

Burt Izard Lift Station Improvements

September 20, 2016



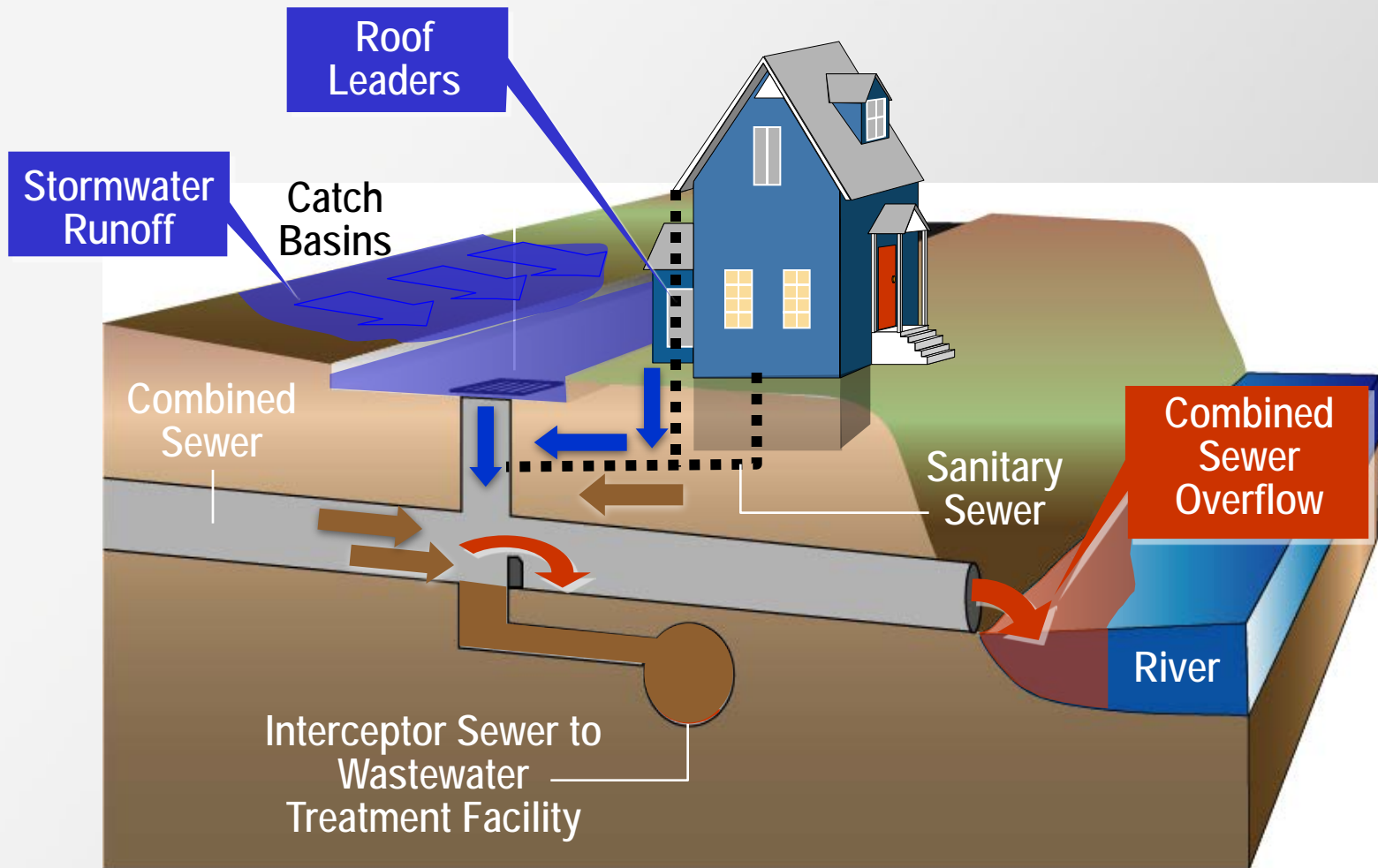
Challenges Facing Omaha



Opportunities & Benefits

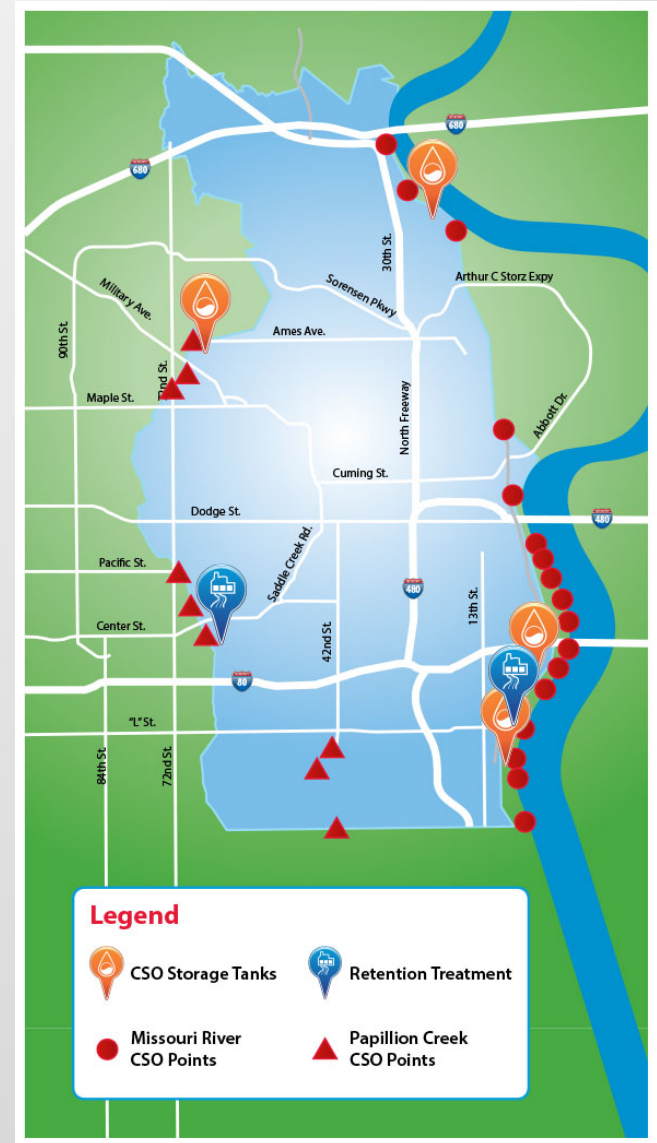
- Reduce overflows of raw sewage to our streams; improve water quality
- Continue our efforts to eliminate sewer backups into basements
- Replace aging sewer, gas, water and street infrastructure
- Urban revitalization and development

