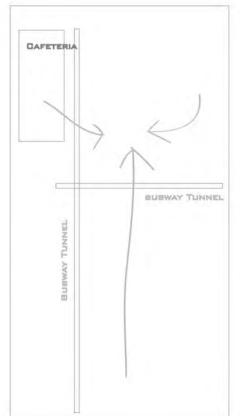
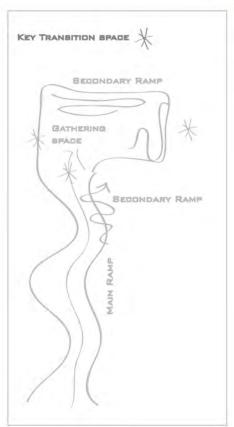
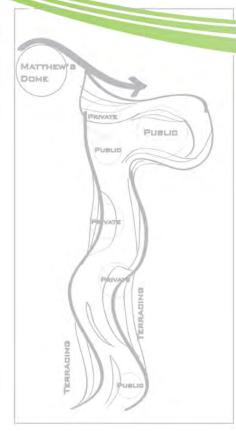
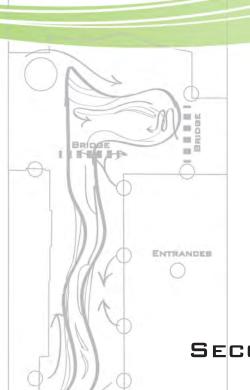
# Matthewa Dorne Matthewa Dorne Matthewa Dorne Annenberg Pick Annenberg Pick









CREATED BY: MICHAEL BLANK

Kahler Hotel

Gonda Bullding

PRIMARY ADVISOR: MATTHEW KIRKWOOD

SECONDARY ADVISOR: JOAN VORDERBRUGGEN

Mayo Bullding

Siebens Building

Marriot Hotel

## TYPOLOGY

Mayo Gardens is an urban design project focusing on urban healing in the context of Rochester, MN. Rochester is home to the world renowned Mayo Clinic. The Mayo Clinic has set an unprecendented standard for medical care for the past 150 years. The mission of the Mayo Clinic is, "To inspire hope and contribute to health and well-being by providing the best care to every patient through integrated clinical practice, education and research" (mayoclinic.org).

## RESEARCH

Dr. Ulrich, a professor at Texas A&M of Architecture, has conducted scientific research on how visual surroundings can affect recovery times after surgeries and the psychology of patients. His results indicate that views to green space can improve recovery times and invoke positive psychological effects. Using this research as evidence, allows designers to create environments that would provide the best health care experience.

