

A stack of dark, wavy-edged sheets, possibly corrugated metal or plastic, is shown in a black and white photograph. The sheets are stacked and their edges are curved, creating a rhythmic, wavy pattern. The text 'R.C. ROWE' is overlaid in a large, white, sans-serif font across the top of the image.

R.C. ROWE

PORTFOLIO



suckerPUNCH



Hotel



Next Stop



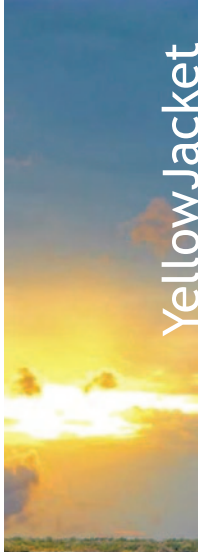
texFAB



Medical Office



Mexico City Zocalo



YellowJacket



Houston Baths



Facade Restoration



suckerPUNCH



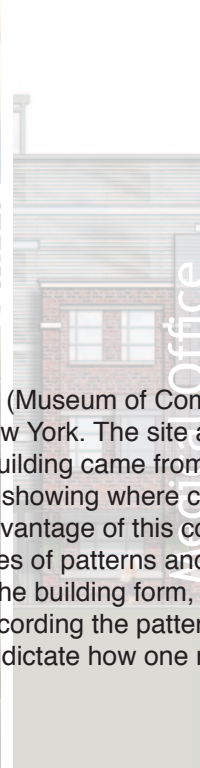
Hotel




Stop



texFAB



Office



Localo



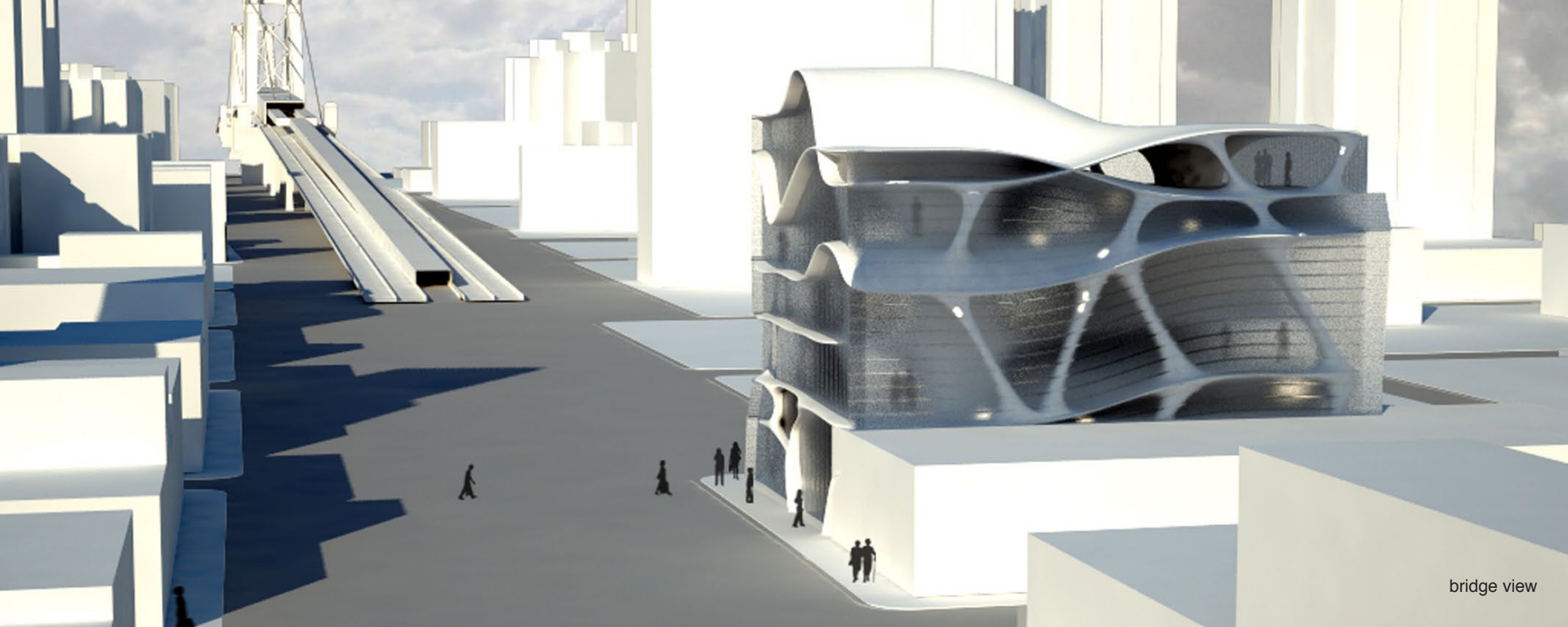
YellowJacket



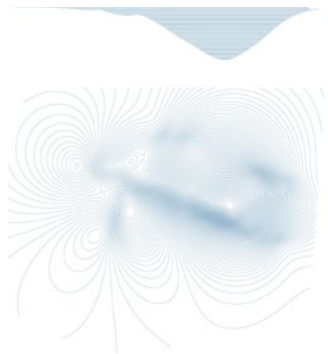
Baths

suckerPUNCH design competition. MoCCA (Museum of Comic and Cartoon Art) required a larger museum space to house exhibits in the Lower East side of New York. The site acquired was an abandoned parking lot situated on a major roadway into the city. The concept for the building came from the urban fabric of the city itself. Isopotential maps are a measure of electrostatic potential in space, showing where charged particles might interact using equipotential lines. By creating a grasshopper definition to take advantage of this concept, a series of contour maps were created based on different parameters. The maps display a series of patterns and networks in the Lower East Side not otherwise seen. These contour maps were then used to generate the building form, thus creating a micro-macro relationship between the building and the Lower East Side. The building is recording the pattern of the city at a smaller, scaled down experience. The patterns and networks generated by the maps dictate how one moves through the building.

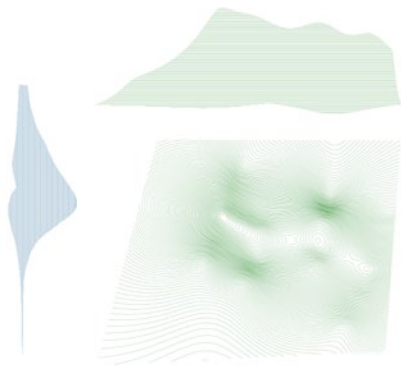
Facade Restoration



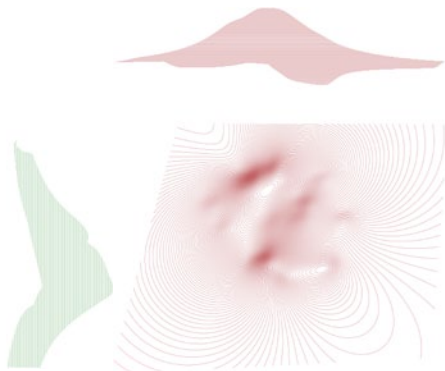
bridge view



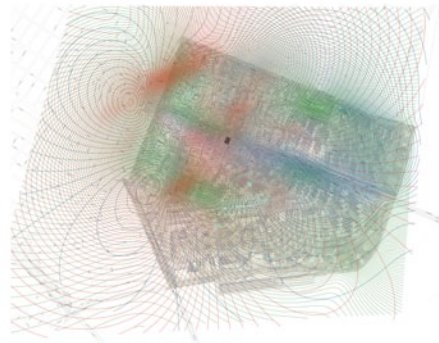
traffic



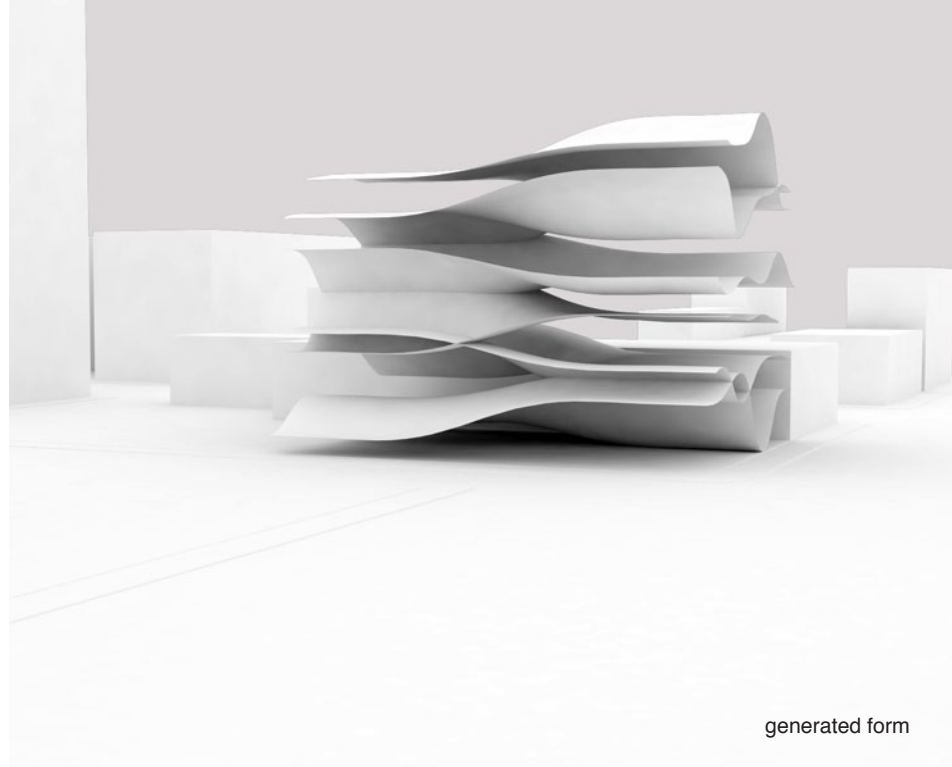
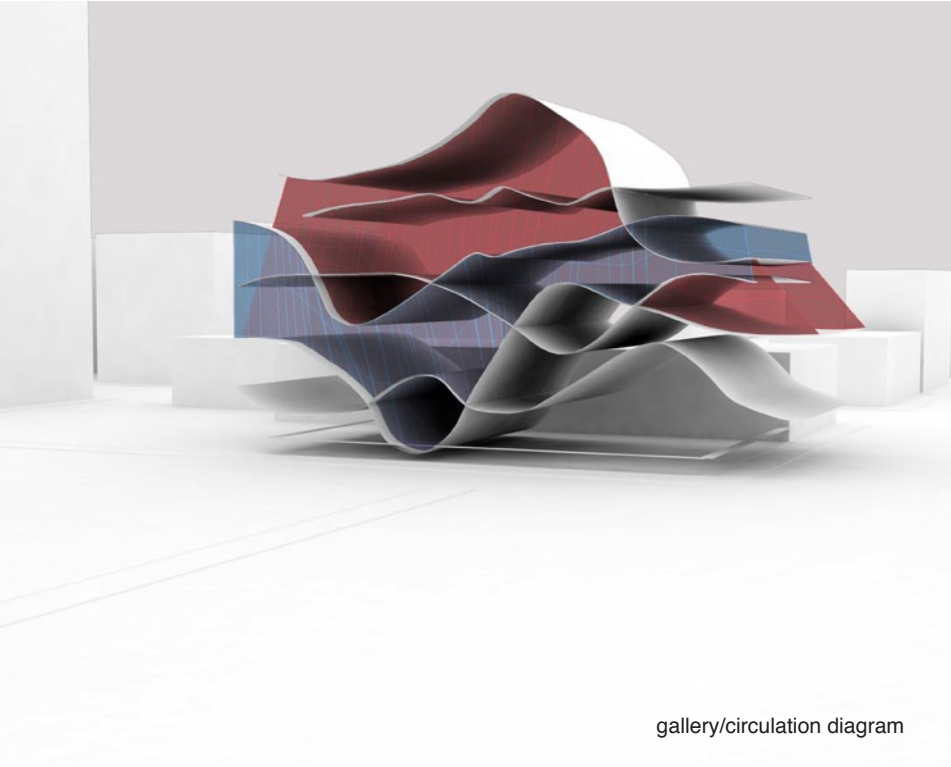
green space



