



# BURLINGTON SOUTH RIVERFRONT PARK EXTENSION

University of Iowa

May 8<sup>th</sup>, 2025

**IOWA**  
ENGINEERING



# Our Team



Jerin Ugrin  
Project Manager



Claire Recker



Jenna Dinges



# Agenda



PROJECT  
LOCATION



PROJECT  
DESCRIPTION



FINAL DESIGN



COST ESTIMATE

# Project Location



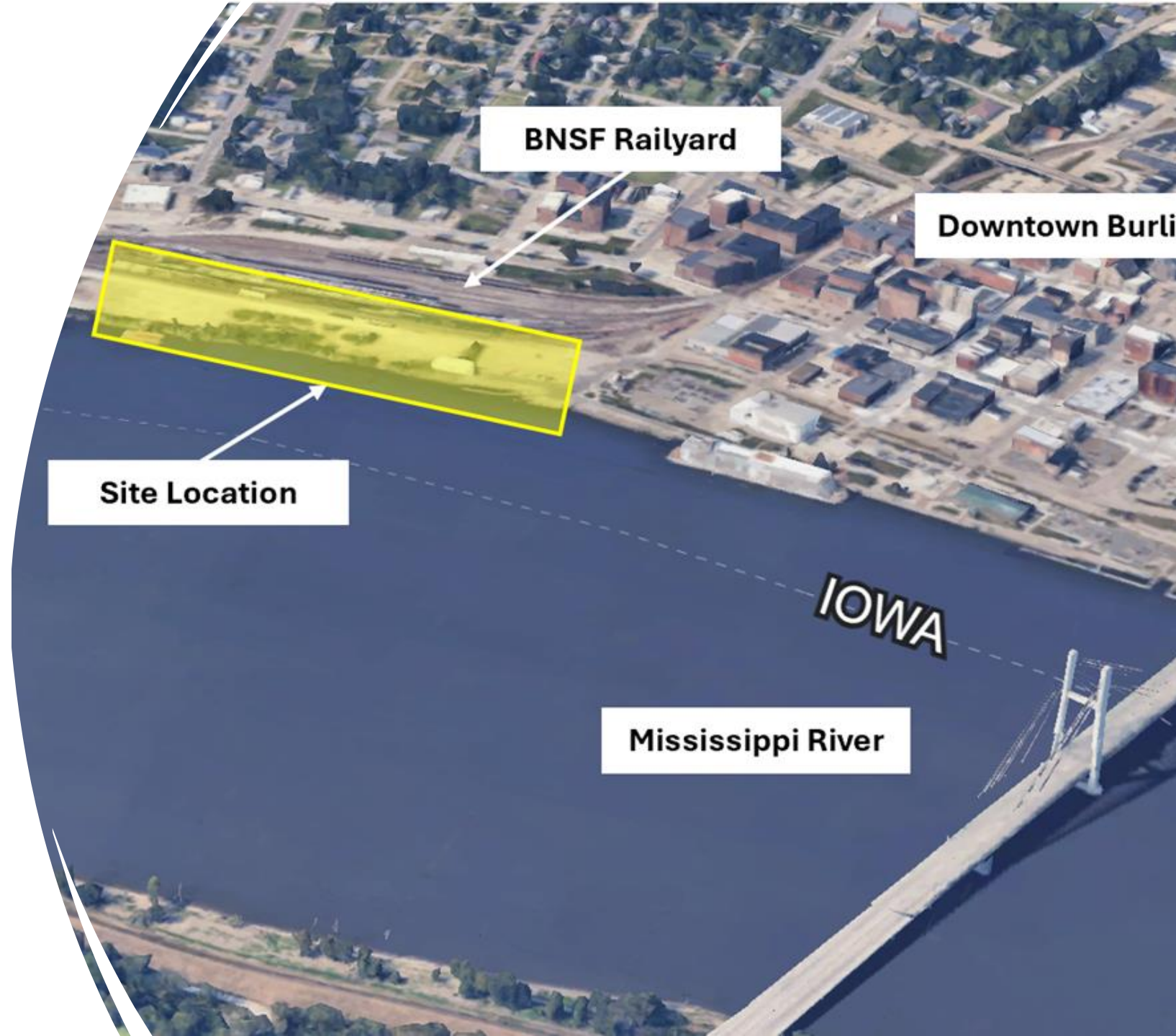
Along Mississippi  
River



Adjacent to the  
downtown district



East side of the  
BNSF Railyard







# Project Goals

- Extend riverside park south by redeveloping a former industrial site
- Beautify the riverfront
- Provide recreational and leisure activities
- Securely separate public use from the railyard
- Incorporate the history of the rail industry
- Provide a flexible and resilient design



