

*PRESENTATION  
TO THE*

*2005 TRI-SERVICE INFRASTRUCTURE  
SYSTEMS CONFERENCE & EXHIBITION*

**DES MOINES RIVERWALK**

*BY*

*THOMAS D. HEINOLD, P.E.*

*PROJECT ENGINEER AND ACTING CHIEF OF SPECIFICATIONS  
ROCK ISLAND DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
AUGUST 4, 2005*



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# U.S. Army Corps of Engineers



## ■ The Corps' mission:

- **Water Resources Development**
- **Environment**
- **Infrastructure**
- **Disasters**
- **Warfighting**



*One Team: Relevant, Ready, Responsive and Reliable*



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# Rock Island District



- Navigation
- Flood Control
- Recreation
- Environmental Restoration
- Emergency Management
- Disaster Relief



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# Des Moines Riverwalk



- **The Recreational River and Greenbelt Authority**
- **Trail System from Fort Dodge, Iowa to the Lake Red Rock Dam on the Des Moines River.**
- **City of Des Moines is the Federal Sponsor**





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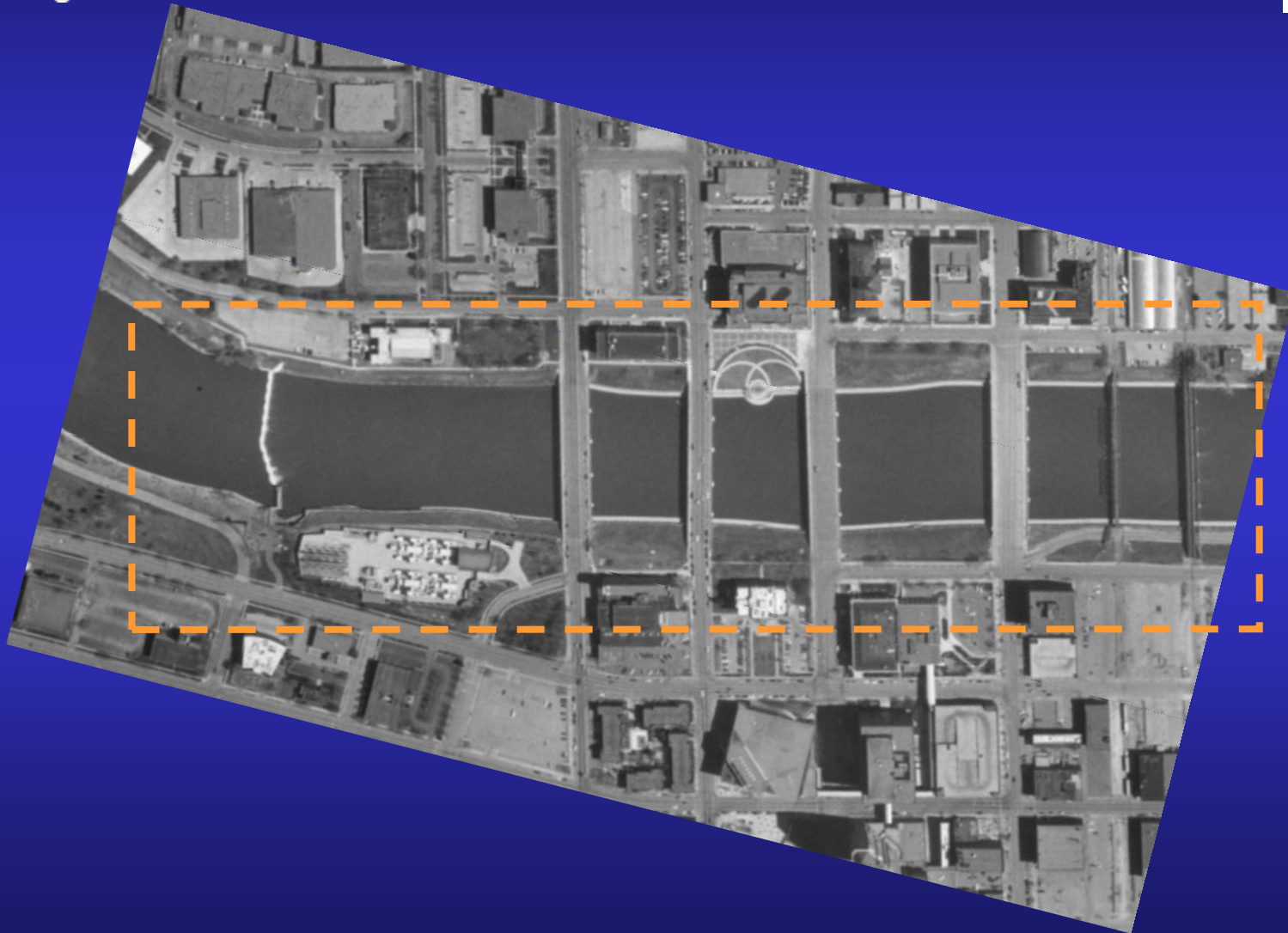
# Des Moines Riverwalk





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# Des Moines Riverwalk



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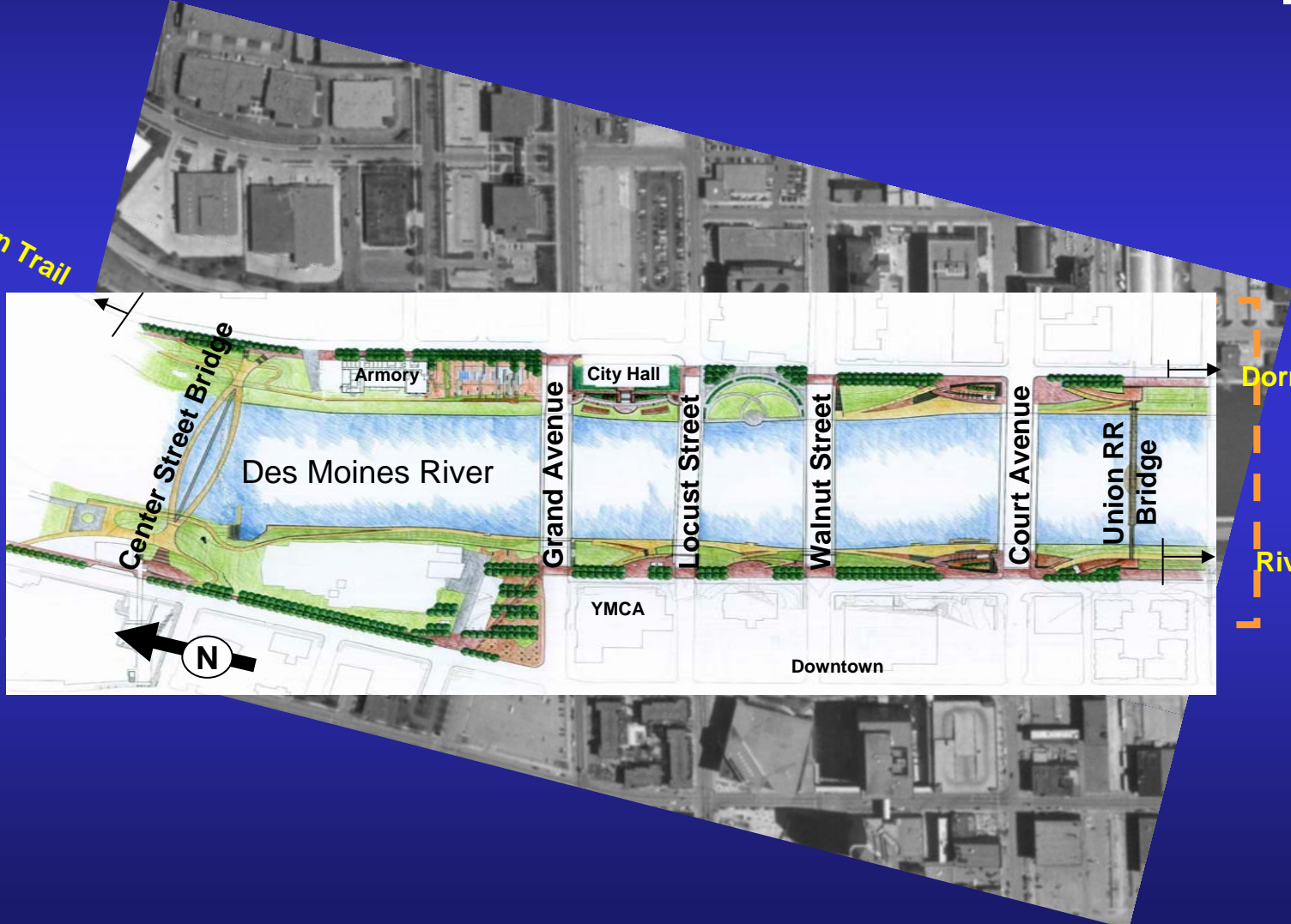