art galleries



isopotential map

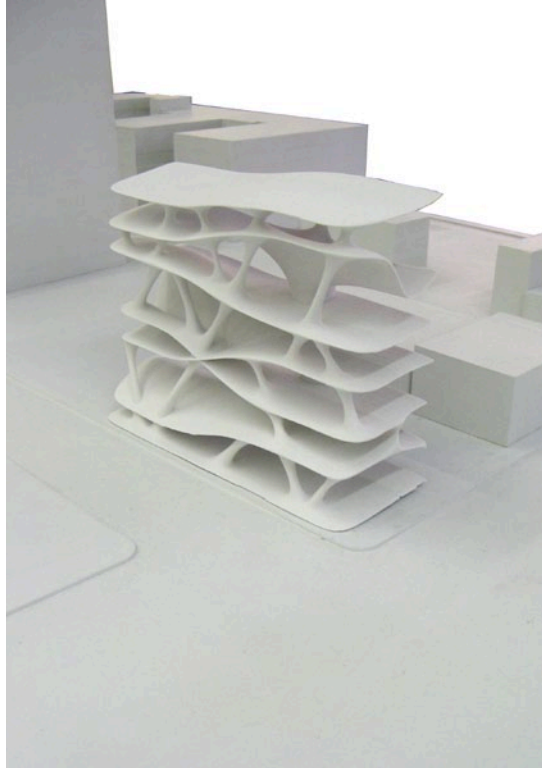
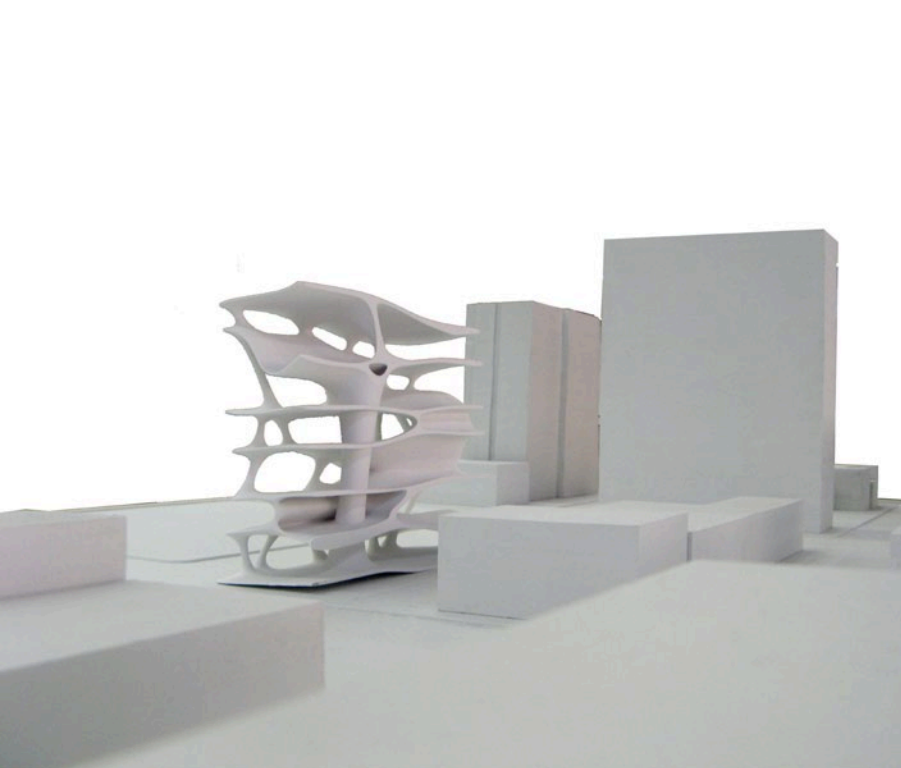




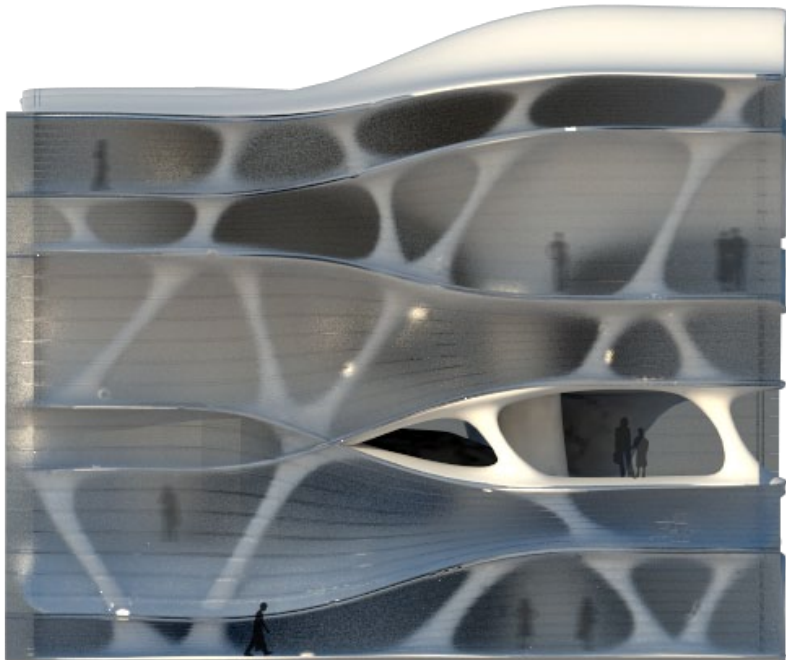
gallery space



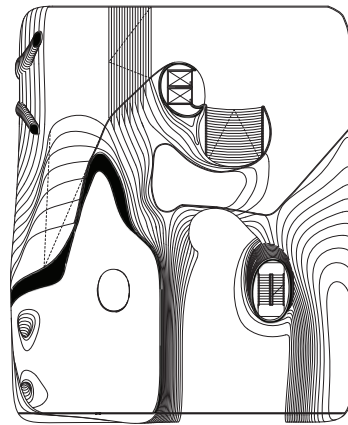
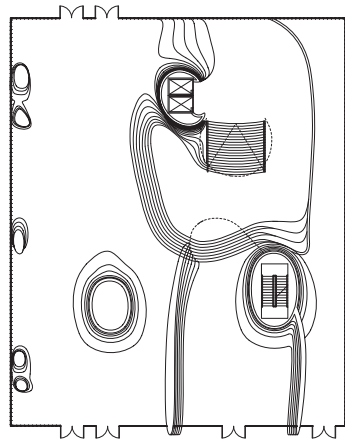
entry



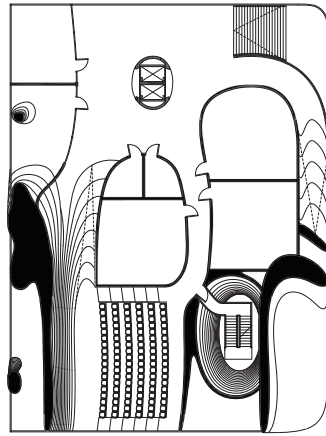
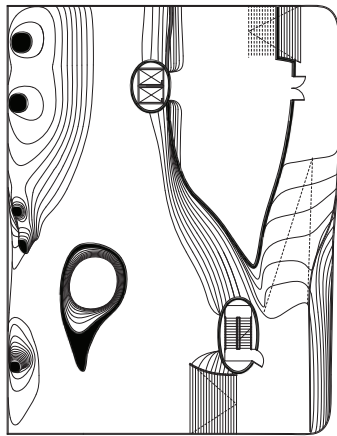
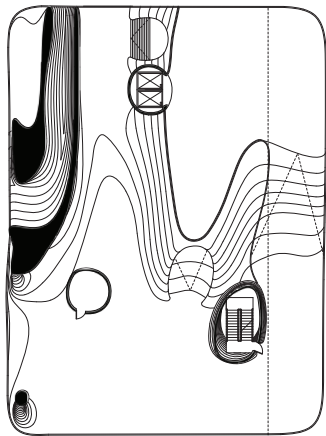
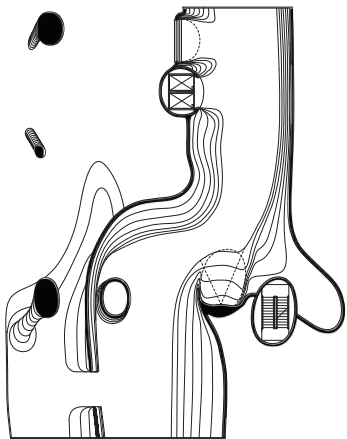
3D print model



elevation



plans





suckerPUNCH



Hotel



Next Stop



texFAB



Medical Office



Mexico City Zocalo



YellowJacket



Houston Baths

The site for the hotel was situated adjacent to Love Park in Philadelphia, PA. The hotel as an institution and how architecture can define and reinforce this idea was the driving concept behind the hotel. Program requirements included 80 hotel rooms and 50 timeshare units.

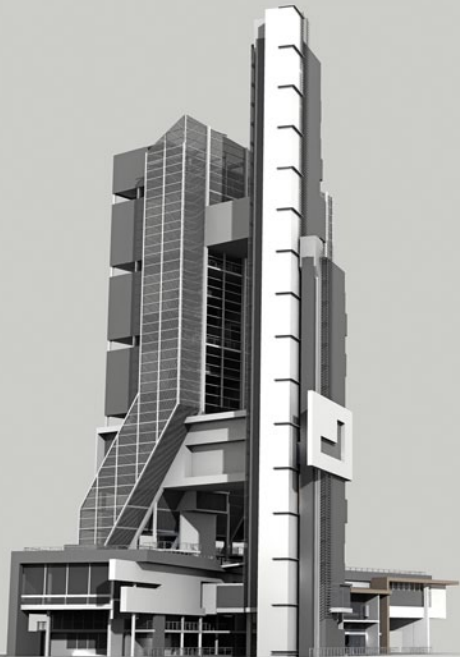
Facade Restoration



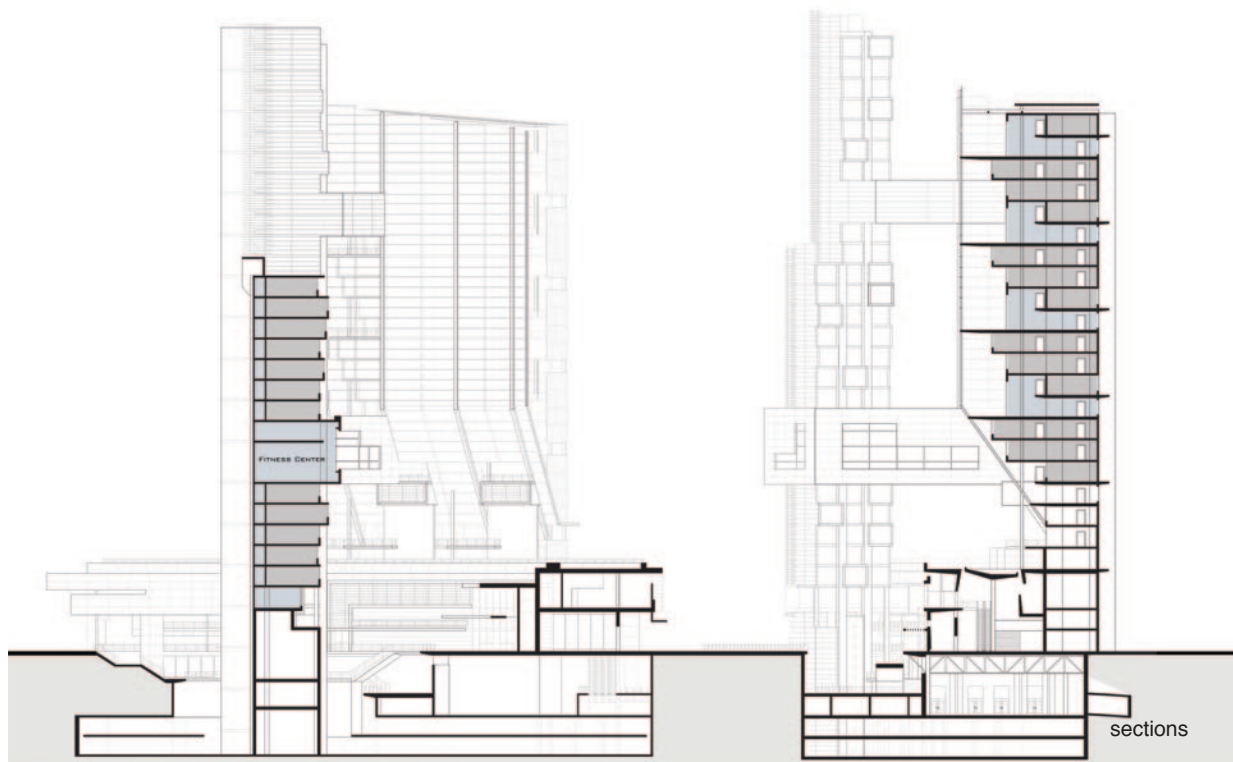
restaurant



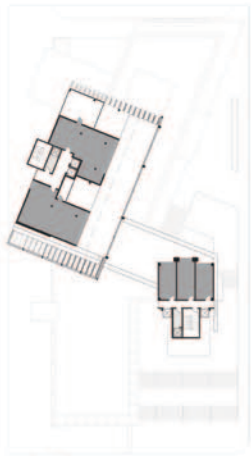
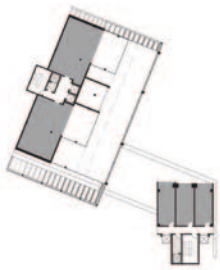
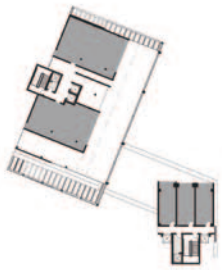




