

# Iowa Flood Mitigation Program



# Iowa Flood Mitigation Board

- The Flood Mitigation Board was created by the Iowa General Assembly and signed into law ([Iowa Code, Chapter 418](#)) by Governor Branstad in 2012. The board is charged with creating a flood mitigation program for Iowa. This program will allow certain governmental entities to submit flood mitigation projects to the Board for review and possible approval for funding.
- The funding will come from either sales tax increments or funds appropriated by the General Assembly.
- The Board itself is composed of four members from the public, five members from state agencies, as well as four ex-officio members from the General Assembly



# Iowa Flood Mitigation Program

## Eligibility

- An eligible applicant is a governmental entity as defined under the Code of Iowa § 418.1 (4).
- Eligible project types include construction and reconstruction of levees, embankments, impounding reservoirs, conduits or other means that are necessary for the protection from the effects of floodwaters and may include the deepening, widening, alteration, change, diversion, or other improvement of watercourses if necessary for the protection of such property from the effects of flood waters. A project may consist of one or more phases of construction or reconstruction that are contracted for separately if the larger project is a part, otherwise meets the requirements under the Code of Iowa § 418.1 (5).



# Iowa Flood Mitigation Program

## Eligibility continued

- For the project to be eligible for sales tax increment funding it is required to have been approved to receive federal financial assistance under the Water Resources Development Act (WRDA), Environmental Protection Agency (EPA), or other federal program providing assistance specifically for hazard mitigation. The federal award must be in an amount equal to at least twenty percent (20%) of the total project cost or thirty million dollars (\$30,000,000), whichever is less. Code of Iowa § 418.4 (3b).
- For the project to be eligible for flood mitigation funding or sales tax increment funding, the governmental entity shall provide a local match of at least fifty percent (50%) of the total cost of the project less any federal financial assistance. Code of Iowa § 418.9 (2d).



# Iowa Flood Mitigation Program

## Eligibility continued

- The sales tax increment shall fund a maximum of 50% of the total project cost. The federal share of the total project cost shall be a minimum of 20% of the total project cost or \$30 million, whichever is less. The local match, when combined with the federal share, shall fund a minimum of 50% of the total project cost. The governmental entity shall provide funding for the local match.
- For example:

Federal share:	\$ 20 (meets the minimum of 20% of the total project cost)
Local share:	\$ 30 (federal plus local meets the minimum of 50% of project total)
<u>Sales Tax Increment:</u>	<u>\$ 50</u> (meets the maximum of 50% of the total project cost)
Total project cost:	\$100



# Iowa Flood Mitigation Program

## Eligibility continued

- The project must result in nonpublic investment in the governmental entity's area as defined in Code of Iowa § 418.11 (3), of an amount equal to fifty percent (50%) of the total cost of the project. For purposes of this paragraph, "nonpublic investment" means investment by nonpublic entities consisting of capital investment or infrastructure improvements occurring in anticipation of or as a result of the project during the period of time between July 1, 2008, and then years after the board approves the project. Code of Iowa § 418.9 (2d).



