

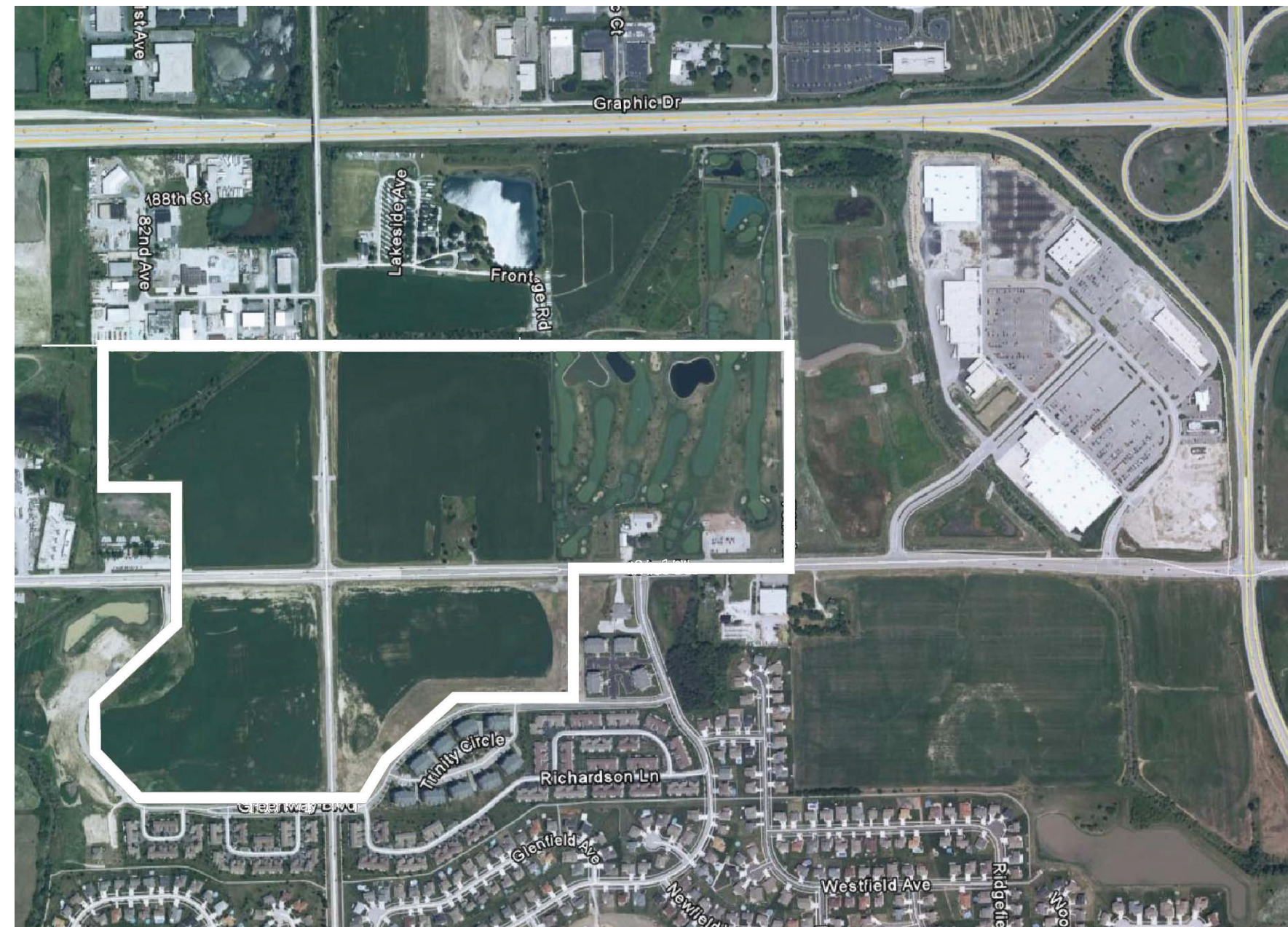
INNOVATE

IN THE INNOVATE SCENARIO, advanced building technologies, clustered development, and focused transportation are utilized to promote a sustainable development. Transportation is concentrated along key routes to promote a walkable community. Public shuttle service provides a sustainable means to navigate through the site and connects residents with other focal destinations throughout Tinley Park.

