBTOTAL: SITE	
152,784	96,905	117,418	343,934	31,149	43,855	R'S TOTAL EST. CONST. COST (2013 \$\$)	CARETAKER'S TOTAL
11,317	7,178	8,098	72,411	2,307	3,249	ıcv (8%)	Construction Contingency (8%)
141,467	89,727	108,720	318,457	28,841	40,606	orice	Total estimated bid price
6,737	4,273	5,177	15,165	1,373	1,934	(%)	Desian Continaencv (5%)
134,731	85,454	103,543	303,293	27,468	38,673	Subtotal	
6,416	4,069	4,931	14,443	1,308	1,842		Contractor's Fee (5%)
128,315	81,385	98,612	288,850	26,160	36,831	Subtotal	
10,595	6,720	8,142	23,850	2,160	3,041	ond / Insurance (9%)	General Conditions / Bond / Insurance (9%)
		î) (: 			
117 720	74 665	90.470	265,000	24 000	33 790	OTAL : CARETAKER'S HOLISE EXTERIOR	SUBTOTAL
1,136,409	675,538	1,637,416	2,924,935	287,087	57,982	TOTAL EST. CONST. COST (2013 \$\$)	MANSION TOTAL EST
84,178	50,040	121,290	216,662	21,266	4,295	ncv (8%)	Construction Contingency (8%)
1,052,230	625,498	1,516,126	2,708,274	265,822	53,687	orice	Total estimated bid price
50,106	29,786	72,196	128,965	12,658	2,557	(%)	Desian Continaency (5%)
1,002,124	595,712	1,443,930	2,579,308	253,163	51,131		Subtotal
47,720	28,367	68,759	122,824	12,055	2,435		Contractor's Fee (5%)
954,404	567,345	1,375,171	2,456,484	241,108	48,696	Subtotal	
78,804	46,845	113,546	202,829	19,908	4,021	ond / Insurance (9%)	General Conditions / Bond / Insurance (9%)
875,600	520,500	1,261,625	2,253,655	221,200	44,675	AL: MANSION EXTERIOR AND INTERIOR	SUBTOTAL: MANS
548,180	213,700	432,975	1,107,255	98,000	0	SUBTOTAL: MANSION INTERIOR	
	•						
0	0	67,200	000'09	7,200	0	SUBTOTAL: MANSION STRUCTURAL (RELATED TO HVAC)	TAL: MANSION STRU
2,500	40,800	329,900	337,450	35,500	4,000	MECHANICAL / ELECTRICAL / PLUMBING	SUBTOTAL: MANSION MECHANIC
0	000 01	000	017		000		
324,920	266,000	431,550	748,950	80,500	40,675	SUBTOTAL: MANSION EXTERIOR	ns
15-20 yrs	11-15 yrs	တ	1-5 yrs Restoration	Plan/Design	Repair		
NO STIGOTION 3:	PHASED RESTORATION	PHAS	RESTORATION PHASE 2:	LARGE SCALE RESTORATION	MAINTENANCE	TINIT COST COST SIIB.	TINII
	ALTERNATE 2:	_	ATE 1:	ALTERNATE 1:			