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# Des Moines Riverwalk



Dorrian Trail



Dorrian Trail

Riverpoint Trail

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# Des Moines Riverwalk

## ■ Court Avenue Plaza



**A Return to the River  
(a.k.a. Re-Energizing Engineering Excellence)**



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# Des Moines Riverwalk

## ■ Court Avenue Plaza



**A Return to the River  
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# Des Moines Riverwalk

## ■ Court Avenue Plaza



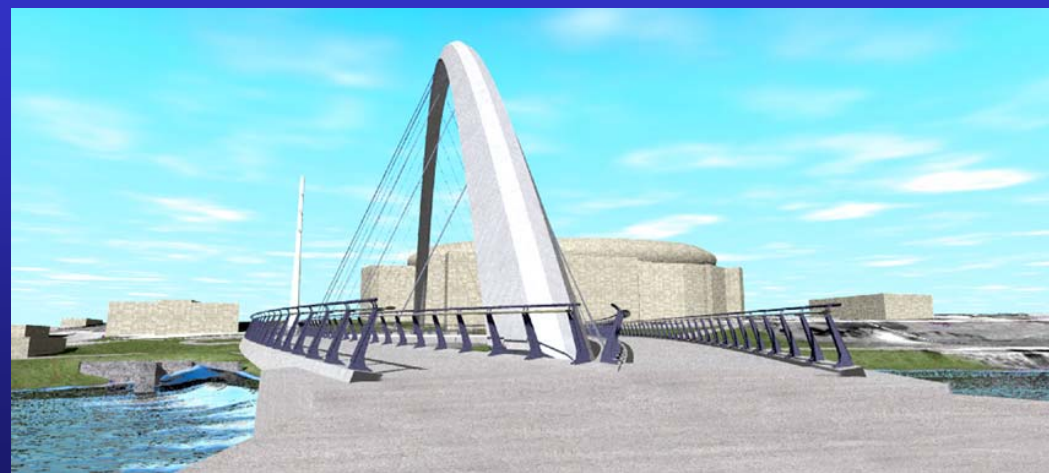
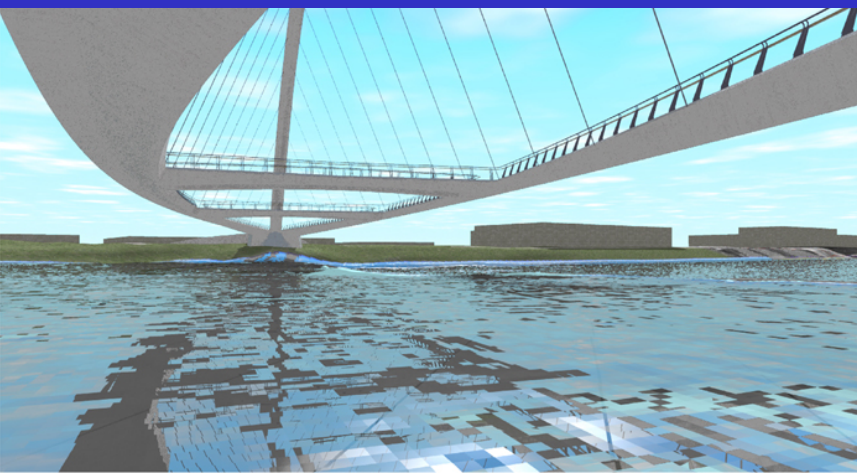
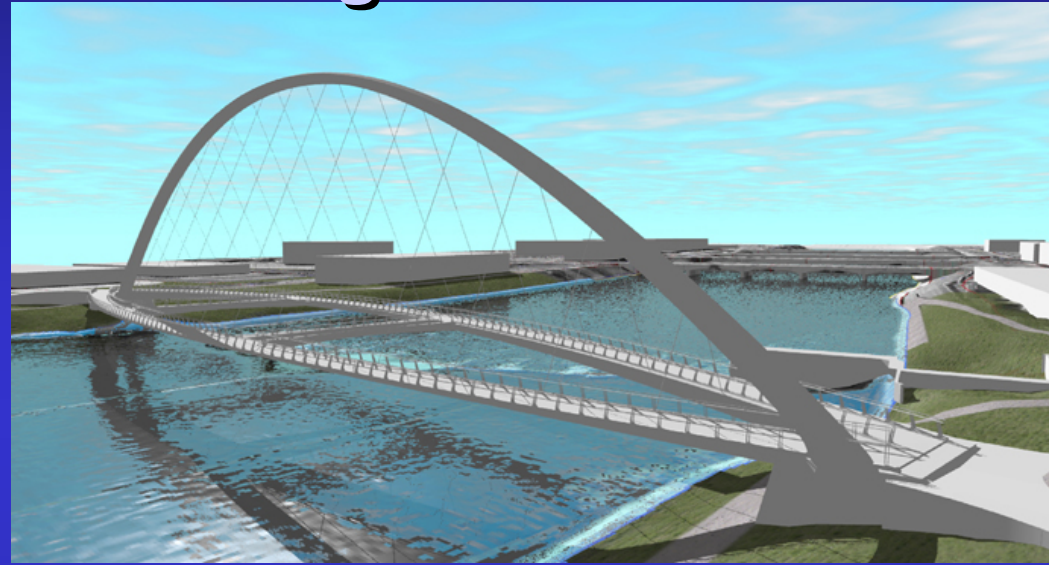
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## ■ Center Street Bridge



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# Des Moines Riverwalk

- Union Railway Bridge



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# Des Moines Riverwalk

- Union Railway Bridge



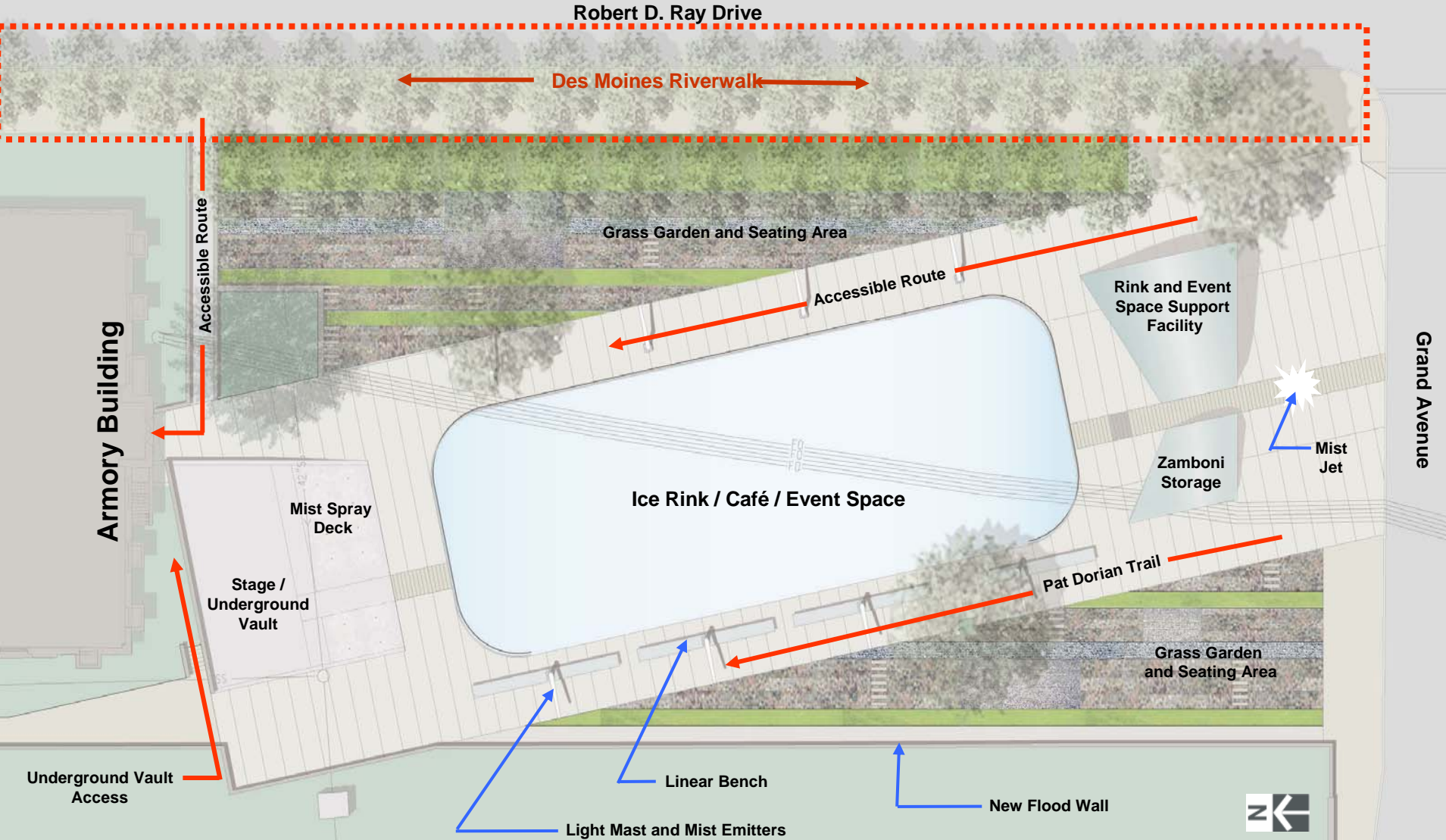
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# Des Moines Riverwalk

