CONTOUR

2014-2015 Vol. 4

University of Wisconsin - Madison
Department of **Landscape Architecture**

edited by Eric Schuchardt and Hana Poth

PREFACE

I am excited to present the 2014-2015 Contour, a catalog of graduating senior capstone projects. This is our fourth annual catalog profiling student work at the University of Wisconsin-Madison. This year's catalog spans a diverse set of projects: landscape preservation, integrated agricultural systems, downtown redevelopment, urban waterfronts and parks and therapeutic landscapes. Geographically they range from Superior to Sturgeon Bay in the north to Boscobel and Oconomowoc in the south. Students continue to take the Wisconsin Idea to all regions of the state interacting with state residents and gaining experience in the practice of landscape architecture in preparation for entering the professional job market or continuing to graduate school.

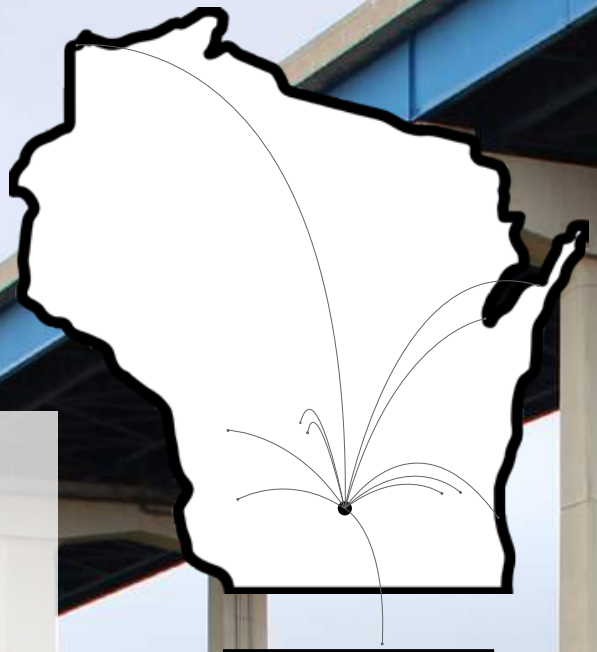
The two-semester capstone provides students the opportunity to demonstrate their skills, knowledge and ability to resolve "real-world" design problems. Passing capstone is a requirement for graduation. Since the 1980s, the Department's capstone projects have addressed the needs of more than 250 clients. Applications from communities and public agencies seeking to become a part of the capstone experience continue to grow in numbers to where we now have a waiting list.

Please share your comments with the Department. If you know of a project appropriate to the capstone experience, contact Eric Schuchardt or me; we are constantly looking for the best in complex and engaging projects for students to undertake.

John Harrington, Chair
Department of Landscape Architecture

Fall 2015

THE IDEA



WATERFRONTS

Schilling, Julia	Milwaukee, WI
Clark, Peter	Madison, WI
Blankenship, Lauren	Superior, WI
Nett, Connor	Madison, WI

PARKS & ECOLOGY

Gustin, Tyler	Rock Springs, WI
Kaniewski, Adam	Merton, WI
Kim, Lyn	Green Bay, WI
Mank, Lily	Oconomowoc, WI
Sherfinski, Kristi	Baraboo, WI

URBAN DESIGN

Chachula, Nancy	Dekalb, IL
Kearney, Konner	Sturgeon Bay, WI
Sperber, Lindsay	Boscobel, WI
Yang, Sherry	Cashton, WI

CLIENTS, STUDENTS, AND THE FINAL EXAM

Many of us remember taking our final exams, and we could not wait for those two hours to be over. Afterwards we could finally relax and celebrate having memorized a semester worth of notes and definitions. Unlike those typical exam experiences, our senior capstone program functions as a rigorous year-long exam that tests a student's design and planning knowledge gained over the previous three years. The best part is that the exam is grounded in working with "real" clients to help solve contemporary design and planning issues, directly affecting much of the Midwest.

Many of our clients have found that by working with our students it allows them to explore different design and planning options they never would have imagined or even thought were possible. The final outcome is often a solution that has a long-term vision but also addresses the immediate economic, social, and ecological needs of the client.

Overall the clients get a great project while the students get an excellent experience discovering how their designs and plans are no longer just drawings and presentations stored on their flash-drives. Their projects are published and spread throughout Wisconsin, changing communities well after they graduated and finished their final exams.

A special thank you to Hana Poth for helping edit this year's Contour publication, and to all the clients, faculty, and guest critics who helped mentor the students throughout the year. Our capstone program would not be possible without your generous support.

Eric J. Schuchardt, MLAUD, ASLA

Editor, Capstone Coordinator & Course Instructor
Department of Landscape Architecture

CLIENT EXPERIENCES

Julia made two large contributions to the project. First, she successfully shared her vision for the Milwaukee river system as something more than an urban storm sewer! She is clearly a creative thinker and in our conversations about barge transportation for food, she saw opportunity in breaking down containers into various sizes to address multiple scales that our clients need.

The second large contribution that Julia made to our project was her ability to graphically represent our best (and ever-evolving) thinking on how the system works. Very early on, she worked with us to clarify our conceptual understanding of food freight. It is rare to have someone with advanced graphic skills to make the ideas concrete early -on. We've used the resulting graphics in a variety of presentations and academic papers, and will be using them in up-coming project papers (with appropriate credit). We expect these high-quality graphics to be of interest to others in the coming years.

Thank you for an excellent experience.

Michelle Miller
Associate Director
UW-Center for Integrated Agricultural Systems

The project for Sturgeon Bay was undertaken by Konner Kearney and involved planning and design for the Egg Harbor Road corridor. This project was both relevant and timely. This corridor is a major transportation and business artery for the city. The Sturgeon Bay Comprehensive Plan identifies the revitalization of this corridor into a mixed-use neighborhood as a catalytic project with the potential to increase value and spur economic investment. However, the plan only includes a cursory examination of the issues and objectives. There remained the need for an in depth analysis and complete set of recommendations and detailed drawings that Mr. Kearney's project now provides. The project was timely because the city is conducting major work on this corridor this fall. The construction includes stormwater improvements, curb & gutter, sidewalks, street trees, and lighting. This work is expected to impact future development so Mr. Kearney's report can be used to help guide new development.

City staff has a very favorable impression of the effort by Mr. Kearney. At the beginning of the project, he met with various staff members to gain background info and perspective into the Egg Harbor project. Konner obtained maps and data in order to create his plans and recommendations. In particular, I was impressed by the long-term vision and planner's instinct that he demonstrated. In fact, his work could easily have been mistaken for a planning document prepared by a graduate student at UW's Urban & Regional Planning Department.(That's a compliment, by the way)

The Sturgeon Bay Plan Commission served as the steering committee for Mr. Kearney's project. When he presented the initial findings, there was great interest among the membership and the general public as well. His presentation of his preliminary plan was very professional and thorough and generated a significant amount of questions and comments from citizens who attended the meeting. Konner is presenting his final plan to the Plan Commission on July 1st and we look forward to a lively discussion regarding his recommendations.

Based upon our positive experience with Mr. Kearney and the Egg Harbor Road Revitalization Project, the City of Sturgeon Bay would be happy to host another Capstone Project.

If you have any questions or need any other documentation about Sturgeon Bay's experience, please let me know.

Marty Olejniczak
Community Development Director
City of Sturgeon Bay, WI

It was a pleasure to be part of Connor's Capstone project experience. Tim Anderson, Connor and I met several times to see project progression and to discuss opportunities in planning and design. As you know from Connors final document and throughout his course work, the site he chose is a project that the Downtown Professionals Group has been discussing for a number of years. The Downtown Professionals have only scratched the surface since we are a volunteer group. Connor was able to take the tunneling of John Nolen Drive and creation of an expanded Law Park to another level. His Capstone not only serves as a great student project but will help our efforts in turning ideas into reality.

Over the 2 semesters we met about once a month to discuss the current steps Connor was making in preparation of his project. We enjoyed our meetings and had great conversation. Connor far exceeded what I thought he would accomplish with his written document and 3D model of the site. He listened and participated very professionally throughout. Baird is lucky to have Connor starting his professional career in their office. Lars Barber will enjoy Connor's enthusiasm in Landscape Architecture.

Overall I had a great experience being part of a Capstone project. Thank you for the opportunity! We are looking forward to Connor being part of our Downtown Professionals Group in the future!

Daniel J Williams, ASLA, APA
Downtown Professionals Group
Madison, WI

I would like to thank you for letting us (Village of Rock Springs, Committees, Groups, and Individuals) to partake in the Capstone project with Tyler. He was given a great deal of disjointed input and was able to make an excellent plan from it.

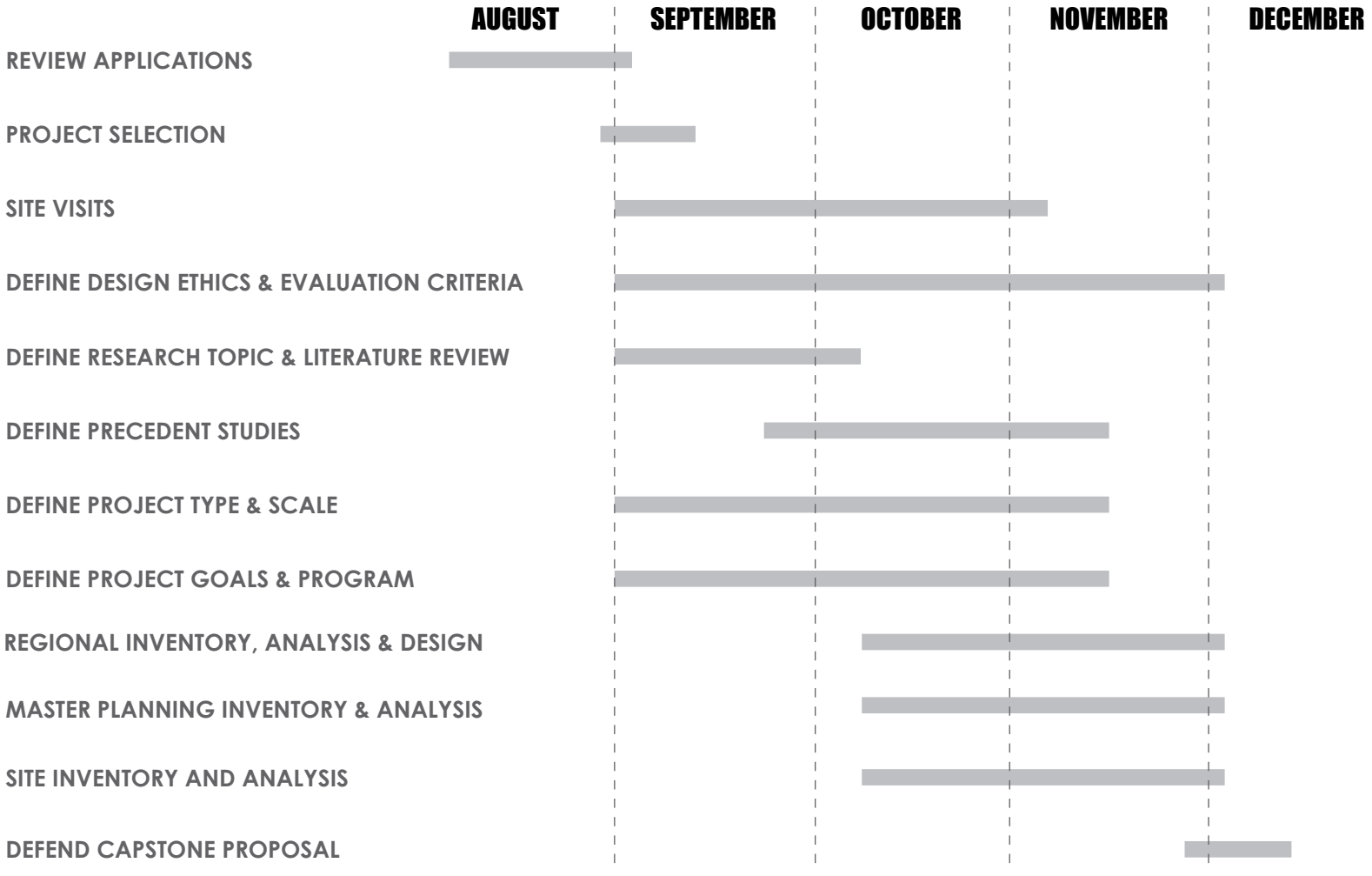
Our team members are very excited about Tyler's vision for our Greenspace, and Downtown areas. It gives us a good visual target and will help us to continue raising the money it will take to implement the plan.

Jamie Busser
Village Trustee, Parks & Recreation Chairman
Village of Rock Springs, WI

SEMESTER 01

Capstone Proposal - Research, Inventory, and Analysis
Instructor: Eric J. Schuchardt, MLAUD, ASLA

The first semester is about developing the Capstone proposal from a regional to site scale. Throughout the semester students make several site visits with clients to gain a better understanding of local conditions and the client's expectations. The final proposal document is grounded in research and includes literature reviews, precedent studies, programmatic development, and inventory and analysis that address issues from ecology to public/private partnerships.

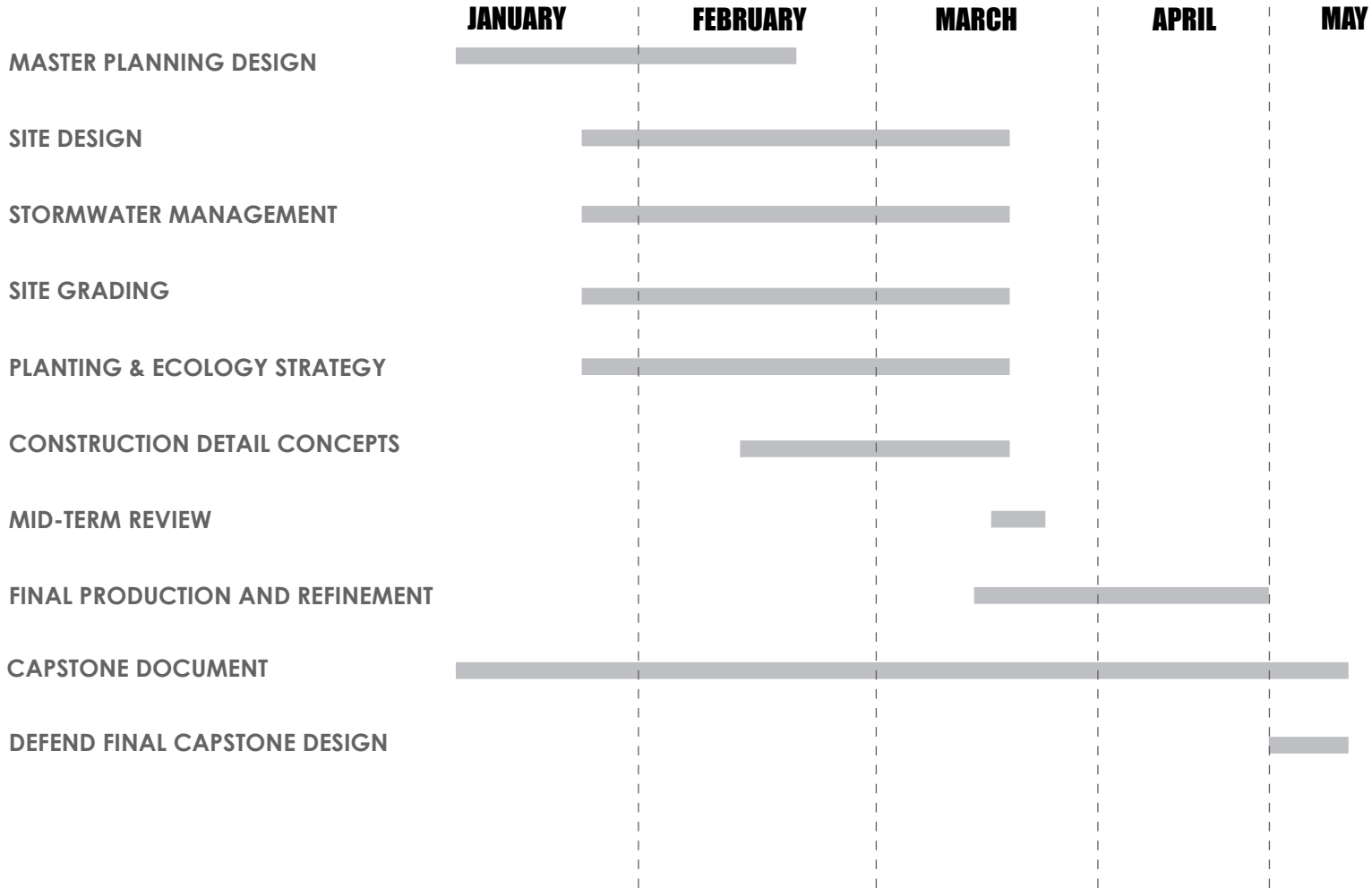


SEMESTER 02

Capstone Design

Instructor: Eric J. Schuchardt, MLAUD, ASLA and Shawn T. Kelly, PLA, FASLA

The second semester is less about research and analysis, and more about executing the design of the previous semester's proposal. Eventually this leads to planting, grading, drainage, details, and open space design schemes that are presented to the public during the month of May. Each community also receives a comprehensive design and planning Capstone document that captures all the work produced from both the fall and spring semesters.




WATER


FRONTS

Barge Distribution Center

RETHINKING OUR FOOD SYSTEMS

STUDENT: Julia Schilling
LOCATION: Milwaukee, WI
CLIENT: Michelle Miller, UW-Center for Integrated Agricultural Systems
STEERING COMMITTEE: Bill Holloway, Ernie Perry, Ben Zietlow, Anne Reynolds, Sage Kokjohn, Nancy Chachula, Alfonso Morales, Kelly Maynard
TOTAL PROJECT HOURS: 741
TYPE OF PROJECT: Barge Delivery Food Hub

PROJECT GOALS

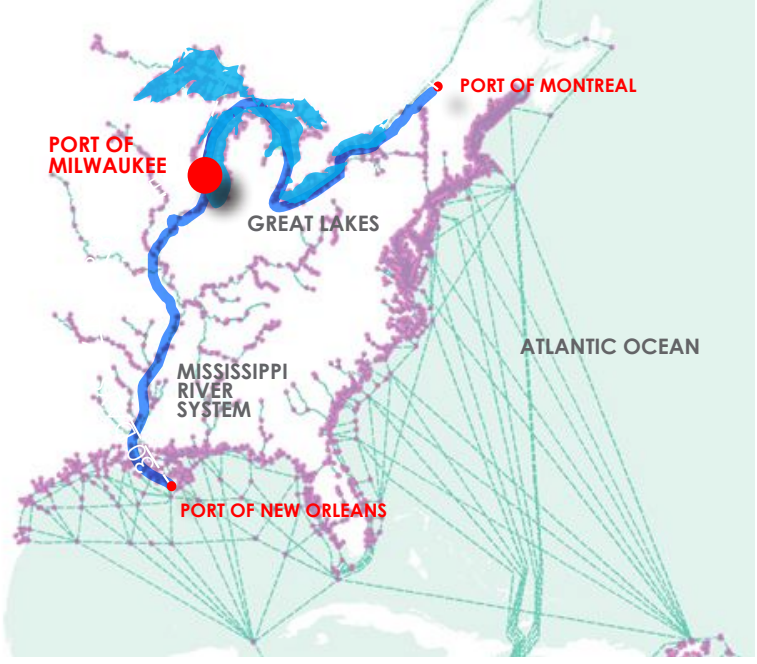
1. Explore a framework that integrates local food in a regional system
2. Foster partnerships with Milwaukee's existing food & water hubs
3. Provide a platform for food & water education
4. Reduce greenhouse gas emissions & traffic congestion
5. Utilize renewable resources through alternative fuel options for food distribution
6. Create an awareness of food miles & health costs
7. Celebrate agricultural diversity & cultural heritage

PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of health equity may inform the design of a barge delivery food hub located at the Port of Milwaukee.

