

# Great Lakes Restoration Initiative

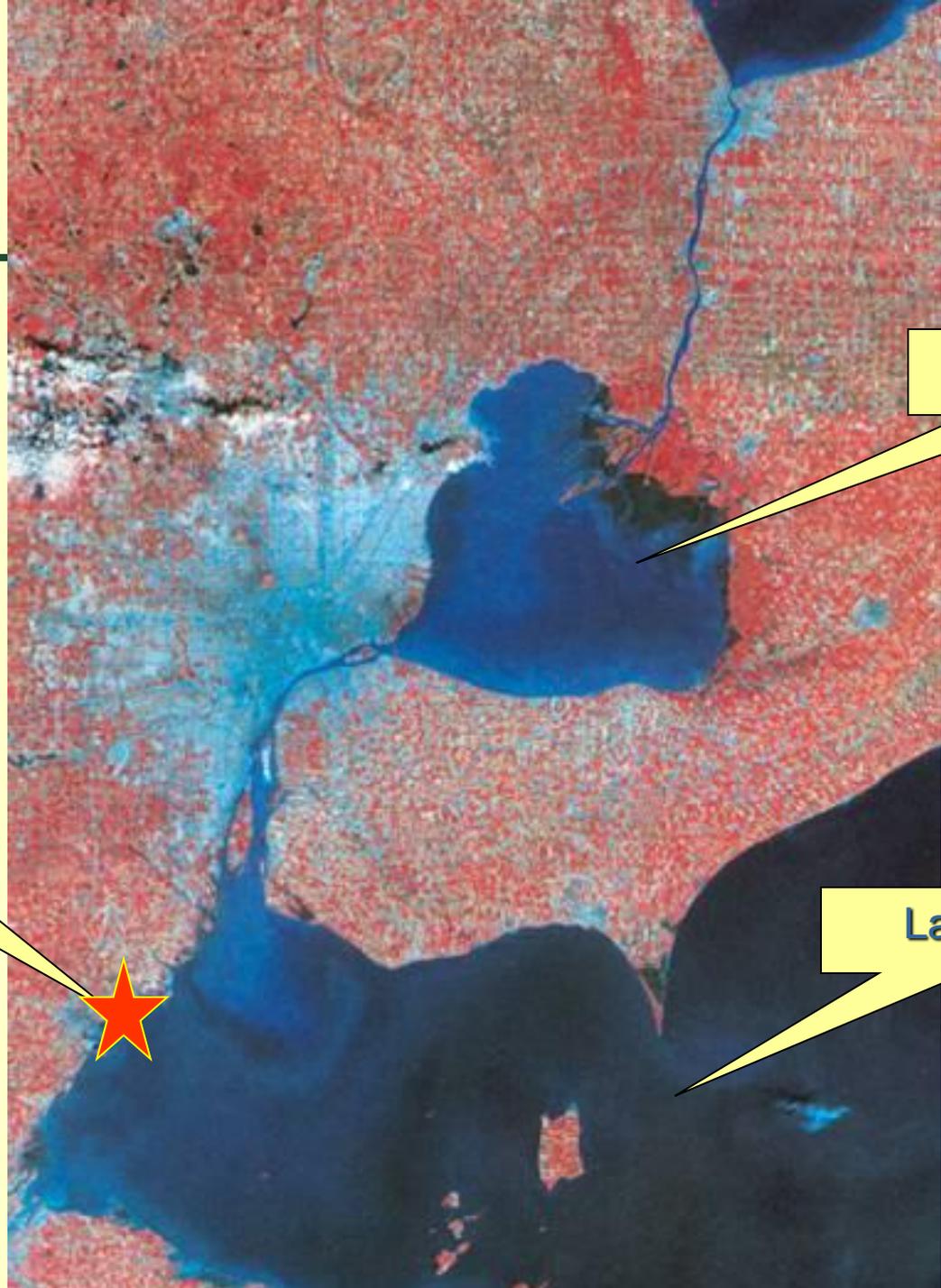
Wm. C. Sterling State Park

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City of Monroe  
Commission on the Environment  
June 14, 2012

