

#### **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:**

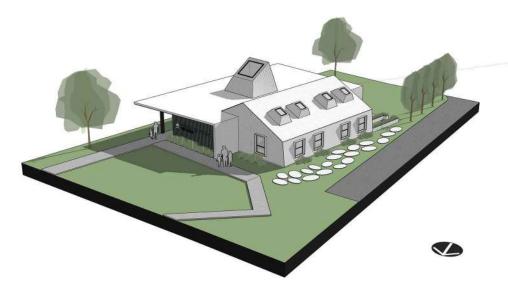
- 1. Lighthouse:
- Echoes the existing lighthouse feature located at the Aquia Harbour marina.
- Taller, skylight structure datum used to orient the plan components, as well as the user.
- North-oriented to capture indirect natural daylight.
- Reduces electric lighting needs in classrooms.

#### 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:

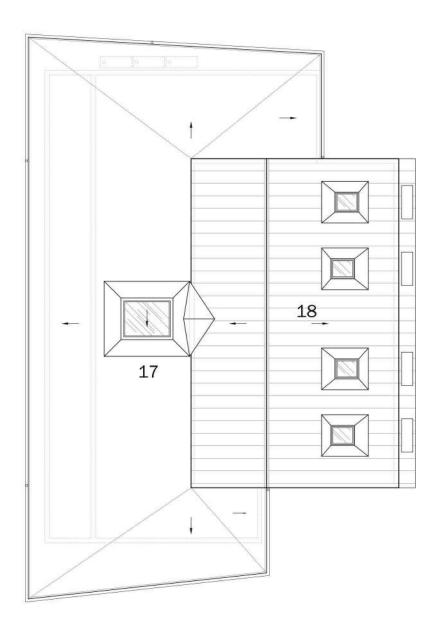
- Establishes a new and obvious front to the building.
- New entryway and signage integral to design
- Relocates main entry access to left side for uninterrupted pavilion use.
- "Wrapper" structure houses support and administrative spaces outside of pavilion.
- Provides singular access path for AHPS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



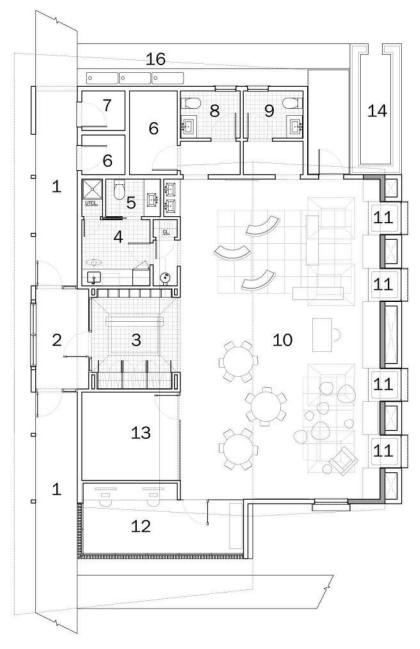
**Aerial View** 



Existing



**ROOF PLAN** 





# FLOOR PLAN 0\_\_\_\_ 4'\_\_\_8' 16'

- 1. LOGGIA
- 2. AIRLOCK
- FOYER / SKYLIGHT
- 4. KITCHEN
- STAFF WASHROOM
- STORAGE

- 7. MECHANICAL 8. RESTROOM 01
- 9. RESTROOM 02 10. CLASSROOM
- 11. WINDOW NOOK / STORAGE
- 12. OFFICE
- 13. CARE & DRILL 14. GARDEN BED 15. PLAYGROUND
- 16. RAIN WATER TANKS 17. MAIN SKYLIGHT /
  "LIGHTHOUSE"

