

Aquia Harbour Pre-School & Community Space

An existing one-room school re-imagined into a modern, light-filled "pavilion" for a pre-school and community space.

HISTORY & CONTEXT

- Aquia Harbour is a community located in Stafford County, Virginia
- The community includes a variety of parks, playgrounds, and Aquia Harbour Marina.
- The historic Aquia Creek runs through the community providing a navigable waterway leading to the Potomac River.
- Aquia Harbour Preschool (AHPS) has been serving the community since 1977.

PROGRAM ELEMENTS:

- Circulation Areas
- Classroom Spaces
- Care/Administration Spaces
- Service/Utility Spaces
- Flexible-Space for community use

STRUCTURAL REVIEW:

• Determined feasibility of reusing majority of existing building structure in new design.

SOLAR AND SITE ANALYSIS:

Informed the design footprint and program placement.

DESIGN COMPONENTS:

- 1. Lighthouse:
- Echoes the existing lighthouse feature located at the Aquia Harbour marina.
- Taller, skylight structure datum used to orient the plan components, as well as the user.
- North-oriented to capture indirect natural daylight.
- Reduces electric lighting needs in classrooms.

2. Pavilion:

- Uses original building for learning spaces in a "one-room schoolhouse" concept.
- Celebrates reuse with full-height ceilings and exposed collar-tie structure.
- Creates a tent-like atmosphere for learning spaces.
- Organized into separate areas (play, eating/learning, reading/soft-zone, group/audio-visual)
- Intended as a flex-space for community use.

3. Loggia:

- Establishes a new and obvious front to the building.
- New entryway and signage integral to design
- Relocates main entry access to left side for uninterrupted pavilion use.
- "Wrapper" structure houses support and administrative spaces outside of pavilion.
- Provides singular access path for AHPS program needs.





Existing









Interior Renderings

15



East Elevation

Front Elevation

- Teacher's office at entrance to provide visuals of incoming visitors and students.



West Elevation

Rear Elevation



West Rendering

Rear Rendering



Skylight Sections



Loggia Renderings

AQUIA HARBOUR PRE-SCHOOL