Glenn Palmgren, Ecologist  
DNR - Parks & Recreation Division

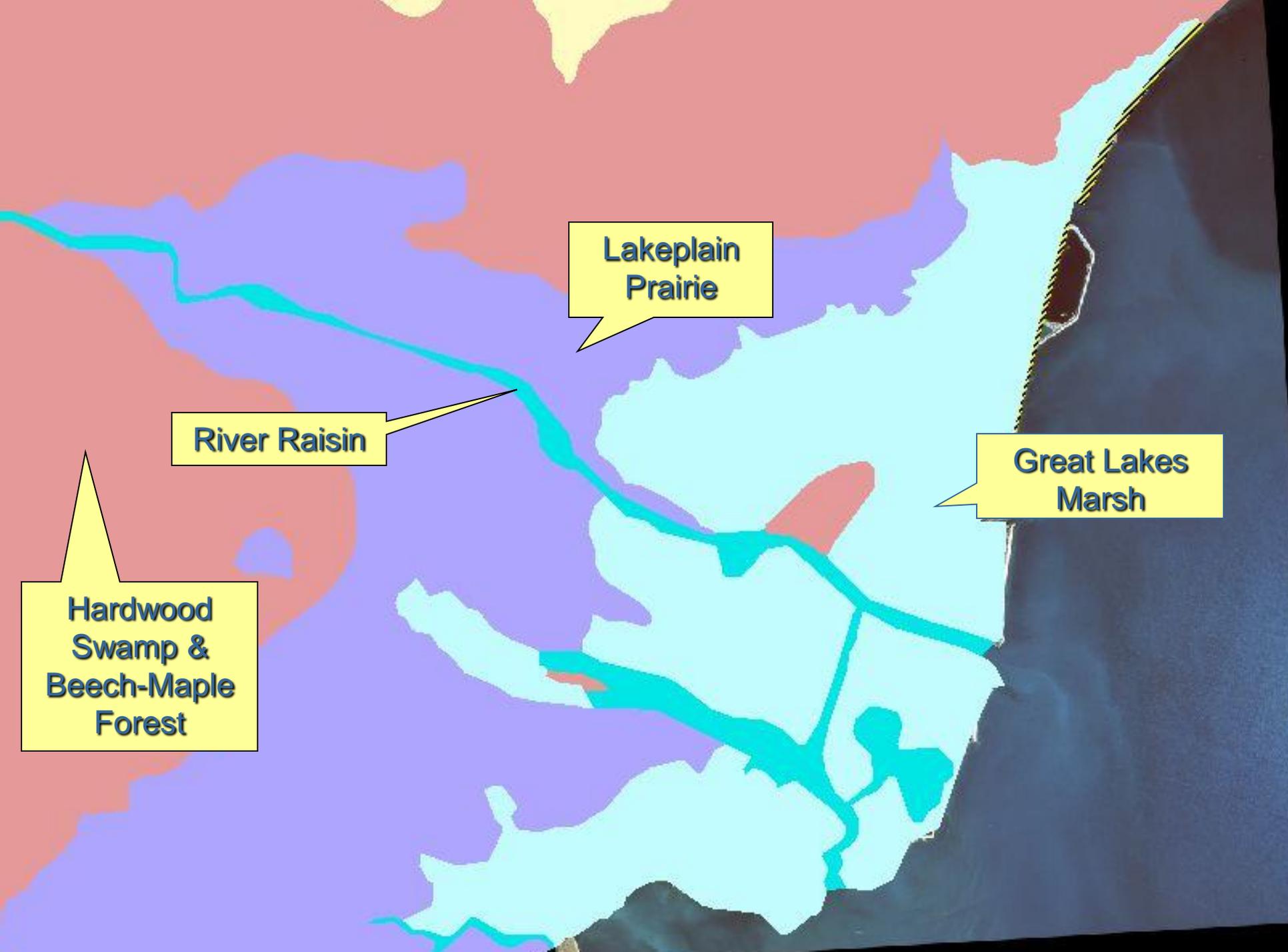


Lake St. Clair

Sterling State  
Park

Lake Erie





Lakeplain  
Prairie

River Raisin

Hardwood  
Swamp &  
Beech-Maple  
Forest

Great Lakes  
Marsh



1. Jackson Park  
 2. Park  
 3. Belmont Park

4. W. Ave.  
 5. W. Park  
 6. W. Ave.

**MILWAUKEE**

WISCONSIN

1891

7. Protestant Church  
 8. Methodist Church  
 9. First School

10. Long Lake Avenue  
 11. Lincoln  
 12. 1st  
 13. 2nd Street

# Great Lakes Restoration Initiative Grants

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United States Environmental Protection Agency