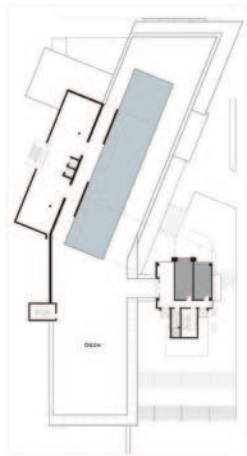
view from love park



sections



TYPICAL ROOM LAYOUT



POOL DECK



SECOND FLOOR



LOBBY FLOOR



BALLROOM

suckerPUNCH

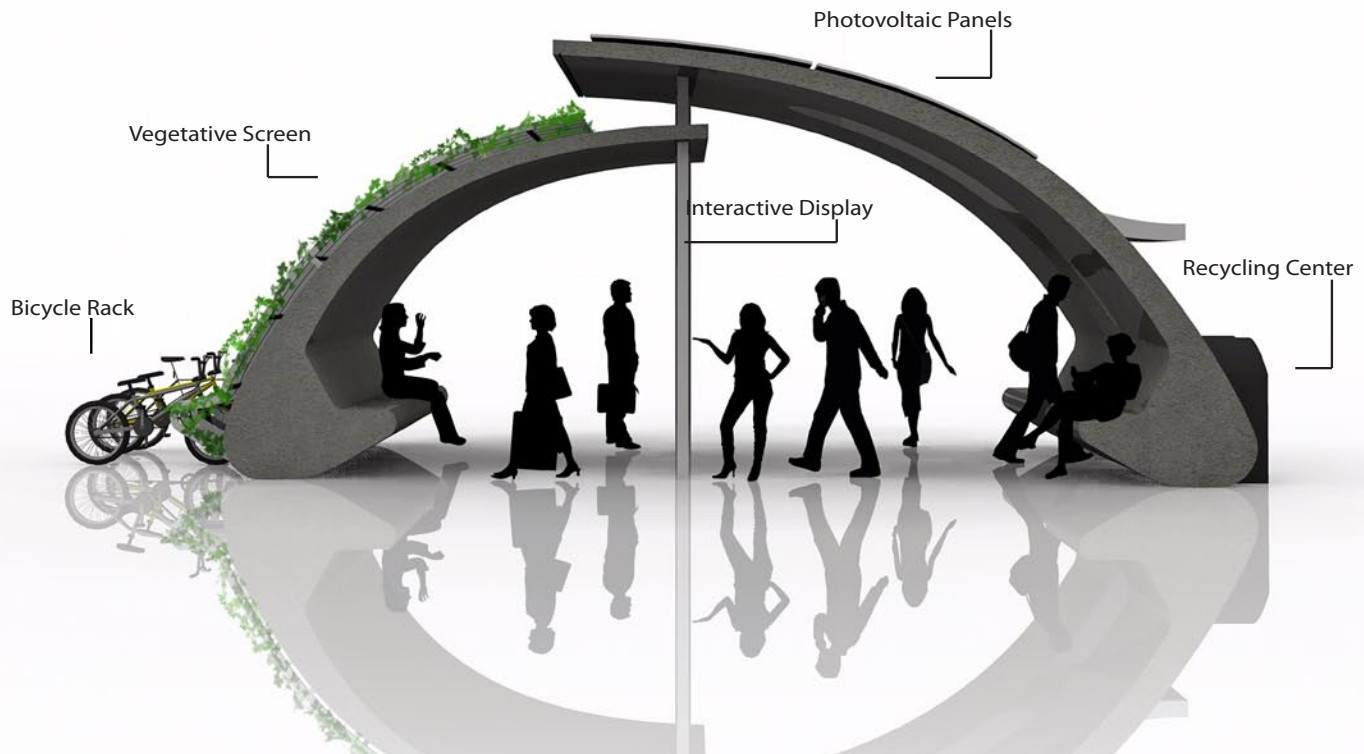
Hotel

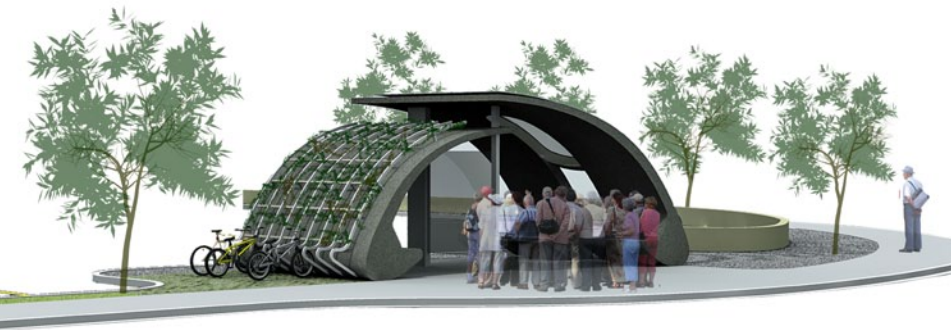
Next Stop

Next Stop Design competition to design a bus stop for the University of Utah. The two separate curved precast concrete forms create a shelter for the interactive display and pedestrians below. The shape helps remove water runoff during the summer and snow during the winter. Designed to be two separate entities, the forms can be separated so that only one may be used where space constraints or low traffic density exist. An integrated bicycle rack brings together two different types of transportation. The rack doubles as a vegetative screen which filters sunlight and displays the changing of the seasons. Amorphous silicon photovoltaic panels feed the grid during the day to offset the cost of powering the lighting system at night. To further save, the bus shelter uses a motion sensor system to power down the displays and lights if no movement is detected for 5 minutes. A built-in recycling center beneath the panels encourages riders, as well as passers-by, to recycle.

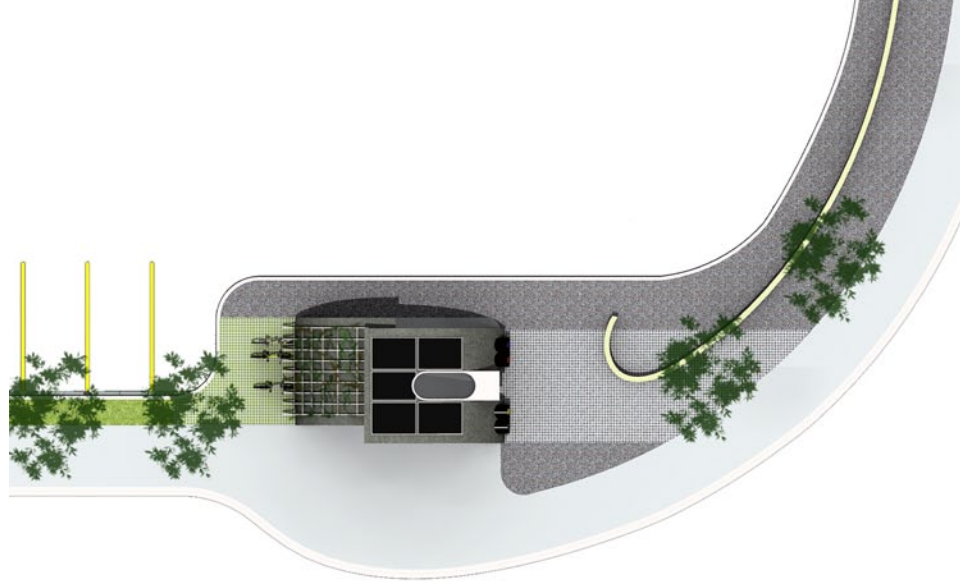
YellowJacket

Facade Restoration

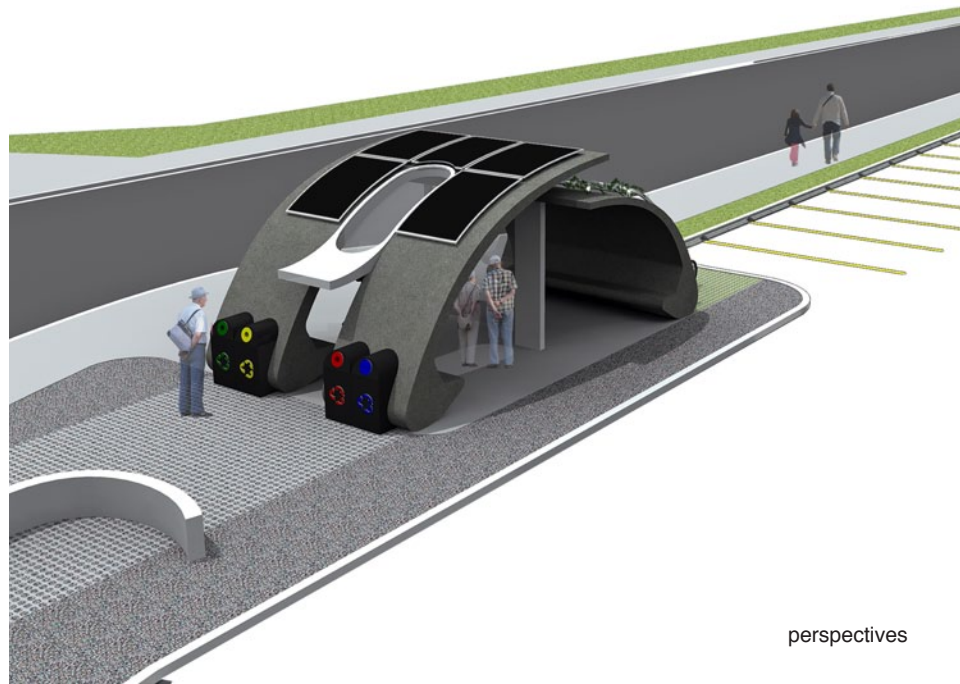
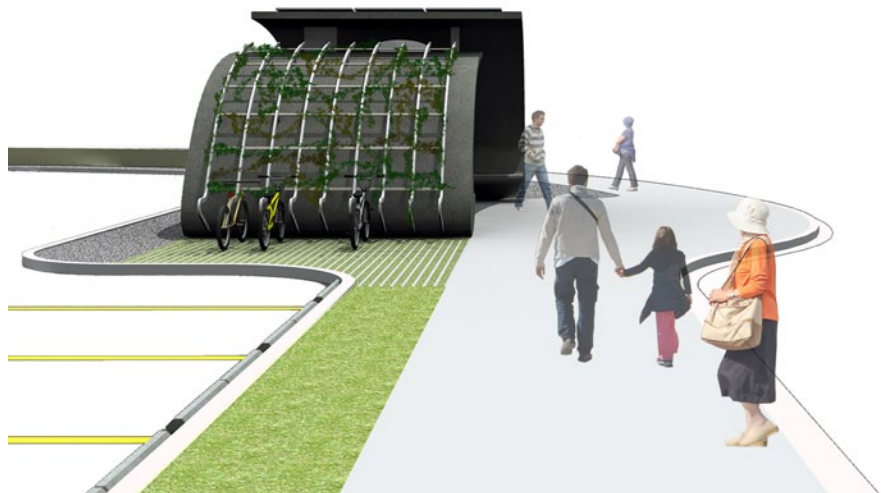




