RESTORATION AUTHENTICITY OR REALITY - A CASE STUDY

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Abstract. *In recent decades, the Venice Charter of 1964 [1] has provided the guiding principles for the conservation and restoration of ancient monuments. However, many interpret these principles as applying to historic structures in general, and not just monuments.*

The articles in the Restoration section of the Charter have several interesting statements (underlines are for emphasis) that are open to interpretation. In many cases, these statements cause a conflict of priorities, especially with funding being the overriding issue. In addition, local and national heritage agencies sometimes take a more liberal approach to restoration, particularly regarding authenticity.

The statements under discussion are:

“ARTICLE 9. The process of restoration is a highly specialized operation. Its aim is to preserve and reveal the aesthetic and historic value of the monument and is based on respect for original material and authentic documents. It must stop at the point where conjecture begins, and in this case moreover any extra work which is indispensable must be distinct from the architectural composition and must bear a contemporary stamp.”

“ARTICLE 10. Where traditional techniques prove inadequate, the consolidation of a monument can be achieved by the use of any modern technique for conservation and construction, the efficacy of which has been shown by scientific data and proved by experience.”

“ARTICLE 12. Replacements of missing parts must integrate harmoniously with the whole, but at the same time must be distinguishable from the original so that restoration does not falsify the artistic or historic evidence.”

Each of these statements affects the authenticity of the restoration. But, maintaining authenticity of the restoration has to be balanced with the reality of maintaining our heritage buildings on limited resources. Can it be done?

This paper discusses these challenges in the context of the 1996 restoration of a three-story, 19th century brownstone. The paper will include the conflicts with recommendations for an authentic restoration in accordance with the Charter principles. The work was performed on a limited budget and attempted to address the Owner's desire for an aesthetic solution. Finally, an assessment of the restoration after 23 years will be included.

1 INTRODUCTION

The question of authenticity in preservation has been debated for decades. Prior to 1964 there was no general consensus of what degree of authenticity was appropriate. What first was conservation of cultural heritage has expanded to be considered historic preservation. The forms include such objects as archaeological sites, artistic sculptures and paintings, cultural landscapes, buildings, and monuments.

Boito in 1883 presented a series of preferences for dealing with cultural properties to an Italian technical congress of architects and engineers [2]. The preferences adopted included a top priority to consolidation over repair. Next in priority would be repair rather than restoration. Proposed interventions were to be both identifiable and labelled as modern. Any elements or features that were to be removed should be documented and preserved for display at the site. He acknowledged that there may have already been renovations or additions subsequent to the original construction that now was a part of the history of site. Those renovation and additions might be deemed inferior or effectively hiding the original construction.

1.1 1931 Athens Charter

Followers of Boito were instrumental in creating the first Athens Charter in 1931 [3] which adopted many of Boito's ideas. Specifically, Section IV. - RESTORATION OF MONUMENTS states:

"The experts heard various communications concerning the use of modern materials for the consolidation of ancient monuments. They approved the judicious use of all the resources at the disposal of modern technique and more especially of reinforced concrete.

They specified that this work of consolidation should whenever possible be concealed in order that the original work of the artist should be preserved.

They recommended their adoption more particularly in cases where their use makes it possible to avoid the dangers of dismantling and reinstating the portions to be preserved."

No specific techniques or methods were proposed but highlighted their concern over the potential damaging use of reinforced concrete. They did recommend "That, in each country, the architects and curators of monuments should collaborate with specialists in the physical, chemical, and natural sciences with a view to determining the methods to be adopted in specific cases;". Scientific determination was essential to deciding a course of action. Interestingly, authenticity is not discussed.

1.2 1964 Venice Charter

Possibly reacting to the reconstruction of buildings and monuments following two world wars, the 1964 Venice Charter [1] professed to save our heritage through preservation authenticity. It provided a tool for fervent preservationists to limit uncontrolled development.

Generally, only preservationists study such documents. Since they are not legally binding, local implementation is highly dependent on local advocates.