# Existing Conditions







Existing  
Conditions

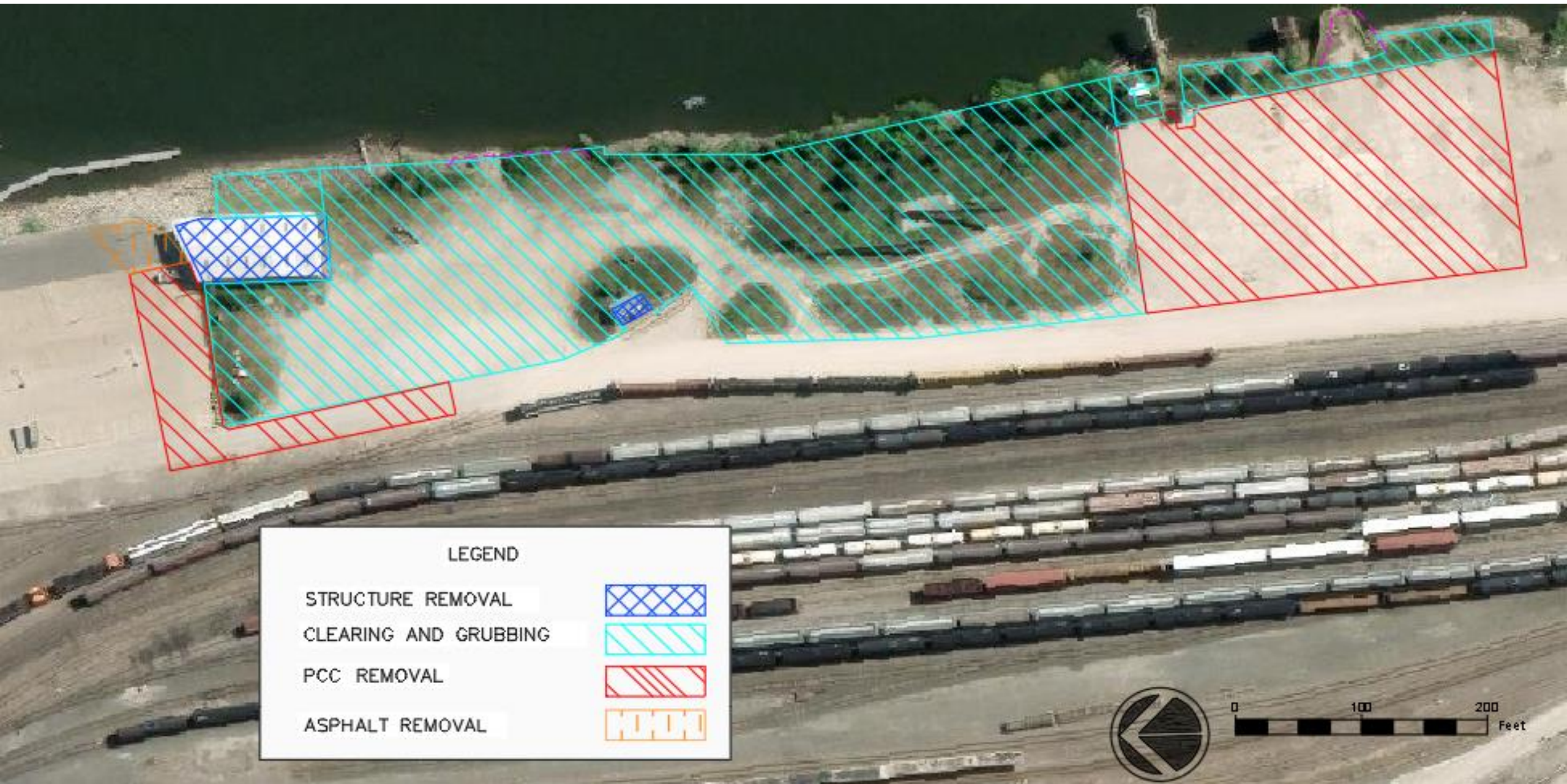


# Existing Conditions





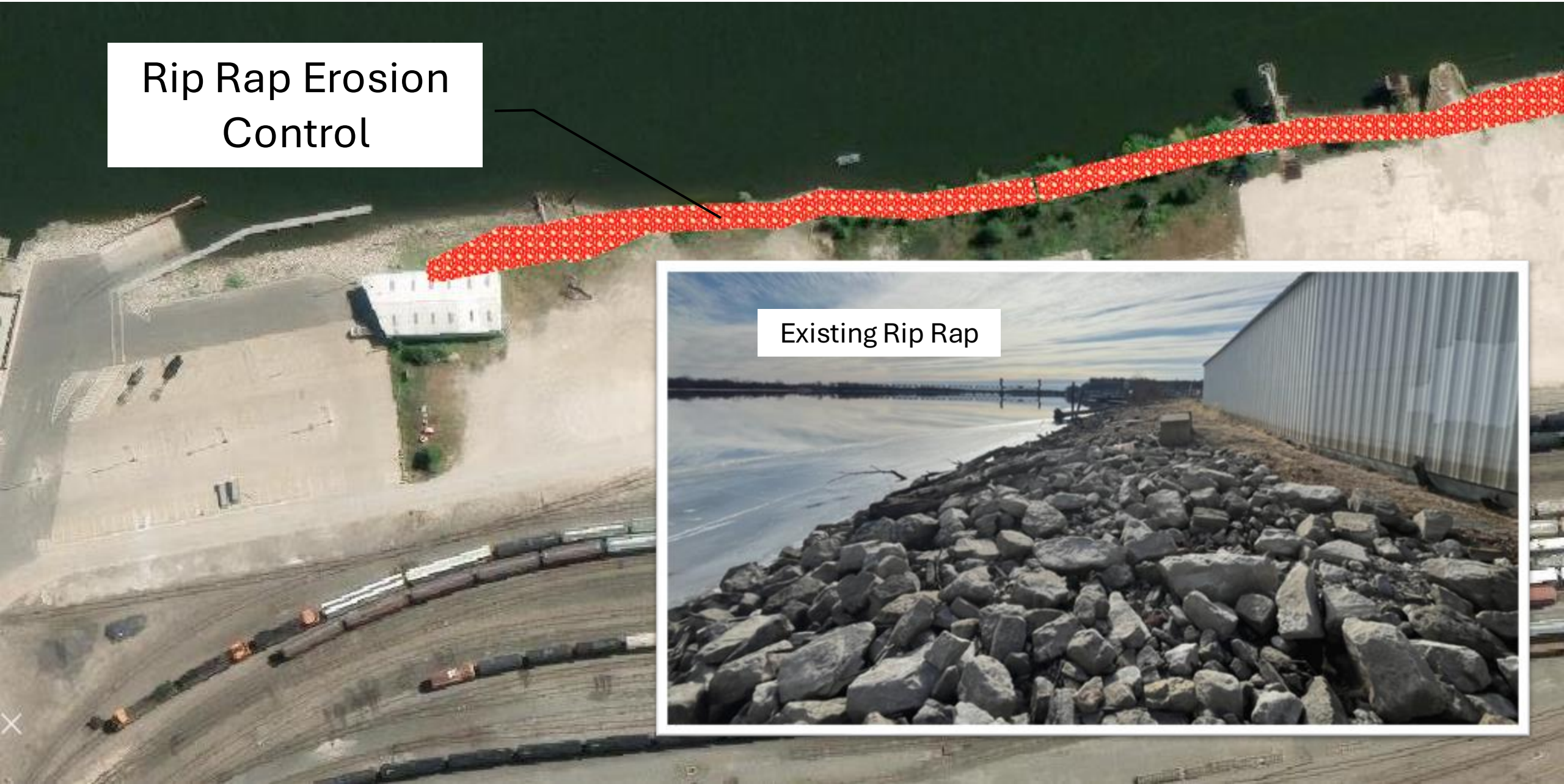
# Site Demolition and Cleanup



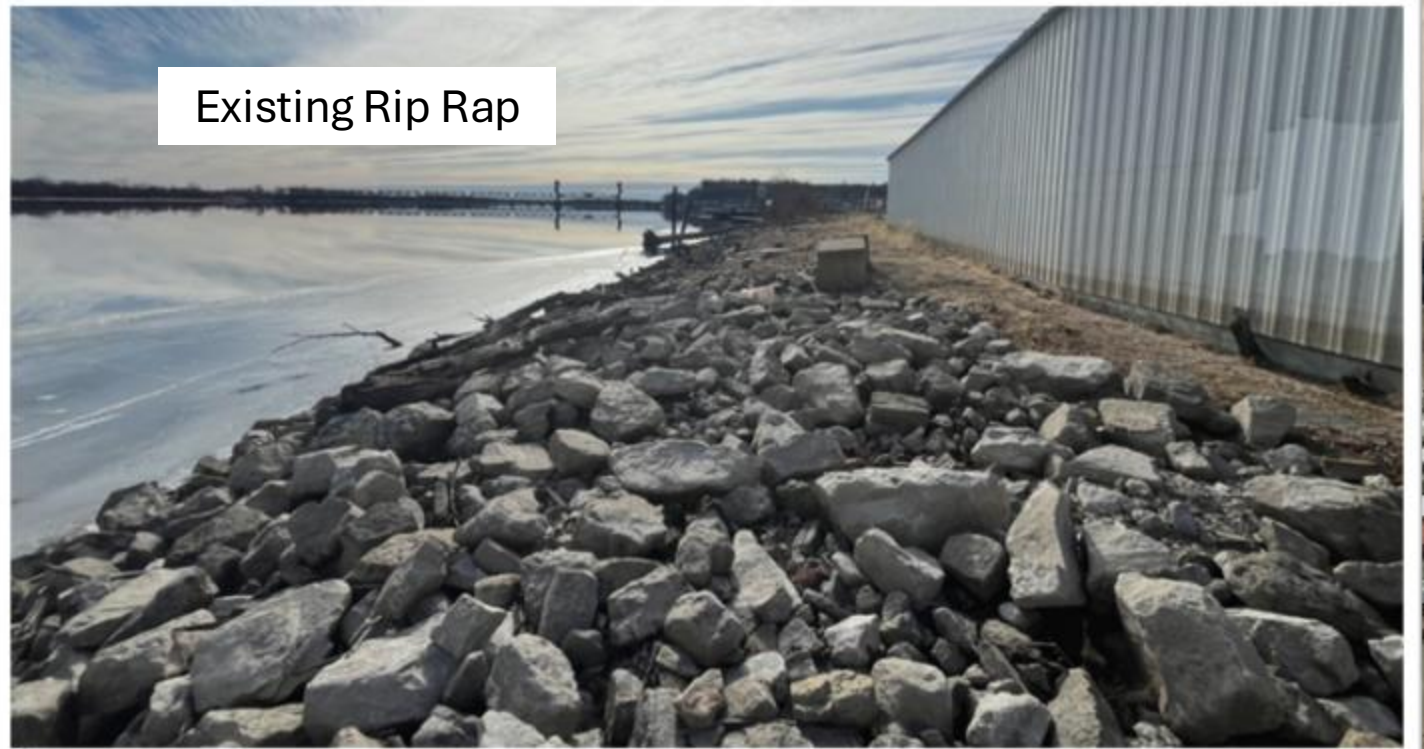


# Site Demolition and Cleanup

Rip Rap Erosion  
Control



Existing Rip Rap





# Existing Layout







# Proposed Layout







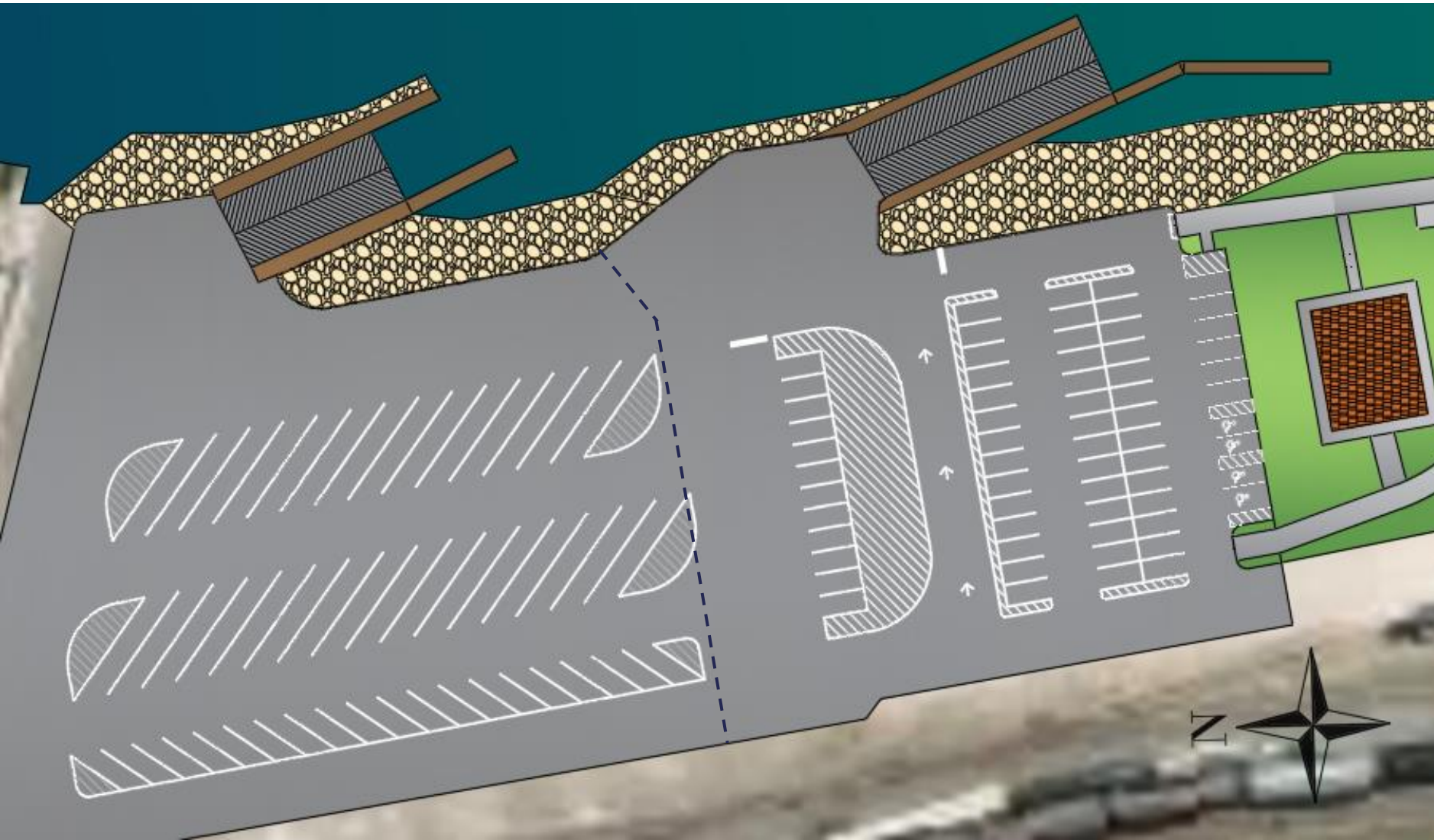
Expanded and  
Upgraded River  
Access

Riverfront Park



