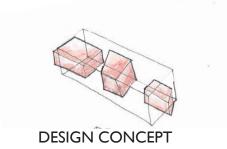


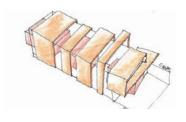
[Creativity Sustaining Community]

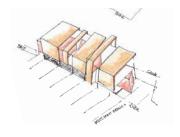
Georgetown, Washington D.C. | Graduate Submission | Studio Project

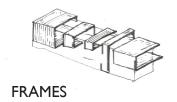
The project [Creativity Sustaining Community] focuses on meeting the program needs of Pigmental Studios with figural program solids surrounded by flexible work space. The solid program pieces acted as a core, wrapped in a parametric, interactive skin that brings life to the surrounding community, and to the Georgetown waterfront. A series of frames, mimicking the adjacent Whitehurst bridge, act as a shell that blocks views when needed and reaches to capture light and energy. These frames are regulated by the grid of the Whitehurst Bridge, while in between the frames, a glass curtain wall and green roof act as a datum to guide the frame's vertical and horizontal movement. Our site is located in Georgetown, Washington D.C. and is straddled by the Key Bridge to the West and the Whitehurst Bridge to the South. The steep topographic change allows for interesting design when handling the connection between M street, to the north, and the Potomac River, to the south. Pigmental Studios, an animation studio, worked to give guidance and advice as the client for a building that inspires artists and designers. Sustainable design fosters a healthier atmosphere for the artists and an interactive experience fosters a relationship between Pigmental and the community. This design creates a place for the community to come and experience the "story" of movie making. The design process of movie making is mirrored in this design process of architecture.