Wet weather inflows exceed the CSS capacity and trigger a CSO

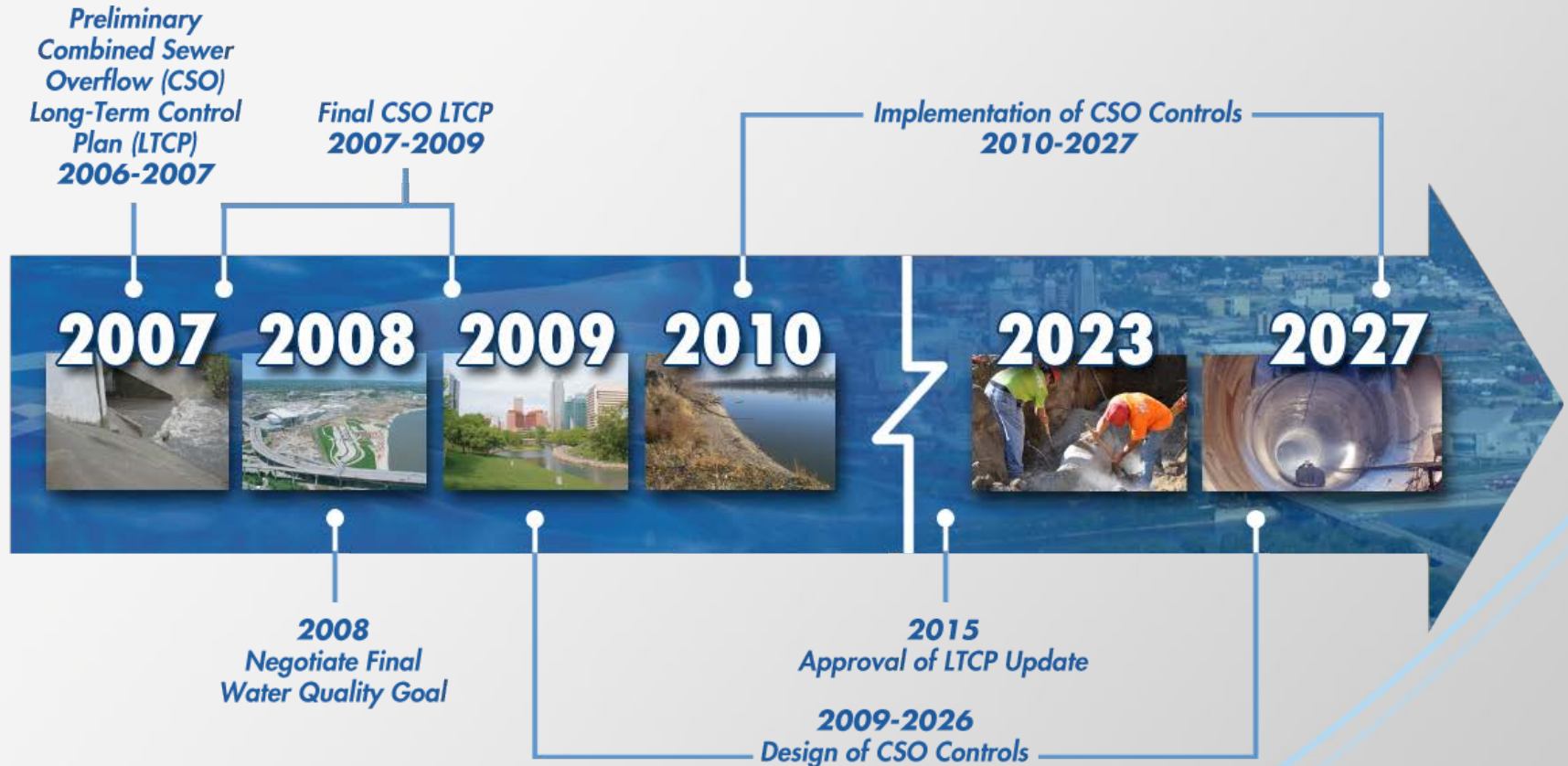


CSO Program Area

- 43 sq mi combined sewer area
 - 6,200 sq blocks
- 28 CSO outfalls
 - 9 to Papio Creek
 - 19 to Missouri River
 - 4 eliminated