## ■ Ice Skating Plaza



Robert D. Ray Drive

Des Moines Riverwalk

Grass Garden and Seating Area

Accessible Route

Rink and Event  
Space Support  
Facility

Armory Building

Accessible Route

Mist Spray  
Deck

Stage /  
Underground  
Vault

Ice Rink / Café / Event Space

Mist  
Jet

Zamboni  
Storage

Pat Dorian Trail

Grass Garden  
and Seating Area

Underground Vault  
Access

Linear Bench

New Flood Wall

Light Mast and Mist Emitters



Grand Avenue

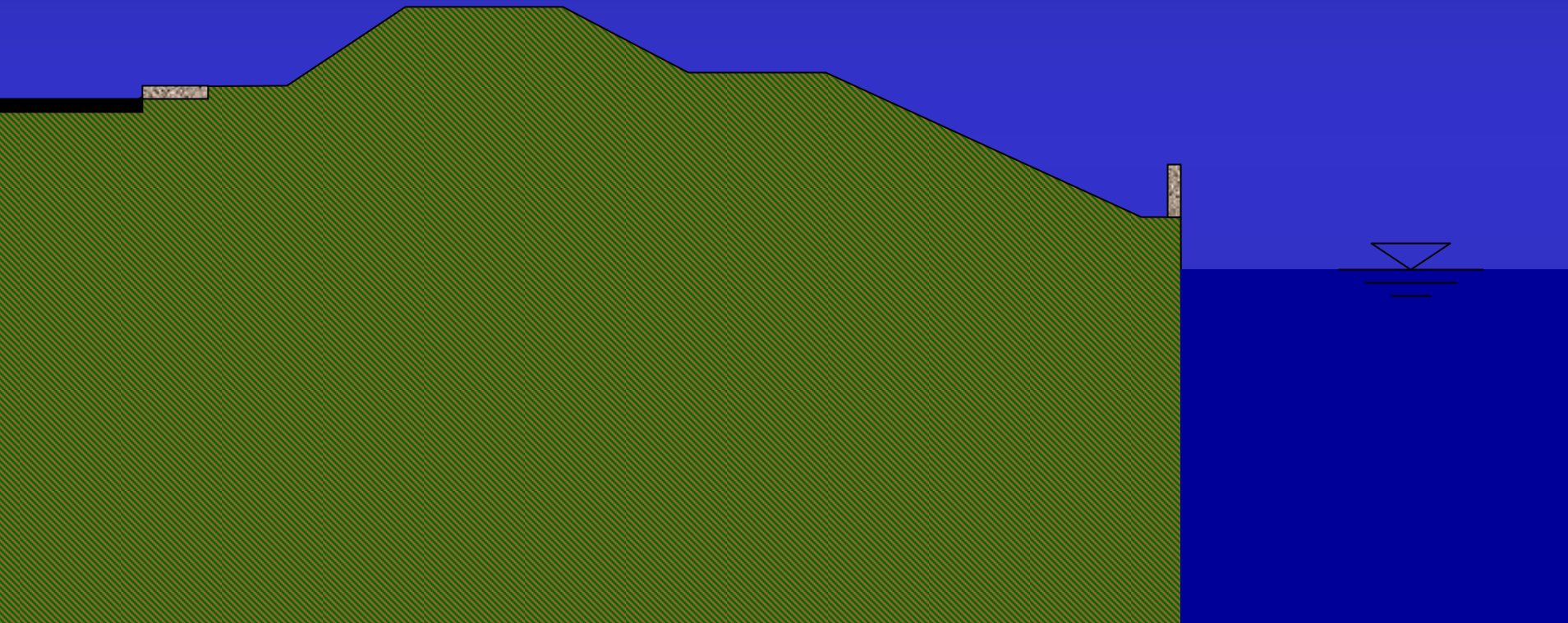


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# Des Moines Riverwalk



- Coordination with a CSO project



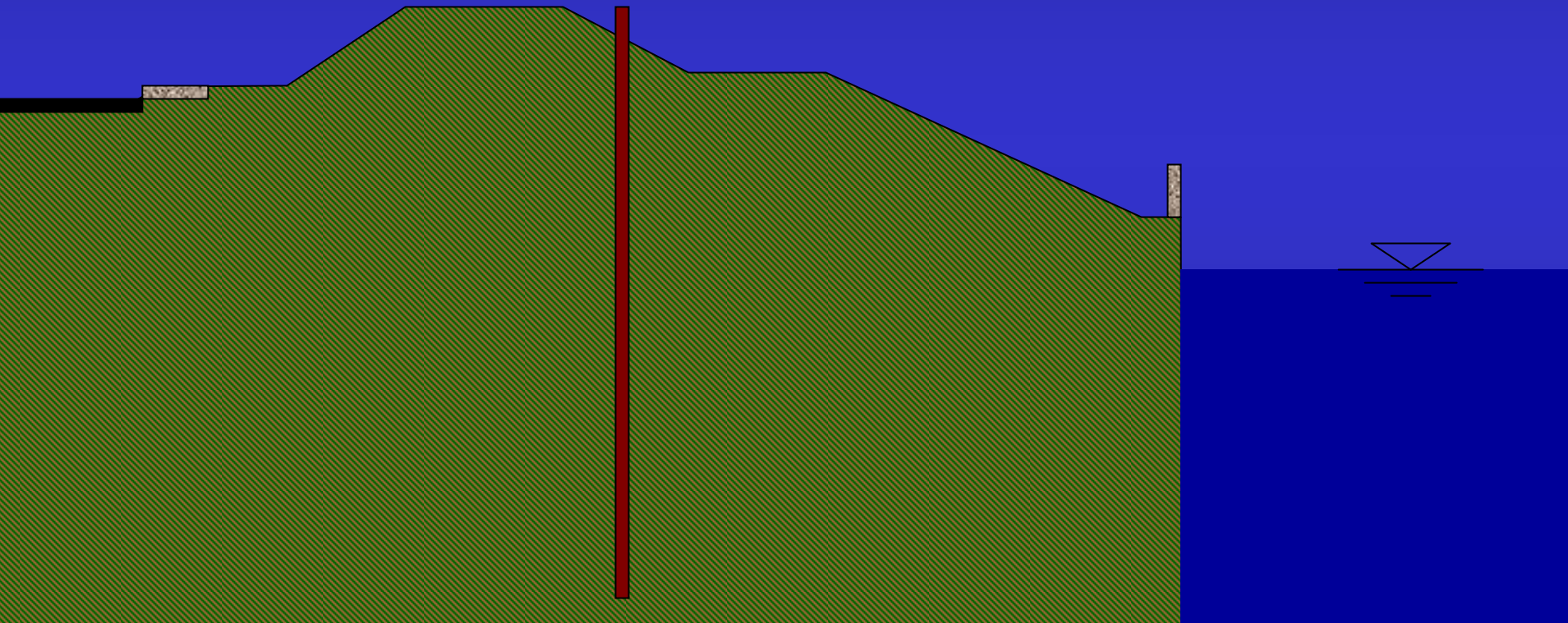


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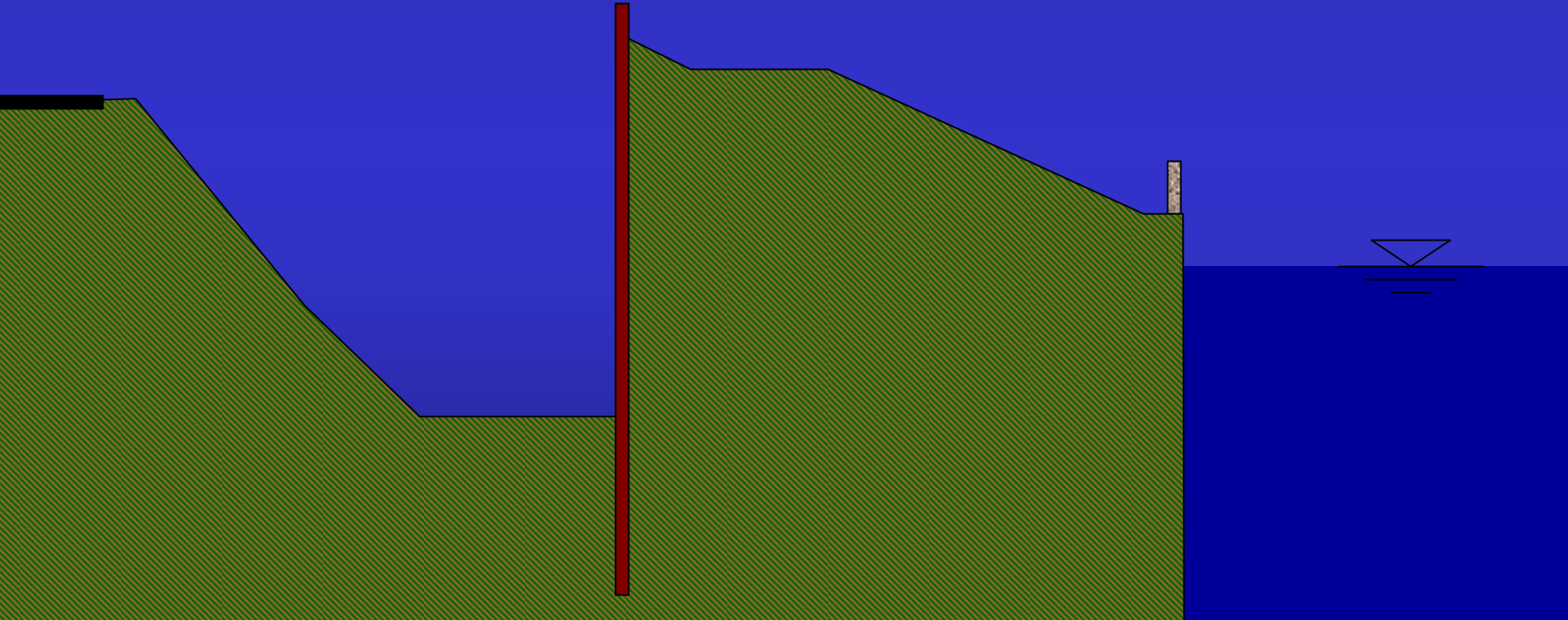


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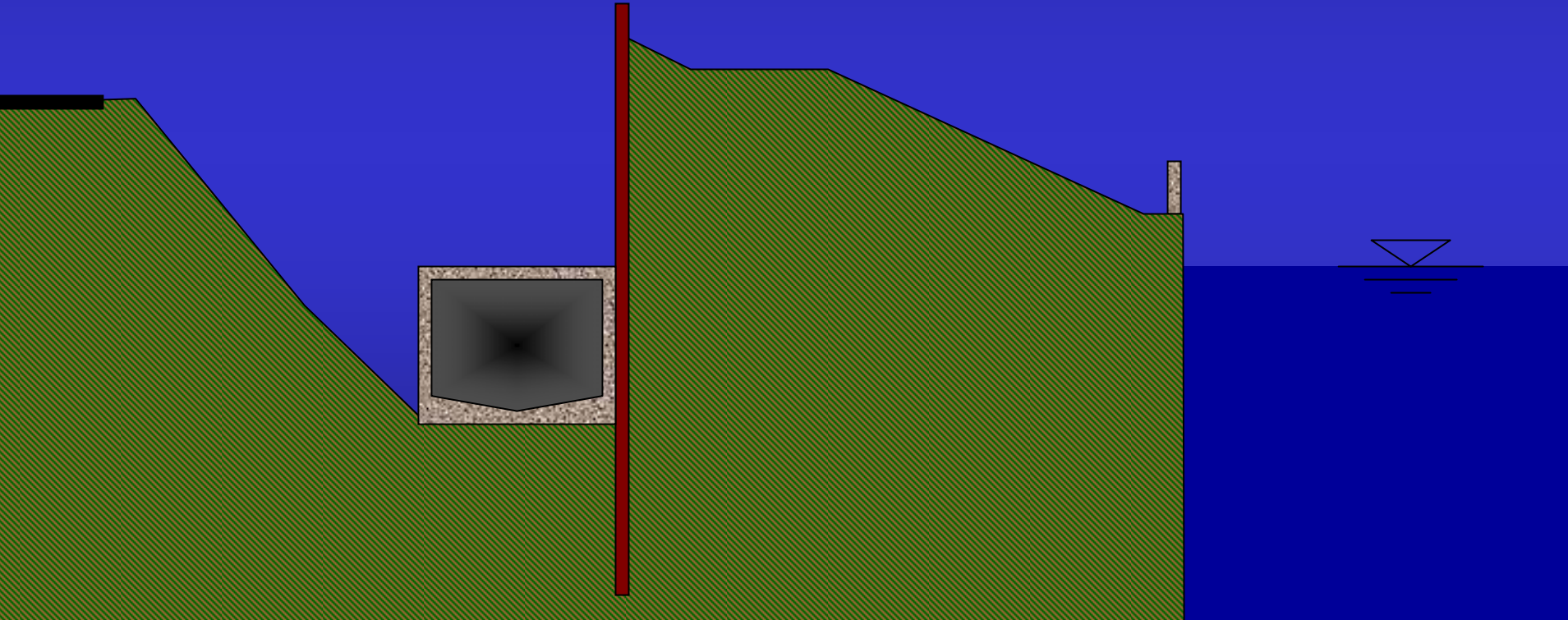


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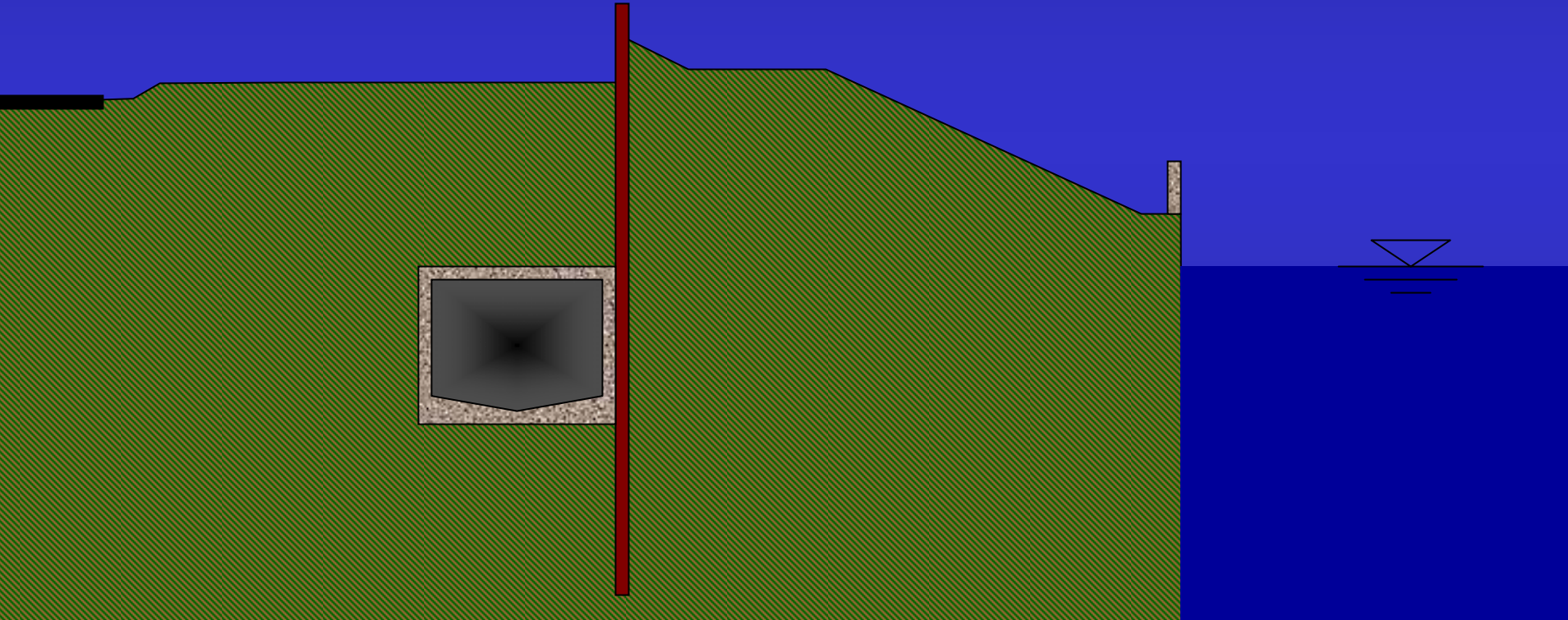