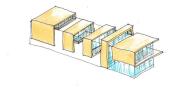


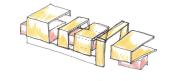


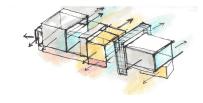


























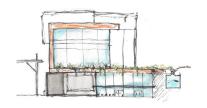


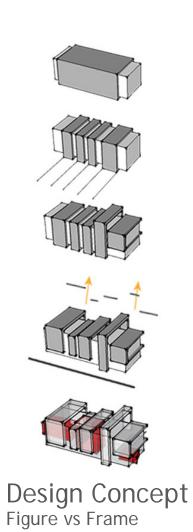
CANAL SIDE MASSING

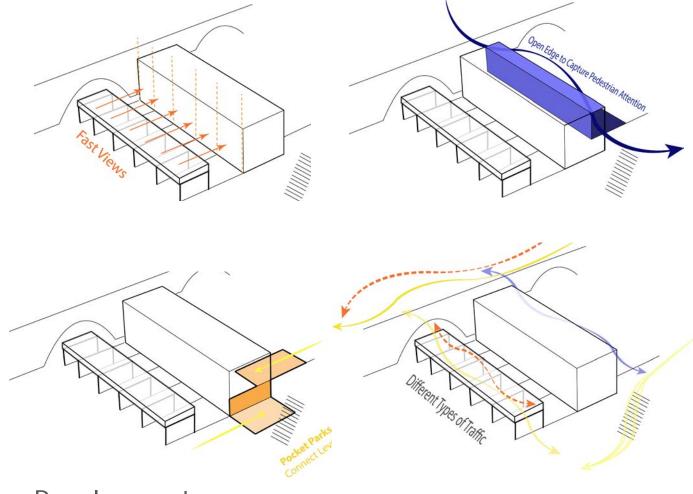












Development Flows Translating onto Facade



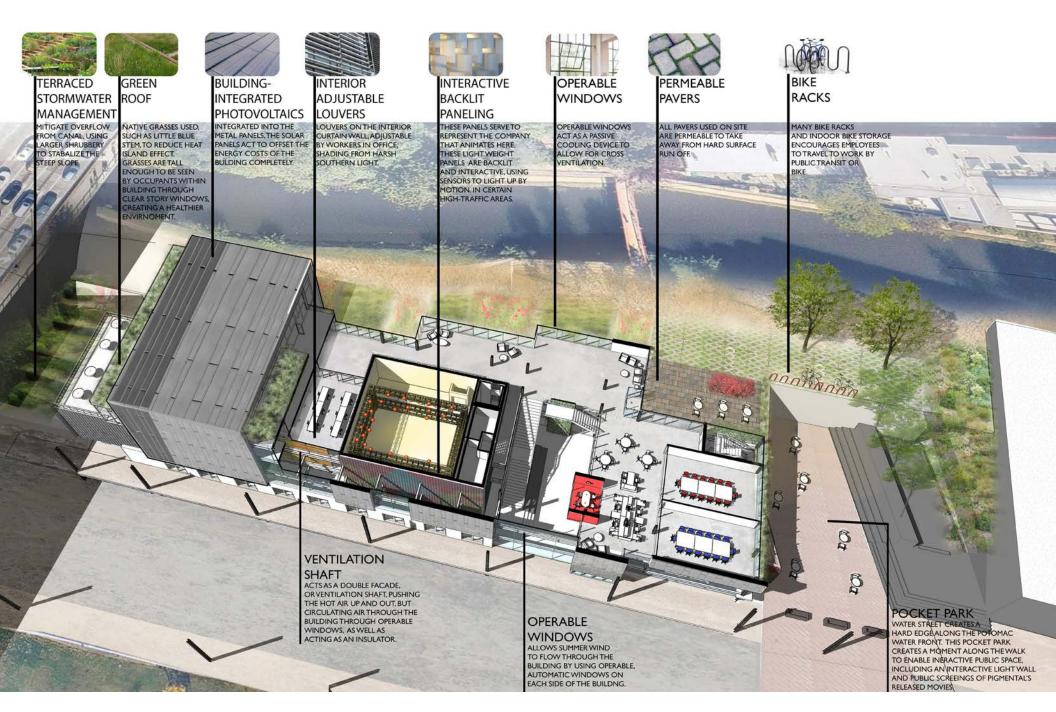






Sitting adjacent to the Key Bridge, this building is the last building on the Georgetown Potomac Waterfront. On the north side of the site runs the C&O canal, and past that a steep slope up to the busy, retail focused M street. A small, pedestrian foot bridge crossing the canal allows heavy foot traffic down past the East side of the building. This dual approach comes together in an interactive pocket park, which brings relief to the hard waterfront edge and a sense of place to the highly trafficked area. On the canal side, the building gives an interesting layered effect to those who run and bike past on the heavily trafficked canal walkway. A priority for the client was to engage the community with this building, and for the community to experience their passion and art. The park holds outdoor screening for film festivals and an interactive motion sensor wall that engages the public. People can enter the triple story main lobby where there is a cafe and a layered effect of people working at their different crafts. As a community member you can see anything from artists drawing, to people acting on the motion capture stage, to people recording in the soundstage, to people learning in a hands on classroom.





Performance Diagram

Material Palette







HISTORICAL



Georgetown Brick Salvaged brick used as a base for the building, giving the building a character that gestures towards historical Georgetown

CONTEMPORARY INNOVATIVE



Metal Panels
Long strips of metal
act as cladding for the
shell of the builing,
conveying a modern and
contemporary style



Triple Glazed Curtain Wall
Three layers of glass allows
high level of solar heat gain and
thermal insulation properties.
Large exterior mullions help
to block sun.

VEGETATION



Little Blue Stem
One of the native
grasses used on the green
roof, enjoys full sun and
grows to be 3' tall, easily
seen through the clear story



Maidenhair Fern
Native fern which thrives
in shade and moist
conditions, used in the
terraced storm water
managament system.,
shaded by the Key Bridge.



A native shrub to stabalize the steep slopes that prone to flooding. Thrives in shade or sun and attracts birds and manamals, creating a healthy ecosystem.