DAYLIGHTING strategies and **GREEN ROOFS** are also utilized to help alleviate solar heat gain and reduce energy consumption. Atrium courtyards penetrate buildings to provide daylight to multiple floors. Building heights are determined by using solar angles to provide maximum and minimum heat gain during both winter and summer months. Residential neighborhoods are clustered around common green spaces. Green spaces serve both as recreational areas for social interaction as well as smaller **COMMUNITY GARDENS** for local food production.

DESIGN TEAM:
 Patrick FitzGerald managing principal
 Steve Ryniewicz principal
 Valerie De Luca senior designer
 Yun Tong project architect
 Peter Szczelina project architect
 Sean O'Gorman architect

FitzGerald
 Associates Architects



EXISTING CONDITIONS

CONCEPT PHOTOS

Vertical Sky Gardens



Community Farm



Rooftop Solar Collectors



Vertical Green Wall



Private Gardens



Reflecting Ponds

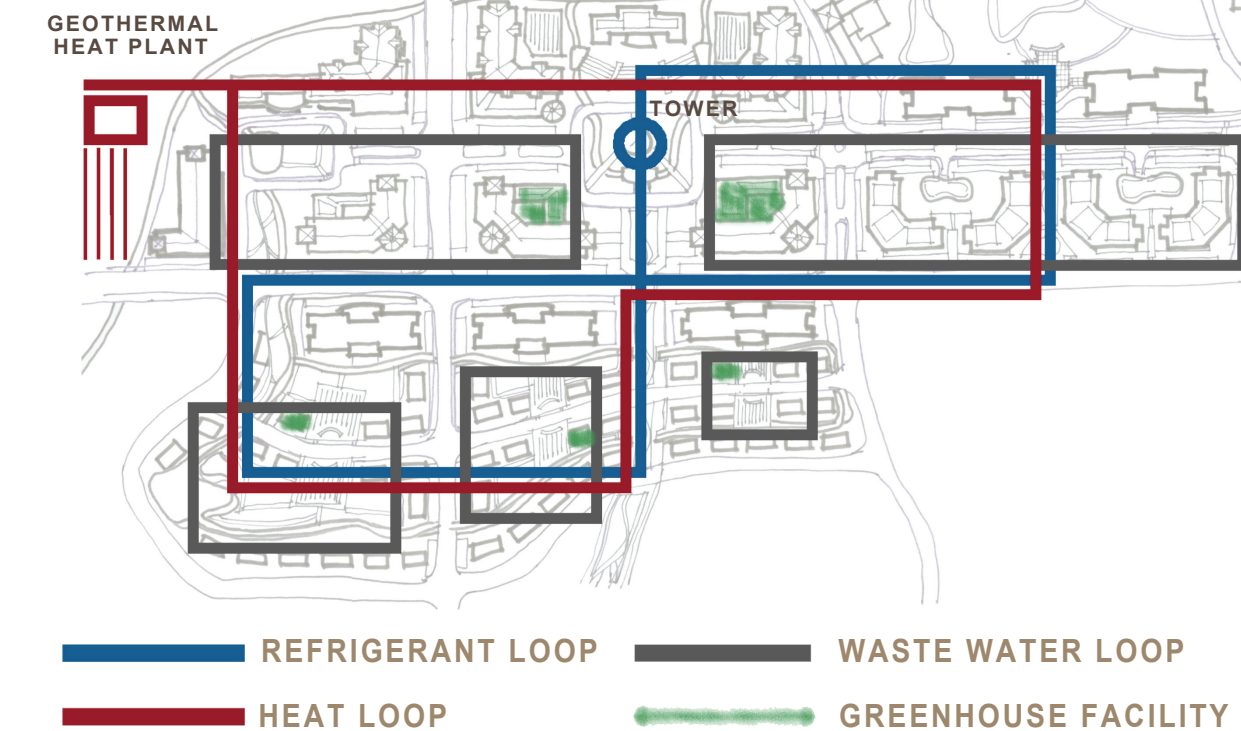


Green Roofs



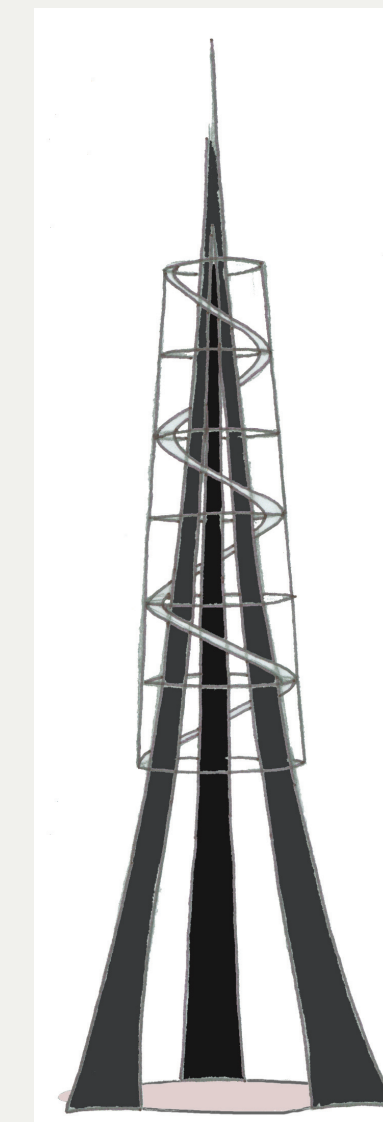
PROPOSED SITE PLAN

- GREEN HOUSES
- NATURE LEARNING CENTER
- THEATRE BUILDING
- LARGE-SCALE COMMERCIAL
- SMALL-SCALE RESTAURANT
- 6-STORY MIXED-USE BUILDING OFFICE, RESIDENTIAL OVER RETAIL
- 4-STORY MIXED-USE BUILDING RESIDENTIAL OVER RETAIL
- 3-STORY RESIDENTIAL FLATS