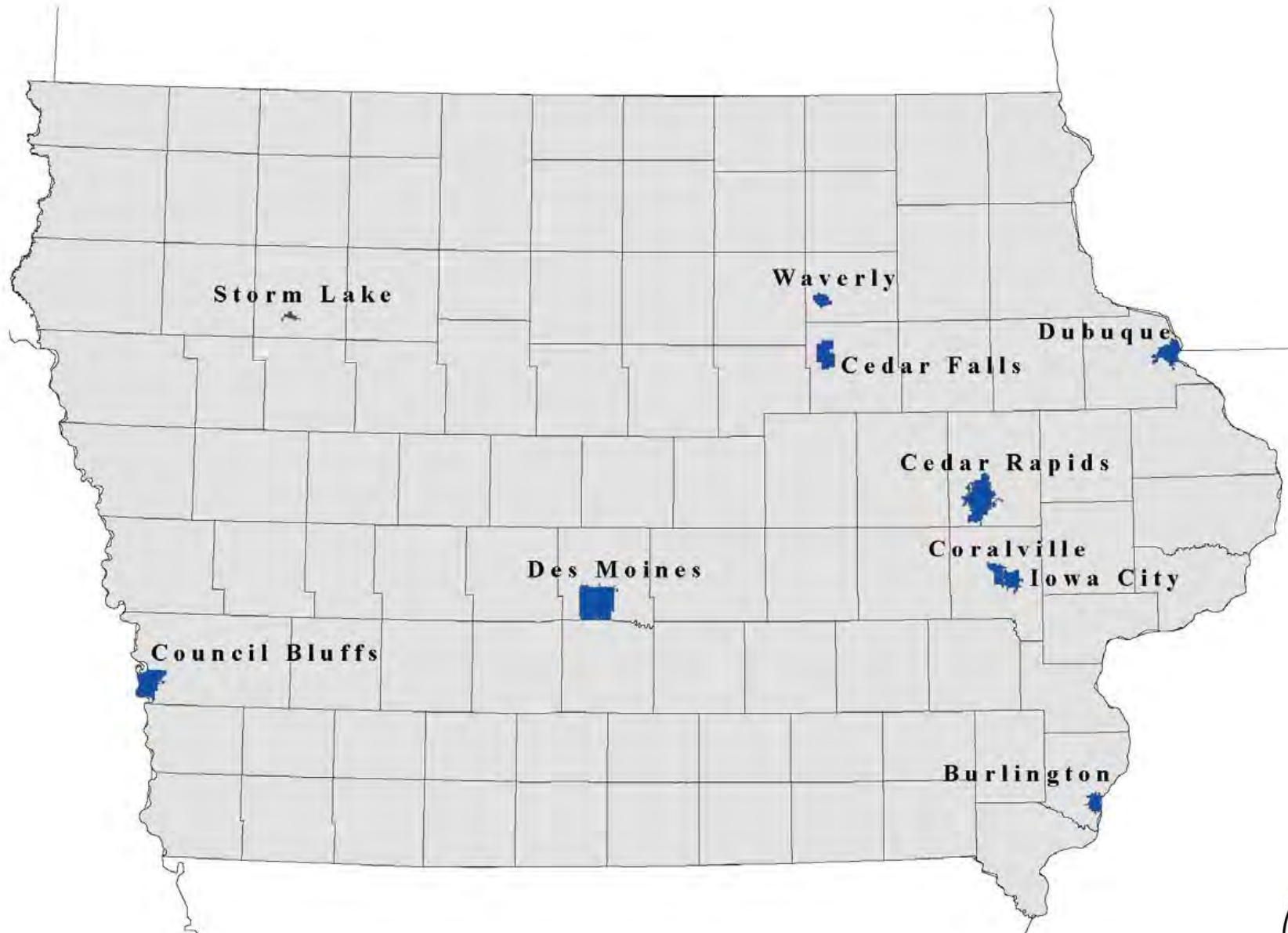
# Iowa Flood Mitigation Program

## Application Deadline

- A governmental entity shall submit an application to the board for approval of a project plan. The board shall not approve a project for inclusion in the program if the application is submitted after January 1, 2016.



# Flood Mitigation Program





# Iowa Flood Mitigation Program

- TEN applications approved.
  - Sales tax Increment: \$596 million
  - Local/Fed. Funds: \$786 million
  - Total Costs: \$1.4 billion
- Potential Total Increment:  
\$660 million until 2036
- FY 2014 & 2015 Increment not funded:  
\$38 million
- FY 2034 & 2035 Increment available:  
\$24 million



# Iowa Flood Mitigation Program

- Sales Tax Increment (STIF) Approved \$596 million
- IDR Reported STIF disbursed as of 06/30/2017 \$77 million

Expended as of 10/31/2017

- Federal \$328 million
- Local \$202 million
- STIF (eligible) \$128 million
  
- Non-Public Investment \$588 million



# City of Burlington



- Flood Mitigation Proposal  
2015



# Burlington Flood Protection Plan



Burlington's flood control strategy includes a combination of permanent and temporary flood walls.

