

# 2009 Michael G. Meyers Design Competition

## Fire Station No.1

sponsored by  
the American  
Institute of  
Architects,  
Houston Chapter

Your challenge this year is to design the New Fire Station No.1. To be sited near the historical site of Allen's Landing on the banks of Buffalo Bayou, Fire Station No.1 will serve the downtown area. The hope is that you create a unique fire station that reaches out to the community, responds to the site, respects the environment and perfectly serves its primary function, the needs and the tasks of the firefighters, and the community.



Our Client - Engineer Operator – Tony Livesay

**safety function comfort**  
**water slope park**  
**community city environment**

## Program

### SITE

Access Drive  
Helicopter Pad  
Boat Dock for 1 boat  
Exterior patio  
Green Space

### BUILDING--- 5600 sqf approx.

**Apparatus Bay** 2500 sqf w/15'-0" ceiling  
3 Bay Garage with the following equipment  
Ladder truck, Pumper Truck, Ambulance, Rescue Boat  
Gear Lockers, Hose Reel Storage

**Apparatus Support** 500 sqf  
Laundry, Storage, Clean Up, First Aid Storage

**Public Entry** 140 sqf  
For Outside Community access

**Watch Office** 140 sqf  
Adjacent to apparatus bay and public entry

**Engine Captain Office** 140 sqf  
with sleeping area

**Ladder Captain Office** 140 sqf  
with sleeping area

**Community Space**

w/ Kitchen + Dining 400 sqf  
Lounge/Recreation 400 sqf

**Living Quarters**

Sleeping + Personal Storage for 10 600sqf  
Restroom + Showers for men and women 600sqf

**Project Requirements**

The design for your Fire Station No.1 must

1. Develop a distinctive solution that addresses the requirements of the program and it's unique site
2. Consider the possibility of designing a multilevel solution
3. Address the concepts of sustainable design in your solution by incorporating ideas that deal directly with @ least two of these concepts Site, Water, Energy,. Materials, Indoor Environment.
4. Written description of your project and Sustainable design concepts pursued and why.
5. Floor Plan, Site Plan, Exterior Elevations, Model.

**Additional Design Assignment**

Choose one of the following design exercises to explore at a more detailed level some other aspects of the Fire Station.

- **sleeping unit**
- **alternative to Fire Pole**
- **Fire Station ID Sign.**

## **Presentation Requirements drawings**

The following **minimum** requirements should be mounted on two 24" x 36" or 30" x 42" foam core or similar rigid boards (*do not submit more than two boards*):

- 1" = 50'-0" scale **site plan** showing outdoor features, building roof(s), sidewalks, and other site improvements.
- 1/8" = 1'-0" scale **floor plan** of the building showing walls, doors, windows, countertops, plumbing fixtures, room names, and other descriptive information.
- 1/8" = 1'-0" scale **exterior building elevations**
- 1/8" = 1'-0" scale **roof plan** showing how the roof slopes to internal drains, gutters, downspouts, or some other collection system.
- 1/8" or 1/4" = 1'-0" **section** of the building showing where openings are located in walls and how spaces are connected or divided.
- At least one accurate **perspective** drawing at any scale of an interior or exterior view of your project.
- Three or more **hand sketches** that document your design process.

## **models**

A 1/8" = 1'-0" **scale model** of the project (*building only, no site model*) is required for team projects. \*\*Models are optional for individual participants, but all are encouraged to experiment with models to help answer questions about their designs.

## **deadline for submissions**

Entries are due by 5:00 pm on Friday, **17 April 2009** at the ArCH Architecture Center Houston offices 315 Capitol, Suite 120, Houston, TX 77002, 713.520.0155

## **awards**

A reception and awards presentation will be held on Friday, **24 April 2009** at a time and location to be announced.

Design is a creative process, and this is an ideas competition. Engineering calculations are not required for mechanical, electrical, or structural systems. All participants will receive a certificate of recognition from the American Institute of Architects. There will be a balanced evaluation by jurors from architectural, academic, and other relevant fields of expertise.

Awards include college scholarships and scholarships to the U of H Architectural Summer Discovery Program,

**Affix a label on the back of all boards and models with the following:** please type Individual or Group Entry – Student Name(s) – School Name – Contact Number

## Sustainable design

### Site



Preserve green space or return developed land to more natural state  
Be aware of drainage, minimize potential erosion  
Be smart about transportation  
Be aware of extent of impermeable surfaces, eg; roads and paving  
Be aware of the affect of your site on adjacent properties

### Water



Be smart about how much, and how you use and or reuse water.  
Think about ways to conserve water.  
Use native and adaptive plants, and minimize use of potable water.  
Adopt water technologies that reduce amount of water used.

### Energy



Be smart about how much, and what type of energy is used.  
Think about ways to conserve energy.

### Materials



Consider the impact of products used in the construction of the Building;  
this would include materials with recycled content, salvaged, rapidly renewable  
and local materials.

### Indoor Environment



We spend the majority of our time indoors and we should optimize the quality of that environment.  
Think about ways to bring lots of daylight into the building  
Think about the types of materials you use inside the building and how they could affect the health of the occupants

## Site

Allen's Landing , Adjacent to spaghetti Warehouse. The site extends halfway into the Bayou, and to the main street. But we should consider all of the Historic area of Allen's Landing the site and design a fire station that is responsive to that environment.

Allens Landing St, Houston, Harris, Texas 77002 - Google Maps

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Google Maps Address

