## Mississippi River Environmental Learning Center and NPS Headquarters

Technical Study with Recommendations

# **CONFIDENTIAL Under Review**













St. Paul, Minnesota

#### Master Planning & Design

VJAA Inc. 431 First Avenue North, 3rd Floor Minneapolis, Minnesota 55405 +1 (612) 872-6370 www.vjaa.com

# Redevelopment Economics, Finance and Strategy

Donjek, Inc. St. Paul, MInnesota +1 (651)-645-4644

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## **Stakeholders / Participants**

#### **Technical study commissioned by Partners:**

Saint Paul Parks and Recreation Great River Passage Initiative National Park Service Mississippi Park Connection Friends of the Mississippi River Capital Region Watershed District

#### Stakeholders:

Saint Paul Parks and Recreation:

Great River Passage Initiative

Natural Resources

Recreation Services

National Park Service

Mississippi Park Connection

Friends of the Mississippi River

Capital Region Watershed District

Office of Congresswoman Betty McCullum

Saint Paul Mayor's Office

#### **Advisors:**

DNR

Xcel Energy

GSA

Watergate Marina

Saint Paul Park and Recreation Design and Construction

Saint Paul Planning and Economic Development

Wilderness Inquiry

River's Edge Academy

Stakeholder Meetings: 17 January, 23 February, 17 April 2017

Partner Meetings: 17 February, 20 March 2017



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Introduction

#### Introduction

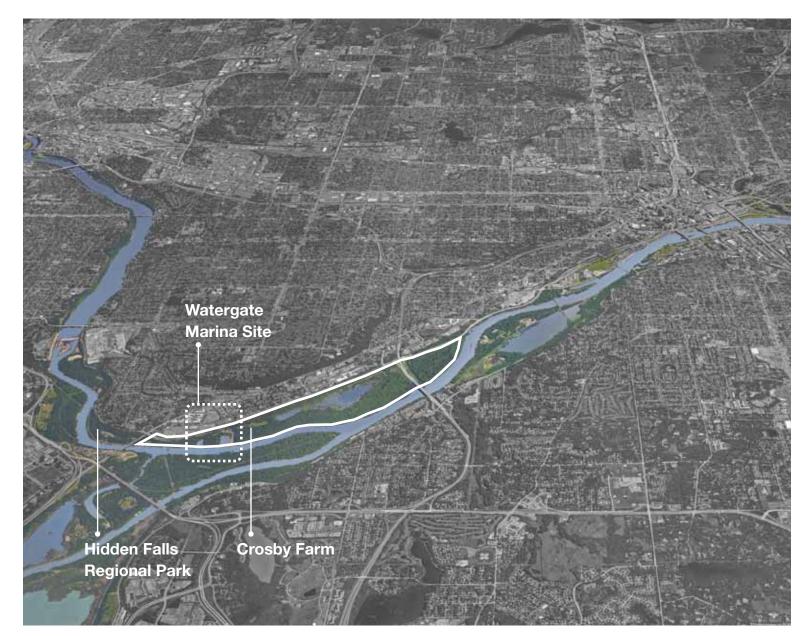
The Great River Passage Master Plan, approved by the Saint Paul City Council in 2013, included a proposal for an Environmental Learning Center at the Watergate Marina Site. The idea became a priority once it was recognized as a convergence of a strategic, historic location along the river with ecological significance, suitability for year round recreation and education, connection to larger trail systems and surrounding communities, and community and political support. Combined with this convergence was the unique opportunity to partner with the National Park Service who has been looking for a site to build a headquarters and locate their programs and events. Recognizing this important moment the five partners commissioned a technical study to evaluate the opportunity to create a combine Environmental Learning Center and National Park Service Headquarters at Watergate Marina.

The technical study evaluates:

- Programmatic needs for both uses and others
- Interior and exterior spatial requirements and opportunities
- Site analysis
- Regulatory and contractual processes and restrictions
- Design and phasing scenarios
- Leadership, ownership, partnership and fundraising considerations

The technical study is the next step in taking idea to reality and helps partners and stakeholders understand 'what could be' as well as what are the potential challenges that need to be negotiated.

The four-month technical study process was comprehensive, engaging stakeholders and advisors early and often to gather as much information as possible from the experts representing the various partners, landowners and jurisdictional bodies. The design team cycled through the iterative process, researching, analyzing and synthesizing information into thoughtful, forward thinking recommendations and considerations for the mixed-use river destination.