New Consent Order Timeline



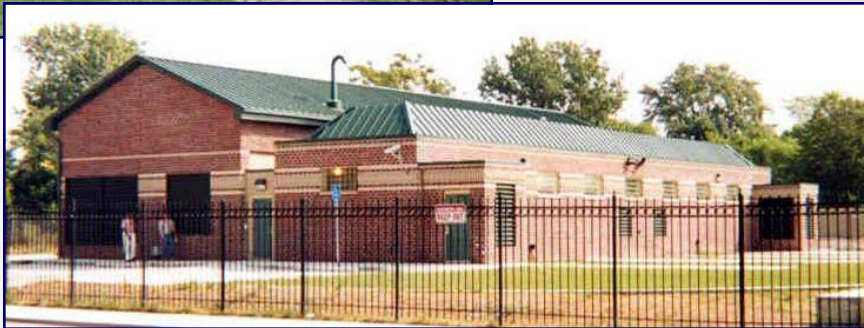


Long Term Control Plan

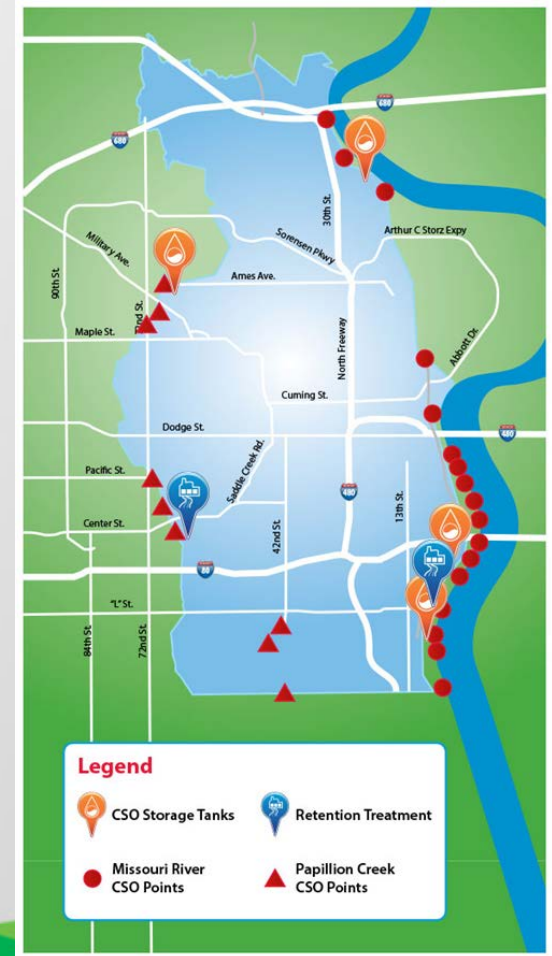
Major Elements of the Long Term Control Plan



Targeted Sewer Separation Projects



High Rate Treatment Facilities



Major Elements of Final Long Term Control Plan

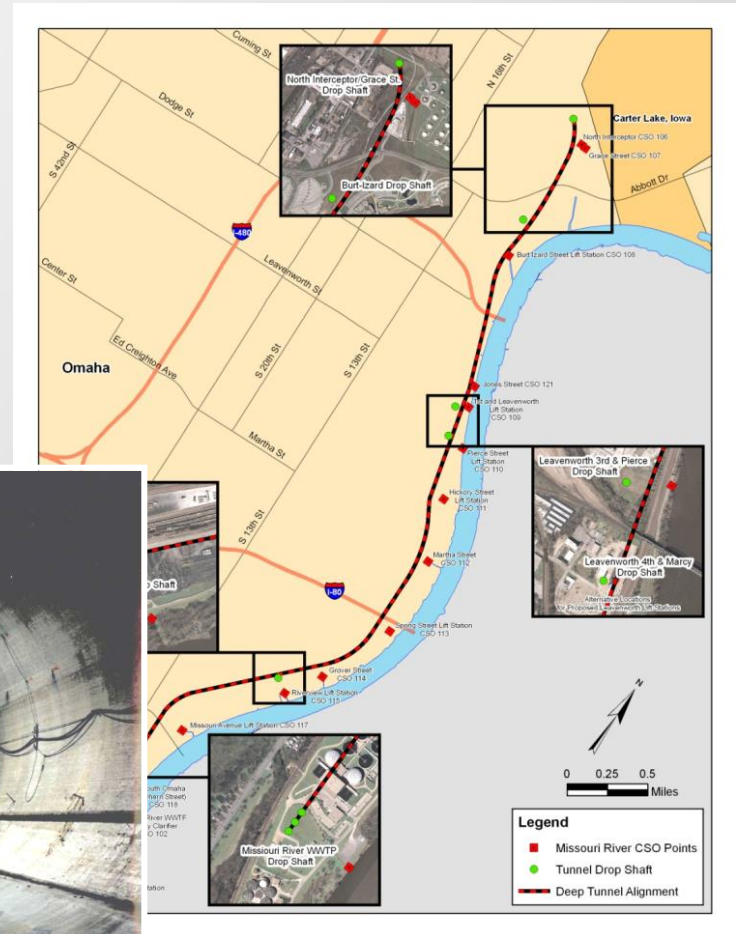
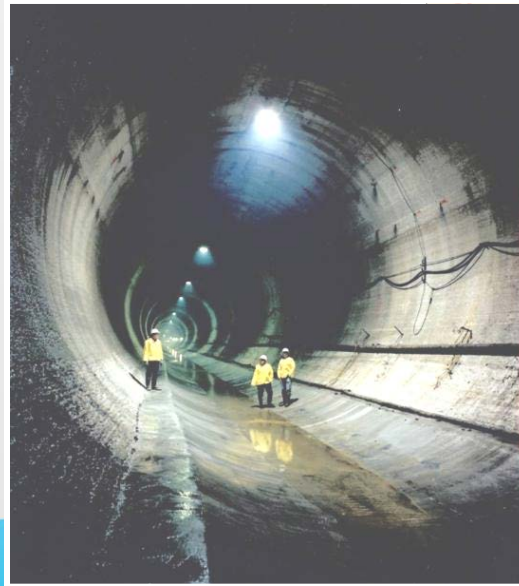