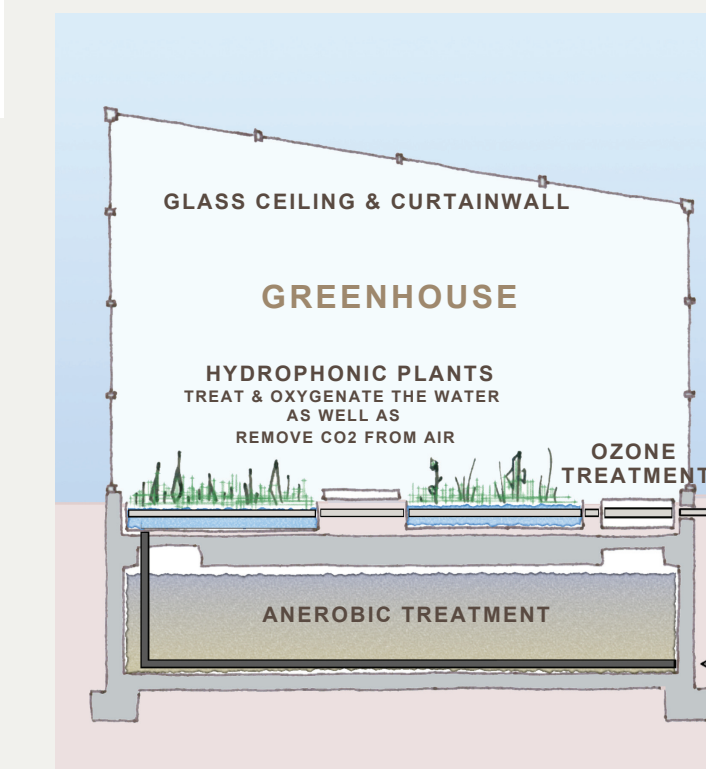
UTILITY DIAGRAM

GREEN TECHNOLOGIES are employed for all buildings within the development. Geothermal heat and sustainably produced refrigerant pipes are circulated to each building on site by way of underground loops. Waste water is also circulated away from buildings underground, and taken to GREENHOUSES. These facilities are centrally located in the community to serve as a visual reminder of the green strategies implemented in Tinley Park.



TOWER

The **TOWER**, located in the center of the community plaza, acts in a similar manner to a compressor in an air conditioning system; but on a larger scale. Advanced **solar technology** heats and compresses refrigeration fluid, traveling up the legs of the tower. The **wind turbine** powers a pump that circulates the compressed fluid back down and through condensation lines of the **refrigerant loop**, where it is cooled and distributed throughout the site. Each building then has an **evaporation chamber**, here the compressed fluid is released, and this absorbs heat from the building's refrigeration lines. The decompressed refrigeration fluid then returns to the **TOWER**, to repeat the process all over again.



GREENHOUSE

FitzGerald
 Associates Architects

Chicago Metropolitan Agency for Planning
 CMAP

CNU Illinois

GO TO 20
 Imagine that...