

Execution Plan for Tuck-Pointing Repairs – Historical Museum

Project Overview

This project focuses on strategic tuck-pointing repairs to ensure the Historical Museum remains watertight and protected from environmental damage. Due to budget and scope limitations, work will be concentrated on critical areas above the roofline where deterioration poses the greatest risk to water infiltration.

Scope of Work

- Perform selective repointing of masonry joints on elevations above the roofline.
- Use appropriate mortar that matches the historic masonry in composition, color, and texture, following National Park Service (NPS) preservation guidelines.
- Coordinate tuck-pointing with roof replacement and flashing installation to create a comprehensive water-tight envelope.

Methodology

- Inspect and identify deteriorated joints requiring immediate attention.
- Carefully remove failed mortar without damaging adjacent masonry.
- Apply new mortar in compliance with NPS standards for historic masonry repair:
 - Match original mortar properties (lime-based, compatible aggregates).
 - Avoid Portland cement-based mixes that can damage historic brick.
- Ensure proper curing and protection during work to prevent premature failure.

Preservation Considerations

This work will adhere to best practices outlined in NPS resources:

- *Preservation Brief 2: Repointing Mortar Joints in Historic Masonry Buildings*
- *Restoration Guide for Historic Masonry Buildings*
- *Rehabilitation Guidelines for Masonry*

End Goal

The primary objective is to maintain the museum's structural integrity and prevent water intrusion while respecting its historic character. This targeted approach will stabilize vulnerable areas and prepare the building for future preservation efforts.