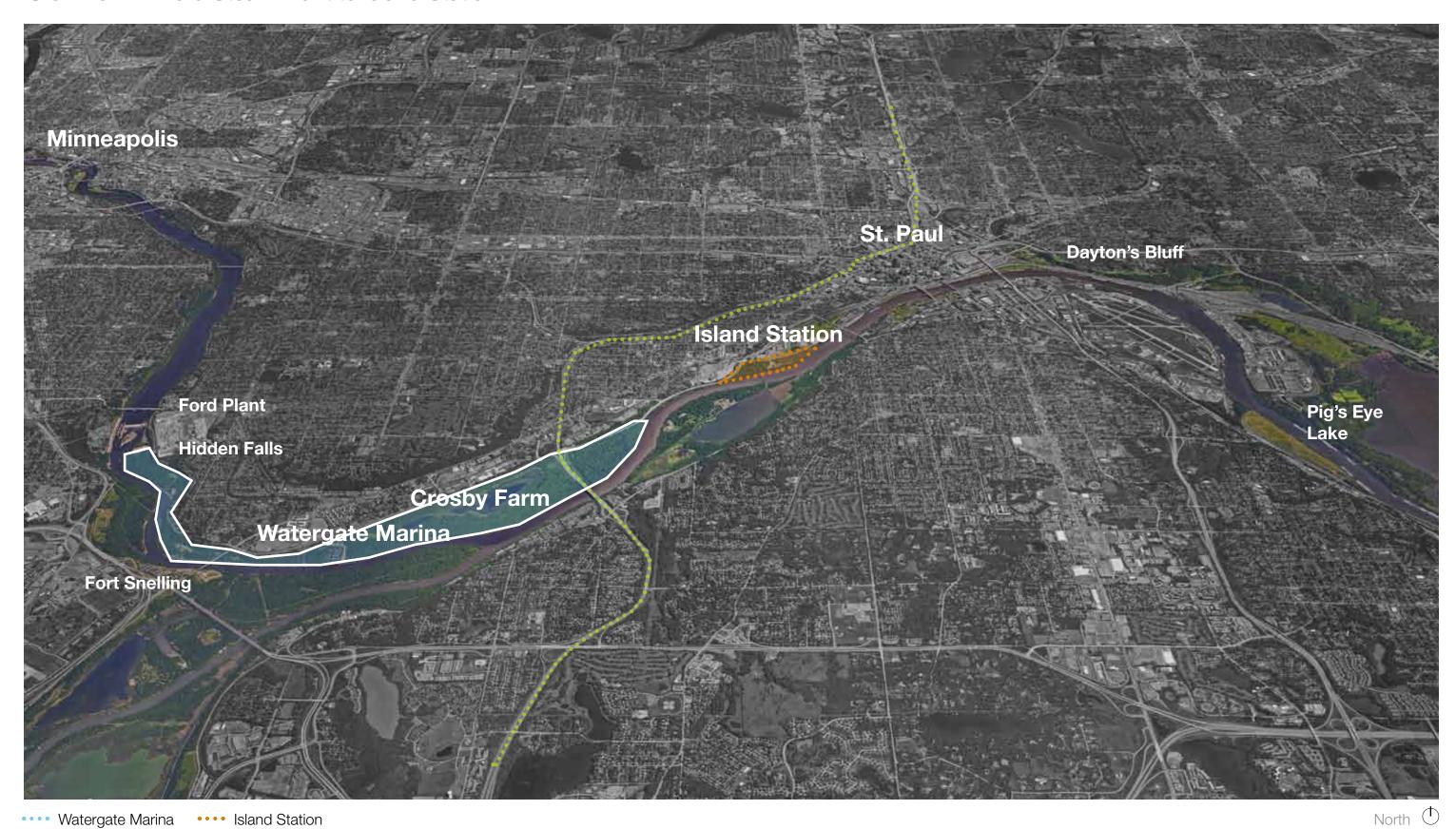


Watergate Marina Site

© 2017 VJAA MR ELC - NPS HQ 5

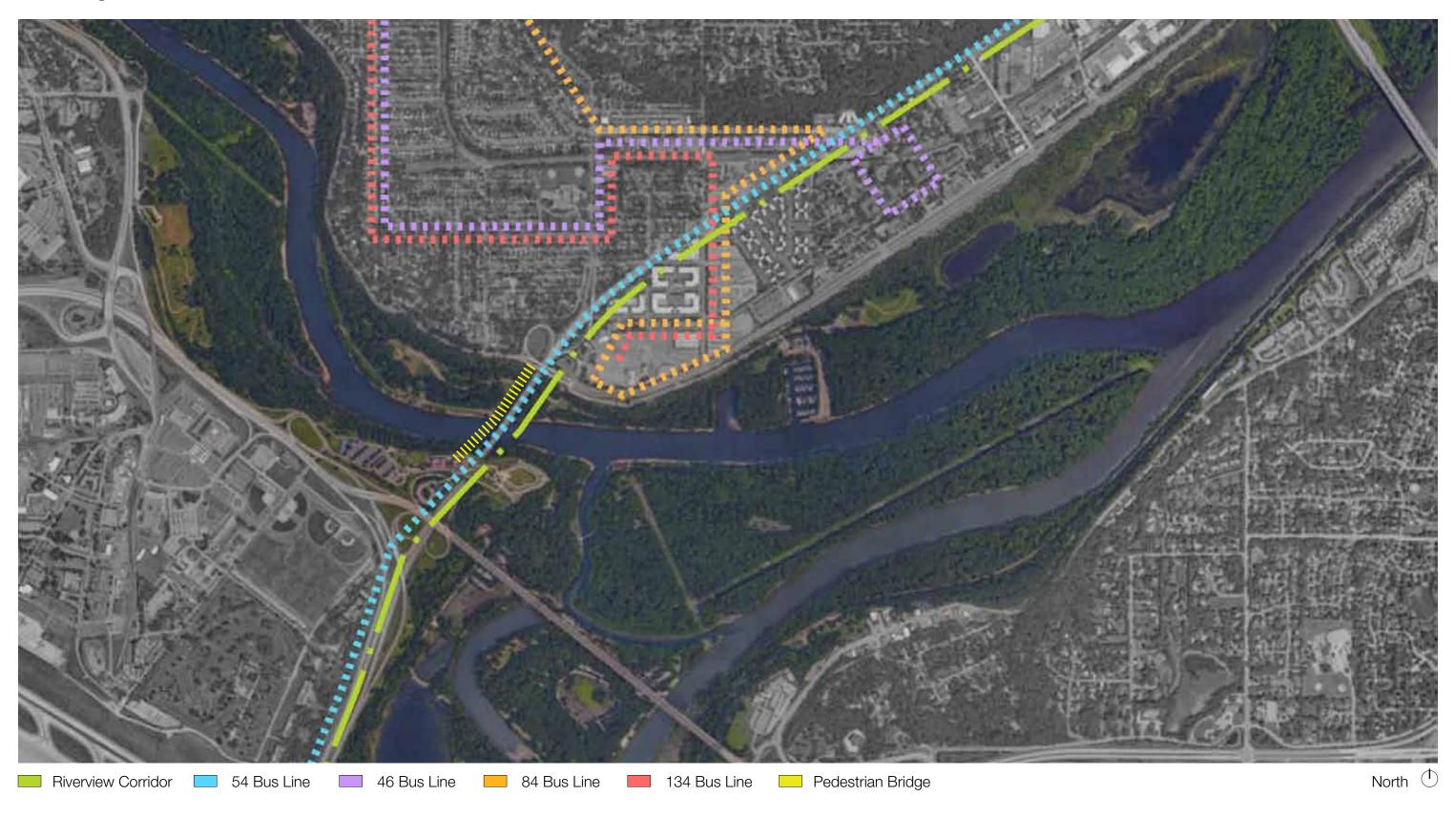
Site Analysis

## **Context** Ford Steam Plant to Island Station

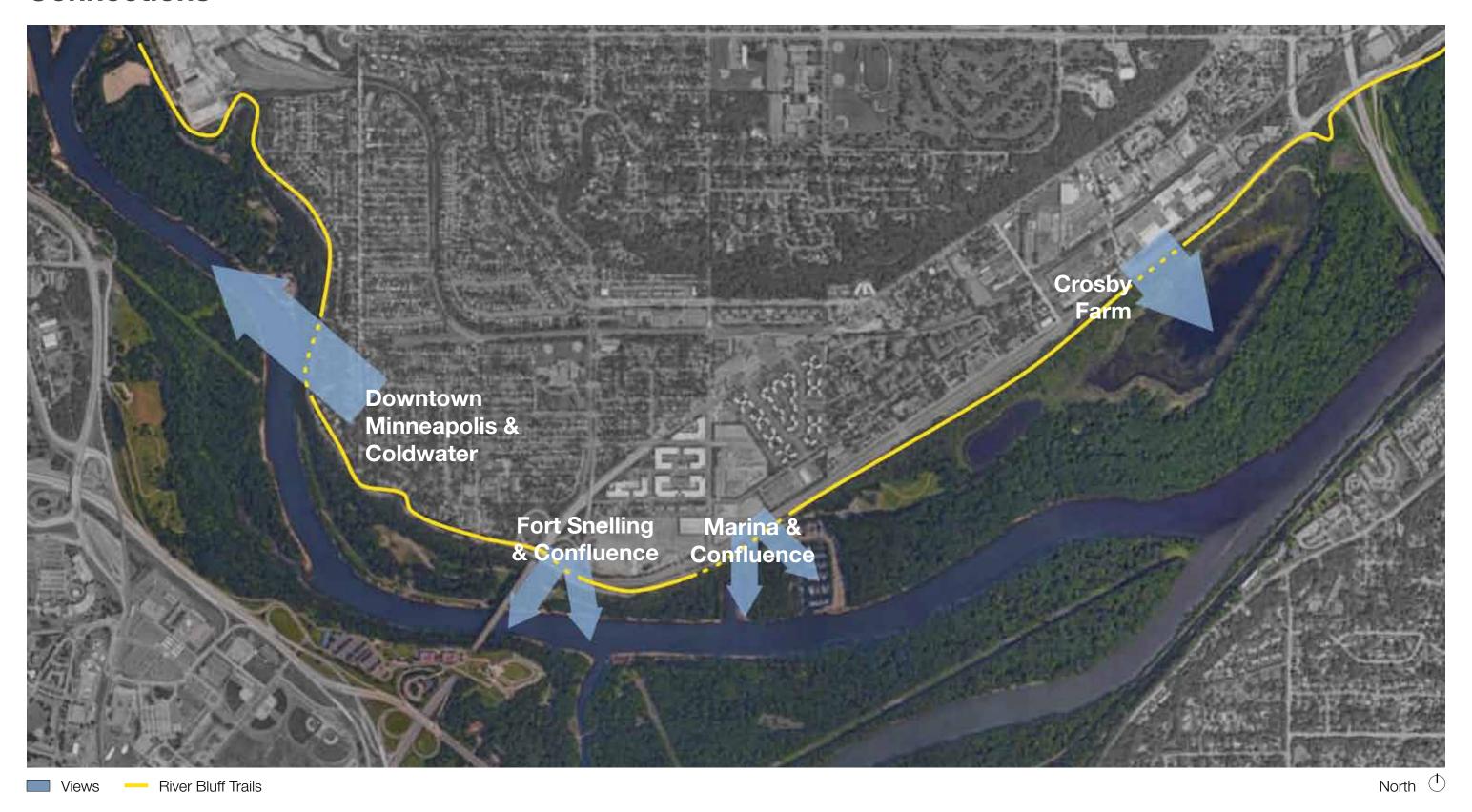


Watergate Warria Island Station

**Transportation** Hidden Falls South, Watergate Marina, and Island Station

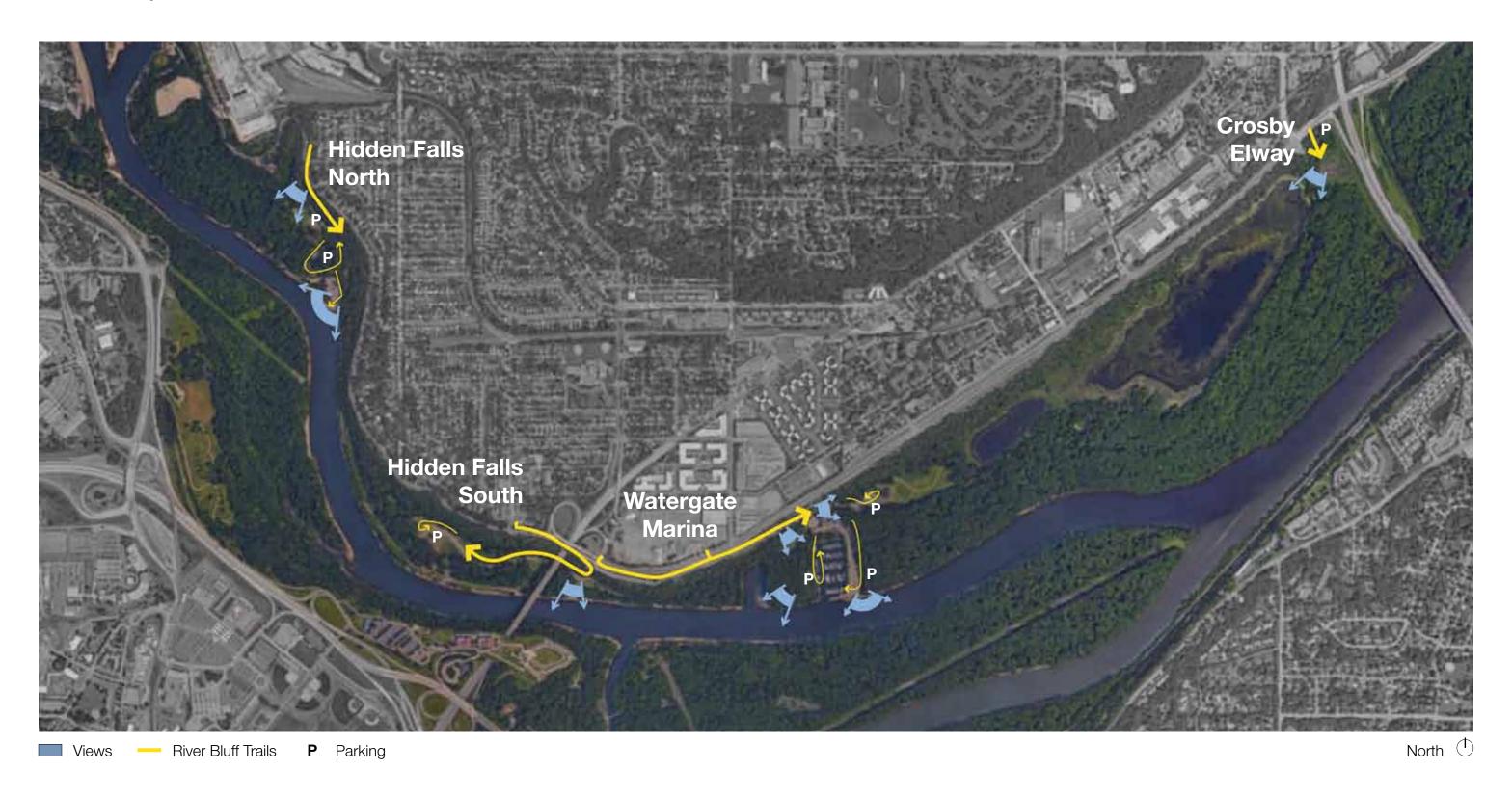


## **Connections**



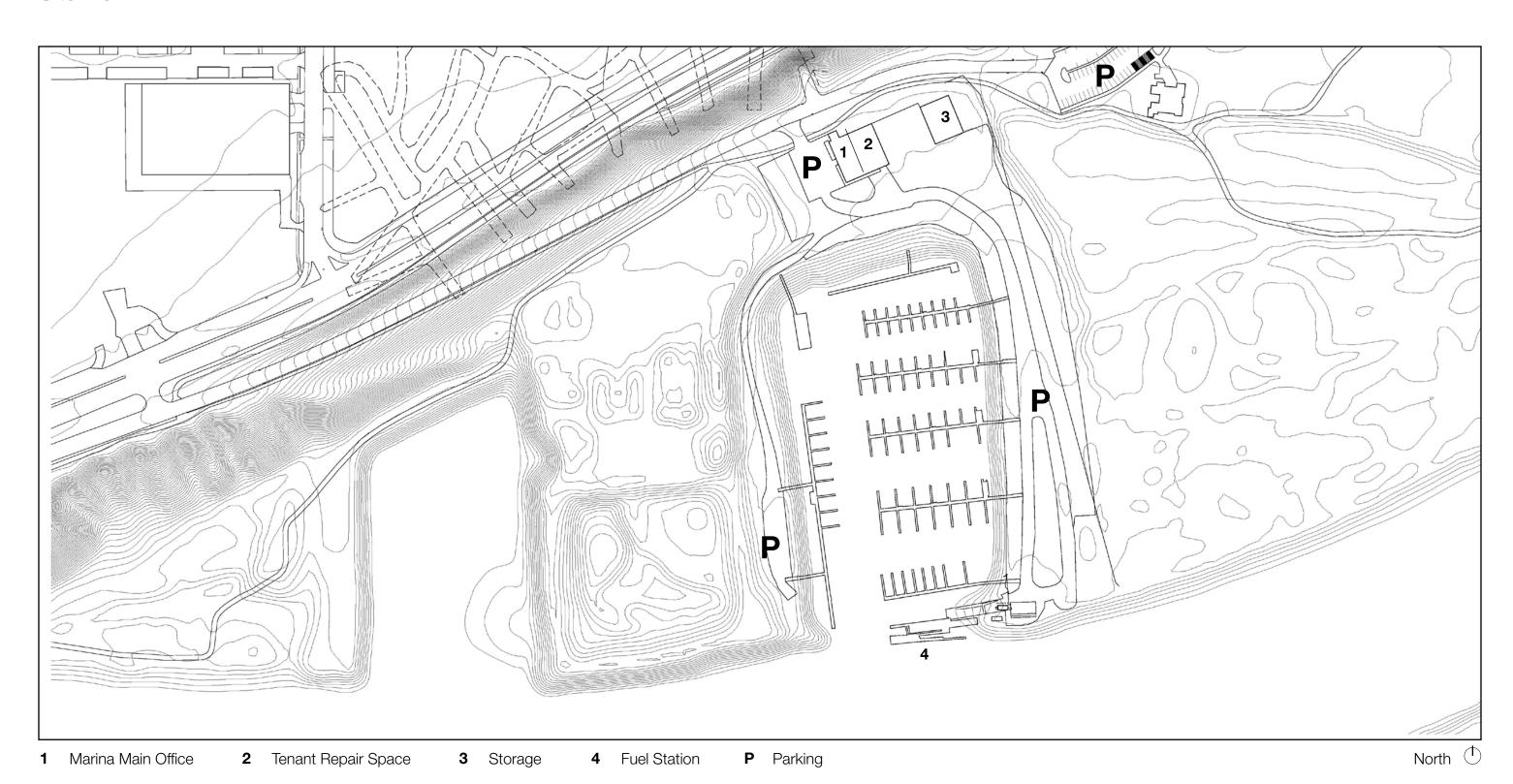
## **Access and Sight Lines**

Site Visibility



## **Existing Marina**

Site Plan



# **Existing Marina**

Photographs











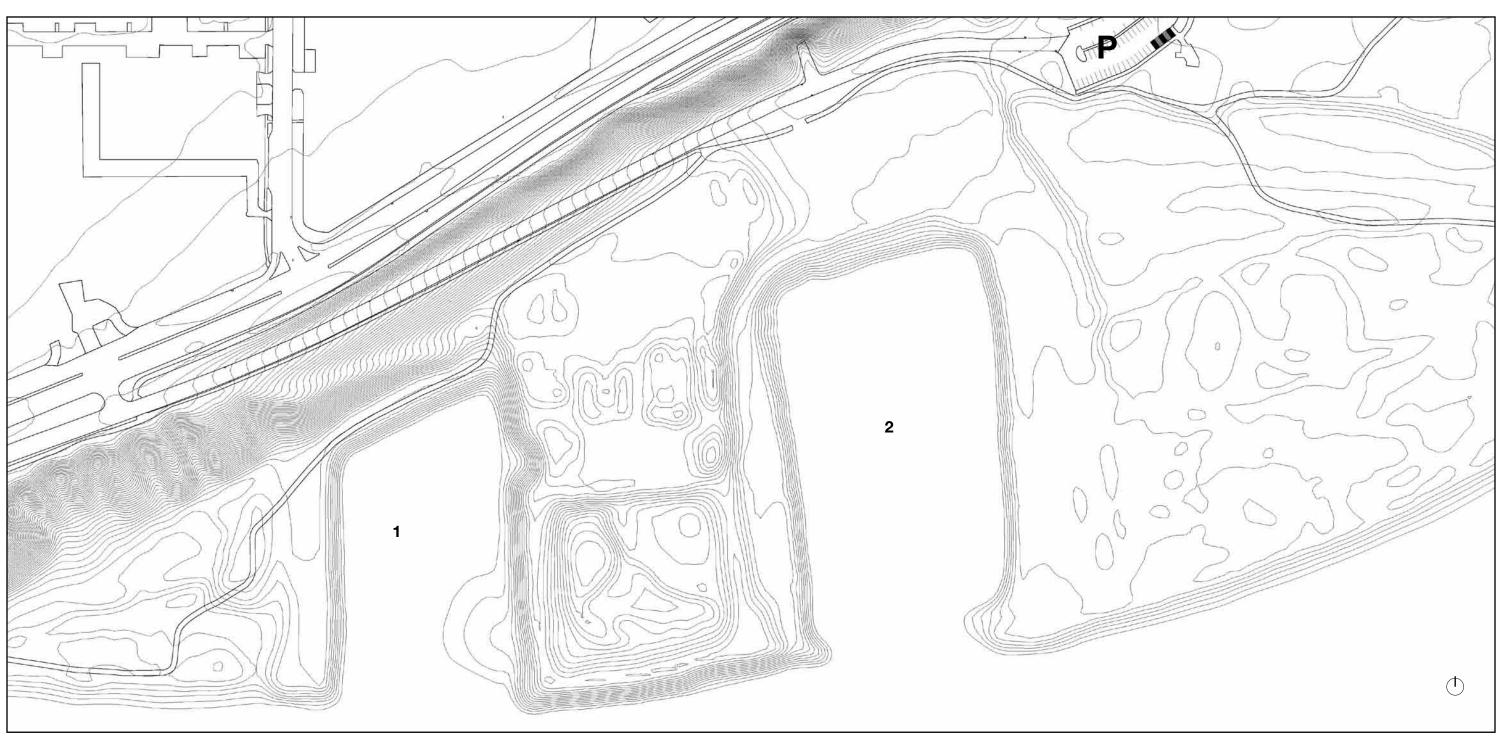
# 3

# **Programming**

Design Analysis + Recommendations

## **Recommendation: Remove the Marina**

Incompatible Uses



1 Upper Harbor 2 Lower Harbor P Parking Site Plan without Marina

## **SITE ACTIVATORS**

Transportation Park Buildings & Site Camping and Picnicking Nature and Wildlife Information and Services Recreation Waterfowl Bicycle trail National Park Service Picnic shelter Boat Tour Campfire N Hiking Technical rock climbing 🌠 Bike rack Ranger Desk Cabin Crosscountry ski trail Picnic tables Ice skating Bus stop/Shuttle stop Lookout tower Fishing pier Amphitheater Parking Canoe Access Restrooms



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## **Connectivity: Mixed Use Activation**

Detail area 1

Multi-modal access: boats, cars, bikes, trails



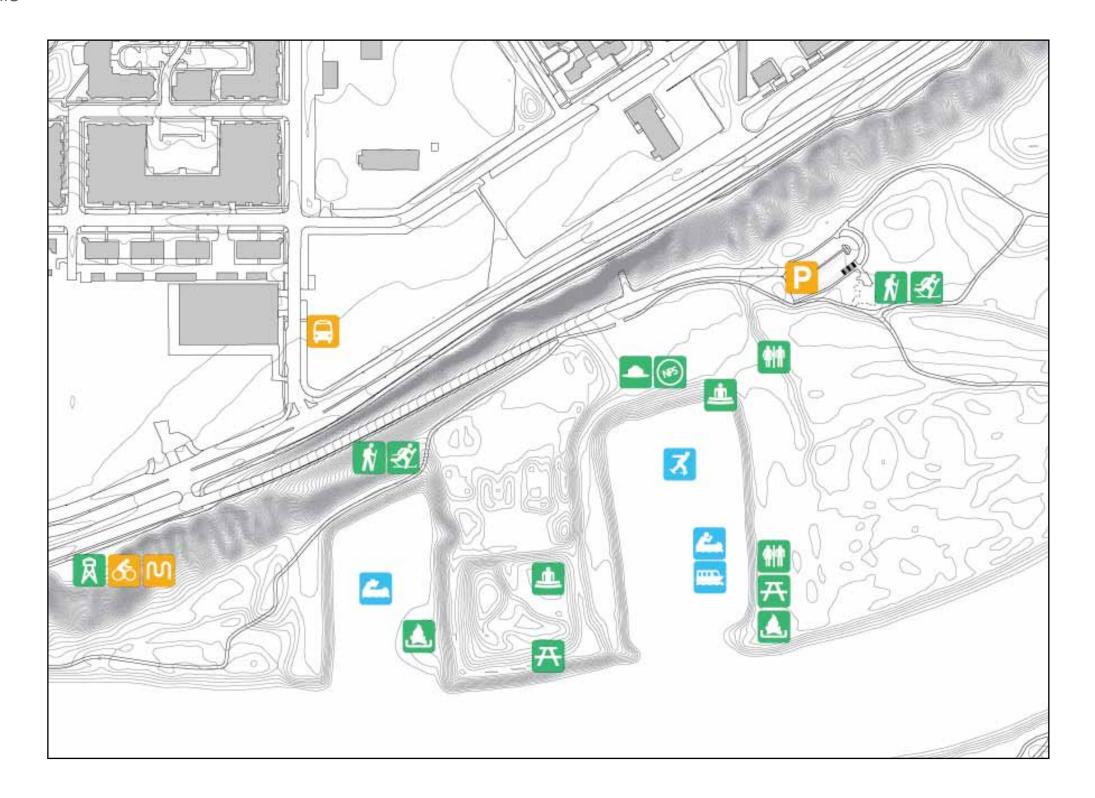












## **Connectivity: Mixed Use Activation**

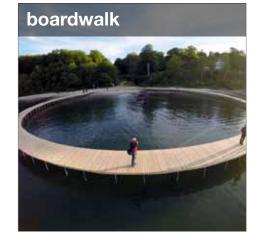
Detail area 2



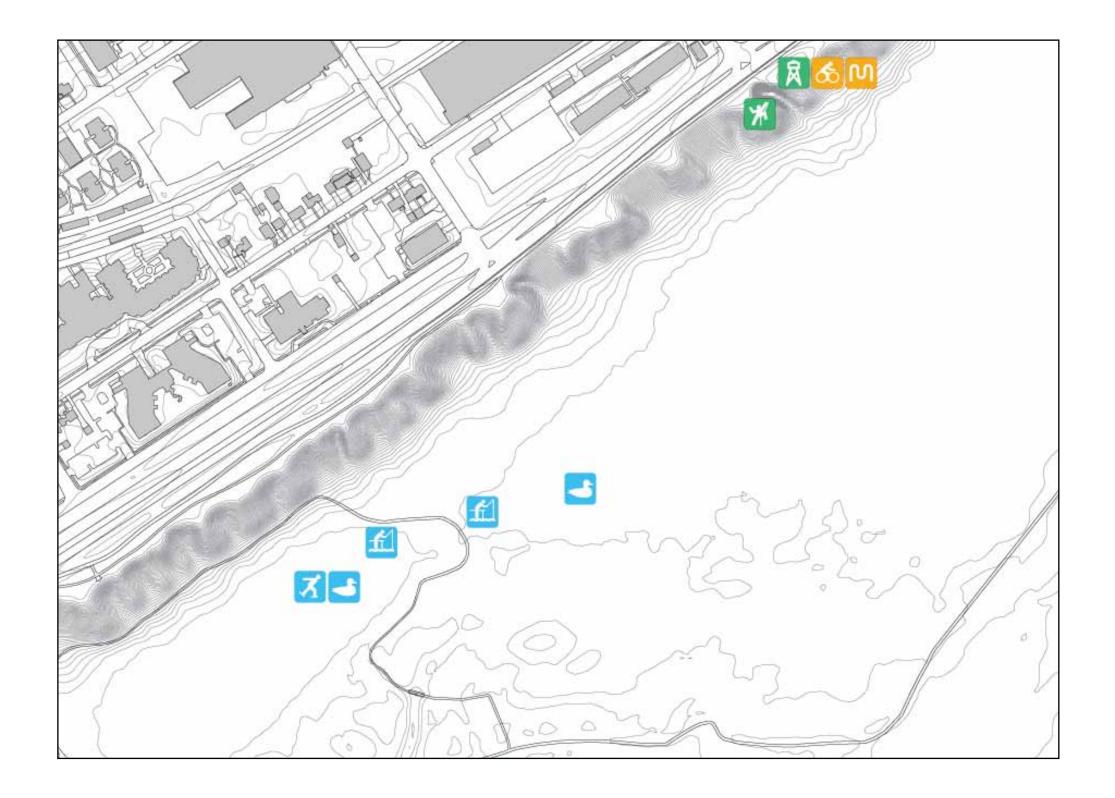












# **Programming**

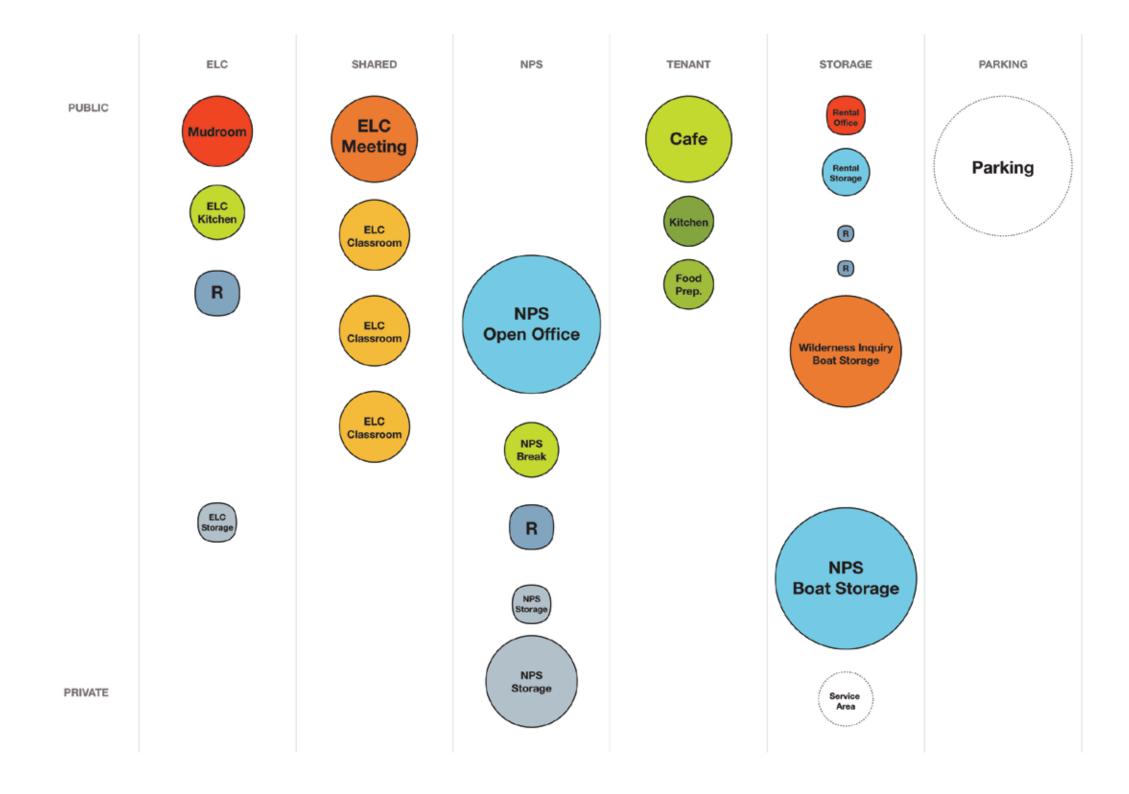
| DEPARTMENT | ROOM NAME      | Occup. (O) | sf/O    | AREA   | Length | Width | Height | DEPARTMENT | <b>ROOM NAME</b>  | Occup |
|------------|----------------|------------|---------|--------|--------|-------|--------|------------|-------------------|-------|
| ELC        | Mudroom        | -          | -       | 1,000  | 32     | 32    | 10     | Tenant     | Kitchen           | _     |
| ELC        | Classroom 1    | 30-49      | 15      | 900    | 30     | 30    | 10     | Tenant     | Preparation       | -     |
| ELC        | Classroom 2    | 30-49      | 15      | 900    | 30     | 30    | 10     | Tenant     | Café              | 5     |
| ELC        | Classroom 3    | 30-49      | 15      | 900    | 30     | 30    | 10     | Tenant     | Partners          | -     |
| ELC        | Meeting Room   | 18         | 15      | 600    | 24     | 24    | 10     | <br>,      |                   |       |