- Provides flood protection for the City's priority areas of the downtown and the critical infrastructure of the WWTP.
- Protection of historic and cultural landmarks
- Builds upon improvements totaling \$64.2 Million since 2009
- Prevents devastating effects on economic development
- Proposed Flood Protection ~2' greater than 2008 historic high.

Budget breakdown:

Total Project: \$64,219,235

Federal Funding -	\$17,036,693 (26.53%)
Local Funding -	\$20,982,542 (32.67%)
Sales Tax Increment -	\$26,200,000 (40.80%)



Operations and Maintenance is funded by the general fund and sewer revenues.

- Staff Training
- Periodic operation of all gates
- Exercising of pumps
- Removal of rubbish from green infrastructure
- Permeable pavement maintenance
- Clearing, repair or replacement of flood control devices





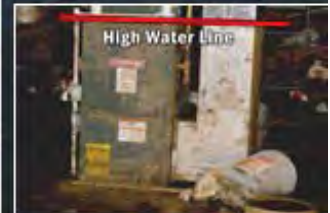
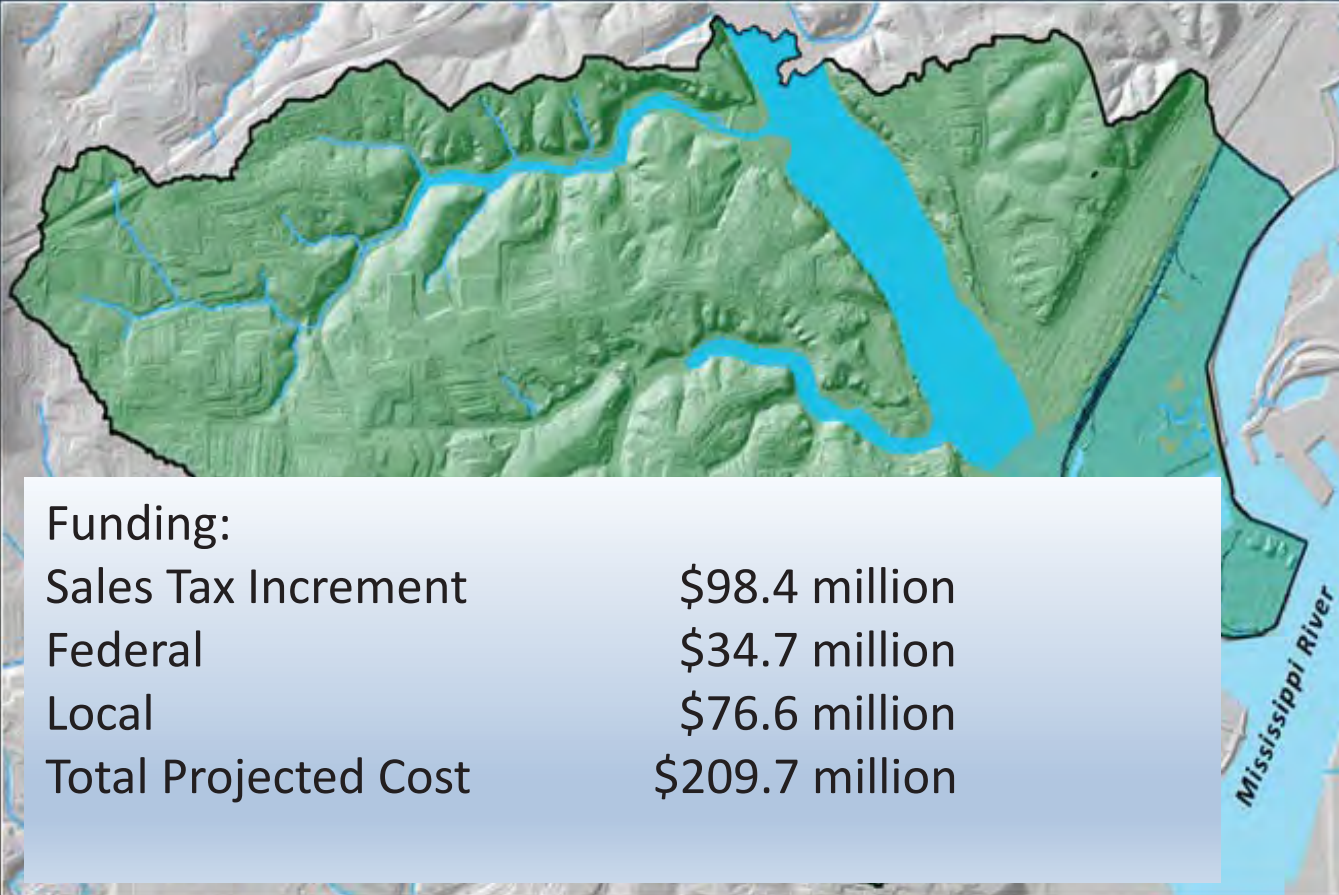
# City of Cedar Rapids Flood Mitigation Proposal