view from street



site plan



perspectives

suckerPUNCH

Hotel

Next Stop

texFAB

Office

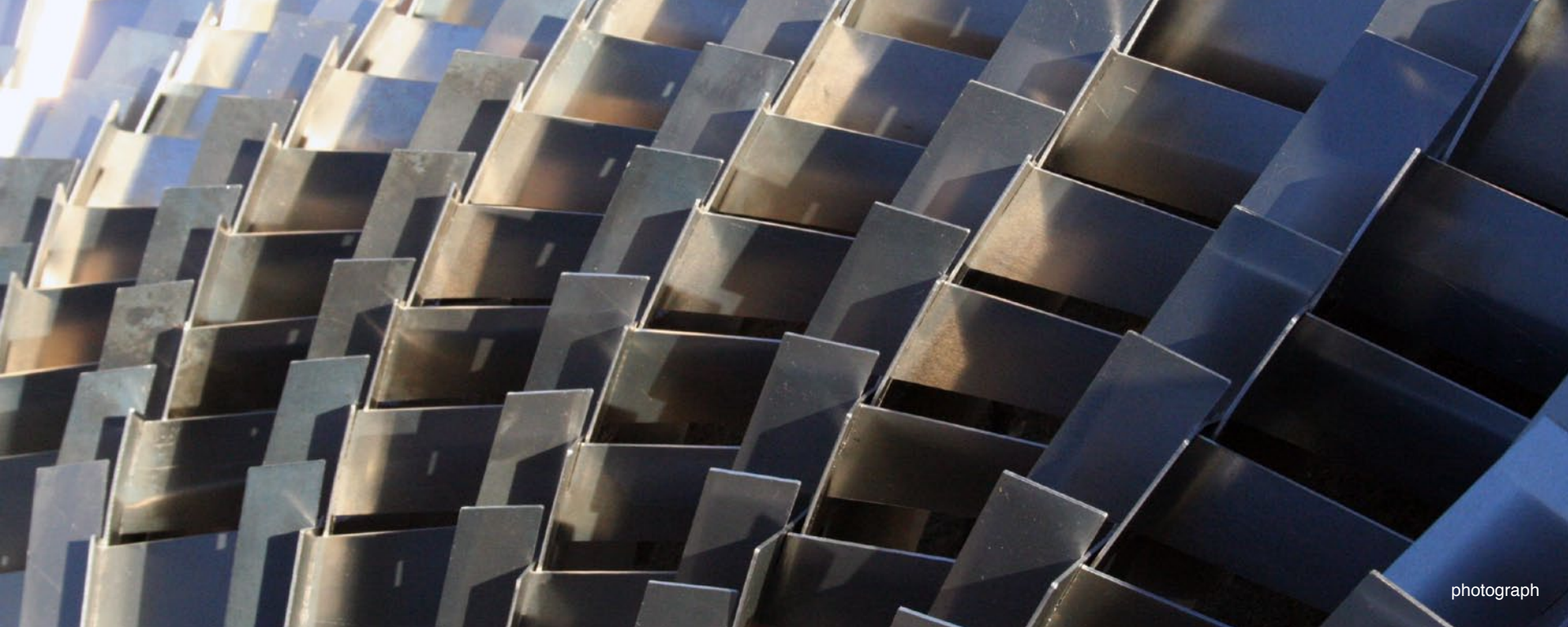
Localo

YellowJacket

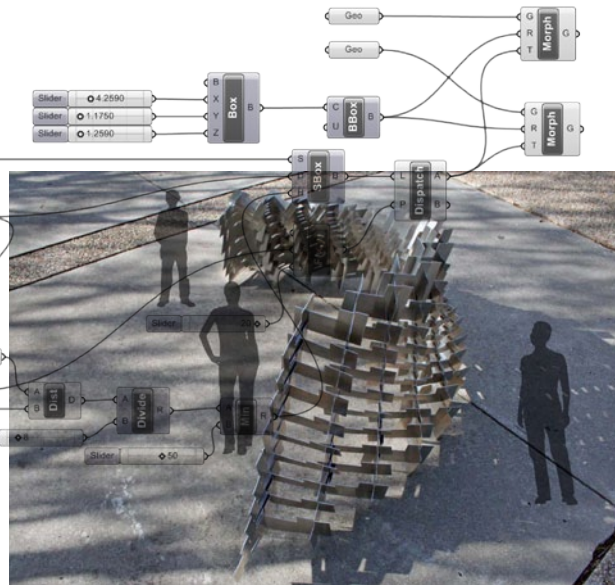
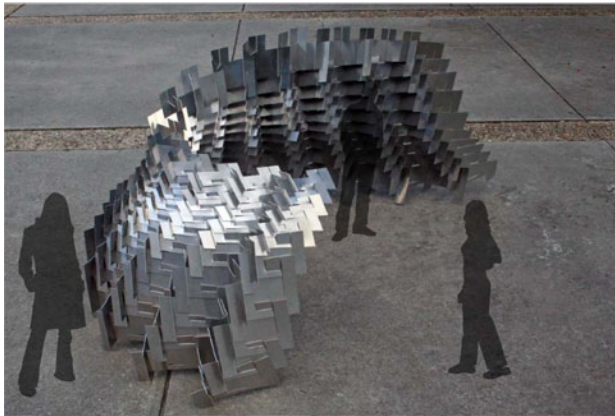
Baths

Facade Restoration

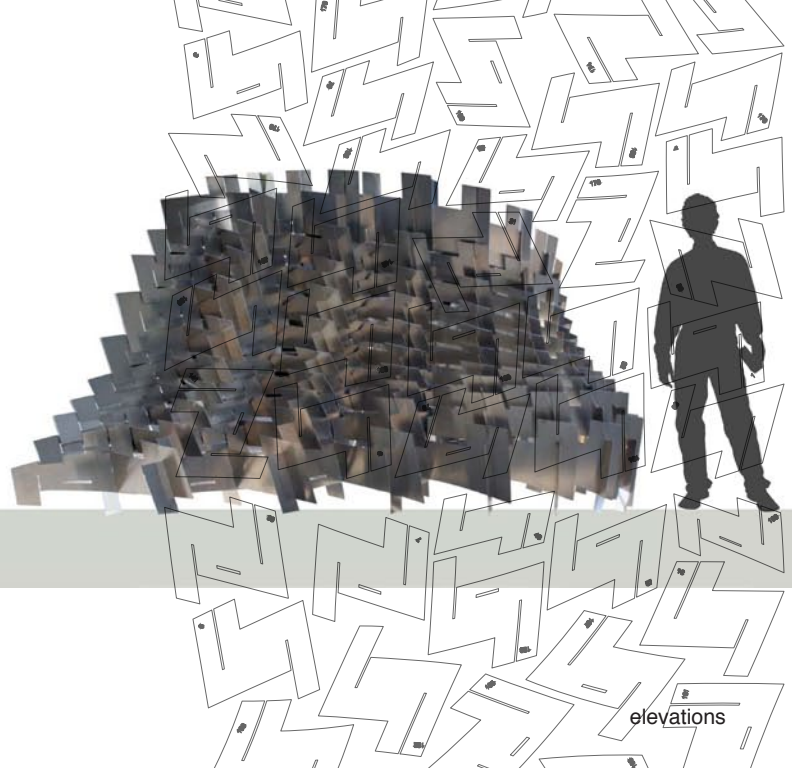
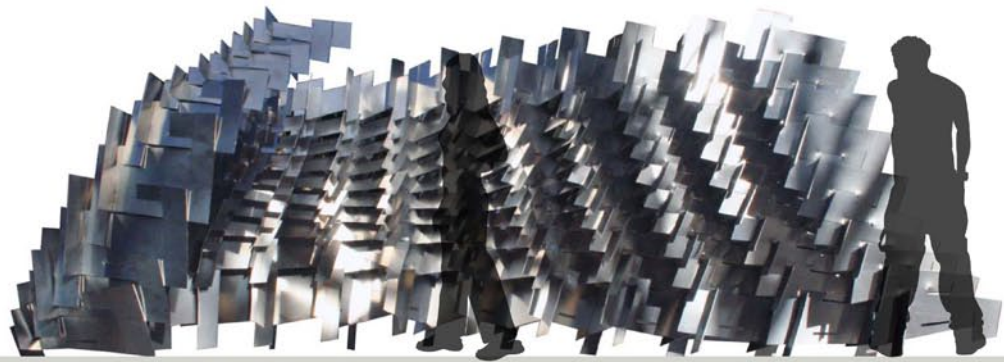
tex-fab Repeat digital fabrication competition. Requirements were to design a connection that can be replicated and manipulated through parametric modeling. Using a friction joint connection, each panel slips into the adjacent panel, forming rows. Each row slips into the row below, locking them in place while also creating openings within the surface. Through the use of parametric modeling, these vents allow the system to control and buffer light, wind, and water and can be customized for any context. The installation is laser cut from .050 aluminum sheets.



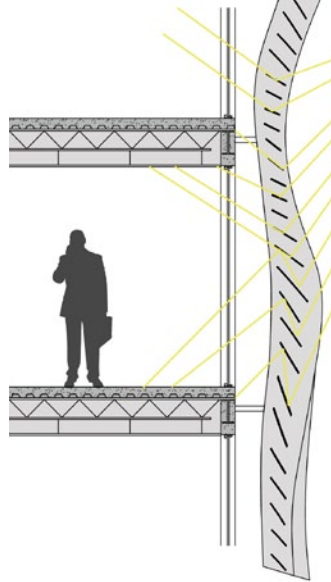
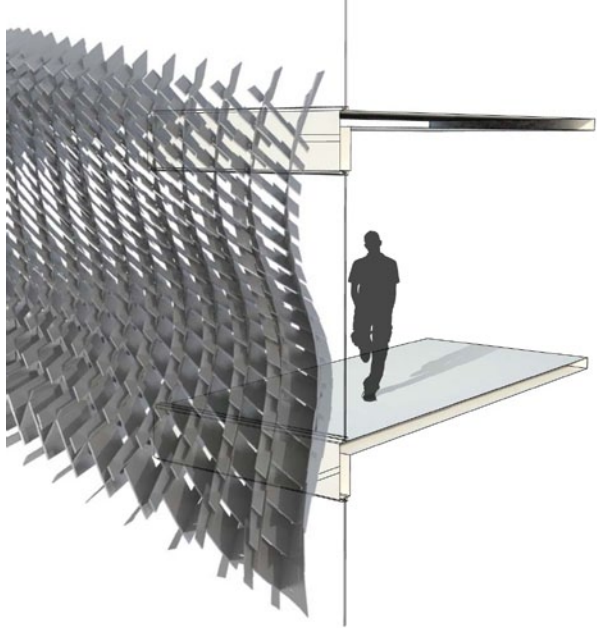
photograph



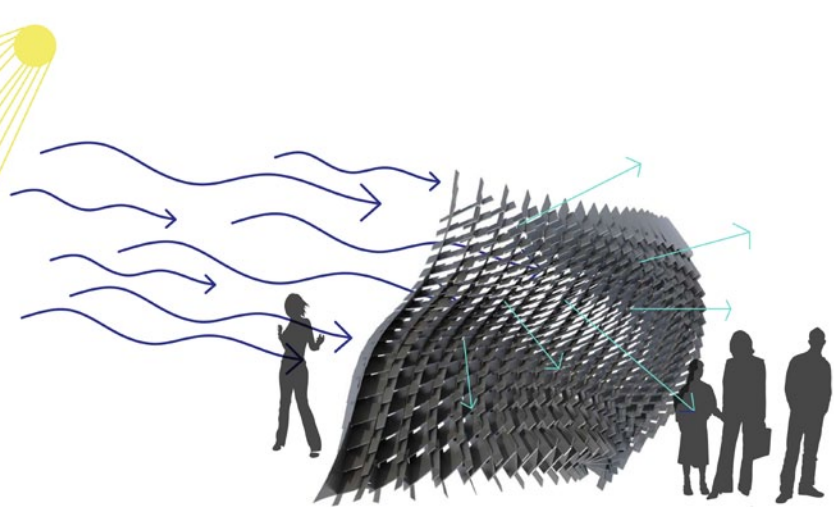
perspectives



elevations



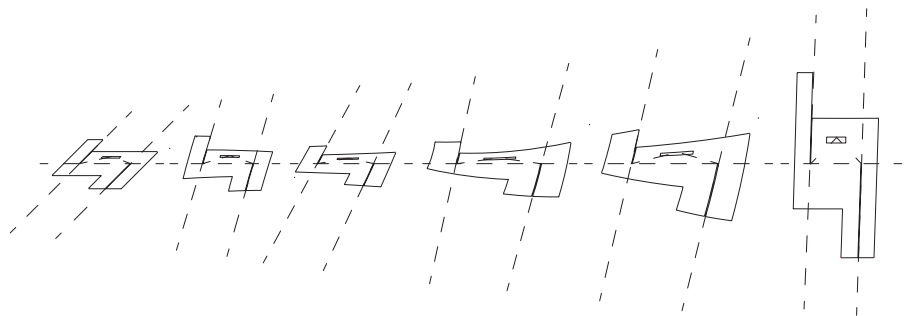
light redirect



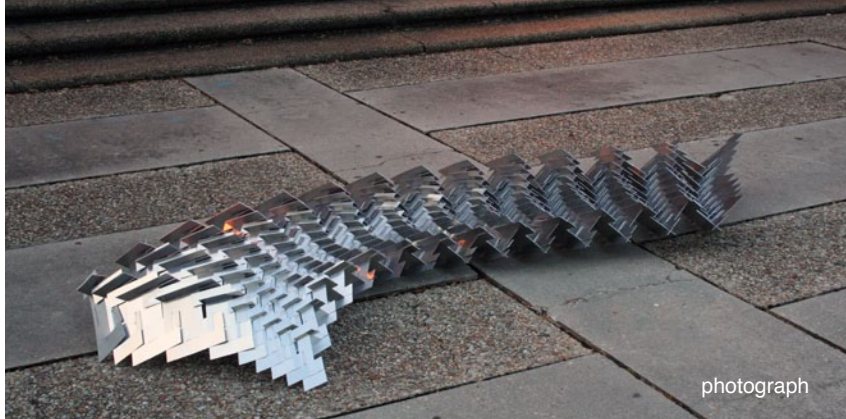
wind redirect

The system creates a relationship between the building skin and the buildings programmatic usage. The parameterization of the panels creates a skin that directly responds to the illumination requirements of the different programs.

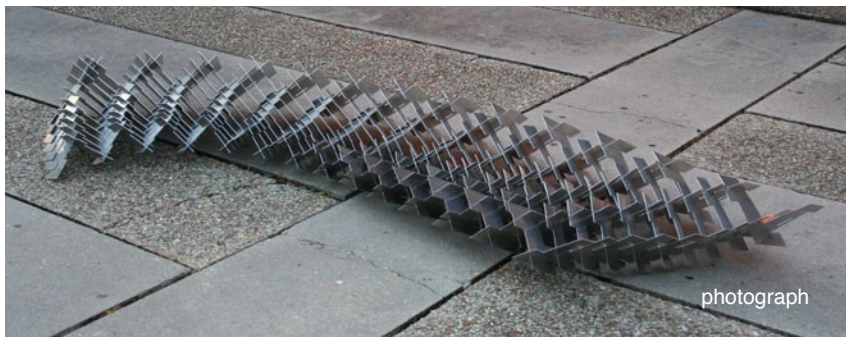
The system acts as a wind screen for large urban areas. The wall acts as a buffer to calm and redirect the wind thus creating a microclimate.