| ELC        | Storage        | -          | -       | 400    | 20     | 20    | 10     |            |                   |       |
| ELC        | Restrooms      |            |         | 600    | 24     | 24    | 10     |            |                   |       |
| ELC        | Kitchen        | -          | -       | 400    | 20     | 20    | 10     | Site       | Amphitheater      | -     |
|            |                |            | ELC     | NET sf | GROSS  |       |        | Site       | Shelter/ Restroom | -     |
|            |                | •          | S F     | 5,700  | 7,410  |       |        | Site       | Bike Station      | -     |
|            | 0.00           |            | J.      |        |        |       |        | Site       | Pet Refreshment   |       |
| NPS        | Office         | 51         | 76      | 3,876  | 62     | 62    | 10     |            |                   |       |
| NPS        | Office Storage | -          | -       | 1,700  | 41     | 41    | 10     |            |                   |       |
| NPS        | Break Room     | -          | -       | 400    | 20     | 20    | 10     |            | 0.11              |       |
| NPS        | Server         | -          | -       | 300    | 17     | 17    | 10     | Existing   | Café              | -     |
| NPS        | Restrooms      | -          | -       | 600    | 24     | 24    | 10     | Existing   | Boat Maint.       | -     |
|            |                |            | NPS     | NET sf | GROSS  |       |        | Existing   | Boat Maint.       | -     |
|            |                |            | S F     | 6,876  | 8,939  |       |        | Existing   | Fuel Station      |       |
| NPS        | Boat Storage   | -          | -       | 5,100  | 71     | 71    | 25     |            |                   |       |
| Wilderness | Boat Maint.    | -          | -       | 600    | 24     | 24    | 10     |            |                   |       |
| Shared     | Rental Storage | -          | -       | 300    | 17     | 17    | 10     |            |                   |       |
| Shared     | Rental Office  | -          | -       | 450    | 21     | 21    | 10     |            |                   |       |
| Shared     | Restroom       | -          | -       | 50     | 7      | 7     | 10     |            |                   |       |
|            |                |            | Storage | NET sf | GROSS  |       |        |            |                   |       |
|            |                | ľ          | SF      | 6,500  | 7,475  |       |        |            |                   |       |