# Proposed Project

- ❑ Total Project Cost
  - ❑ \$570,430,000
- ❑ Total Tax Increment Financing Requested
  - ❑ \$263,773,000 (46% of total project cost)
- ❑ 20 Year Estimated Project Timeline
- ❑ Flood Mitigation Projects Already Completed
  - ❑ \$177,774,000
- ❑ Project Divided Into 9 Phases Totaling
  - ❑ 6.24 Miles of Levee and Floodwalls
  - ❑ 11 Pump Stations
  - ❑ 21 Roadway and Railroad Gate Closures
  - ❑ Elevation of a Bridge and Approaches

# Bee Branch Watershed Flood Mitigation Project



# Dubuque Bee Branch Flood Mitigation Project





# Iowa City Wastewater Treatment Plant Relocation Project

Flooding in the Summer of '08 rendered Iowa City's North Wastewater Treatment Facility (WWTF) nearly inoperable. Biological treatment and chemical disinfection was disabled for over 30 days.

Due to this flood event, wastewater that had undergone only a brief detention was released into the Iowa River.

Only the efforts of staff and volunteers prevented the total loss of the facility during the flood.

Relocating operations of the North Wastewater Treatment Plant, expanding flood capacity, and re-development of the existing site is vital to flood resilience and recovery.





# Iowa City Proposed Solution

- Relocate wastewater operations
  - Newer South Facility outside SFHA
  - Expected completion mid-2014
- Demolish North WWTF
  - Removal of all buildings / improvements
- Convert former North WWTF site to riverfront park and wetland
  - Create 5 acre wetland - expanded Flood Capacity
  - Stream bank restoration of confluence of Ralston Creek and Iowa River