Underground Storage Tanks



CSO Controls: Tunnel

- Deep Conveyance Tunnel
 - Length: 5.4 miles
 - Diameter: 17 feet
 - Depth: 170 feet
 - Drop shafts: 5



Green Solutions



Adams Park Wetland Zones



LOWLAND GRASS



WETLAND MEADOW



EMERGENT WETLAND

Spring Lake Park



Syndicate Park 1920's

New Green Solution



Fontenelle Park



Saddle Creek Green Infrastructure





Program Funding

Funding the Program

Financed with 30-year bonds

Funded with sewer fees

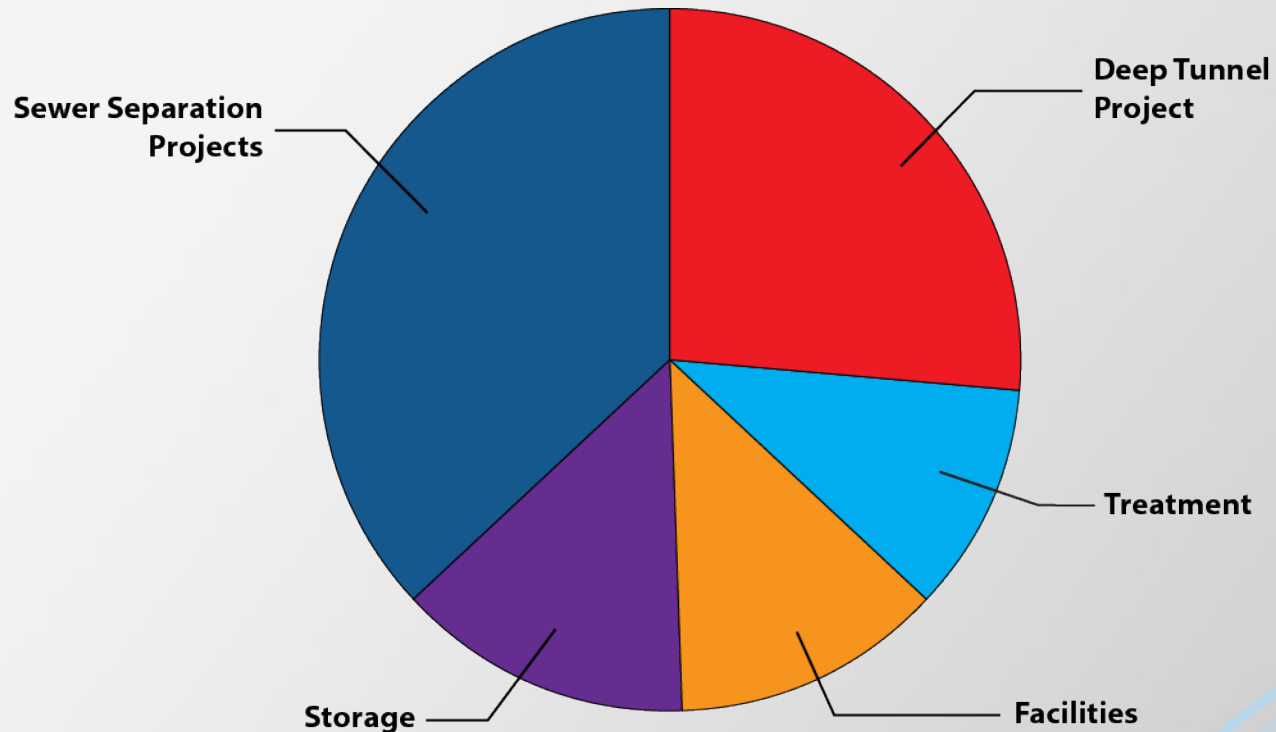
**All area
customers**

Contribute to the overflows

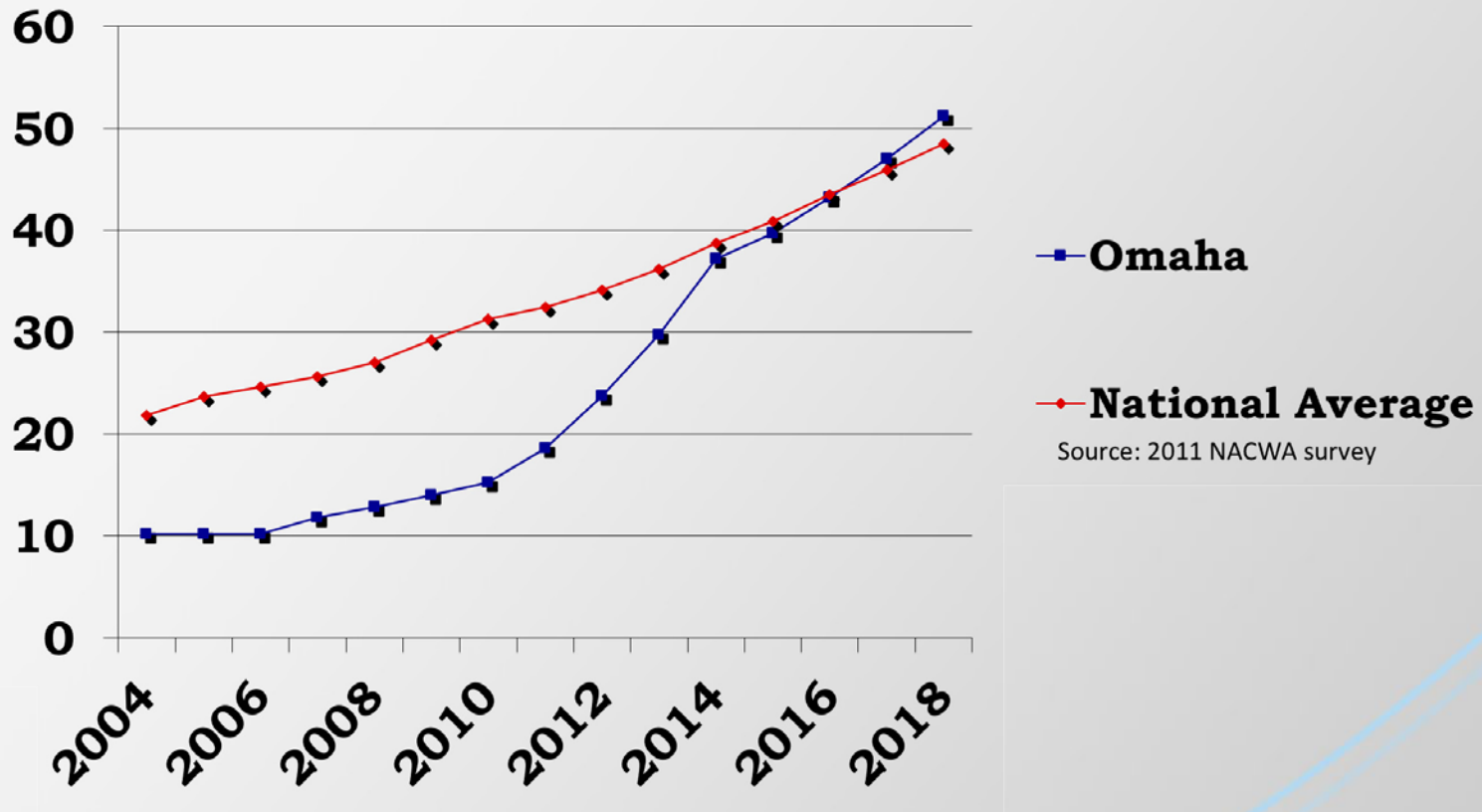
Benefit from improvements
to regional water quality

Will help fund the improvements

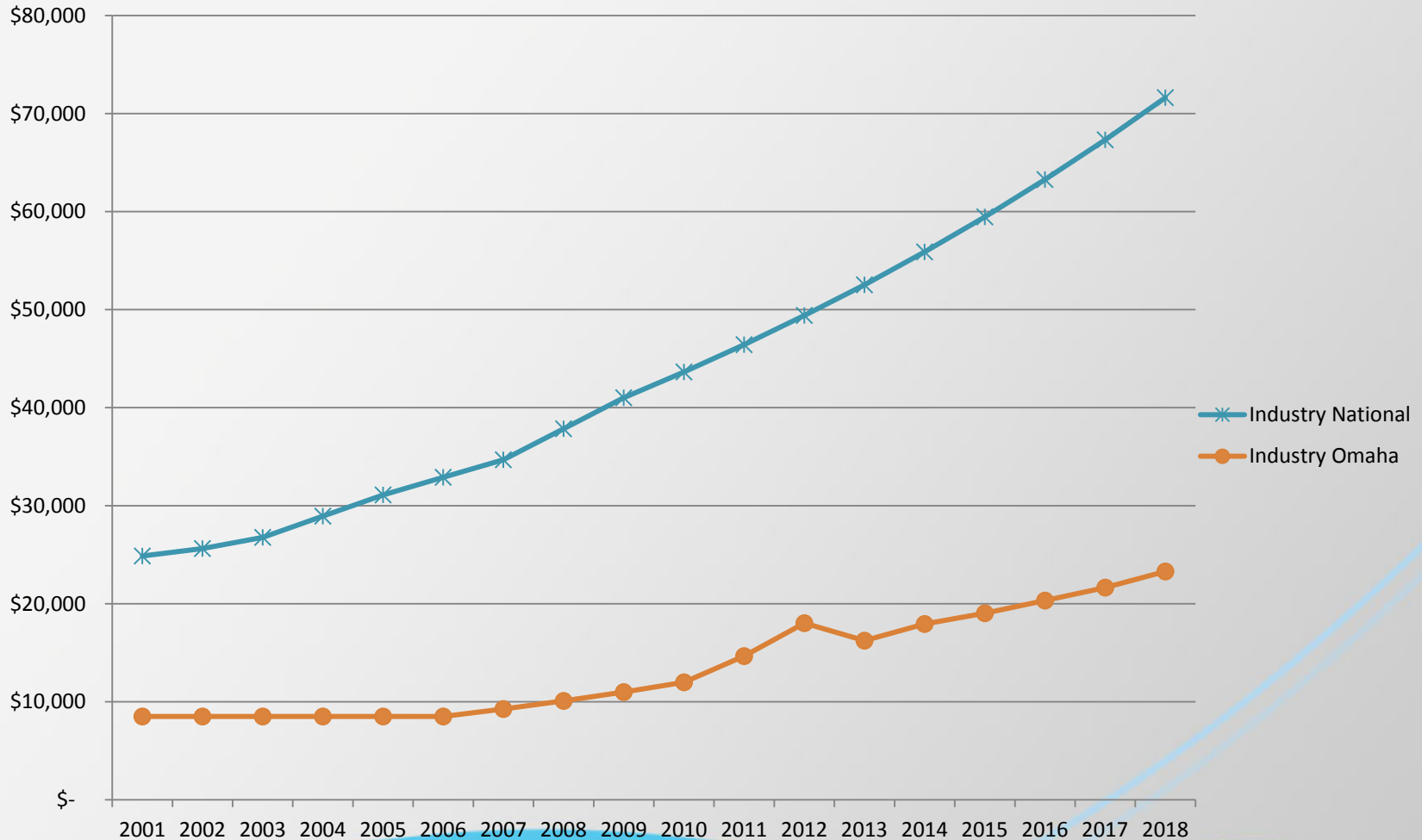
Program Costs 2015 Dollars \$2.2 Billion