- River Raisin Area of Concern
  - In 1987 a portion of the River Raisin was designated as a “Great Lakes Area of Concern” as a result of legacy chemical contamination and loss of fish and wildlife habitat due to urban and industrial land use practices
- Restoration at William C. Sterling State Park and the North River Raisin Delta Wetlands
  - Projects will contribute significantly to the delisting of the River Raisin Area of Concern



# Lakeplain Prairie



# Great Lakes Marsh





# American Lotus





# Swamp Rose Mallow





Arrowhead





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## Trailing Wild Bean



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King Rail





# Eastern Fox Snake





Bald Eagle



# Osprey





# Common Moorhen





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# Marsh Wren





Pugnose  
Minnow





Dixie Hwy

Park Headquarters

Lakeplain Prairie Restoration Area

I-75

Amy Corps CDF

Marsh / Shallow Water

Day Use Area & Beach

Marsh / Shallow Water

Lagoon (connected to Lake Erie)

Campground

Lake Erie

River Raisin



# The GLRI Projects Will:

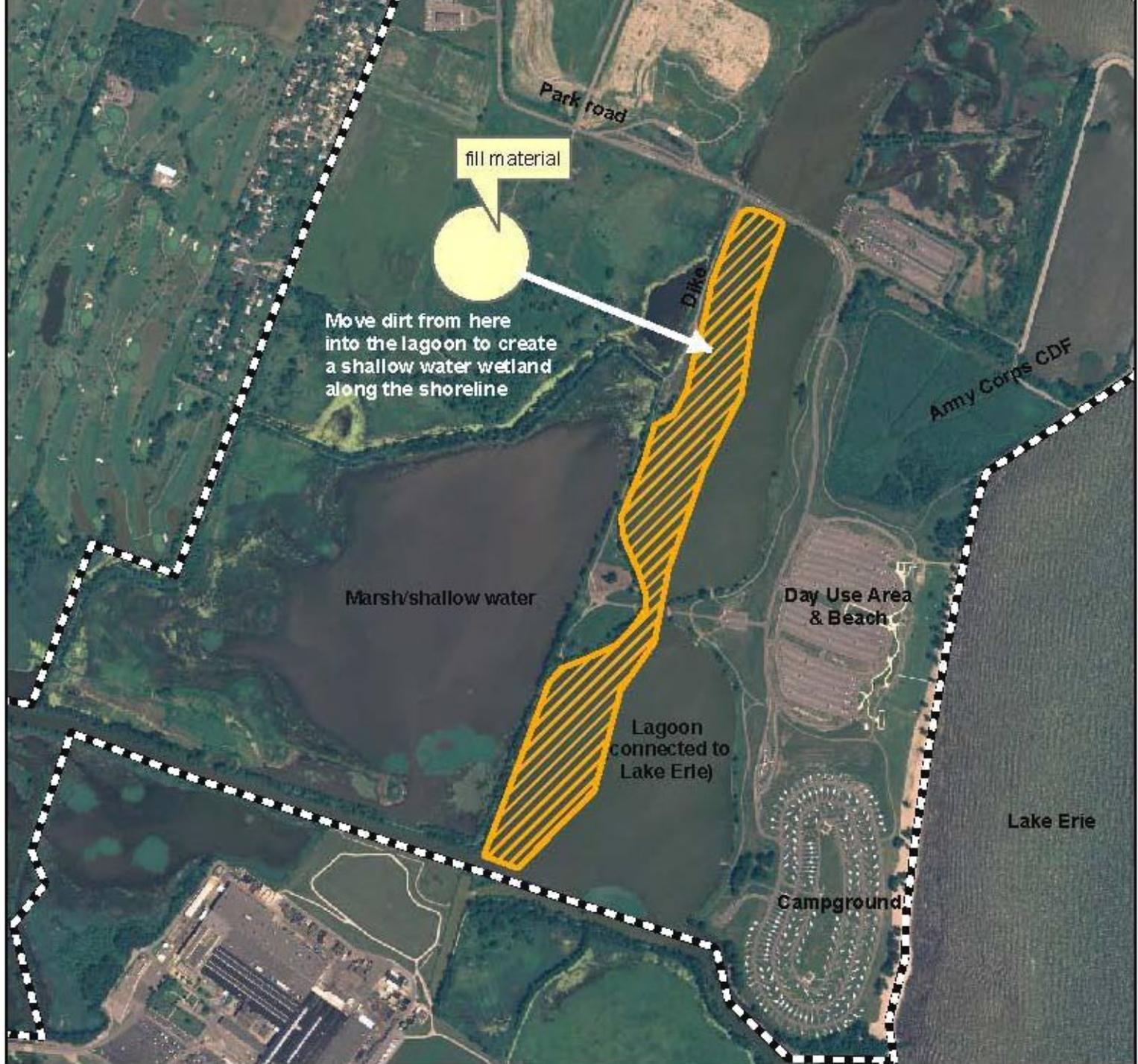
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- Restore 18 acres of emergent and submergent Great Lakes marsh and 25+ acres of lakeplain prairie at William C. Sterling State Park
- Repair dikes and install water control for 310 acres of marsh at William C. Sterling State Park to provide much needed stopover habitat for shorebirds and to facilitate invasive plant control
- Control invasive phragmites (*Phragmites australis*) in north River Raisin delta wetlands on approximately 1,100 acres of public and private land for 3-5 years
- Collect baseline data and monitor wetland communities and key species in the north River Raisin delta wetlands