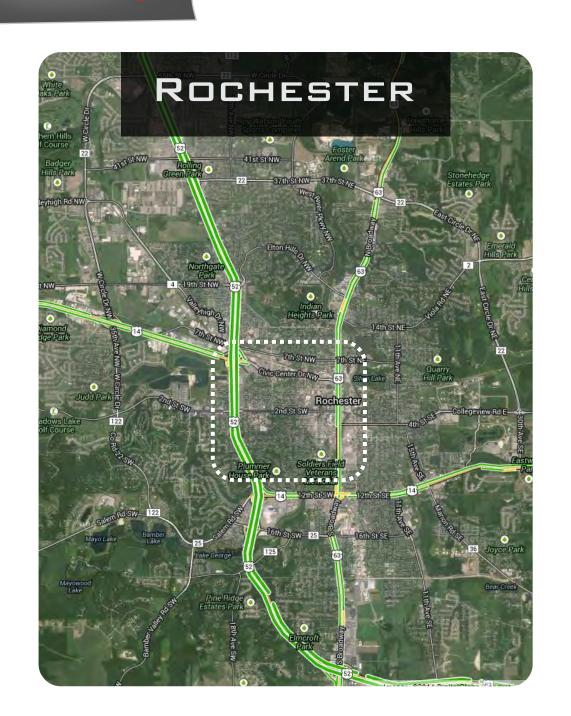
# CONTEXT

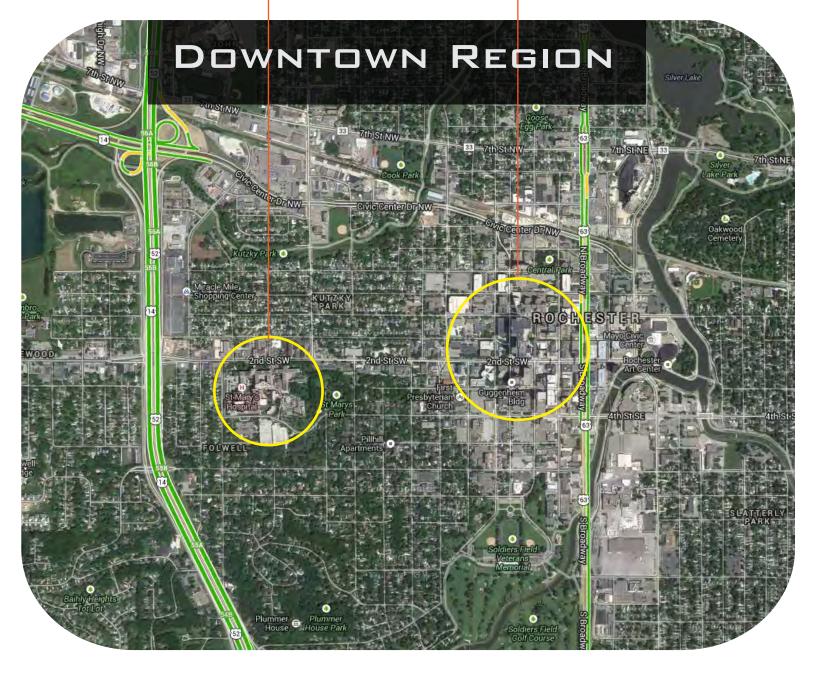
LOCATION: ROCHESTER, MINNESOTA

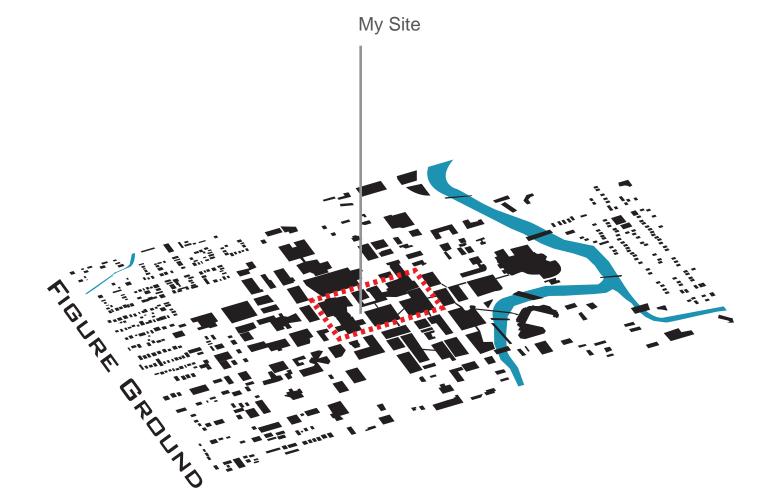
POPULATION: 108,992

DOWNTOWN CAMPUS

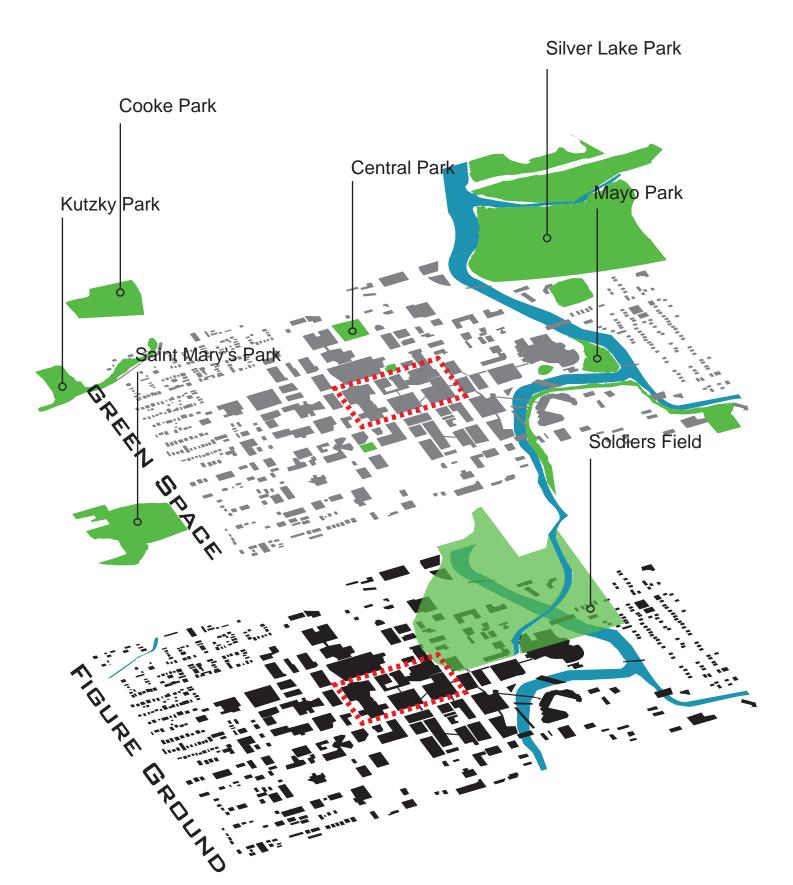
SAINT MARY'S CAMPUS





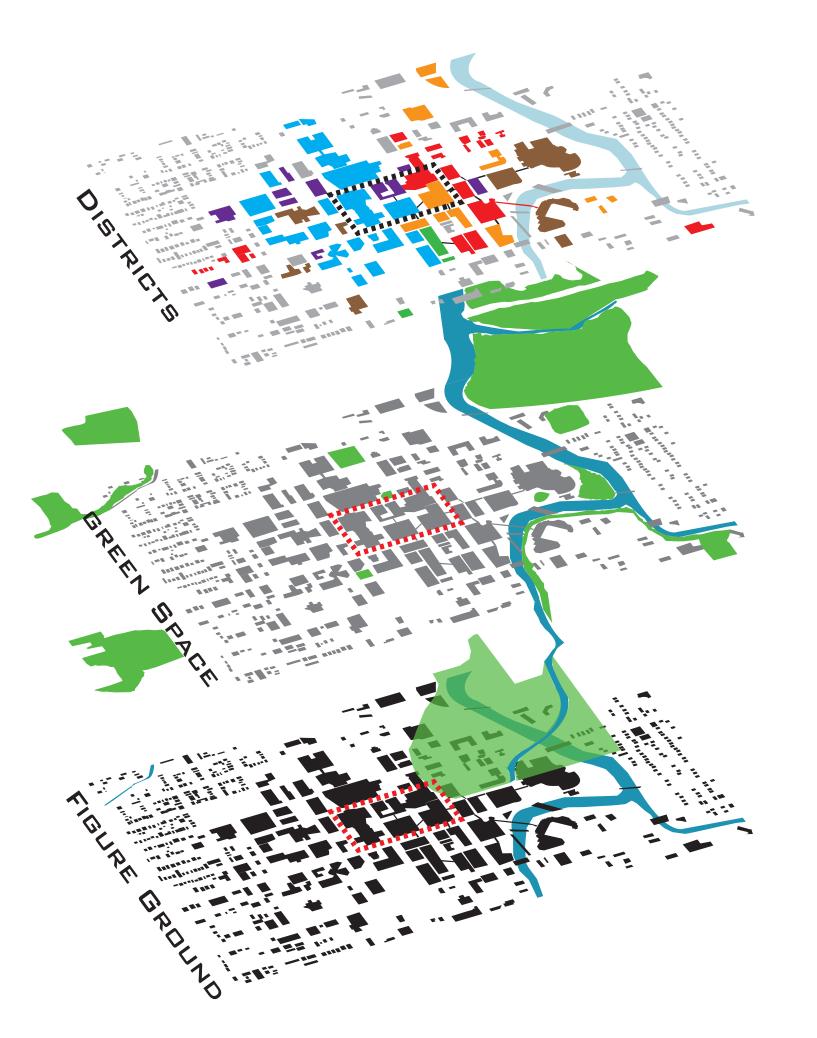


The site is located at the core of downtown Rochester. This urban core has the highest density in the region. This high density area offers a variety of users the vantage point of a tall structure such as the Gonda Building.



Rochester has large green/open spaces surrounding the downtown region; however, lacks green spaces in the immediate downtown. A significant green space in the core of downtown would attract more users and create a more vibrant atmosphere.

The site is located at the core of downtown Rochester. This urban core has the highest density in the region. This high density area offers a variety of users the vantage point of a tall structure such as the Gonda Building.