|   | DEPARTMENT | ROOM NAME         | Occup. (O) | sf/O   | AREA   | Length | Width | Height |
|---|------------|-------------------|------------|--------|--------|--------|-------|--------|
|   | Tenant     | Kitchen           | -          | -      | 250    | 16     | 16    | 10     |
|   | Tenant     | Preparation       | -          | -      | 250    | 16     | 16    | 10     |
|   | Tenant     | Café              | 50         | 20     | 1000   | 32     | 32    | 10     |
|   | Tenant     | Partners          | -          | -      | -      |        |       | 10     |
| - |            |                   |            | Café   | NET sf | GROSS  |       |        |
|   |            |                   |            | S F    | 1,500  | 1,950  |       |        |
|   | Site       | Amphitheater      | -          | -      | 500    | 22     | 22    | 10     |
|   | Site       | Shelter/ Restroom | -          | -      | 1,000  | 32     | 32    | 10     |
|   | Site       | Bike Station      | -          | -      | 300    | 17     | 17    | 10     |
|   | Site       | Pet Refreshment   | -          | -      | 150    | 12     | 12    | 10     |
|   |            |                   |            | Site   | NET sf | GROSS  |       |        |
|   |            |                   |            | S F    | 1,800  | 2,070  |       |        |
|   | Existing   | Café              | -          | -      | 2700   | 30     | 90    | 10     |
|   | Existing   | Boat Maint.       | -          | -      | 4800   | 60     | 80    | 10     |
|   | Existing   | Boat Maint.       | -          | -      | 5400   | 60     | 90    | 10     |
|   | Existing   | Fuel Station      | -          | -      | 420    | 30     | 14    | 10     |
| - |            |                   |            | Exist. | NET sf | GROSS  |       | -      |
|   |            |                   |            | S F    | 12,900 | 0      |       |        |

