August 26, 2011 / Site Visit
"A constructed wetland functions as a symbiotic relationship formed between strategic human planning and natural systems"
Further Analysis / Nodes

Nopex serve as drainage points

Floating structure footings

Top floor

Mid-Term Review

August September October
Voronoi Tessellation

Each cell in the diagram encloses a particular site, and the surface of the cell contains all the points on the plane that are closer to that site than to any other.

The math describes a sort of optimal path across a plane; they also occur in odd places, like the spots on a giraffe’s body, a turtle’s shell, cracked mud, etc...

Structure Analysis / Voronoi Diagram

SYMBIOSIS
Rather than a conventional space truss which distributes load across regular geometry, voronoi space truss would distribute load using voronoi tesselation pattern. Loads are calculated as point generation and carried across a path according to the voronoi tesselation in three dimensions creating a cellular space frame truss.

Further Analysis / Application
Site Considerations
- Roads Feasibility Study
- South-SouthWest Office Orientation
- Public view to River
- Downward Slope for Drainage Ponds
- Design-Site Integration (Part)

River Inlet
Site Plan
North
1. Laboratory
2. Apparatus
3. Private Offices
4. Directors Office
5. Small Conference
6. Large Conference
7. Lounge
8. Reception
9. Presentation
10. Storage/Mail
11. CPU server
12. Mechanical
13. Kitchenette