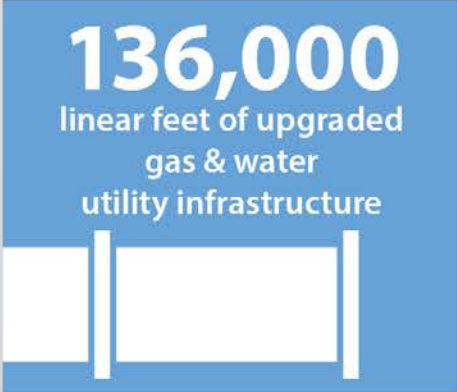
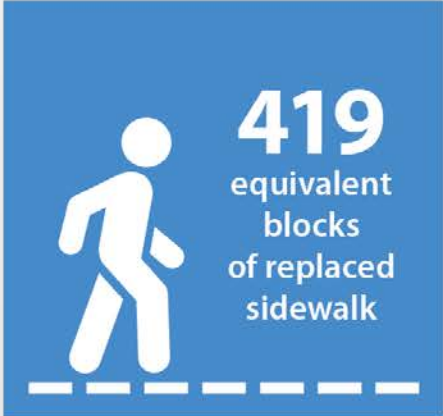
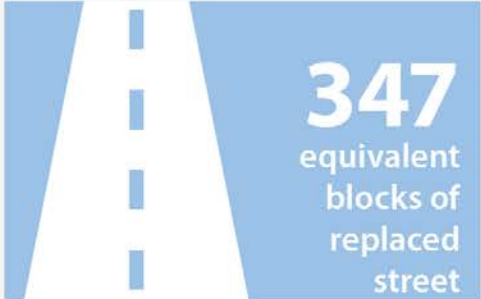
Average Residential Sewer Bills: Omaha vs. National Average



Average Industrial Sewer Bills: Omaha vs. National Average



CSO Public Benefits





**PROGRAM
BUDGET STATUS**
In 2015 dollars

2009

2027

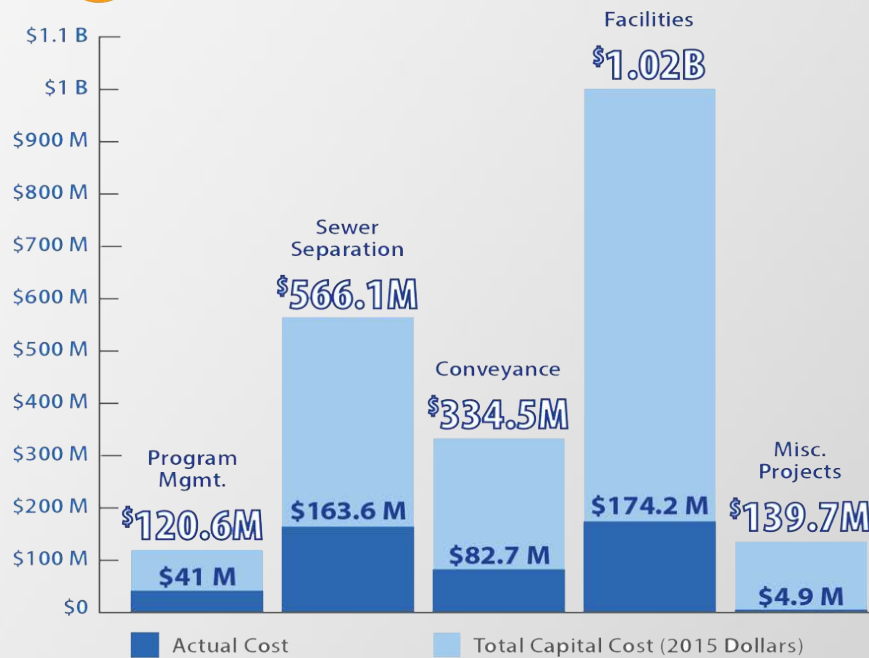


Spent to Date: **21.5%**

Estimated Complete: **22.4%**



**PROGRAM
CAPITAL ALLOCATION**





What is the Project?