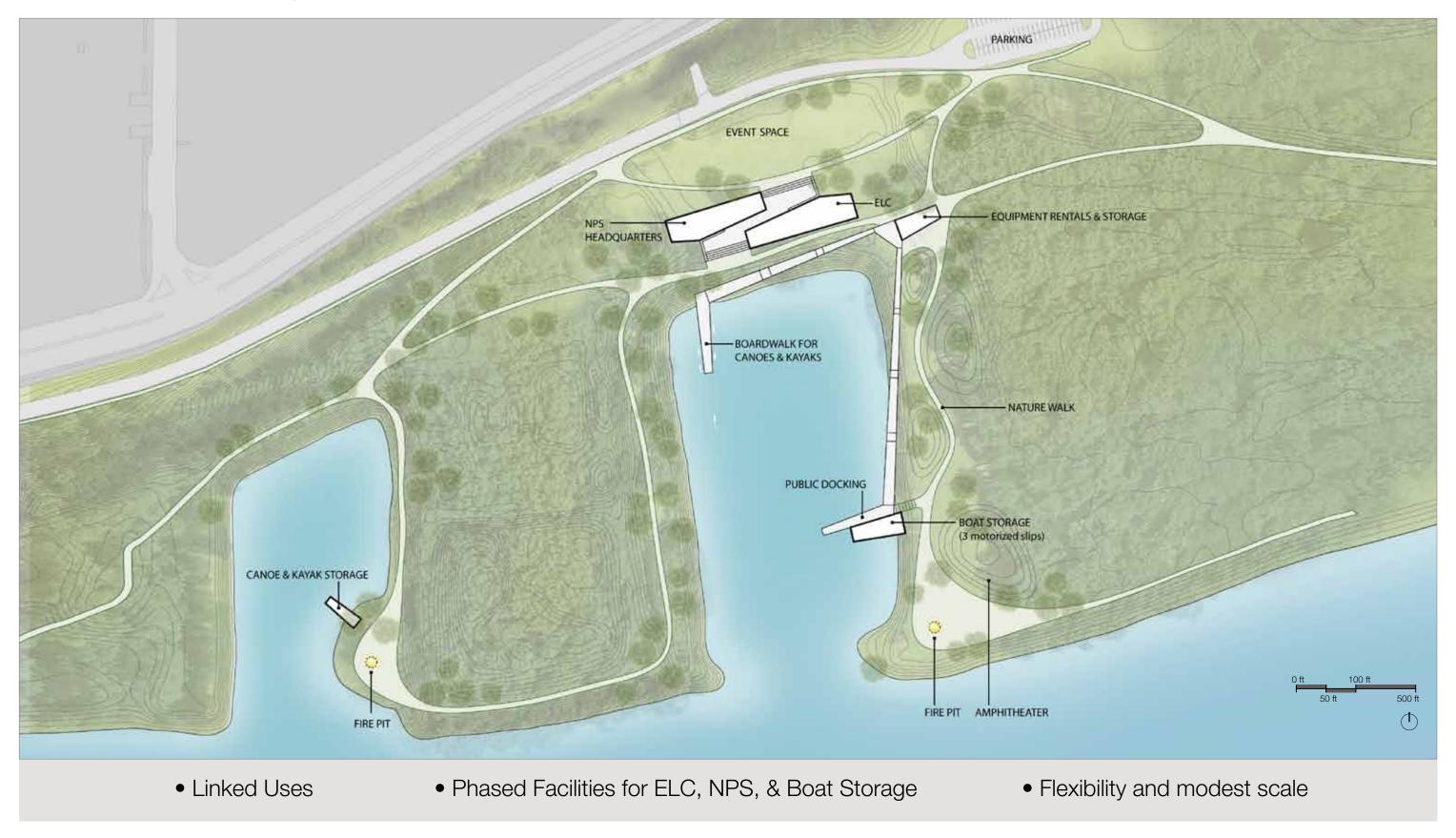
TOTAL 22,376 27,844

<sup>\*</sup> Total excludes Existing

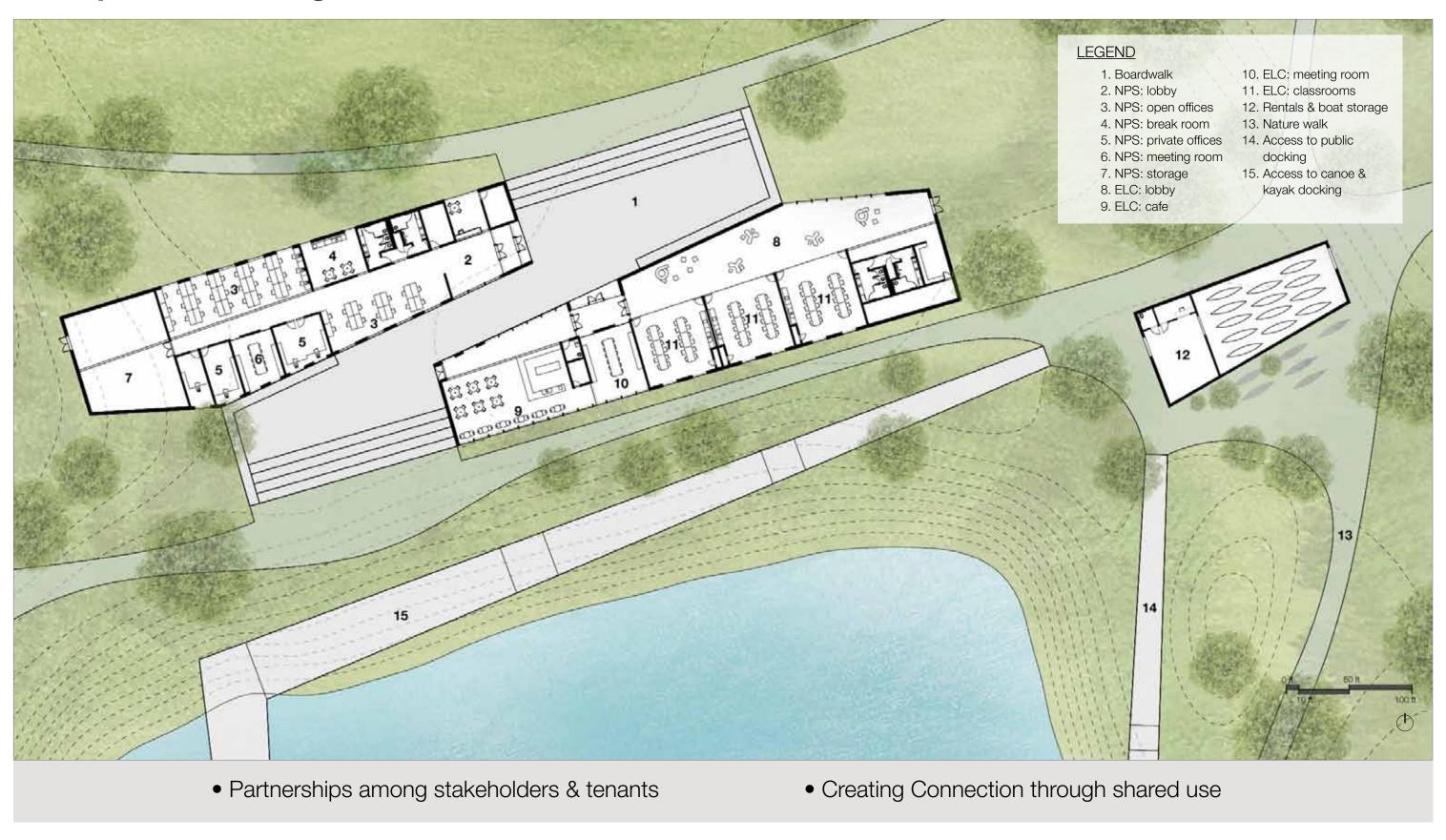
## **Program Relationships**



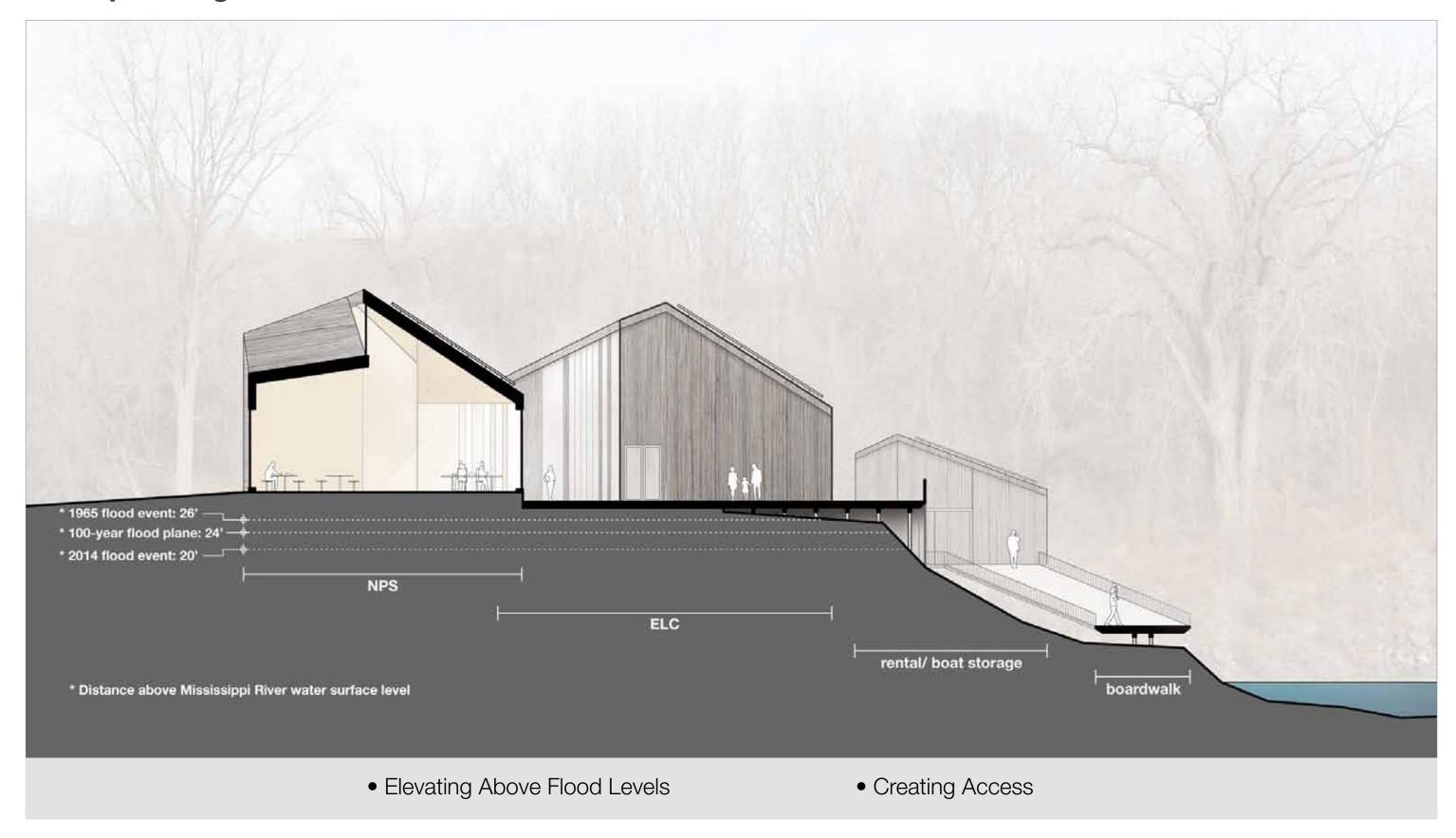
## **Principles: Creating a Campus**



## **Principles: Enhancing Connections**



## **Principles: Light on the Land**



# Principles: Visibility from the bluff & Mixed-use Activation



## **Principles: Forward Thinking**



• Renewable energy

• Resilience

• Day lighting and natural materials

# **Principles: Site Based Programming**



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# **Principles: Site Based Programming**



• Shared use & compatible partners

• Visibility of river ecologies

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## **Principles: Creating a Safe, Mixed-Use Harbor**



Safe & contained spaces for beginning kayakers

• Boardwalk site connectivity & access

• Maintaining safe motorized boat access

# Principles: Creating a Safe, Mixed-Use Harbor







Upper Harbor

4

**Implementation** 

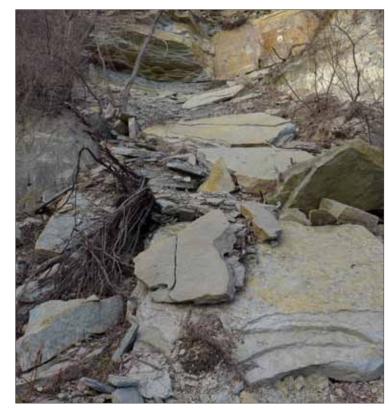
#### **Considerations**

Following the submission of the recommendations will need to be a 6-9 month transition period where recommendations and considerations are reviewed and the process of negotiation begins to determine if and how the proposed project will proceed. Partners and stakeholders will need to meet internally and collectively to determine leadership, ownership and partnership roles and responsibilities relative to design, construction, management and operations, and programing, as well as phasing, fundraising and revenue generation strategies.

The terms to be negotiated are interconnected and need to be addressed as part of a comprehensive, integrated strategy and supporting agreements.

- Identity Branding the endeavor as a mixed-use, river focused, center of year-round activity.
- **Leadership** A leadership in collaboration model may be appropriate. Depending on what organizations are ultimately partners, leadership can be based on ownership, technical expertise and capacity, and can vary from role to role. Process for decision-making must be established and formalized in an agreement.
- **Ownership** Ownership is tied to leadership, and clear title and responsibility must be established for land, buildings, infrastructure, maintenance and operations.
- Partnership Roles and responsibilities clearly defined in agreement and can include decision-making, tenancy, fundraising, programming, revenue generate etc.
- **Phasing** Dependent on fundraising, relocation processes and time-tables, regulatory processes and other variables TBD.
- **Fundraising** Clear expectations/mission defined for construction, maintenance, operations and programming fundraising. Roles and responsibilities defined for both public and private fundraising and supportive communications.
- **Programming** Feasibility study to determine leadership, river focused curriculum, programming and education opportunities, business plan.
- **Regulatory** Engage early-on the various regulatory bodies to understand the requirements and time tables.
- **Engagement** Create a plan to engage the community, civic leadership and potential funders early and often. NOTE: the Watergate Marina site is within a larger Native American sacred site and a process of engagement with the Native American community must be established immediately.





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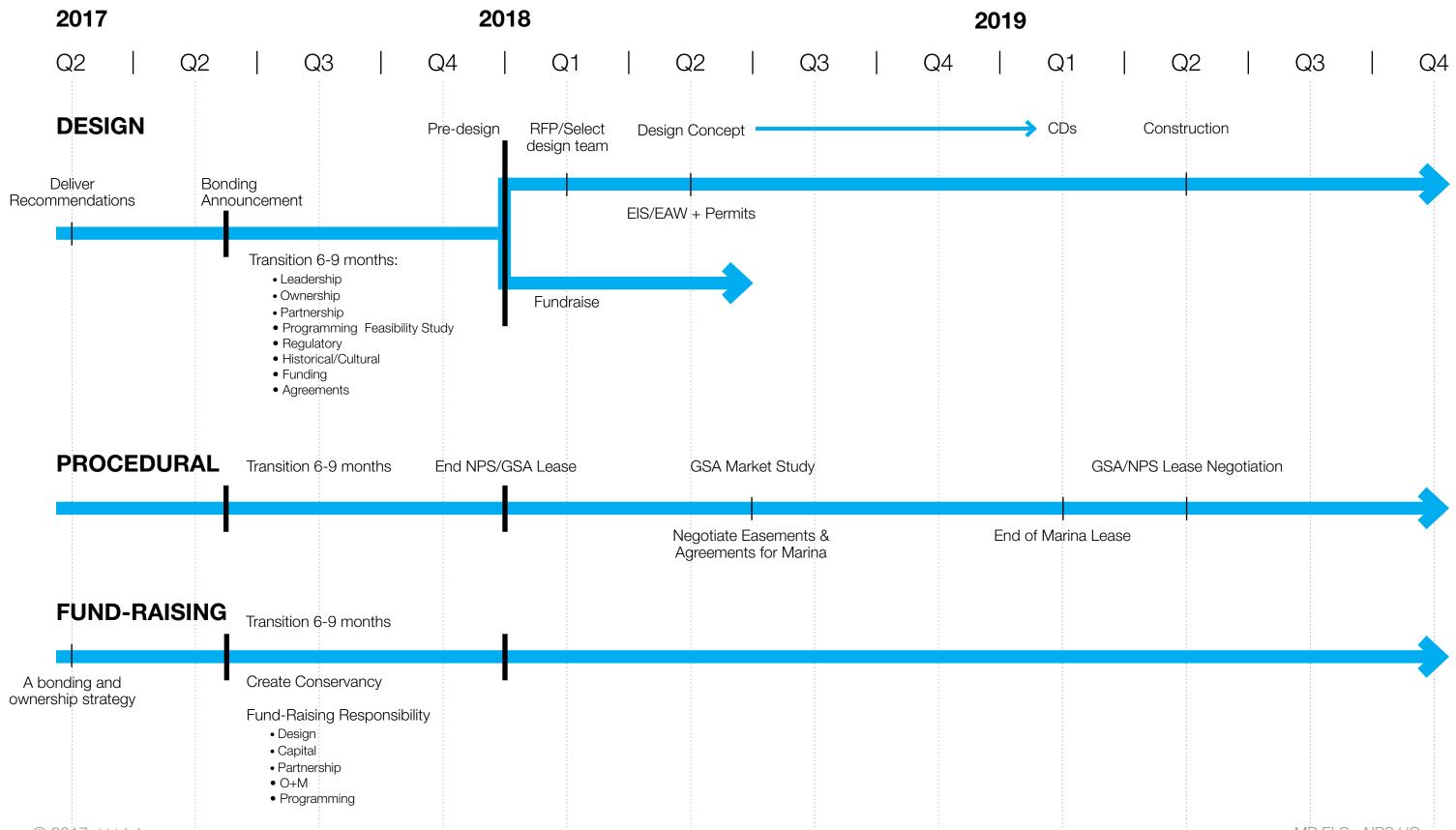
### **Considerations**

- Revenue Generation/Business Plan Clear expectations for revenue generation must be defined and breadth of opportunities explored as part of creating a River Center business plan for capital and long term maintenance, operations and programming funding. Building on existing partnerships, and shaping new partnerships, will comprise part of this important step.
- Revenue Generation Opportunities With location of a combined Environmental Learning Center and National Park Service Headquarters at Watergate Marina, stakeholders have an opportunity to incorporate revenue generating activity to support the facility and its programs. The stakeholders group will coordinate the identification of potential partners or vendors.