The Restoration articles set new standards for preservation and authenticity.

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Subsequently numerous efforts have been made to refine the intent of authenticity including the 1965 UNESCO Archaeological Guidelines, the Burra Charter, the Declaration of Oaxaca, the Florence Charter, the Washington Charter, the Nara Document, the Charter of Brasilia, this Declaration of San Antonio, etc. Several of these are discussed in the following sections.

1.2 1994 Nara Document on Authenticity

In 1994, authenticity was the topic at the Nara (Japan) conference organized by the Japanese government in cooperation with the United Nations Educational, Scientific and Cultural Organization (UNESCO), International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM) and International Council on Monuments and Sites (ICOMOS). It criticized the Venice charter and authenticity. The document [6] addresses authenticity “in response to the expanding scope of heritage concerns and interests in our contemporary world”.

Article 11 states “All judgements about values attributed to cultural properties as well as the credibility of related information sources may differ from culture to culture, and even within the same culture. It is thus not possible to base judgements of values and authenticity within fixed criteria. On the contrary, the respect due to all cultures requires that heritage properties must be considered and judged within the cultural contexts to which they belong.”

It nearly removes authenticity from the requirements for cultural context. From this, countries were encouraged to develop their own criteria for dealing with preservation and authenticity.

1.4 1996 Declaration of San Antonio

In March 1996, the InterAmerican Symposium on Authenticity in the Conservation and Management of the Cultural Heritage was held in San Antonio, Texas, USA by the ICOMOS National Committees of the Americas to address the meaning of authenticity in preservation in the Americas. The Nara document was reviewed and critiqued. Recommendations were made to modify it by issuing a declaration [7].

When discussing authenticity and materials, it was stated that “..there are important sectors of our patrimony that are built of perishable materials that require periodic replacement in accordance with traditional crafts to ensure continued use. Similarly, there are

heritage sites built of durable materials but that are subject to damage caused by periodic natural catastrophes, such as earthquakes, floods and hurricanes. In these cases, we also assert the validity of using traditional techniques for their repair, especially when those techniques are still in use in the region, or when more sophisticated approaches would be economically prohibitive.” Thus there was an affirmation of protecting cultural heritage without limiting to authentic restorations.

2 RESTORATION IN THE UNITED STATES

The United States has numerous agencies that oversee historic preservation. At the national level, the National Park Service of the U.S. Department of the Interior controls historic preservation of national sites through the National Trust for Historic Preservation. Generally, each state has its own agency for state historical sites and finally local governments can have a regional agency. Often, determining the appropriate agency and designation is a challenge for any consultant. Several agencies are discussed as follows. Each has taken a local pragmatic approach to preservation.

2.1 New York City

The Landmarks Preservation Commission is a charter-mandated New York City commission. It is the largest municipal preservation agency in the United States. Created in 1965, it was formed to combat losses of historically significant buildings in New York City. According to the Landmarks Law [4], “the purpose of safeguarding the buildings and places that represent New York City's cultural, social, economic, political, and architectural history is to:

- Stabilize and improve property values
- Foster civic pride
- Protect and enhance the City's attractions to tourists
- Promote the use of historic districts, landmarks, interior landmarks, and scenic landmarks for the education, pleasure and welfare of the people of the City.”

The 1964 Venice Charter is not mentioned in the law creating the commission although advocates probably were aware of its existence. Yet, there is no mention of maintaining authenticity as the leading component of preservation. It emphasizes financial reasons as a major driving force.

The commission operates under a set of rules [5]. Section 2-11 includes Repair, Restoration, Replacement and Re-Creation of Building Façades and Related Exterior Elements. Authenticity is addressed in Subsection (b)(3) “In all cases, except where noted, the repair, restoration, replacement or re-creation must match the original or historic materials and features in terms of its physical and aesthetic characteristics, including design, detail, profile, dimension, material, texture, tooling, dressing, color and finish, as applicable.” In Subsection (b)(2), it states “Where replacement of large quantities of materials and/or significant architectural features is proposed, the applicant must provide an assessment of the deteriorated conditions warranting such replacement(s). Repair will be given priority over replacement if feasible.” So, priority is given to repair over replacement but the rules provide a path to replacement.