Medical Facilities

Educational

Hotel

Commercial

Residential

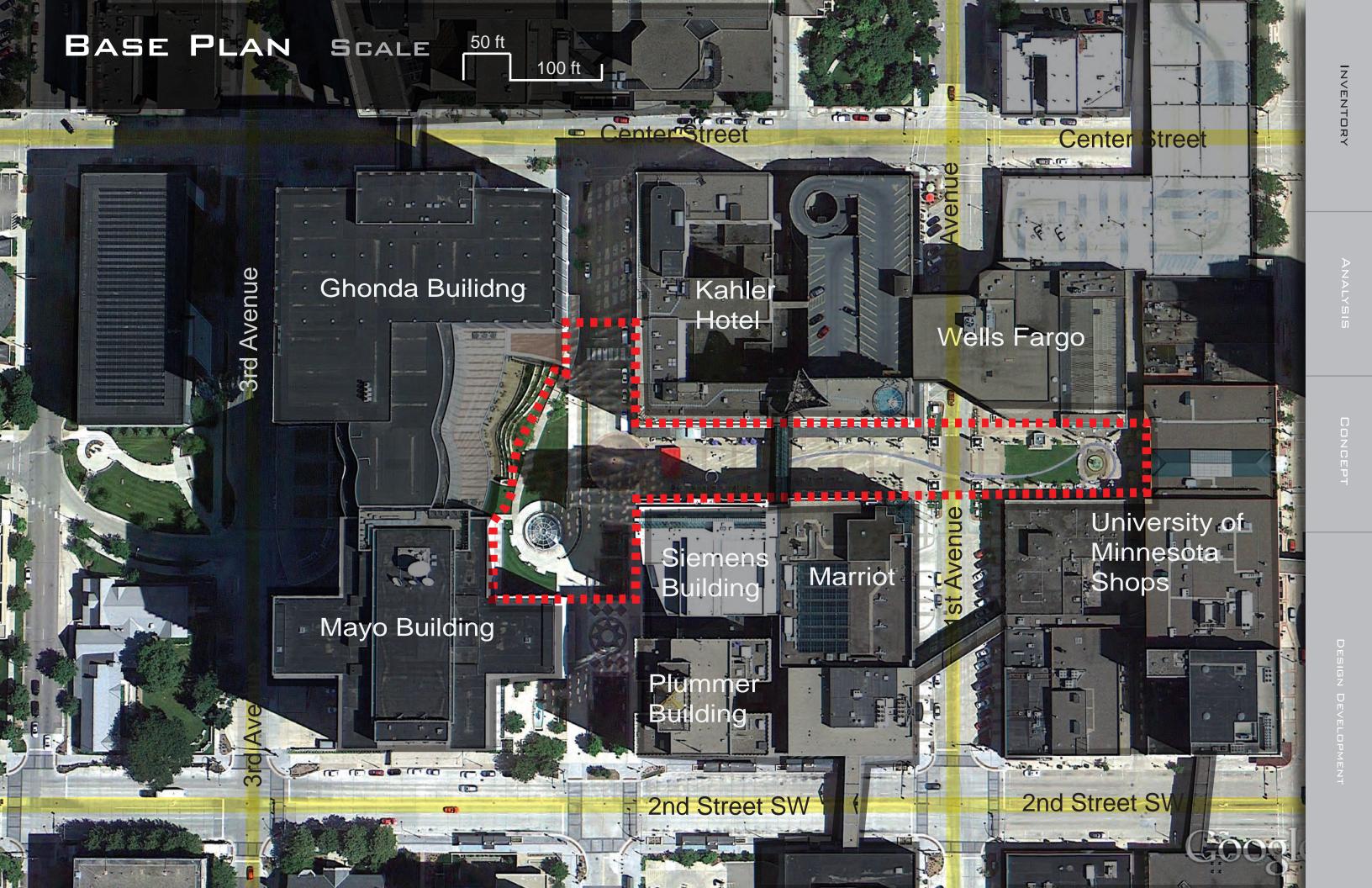
Civic Cultural

Retail/ Dining

This study seperates the downtown into different districts that each have unique qualities. The site selected has a diverse amount of building usages including medical facilities, hotels, commercial, and retail/ dining. This diversity provides the opportunity for a multifunctional space.