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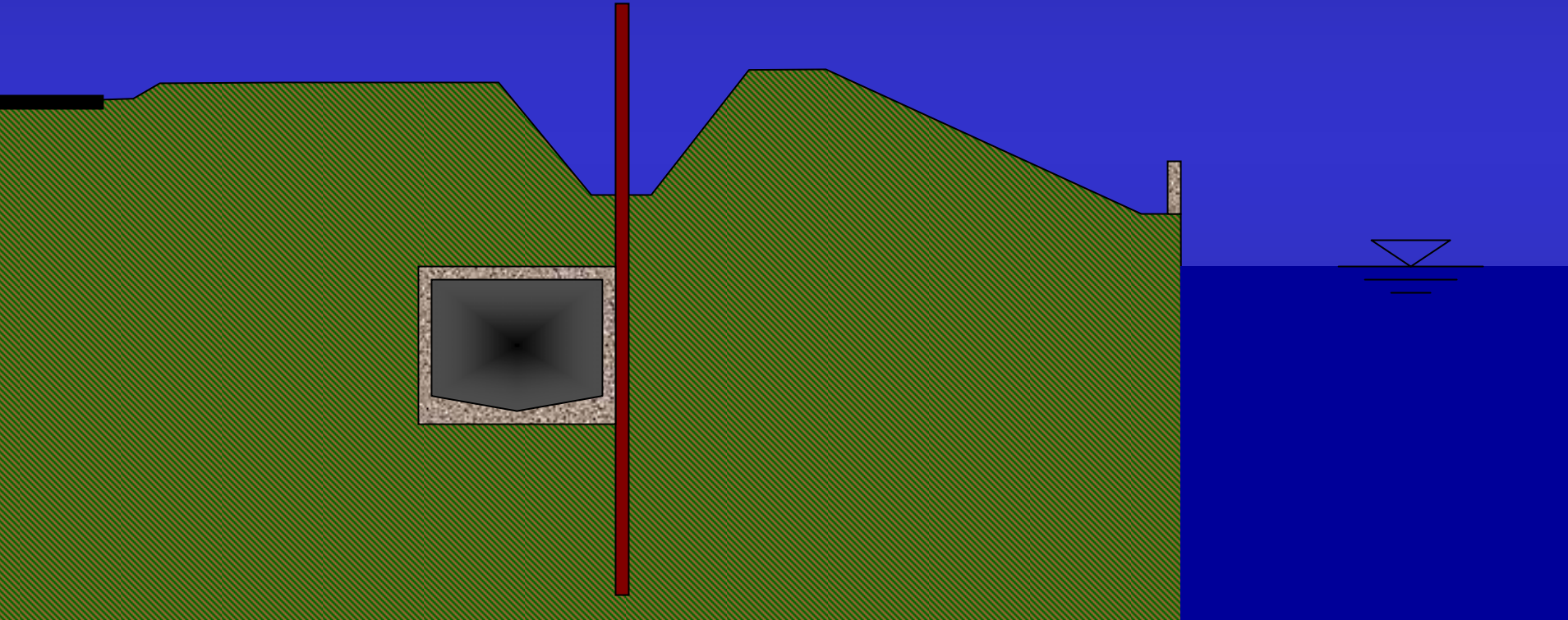


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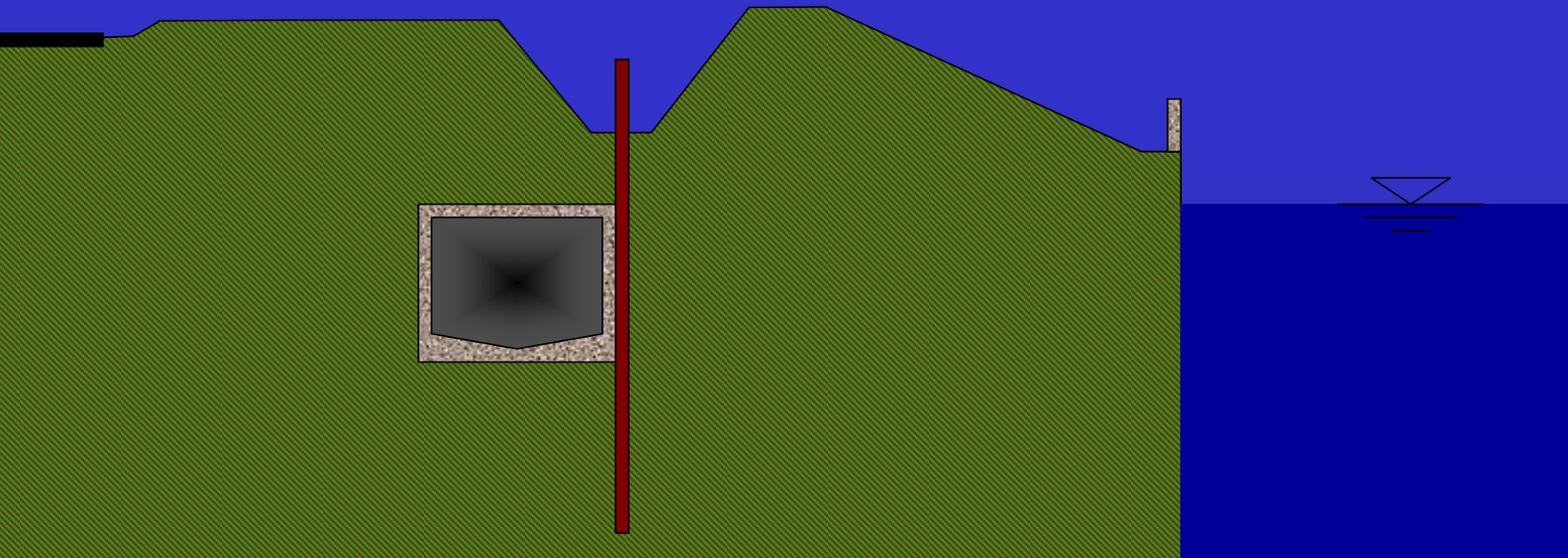


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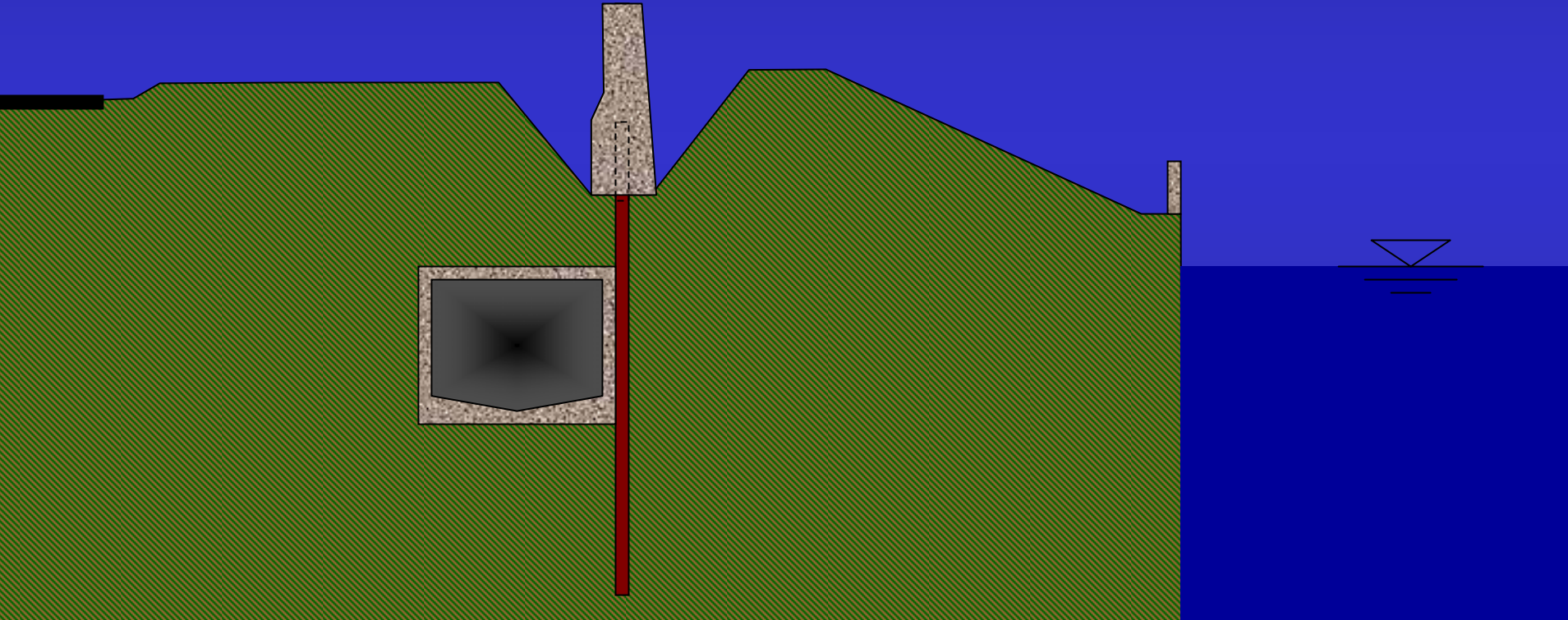


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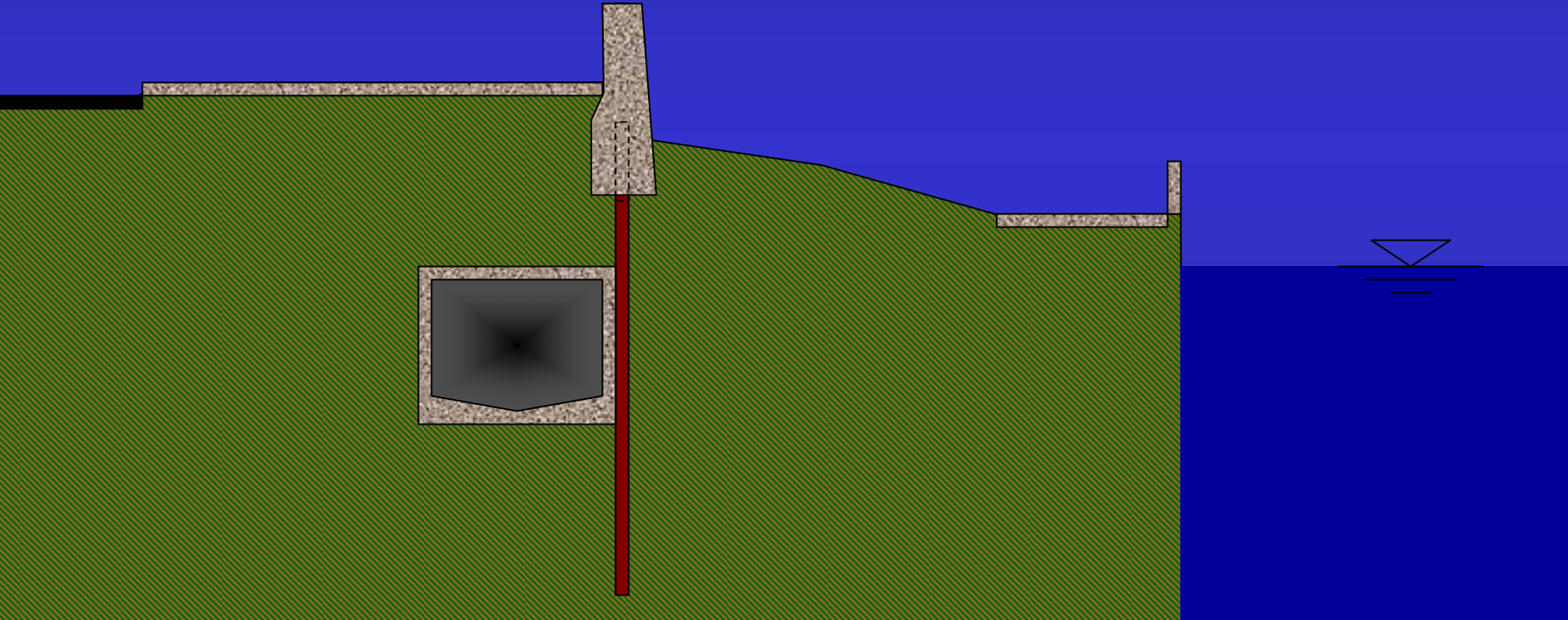


