The Northwesternmost site was ideal because the seclusion removed unnecessary attention to the tower. This site gave us more options in creativity of the design, eliminating much of the pedestrian concerns.

Six compartments separated by a chain link fence. compartments vary between 220 - 280 square feet. Each level has a separation in the wall for better ventilation and reduced air conditioning.

The bell tower design was created to go above and beyond the standard cell phone tower; it was designed to be a monument for IIT’s campus. It raises the equipment building off the ground to allow a pavilion space below. With the addition of bells, the tower serves a different function that masks the actual cell tower.

This design focused on sustainability and aesthetics of the tower itself. The tower is wrapped in an aluminum mesh and photovoltaic cells are placed within the spaces in the mesh. Based on their position, any pattern can be created.

- No artificial lighting on towers or antennas unless required by the FAA.
- Towers must have a galvanized steel finish or be painted neutral colors.

- Tower cannot rise more than 150 ft from the curb
- Tower must be of a monopole construction (cylindrical, tapering steel tubes without guy wires).
- Tower must be constructed so that if failure does occur, it collapses on itself and not on surrounding structures.
- Freestanding facilities must be enclosed by a six foot fence with an anti-climbing device that is not barbed or razor wire.
- Wireless communication facilities must be landscaped with plants to screen the view of the tower and equipment from adjacent residential properties.

- Height: 19.8'  
- Width: 4'  
- Design Life: 30 years  
- Energy Output: approximately 1000-1300 kW*hr/yr  
- Cost: estimated to be $16,000-17 including warranty

- Height: 10'  
- Diameter: 6'  
- Energy Output: approximately 1500 – 2000 kW*hr/yr  
- Cost: estimated to be $15,000

With the potential for new development near the IIT campus, such as the Michael Reese Hospital area, there will be an increasing need for expansion of cellular data capacity. With the designs that we are introducing, the expanding market will be provided for in the best possible way. While being able to be replicated on almost any urban site, the tower designs are able to fit the needs of most site constraints, and retain the ability to alter the appearance as a means of addressing the communities needs. The site that we have chosen is representative of one of those urban spaces, and is acting as a prototype from which to jump.

What is next?
- Obtain approval from sponsor
- Submit proposal to IIT Planning Committee
- Submit the final design to city’s ordinance board to ensure that all zoning requirements have been fulfilled.