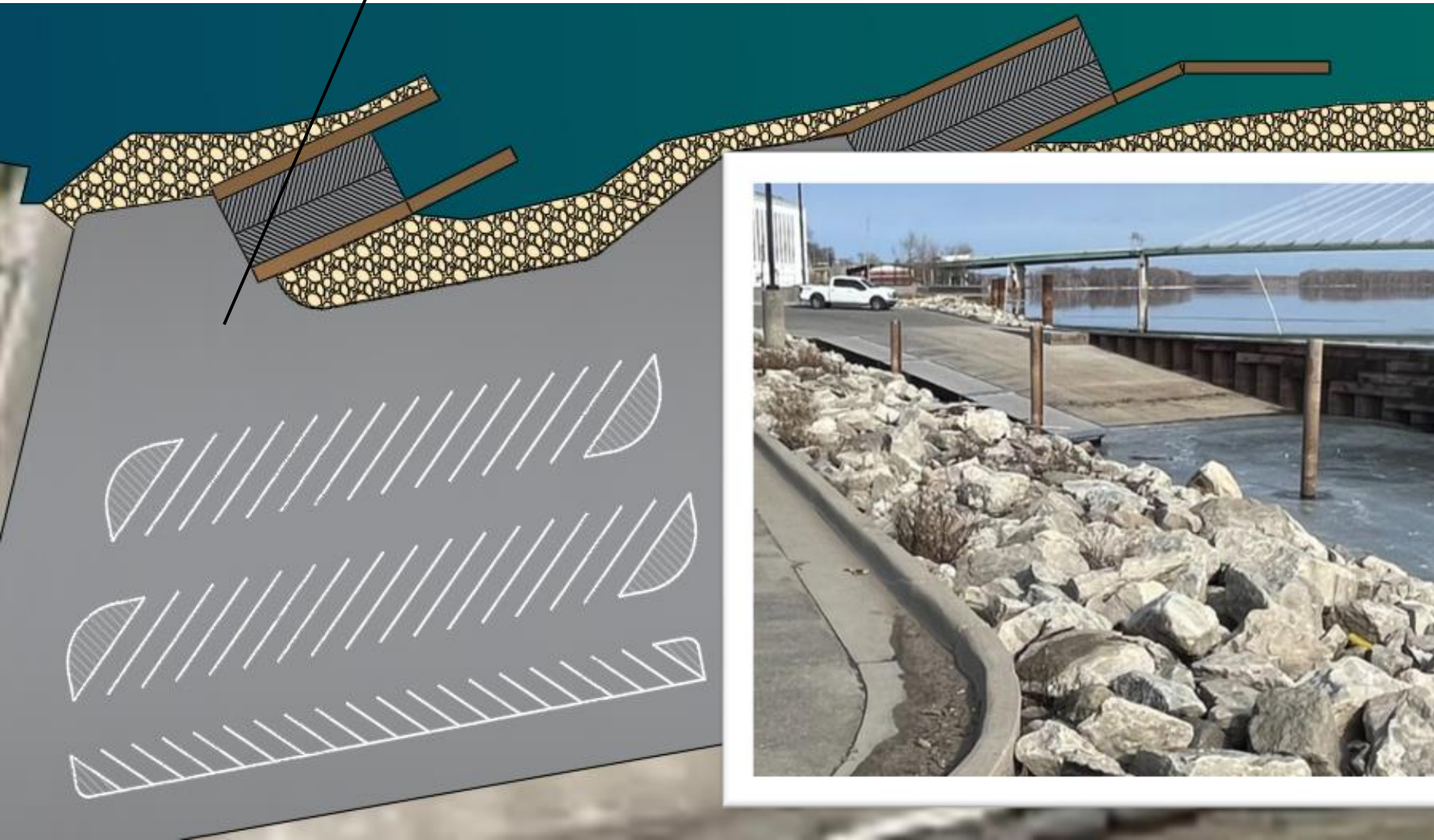


# Parking and River Access Facilities





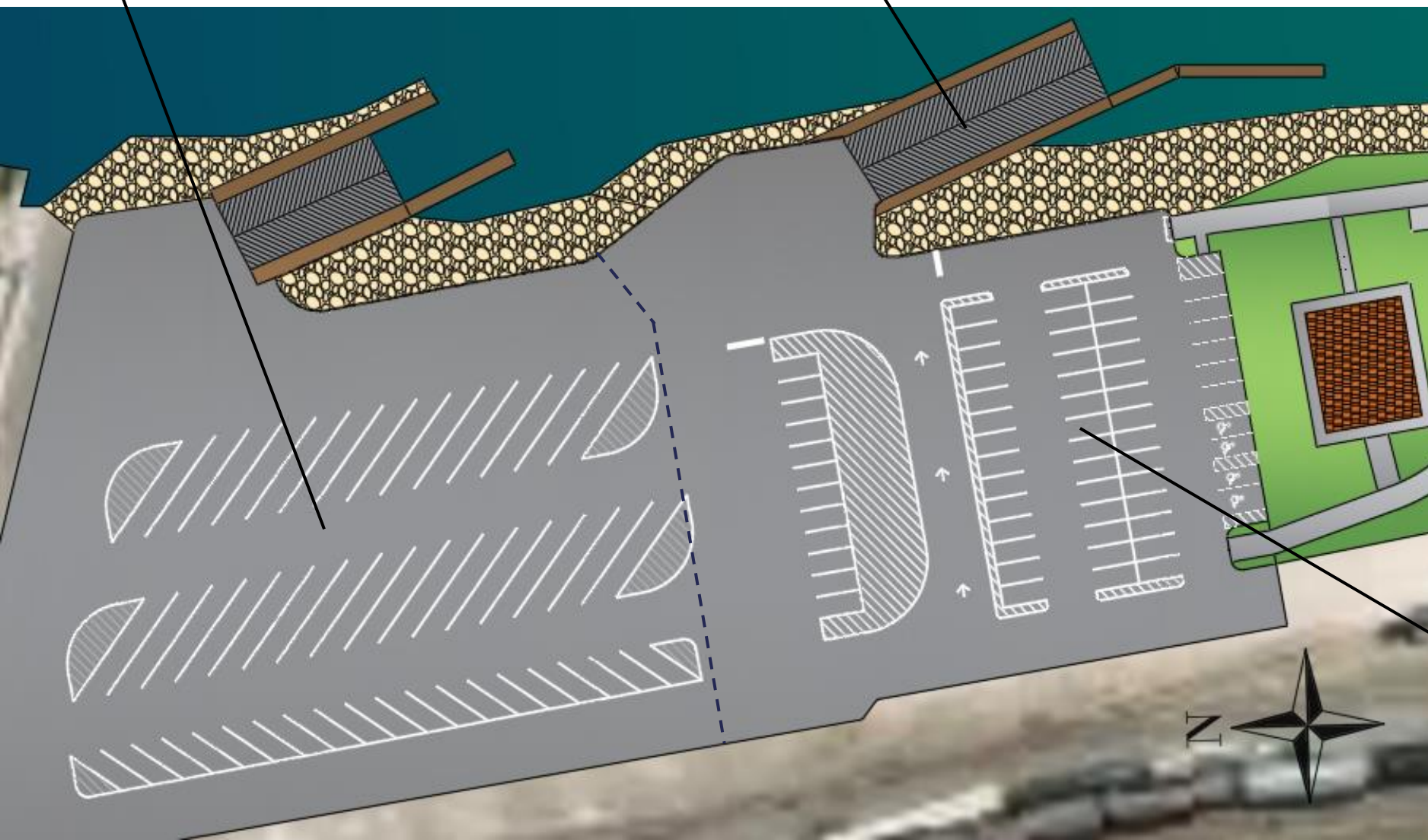
## Existing Boat Ramp and Parking Lot





Existing Parking Lot

New Boat Ramp



Parking Lot  
Extension

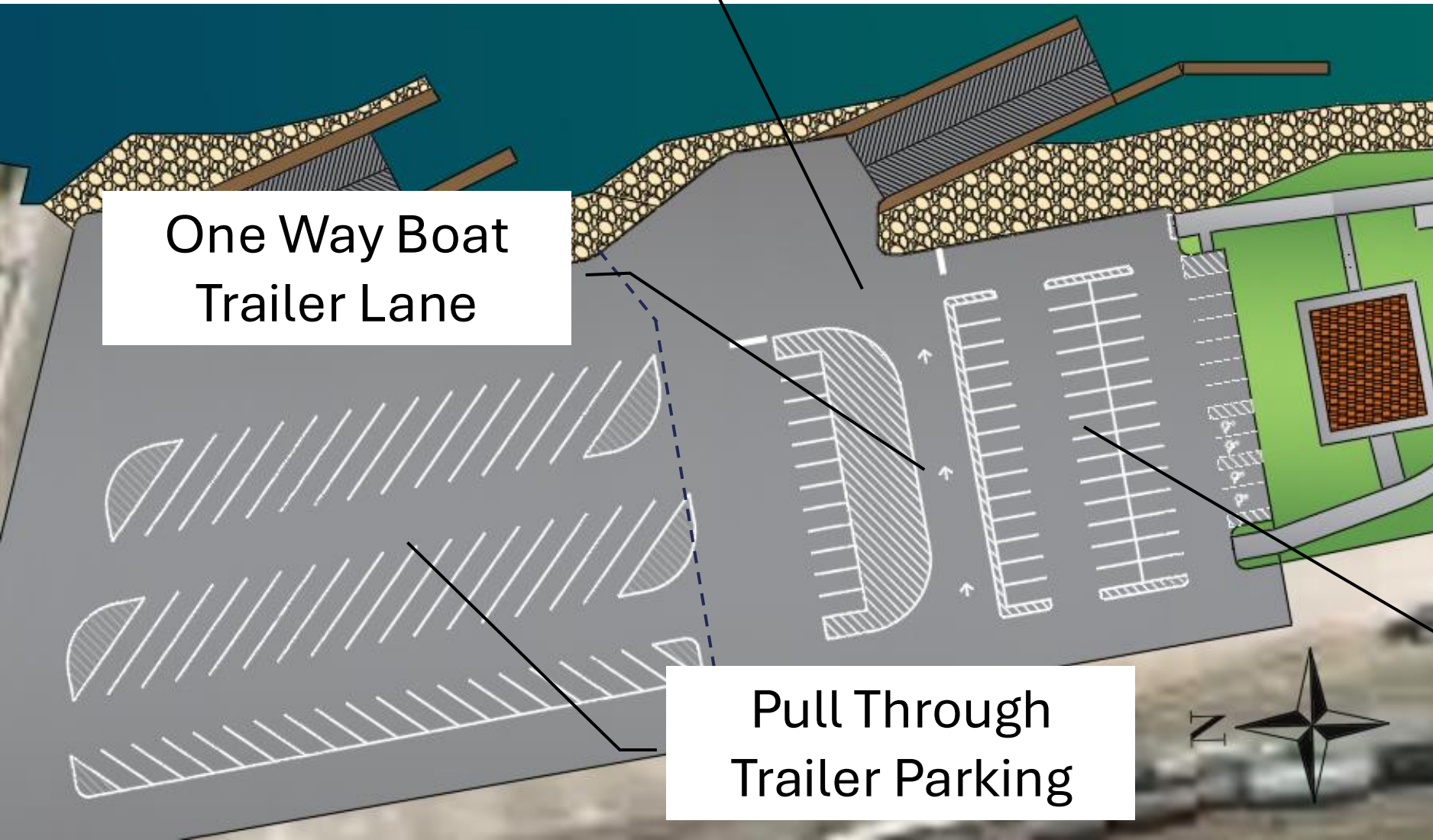


Traffic Control

One Way Boat  
Trailer Lane

Pull Through  
Trailer Parking

Single User  
Vehicle Parking





# Riverfront Park



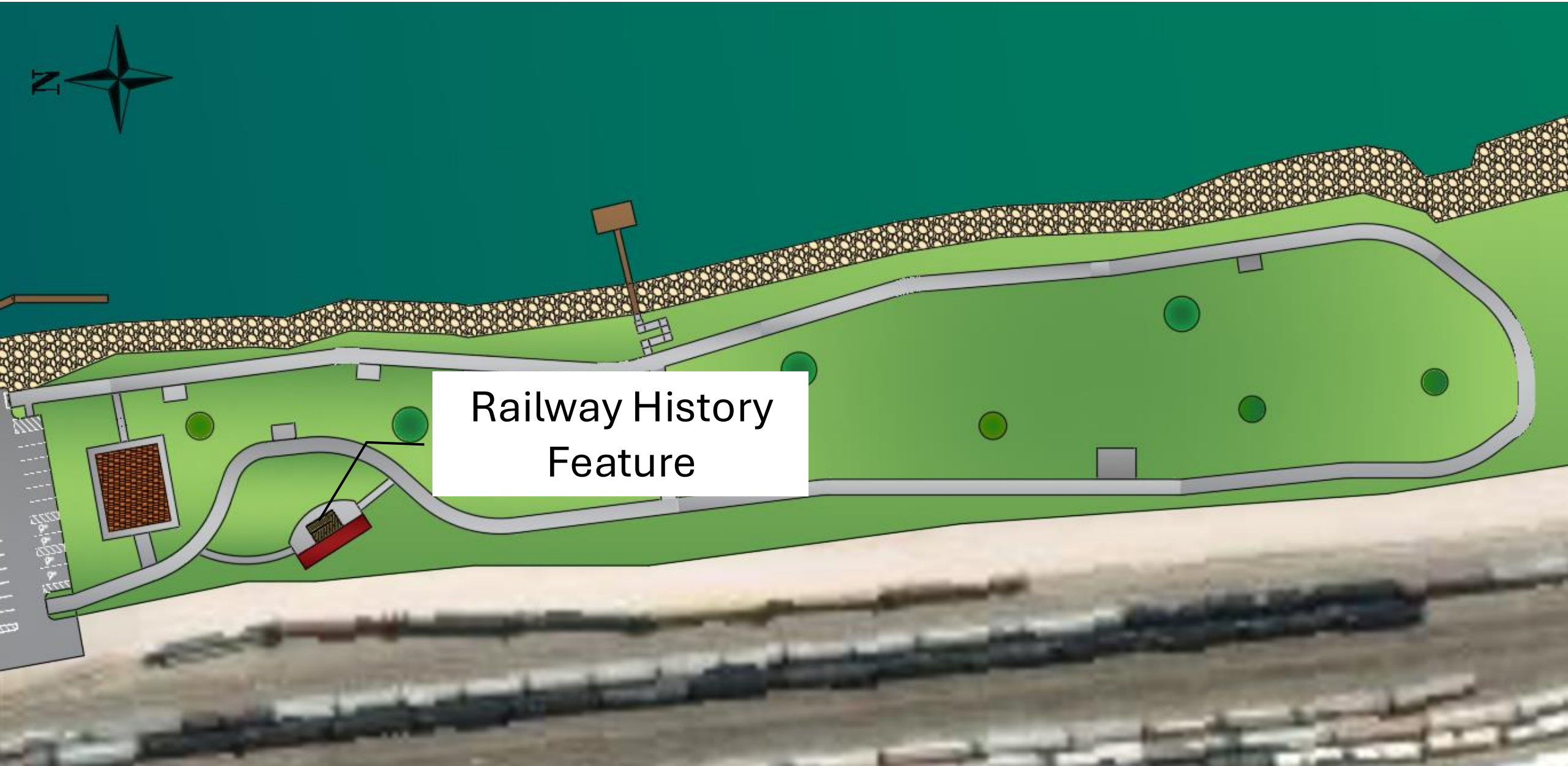