A large, rounded mound of dry, brown mulch or straw, likely made from wood chips or straw, dominates the center of the image. The mound is covered in a thick layer of this material, which appears to be a mix of light brown and dark brown fibers. The background shows a clear blue sky with some light, wispy clouds. A yellow callout box with a black border and a pointer pointing to the top of the mound contains the text "186,000 cubic yard mound".

**186,000 cubic yard mound**



Park road

fill material

Move dirt from here into the lagoon to create a shallow water wetland along the shoreline

Dike

Amy Corps CDF

Marsh/shallow water

Day Use Area & Beach

Lagoon connected to Lake Erie)

Campground

Lake Erie



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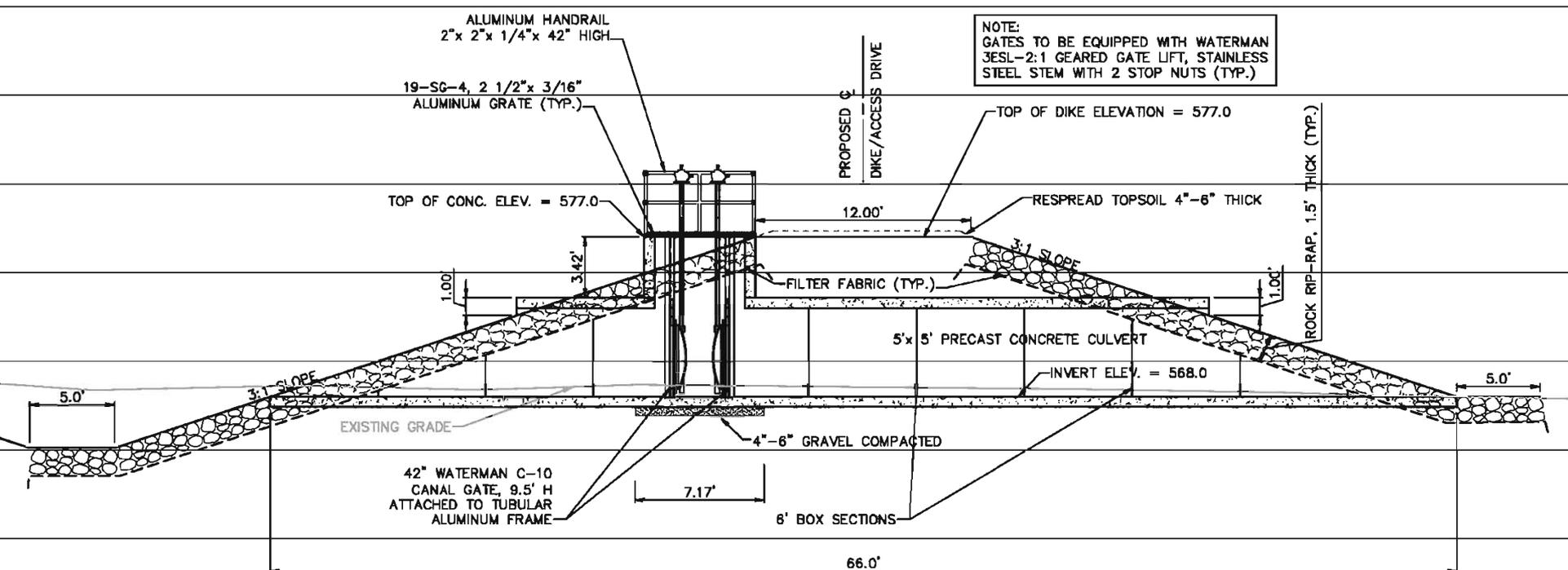


**Hunt Club  
Marsh**

**Union Camp  
Marsh**







NOTE:  
 GATES TO BE EQUIPPED WITH WATERMAN  
 JESL-2:1 GEARED GATE LIFT, STAINLESS  
 STEEL STEM WITH 2 STOP NUTS (TYP.)

SECTION B-B



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# Phragmites – *Phragmites australis*







MDOT (I-75 Corridor)

River Raisin Golf Course

Detroit Beach Boat Club

International Transmission Company

City of Monroe

Norfolk Southern Railroad

Homrich, Inc.

**Sterling State Park  
(Michigan DNRE)**

US Army Corps of Engineers (CDF)

Raisin River Campground & Marina

Ford Raisin River Warehouse

Ford Marsh

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## River Raisin Wetland Mapping IFMAP

### Legend

#### Wetlands

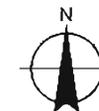