## **24 Month Timelines**

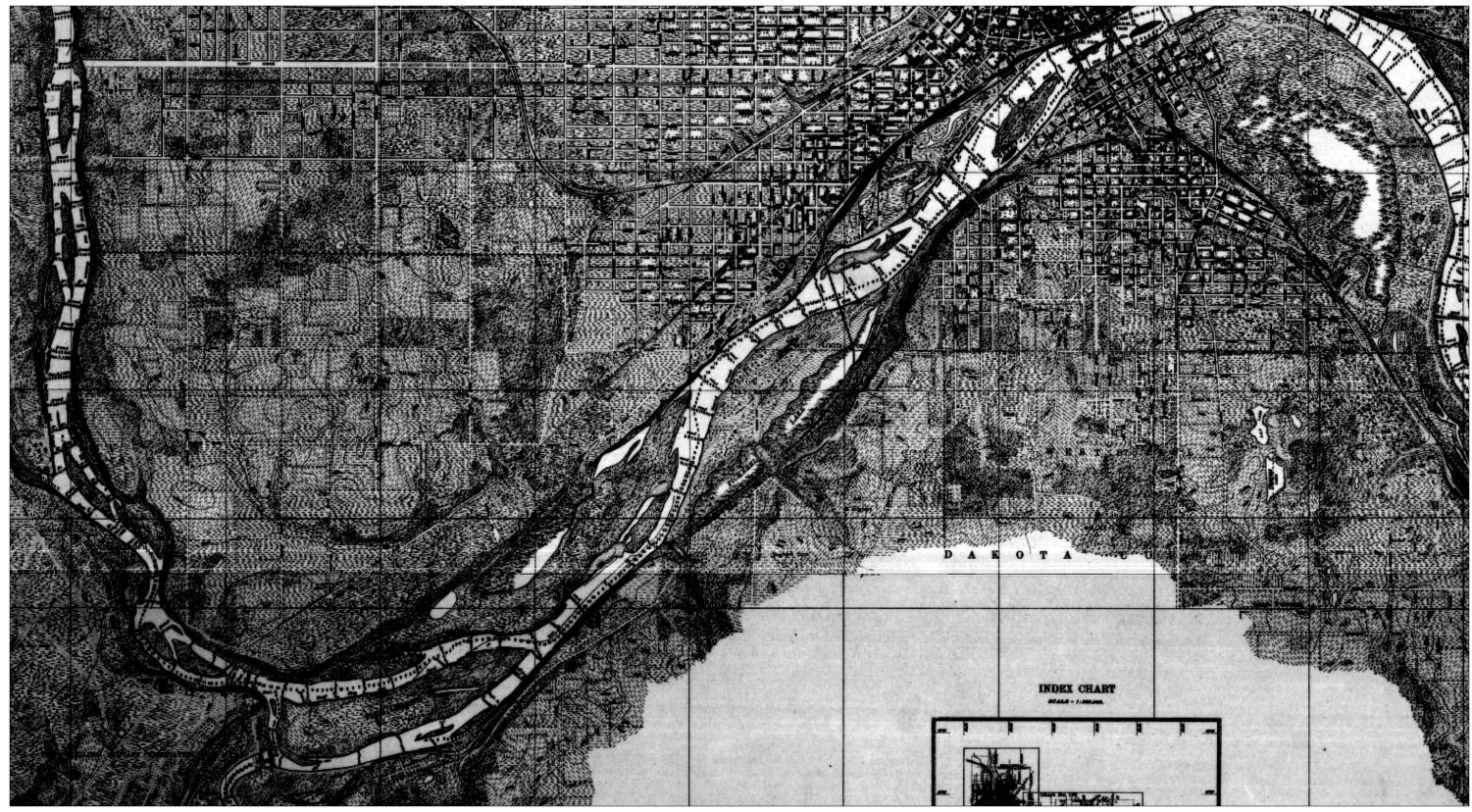
## **ELC/NPS** Headquarters



# Appendix

A. Historic Maps

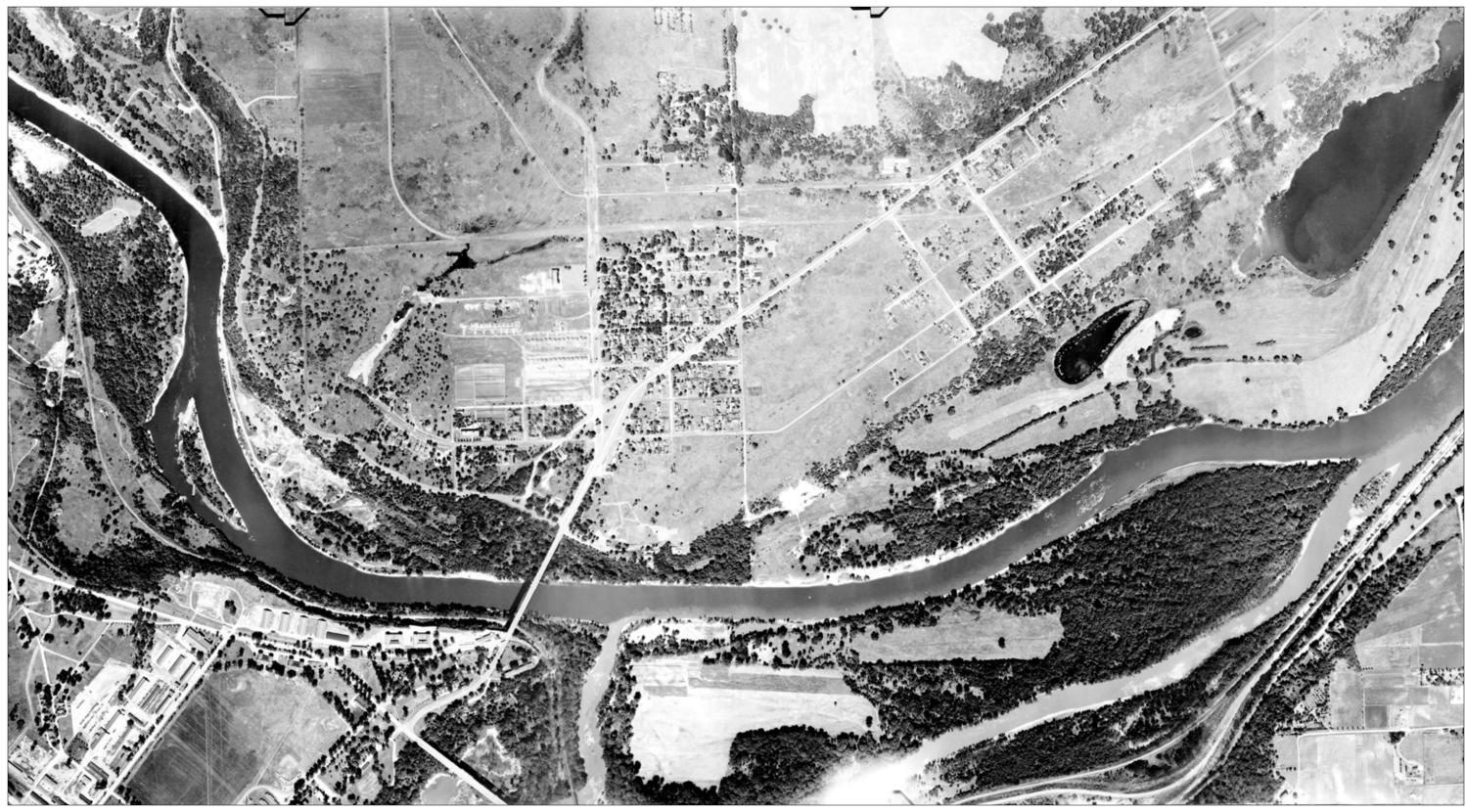
## **Historic Maps** 1890's Mississippi River Commission Map



North 🖰

MR ELC - NPS HQ A | i

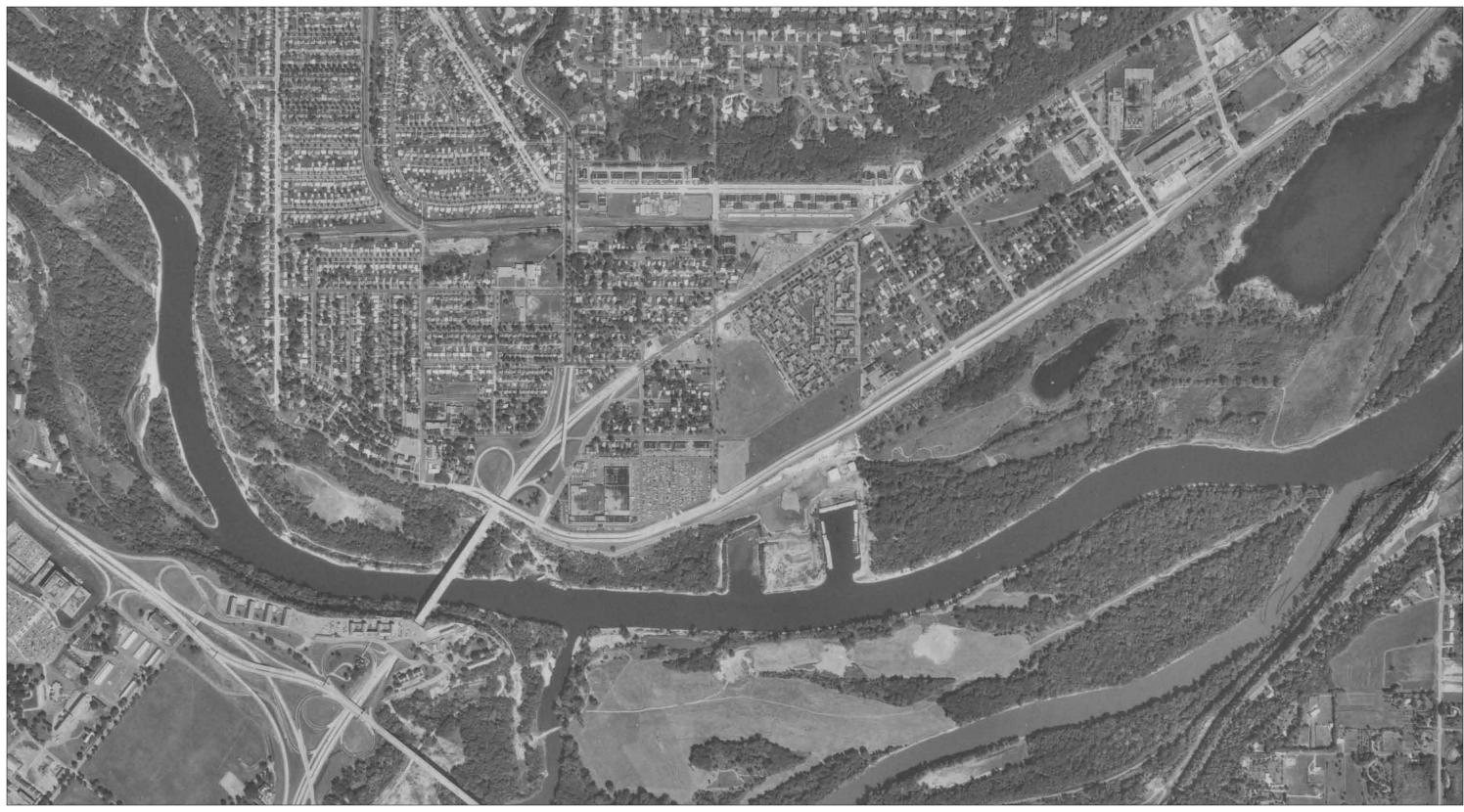
**Historic Maps** 1950's Minnesota Historical Aerial Photo - Before Harbors