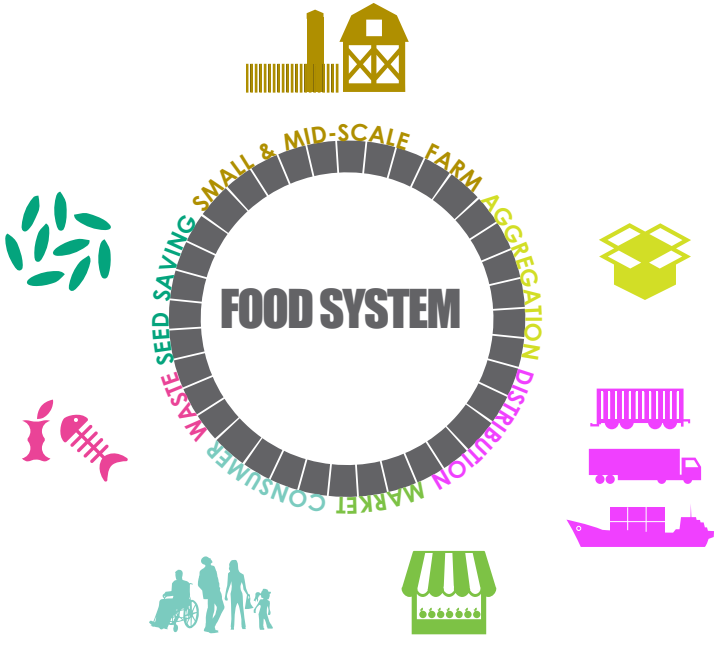
Situated on Lake Michigan at the northernmost port of the Mississippi river system, intersecting three major rivers, with two on-site rail lines and within a half mile of two major highways, the derelict Solvay Coke and Gas site is the ideal testing ground for exploring the potential of a multi-modal food distribution network.

Food system transparency, food accessibility, public waterfront access, and brownfield remediation are integral components of this proposal. The design strategies and research for this project will be used to communicate the greater regional and community impacts of creating a decentralized food distribution system in alliance with the UW-Center for Integrated Agricultural Systems and an interdisciplinary team invested in rethinking the future of our food systems.

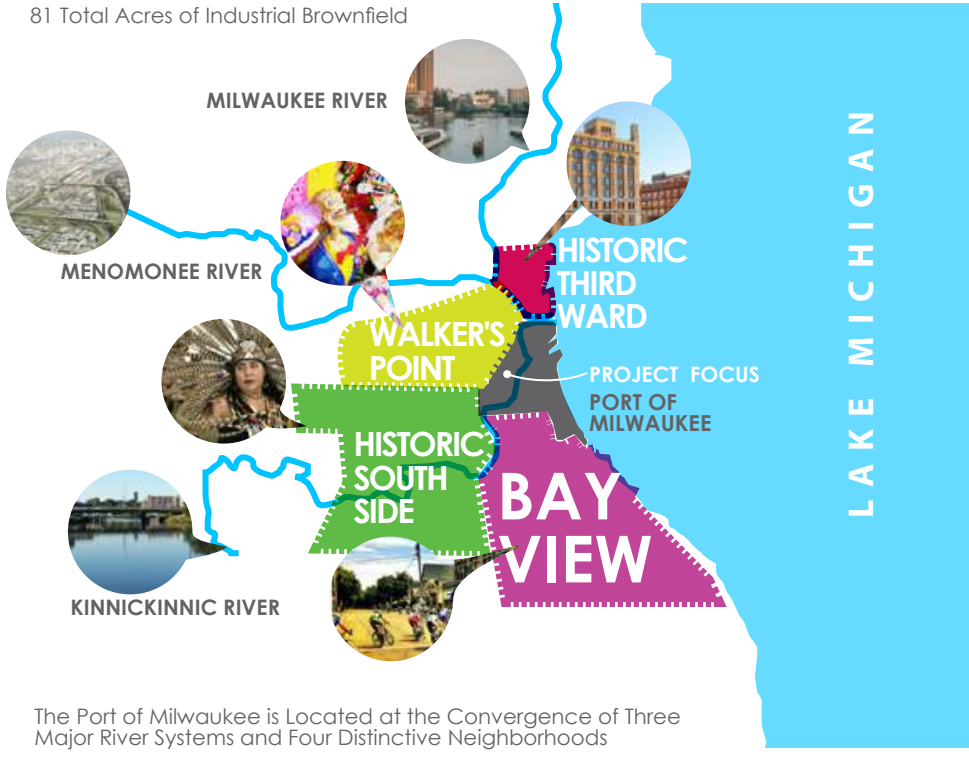


Port of Milwaukee's Regional Connections

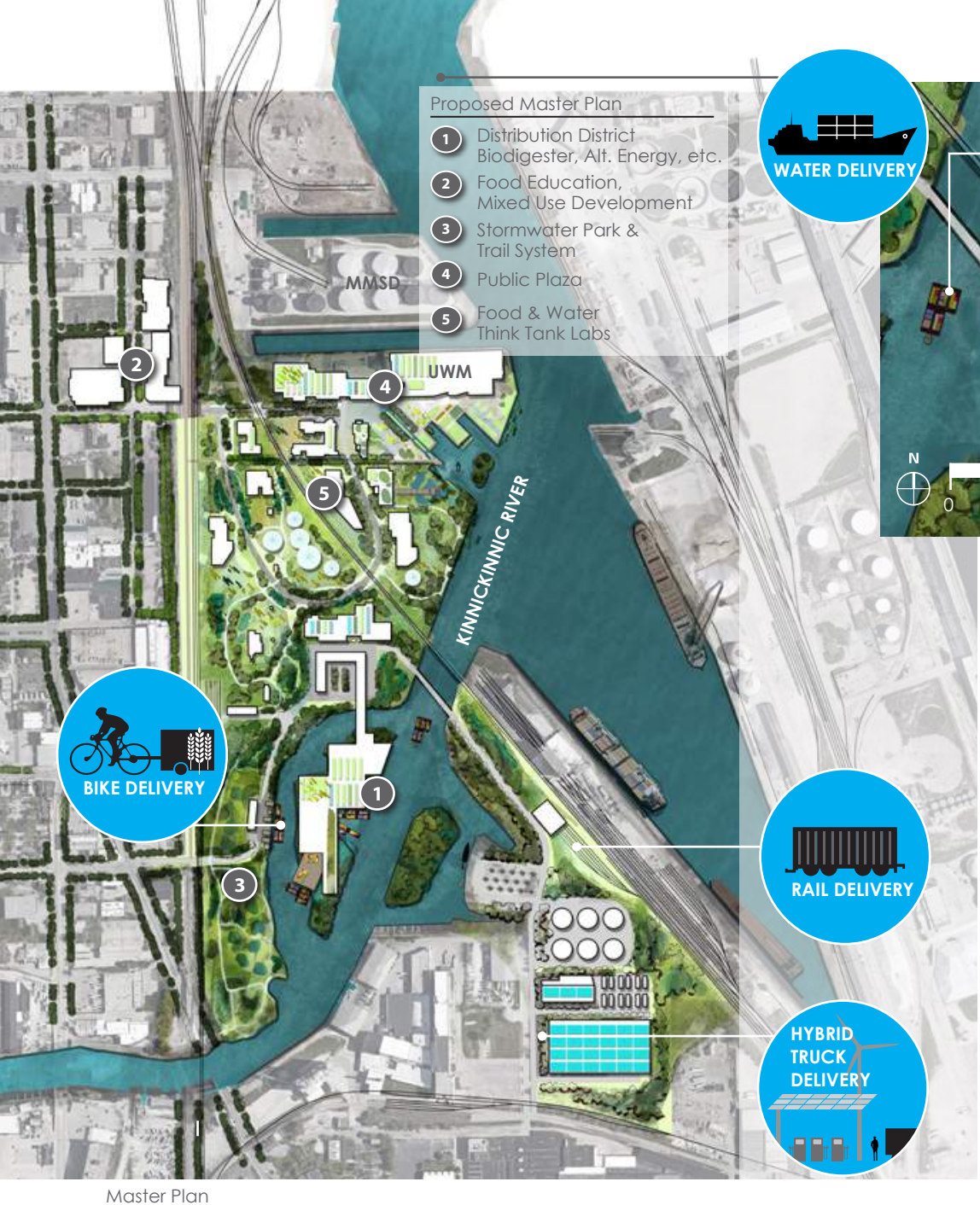
81 Total Acres of Industrial Brownfield



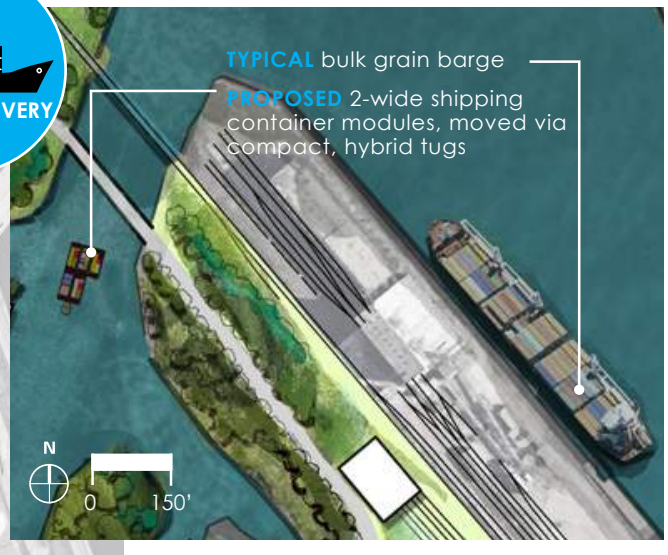
Food System Players

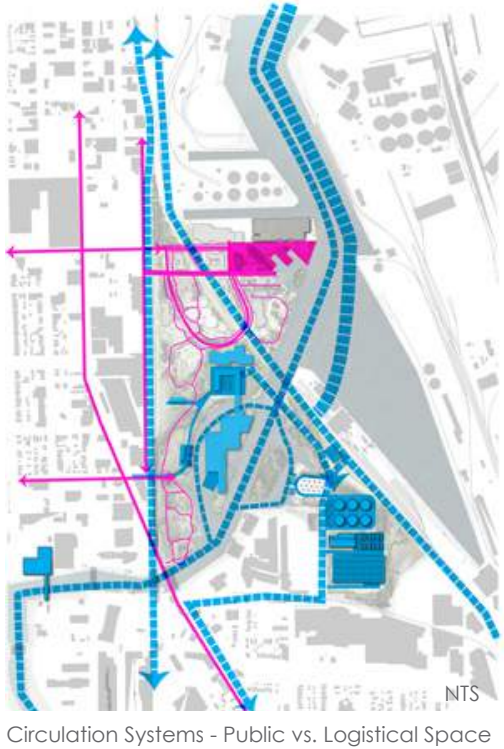


The Port of Milwaukee is Located at the Convergence of Three Major River Systems and Four Distinctive Neighborhoods

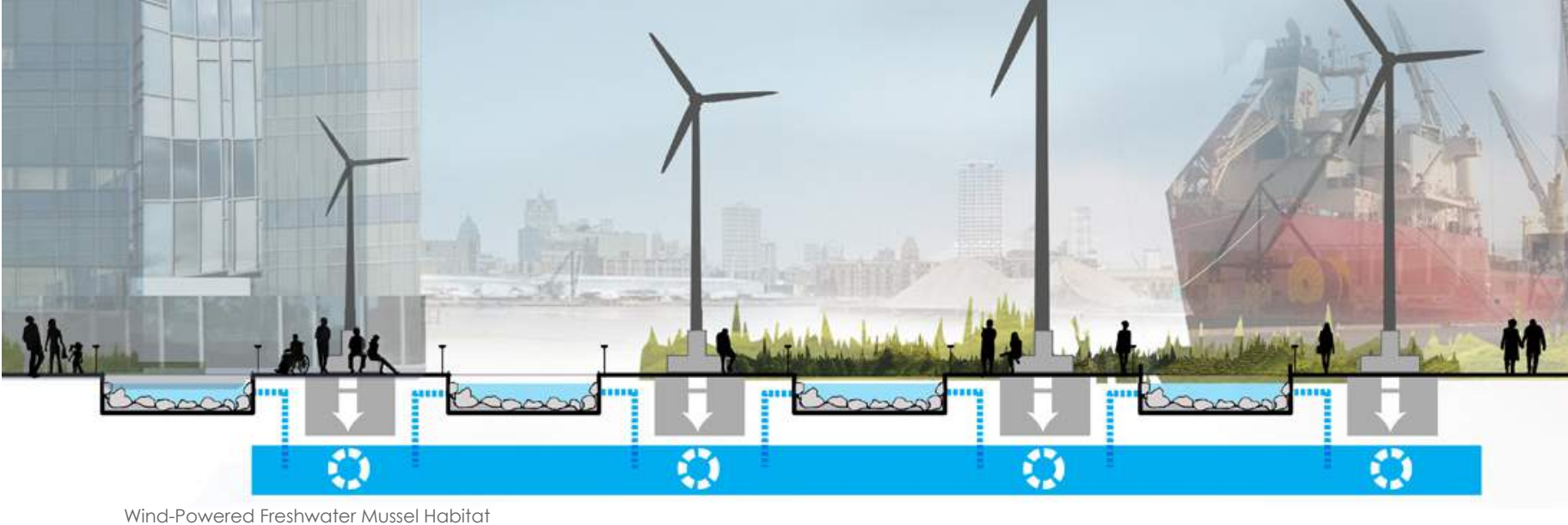


Master Plan





Circulation Systems - Public vs. Logistical Space



Wind-Powered Freshwater Mussel Habitat

"Floating Forest" Functions as a Phytoremediation Strategy for Soil

Interactive Edges - Floating Food Carts in Public Plaza

Wingra Creek and Adjacent Site Development

WINGRA CREEK MASTER PLAN

STUDENT: Peter Clark
LOCATION: Madison, WI
CLIENT: Friends of Lake Wingra
STEERING COMMITTEE: Ben Yahr
TOTAL PROJECT HOURS: 749
TYPE OF PROJECT: Waterfront Revitalization

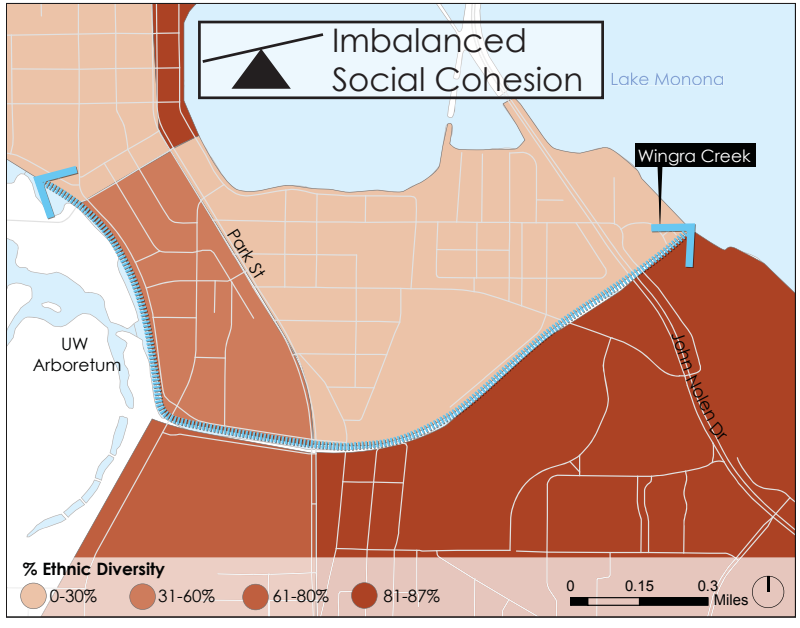
PROJECT GOALS

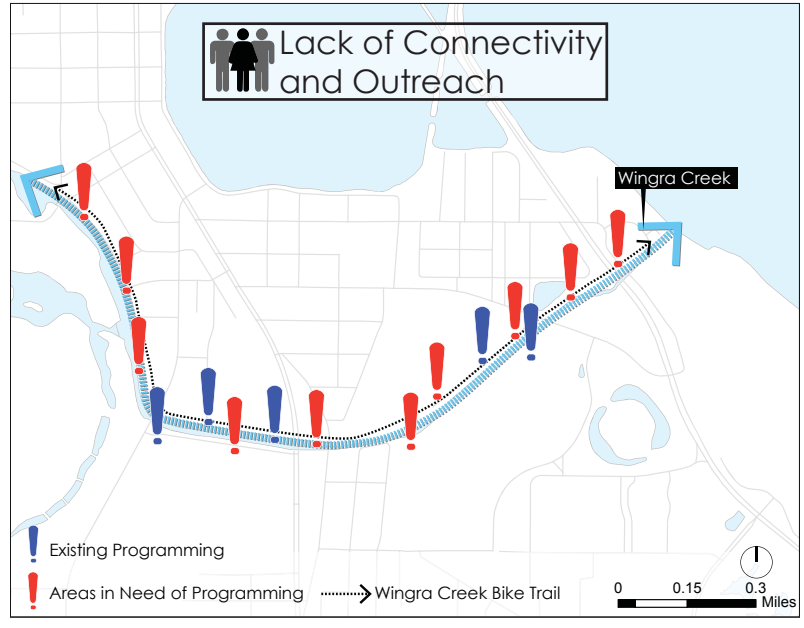
1. Improve the environmental quality of the Wingra Creek and promote bio-diversity
2. Provide more programming and outreach to attract future investment from surrounding communities
3. Improve land use compatibility with new zoning
4. Promote development that helps to unify the surrounding socio-economic classes along the creek

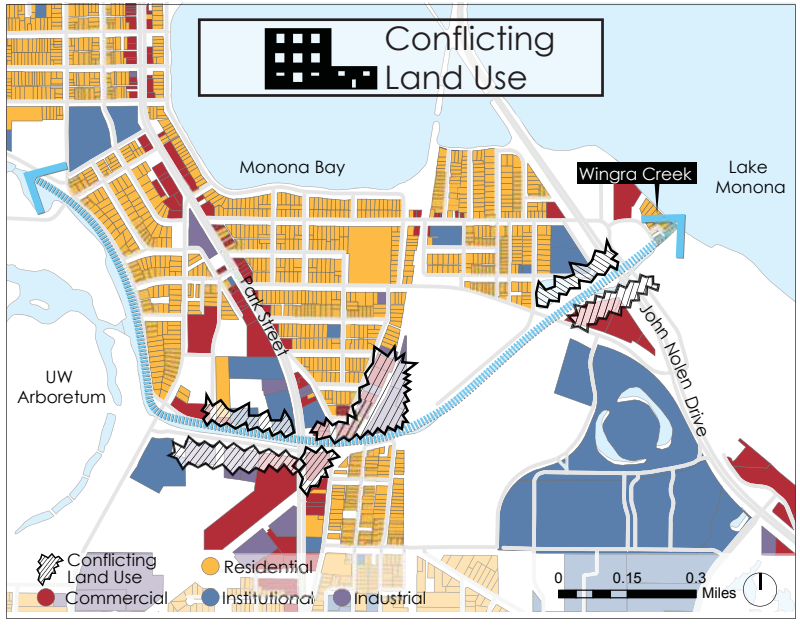
PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how the economic value of green space may inform the redevelopment of the Wingra Creek corridor.