# Riverfront Park





# Riverfront Park





# Riverfront Park

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Railway History Feature

BNSF





# Riverfront Park





# Riverfront Park

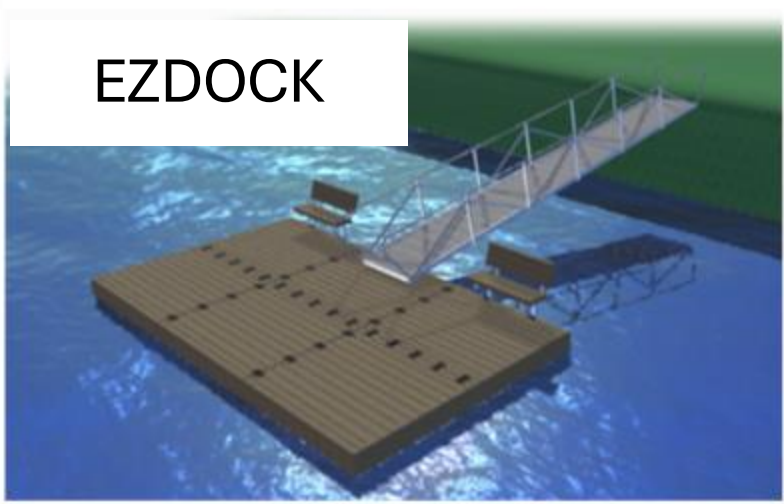


# Riverfront Park

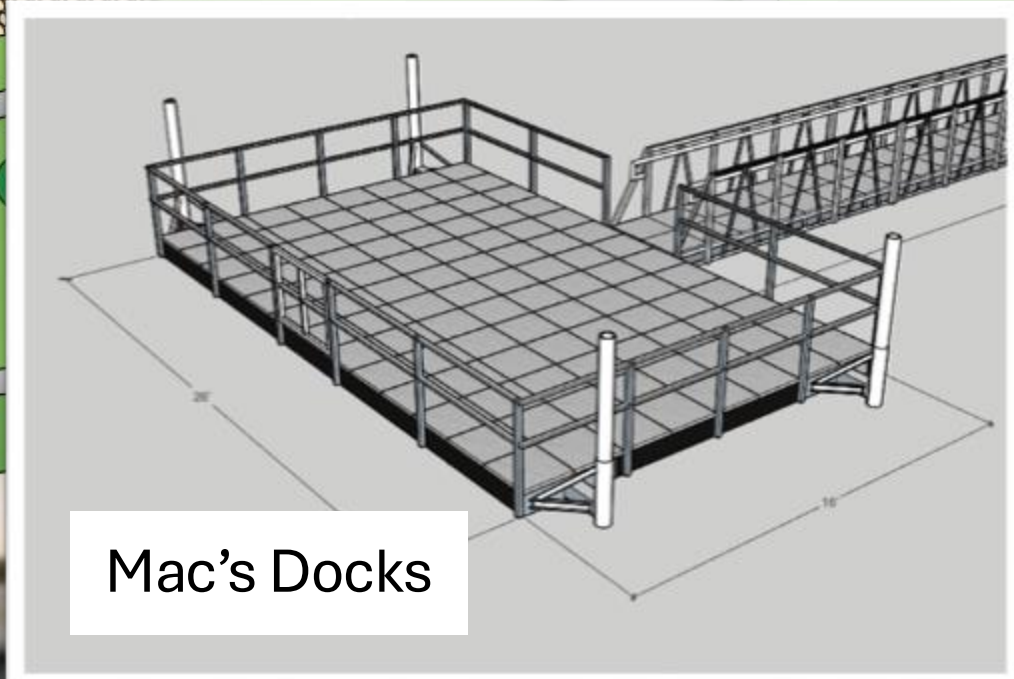


Fishing Dock

EZDOCK



Mac's Docks





# Riverfront Park

KillerDock Fish Cleaning Stations



# Riverfront Park



Park Shelter and  
Performance Structure