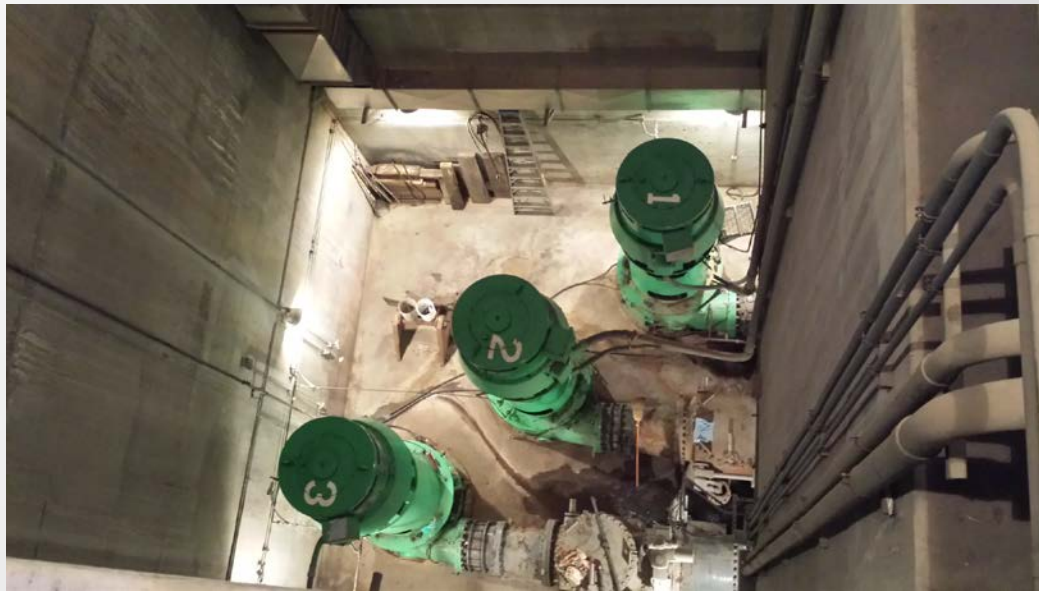
CSO!
Clean Solutions for Omaha

What is a Lift Station?



Project Purpose

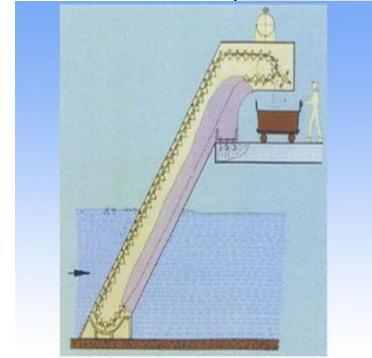
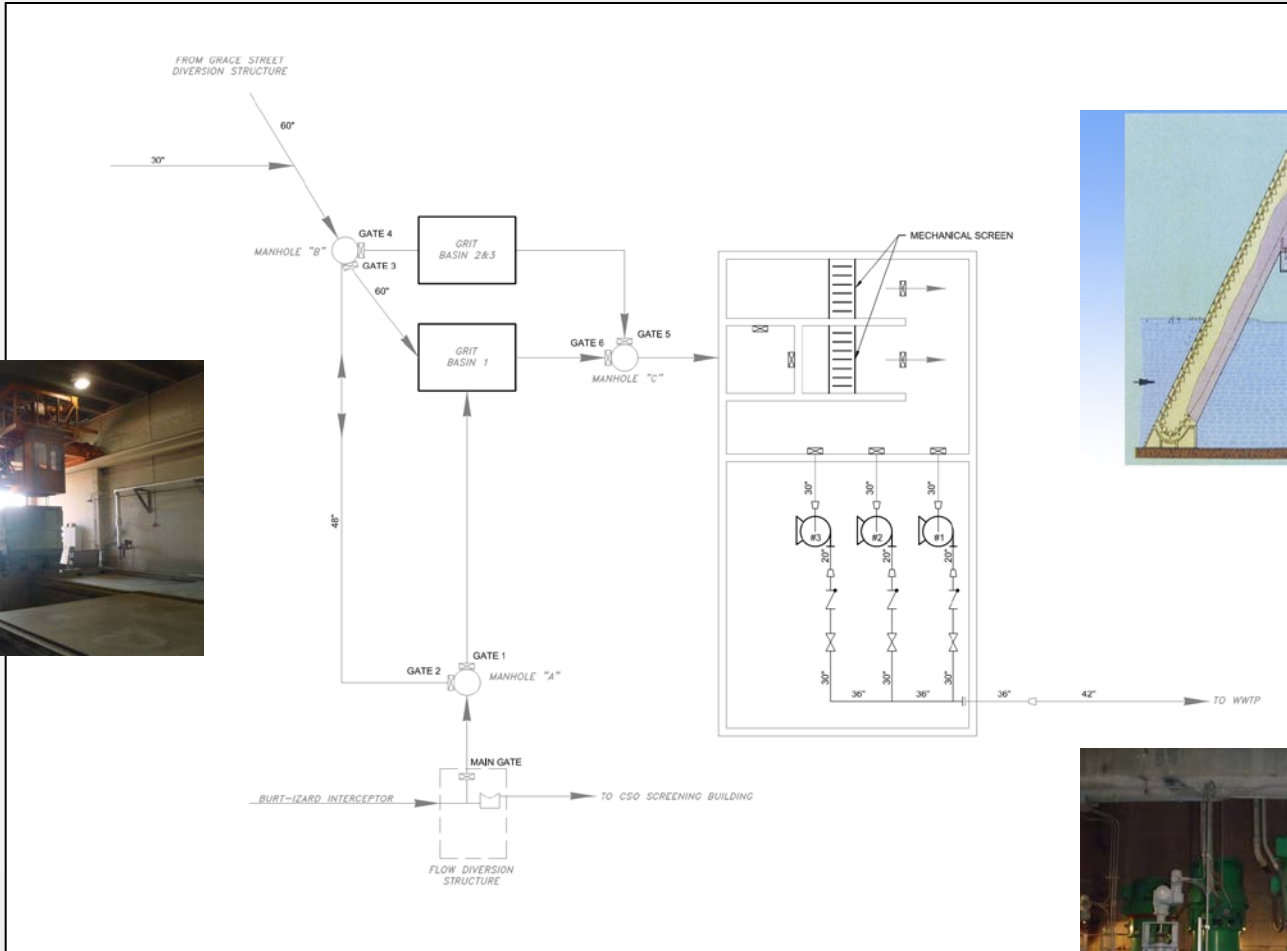
Increase volume of flow conveyed to the Missouri River Wastewater Treatment Plant in conjunction with the improvements to the South Interceptor Forcemain Project.