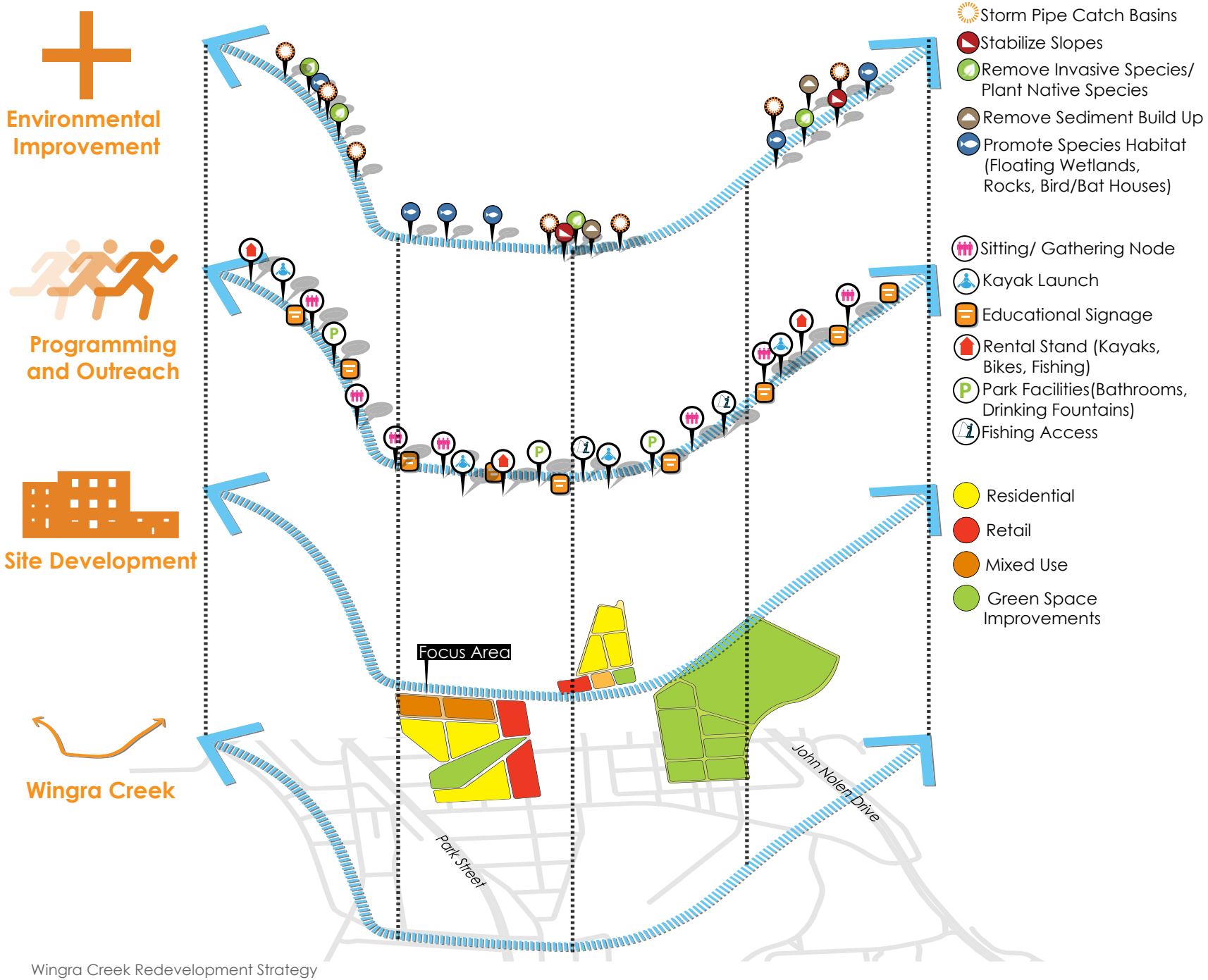
Wingra Creek is a two mile long urban waterway located in the southern portion of the Madison and runs from Lake Wingra to Lake Monona. The proposed capstone vision for the Wingra Creek seeks to build off of the previous Wingra Creek Plan set forth by the City of Madison and explore how creek revitalization strategies, along with programming and outreach, can transform the creek corridor into a prominent public parkway for south Madison communities.







Community Analysis


Environmental Improvement
Programming and Outreach
Site Development
Wingra Creek
Storm Pipe Catch Basins
Stabilize Slopes
Remove Invasive Species/ Plant Native Species
Remove Sediment Build Up
Promote Species Habitat (Floating Wetlands, Rocks, Bird/Bat Houses)
Sitting/ Gathering Node
Kayak Launch
Educational Signage
Rental Stand (Kayaks, Bikes, Fishing)
Park Facilities(Bathrooms, Drinking Fountains)
Fishing Access
Residential
Retail
Mixed Use
Green Space Improvements
Focus Area
John Nolen Drive
Park Street

Existing Creek Form

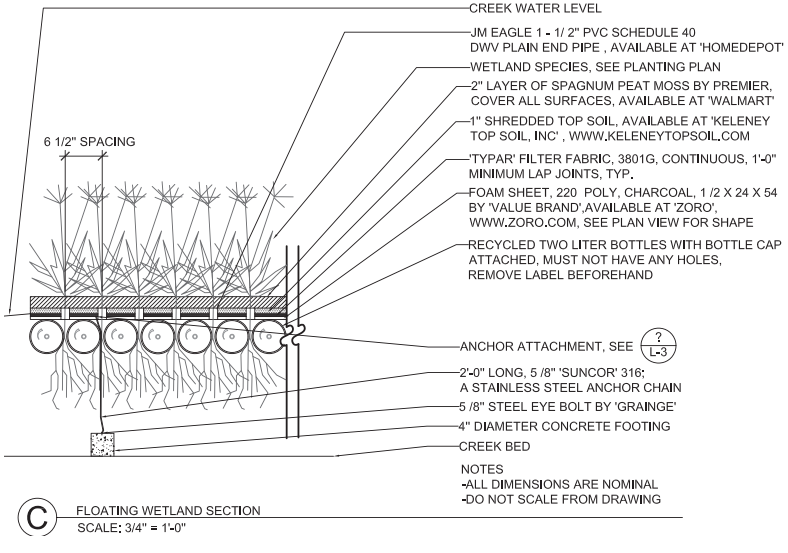
Proposed Creek Form

Floating Wetland Construction Detail

Easily constructible and engages community members and adjacent schools

Uses recycled/affordable material that are easy to acquire

Cost effective solution to cleaning water and creating meanders in the creek



Floating Wetland Construction Detail

Master Plan

HARBORING MOMENTUM: CONNOR'S POINT

STUDENT: Lauren Blankenship
LOCATION: Superior, WI
CLIENT: City of Superior Planning
TOTAL PROJECT HOURS: 725
TYPE OF PROJECT: Urban Waterfront & Industrial Park Expansion

PROJECT GOALS

1. Expand the industrial park at Connor's Point and promote job creation within the undeveloped region of the site
2. Integrate surrounding sites and provide amenities that foster connections among the community
3. Encourage education through university and industry advocacy initiatives
4. Promote a sense of place for the City of Superior by supporting social interaction and creating a destination space
5. Sustain the ecological functions and interactions among the biodiversity of the site and harvest renewable energy

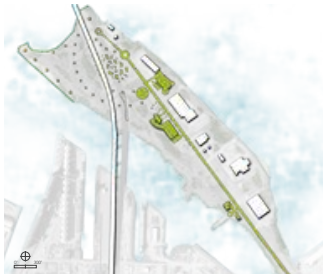
PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of environmental sociology may inform the design of a waterfront and industrial park.

Superior, Wisconsin thrives on its industries and strong contribution to the global economy. With nearly half of its landmass dedicated to industrial sites, manufacturing, and business, the community surrounding Superior depends on exchange.

Connor's Point, a 100-acre peninsula, located on the northernmost tip of Douglas County in Superior, Wisconsin serves as a vital piece of land to continue this economic growth. With its prime location adjacent to the Duluth-Superior Port, servicing the Great Lakes Seaway System, it has the potential to serve as an iconic entity in the region.

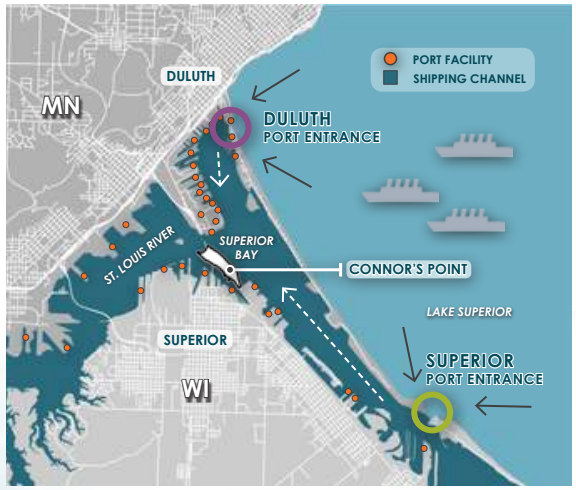
This project emphasizes the connection between industry and community engagement. Eco-industrialism principles are implemented in order to harvest renewable energy sources, while also educating the surrounding establishments and community.



PHASE I YEARS: 1-3

PHASE II YEARS: 4-5

PHASE III YEAR: 6



St. Louis River

Superior Bay

WIND TURBINE PARK

DOCK RESTORATION

STORMWATER MANAGEMENT PARK

PLAZA

BOARDWALK TRAIL SYSTEM

EXISTING INDUSTRY

WETLAND

PROPOSED INFRASTRUCTURE

PROPOSED WIND ENERGY FACILITY

BICYCLE TRAIL

INDUSTRY

NATURAL SPACE

TRAILS

Main Street

PROPOSED INDUSTRY

Blatnik Bridge

PROPOSED PORT DEVELOPMENT

BARKO

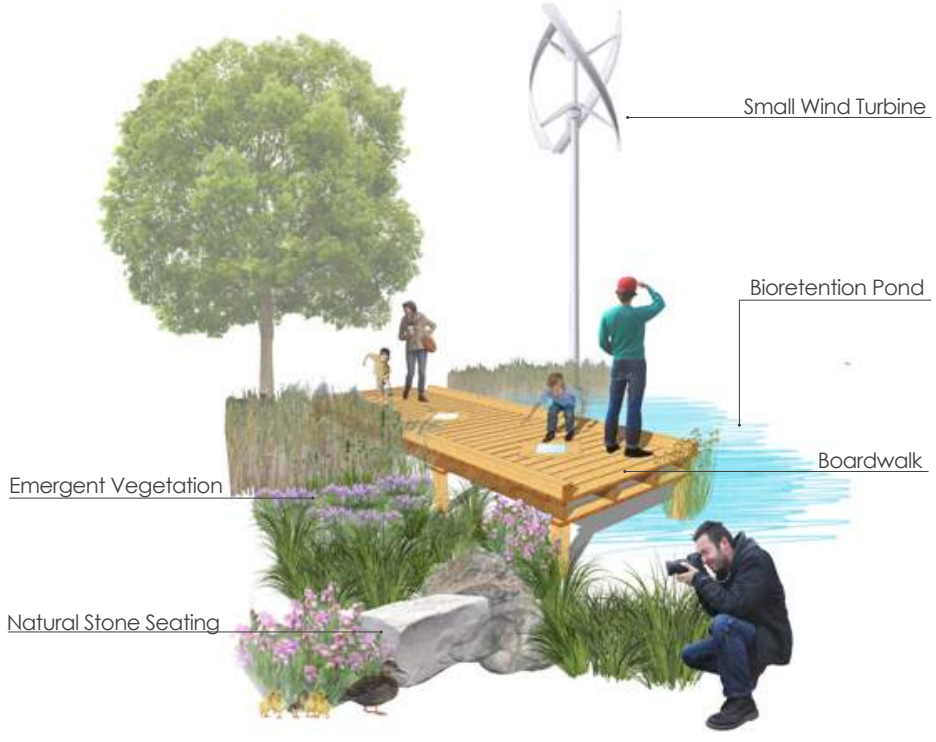
CHS, INC

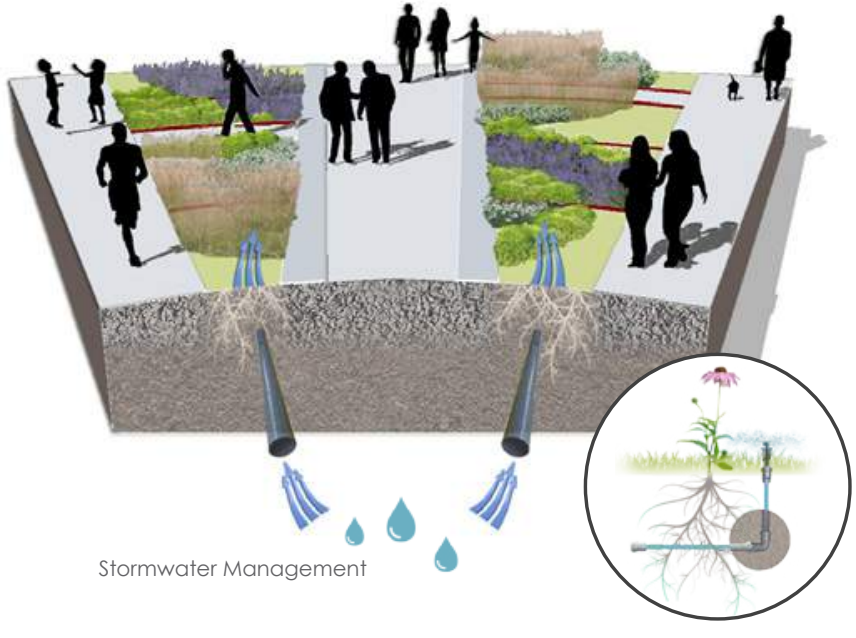
Howards Bay

HALVOR LINES

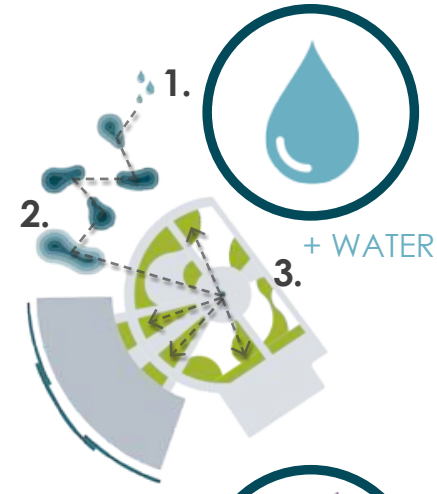
FRASER SHIPYARDS

Site Grading





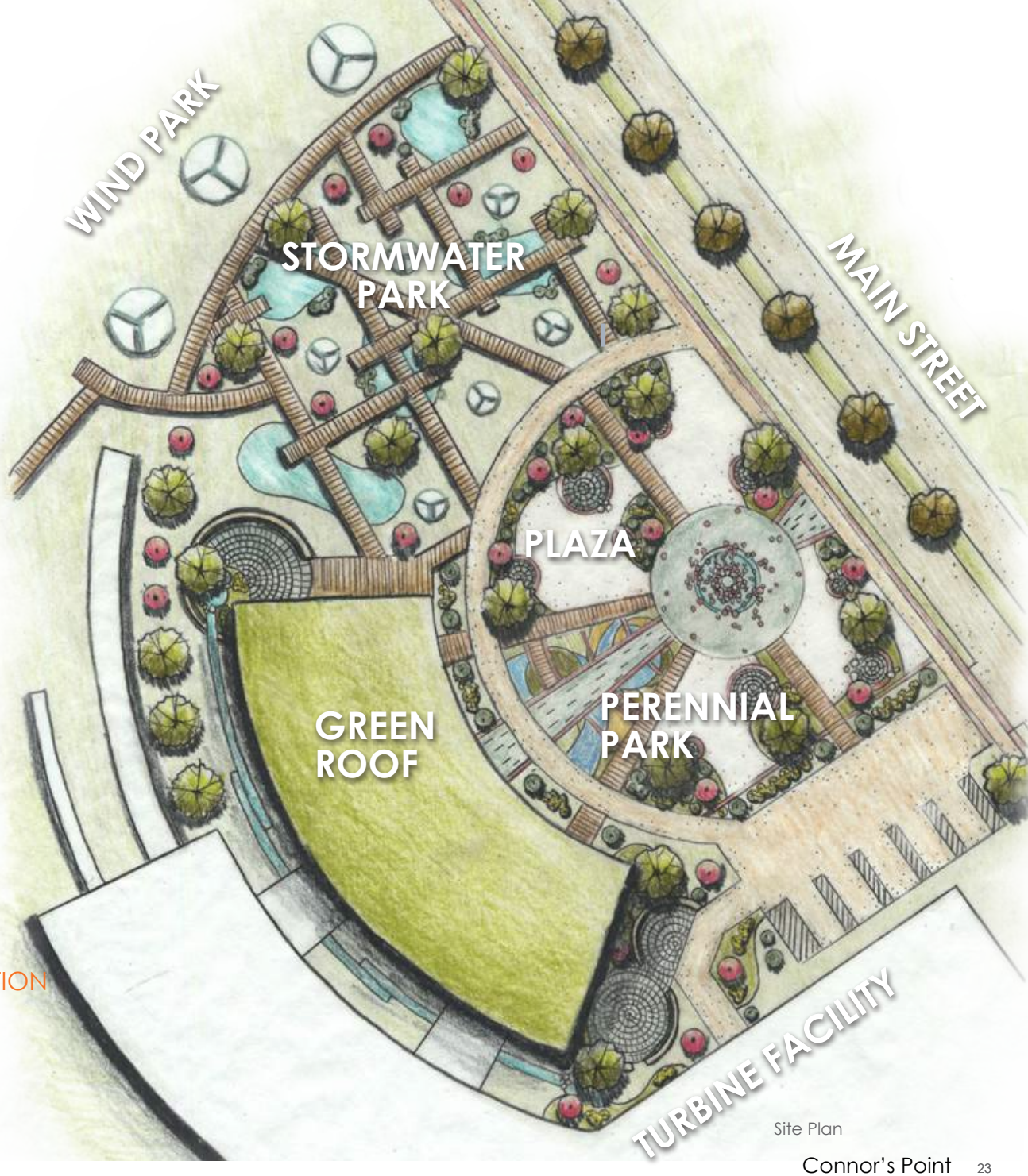
Stormwater Management



+ WATER

+ WIND TURBINE

+ CIRCULATION



Site Plan

Law Park Waterfront Elevation Change

LAW PARK WATERFRONT

STUDENT: Connor Nett
LOCATION: Madison, WI
CLIENT: Madison Design Professionals & City of Madison Planning Department
STEERING COMMITTEE: UW Madison Engineering Department
TOTAL PROJECT HOURS: 766
TYPE OF PROJECT: Urban Waterfront

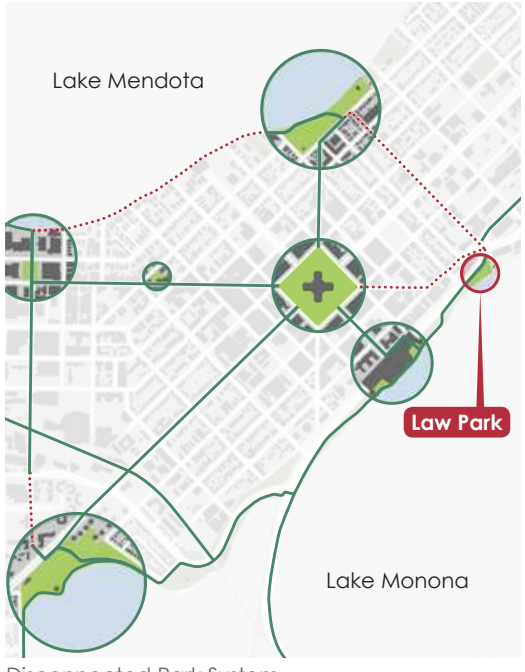
PROJECT GOALS

1. Create park amenities that improve neighborhood economic growth opportunities
2. Improve connectivity from Downtown Madison to adjacent neighborhoods and Lake Monona
3. Improve stormwater harvesting and create a diversity of on-site ecosystems
4. Implement design solutions that are unique to Madison and integrate the City's rich history

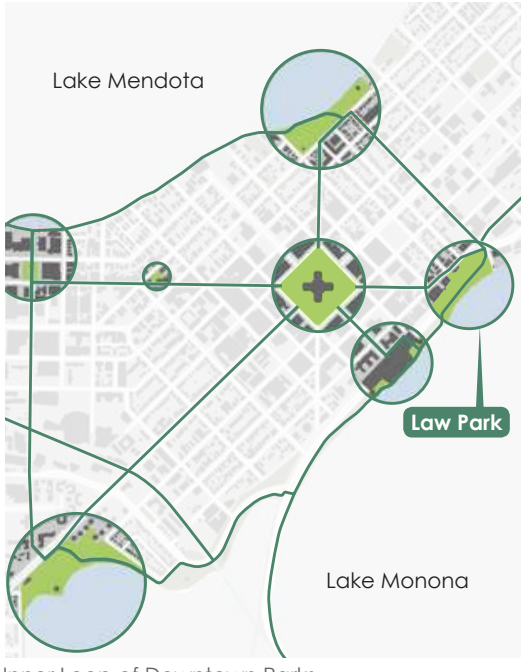
PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of public space as an economic catalyst may inform the design of an urban waterfront park. This investigation will be given context and focus by the goals and concerns of the City of Madison Planning Department and the Madison Design Professional Workgroup. The waterfront open space of Law Park in Madison, Wisconsin will be the site for this study.