*Current view of the North Plant*



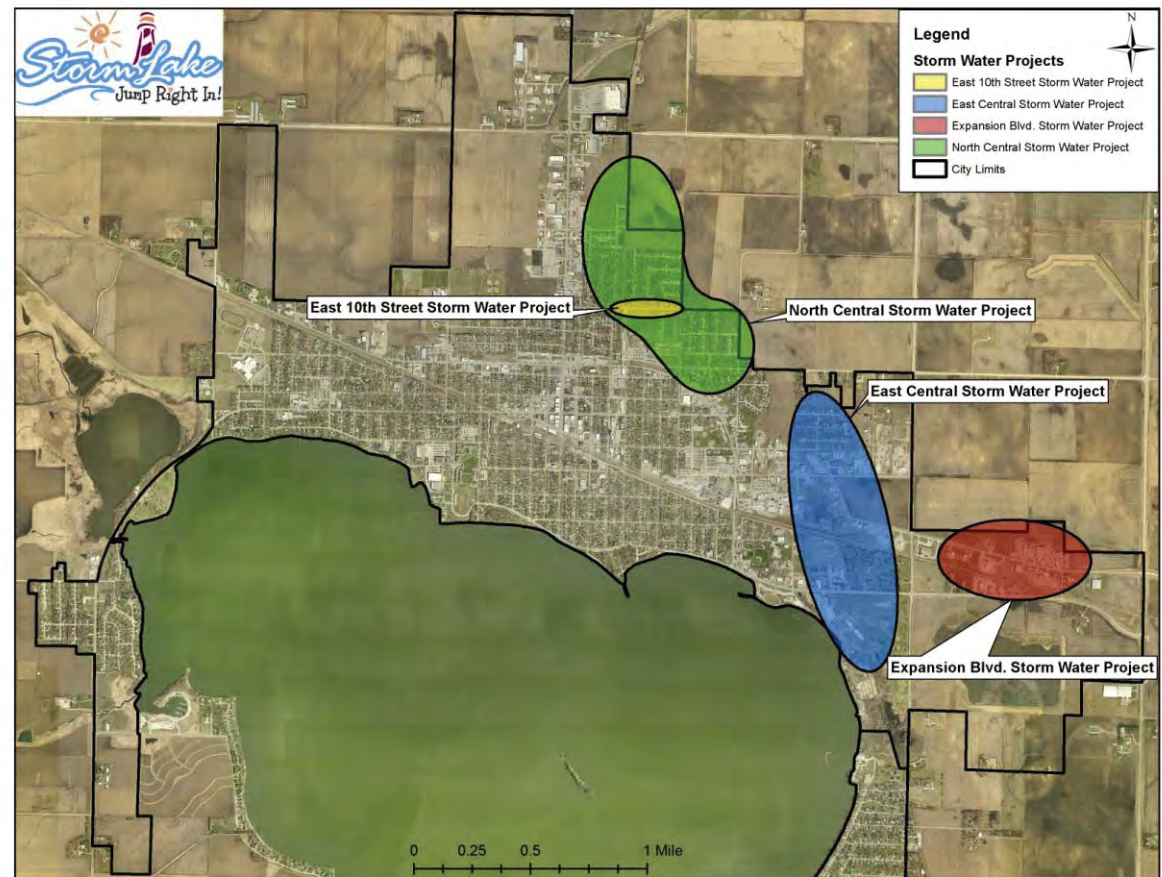
*Rendering showing the riverfront park.*



# City of Storm Lake Flood Mitigation Project



- Project involves 4 phases
  - Phase 1 –\$1,620,420.65
  - Phase 2 –\$2,675,000.00
  - Phase 3 –\$458,400.00
  - Phase 4 –\$1,587,468.22
  - Bonding Costs - \$1,824,831.97
- All projects relieve immediate flooding issues in low-moderate income neighborhoods, and commercial and industrial areas