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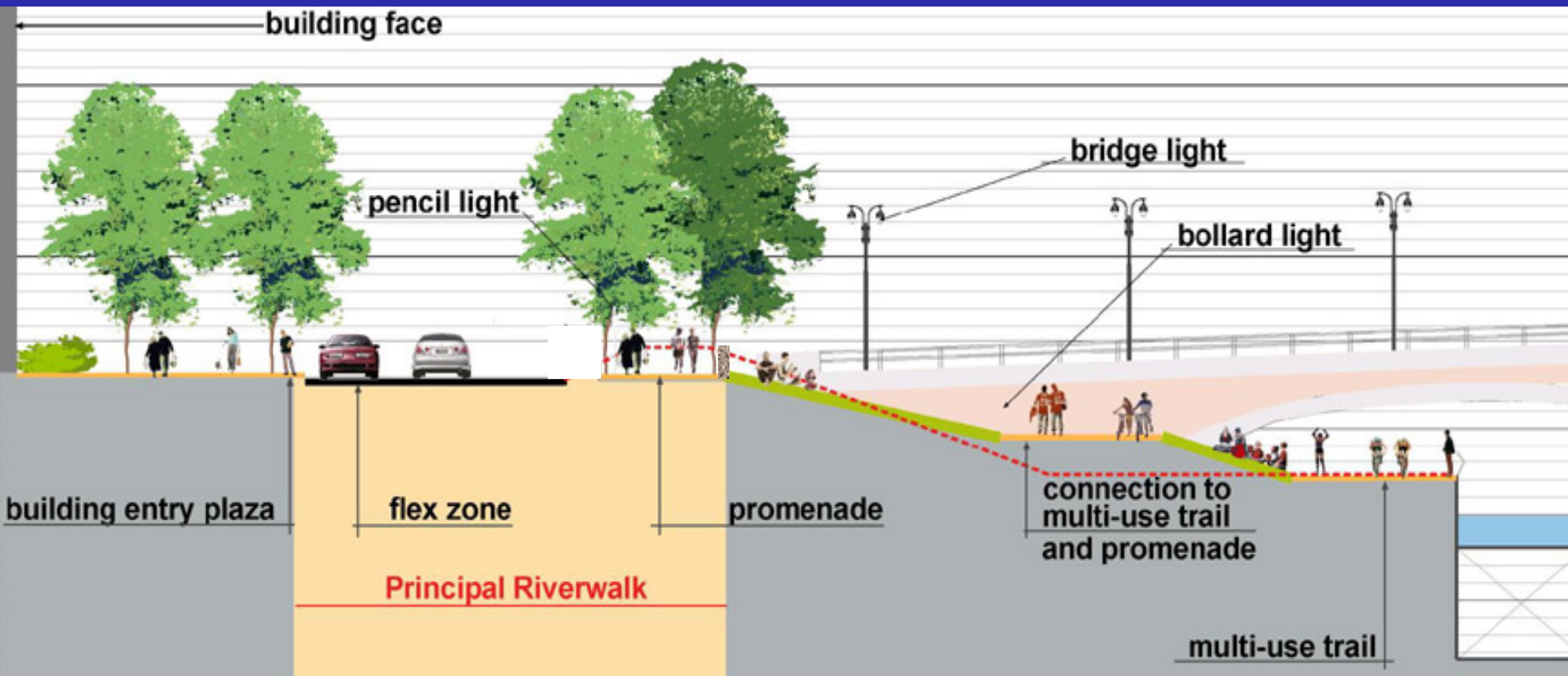
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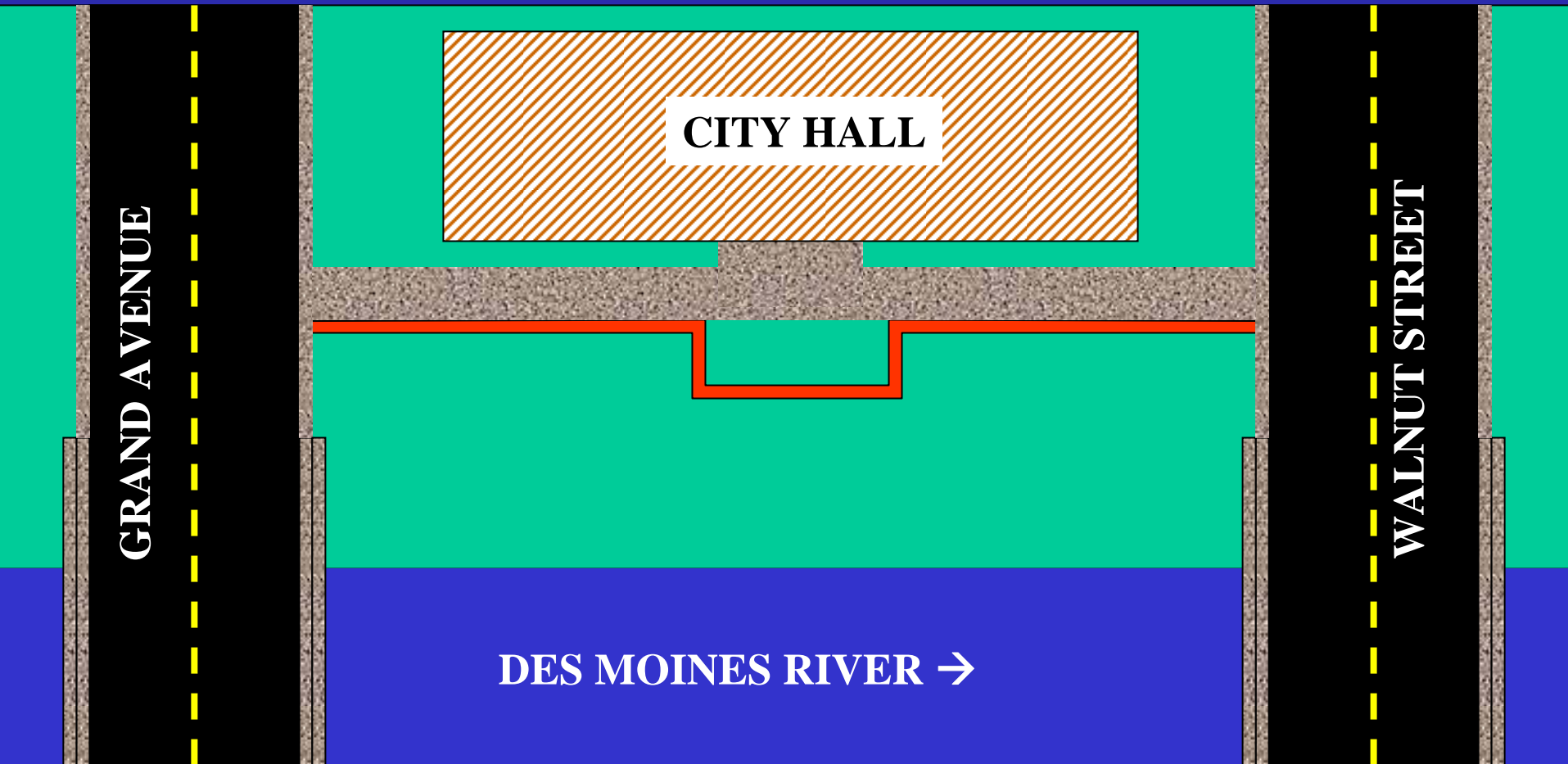


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- Layout of new floodwalls & gates at City Hall