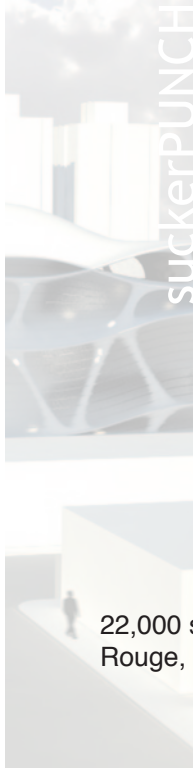
component variation



photograph



photograph



suckerPUNCH

22,000 sqft medical lease office building in Baton Rouge, Louisiana located adjacent to I-12.



Hotel



Next Stop



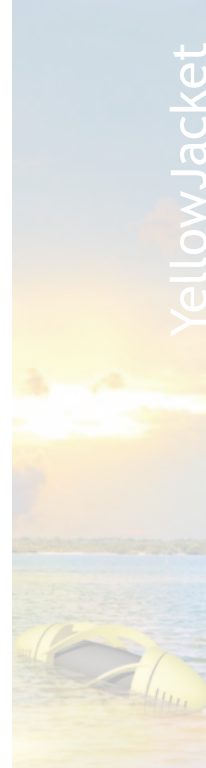
texFAB



Medical Office



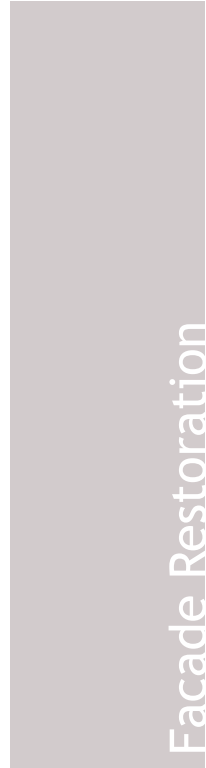
Mexico City Zocalo



YellowJacket



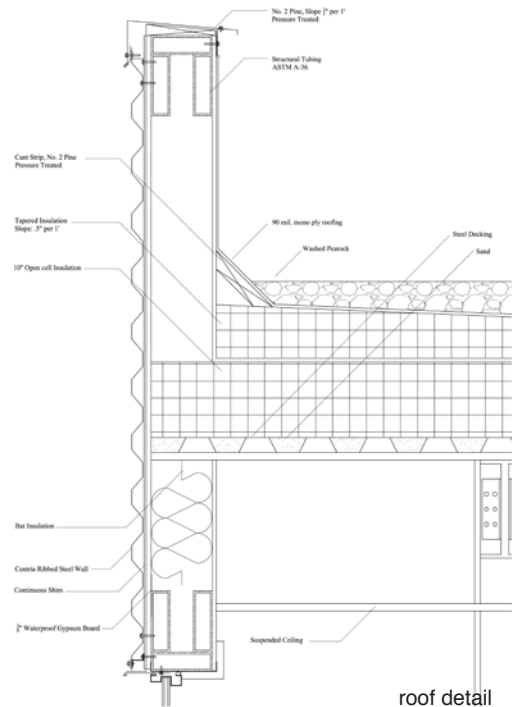
Houston Baths



Facade Restoration

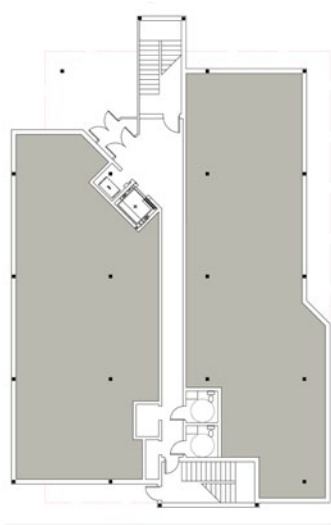


elevation

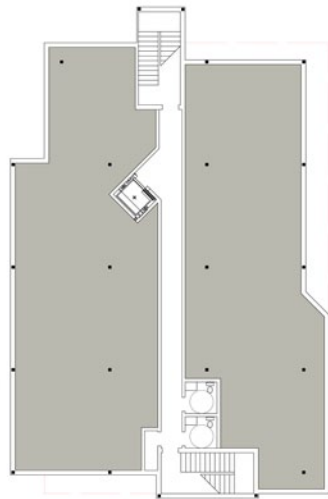


roof detail

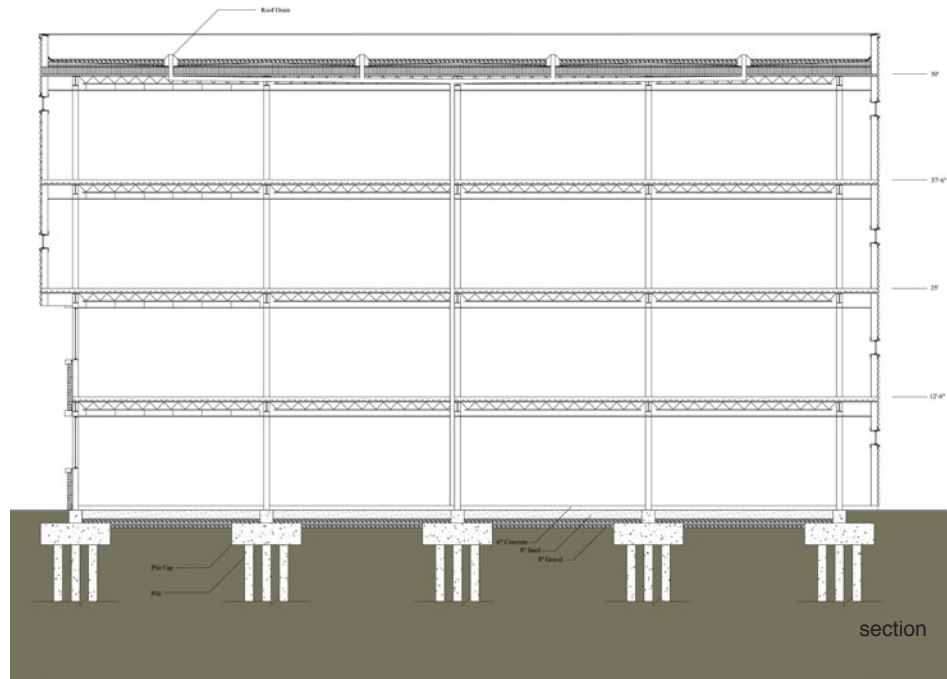




entry level



second level



section

Visitor center for Templo Mayor in Mexico City, Mexico. The site was situated in the Zocalo, adjacent to the temple ruins. The building is juxtaposed against the ancient buildings of the Zocalo in order to draw visitors in and orient them to the area.