North 🖰

MR ELC - NPS HQ A | ii

## **Historic Maps** 1970's Minnesota Historical Aerial Photo - After Harbors

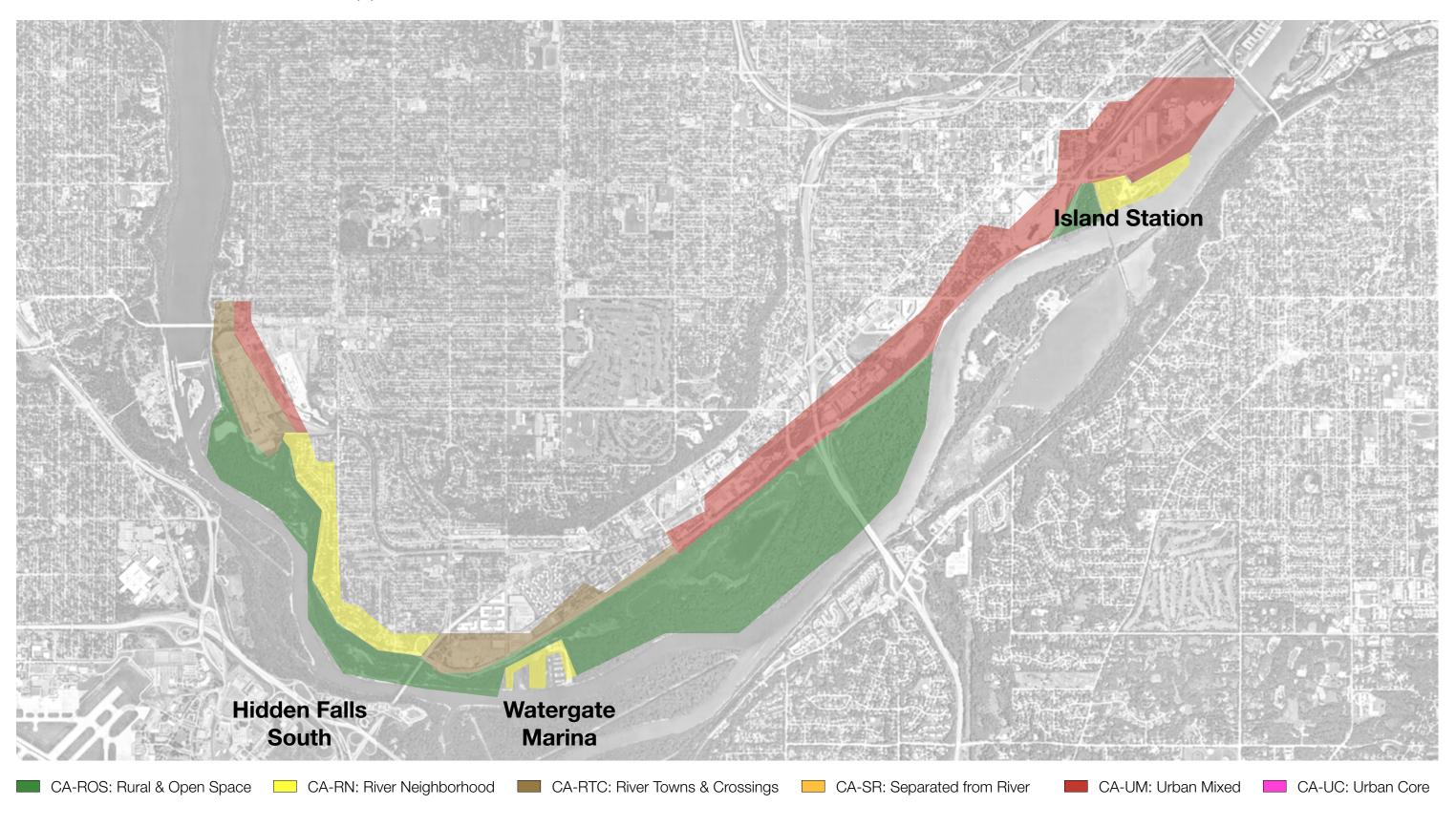


North 🖰

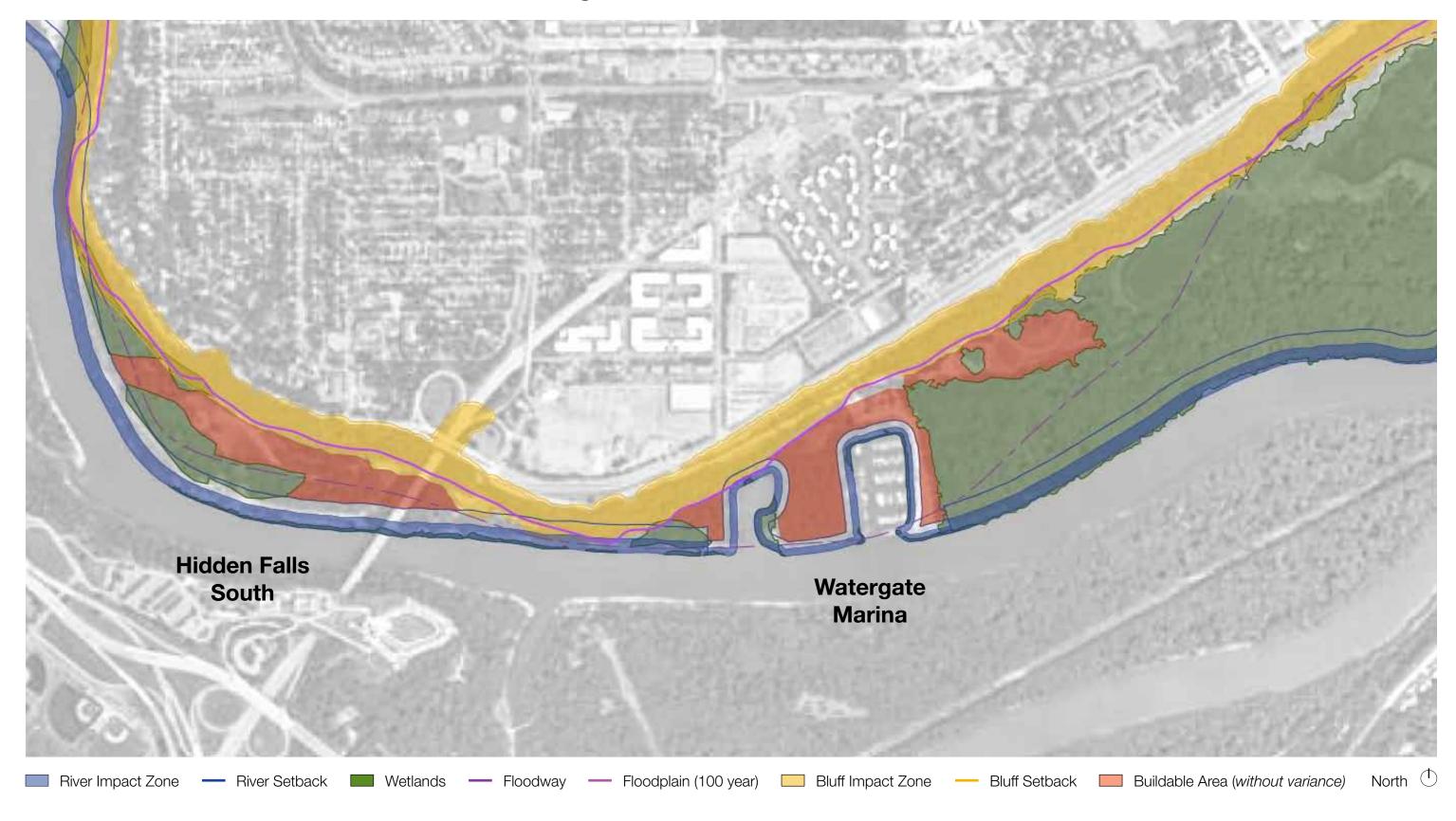
MR ELC - NPS HQ A | iii

B. Watergate Marina

# Site Restrictions Mississippi River Corridor Critical Area

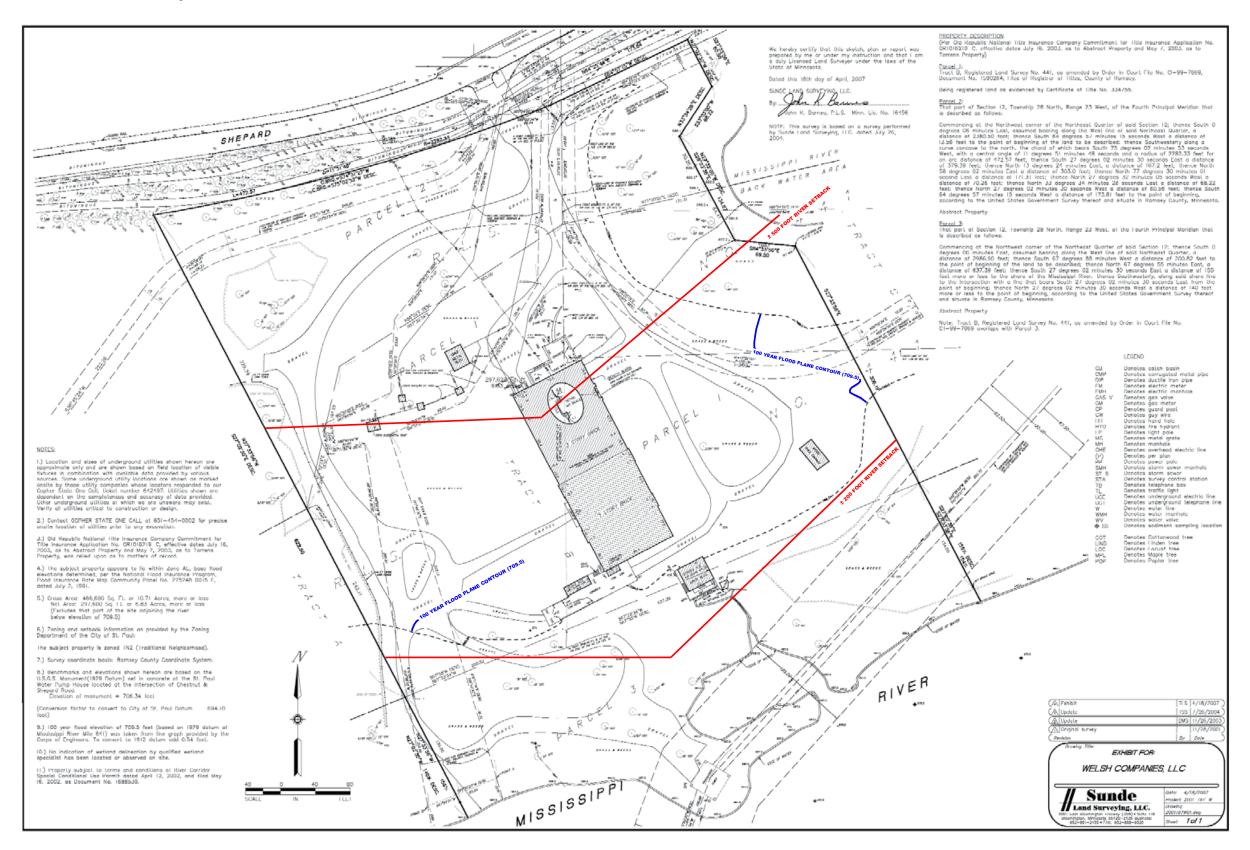


# Site Restrictions Hidden Falls South and Watergate Marina



C. Island Station

### **Island Station** Survey, 2007



North  $\bigcirc$ 

MR ELC - NPS HQ **B** 

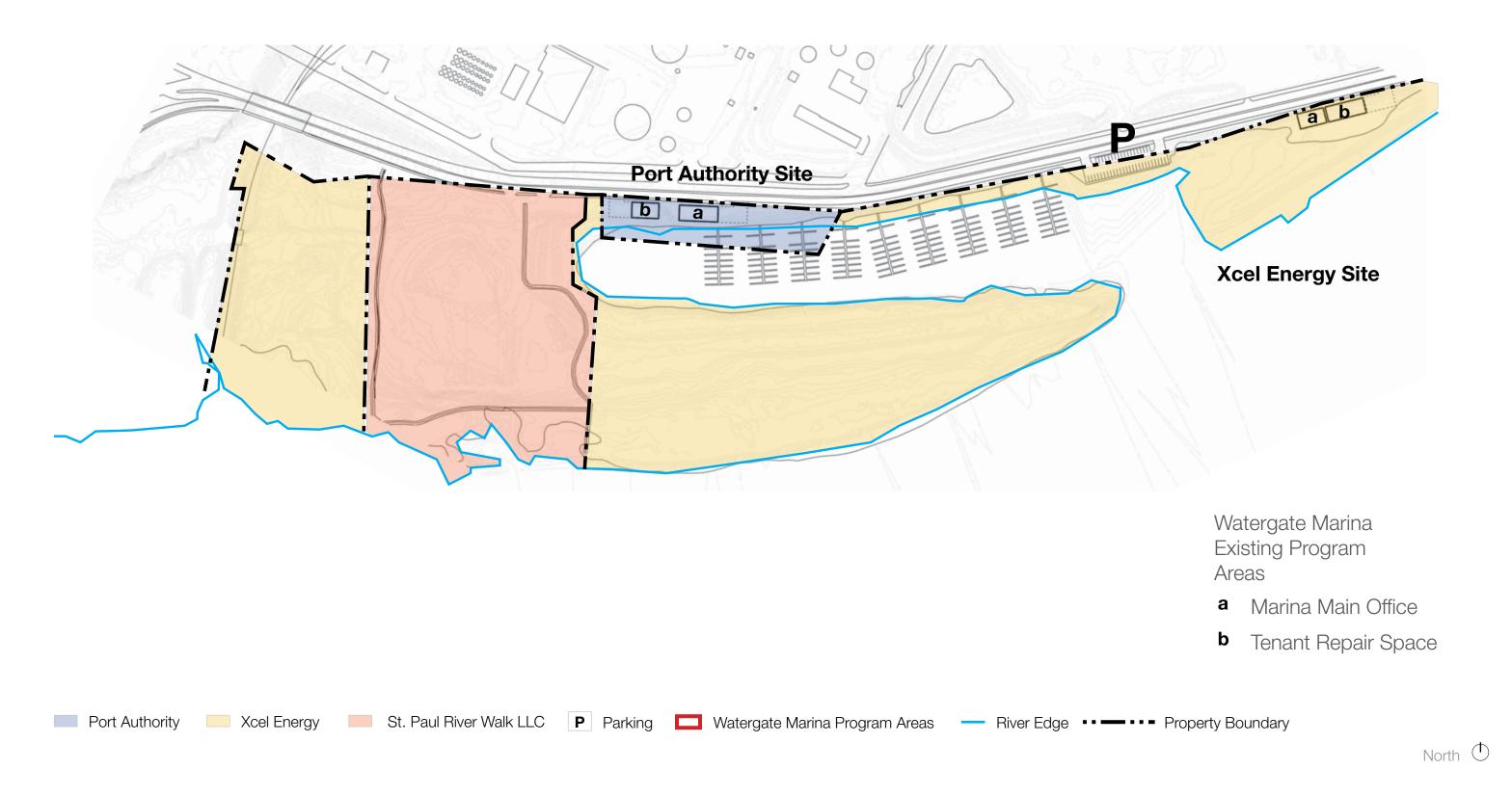
# Island Station Welsh Companies' Proposed 2009 Development on Island Station





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# **Island Station** Potential Sites to relocate existing program areas from Watergate Marina



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D. Precedent Studies

### **Programming Mtg. 1:**

Gale Woods Farm Precedent

Minnetrista, Minnesota

**Overview:** "a unique educational opportunity where visitors of all ages gain an understanding of agriculture, food production and land stewardship."