# Storm Lake Phase 1 – East Central Storm Water Project

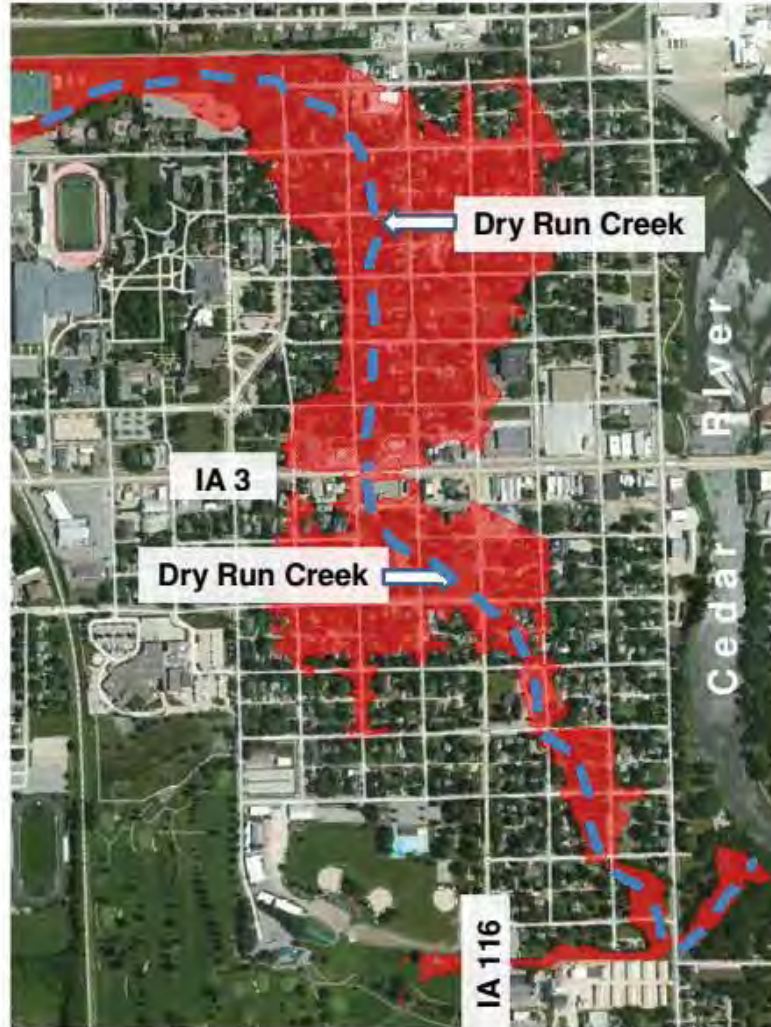


# Storm Lake Phase 1 Completion



# Dry Run Creek Improvements

Present  
2013 Flood Map



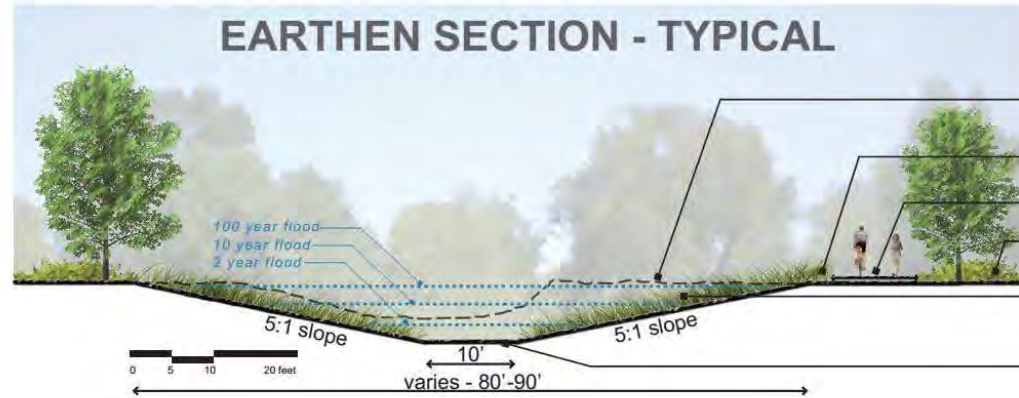
100-year floodplain mapping after the Cedar River Inflatable Dam project and before the Dry Run Creek flood mitigation improvements.

Proposed  
2016 Flood Map

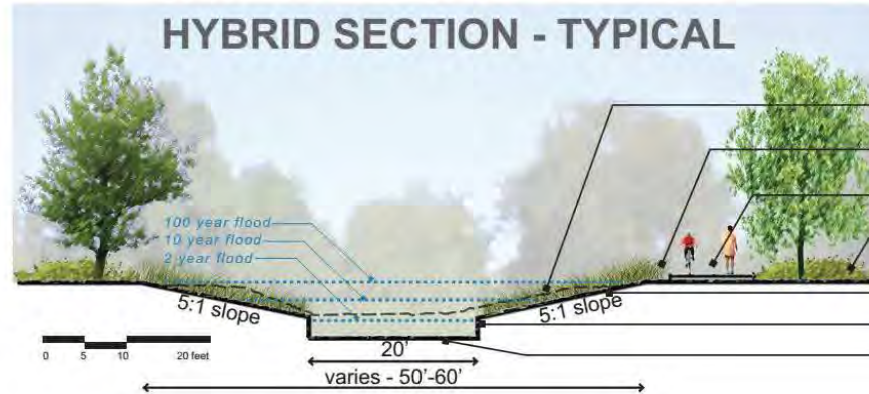


100-year floodplain mapping after the Cedar River Inflatable Dam project and after the Dry Run Creek flood mitigation improvements.

