



Introduction to Digital Media 2

Carnegie Mellon University
School of Architecture
Spring 2011

Project 3: Building Section

Overview

For project 3 and 4, the class will be assigned 4 canonical North American Louis Kahn buildings to serve as the basis for architectural analysis and representation. The projects are assigned alphabetically as follows: [A-C] Esherick House; [D-G] Kimbell Art Museum; [H-L] Phillips Exeter Academy Library; [M-P] Fisher House; [Q-S] Salk Institute; [T-Z] Yale Center for British Art. Projects 3 and 4 will require the construction of a digital model of your assigned building. This will serve as the geometrical basis for the various facets of both projects.

Description

Using the underlying geometric principles and basic dimensions of the assigned buildings, you are to construct a three-dimensional rhino model that will subsequently be used to complete projects 3 and 4. Therefore, it is critical to produce an accurate and detailed model. You are not permitted to scan and trace drawings as it will not preserve the geometric principles and prove less accurate as a method. For project three, you will cut a section through your three-dimensional Rhino model of the assigned building and use AutoCad to further embellish the resulting two-dimensional drawing to add information and lend scale. While this section can be cut anywhere through the building, you are challenged with finding the most informative location.

Workflow

Successful completion of this project will require the use of AutoCad for drafting, Rhino for three-dimensional modeling and Adobe Illustrator for final layout and printing. It must be obvious that geometric construction lines have been utilized in the creation of the drawing and model. These should be placed on a unique layer and not deleted.

Goals

Understand the virtual modeling and architectural drawing workflow in Rhino and AutoCad
Create a legible and detailed architectural drawing

Resources

Books containing dimensioned drawings of the four Kahn buildings are on IDM2 course reserve in the library.

Specifics

Virtual output: ZIP archive that includes: 2d AutoCad drawing, 3d Rhino model, final PDF
Physical output: 18" x 24" plot (landscape orientation and cut to size) on Strathmore or Arches hot press paper
One sheet for the section drawn at $\frac{1}{4}'' = 1'-0''$
Schedule:
2.7 Project assigned
2.28 Project due at beginning of class

Grading and Evaluation Criteria

- You will be graded on the following:
- Level of information conveyed through section
 - Use of construction lines in geometry creation made evident through existence in files
 - Completion of three-dimensional model
 - Clarity of drawings through use of line-weight, tone, etc.
- Project 2 equates to 20% of the final grade.