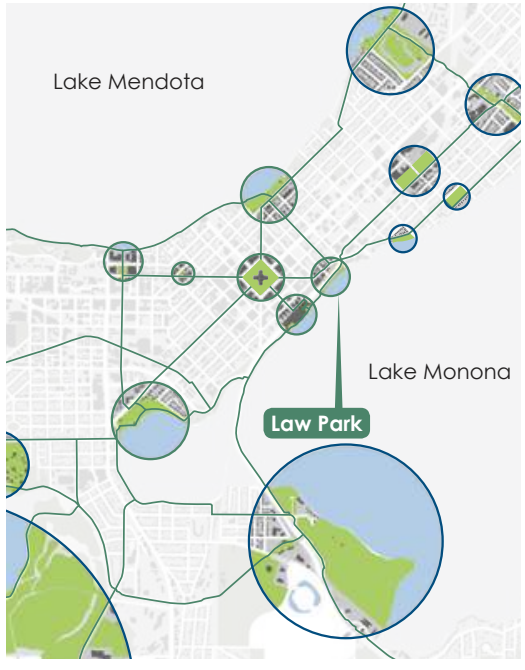
Law Park is an under utilized lakeshore open space in Downtown Madison. Heavy traffic along U.S. Highway 151 divides downtown from Lake Monona and the adjacent neighborhoods. Redevelopment of Law Park has the potential to improve Madison's economic, social and environmental characteristics.



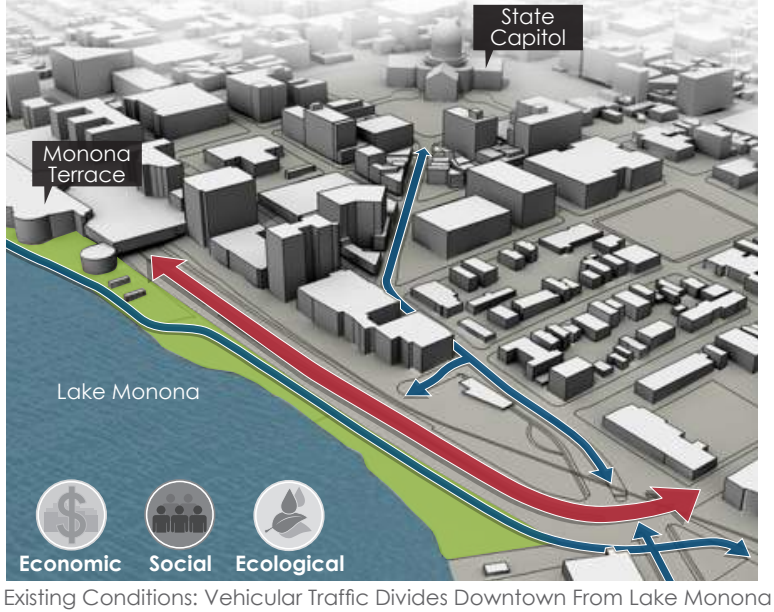
Disconnected Park System



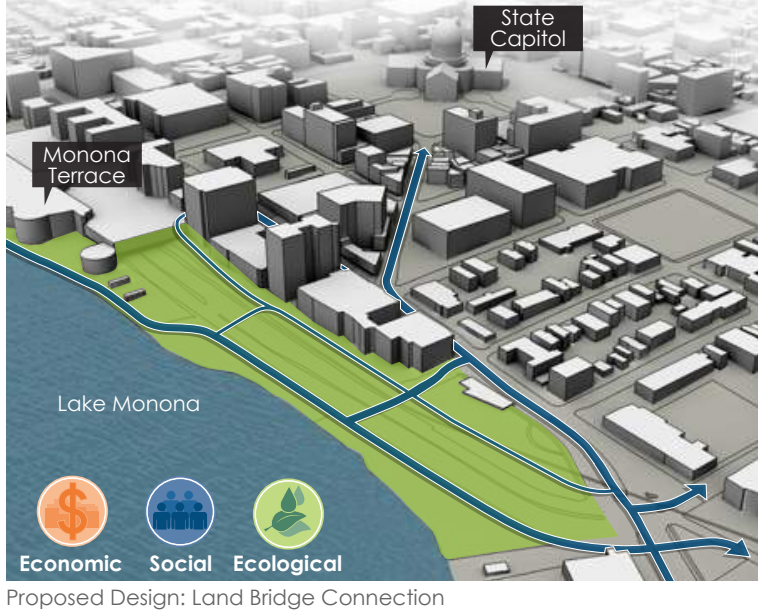
Inner Loop of Downtown Parks



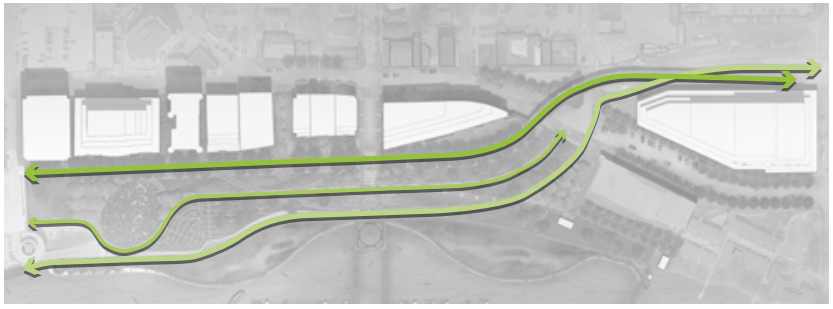
Isthmus Park Network



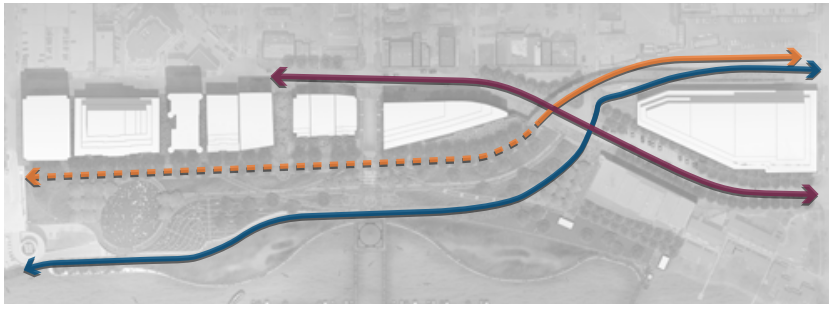
Existing Conditions: Vehicular Traffic Divides Downtown From Lake Monona



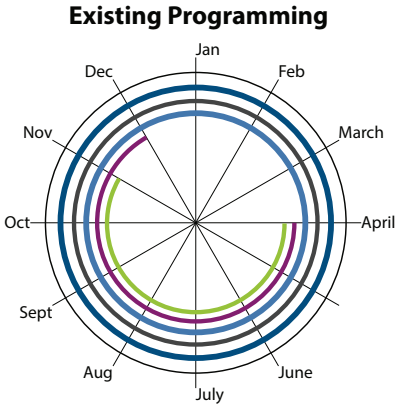
Proposed Design: Land Bridge Connection

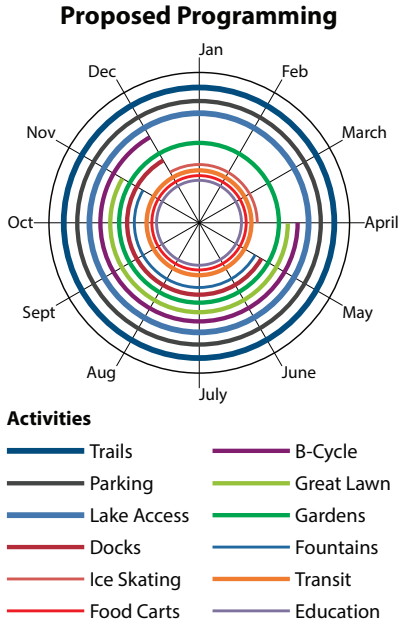


Primary Pedestrian Corridors



Bicycle Circulation





Law Park Waterfront Master Plan

Hancock Street Entrance

Great Lawn

Woodland Garden

Law Park Waterfront Redevelopment


PARKS &


ECOLOGY

Water Access: Fishing Dock and Canoe Launch

JODIE KAY BUSSER PARK

STUDENT: Tyler Gustin
LOCATION: Rock Springs, WI
CLIENT: Village of Rock Springs
STEERING COMMITTEE: Jodie Kay Busser Memorial Service, Village of Rock Springs Board
TOTAL PROJECT HOURS: 389
TYPE OF PROJECT: Park Redevelopment

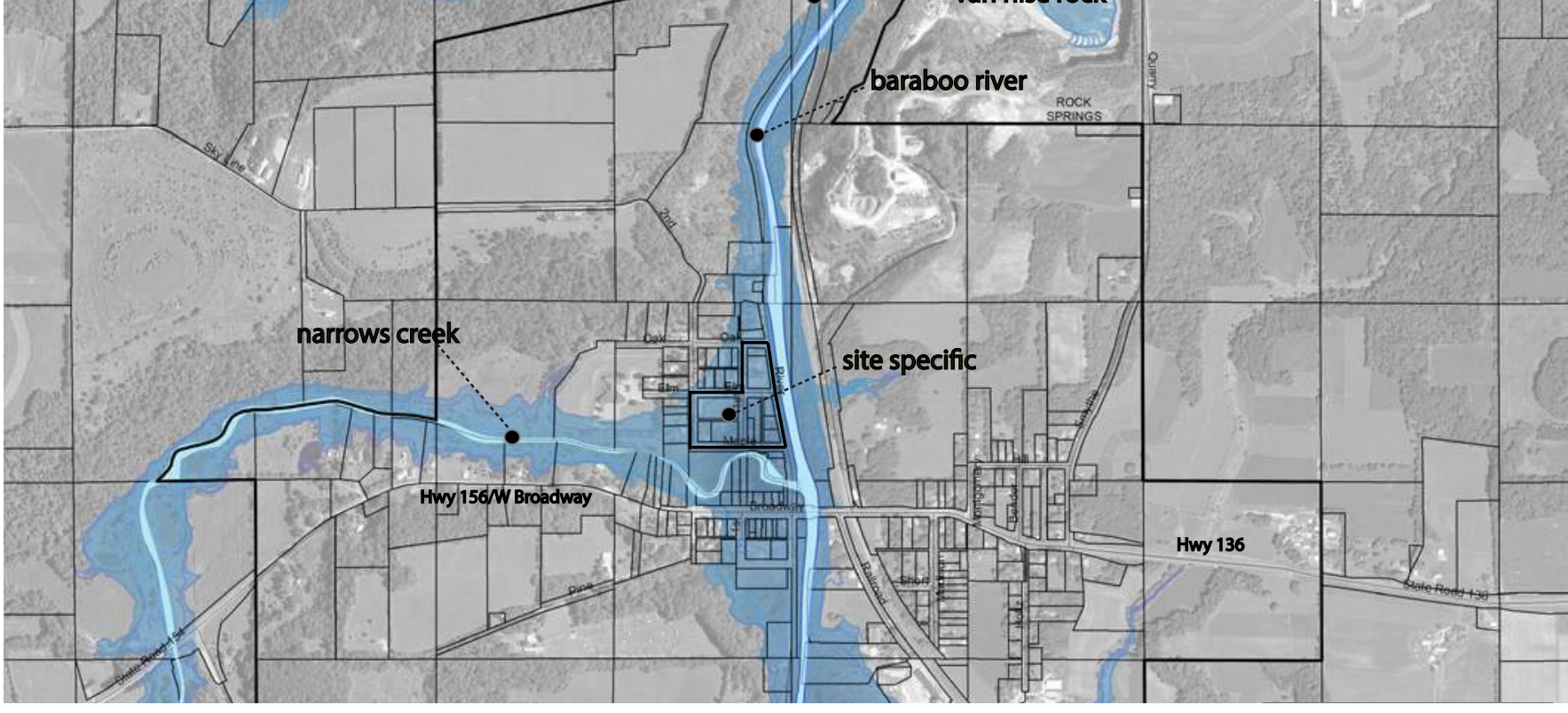
PROJECT GOALS

1. Increase rural village preservation and development
2. Improve the public park by incorporating seasonal interest
3. Establish native landscape buffers between visitor areas and residential properties
4. Celebrate the site's historical past by integrating a millstone from Ableman's Grist Mill
5. Develop a recreational use of the natural artesian wells
6. Integrate existing regional hiking and state bicycle trails
7. Improve stormwater management, flood control, and water access to Narrows Creek and the Baraboo River

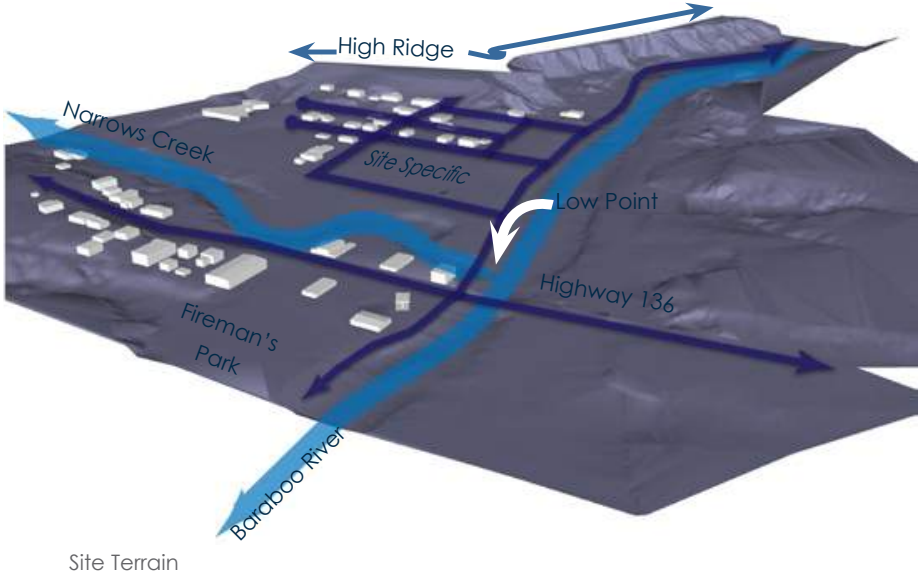
PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how advanced ideas of stormwater management may improve Jodie Kay Busser Park and its existing habitat.

After developing a list of goals the primary focus was developing a village park able to accommodate the various types of existing and proposed program elements. This led to using the natural artesian wells as stunning water features and as a subsurface stormwater runoff control throughout the site. Recreational areas for camping, fishing, and ice skating were providing to improve visitor experiences and provide recreation opportunities throughout the four seasons. Overall the final design functions as a model to help revitalize the village and connect it to the environment.