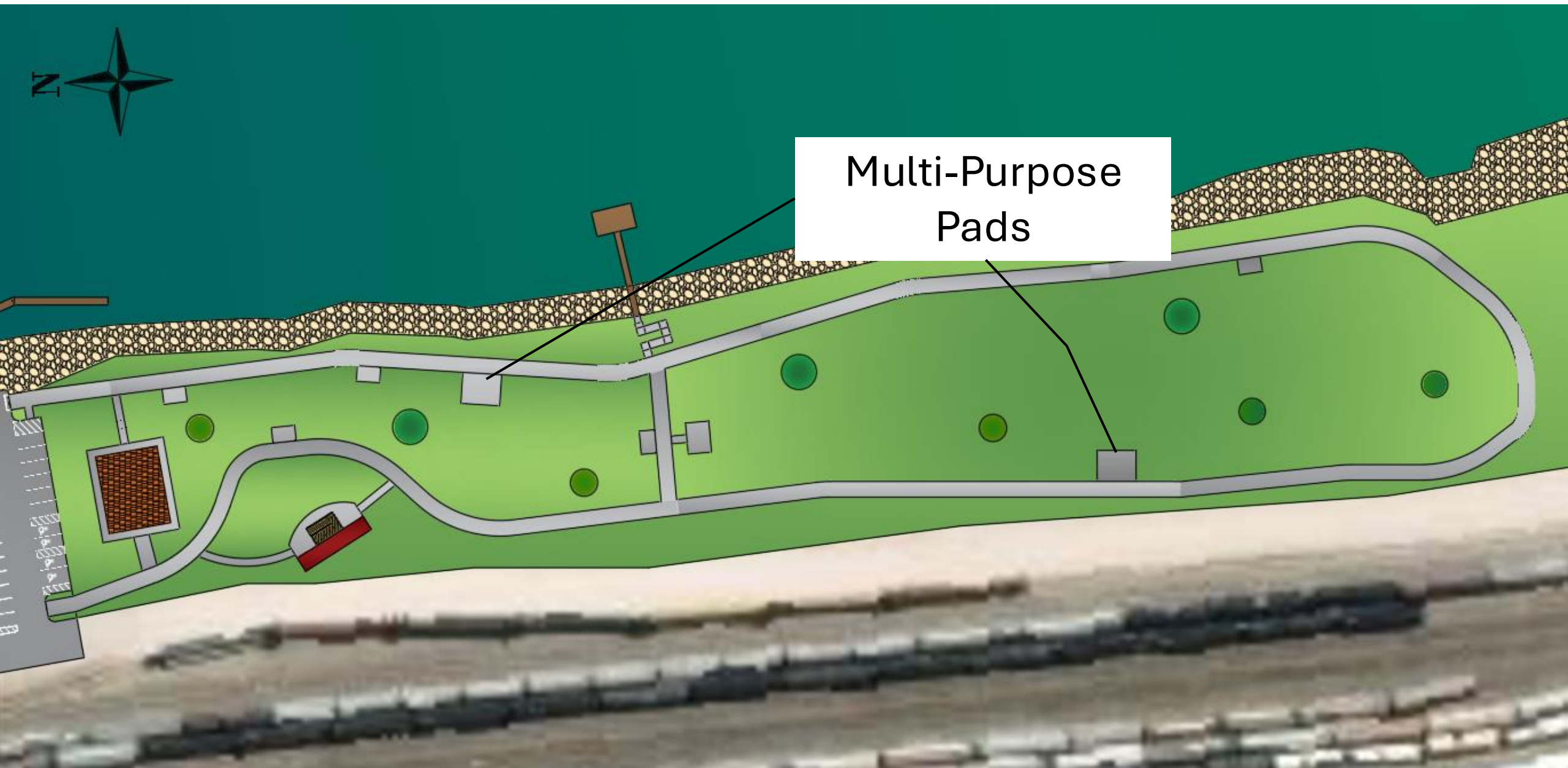
# Riverfront Park



Park Shelter and  
Performance Structure



# Riverfront Park



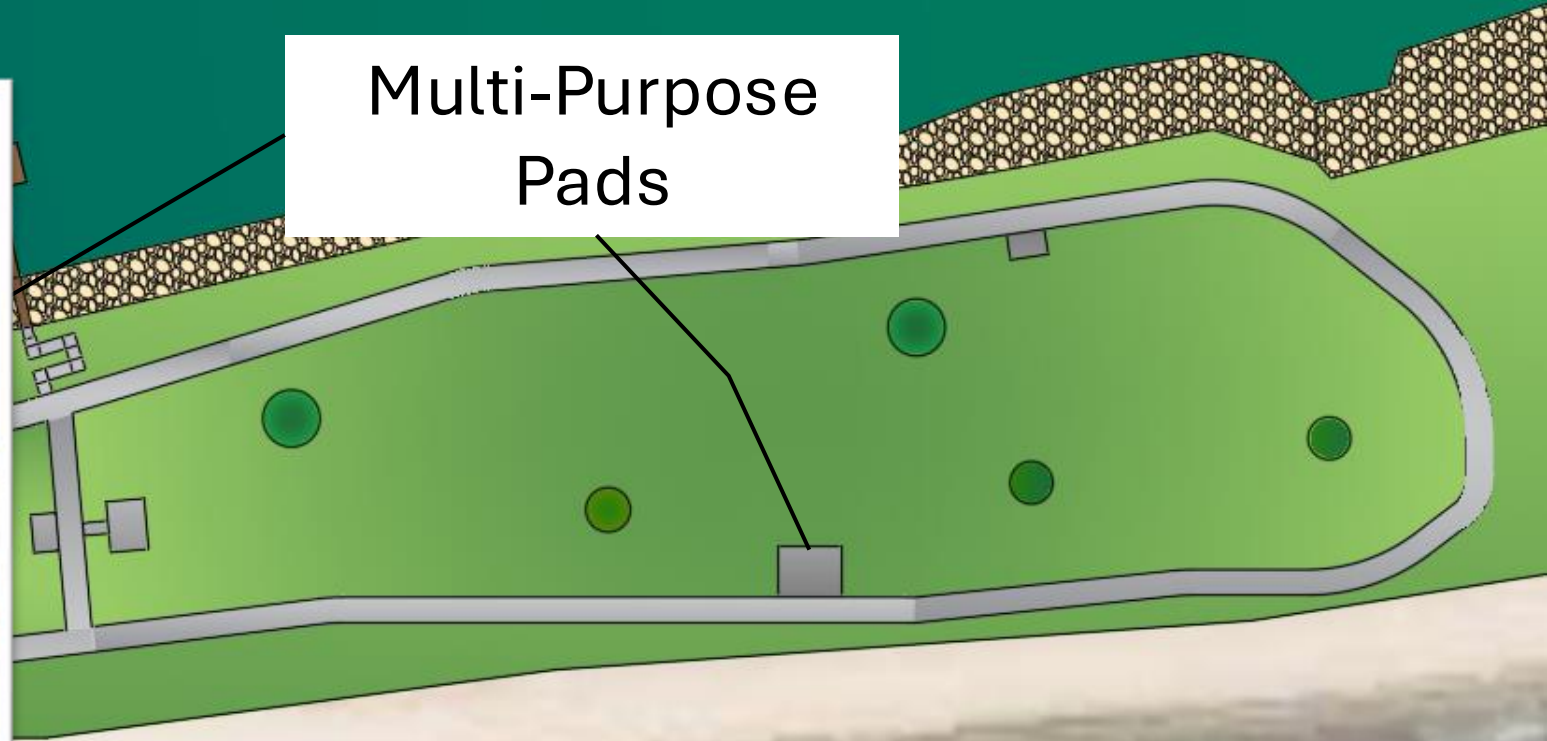


# Riverfront Park

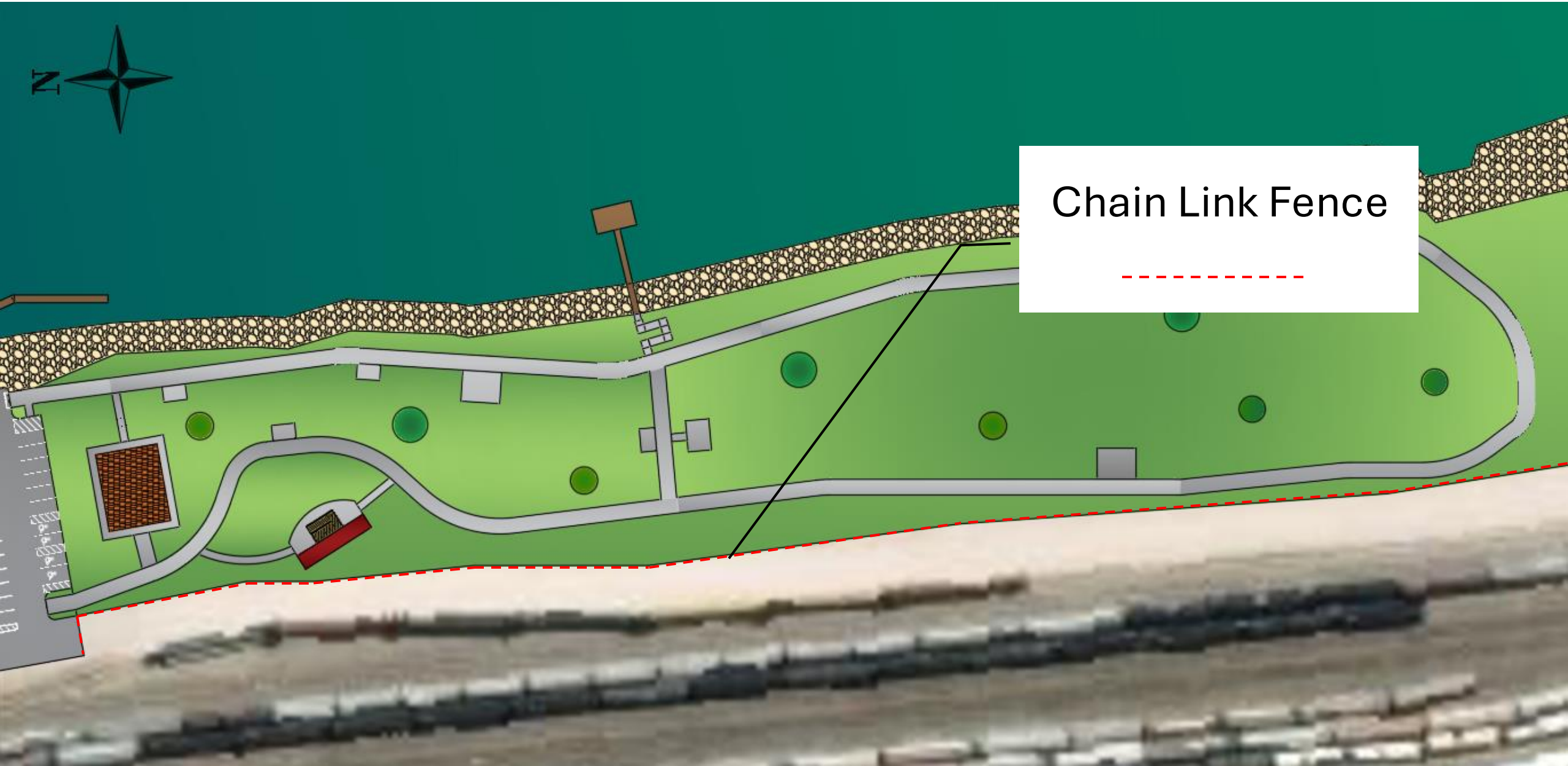


ROMTEC Prefabricated Structures

Multi-Purpose  
Pads

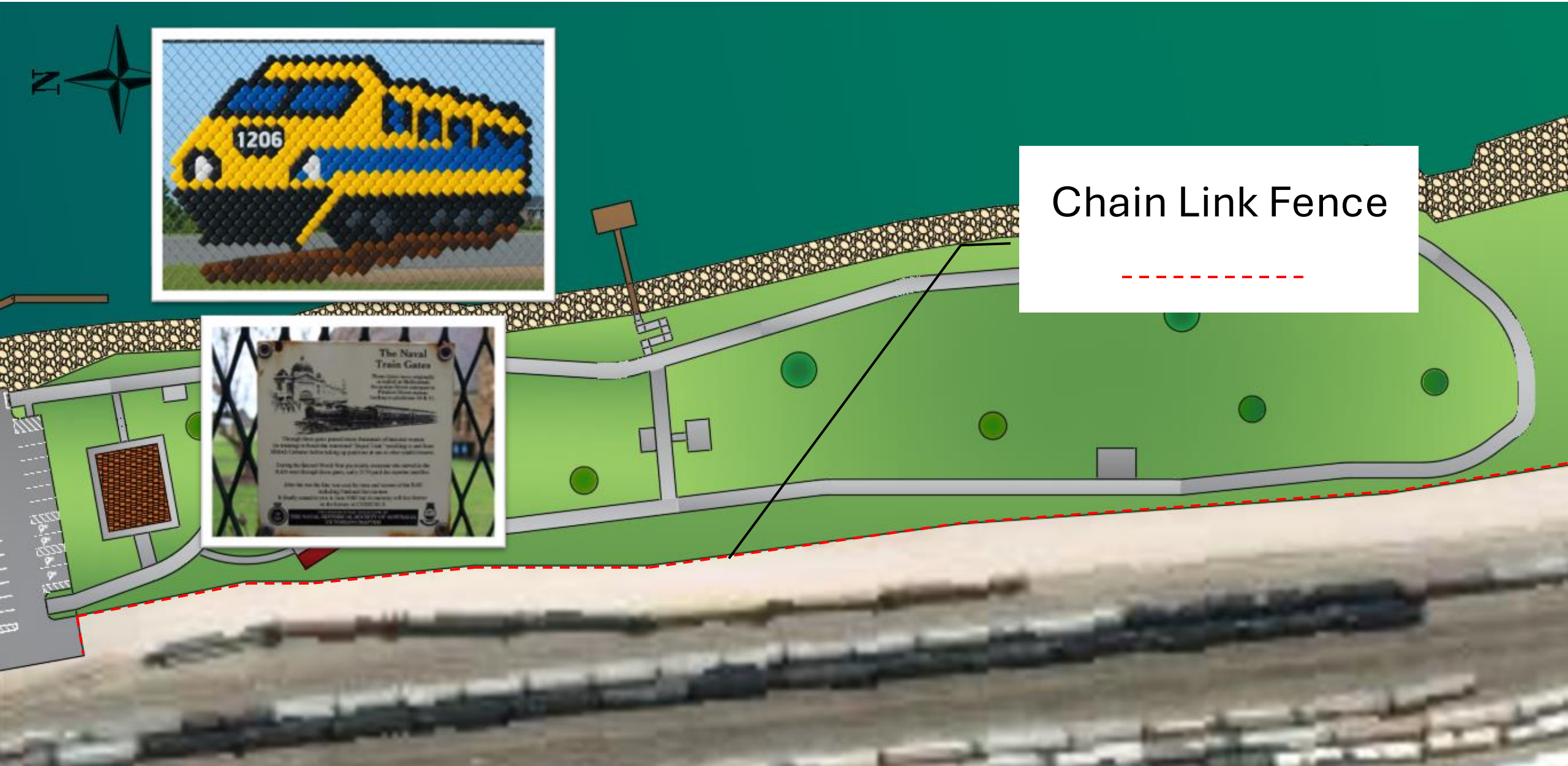


# Riverfront Park





# Riverfront Park



Chain Link Fence

# Riverfront Park



Tree Planting

Topsoil Import and  
Grass Planting





Existing Site  
