

**HISTORIC LANDMARK COMMISSION
APPLICATION FOR A CERTIFICATE OF APPROPRIATENESS
FEBRUARY 24, 2020
C14H-1978-0038
PARAMOUNT THEATER
713 CONGRESS AVENUE**

PROPOSAL

Tuck-point south wall mortar.

PROJECT SPECIFICATIONS

The applicant seeks a heritage grant to tuck-point deteriorating mortar on the south wall of the historic landmark theater.

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.

- 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 (Upper 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		L	K	O	N	S	M	Portland	
Mortar Type:									
Visible Parts:	Historic Lime	Unmixed Lime	Unmixed Portland		Large Aggregates				
Notes: <u>Sample cap contained some thin Portland based repair mortar</u>									
Weight Loss:	<u>39.68</u> g - <u>29.05</u> g = <u>10.63</u> g	<u>26.789</u> g	Indicates:		High Mix : Sand	Low Mix : Sand	Good Mix : Sand		
Acid Reaction:									
Lime Reaction		High	Medium		Low		None		
Portland Reaction:		High	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: <u>#8-1.50% #16-7.69% #30-49.35% #50-34.53% #100-5.46% #200-1.06% F.O.-2.0%</u>									
Sand Description: <u>clear, tan, brown, pink, black particles jagged shapes</u>									
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:		2.25 parts sand		2.5 parts sand		3 parts sand			
Use: Times the total of P + L									
Additional Recommendations/Notes:									
Performed By: _____ Color Code: Type: _____, #: _____ Pigments: _____				Date of Analysis: <u>11/11/17</u> Approved/Performed By: _____ James Nech - GM-AMR					