#### IFMAP Level 4

- Alder/Willow
- Cattail
- Cottonwood
- Floating Aquatic
- Lowland Ash
- Lowland Maple
- Mixed Emergent Wetland
- Mixed Lowland Decaduous Forest
- Mixed Lowland Shrub
- Mud Flats
- Phragmites
- Shrub-carr
- Water
- Wet Meadow
- Wet Meadow

Figure 2.  
Michigan Department of Natural  
Resources Integrated Forest  
Monitoring, Assessment, and  
Prescription mapping system  
within River Raisin Assessment  
Area.

Note: This information is  
illustrated for general  
reference purposes only.  
Boundaries are approximate.

Data Source:  
ESRI Data Library  
US Department of Agriculture  
State of Michigan CGI Data Library  
HRM Data Library



0 0.2 0.4 0.8  
Kilometers

0 0.2 0.4 0.8  
Miles



# Project Status

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- Emergent Marsh/Prairie Restoration
  - Design Complete in May 2012
  - Contract in process of being awarded now
  - Tentative construction: July 30 – December 31, 2012
- Hunt Club/Union Camp Dikes & Water Control
  - Design Complete in May 2012
  - Contract in process of being awarded now
  - Tentative construction: July 30 – December 31, 2012
- Phragmites Control
  - Year one treatment and mapping complete in 2011
  - Follow-up treatment and mapping planned in 2012-2013
- Monitoring/Survey
  - Baseline Fish Monitoring Complete in 2011
  - Baseline Shorebird Monitoring Complete in 2011
  - Baseline Wetland Mapping Complete in 2011
  - Follow-up monitoring planned in 2013-2014





# Thank You!

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Questions?