Location

Expansion  
Possibilities

Design Flexibility to Expansion



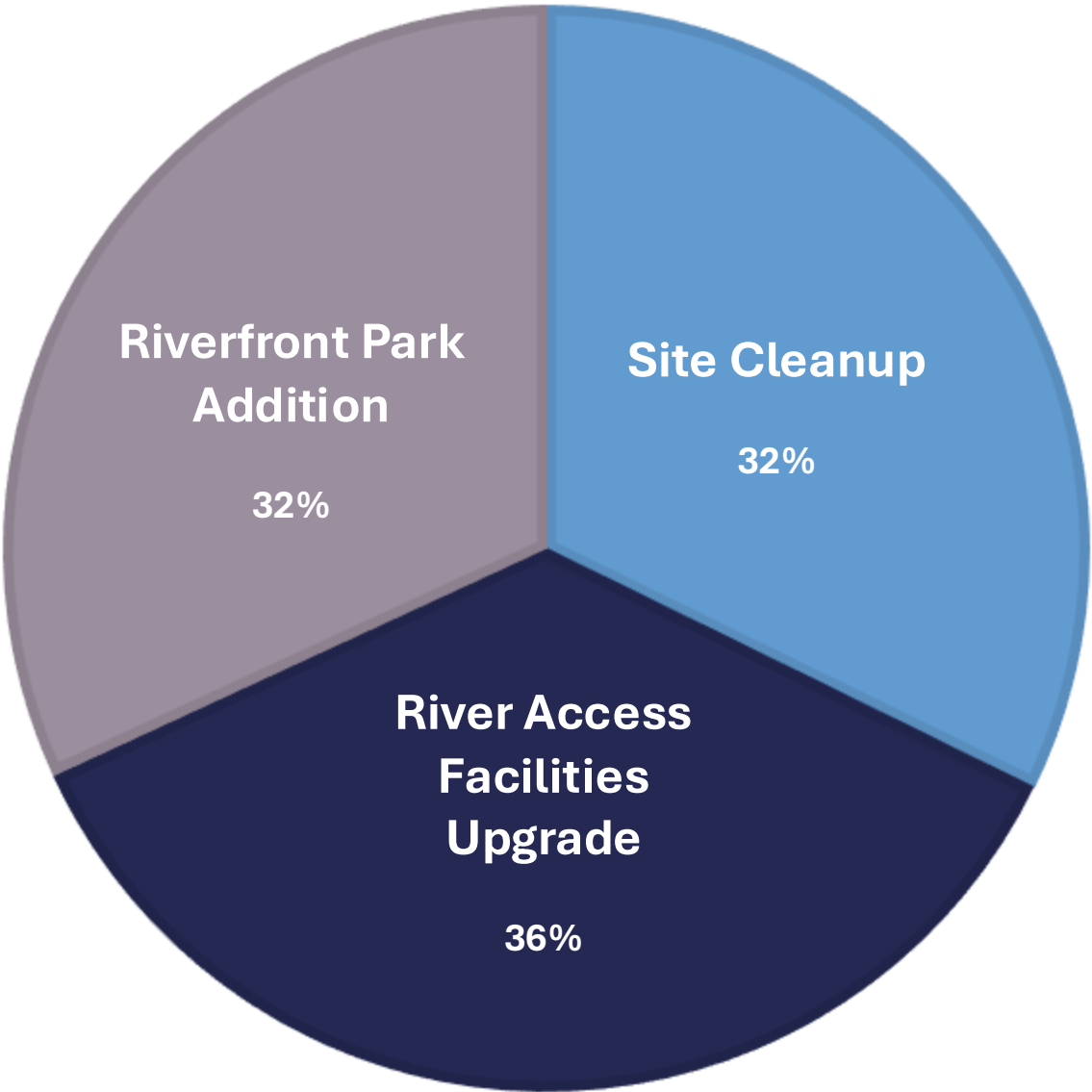


# Burlington South Riverfront Park Extension





**BURLINGTON RIVERFRONT PARK EXTENSION  
CONSTRUCTION COST ESTIMATE**



Estimated Construction Cost: ~\$1,690,000  
20% Contingency: ~\$338,000

**Estimated  
Construction Cost:  
~\$2,028,000**

# Riverfront Park

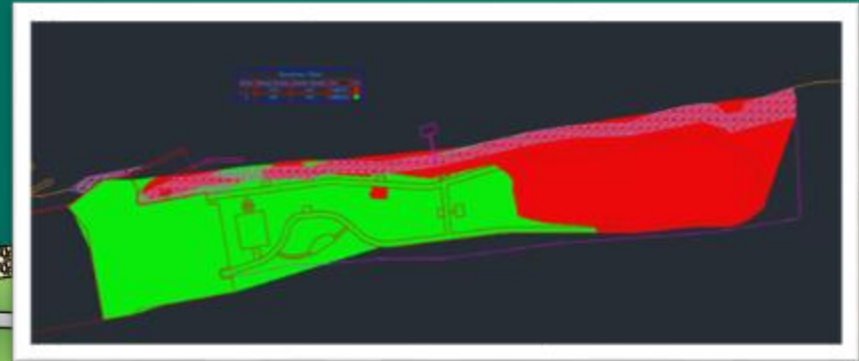
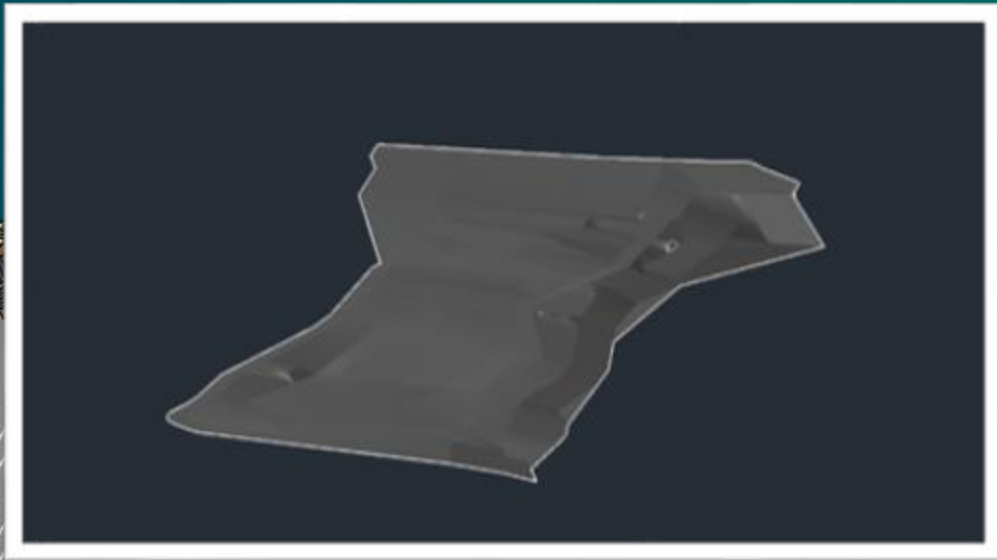