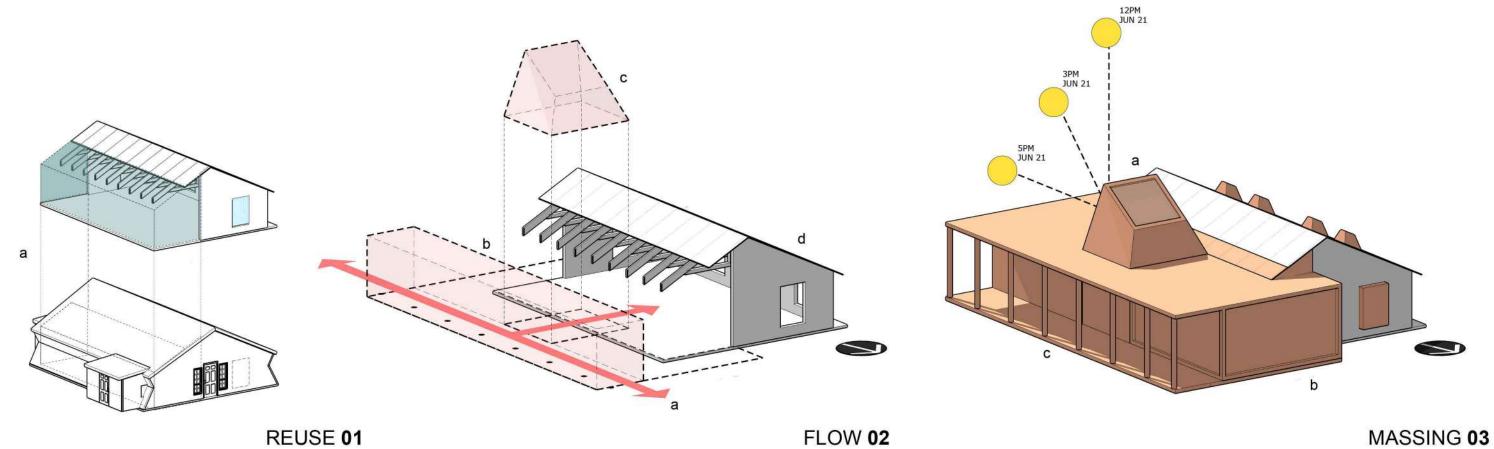
  18. SECONDARY SKYLIGHTS







Interior Renderings



## REUSE 01

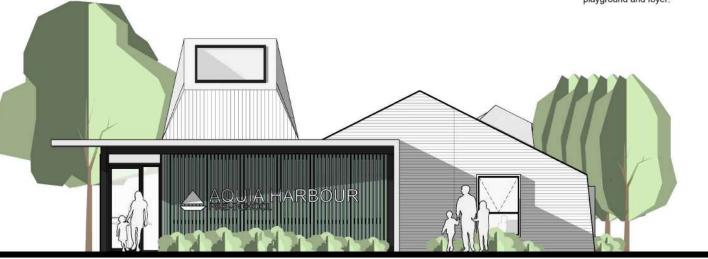
a. 3/4 of the existing structure to be removed.



- a. New path and entry
  b. Loggia + airlock
  c. Skylight "lighthouse" centered to distribute natural lighting in the interiors.
  d. Original structure.



- Skylight tower "lighthouse" oriented north to only capture indirect sunlight all year-round.
- Teacher's office at entrance to provide visuals of incoming visitors and students.
- Lateral loggia to connect to playground and foyer.



Front Elevation



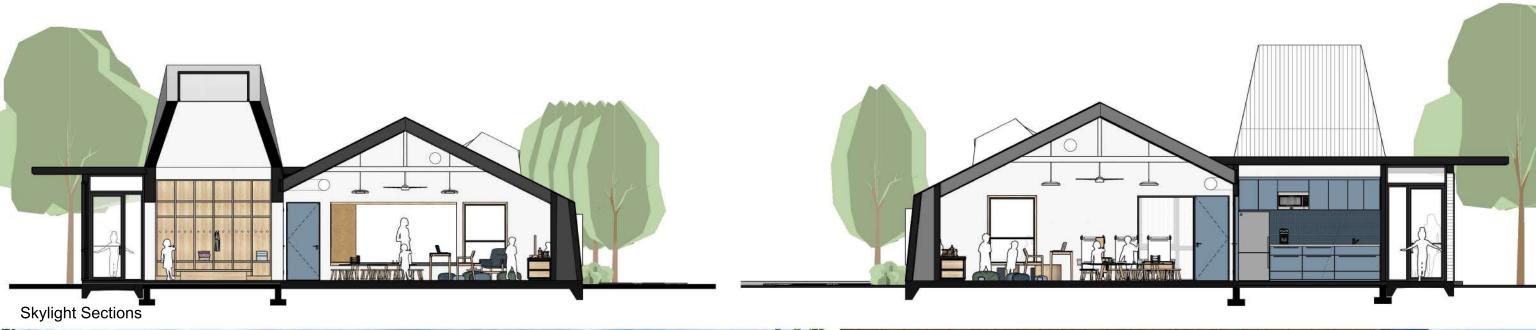
West Elevation Rear Elevation





West Rendering

Rear Rendering







Loggia Renderings