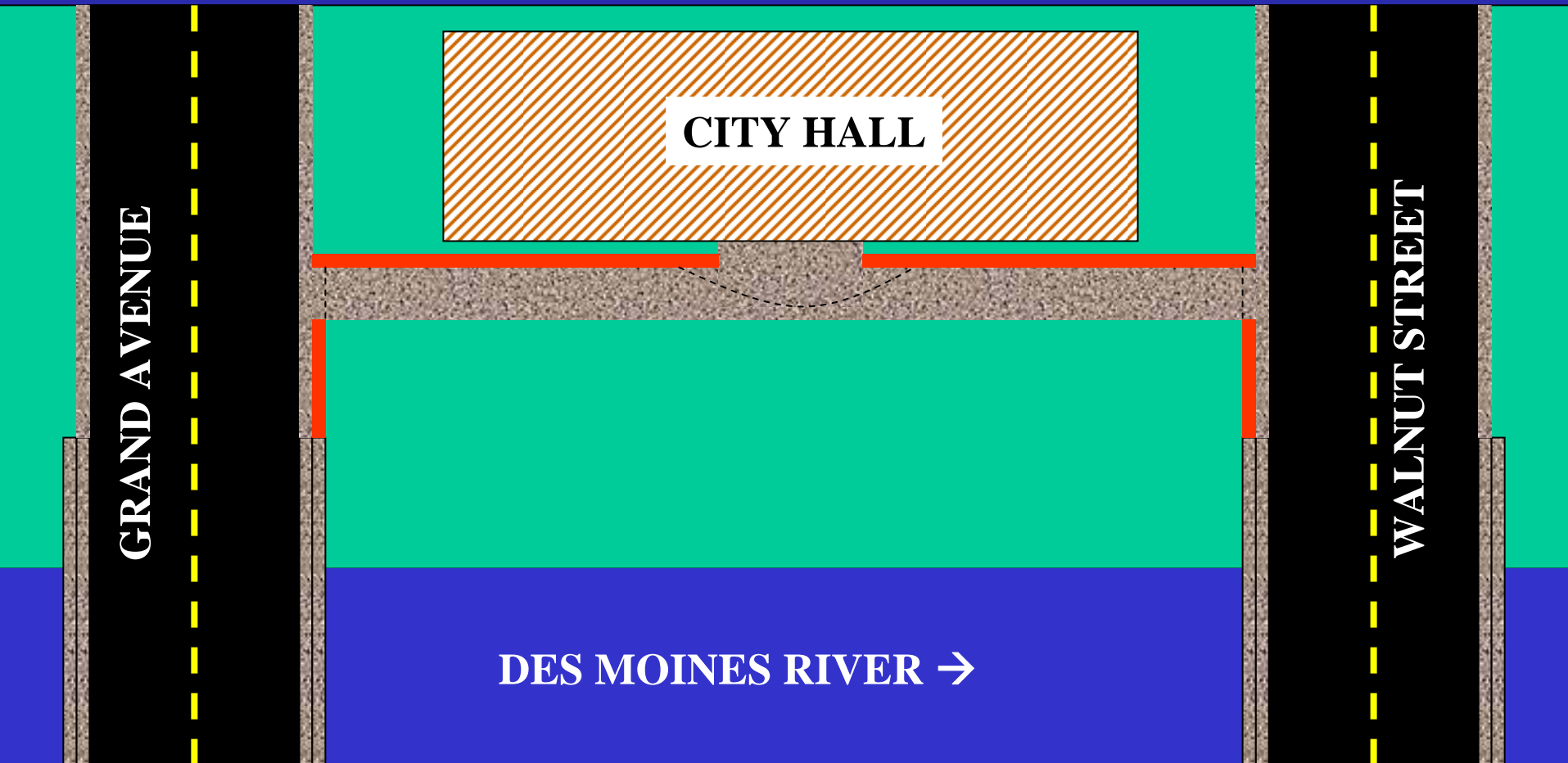


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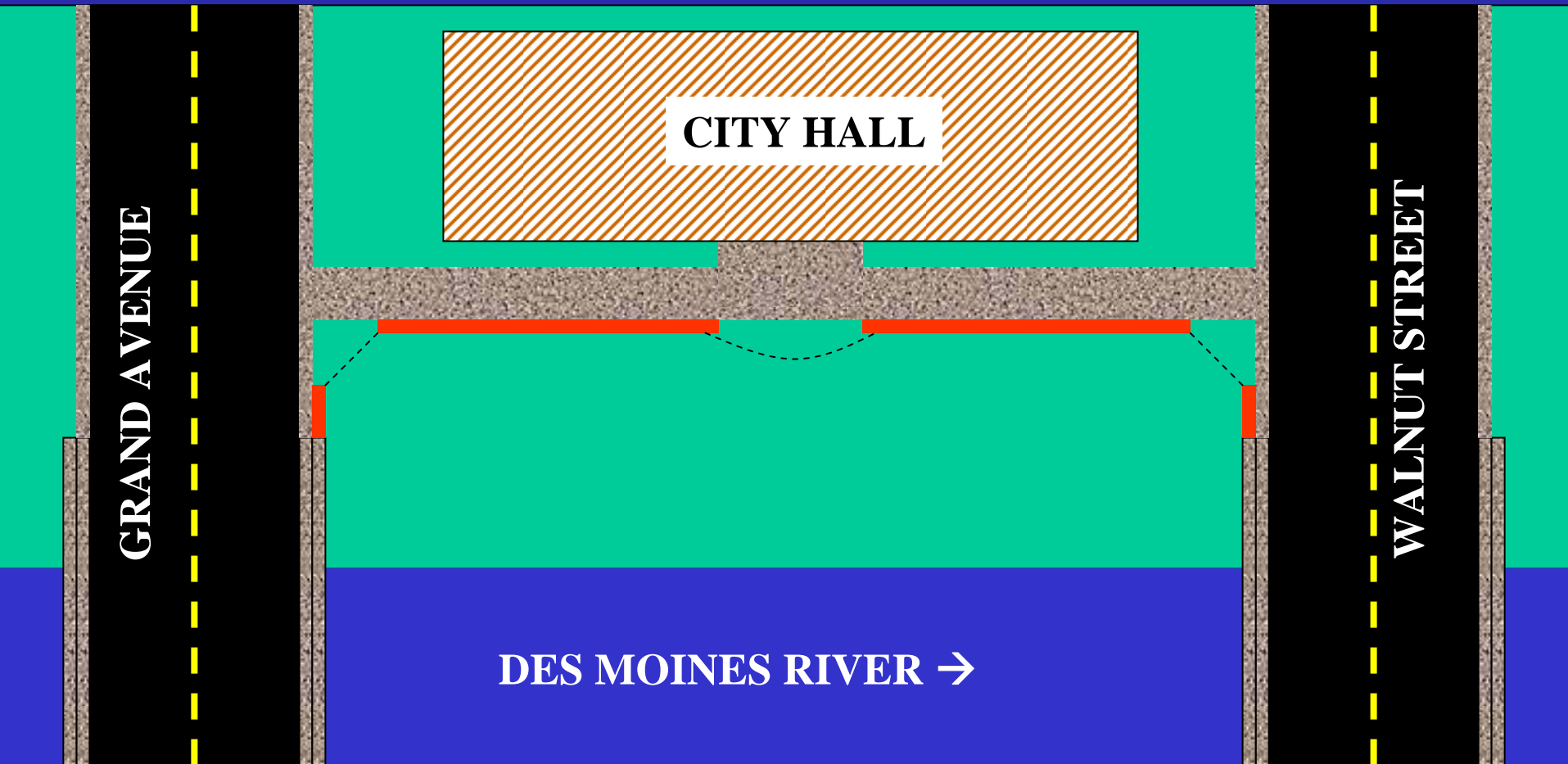


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- Layout of new floodwalls & gates at City Hall



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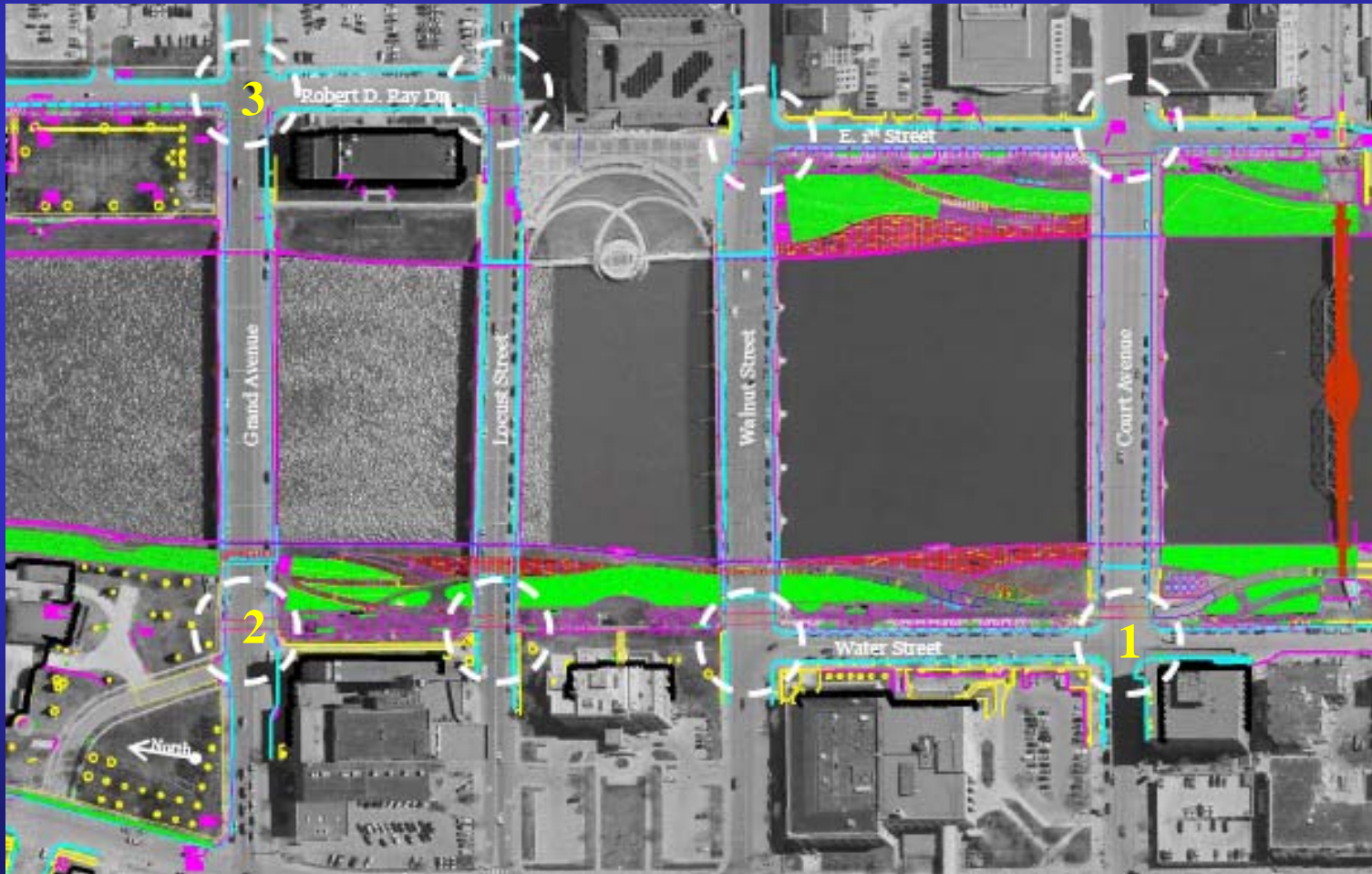


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# Des Moines Riverwalk



- **Pedestrian / Vehicular Traffic Concerns**



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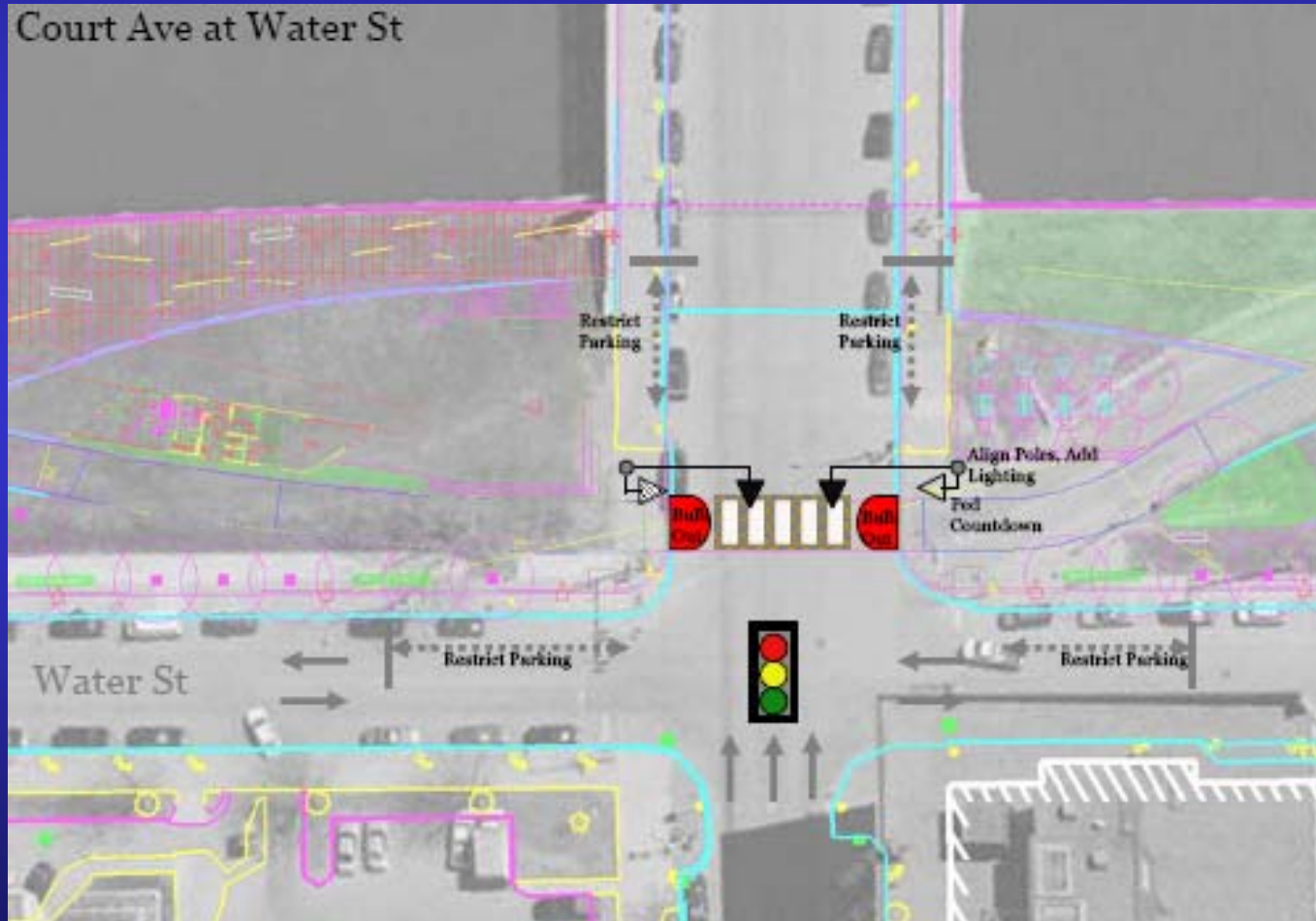