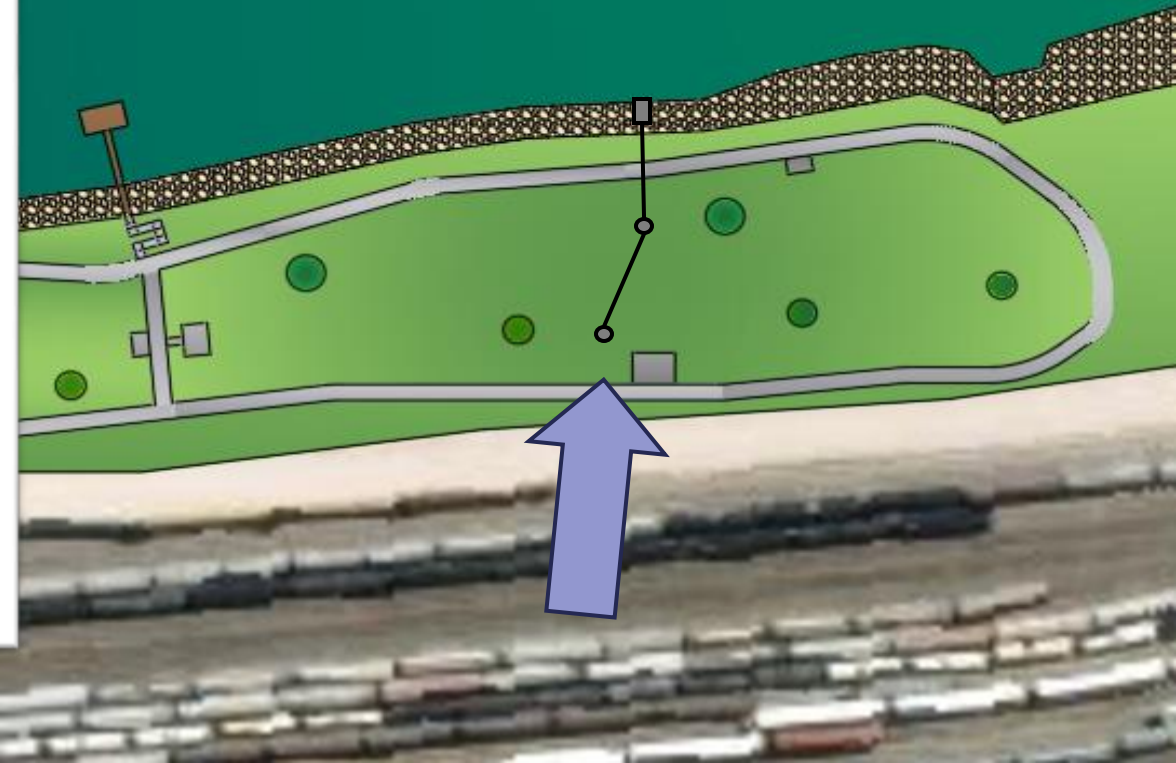
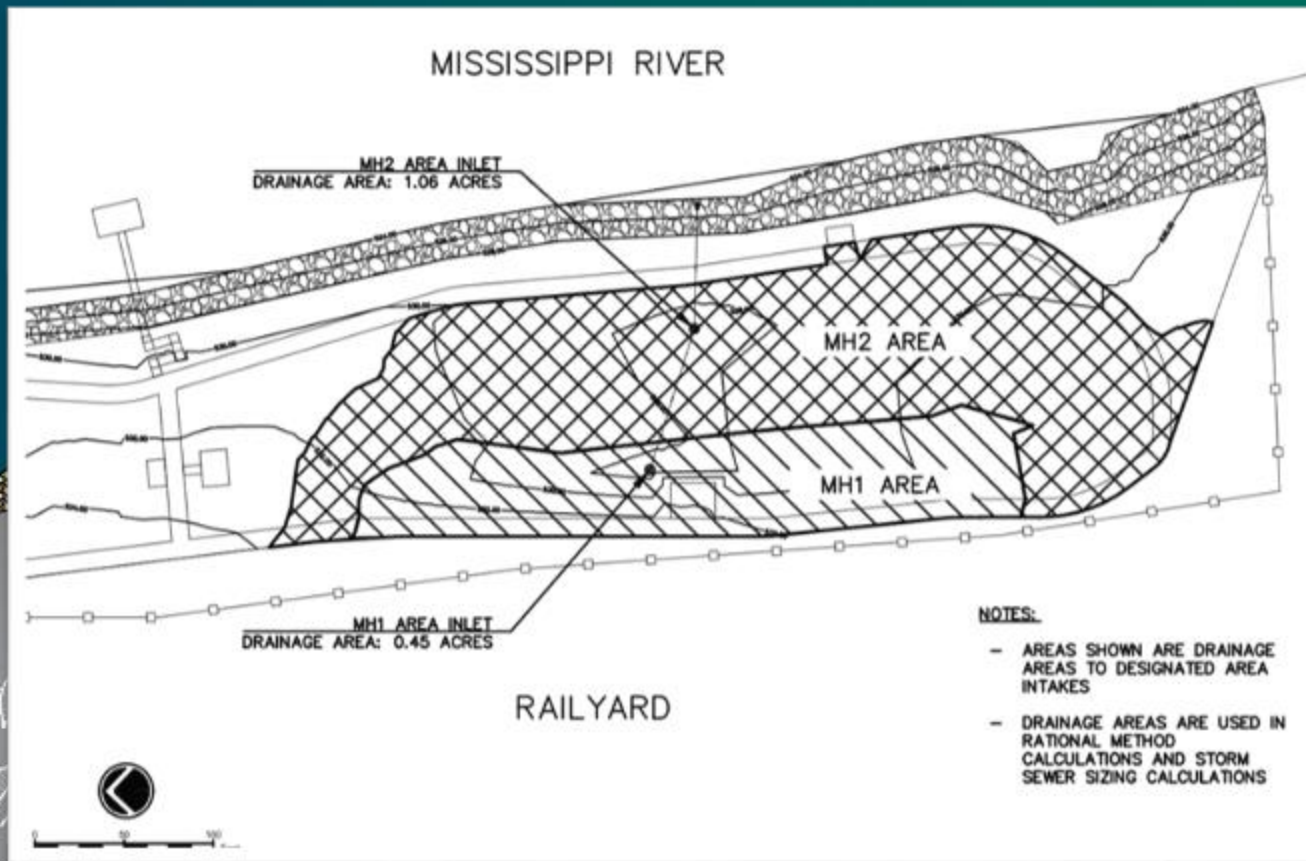
# Riverfront Park



## Site Drainage



# Riverfront Park





# Riverfront Park

## Site Drainage



# Constraints and Challenges

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Limited Area

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Flooding

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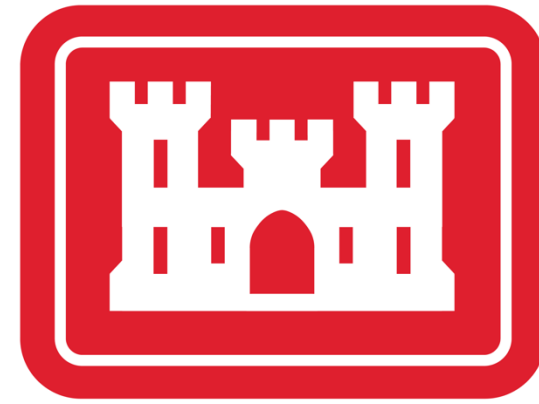
Railway Operations

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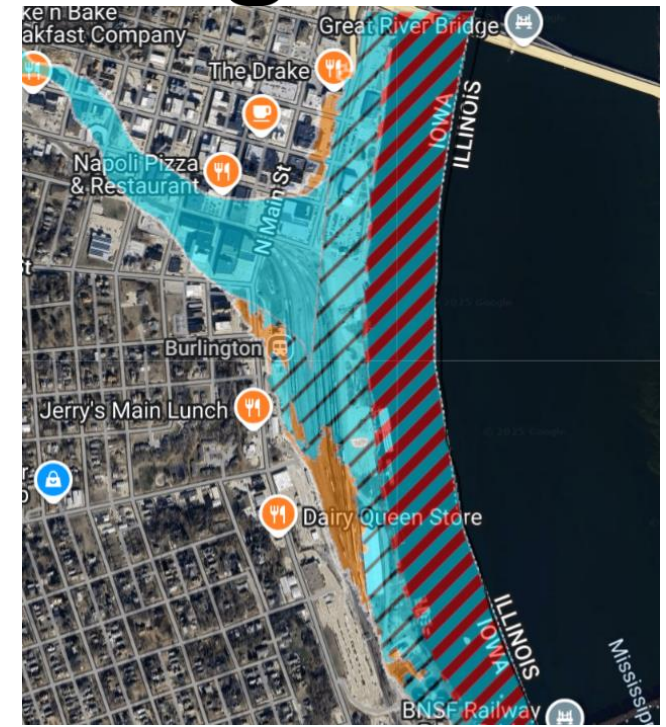
Regulations, Permits

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Environmental Concerns



**US Army Corps  
of Engineers®**







# Mississippi River

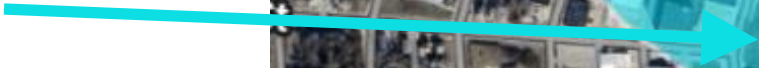
Front St.  
(Gravel Private Access Road)

BNSF Railyard

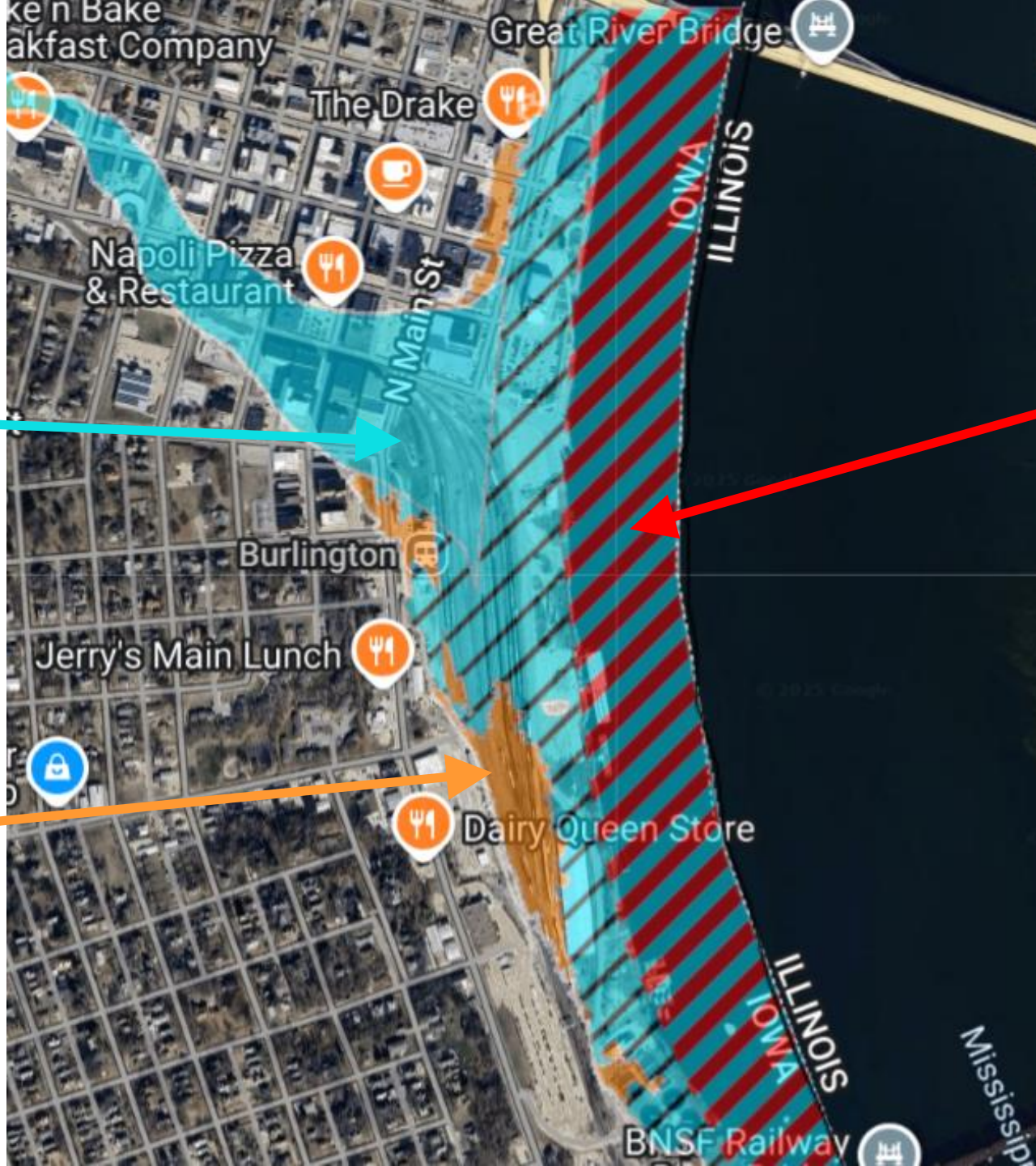
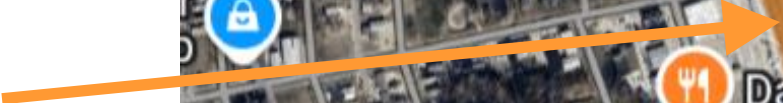