Subsection (d)(1) requires “Replacement materials and features should match the original or historic material or feature in terms of physical and aesthetic characteristics. For purposes of this subdivision, this means that replacement material should be “in-kind” in terms of using the actual original or historic material and installation techniques. In-kind replacement should be prioritized and fully considered prior to proposing substitute materials.” While in-kind materials are a priority for replacement, substitute materials are allowed under another section.

2.2 Chicago

Chicago is another major US city with a history of protecting its historic structures. The Commission on Chicago Landmarks was created in 1968. The program [8] addresses exterior qualities of buildings that are “significant historical or architectural features”.

Chicago took the approach of basing its guidelines on the U.S. Secretary of the Interior's Standards for Rehabilitation of Historic Buildings [9] and extending them. Among their objectives they list “To identify, preserve, protect, enhance, and encourage continued utilization and the rehabilitation of such areas, districts, places, buildings, structures, works of art, and other objects having a special historical, community, architectural, or aesthetic interest or value to the City of Chicago and its citizens”.

Several specific aspects of the standards include:

“Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property shall be preserved.

Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.”

As with New York, we see a desire to prioritize the preservation of historic features. However for replacement of deteriorated features, both cities chose to require the imitation of the original features and not distinguish them as was proposed in the Venice Charter. This is in keeping with both the Nara Document and the San Antonio Declaration which essentially suggest self-determination of authenticity.

3 CASE STUDY- FAÇADE RESTORATION OF 1889 BROWNSTONE

This project was completed in 1996. It occurred during a time period when the Nara Document and the San Antonio Declaration were redefining whether restorations needed to be authentic. It is not clear whether the redefinition by these organizations was ground breaking or actually a reflection of what communities and cultures were already doing.

Specifically, the city and state where this project occurred had been requiring authentic restoration; repairs were to be performed using original materials and original techniques. This project was the first known departure from authentic with an historic residential property.

Figure 1 shows its building in 1996 and in its current condition. The primary difference is attributed to the photography and daylight. The restoration was documented previously [10].

Figure 1a: Facade 1996

Figure 1b: Facade 2019

3.1 Background

The building received local historic status in the 1970s. It has ornate stone carving from base to the roof that is unique. The brownstone is ornamental and overlays a brick structure.

The Owner purchased the building c. 1973 but by 1991, pieces of the brownstone (ornamentation) were missing and the building was in disrepair. The Owner started inquiries as to how to restore the façade. Aided by HAF, the local preservation organization, efforts were made to obtain grant funding but with no success. However in 1992, HAF was able to attract a number of preservation specialists to a Sandstone Colloquium which included a hands-on assessment of the building.

Following a day of façade examination by the specialists, over 50 attendees met to discuss the specialists' findings. To the dismay of the Owner, there were many ideas and the predominant recommendation was to add sidewalk protection in the short term. Long term they proposed that most of the brownstone be removed and replaced with new carved pieces. The projected repair cost was \$250,000 to \$500,000 which greatly exceeded the building value. This was beyond the means of the retired Owner on a pension.

The sidewalk scaffolding was quickly added and the Owner continued to seek funding. Finally in 1995, the deterioration accelerated and material losses were far worse; the Owner became desperate. City building officials were demanding action.

A mason restoration contractor who attended the initial symposium and who provided the sidewalk protection stepped in to offer assistance by meeting with HAF and the building officials.

Historic buildings were expected to be restored using original materials and techniques. But the cost was beyond the Owner's ability to fund so negotiations with the city officials yielded an option:

Remove the brownstone and plaster coat the brick without any ornamentation.

The intent was to provide a safe façade even if it meant losing the aesthetic character of the facade. The contractor estimated this might cost \$50,000 to \$60,000. The Owner agreed to this level of funding for a budget.