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NVENTORY

ANALYSIS

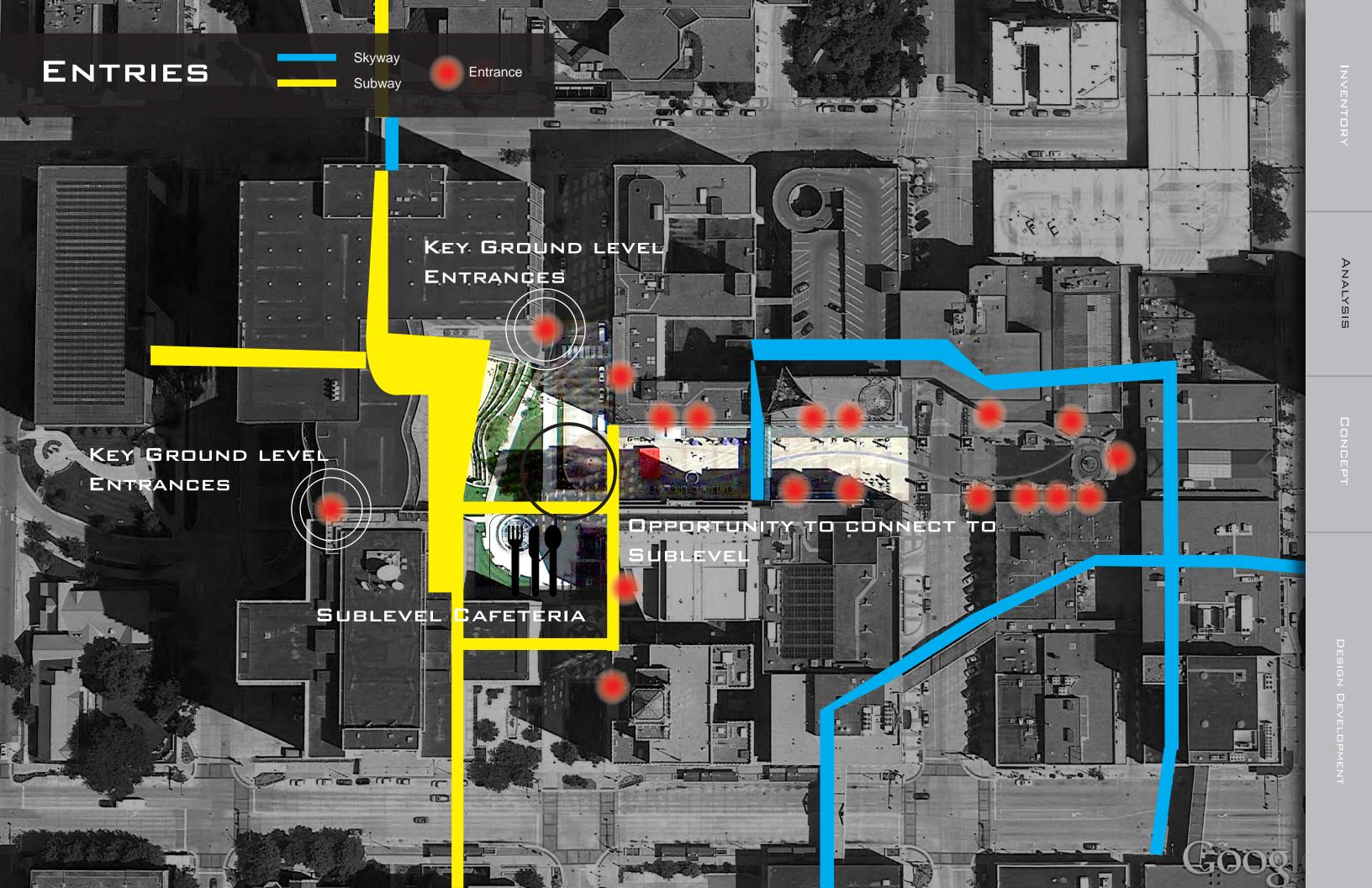
DESIGN DEVELOPMENT

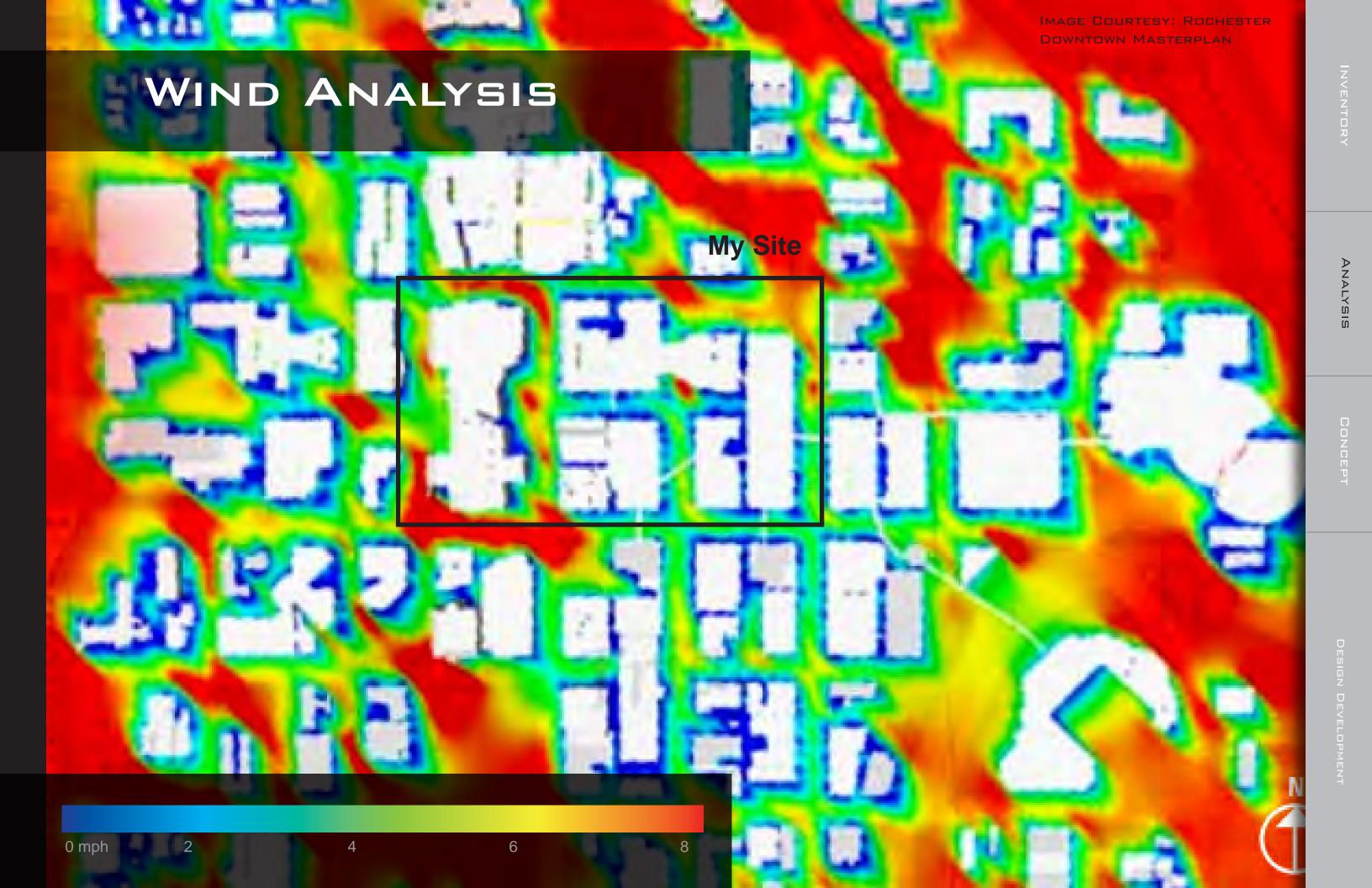


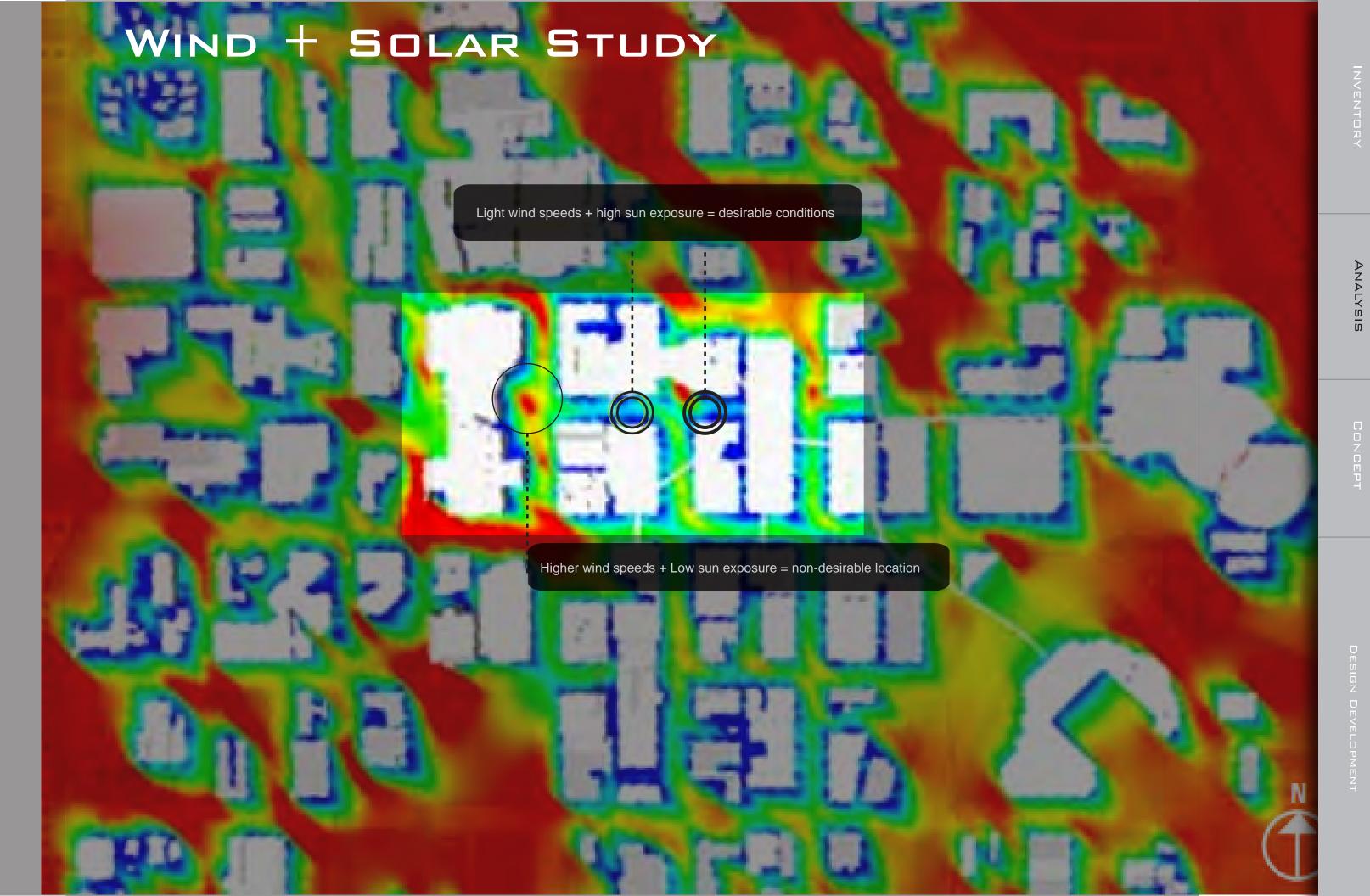
NVENTORY

ANALYSIS

ESIGN DEVELOPMENT







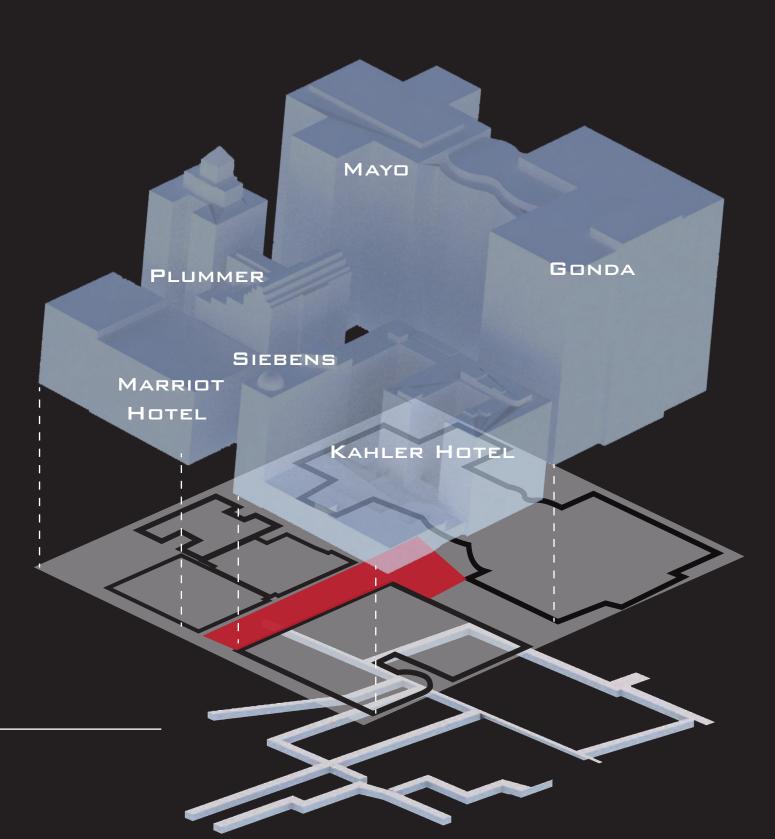
# MULTI-LEVEL OVERLAY

SITE AREA

BUILDINGS

GROUND PLANE

SUBWAY

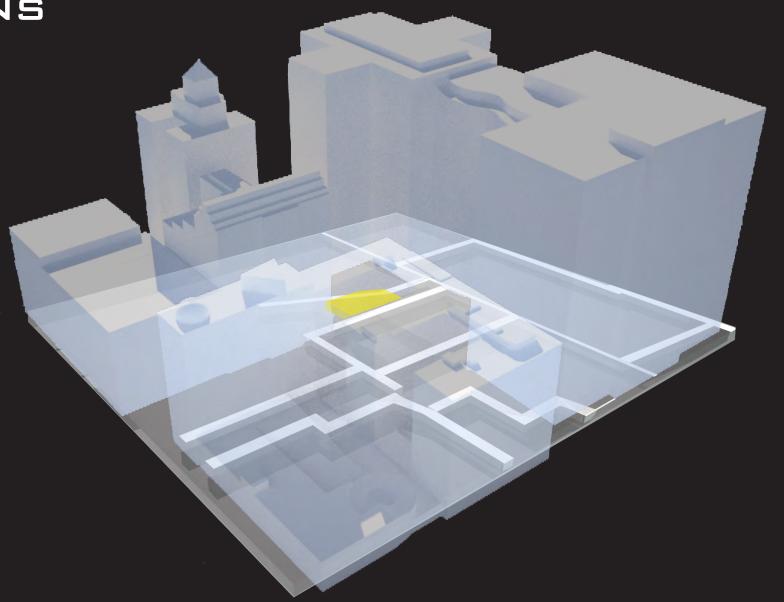


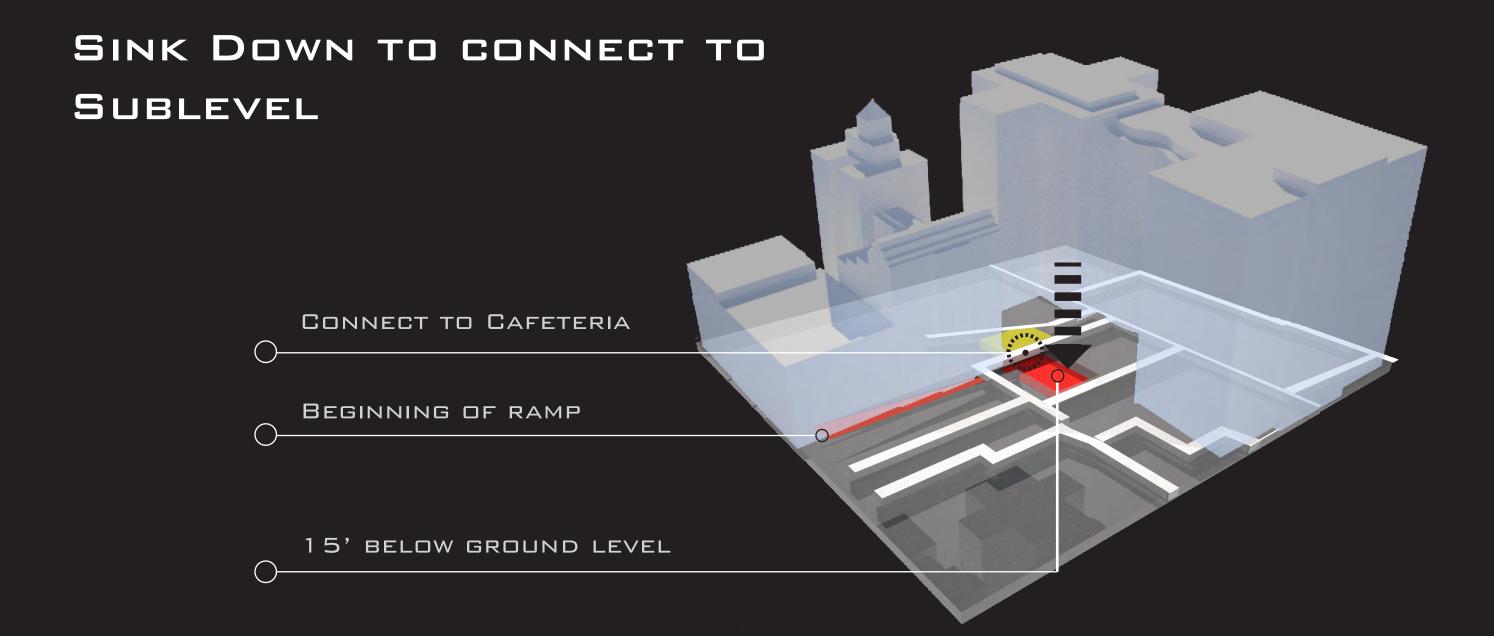
# SUB-LEVEL CONNECTIONS

SUBWAY SYSTEM

SUB-LEVEL