Activities: Archery, Art Education, Biking, Boating, Camping, Disc Golf, Dog Trails, Educational Farming, Fishing, Gardens, Geocaching, Golfing, Hiking, Horseback riding, History Exploration, Mountain Biking, Nature Education, Paddling, Picnic Areas, Play Areas, Swimming, Cross-country Skiing, Downhill Skiing, Skjoring, Sledding, Snowshoeing,























Farm Education

Hands on Education

Introduction to Animals

Recreation

### **Programming Mtg. 1:**

Schuylkill Center for Environmental Education

Schuylkill River, Philadelphia, Pennsylvania

**Overview:** The Schuylkill Center is an urban environmental education center that reaches all age groups through classes, experience, and art.

























Nature Play

Hands on Education

Community Events

Making

Local Art

### **Programming Mtg. 1:**

Marine Environmental Education Center in Malmo by Nord

Malmö, Sweden

**Overview:** "The proposal merges indoor and outdoor spaces under a single, large roof to create an engaging learning landscape centered around marine life." - AD

**Activities:** Floating laboratories on small removable pontoons, teaching signs on the seabed and underwater sea binoculars. Display of building's water handling, energy consumption and ventilation functions. Interaction with marine life, engaging learning landscape, play as learning, and global warming education.









Learning landscape

Connection to landscape

Outdoor Education

MR ELC - NPS HQ C | i

# **Site Topography**

Grace Farms by Sanaa

New Canaan, Connecticut









Following the landscape

Connection to landscape

Cafe

# **Site Topography**

Norwegian National Tourist Route Stops

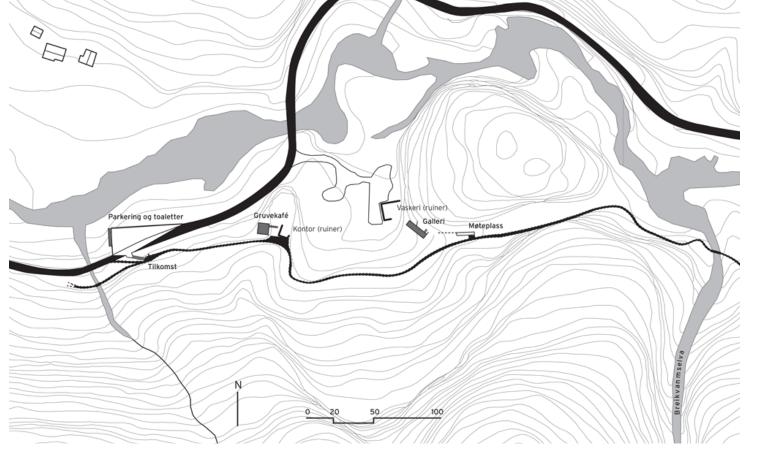
Sauda, Norway











Visitor center Cafe Public restrooms Site plan

### **Overlook**

### Norwegian National Tourist Route Stops





Tourist route stop Stegastein Viewing Platform by Todd Saunders and Tommie Wilhelmsen

Overlook

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### **Overlook**

### Norwegian National Tourist Route Stops







Tourist route stop, walkway and bench

Mining cave entrance

## **Waterfront / Floodplains**

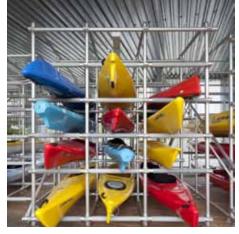
Scenic Hudson Land Trust: Hudson River Education Center and Kayak Pavilion by ARO

Beacon, New York





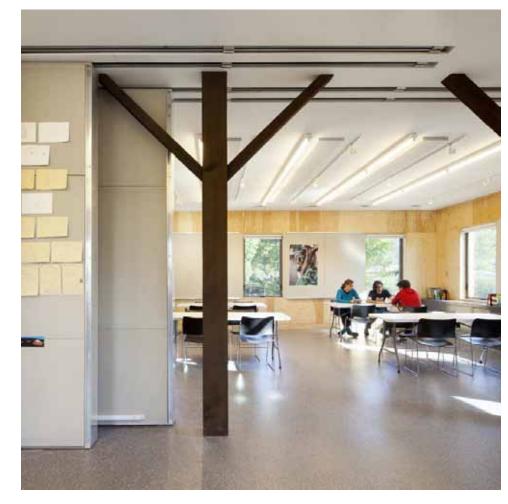












Community Spaces and Classrooms

## **Waterfront / Floodplains**

Haystack Mountain School of Crafts by Edward Larrabee Barnes Associates

Deer Isle, Maine











Outdoor gathering space Campus

Light touch on the landscape

# **Waterfront / Floodplains**

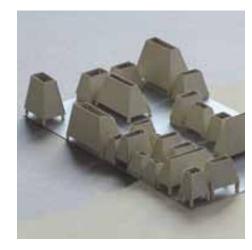
Brockholes Nature Reserve by Adam Khan

Preston, England











Floating in the wetlands Dock entrance Interior

### **Revenue Generation**



2288 University Avenue West Saint Paul, MN 55114 ph) 651.645.4644 www.donjek.com

#### Marina Slip Research: Compiled March/April, 2017

#### **General Market Overview Findings:**

- Most Marinas' slips are majority buy/rent; fewer transient slips (overnight, temporary)
- Marinas that are not near bridge construction or close to cities are highly trafficked by boaters during the boating season.
- Marinas within easy walking distance of city centers, local shops, restaurants, et cetera, generate significant revenue for those businesses.
- Many marinas offer discounts for local residents (10-15%).
- Most marinas along the section of river considered have 200-300 slips.
- Overnight, transient slips typically range from \$1.00-2.00 per foot per night.
- Seasonal rental rates vary drastically depending on boat size, marina location, membership fee and additional amenities (20ft~\$750-\$3,000; 50ft~\$3000-8,000)
- Slip prices also vary depending upon the location within a marina.
- All marinas contacted, indicated they are very busy during the boating season and slips are almost always full.
- The city-owned marinas reviewed, fund all marina expenses and area businesses do not formally contribute, although the businesses benefit from summer marina traffic.
  Generally, the marinas seem to have a good relationship with local business owners.
- The city-owned marinas, Red Wing and Lake City, generate a significant profit for the city. Location is a big factor, because both marinas are right in the city and provide access to local businesses, amenities and activities.

#### **Pricing Comparison**

| <u> </u>                       |                      |                   |                   |
|--------------------------------|----------------------|-------------------|-------------------|
| Marina                         | "Transient"          | Annual slip fee – | Annual slip fee – |
|                                | docking fee          | 26'               | 40'               |
| Red Wing/Bay Point             | \$1.20/foot          | \$1,271           | \$2,384           |
| Red Wing/                      | \$15/night < 28 feet | \$1,132           | Only slips < 40'  |
|                                | \$20/night > 28 feet |                   |                   |
| Lake City                      | \$1.00-\$1.40/foot   | \$1,650           | \$2,900           |
| Bayport Sunnyside (slip rental | \$1.25/foot          | \$3,300           | \$5,200           |
| bundled with winter storage)   |                      |                   |                   |
| St. Croix Marina               | \$40/night < 29 feet | Undetermined      | Undetermined      |
|                                | 60/night > 60  feet  |                   |                   |
| Watergate Marina               | Undetermined         | \$1,758 (2015)    | \$2,930 (2015)    |

#### Red Wing Marina (Owned by city, on Mississippi River)

#### Summary

- 284 slips total (2 locations)
- 128: right in town within walking distance (highly-sought after by boaters)
- 97% full (just the right amount: "As full as I want it to be")
- ~3%: set aside for visitor docs (holidays, festivals, concerts, summer weekends-- fill most every weekend in summer)
- Transient boat slips: nightly rent only (\$1.20 per foot per night)
- Transient boaters can stay for as long as want (By the month if they want)
- City leases some docs to boat clubs that sell slips to members, but city doesn't sell slips themselves (lease from city= max of 25 years)
- Anyone on river can lease slips, but discount for residents

#### Ownership/Management

- City owns entire marina + pays for all costs
- Nearby businesses do **not** directly fund marina
- City poll: average person spends \$300 per boat per weekend to be in Red Wing (including: food, liquor, eat in area); does not include boat, fuel and slip expenses
- Marina is a big generator of business in summer to businesses near water

#### Lake City Marina (Owned by city, on Mississippi River/Lake Pepin)

#### Summary

- Almost 100% full in summer; have a waiting list for 2017 season
- Transient slips full on weekends

#### Ownership/Management

- City owns entire marina + pays for all costs
- Nearby businesses do **not** directly fund marina
- Businesses, shops and restaurants are all within walking distance of marina; summer boat traffic generates a lot of business around the marina
- Marina generates significant profit for city; most of the money goes back into public city facilities (library, parks, ect.)
- New 10,000 square foot Administration Building
- Open 7 days a week, April thru October
- State-of-the-art floating docks 16'-50', tie-alongs to 90'
- Electrical service 30 amp, 125 volt; 50 amp, 125/240 volt
- Clean restrooms and shower facilities

### **Revenue Generation**

- 91 octane regular gasoline
- Diesel available upon request
- 2 Pump out stations and portable toilet dump station
- Monitor VHF Channel 16
- 35 ton Marine Travelift
- Mast jib crane
- 2-lane launch ramp
- Average depth 8'
- Transient dockage
- After hours security
- Tennis courts
- Swim beach
- Just steps from shopping, food and entertainment
- Year around Security

#### Sunnyside Marina, Bayport (Association marina, on St. Croix River)

#### **Summary**

- Only overnight docking, no daily docking (min fee of \$35, over 28ft \$1.25 per foot-- 8 slips)
- Almost all marinas along St. Croix River are association marinas (owned by boaters)
- For newer marinas such as Bayport (1980s establishment), permits have requirements for proportion of slips for sailboats, for motor boats, etc., as a DNR strategy of broadening access to river. These newer marinas often have permits that require more overnight boat slips than previously in place.
- Nearly 100% occupied year-round
- They occasionally do month-to-month slip rent when there is less boat traffic, but prefer not to.
- Weekends are very busy throughout summer, not so much on weekdays
- Overnight slips are a way to show off marina and if patrons are local they may convert to seasonal renters
- Renting seasonally is preferred

#### Afton Marina & Yacht Club (Association marina, on St. Croix River)

#### Summary

- 184 slips total.
- Structured like a country club (buy a membership, get a slip)
- People who no longer use a slip they bought rent it out to others
- No daily slip rental, only seasonal.
- Slips are in demand only 5 or 6 free right now.
- Slips less than 40' are in highest demand
- The City of Afton owns 4 or 5 slips, and they only offer temporary docking (no overnight).

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### **Revenue Generation**



2288 University Avenue West Saint Paul, MN 55114 ph) 651.645.4644 www.donjek.com

#### High Level List of Prospective Revenue Relationships April, 2017

Prospective collocation of the Environmental Learning Center and the National Park Service headquarters offers the benefit of attracting several audiences or customer types to the location. As a result, prospective revenue relationships are somewhat diverse in their seasonality and type of use and visitation of the site. Examples of partners may include:

**Hospitality:** The City has developed and maintains contractual relationships with seasonal and year round restaurants and cafes. Visitors to the facility would value availability of food on site, and it would likely extend the average duration of a visitor's stay. The riverside location, views, and proximity to activity centers including Highland Park, the 494 corridor in Bloomington, and the MSP International Airport could also entail an attractive combination for potential food partners looking to serve a broader customer base.

**Environmental Preschool:** The consultant team and City staff have received feedback during this process that a preschool use could be a viable partner. Substantial green space and natural areas, river access, and a central location to neighborhoods in Saint Paul, Minneapolis and Bloomington could present an opportunity for a preschool on site.

**School Districts:** Saint Paul Parks and Recreation is engaged with metro school districts including but extending beyond Saint Paul Public Schools. Existing and new partnerships with school districts could include programming at the Environmental Learning Center, in tandem with the National Park Service.

**Equipment Rental, Storage and Construction:** With a collocated Environmental Learning Center and National Park Service headquarters, the Watergate Marina site offers users, space and direct river access to make it highly suited to boat rental, storage and construction.

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