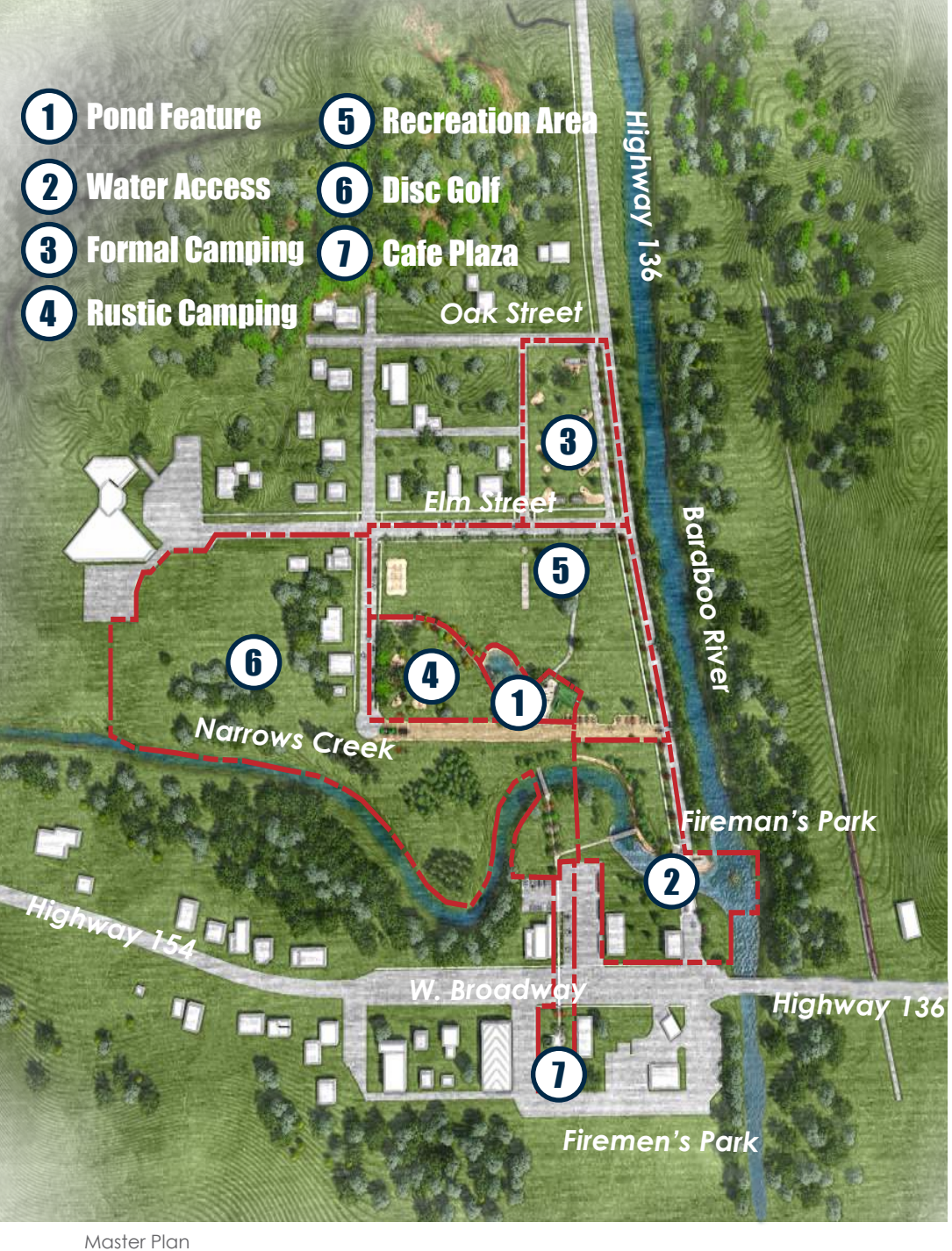


100 -Year Flood Plain



Site Terrain

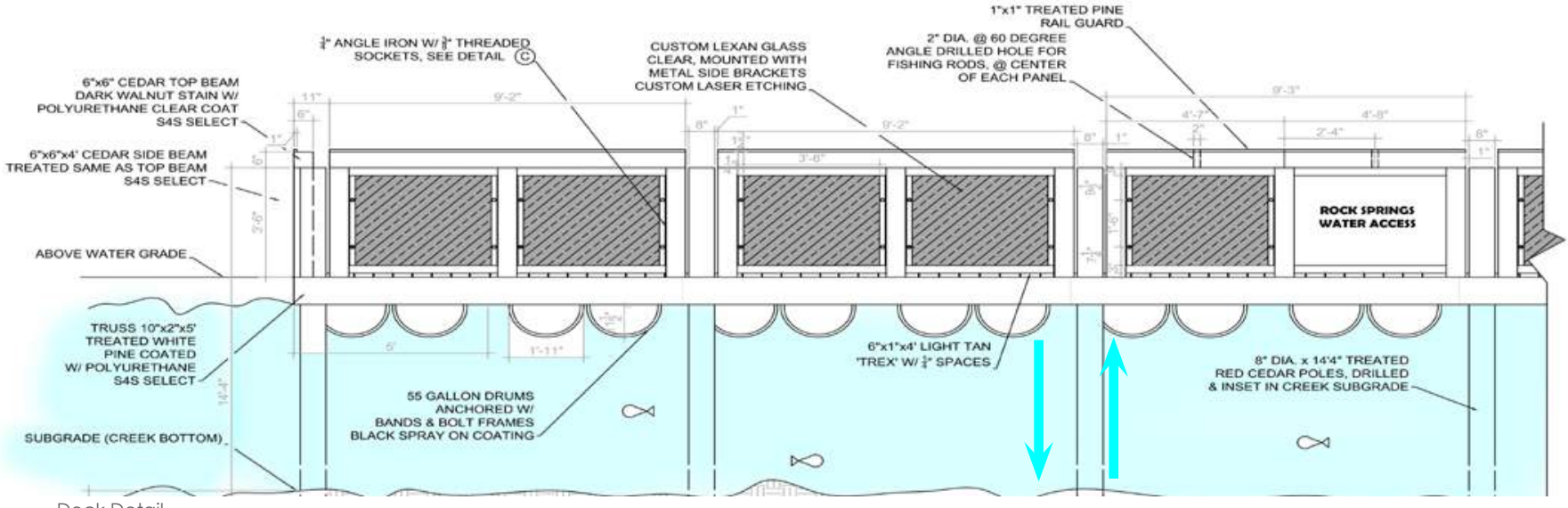
Existing Site Panoramas



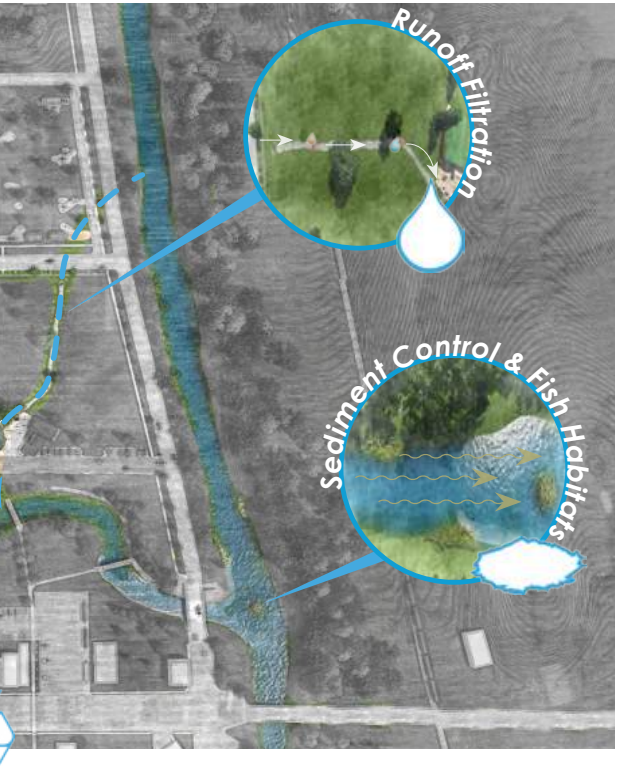
Master Plan

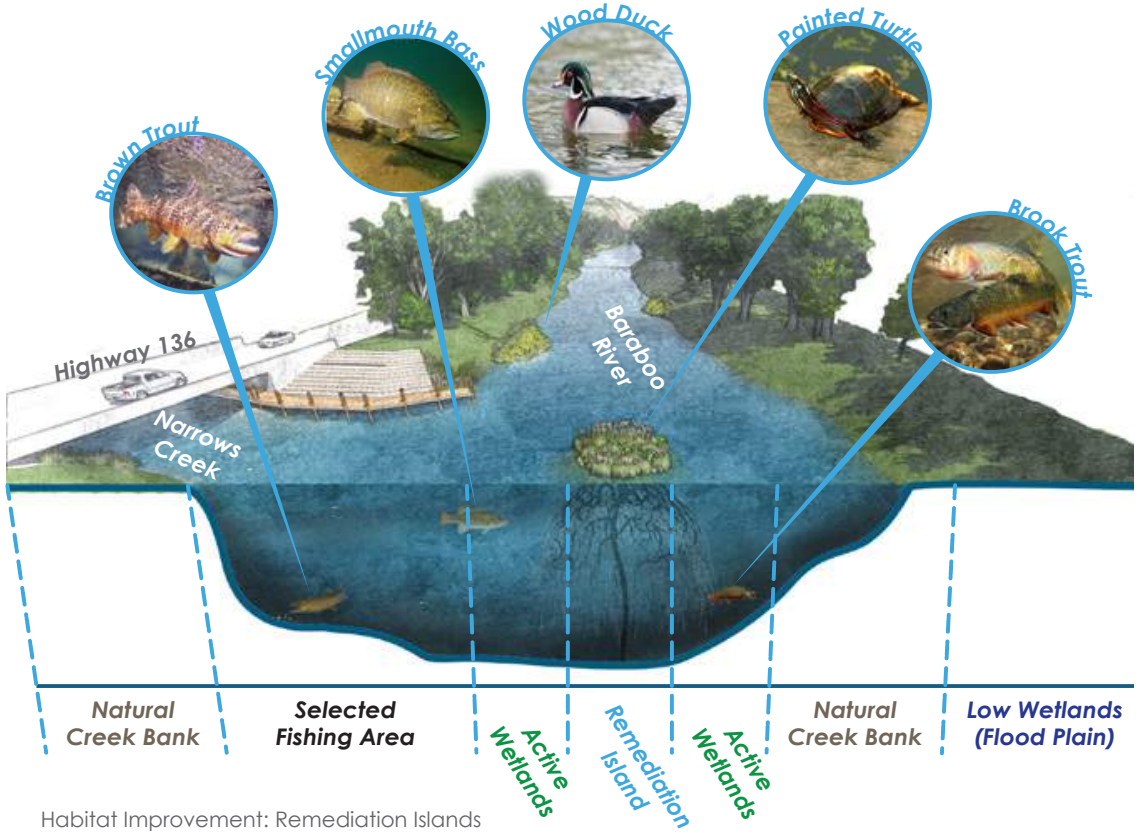
Water Flow Control

Stormwater Management Strategy



Dock Detail





Habitat Improvement: Remediation Islands

Providing Passive Recreation Opportunities

PARK SYSTEM DEVELOPMENT

STUDENT: Adam Kaniewski
LOCATION: Village of Merton, WI
CLIENT: Village of Merton, WI
STEERING COMMITTEE: Village Board
TOTAL PROJECT HOURS: 548
TYPE OF PROJECT: Park System Development

PROJECT GOALS

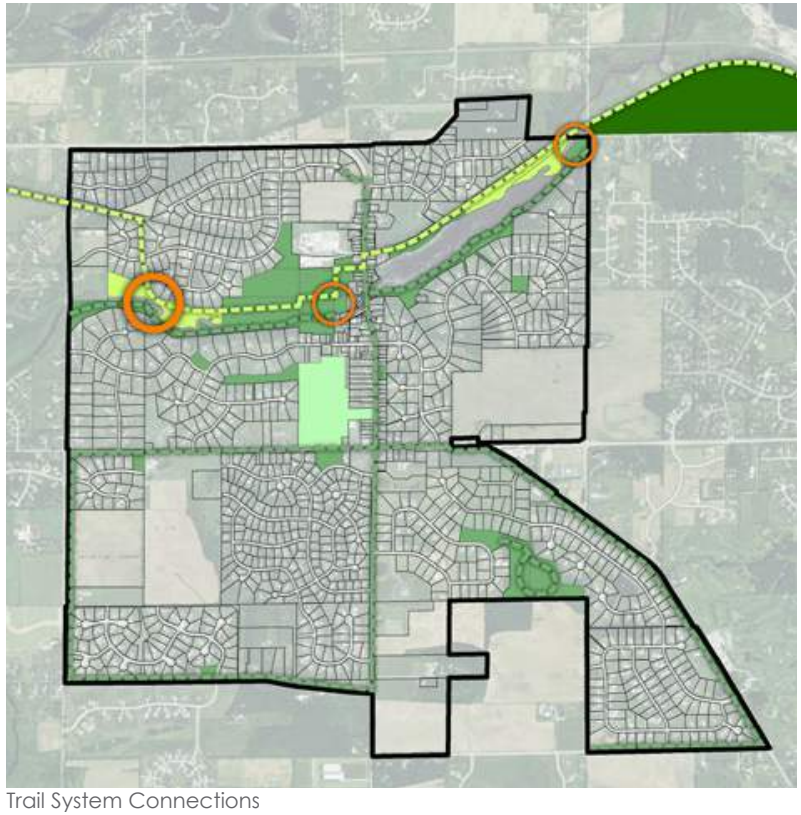
1. Prepare plans and documents to help guide future outdoor recreation decisions for the Village of Merton
2. Improve passive recreation opportunities
3. Improve wayfinding and connectivity between all parks and Main Street

PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of public health may inform park system development and community park design.

This project examines the Village of Merton's open space and trail systems to help develop a comprehensive outdoor recreation plan along with the redesign of the existing Pollworth, Fireman's, and Merton Millpond Parks. The project explores existing conditions and recommends improvements to public access, connectivity, and use of recreational areas to help improve community public health.

Extent of Residential Areas Serviced by Each Park


Trail System Connections

Public Land Ownership

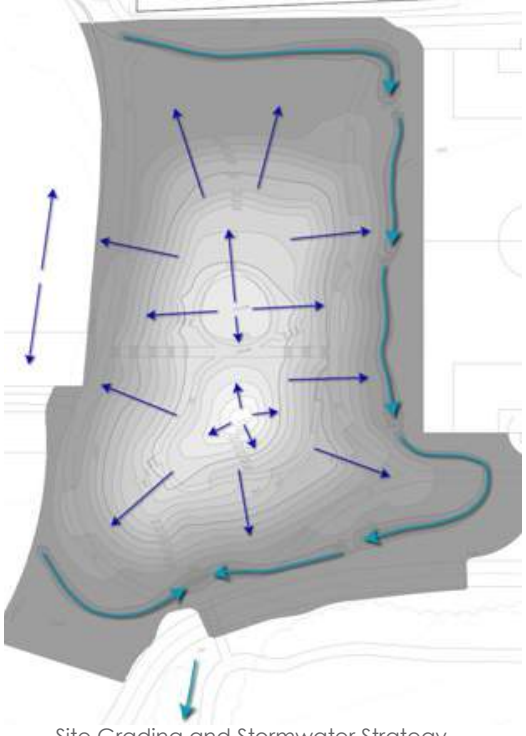
- Town of Lisbon
- Merton Community School District Land
- Village of Merton Land
- Waukesha County Land
- Village of Merton Trail
- Waukesha County Trail
- Proposed Park Service Area
- Existing Park Service Area
- Proposed Trail Connection


Regional Trail System

Master Plan

Site Section

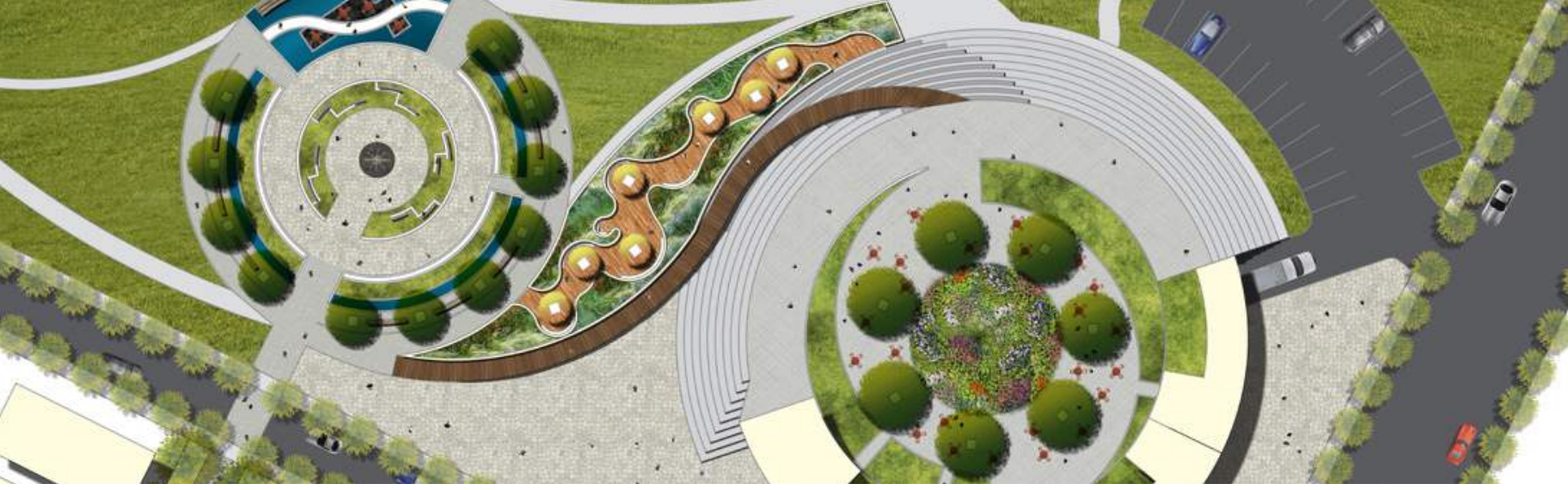
Site Plan



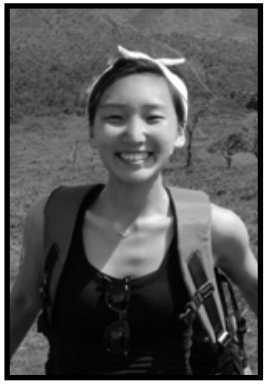
Site Grading and Stormwater Strategy

Stormwater Swale System

Terraced Seating Areas



Multi-functional Public Park and Commercial Node



OLDE NORTH NEIGHBORHOOD FLOODPLAIN PLANNING

STUDENT: Lyn Kim
LOCATION: Green Bay, WI
CLIENT: City of Green Bay Community Services Agency
TYPE OF PROJECT: Floodplain Strategic Planning

PROJECT GOALS

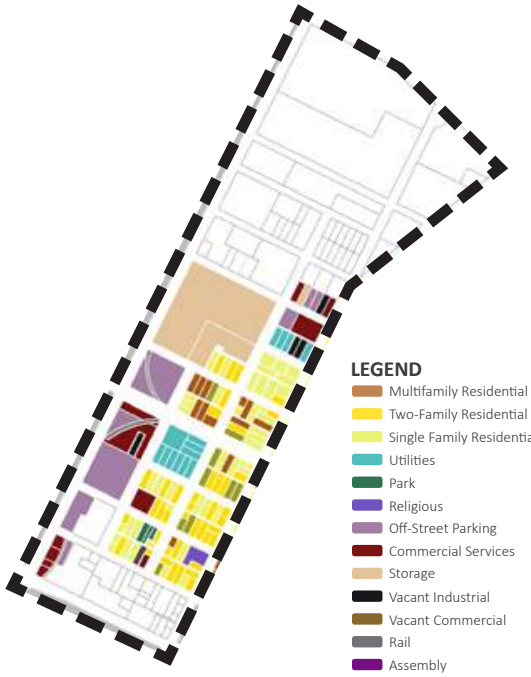
1. Research various floodplain management and redevelopment practices
2. Develop connections between regional green infrastructure that promotes healthy living, working and learning environments
3. Develop multiple options for floodplain area mitigation that results in a plan for a sustainable future for the Olde North Neighborhood

PROJECT BACKGROUND

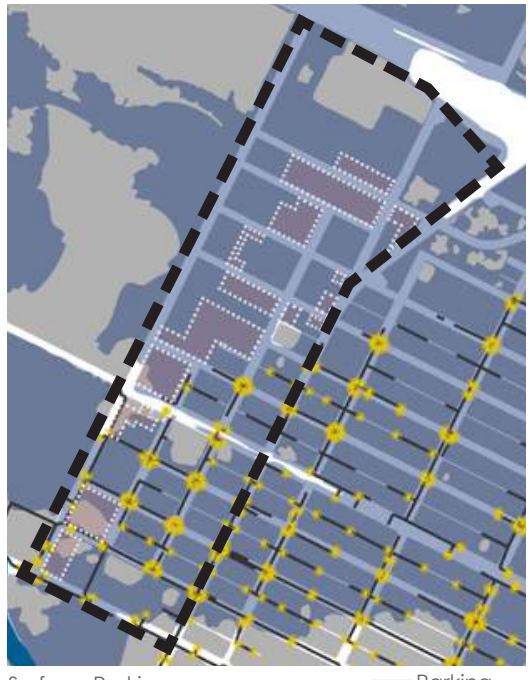
To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of environmental justice may inform floodplain strategic planning.

Green Bay's Olde North Neighborhood offers a unique connection to Green Bay's rich industrial legacy and serves as a major gateway between the city's downtown and the Bay Beach district. Located between an active industrial site and a quickly re-energizing community occupied by highly participatory residents, the site holds opportunities for economic and social improvement as well as environmental rejuvenation. Through research and analysis of the site's current conditions, various floodplain management methods, client and stakeholder inputs, and review of successfully integrated mitigation precedents, this proposal will serve as a framework for the redevelopment of the Olde North Neighborhood.

By introducing new programs that resonate with the site's current conditions and its historical context, the Olde North Neighborhood may ultimately become the next big destination in both Green Bay and Wisconsin's greater Northeast region.