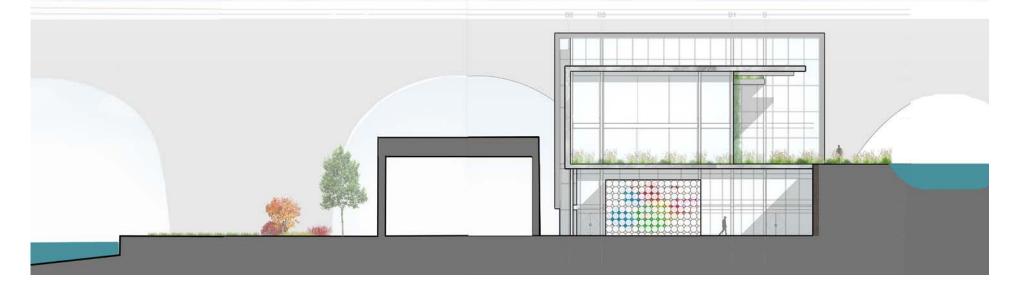
Pigmental Studios

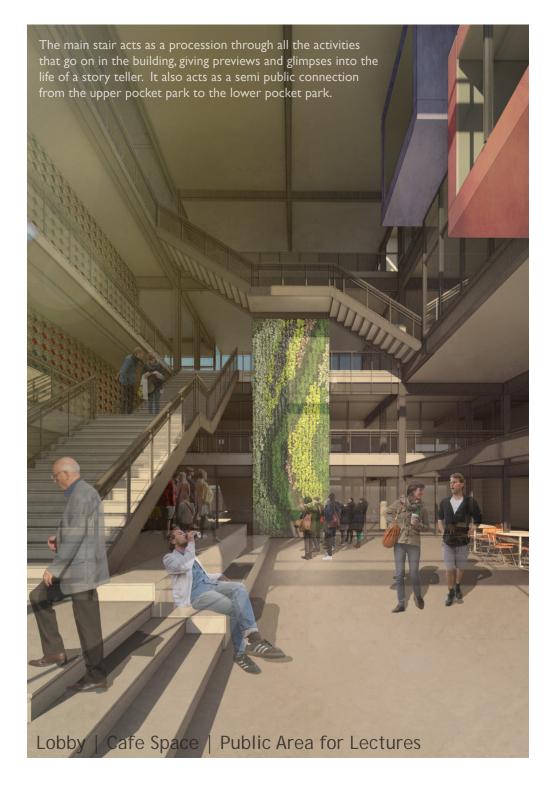
The interactive walls were inspired by the animation studio company the building was designed for. Their slogan is "Unlock the Colors of Your Imagination".

time

interactive wall

East Elevation | Pocket Park







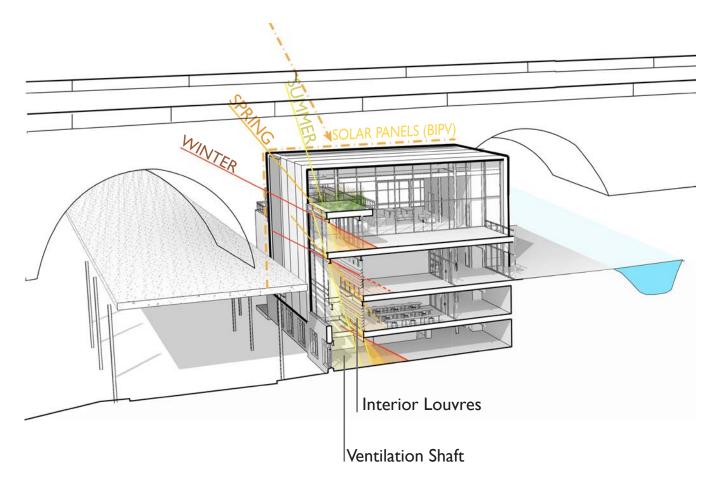




4,200 Sqft

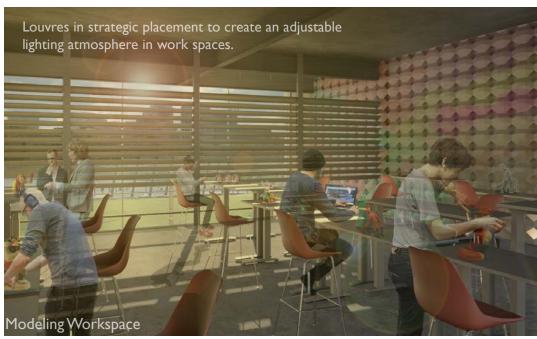
Building Integrated Photovoltaics
needed to offset the energy costs of the building