# Floodplain

100-yr  
floodplain



500-yr  
floodplain

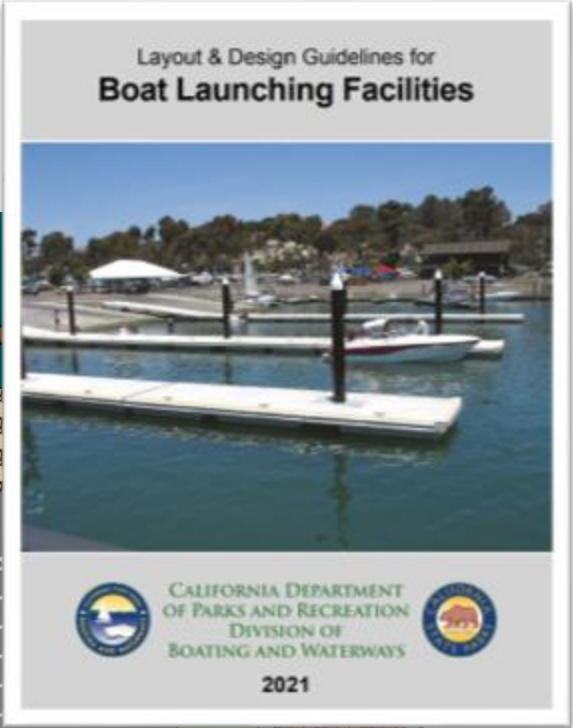


Floodway

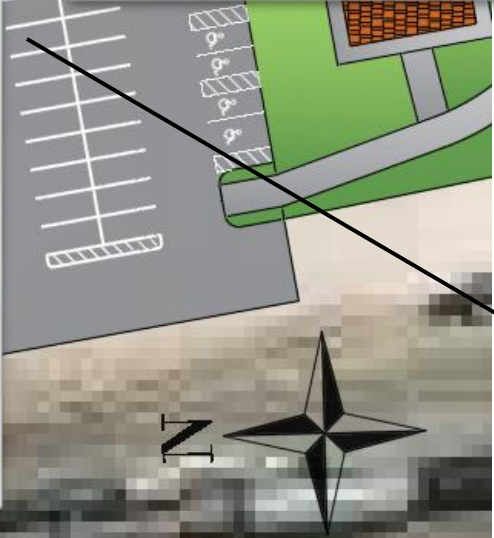




# New Boat Ramp

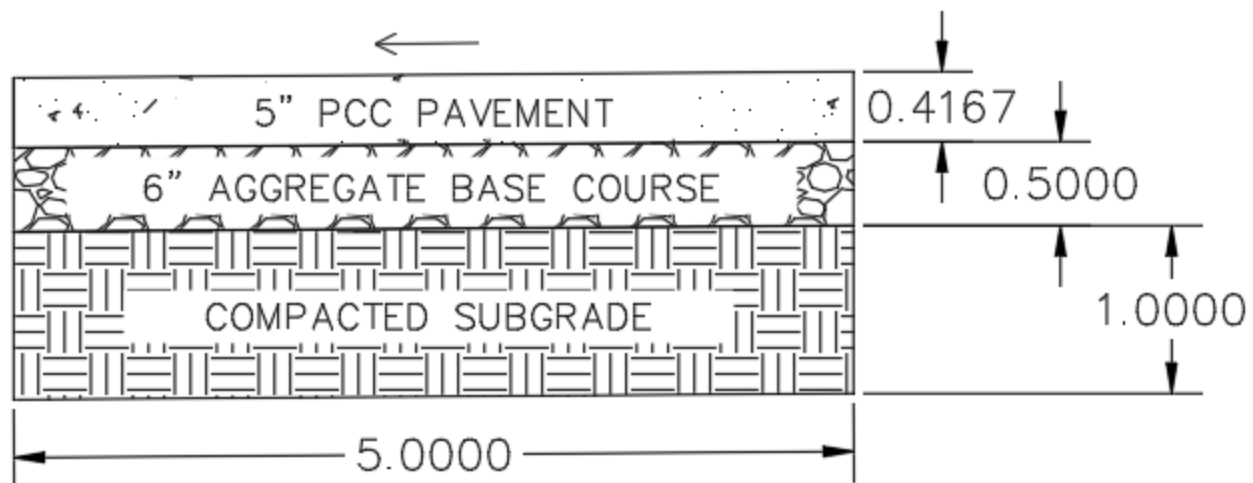
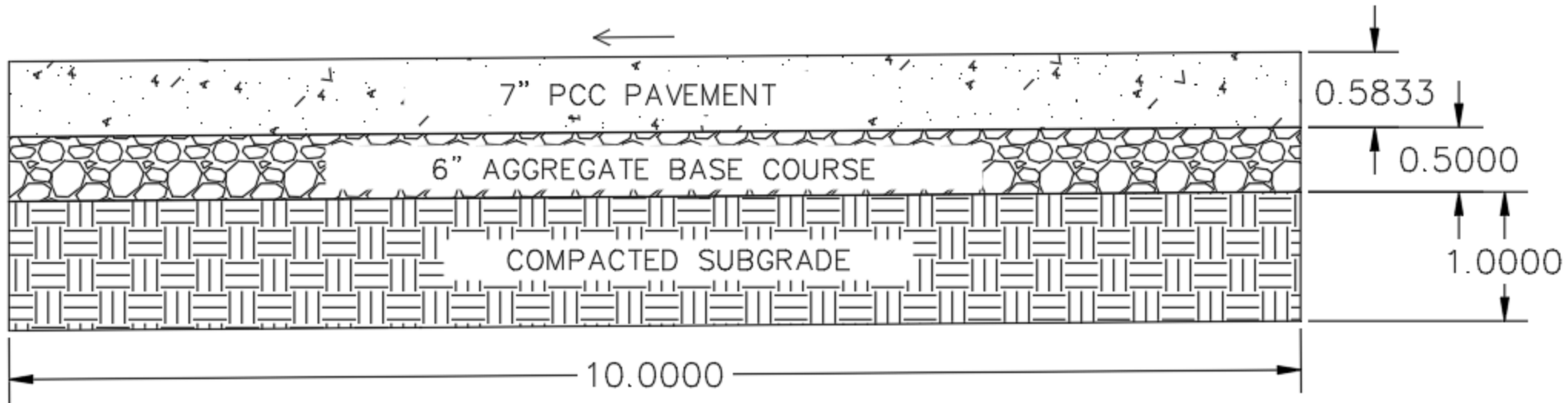


Pleasant Creek State Park Boat Ramp



Parking Lot Extension

# Park Trail and Sidewalks Design



Paths will be sloped  
-1.5% towards  
nearest drainage



# Riverfront Park



Riverfront Trail  
Loop



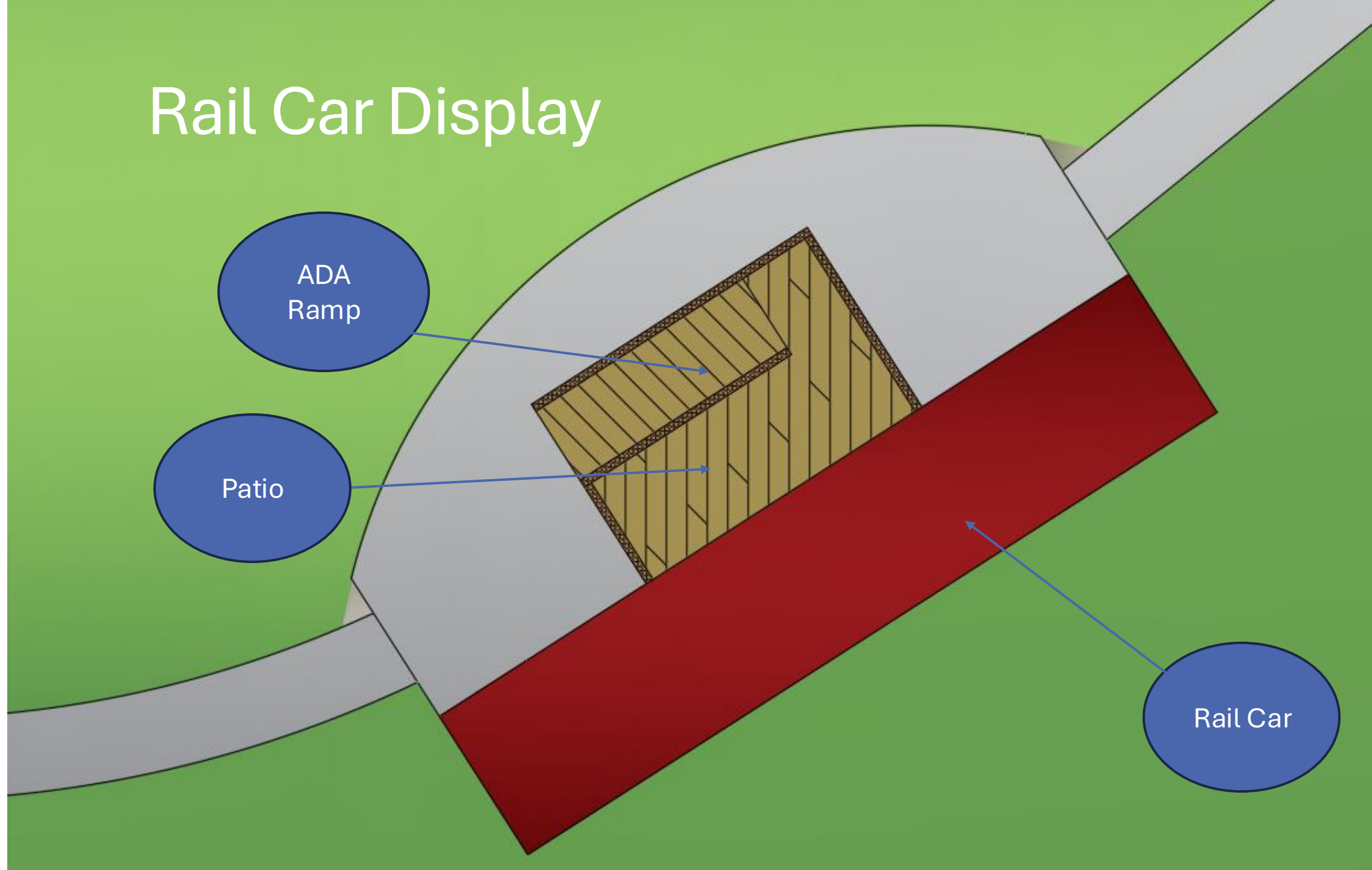


# Rail Car Display Option 1





# Rail Car Display







Rail Car Display Option 2





Rail Car Display Option 3



# Proposed Trees



Bur Oak



Silver Maple



Bald Cypress



# Scope of Work

- Engage stakeholders
- Propose alternatives
- Implement safety measures for BNSF railyard
- Develop detailed design of the client's preferred alternatives
- Create detailed cost estimate





# Thank You!

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