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## ■ Pedestrian / Vehicular Traffic Concerns



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## ■ Pedestrian / Vehicular Traffic Concerns



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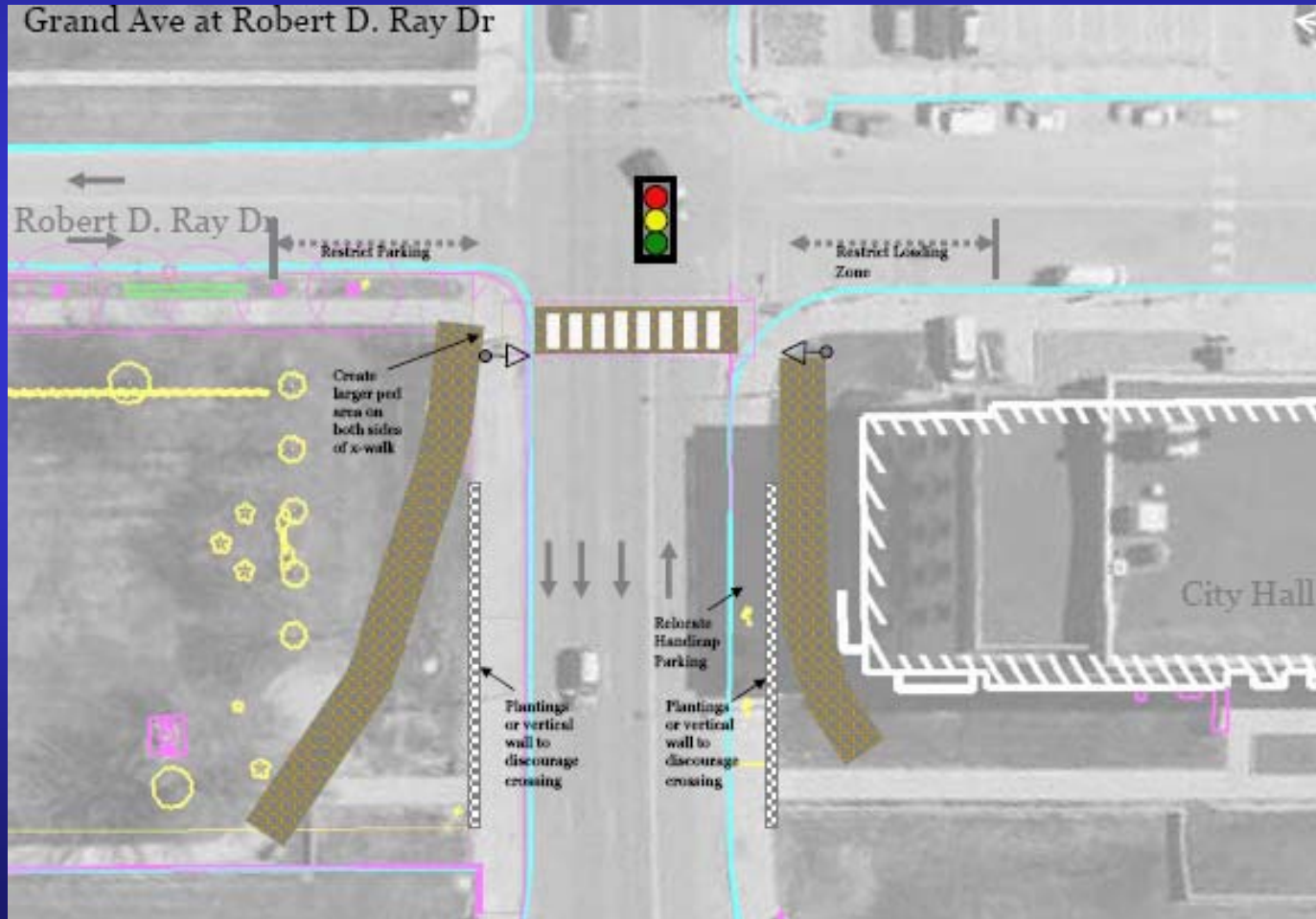


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## ■ Pedestrian / Vehicular Traffic Concerns



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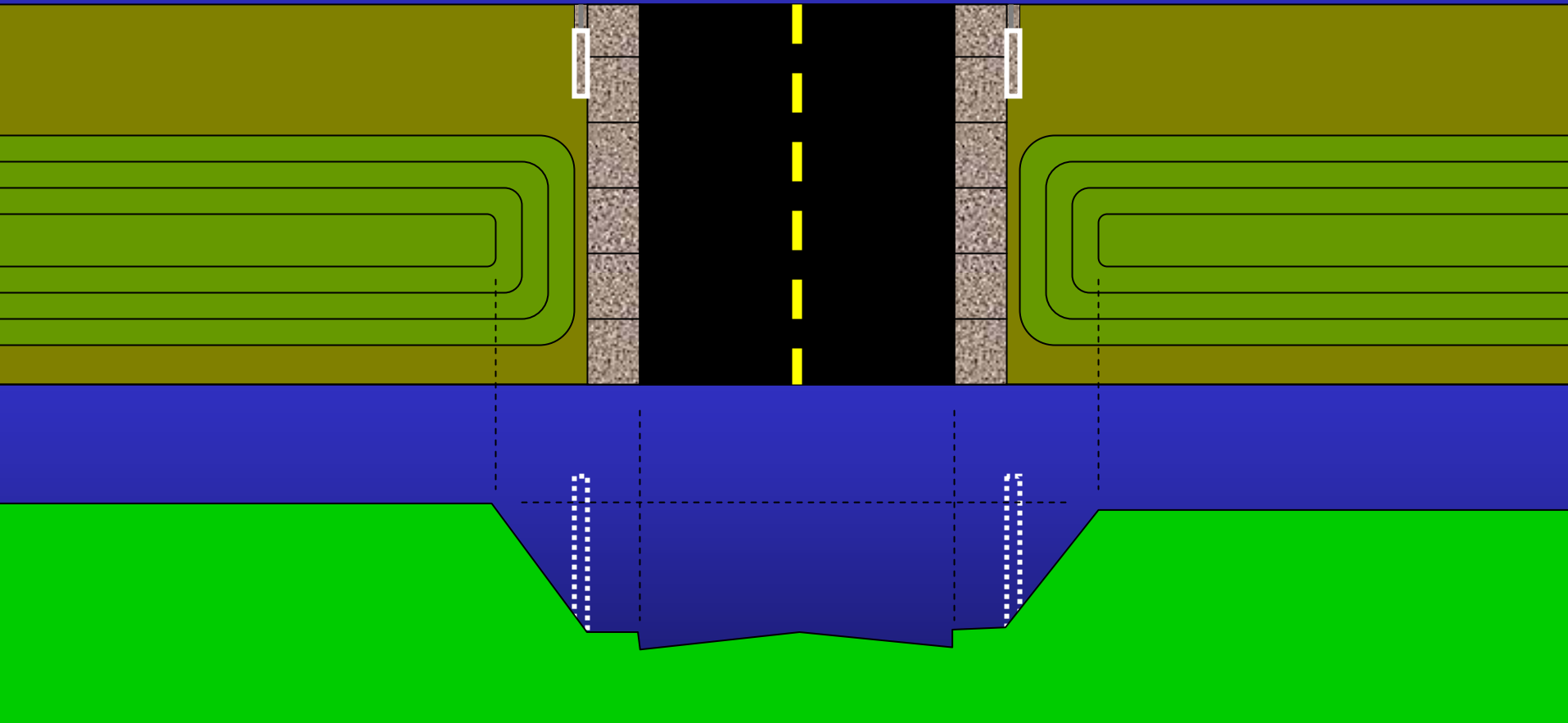


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- Integration with Flood Control



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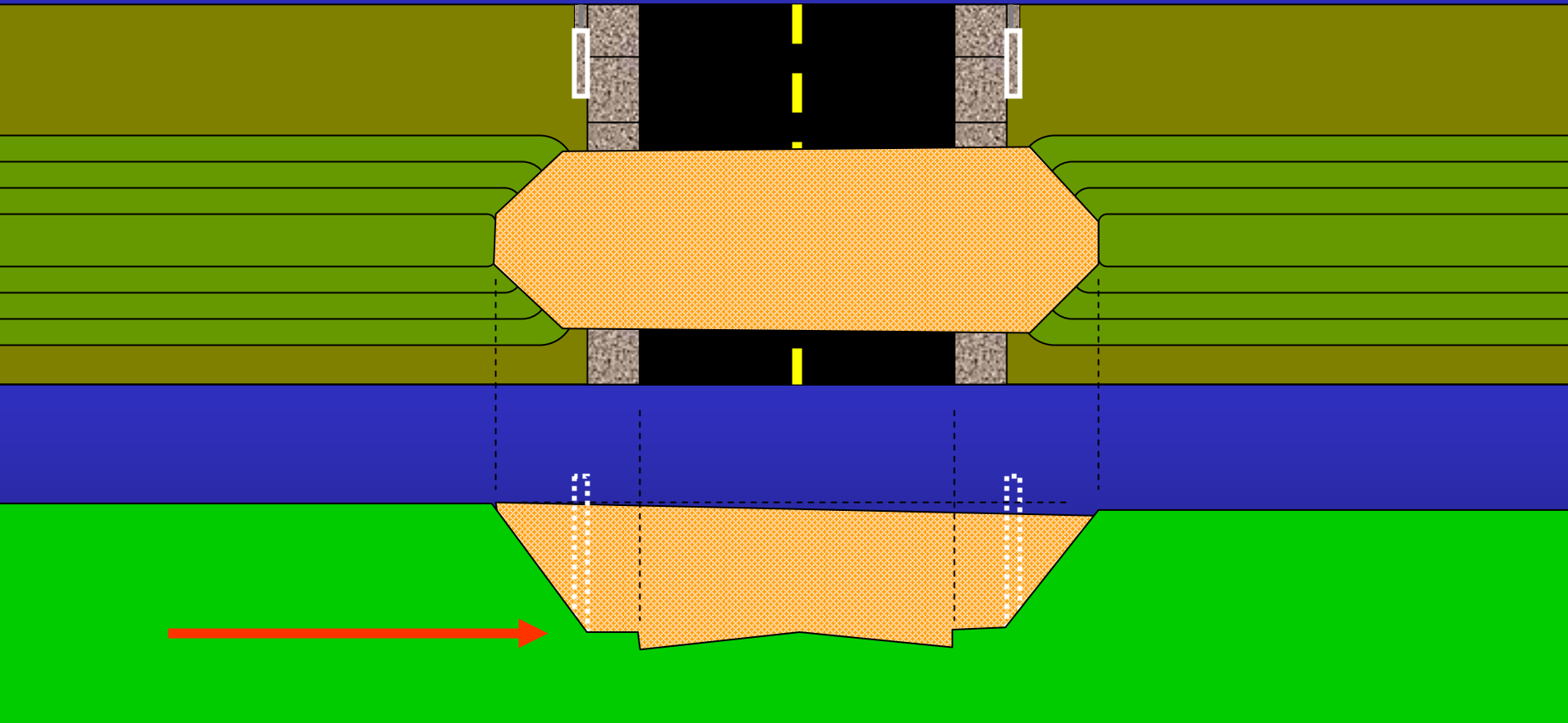