CAFETERIA





## WHAT CREATES A HEALING ENVIRONMENT?

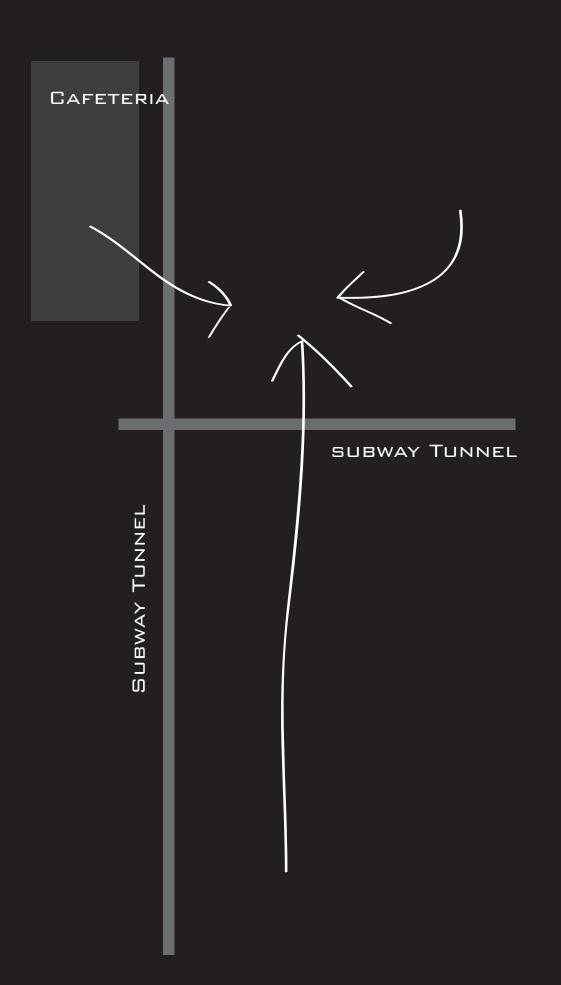
- + Greenspace
- + Biophilic Design (an innovative approach that emphasizes the necessity of maintaining, enhancing, and restoring the beneficial experience of nature in the built environment)
  - + Local materials
  - + Natural Patterns and Forms
- + Activity/ Exercise

## OPPORTUNITIES & CHALLENGES

This field of study is commonly referred to as Evidence-based design (EBD). EBD has influenced design decisions in the Mayo Gardens by providing users a connection to nature. The specific site selection in Rochester provides the opportunity and challenge of creating a space for healing in the dense urban environment. The urban environment is based on a grid system that is far from natural. Connecting people to nature in the space is the primary objective of the design.

Goal: Create connections at sublevel

+ Sink down space to create connections to the Gonda Cafeteria and the subway network

