

Introduction to Integrated Design

4.191

Fall 2006

Lecturer: Angela Watson

A Pedestrian Bridge

Assignment #1

The bridge will cross Memorial Drive to the Pierce Boathouse, touching down in the middle on the green strip in Memorial Drive. The bridge needs to be tall enough for trucks and fire trucks to pass below it, and should provide an accessible path via ramps. Access to the bridge should leave passage along the existing sidewalk intact.

While there is no specific program for the bridge, you can incorporate a place/destination at the ends or in the middle green. Think about who will be using the bridge, how they will use it, and the kind of place you would like it to be. Also consider important site conditions such as the proximity of the river and the volume of traffic that passes along Memorial Drive.

Part 1

Create a sketch model at $1/32' = 1'0''$ that illustrates your approach to the design problem. We will distribute a base drawing that you may use. You should attach it to cardboard or foam core to give it some stiffness and create a base. Feel free to modify the base-map as long as you retain its scale as well as the area and orientation on the map

You should think about use of materials that reflect your intent for light and heavy structure, transparency and opacity, and connections to the boathouse, the green area and the MIT Campus. We will review this model during desk crits on Wednesday, September 13. You will use this exploration as a starting point for your final model.

Part 2

For our review on Wednesday, September 20, you will focus on one section of the bridge that will include one end and the middle section on the green. The chosen area should best represent your idea for the whole project. The model should be at $1/8'' = 1'0''$ and should be as detailed as possible.