# HISTORIC LANDMARK COMMISSION
## APPLICATION FOR A CERTIFICATE OF APPROPRIATENESS
## NOVEMBER 16, 2020
## C14H-1978-0038
## PARAMOUNT THEATER
## 713 CONGRESS AVENUE

### PROPOSAL

Replace mortar on the exterior north wall of the theater pursuant to a Heritage Grant application.

### PROJECT SPECIFICATIONS

This application constitutes Phase II of a grant application previously approved by the Commission for repair and replacement of damaged mortar on the building. The instant application is for the north wall of the theater building; the prior approval was for the south wall. All other aspects of the project remain the same as the prior approval.

### STANDARDS FOR REVIEW

The Secretary of the Interior's Standards for Rehabilitation are used to evaluate projects on historic landmarks. The following standards apply to the proposed project:

5) *Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.*
   Evaluation: The applicant proposes to match existing mortar in terms of color, texture, and formula.

6) *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.*
   Evaluation: The applicant proposes to match existing mortar in terms of color, formula, and texture.

The project meets the applicable standards.

### COMMITTEE RECOMMENDATIONS

Not reviewed.

### STAFF RECOMMENDATION

Approve as proposed.

# AMR Labs

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Job Name/#: Paramount Theatre's South wall
Address:
City/ST/Zip:

South Wall Sample (Copper parapet)

| Description of Work: | | Mortar Testing/Analysis | | Mortar Color Match | |
|---|---|---|---|---|---|

| Crushing Pressure: | N/A | 75psi | 150psi | 350psi | 750psi | 1800psi | 2800psi | Over 2800psi |
|---|---|---|---|---|---|---|---|---|
| | | ✓ | | | | | | |

Crushing pressure is relative due to the size, age, and shape of samples being tested. Some variance is allowed.

| Relative Crushing Pressure Indicates Mortar Type: | L ✓ | K | O | N | S | M | Portland |
|---|---|---|---|---|---|---|---|

| Visible Parts: | Historic Lime ✓ | Unmixed Lime | Unmixed Portland | ✓ Large Aggregates |
|---|---|---|---|---|

Notes: Sample Cup contained some thin portland based repair smears

| Weight Loss: 39.68 g - 29.05 g = 10.63 g | .26789 | Indicates: | High Mix : Sand | Low Mix : Sand | Good Mix : Sand ✓ |
|---|---|---|---|---|---|

**Acid Reaction:**

| | | High | | Medium | | Low | | None |
|---|---|---|---|---|---|---|---|---|
| Lime Reaction | | ✓ | | | | | | |
| Portland Reaction: | | | | Medium | | Low | | None ✓ |

| Acid Reaction and Weight Loss are consistent with test results for **mortar type:** | L ✓ | K | O | N | S | M | Portland |
|---|---|---|---|---|---|---|---|
| Indications of Sealer floating in solution: | | | Yes | | — | No | |
| Samples **indicate a repair:** | | | Yes | | ✓ | No | |
| Samples being tested are different: | | | Yes | | ✓ | No | |
| Pigment found: | | | Yes | | ✓ | No | |

| Sand: | | Graded size particles | | | Not Graded |
|---|---|---|---|---|---|
| Visual Sand Gradation: | | % Fine Particles | | % Medium Size Particles | % Larger Particles |

Notes: #8-1.30% #16-7.69% #30-49.33% #50-34.53% #100-5.46% #200-1.66% F-0.20%
Sand Description: Clear, tan, brown, pink, black particles jagged shapes

## Summary:

| Mortar Type: | L ✓ | K | O | N | S | M | Portland |
|---|---|---|---|---|---|---|---|
| Mortar Formula: | P=Portland | | | L=Lime | | S=Sand | |

Sand variance is between 2.25 and 3 parts sand by volume. **P + L= total Mix multiplied by 2.25 to 3 parts sand.**
*Be sure to measure the sand as* ***loose damp aggregate.***