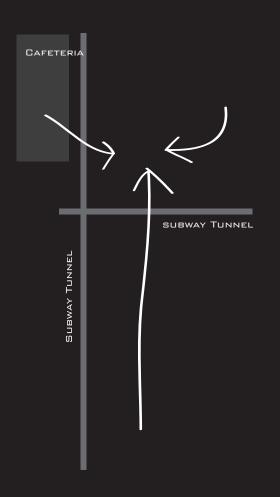


# Goal: Make site accessible to everyone

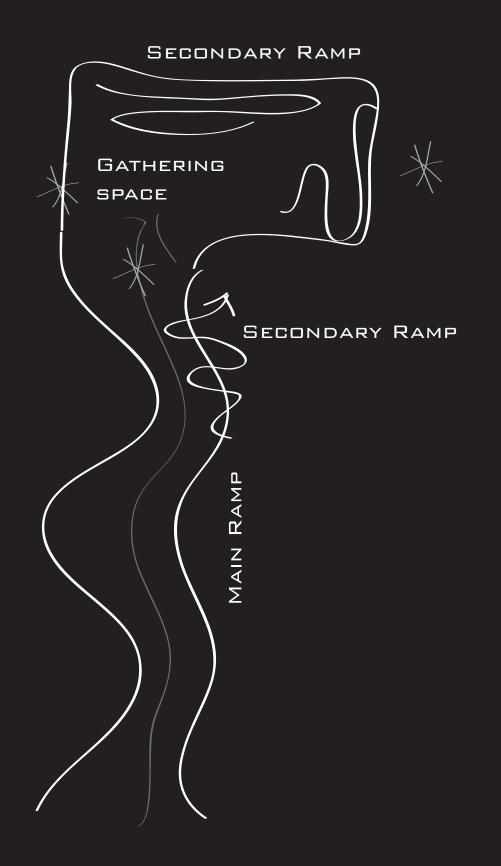
Integrate ramps so site can be accessed from three primary directions

# Goal: Capture the essence of biophilic design through form

The natural form of a river was mimicked to associate the design with biophilia





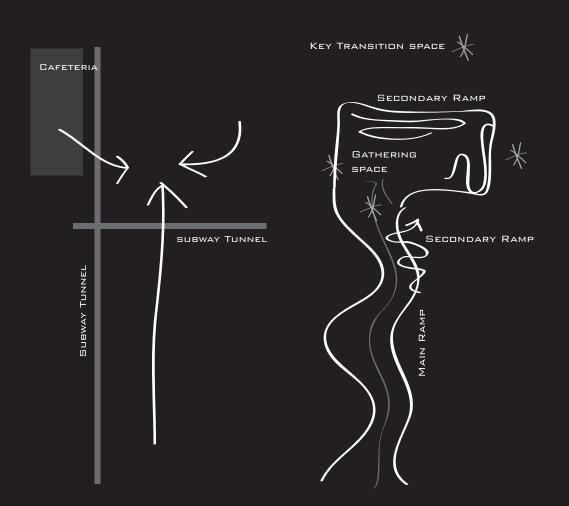


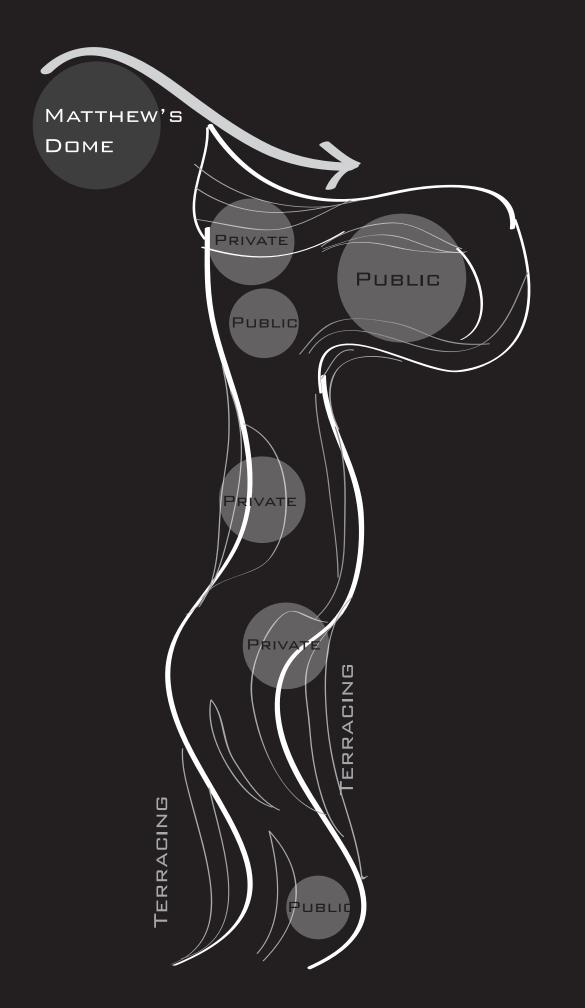
## Goal: Create spaces at multiple levels

Seperated spaces by public and private for varying group sizes at different levels

# Goal: Maximize green space

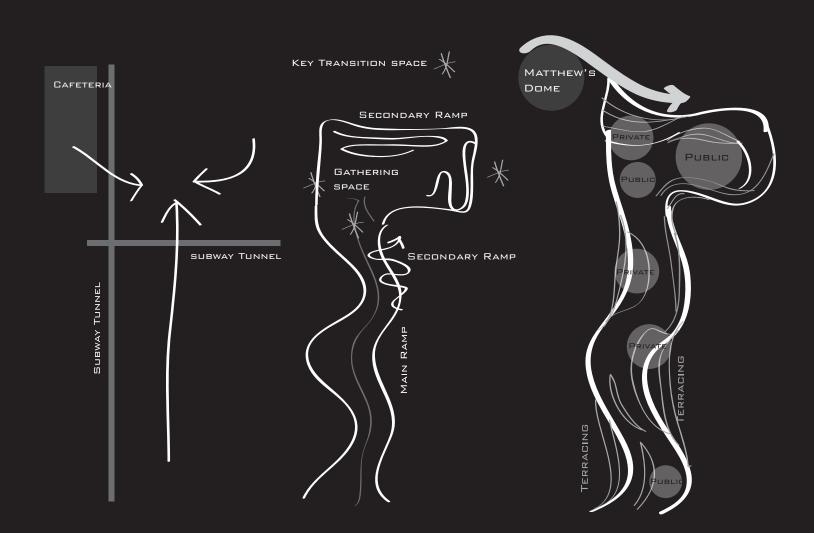
+ Terrace the edges of the design to break up large vertical walls