Existing Land Use



Surface Parking

Parking

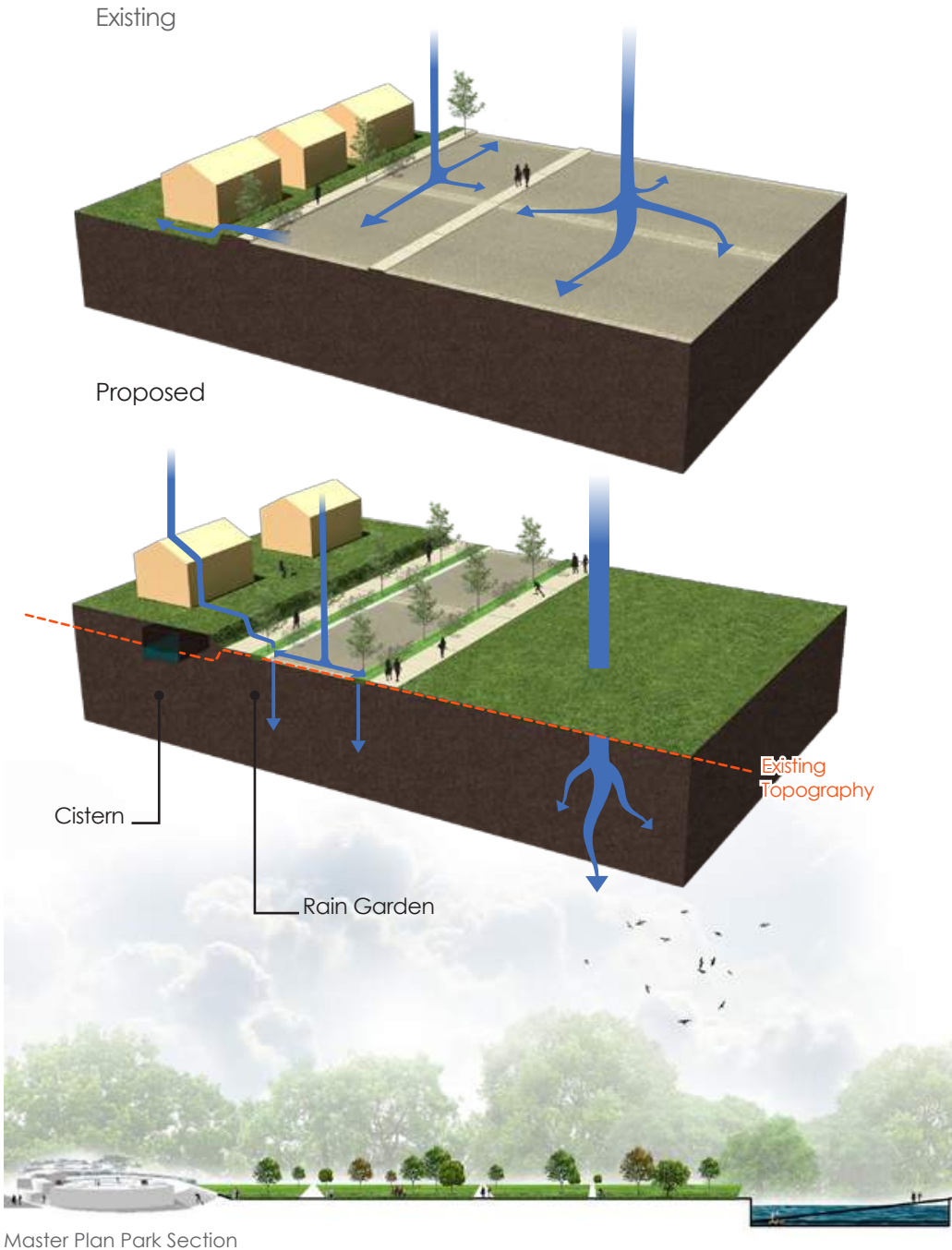
Blighted Parcels

Blighted

Updated FEMA Floodplain Map - Extents of Flood Boundaries

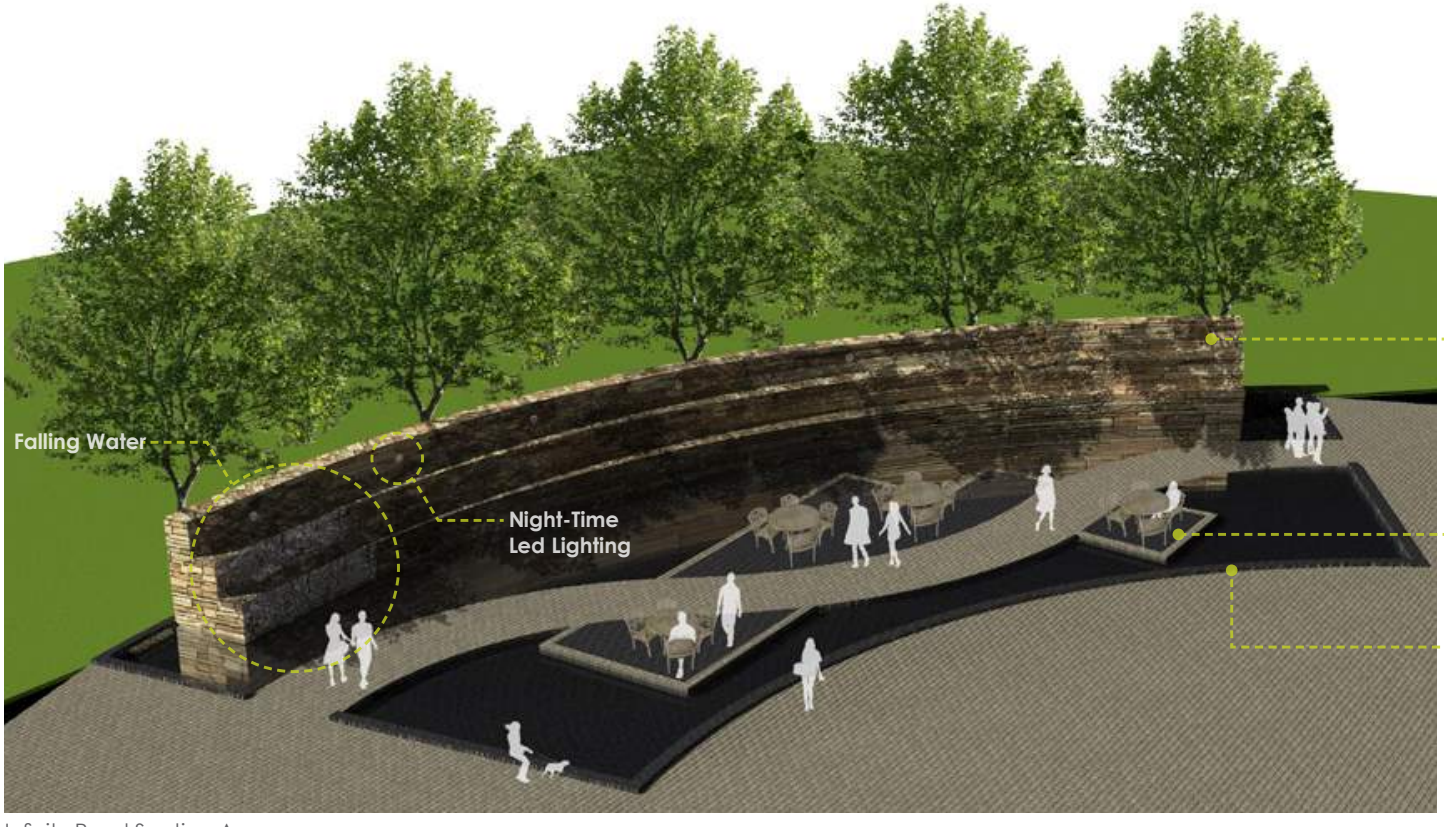
100 year

Street Level Stormwater and Flood Management Strategy



Master Plan Park Section

Lyn Kim BS in Landscape Architecture



Infinity Pond Seating Area

Rogers Memorial Hospital

ROGERS MEMORIAL HOSPITAL: EXPLORING THERAPEUTIC LANDSCAPES

STUDENT: Lily Mank
LOCATION: Oconomowoc, WI
CLIENT: Rogers Memorial Hospital
TYPE OF PROJECT: Research Based Design & Experiential Therapy

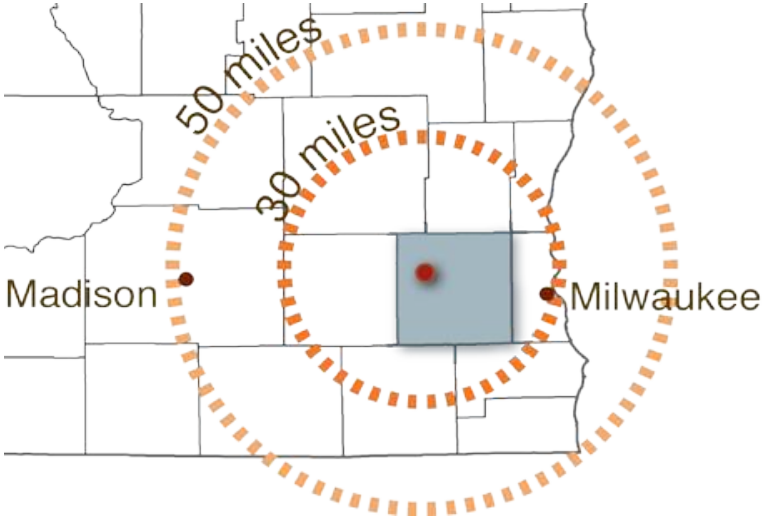
PROJECT GOALS

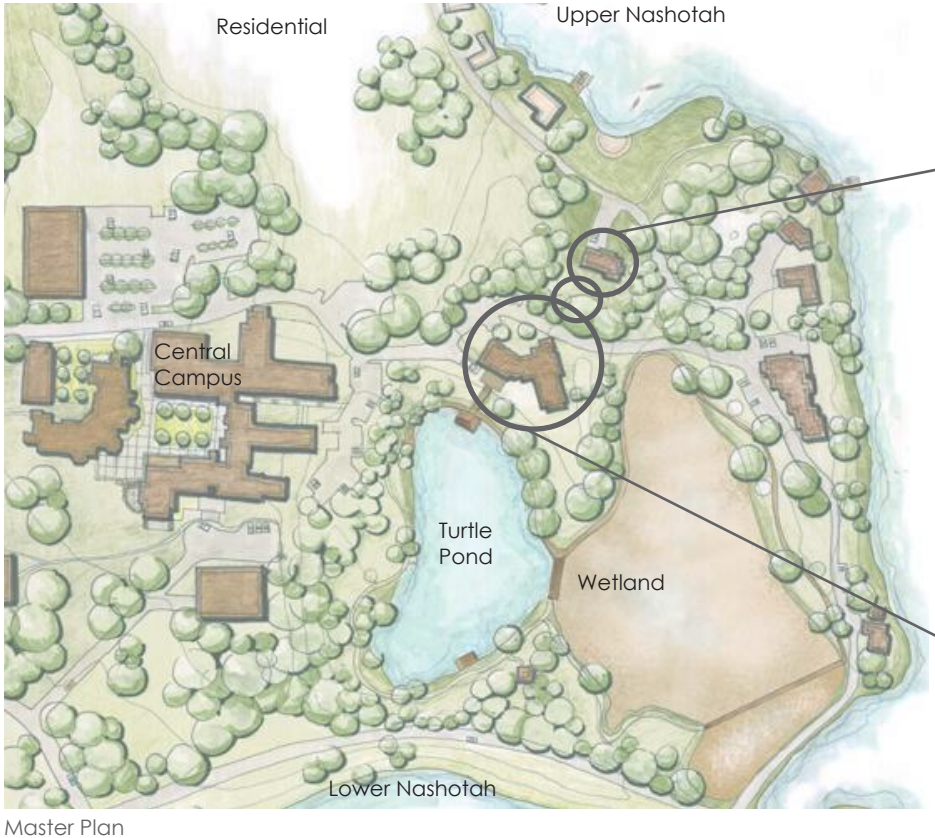
1. Enhance experiential therapies and provide safe site exploration
2. Provide outdoor programming that encourages healthy activities such as exercise or meditation
3. Instill a connection to nature that extends beyond Rogers Memorial Hospital
4. Provide habitat for native fauna species
5. Ensure existing environmental features will remain in good condition for years to come

PROJECT BACKGROUND

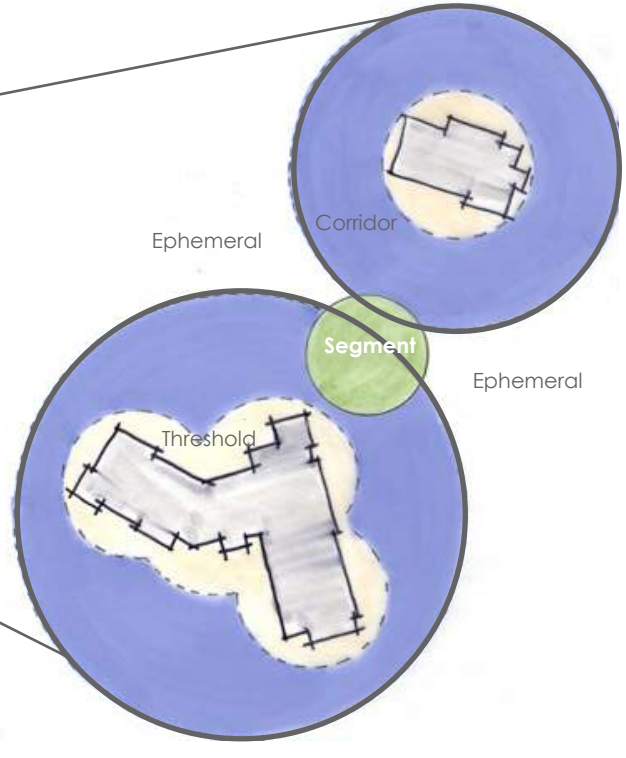
To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of public health may inform the design of a behavioral health treatment center. This investigation will be given context and focus by the concerns and goals of Rogers Memorial Hospital, which include: therapeutic spaces, stormwater management, natural resources management and public health. Rogers Memorial Hospital in Oconomowoc, Wisconsin will be the site for this study.

The redesign of Rogers Memorial Hospital centers upon understanding the stakeholders, clients, patients, and neighbors, and their connection to nature. To do so, discussions were held with the client to identify critical goals and areas of improvement, namely the lack of use of the grounds. To best understand staff behavioral patterns, particularly their interaction with nature while at work, a questionnaire was developed and shared with the client.

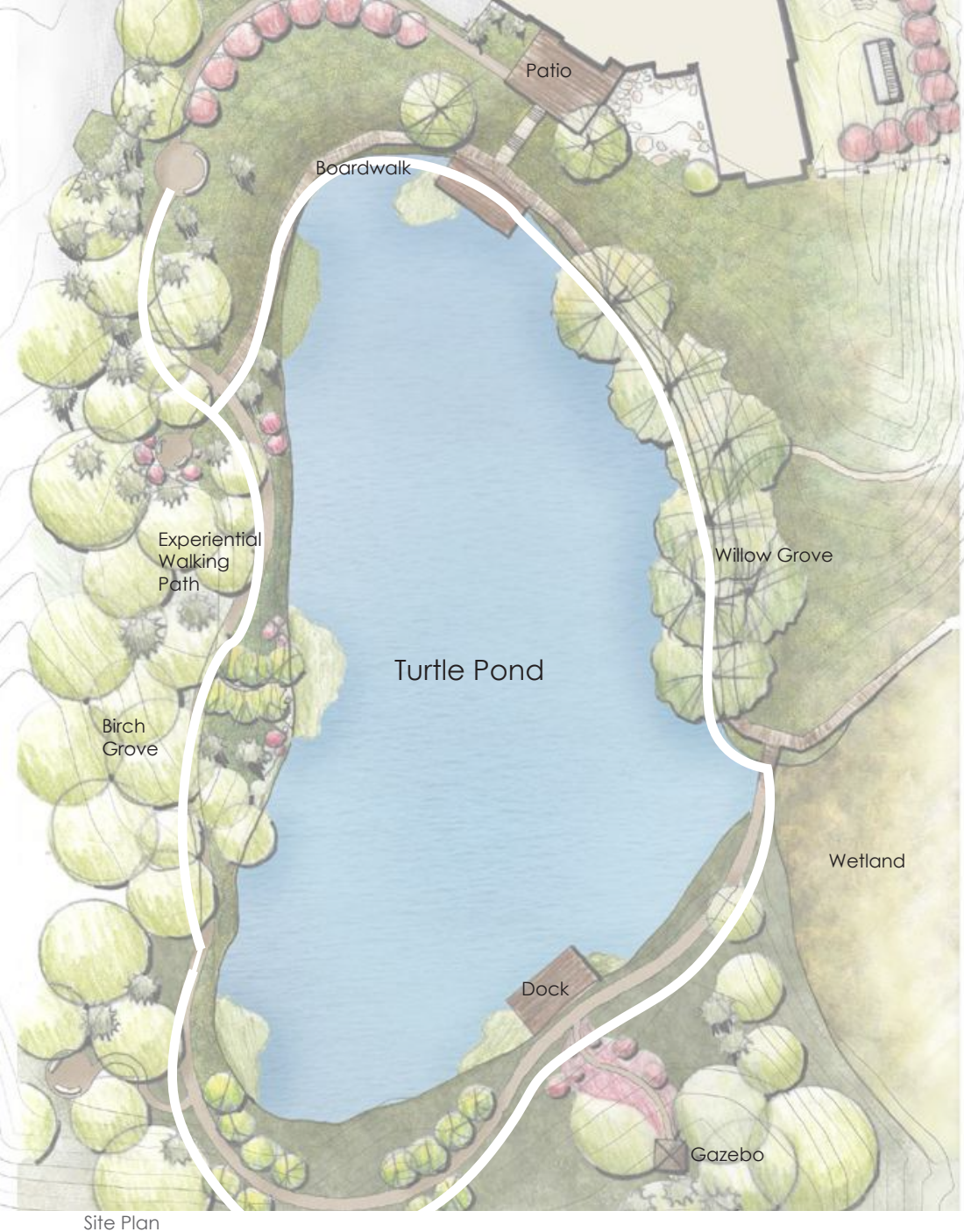




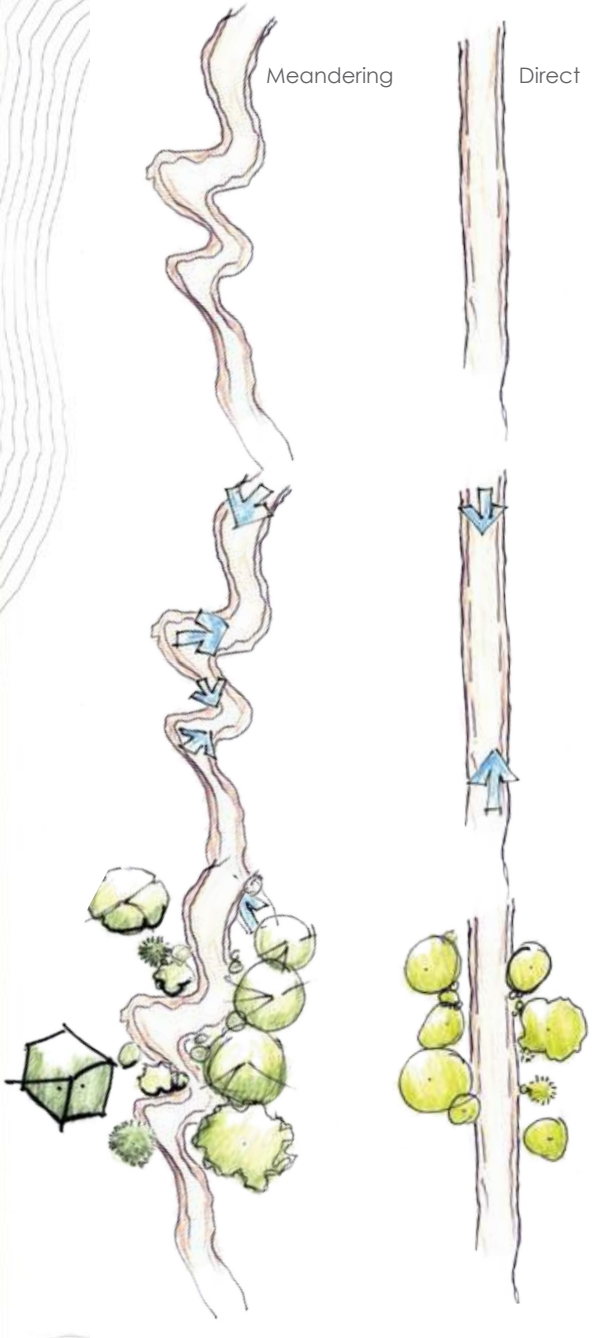
Master Plan



Indoor / Outdoor Transitions



Site Plan



Experiential Walking Path

Experiential Path

Therapy Node

Dock Overlook

Providing Flood Storage by Restoring the Original Wetland

DURWARD'S GLEN

STUDENT: Kristi Sherfinski
LOCATION: Baraboo, WI
CLIENT: Our Lady of the Rosary Group
TOTAL PROJECT HOURS: 718
TYPE OF PROJECT: Historic preservation, economic development, and natural resource conservation

PROJECT GOALS

1. Preserve the Catholic and historic heritage of the site
2. Provide a strategy for generating income in order to provide funding for maintenance of the property
3. Protect the outstanding natural resources of the site through stormwater management
4. Reduce flooding issues in the main lodge and chapel

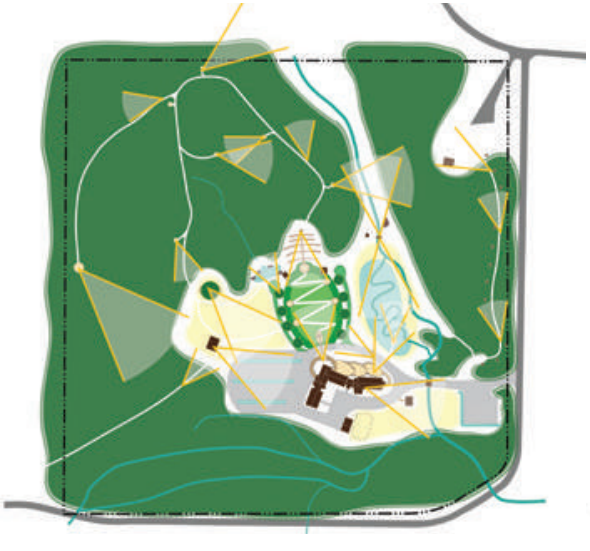
PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of place-branding may inform the design of a retreat center.

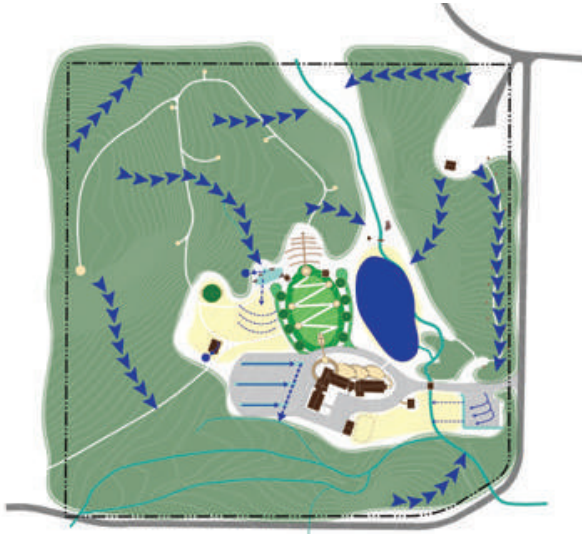
The first step in the design process for Durward's Glen was to speak with the client, Our Lady of the Rosary Group, Ltd., to determine what their site goals. The next step was to research the context and history of the site. Next was to inventory and analyze the site at regional, community, and site levels to better inform what programmatic elements should be included in the design and where they should be placed on the site. The design strategy was to provide program elements that were flexible in use, so the client could use them for whatever economic avenue they chose to develop.

A Rosary Walk/formal garden was developed as an attraction to draw both Catholic and secular visitors to the site. Enhanced site amenities were designed for flexibility in use and for visitor comfort. Several stormwater management solutions were proposed, including a restored wetland that will double as a flood storage feature. The final design solutions for Durward's Glen will help provide Durward's Glen with an identity, and is in keeping with the original spirit of the property kept by the Durward family.