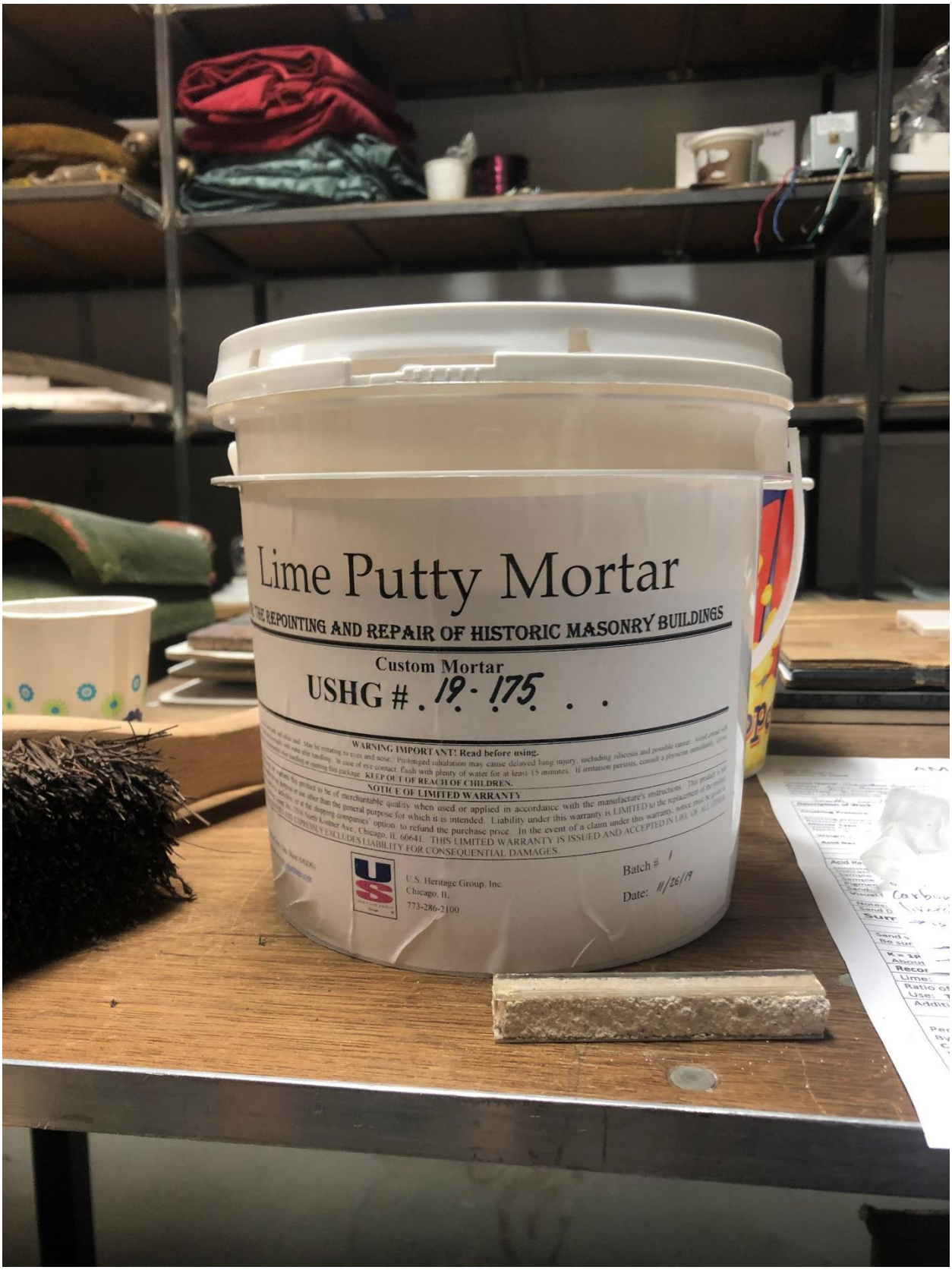
| Formulas | L = 1 part lime : (2.25-3)Sand | Portland = 1 part Portland : (2.25-3)Sand | | | |
|---|---|---|---|---|---|
| K = 1P : 3L :: S About 12 sand | O = 1P : 2.5L :: S About 10 sand | N = 1P : 1.25L :: S About 6 sand | S = 1P : 1/2L :: S About 4 sand | M = 1P : 1/4L :: S About 3 sand | |

| Recommendations: | | | | | | | |
|---|---|---|---|---|---|---|---|
| Lime: | | Type S/SA Lime | | ✓ Historic Lime | | | |
| Ratio of Mix to Sand: Use: **Times the total of P + L** | | 2.25 parts sand | ✓ | 2.5 parts sand | | 3 parts sand | |

Additional Recommendations/Notes:

Performed By: _____
**Color Code:**
Type: ____, #: _____,
Pigments: _____

Date of Analysis: 11/11/19
Approved/Performed By: _____
James Nech - GM-AMR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