suckerPUNCH

Hotel

Next Stop

texFAB

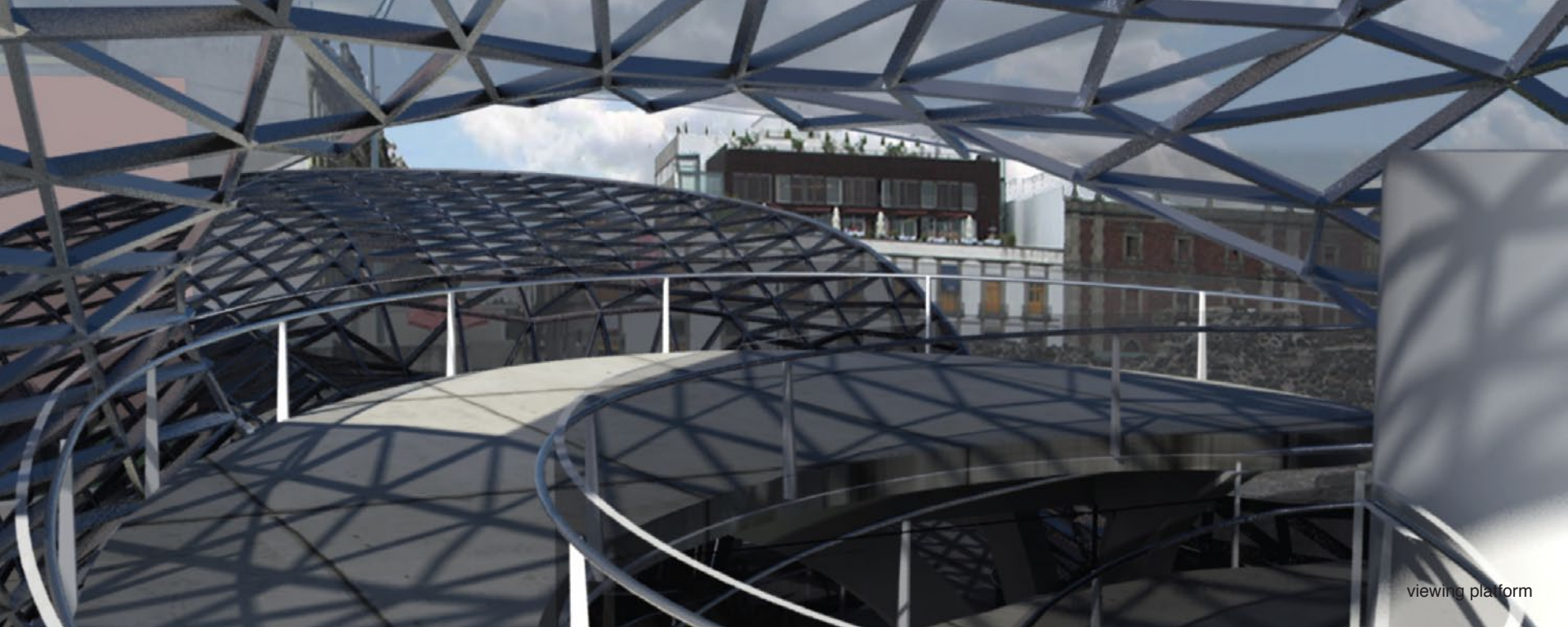
Medical Office

Mexico City Zocalo

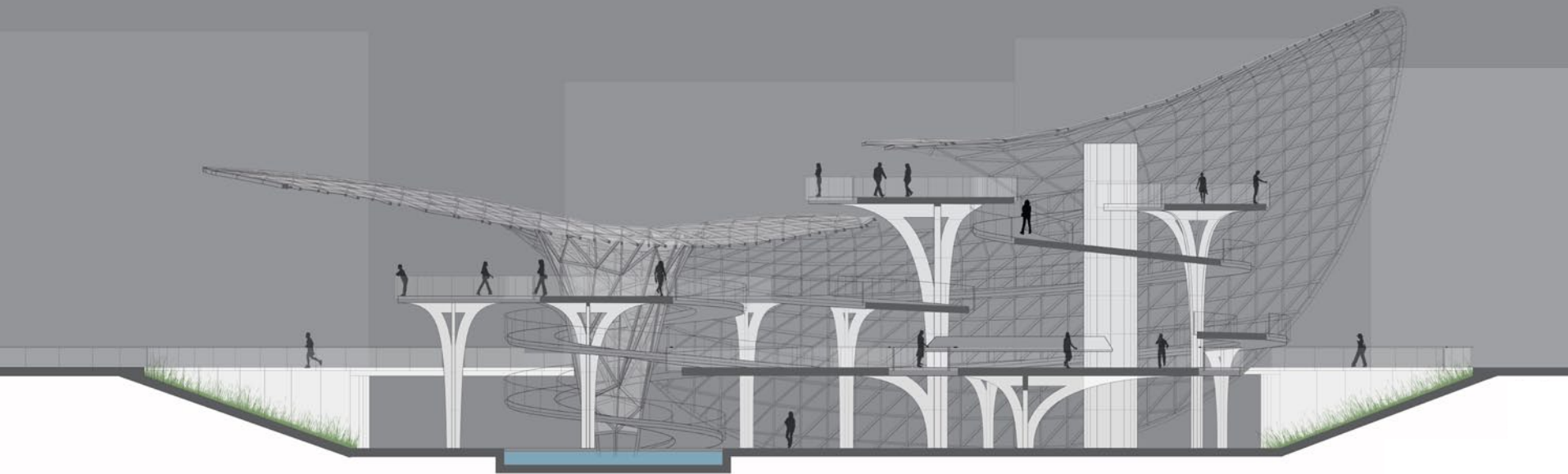
YellowJacket

Houston Baths

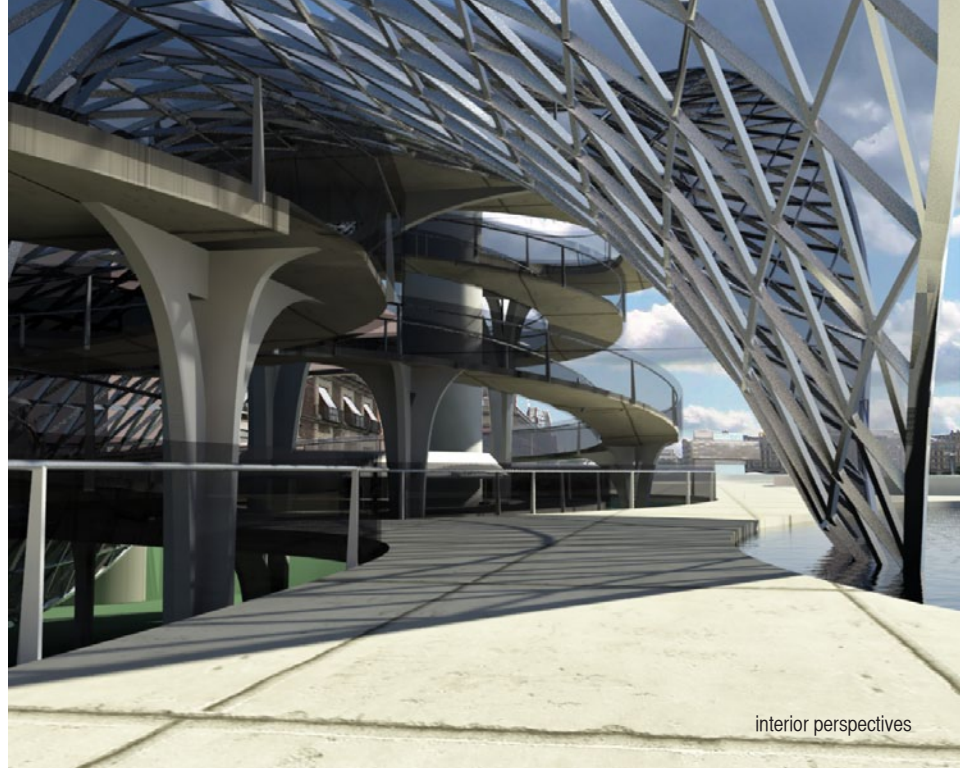
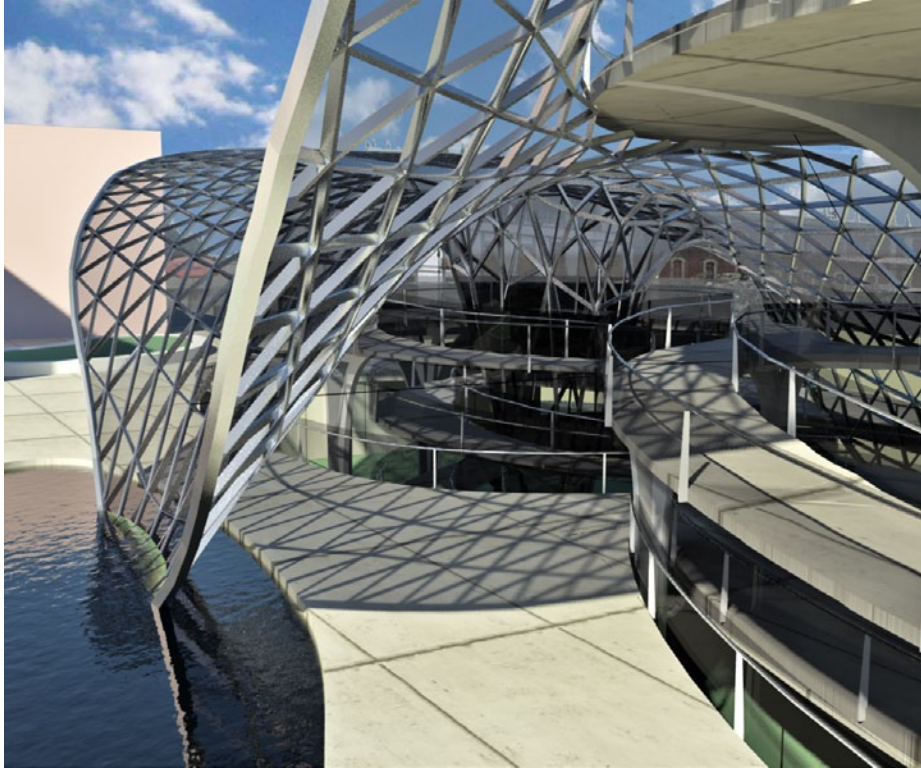
Facade Restoration



viewing platform



transverse section



interior perspectives

Louisiana has a unique tectonic culture that has developed over the years in response to the subtropical climate. How can an indigenous plant and a machine be merged together to create something new to solve a local problem? The YellowJacket is an autonomous robot equipped with a rotating nanosponge film used to capture containments humans have left in the Gulf and marshes. The vehicle has two main functions; it is able to skim and collect containments on the ocean surface, and to collect containments settling on the ocean floor. Active buoyancy control is used to allow the vehicle to move vertically in the water. While laying horizontally on the surface, the rotating fins drive the vehicle. While under the surface, the fins create a vortex effect, pulling contaminated water to the vehicle and running it over the nanosponge to be filtered. This technique would allow one vehicle to filter a larger area over time. The nanowires are made of potassium manganese oxide and clump together naturally. Because the membrane is mostly air, it functions like a sponge by drawing in liquid through capillary action. The nanofabric selectively absorbs large amounts of hydrophobic liquids without collecting any water. The oil can be removed by heating the material, which can then be used again and again.

Mexico City Zocalo



YellowJacket



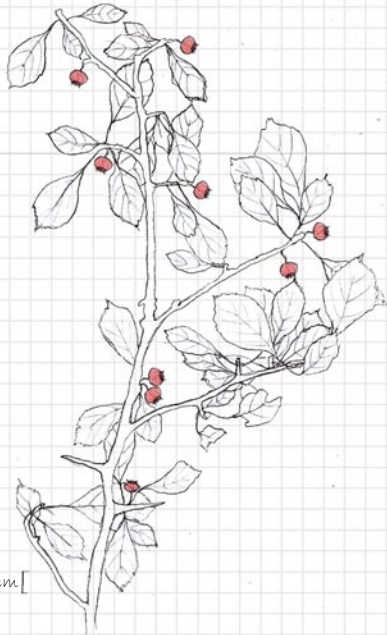
Houston Baths

Facade Restoration

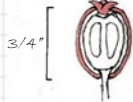


surface skimming

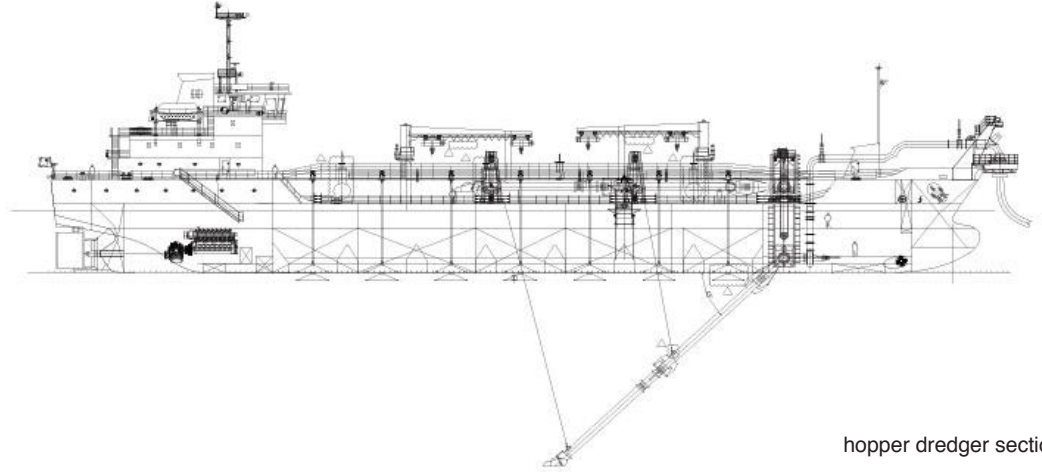
Crataegus Opaca / Riverflat Mayhaw



1 cm [

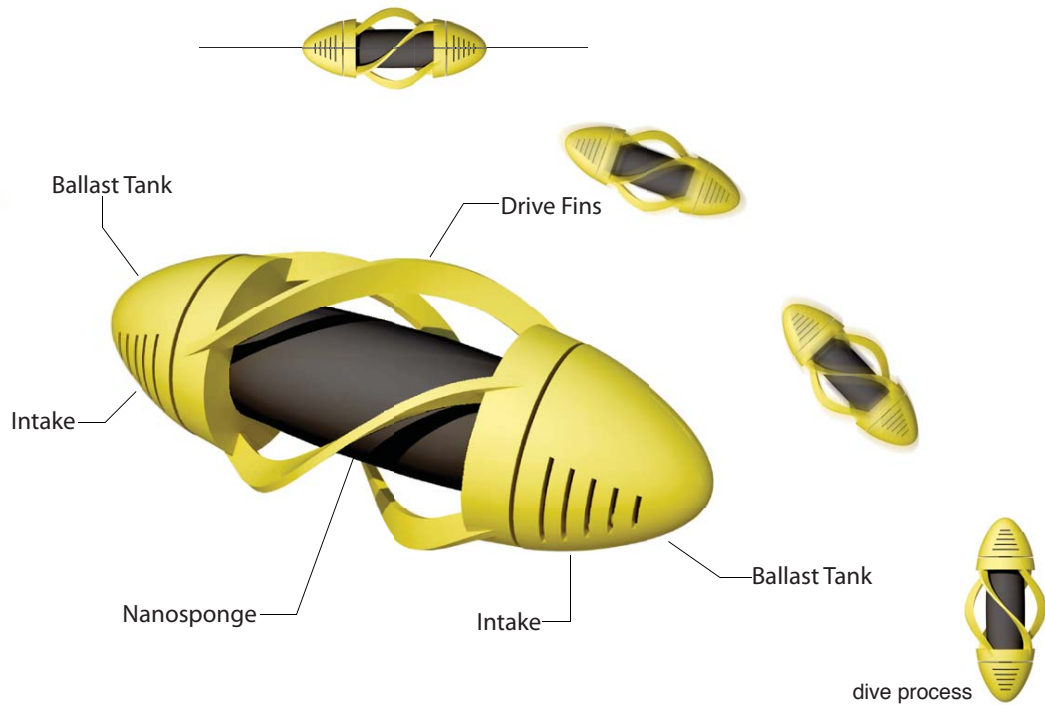
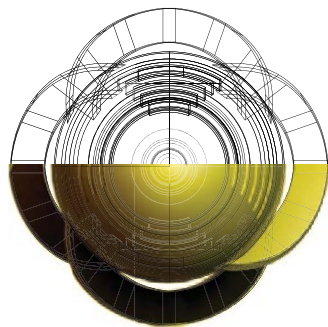
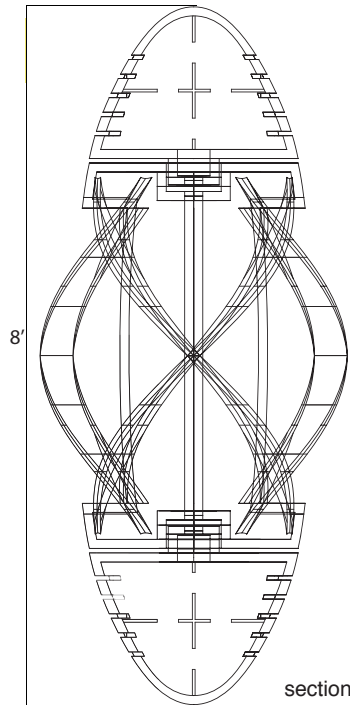


mayhaw analysis



hopper dredger section

The symmetrical structure of the Riverflat Mayhaw fruit combined with the hopper dredger's ability to store and remove unwanted material resulted in the creation of the YellowJacket.