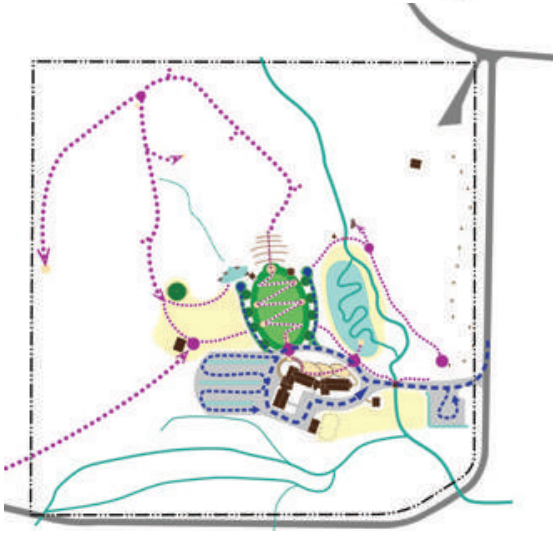
Site Topography



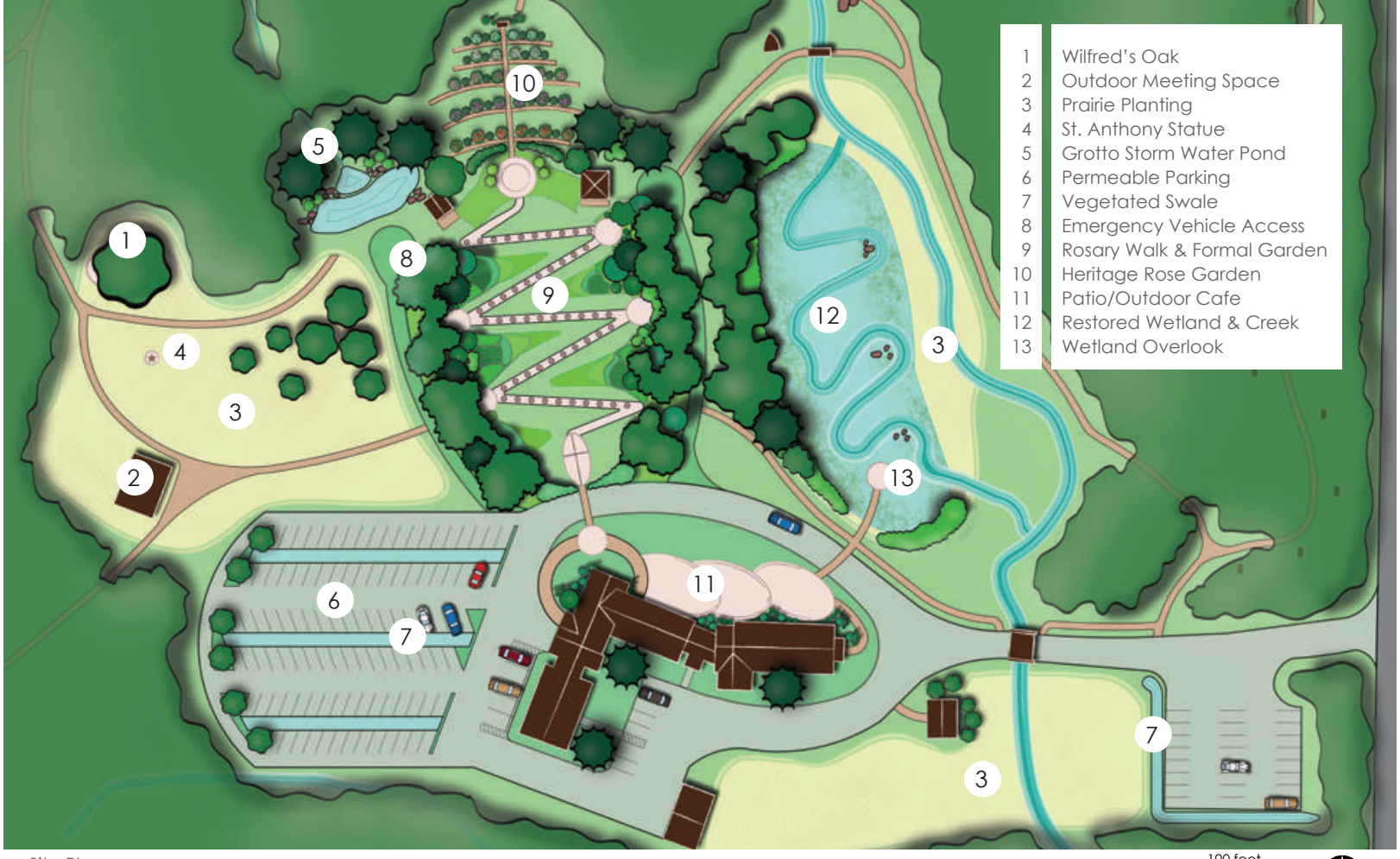
Framed Views



Proposed Storm Water Management Strategy



Proposed Circulation Plan



Site Plan

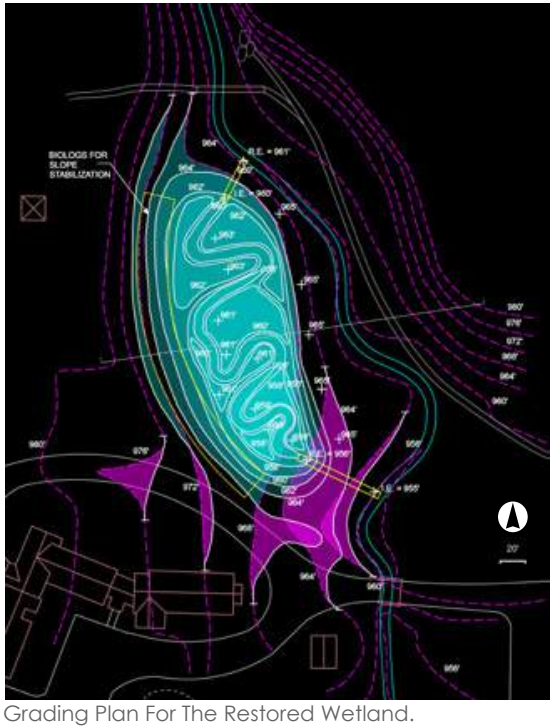
Winter

Spring

Summer

Autumn

Terraced Stone Patio with Cafe Seating in Front of the Main Lodge and Chapel.



Grading Plan For The Restored Wetland.

Water Levels During a 100-Year Storm.

Water Levels During Base Flow.


URBAN


DESIGN

Freight Innovation for urban food resiliency

FOOD FREIGHT: INNOVATION FOR A RESILIENT FUTURE

STUDENT: Nancy Chachula
LOCATION: Dekalb, Illinois
CLIENT: Michelle Miller with the Center for Integrated Agriculture Systems at the University of Wisconsin-Madison
STEERING COMMITTEE: Public and Private Partners
TOTAL PROJECT HOURS: 1,089
TYPE OF PROJECT: Environmental Design

PROJECT GOALS

1. Find suitable locations for a truck hub in the Chicago region that can optimize logistic efficiencies and increase regional food mobility to its urban center
2. Provide for increased access, visibility, and transparency for regional producers and for the general public, including visitors to the site
3. Promote relationship building activities and spur private and public cooperation and financing opportunities
4. Offer space for education and integration between logistic, business, and community partners
5. Provide for resilient activities within agriculture, energy, and operations that offer sustainable solutions

PROJECT BACKGROUND

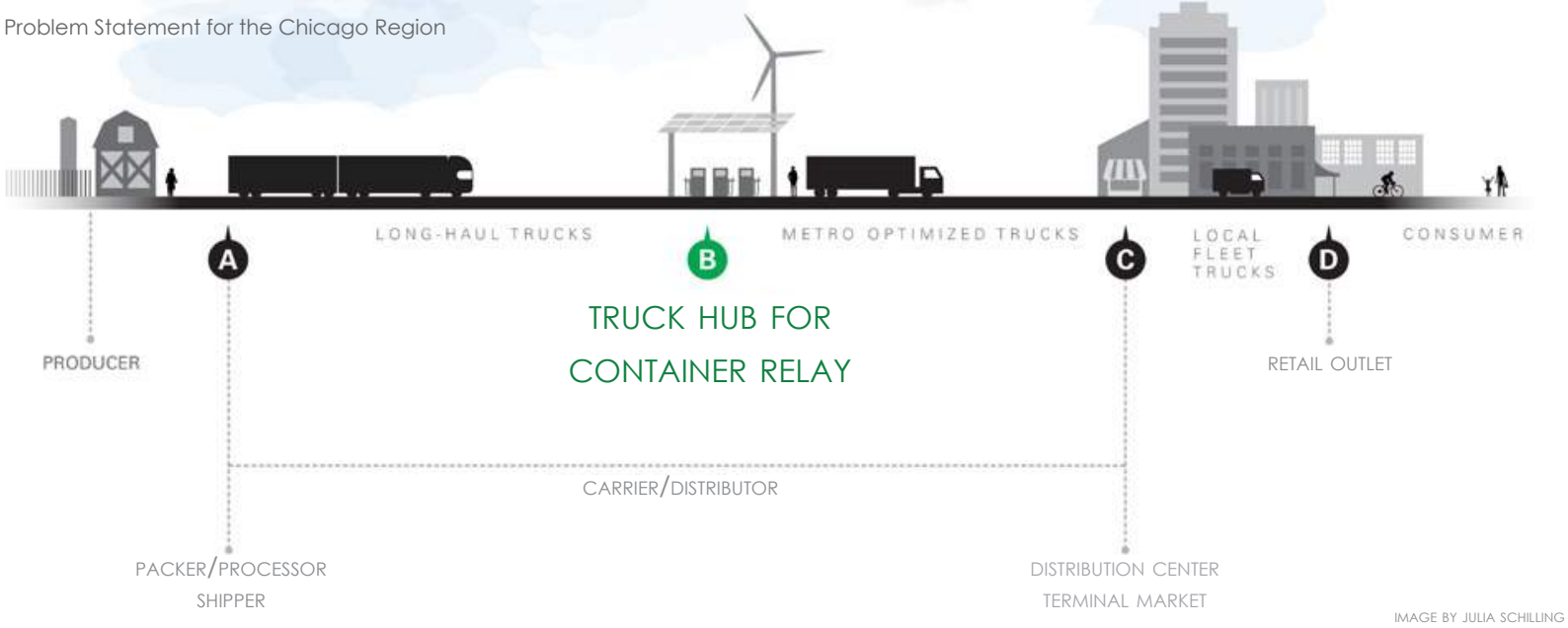
To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of food resiliency may inform the design of an urban truck hub for the Chicago region.

Congestion surrounding urban regions has made long-haul trucking more costly and has created complex labor issues. Local food systems are poorly integrated in urban markets, in part, due to high transportation costs.

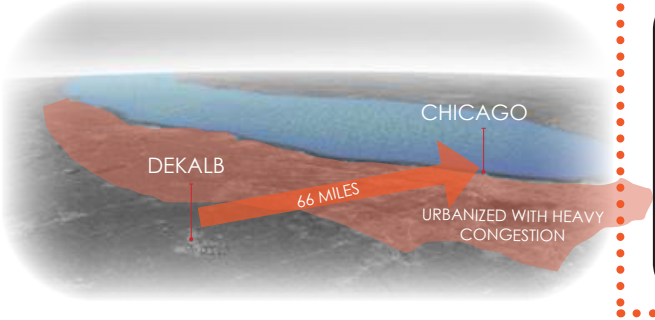
Heavy-duty trucks contribute to air pollution, affecting health and climate change. Climate change has impacted the reliability of our nation's food system even while the future of truck freight is expected to grow much faster than our infrastructure can support.

The design of an integrated food & freight hub offers cross-modal transfer of food to improve fuel efficiencies creating opportunities for regional producers to enter the wholesale food market, and educational opportunities to inform the public of our food system.

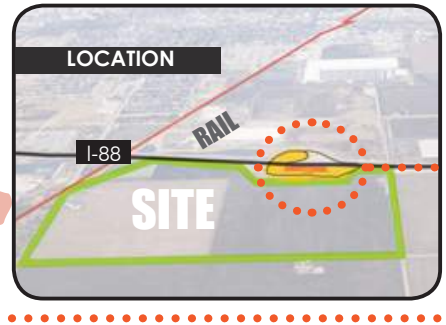
Problem Statement for the Chicago Region



Truck Hub Solution Model



Regional Location



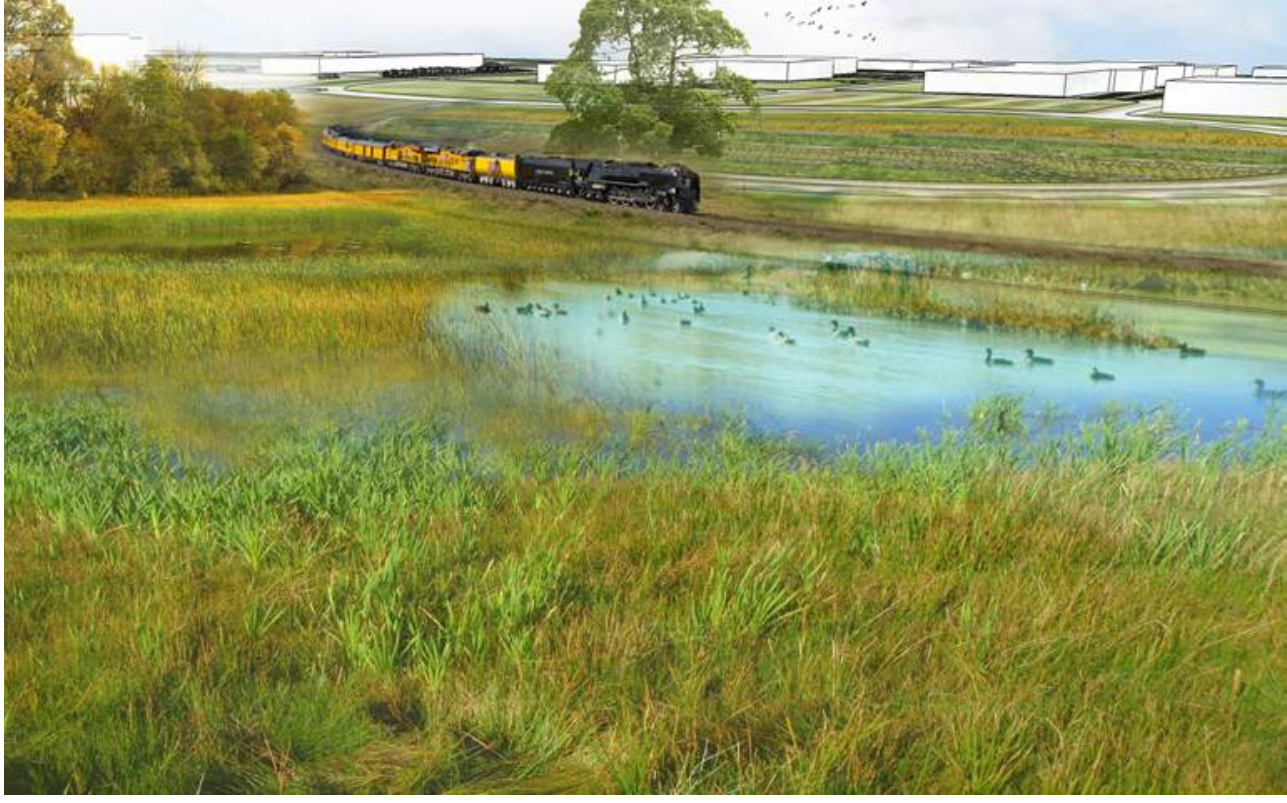
Site Location

Connected Vehicular Rest Stop

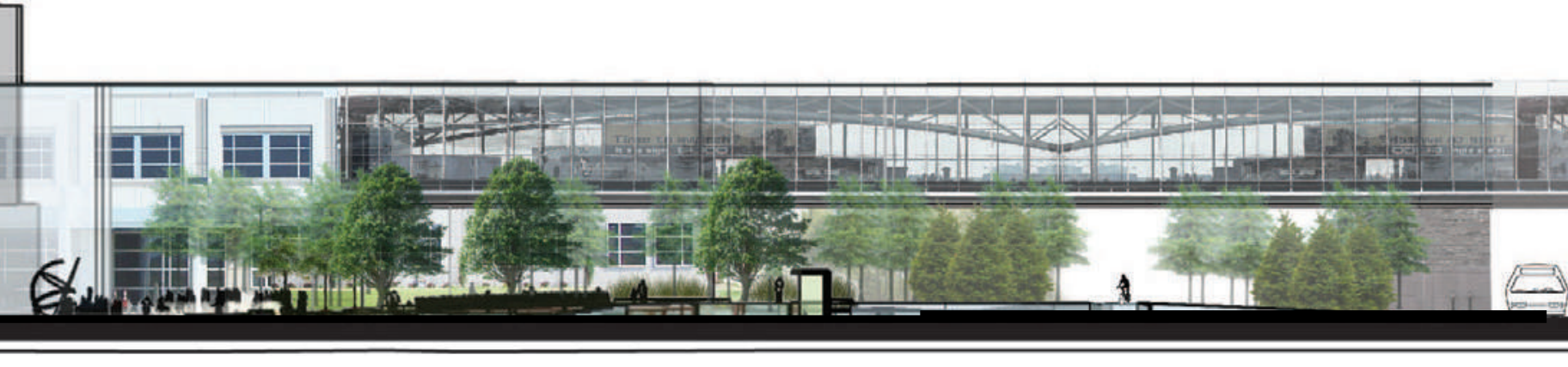
Master Plan

Sunken Garden

Outdoor Learning Center and Hub Complex



Wetlands and Prairie



Sturgeon Bay Market and Maritime Water Feature

EGG HARBOR ROAD CORRIDOR

STUDENT: Konner Kearney
LOCATION: Sturgeon Bay, WI
CLIENT: City of Sturgeon Bay
STEERING COMMITTEE: Sturgeon Bay Planning Commission
TOTAL PROJECT HOURS: 701
TYPE OF PROJECT: Urban Corridor Redevelopment

PROJECT GOALS

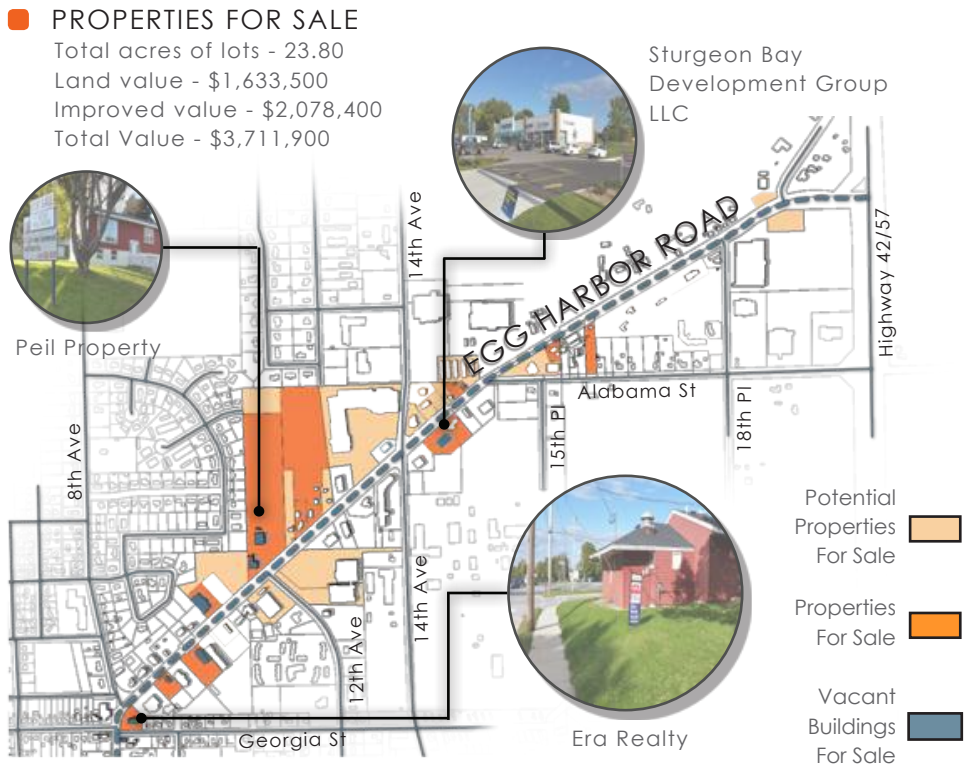
1. Revitalize the Egg Harbor Road Corridor and create a sense of place that relates to the site's historical and cultural context
2. Develop new residential and commercial areas in a sustainable manner
3. Increase the pedestrian realm and provide multiple community-focused spaces
4. Alleviate traffic flow by creating additional access points to Egg Harbor Road
5. Harvest and manage stormwater to improve water quality before reaching the water table and Lake Michigan

PROJECT BACKGROUND

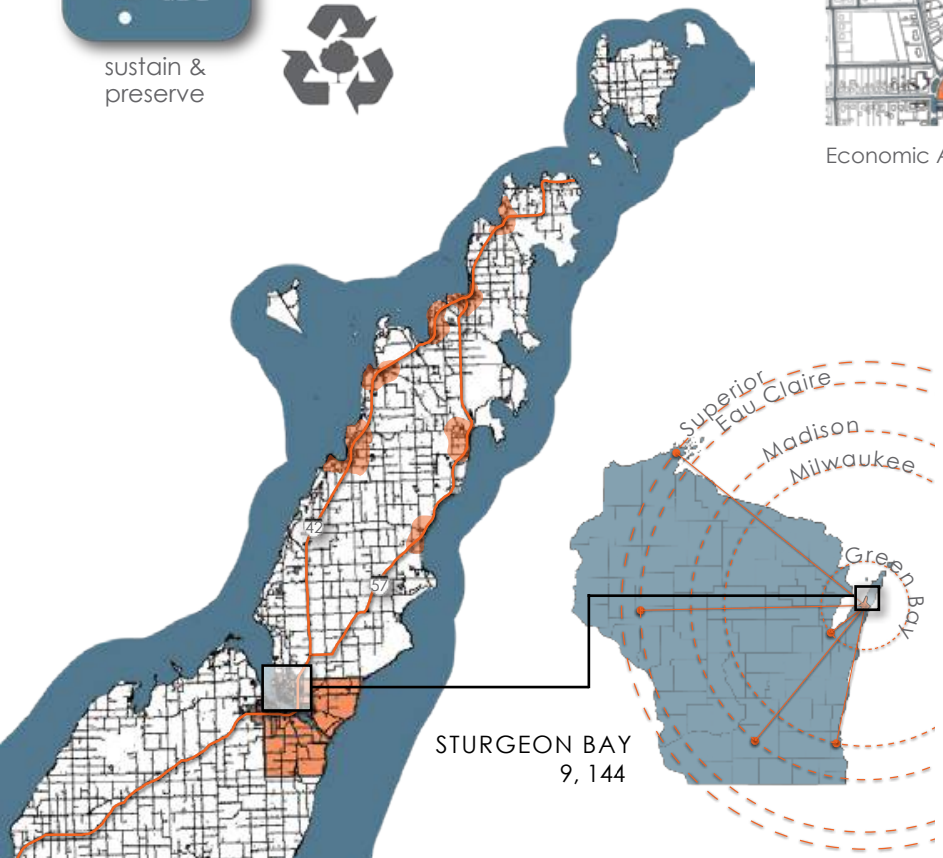
To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of smart growth may inform the design of an urban corridor redevelopment.