Contrary to local practice, the contractor proposed an alternate solution with the budget of \$60,000. They would first remove the severely deteriorated brownstone and stabilize the areas still intact. Then they would re-evaluate the budget. The remaining funds would be dedicated to replacing the deteriorated brownstone with a brownstone patching material that could be carved to replicate the ornamentation. Patches would be anchored with stainless steel pins and wire. If funding was insufficient, plaster would be used as proposed by the city and some aesthetic features would be lost. This would met the city officials' goal to stabilize the façade yet restore some of the features. The city officials approved this concept and gave its first-ever building permit for a project which they did not know what the final appearance of the building would be.

3.2 Restoration

The Contractor recommended the Owner hire the author as her restoration engineer and the team was created. Scaffolding was first erected and a hands-on survey was performed. The problems discovered were related to inferior stone from the quarry and long-term deterioration. Figure 2 shows a sampling of the damage a) sill damage, b) exfoliation of vertical pier, c) underside of sill, and d) dentil damage. The damage was removed to sound material and patched. Damage was scattered throughout the façade. Details were developed cooperatively between the Engineer, Contractor and the material supplier [11] selected. The Owner anxiously watched the work proceed daily from across the street.

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Figure 2: Representative problems from 1996

The mason craftworker that installed and carved the patches was quite expert. He replicated the details exactly. In the end, the restoration contractor was able to repair all the deteriorated areas within the budget. The Owner, the HAF, and city officials were very pleased with the results. Their leap of faith in trusting the contractor was justified.

3.3 Performance

The façade condition in Figure 3 shows that the restoration has performed well for over 23 years. There is deterioration visible below a window sill (arrow, Figure 4). The brownstone is delaminating at the interface with the patches; it's likely the original deteriorated brownstone might not have been removed deep enough before installing the patch at this location. The current deterioration will need repairs in the coming years.

Figure 3: Façade 2019

Figure 4: Sill deterioration 2019

The ornamentation of the synthetically-patched façade is nearly undetectable under most climatic conditions. During rainy weather, the patches are evident since they do not absorb water the same as the brownstone (slightly visible in Figure 3). However since the façade faces the sun, it dries relatively quickly and the patches blend in again.

4 SUMMARY/LESSONS LEARNED

- While the case study demonstrates a successful synthetic restoration that has performed well for over two decades, the real point here is that the concept of maintaining authenticity was challenged for practical reasons. Authentic replacement was cost prohibitive and the Owner did not want to have a non-descript face for her building. Reality for the Owner was that she wanted to enjoy her building and that meant restoring the façade aesthetics even if they were not be authentic.
- The restored facade maintains the value of the property and fits within the historic context of the neighborhood. Simply stabilizing the façade would have maintained public safety but would not have produced a culturally acceptable solution.
- As a society, authenticity should be the highest priority for our restorations. But, not at the expense of losing the very fabric of the buildings and monuments that we enjoy. As previously noted, this project coincidentally occurred within the time period where authenticity was being challenged by the principles of the Nara Document and the San Antonio Declaration. Communities (like New York City and Chicago for example) and owners were deciding what was important culturally and allowing alternate materials and modern techniques to be used in restorations. This self-determination now seems to be a mainstay of most preservation regulations in the United States.
- Today, there are synthetic restoration products that have decades of use for which to be judged. That was not the case in the 1990s. From my experience, engineers are not qualified to make an informed decision on accepting new materials that don't have a long history of use without the assistance of specialists. This case study project had a chemist as the owner of the company supplying the patching material who provided the material expertise and an expert restoration contractor who could assess the material. They were integral to the judging the restoration design and making the best decisions given the limited budget.
- Judging the success of a restoration project can only be done through time. While heralded as a success in 1996, time has given us more data. Today, we know more about various synthetic products and proper installation techniques. The material used on this restoration has proven itself on numerous projects over the years and continues to be selected by restoration professionals.

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