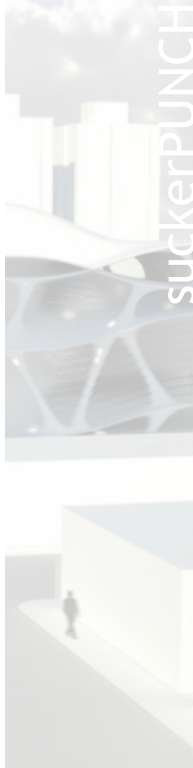




underwater cleanup



3D print



suckerPUNCH



Hotel



Next Stop



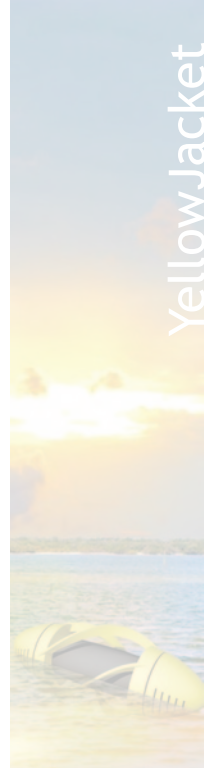
texFAB



Medical Office



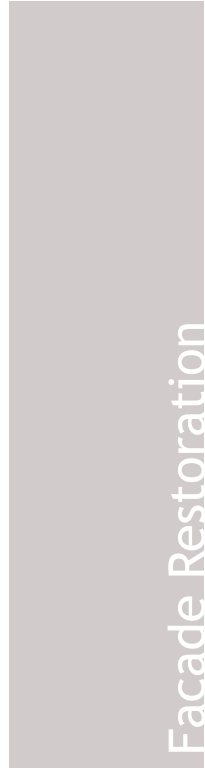
Mexico City Zocalo



YellowJacket

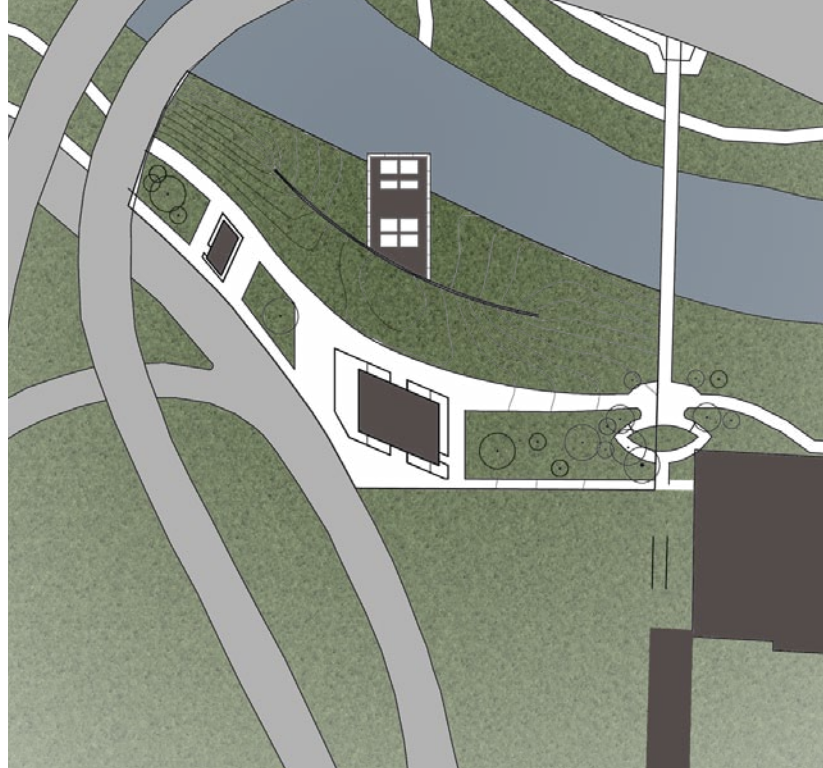
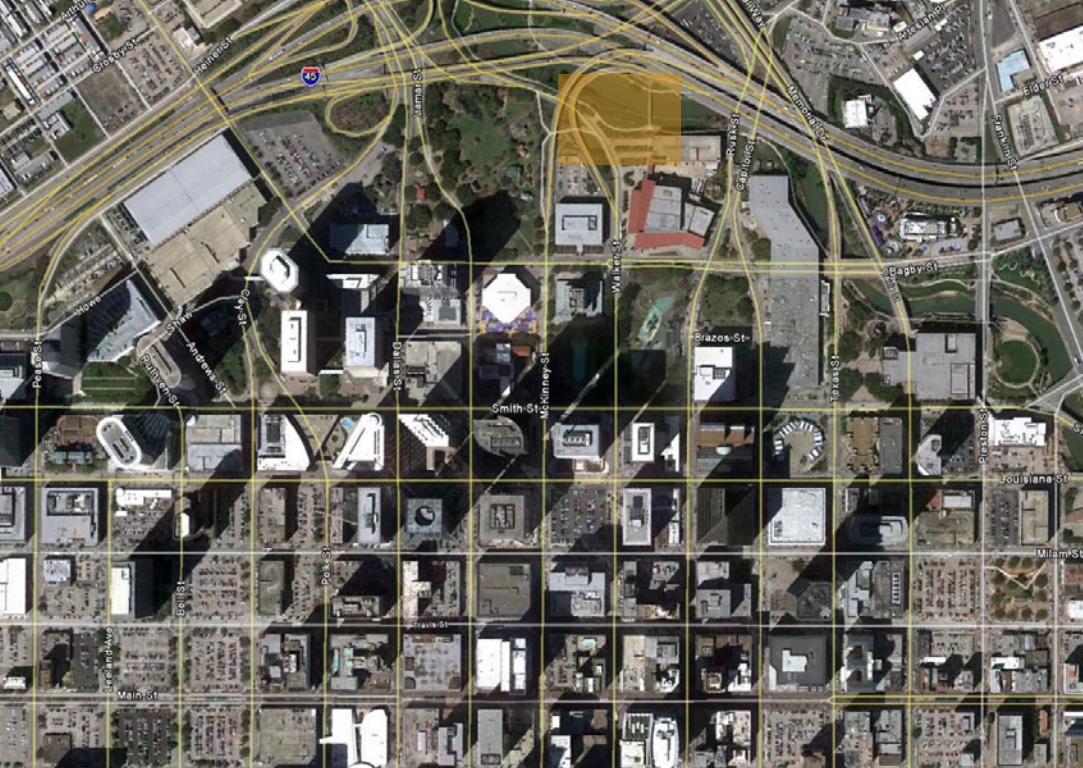


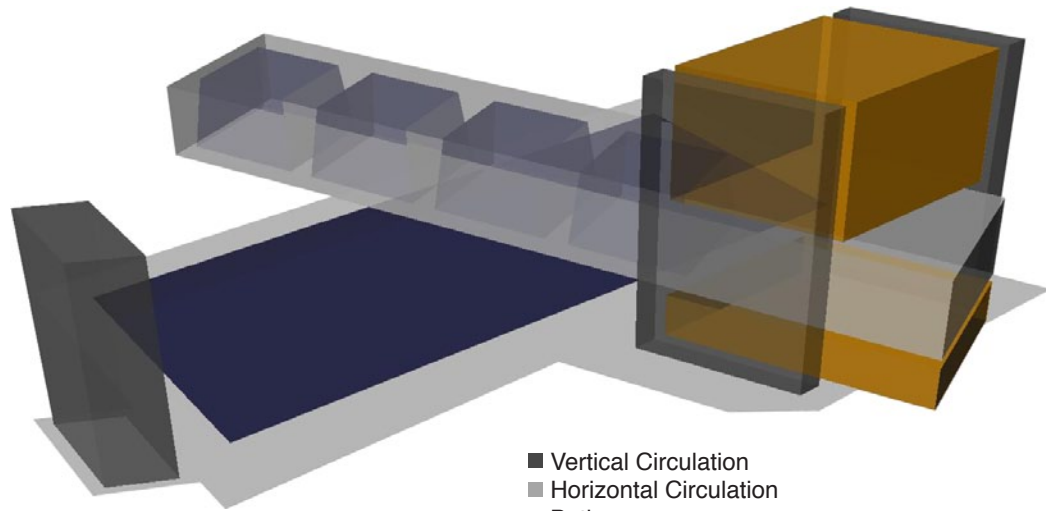
Houston Baths



Facade Restoration







- Vertical Circulation
- Horizontal Circulation
- Baths
- Natatorium
- Support

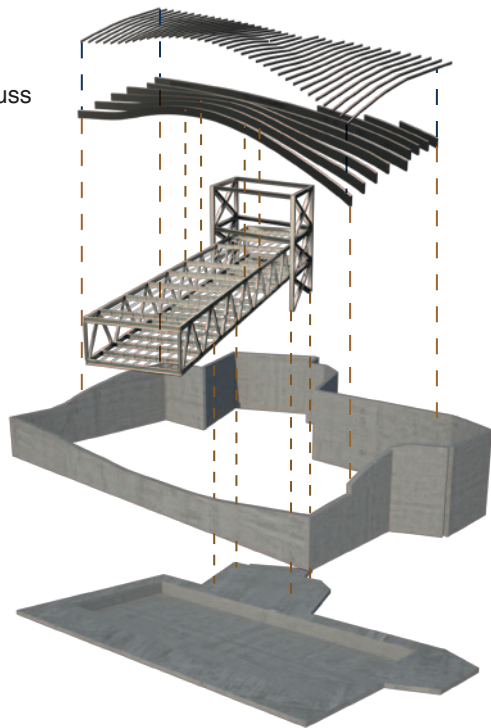
Steel I-Beams

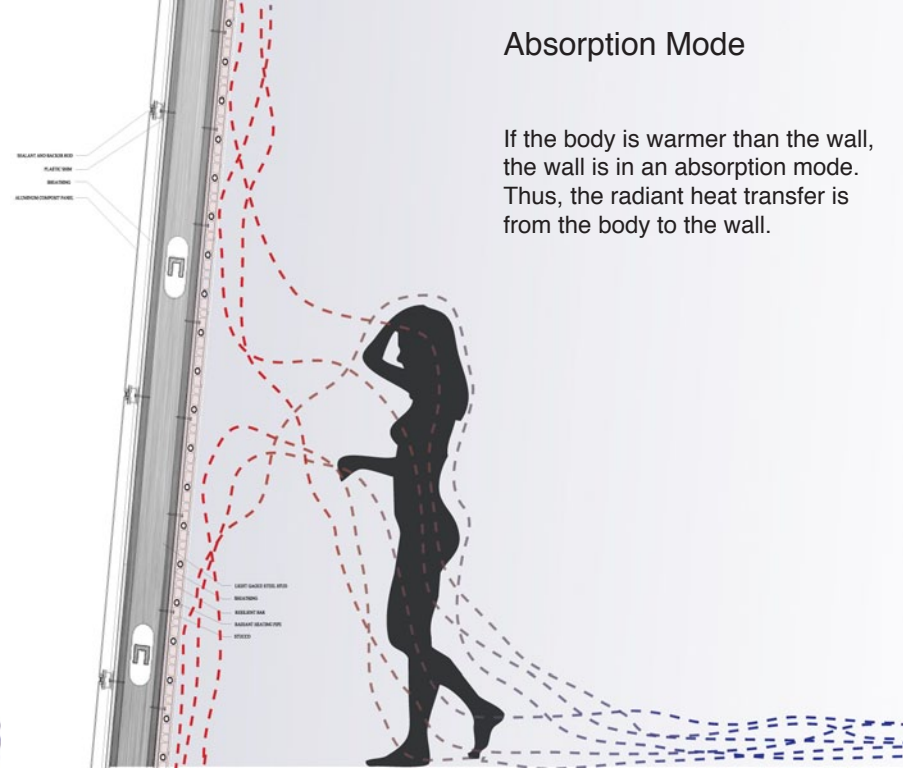
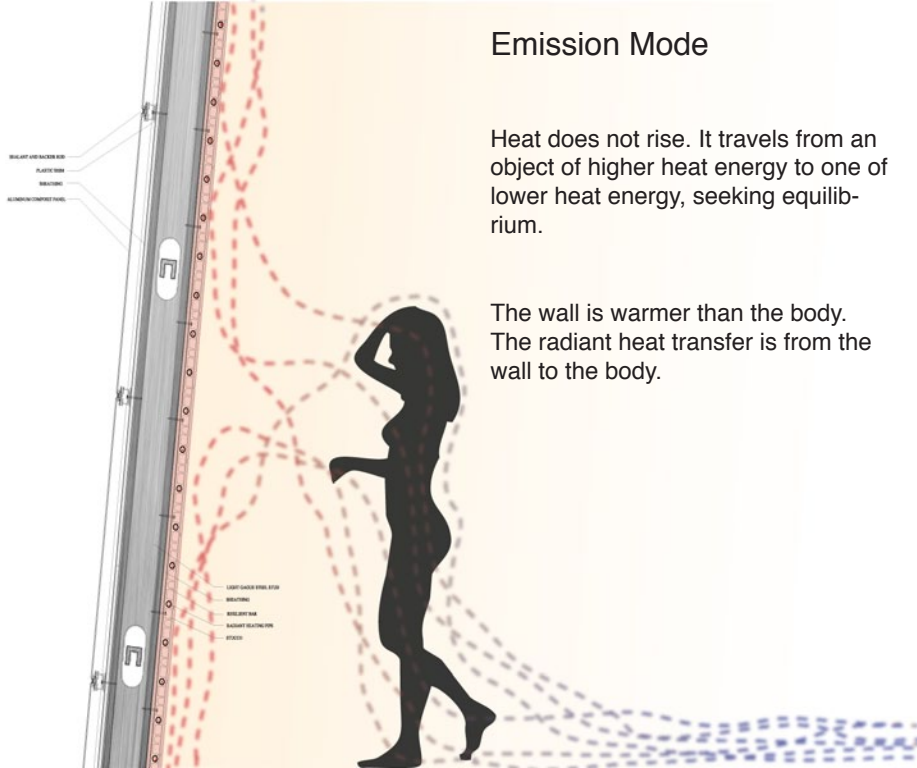
4' Deep Steel Truss