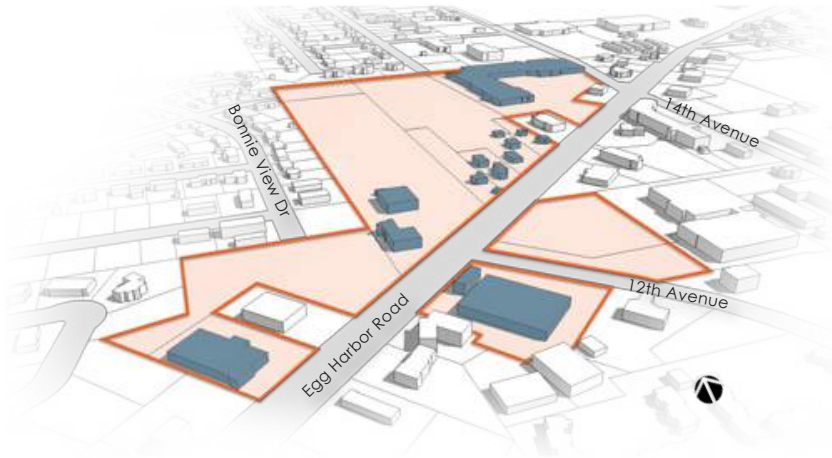
The focus of this project was to create a corridor that instills a "sense of place", celebrates the history of Sturgeon Bay, and provides new opportunities for housing, retail, office, and public spaces while keeping sustainability at the forefront of design.

Sturgeon Bay is a unique city in that it was founded on the canal between Green Bay and Lake Michigan. The city has a rich maritime history. Combining new and sustainable design solutions while honoring the area's history resulted in a unique community design.



Economic Analysis of the Egg Harbor Road Corridor

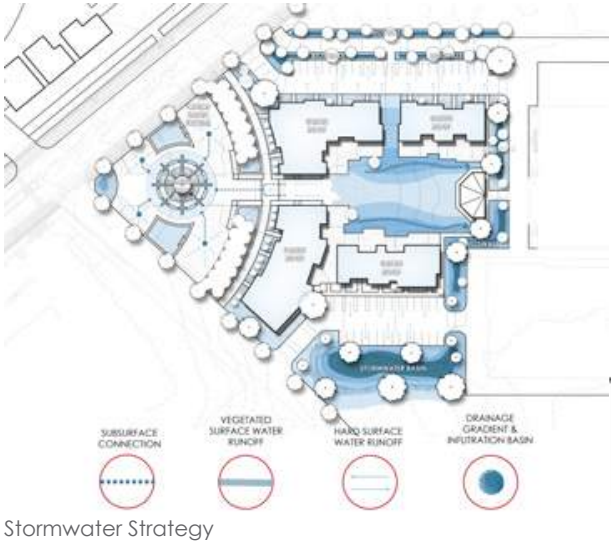




Master Plan Extents

Community Master Plan

Site Use



Stormwater Strategy

Market Space &
Iconic Water Feature

Aspen Grove

Great Lawn &
Outdoor Amphitheater

Egg Harbor Road

12th Avenue

Front Planting Bed

Food Cart &
Festival Space

Stormwater
Remediation Area

Site Section

Community Market

BOSCOBEL TRAIL & REVITALIZATION

STUDENT: Lindsay Sperber
LOCATION: Boscobel, WI
CLIENT: Denise Fisher
STEERING COMMITTEE: Wisconsin River Trail Association
TOTAL PROJECT HOURS: 736
TYPE OF PROJECT: Community Revitalization

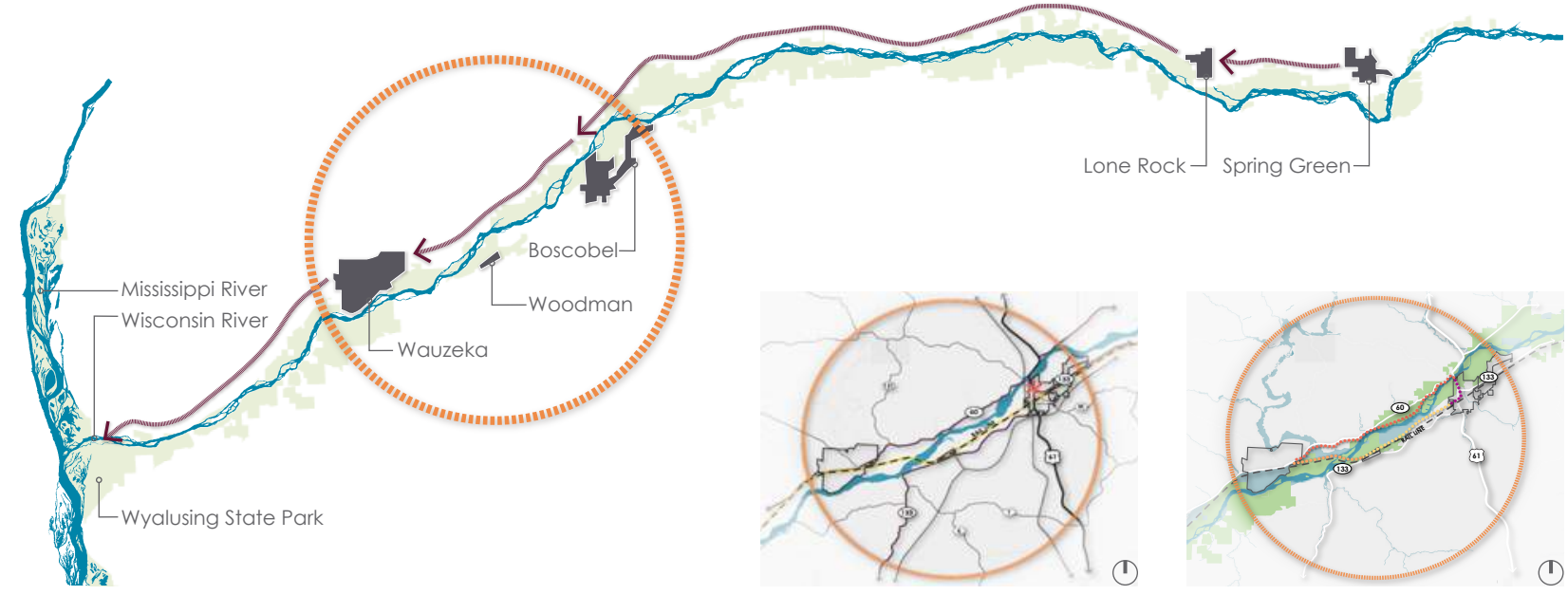
PROJECT GOALS

1. Create a cohesive and safe trail within the community connecting the town to natural features and promoting health
2. Relate the project to the city's historical past by preserving and enhancing the existing iconic buildings
3. Design a legible downtown plan that focuses on walkability and health
4. Encourage interaction between residents and visitors by increasing public plazas and open space
5. Promote a sense of pride within Boscobel

PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of public health may inform the design of community revitalization.

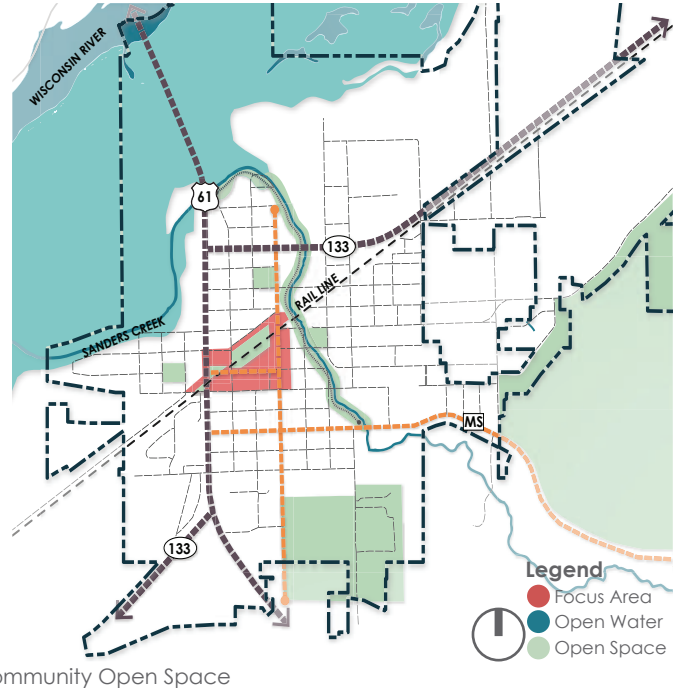
After integrating the city of Boscobel's Comprehensive Plan, the primary approach addressed key goals and objectives within the categories of active living, land use, and exposure to public open space. This led to creating a regional and community connection plan that focuses on safely linking the community to the Wisconsin River and public open land promoting the relation to wildlife and each other. The master plan reorganizes the downtown while preserving the character that made Boscobel what it is, in order to reflect the past. The proposed and existing features work together harmoniously to create a new and revitalized community with a focus on the health of the community and the environment.



Wisconsin River Trail

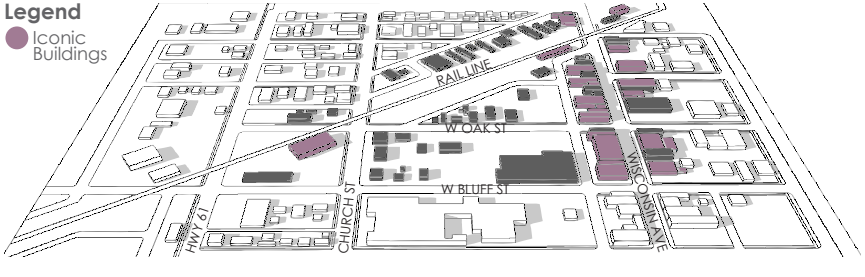
Regional Road Barriers

Proposed Regional Trail Alignment



Community Open Space

Downtown Pedestrian Paths



Iconic Downtown Buildings

Community Bicycle Connection Plan

Boardwalk to Wisconsin River

Downtown Master Plan

Brewery Plaza with Underground Rainwater Storage

Rainwater Swale Amphitheater

Brewery Plant Palette

Community Fire Pit

Vegetated Connection Between Front Street & Main Street

CASHTON REVITALIZATION

STUDENT: Sherry Yang
LOCATION: Cashton, WI
CLIENT: Cashton Community
TOTAL PROJECT HOURS: 336
TYPE OF PROJECT: Downtown Revitalization

PROJECT GOALS

1. Provide a pedestrian scale to vehicular oriented downtown
2. Create a sense of place in its downtown
3. Bring the community together with a new park space designed for children
4. Attract regional visitors to the community
5. Connect to the surrounding Amish community
6. Improve public health by introducing new bicycle connections

PROJECT BACKGROUND

To fulfill the requirements of the senior capstone program in the Department of Landscape Architecture I investigated how ideas of landscape urbanism theory may inform the design of a downtown redevelopment. This investigation will be given context and focus by the concerns and goals of the Cashton community.

Cashton is a small village of 1,092 people located in the driftless region. The reason for the Cashton redevelopment strategy is due to the recent growth of the nearby Organic Valley Farm and to prepare the city for the redevelopment Highway 33 which runs through Cashton.

Some of the proposed program elements for the downtown improvement include wider sidewalks with street furniture and lighting to improve the pedestrian scale. On-street planters and trees were added to all streets reduce perceived scale of the roads and to create a safe barrier between cars, pedestrians and bicyclists. The main feature of the community will be a new central plaza that will hosts future community festivals.

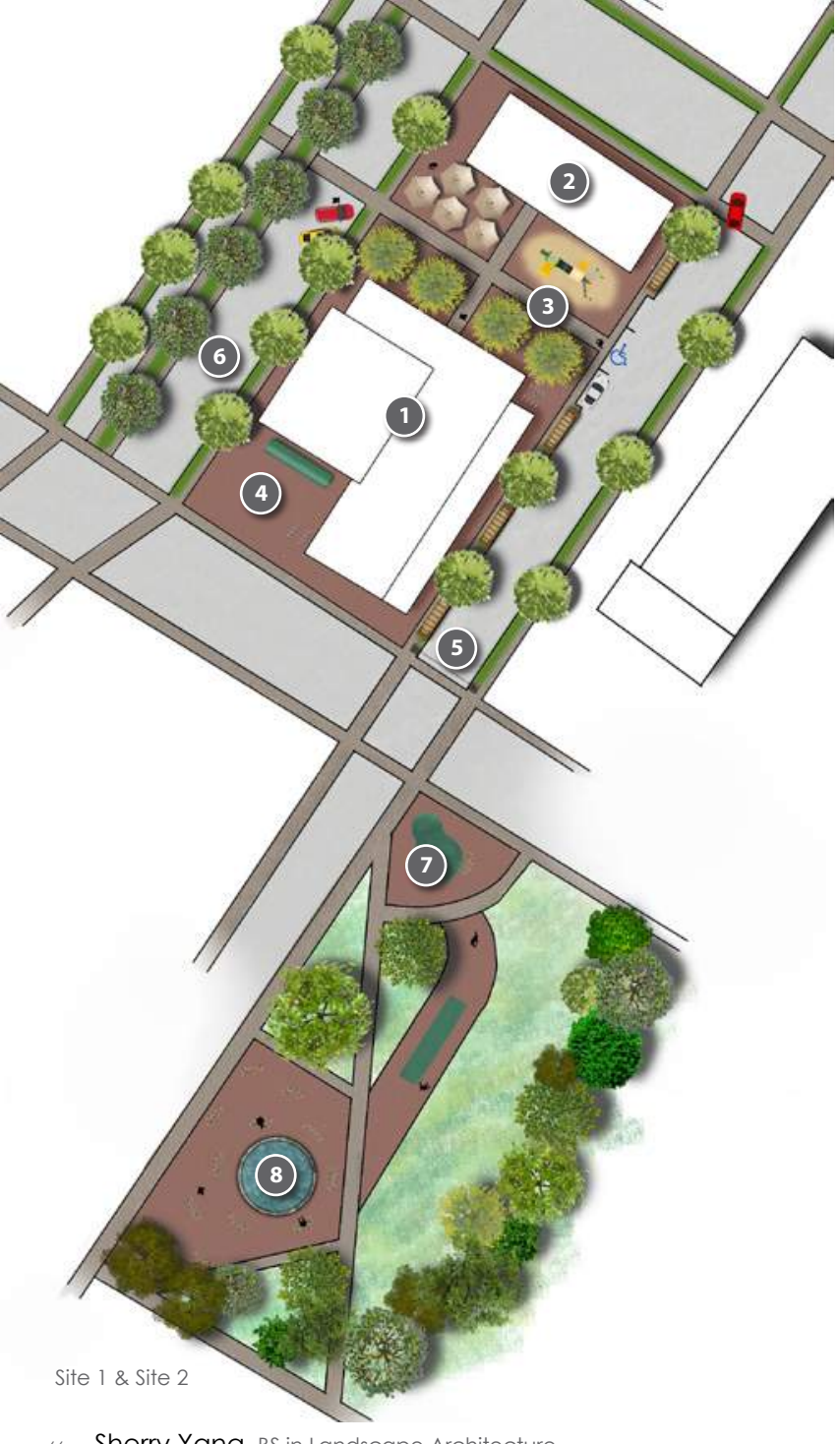
Existing Characteristics: Degrading Facade

Narrow Sidewalks

Wide Streets

Proposed Regional Trail

Proposed Site Program Diagram



Site 1 & Site 2

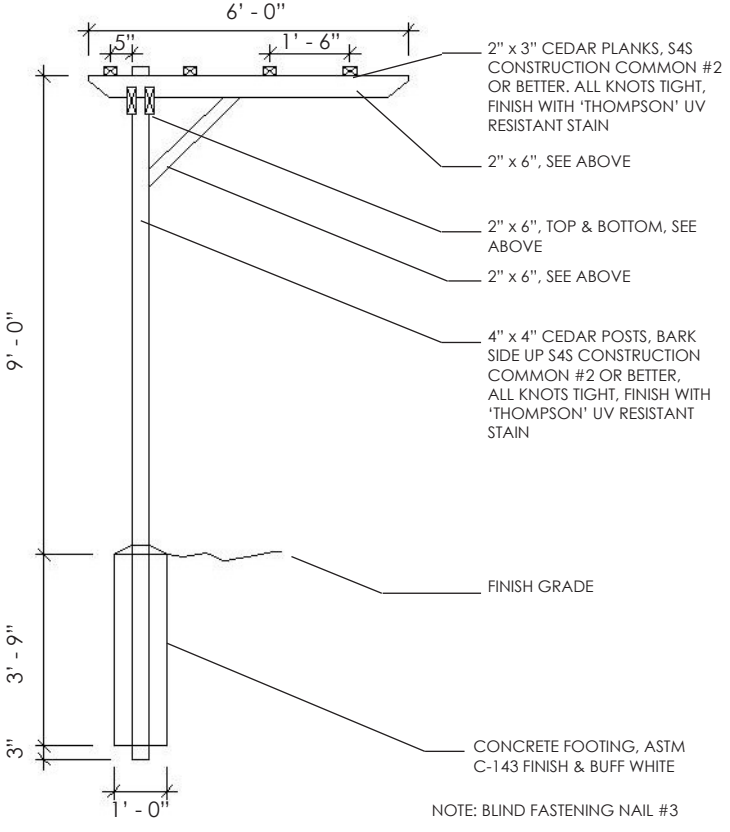
Section Across Main Street and Front Street

Site Plans

1. Visitor Center
2. Children's Museum
3. Plaza / Children's Play Area
4. Service Parking
5. Welcoming Structure
6. Pedestrian Mall
7. Children's Splash Pad
8. Main Fountain Seating

Existing Conditions and Proposed Master Plan

Pedestrian Plaza View



Pergola Detail Concept

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