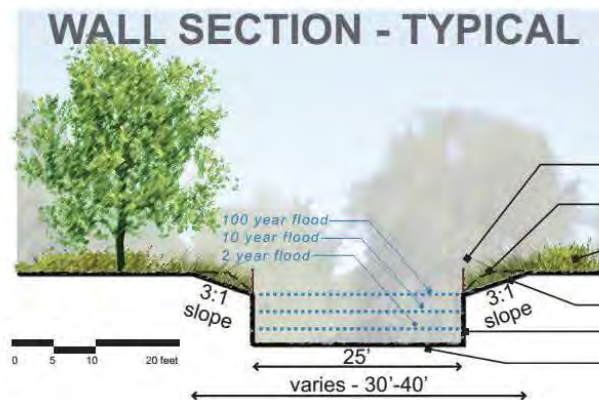
# DRY RUN CREEK IMPROVEMENTS - SECTION CONCEPTS



- approximate existing grade
- 3' clear zone
- 10' wide trail
- screen plantings (if appropriate)
- grass side slope
- concrete channel bottom



- approximate existing grade
- 3' clear zone
- 10' wide trail
- screen plantings (if appropriate)
- grass side slope
- vertical concrete wall - approx. 30" height
- concrete channel bottom



- railing - 3' height
- approximate existing grade
- screen plantings (if appropriate)
- grass side slope
- vertical concrete wall - approx. 6' height
- concrete channel bottom

## POTENTIAL TRAIL AMENITIES



**“Serving the Community Throughout the Seasons”**

**Waverly Flood  
Mitigation Improvements**

Inside This Report

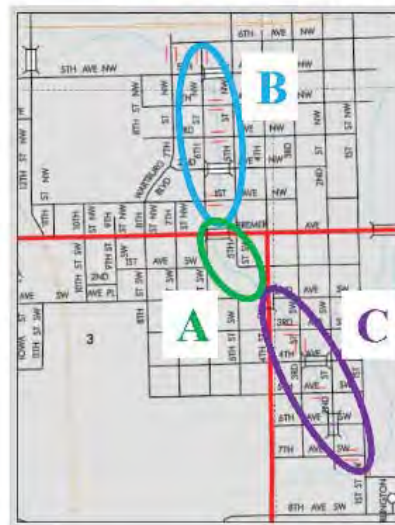
- ❖ Dry Run Creek Construction
  - 100% Complete
- ❖ Lower Flood Insurance Cost

**Dry Run Creek Construction – 100% Complete!**

**Construction Schedule**

The Dry Run Creek Improvements project was started in April 2015. Work was deemed substantially complete on August 29, 2016.

- Section A - 100% Complete
- Section B - 100% Complete
- Section C - 100% Complete





# Iowa Flood Mitigation Program

- Sales tax Increment: \$596 million
- Local/Fed. Funds: \$786 million
- Total Costs: \$1.4 billion
- Estimated Loss Avoidance: \$6.0 billion





# Contact Information

**John Benson**

**515-725-3208**

**[john.benson@iowa.gov](mailto:john.benson@iowa.gov)**

**Carol Tomb**

**515-725-9305**

**[carol.tomb@iowa.gov](mailto:carol.tomb@iowa.gov)**

**Iowa Homeland Security  
and  
Emergency Management Department**

**[https://www.homelandsecurity.iowa.gov/about\\_HSEMD/flood\\_mitigation\\_board.html](https://www.homelandsecurity.iowa.gov/about_HSEMD/flood_mitigation_board.html)**