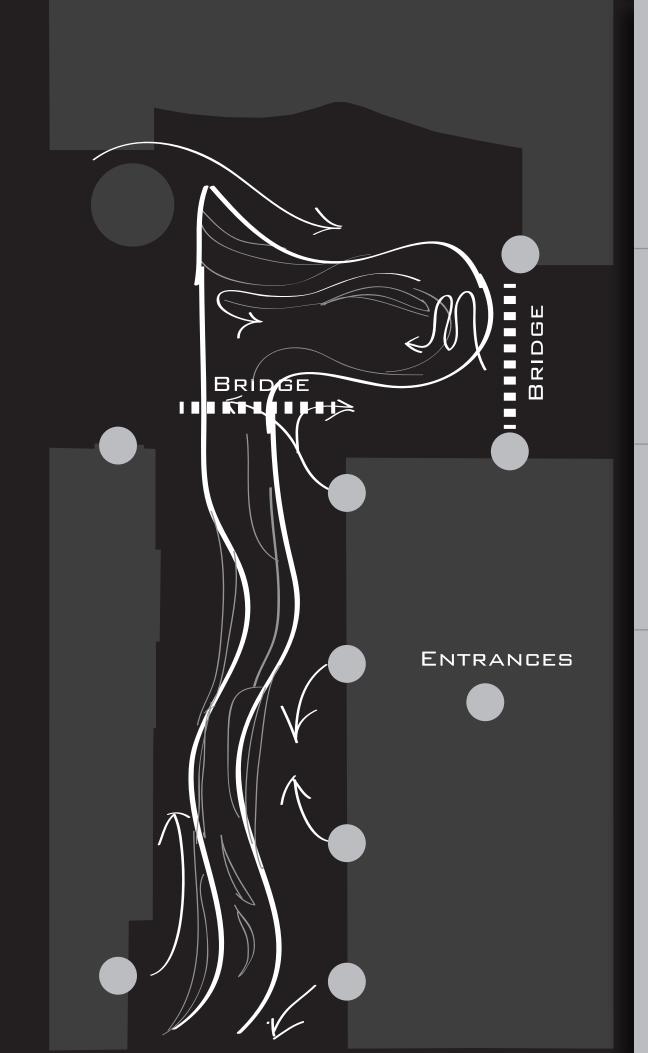


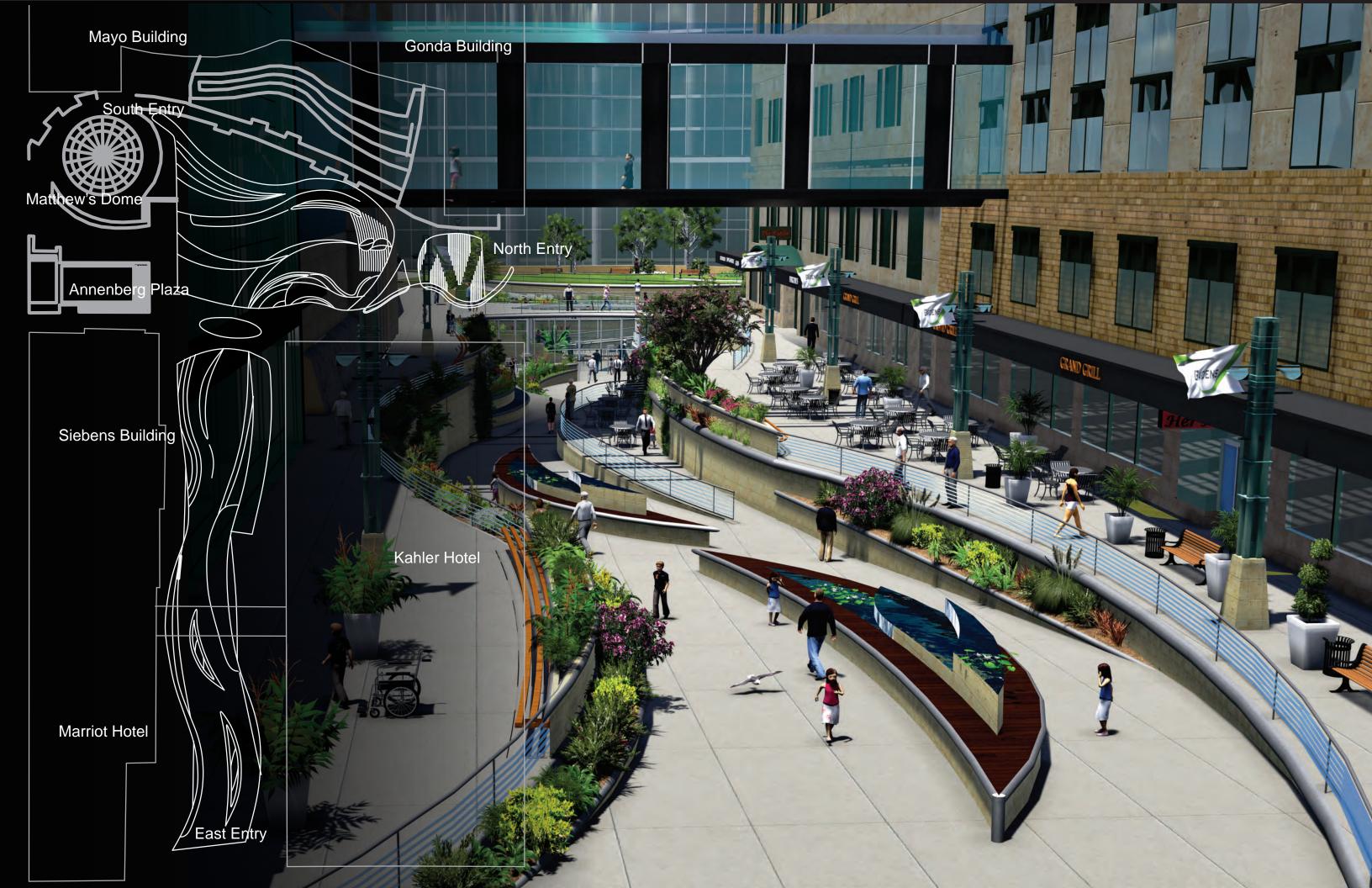


Goal: Allow for options of different routes to experience the site

- + Additions of bridges allow people to bypass the site
- By studying circulation, the locations of ramps were strategically placed to explore different levels of the design







## MATERIAL PALETTE

The materials I selected were based on the principles of 'Biophilic Design'. Biophilic design is defined by Stephen R. Kellert as, "the deliberate attempt to translate an understanding of the inherent human affinity to affiliate with natural systems and processes into the design of the built environment.

#### CALM WATER

Calm water has reflective properties that are associated with peace and healing. The contrast from calm water to moving water invokes interaction.

#### FALLING WATER

Falling water creates many biophilic attachments to people. The sound of water falling drowns out surrounding city noise while also giving a calming affect to viewers.

### SHADE PLANTS

This site is surrounded by tall buildings and see's limited sunlight, plants that do well in shady environments would be favorable.

#### WATER LILIES

Water lilies have been used for medicinal purposes for centuries. The aroma and aesthetic of this plant is often associated with healing.

#### NATIVE LIMESTONE

Minnesota Dolomite Limestone (MDL) is quarried in Winona, MN by the Biesanz Stone Co. only 45 miles away from Rochester. This stone has a warm color which is desired

### STAINLESS STEEL

Stainless steel rims provide an accent color while also giving the design a sleek feel. This steel is also used throughout the Mayo Clinic's architecture.