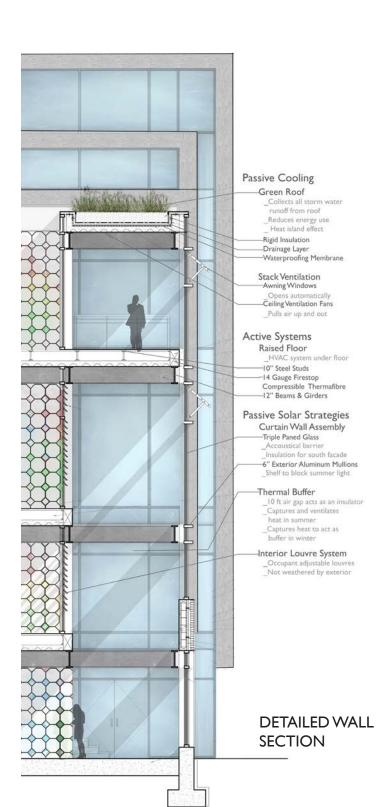
 $\begin{array}{c} 65\% \\ \text{Building daylit during occupied hours} \end{array}$



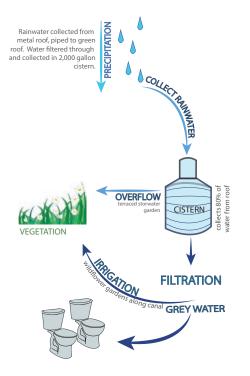
Light Analysis | Healthy Work Space



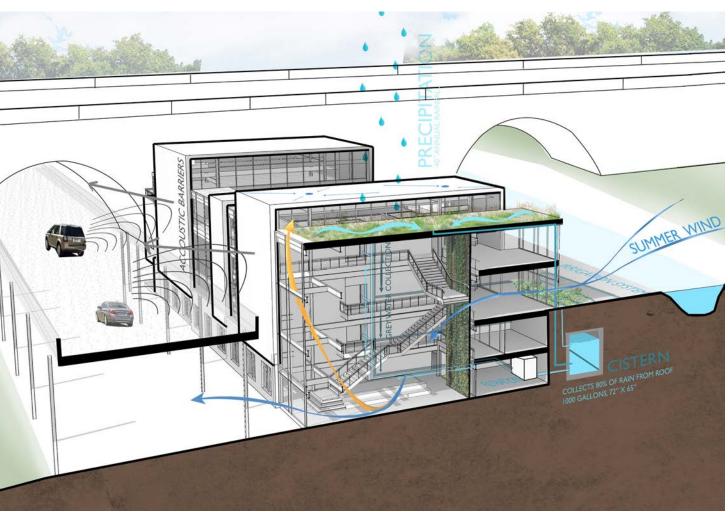


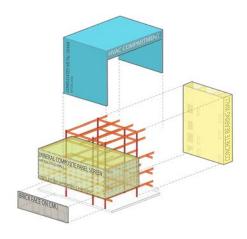


180% Stormwater Managed Onsite



346,739
Gallons Harvested Annually





Under each frame, the drop gypsum board ceiling is pulled back two feet on each side of the frame, revealing the steel structure behind it. LED strip lighting then sits on top of that drop ceiling, up lighting the room and creating a "halo" effect.

The HVAC and air ventilation is a unique and modern design, using a variable refrigerant system. It uses small pipes to carry hot and cold water, which quickly activates the temperature settings in any given zone, allowing for custom settings in all rooms, quickly creating a comfortable atmosphere.

The small units can be placed under the wrapping shell along with the fresh air system, using the shell to completely incorporate it's systems.