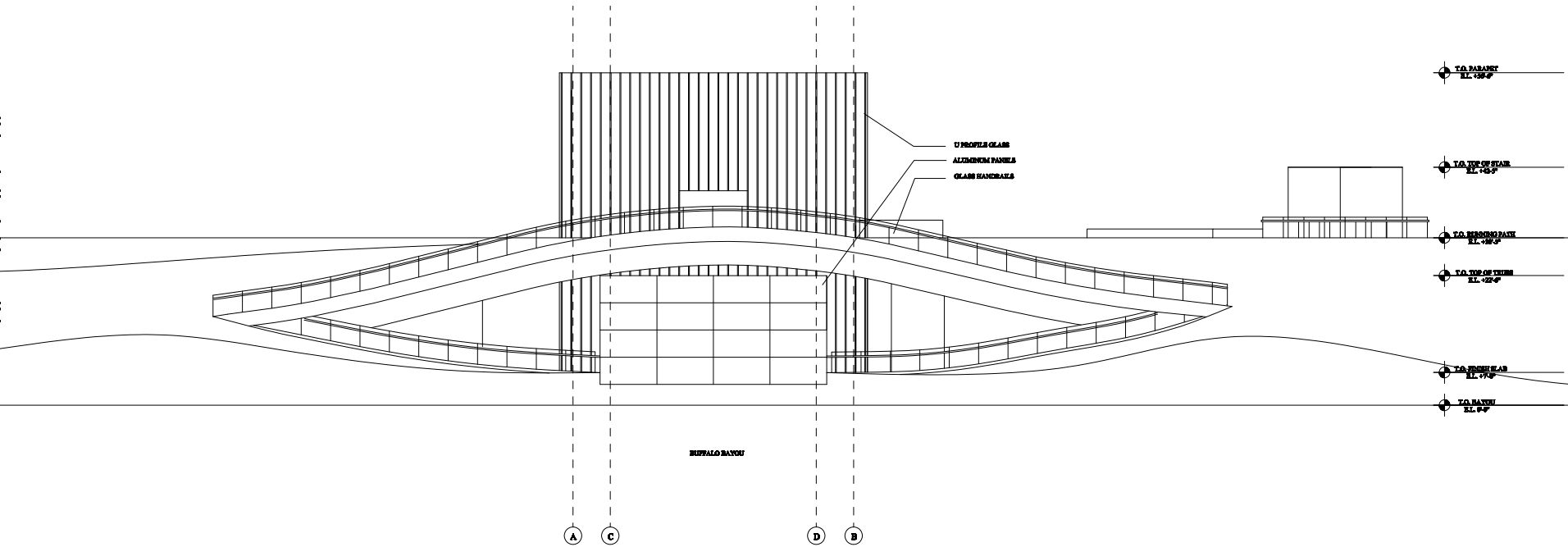
Steel Frame

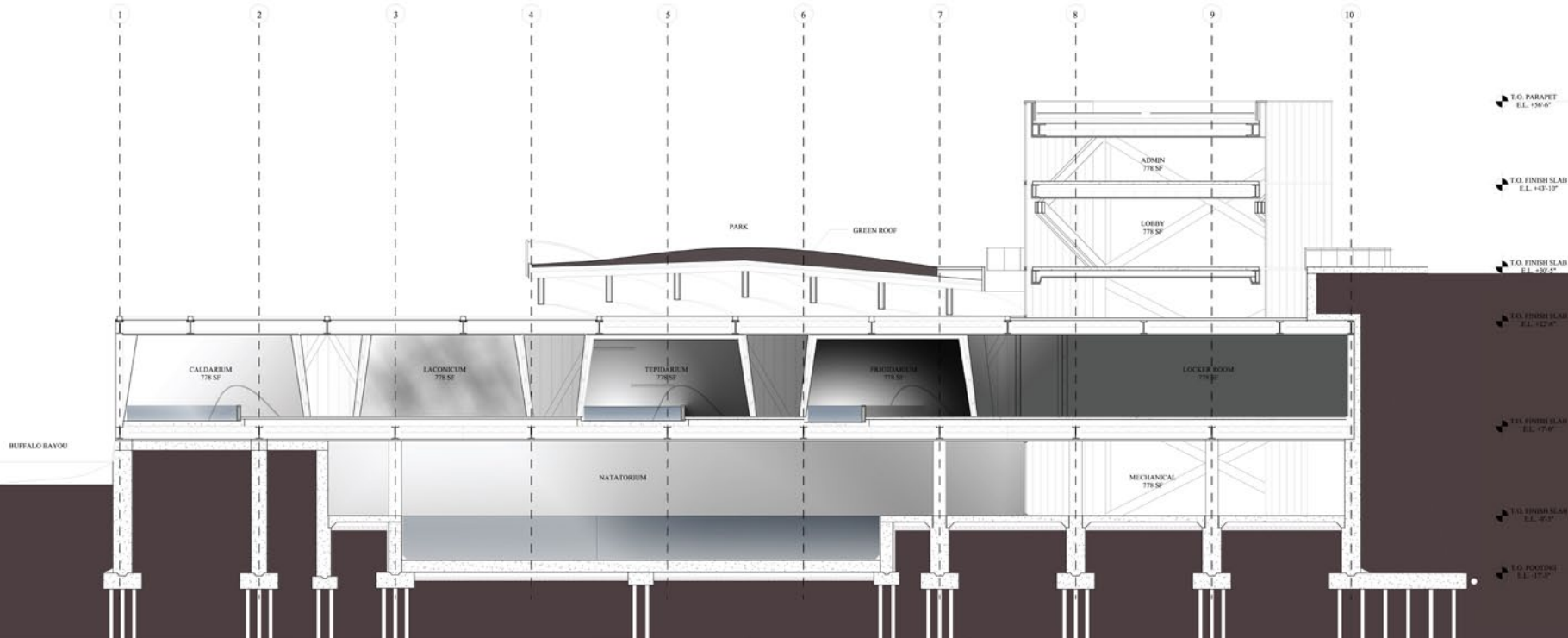
Retaining Walls

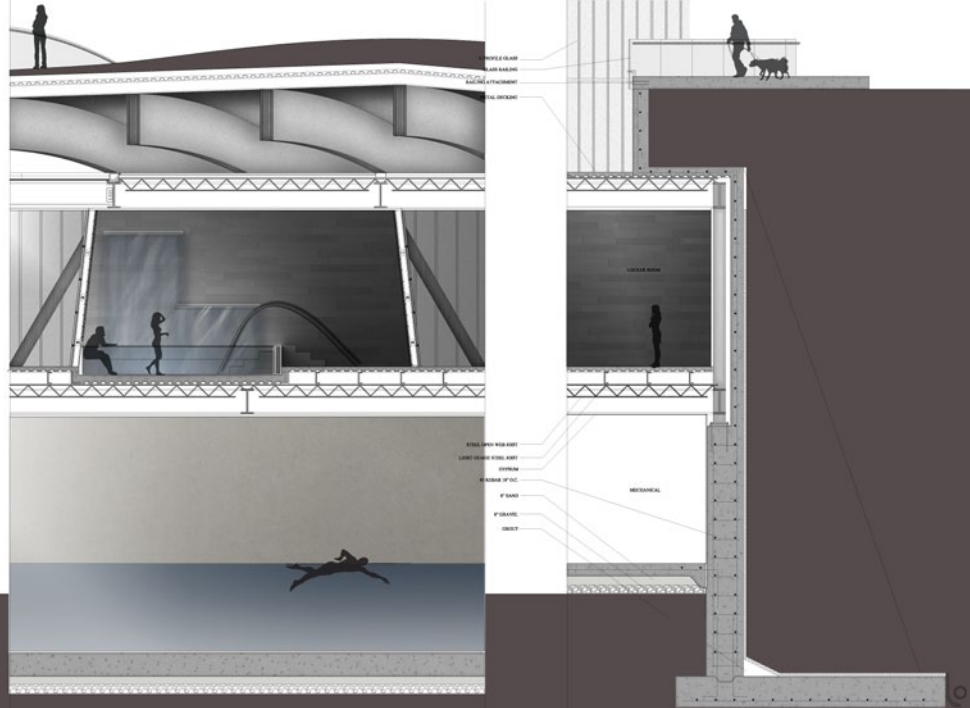
Slab



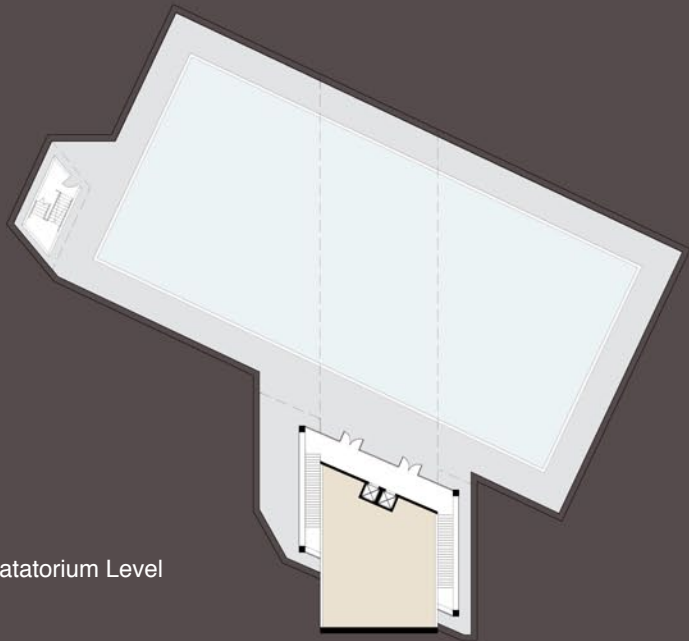




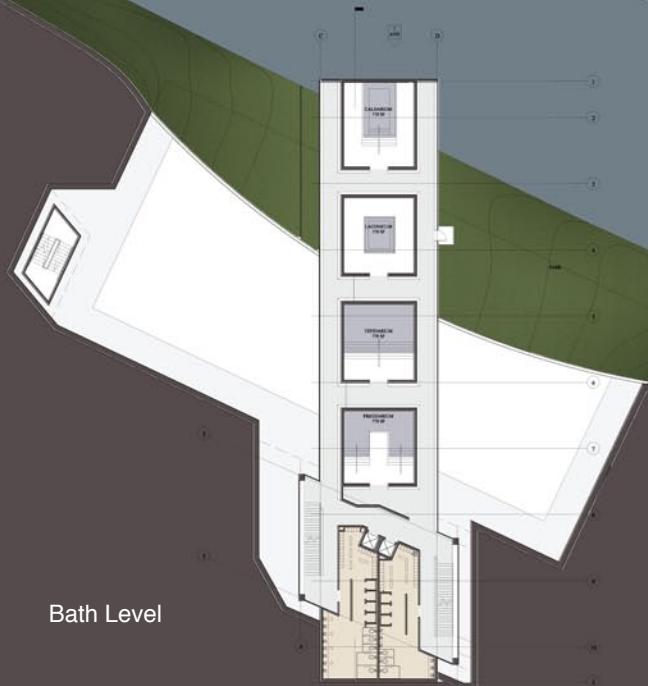




Natatorium Level



Bath Level





suckerPUNCH



Hotel



Next Stop



texFAB



Medical Office



Mexico City Zocalo



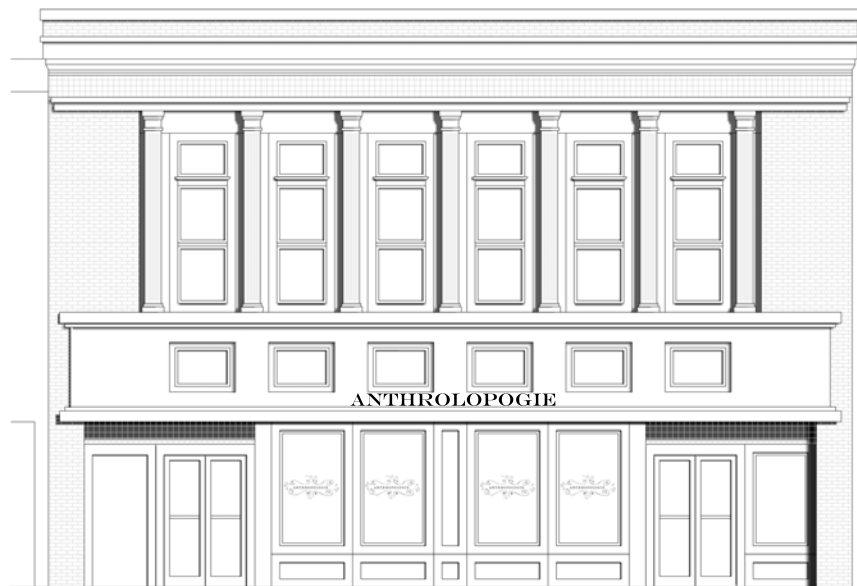
YellowJacket



Houston Baths

Facade restoration to the Latils building in downtown Baton Rouge, Louisiana. The owner requested the help of the Foundation for Historical Louisiana to restore the building facade to its original design in order to qualify for federal tax credits.

Facade Restoration



possible elevations



Randy Crowe
225.978.6993
rcrowe1@tigers.lsu.edu