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- Integration with Flood Control



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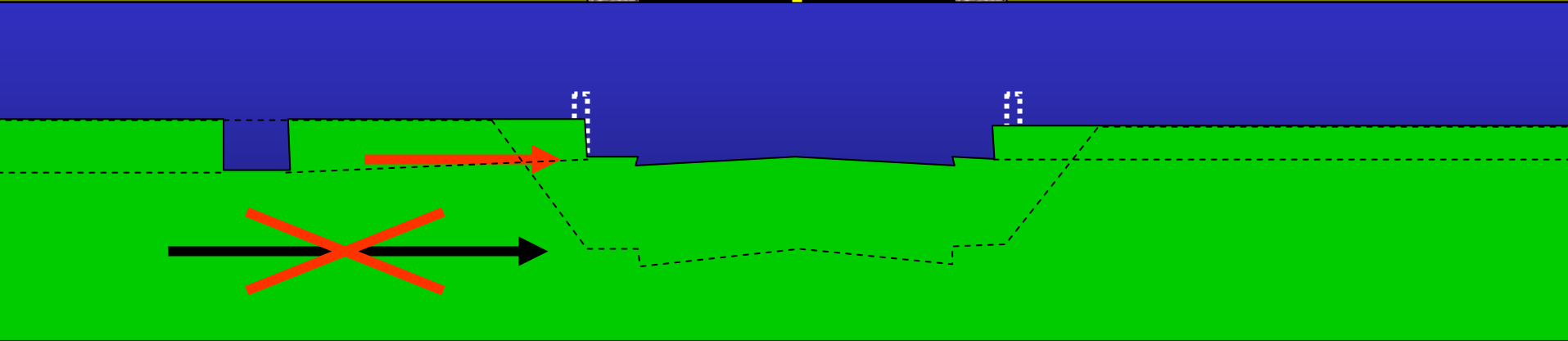
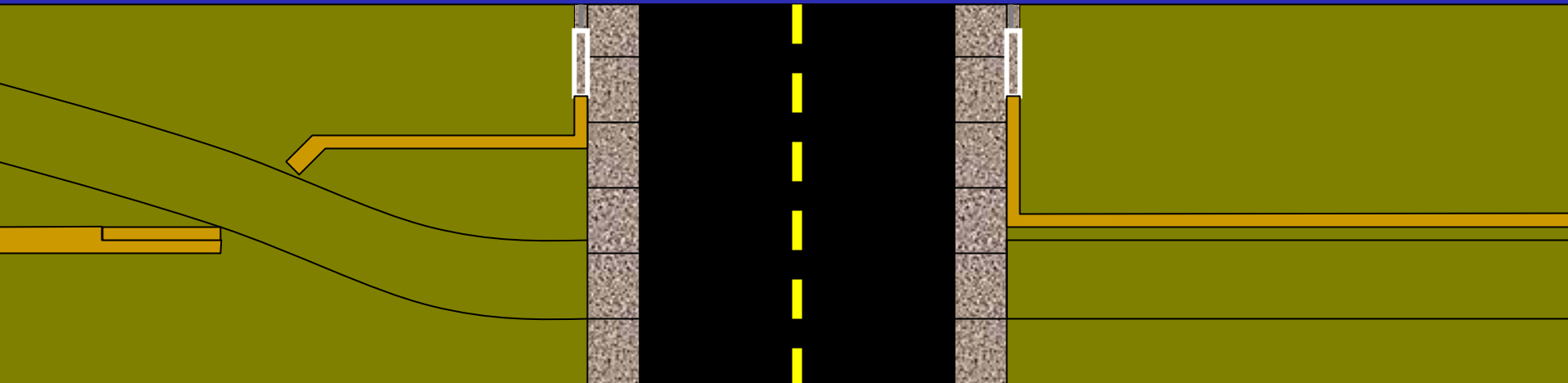


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## ■ Integration with Flood Control



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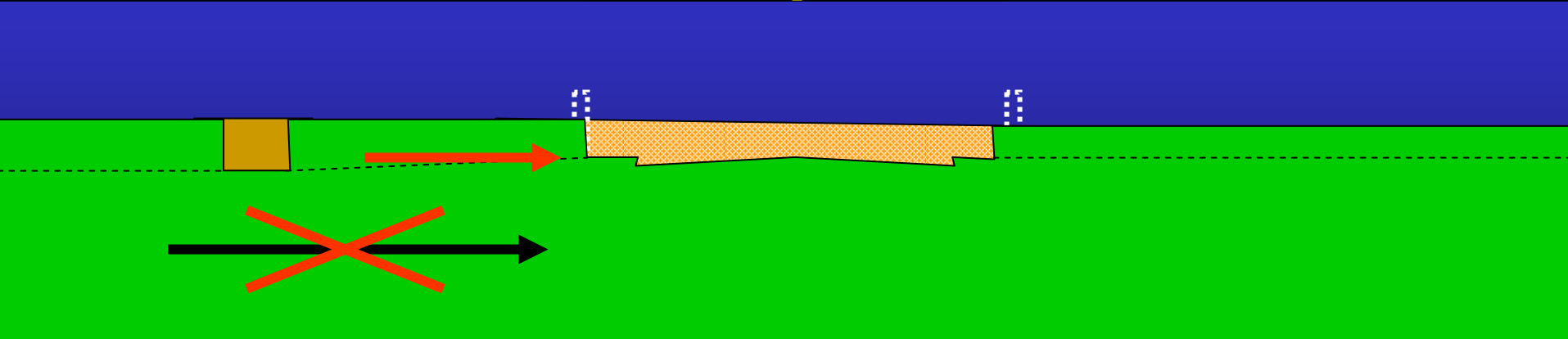
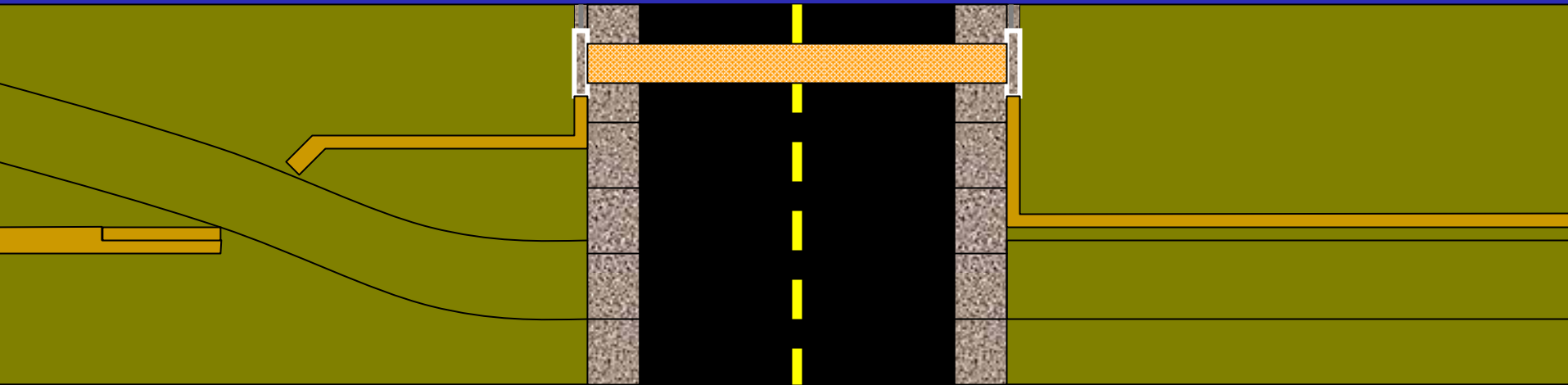


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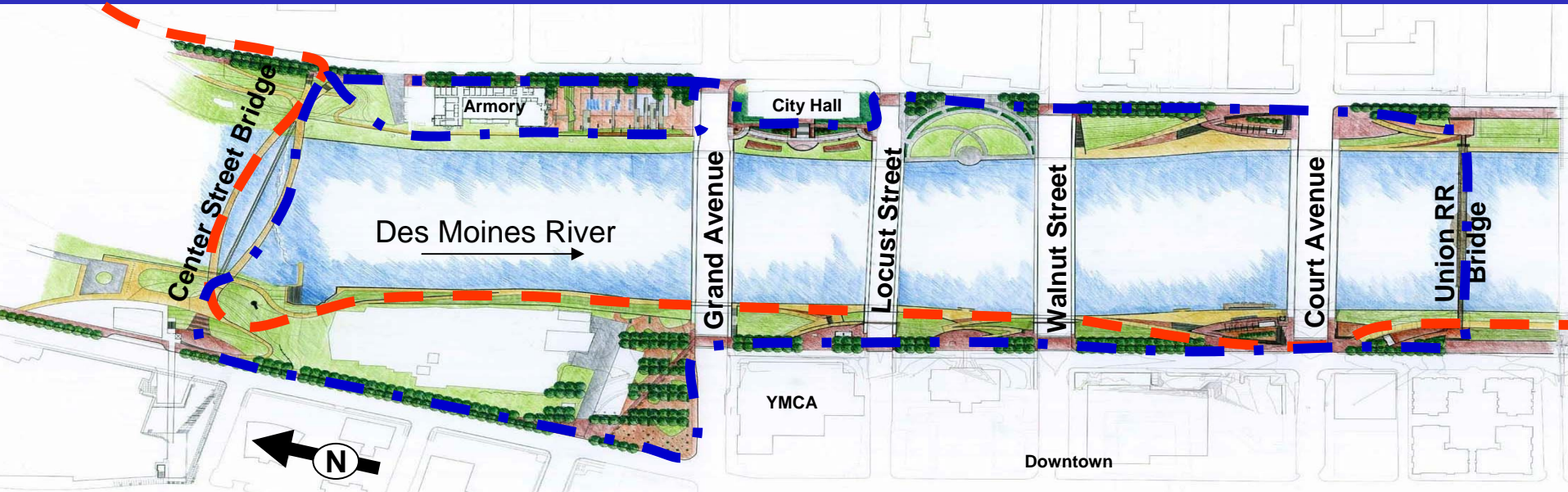


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## ■ Acknowledgments

- **Stanley Consultants / INCA Joint Venture**
  - ◆ Wallace, Roberts and Todd, LLC
- **The Weitz Group**
- **Principal Financial Group**
- **The Hanson Company**
- **Center for Traffic Research and Education**
  - ◆ Iowa State University



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*U.S. Army Engineer District, Rock Island*

*Clock Tower Building*

*Rock Island, Illinois, 61204-2004*