Due by next Tuesday (August 30)

1. Banana Building Panelization Problem

This is a façade of a precast concrete building. In order to produce precast concrete pieces, the façade of this building must be panelized (=segmented into small pieces that can be produced at a plant, delivered, and assembled on site). How would you panelize this building facade?

Some of major considerations are: repetitive use of the same shape, ease of production, structural stability, ease of handling/shipping/assembly, etc.

The plan of this building is something like this:

![Diagram of banana building façade]

2. Workflow Design

If you are involved in this project from the schematic design phase to the erection phase and you can form your own team and use whatever application you want to use (Let's say that you have just founded a new architectural firm with three very talented architect friends), what tools would you use for what task to maximize the creativity and the productivity at the same time? Describe the envisioned workflow using a process model.
Workflow design

1. **Schematic:**
   a. Physical Drawings
   b. Sketches
   c. Study models
   d. At the same time, if 3-d elements needed, studies in Rhino, 3DS or Max, and AutoCAD can be used
   e. Presentation boards (if needed) organized by Adobe products

2. **Design:**
   a. Simple AutoCAD geometries imported into any NURBS program, like Rhino or 3DS

3. **CD’s (Construction Docs):**
   a. All 3D shapes and designs converted back into 2D sheets for simple, easy to transfer (electronically) construction documents

4. **Construction:**
   a. If special shapes/constructions needed, they would be 1st imported directly from NURBS programs and files directly (from design process) direct for shop drawing conversion