Scope of Work

- Flow improvements to the lift station
- Improvements inside the Grit Building
- New bar screens
- New pumps, piping, and valves
- Upgrades to the electrical power feed
- New electrical and controls inside the lift station

Burt Izard Lift Station



Site Location and Area of Work



Site Plan



New OPPD
Electrical Gear

Construction
Trailers

Grit Building

Bar Screen Room

Lift Station

Diversion
Structure

Construction
Laydown

What to Expect

- Most work inside facilities
- Electrical/transformer work
- Bypass Pumping
- Forcemain Tie-in
- Construction Deliveries



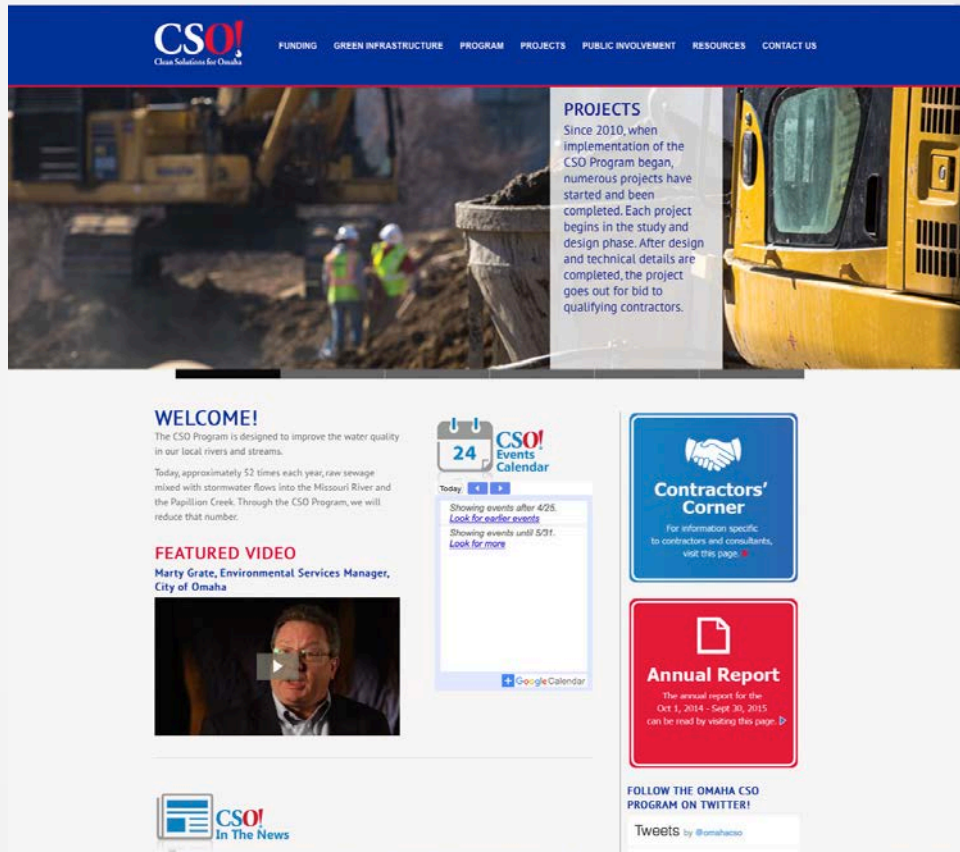
Burt Izard Project Schedule

Project Schedule

- Public Discussion: Fall 2016
- Design completion: Early 2017
- Bidding: Spring 2017
- Construction Begins: Summer 2017
- Construction Ends: Fall 2018

Website: www.OmahaCSO.com

CSO Hotline: 402-341-0235



The screenshot shows the Omaha CSO website homepage. At the top is a blue navigation bar with the CSO logo and menu items: FUNDING, GREEN INFRASTRUCTURE, PROGRAM, PROJECTS, PUBLIC INVOLVEMENT, RESOURCES, CONTACT US. Below the navigation bar is a large banner image of a construction site with a yellow excavator and workers. To the right of the banner is a 'PROJECTS' section with text: 'Since 2010, when implementation of the CSO Program began, numerous projects have started and been completed. Each project begins in the study and design phase. After design and technical details are completed, the project goes out for bid to qualifying contractors.'

WELCOME!
The CSO Program is designed to improve the water quality in our local rivers and streams.
Today, approximately 52 times each year, raw sewage mixed with stormwater flows into the Missouri River and the Papillion Creek. Through the CSO Program, we will reduce that number.

FEATURED VIDEO
Marty Grate, Environmental Services Manager, City of Omaha

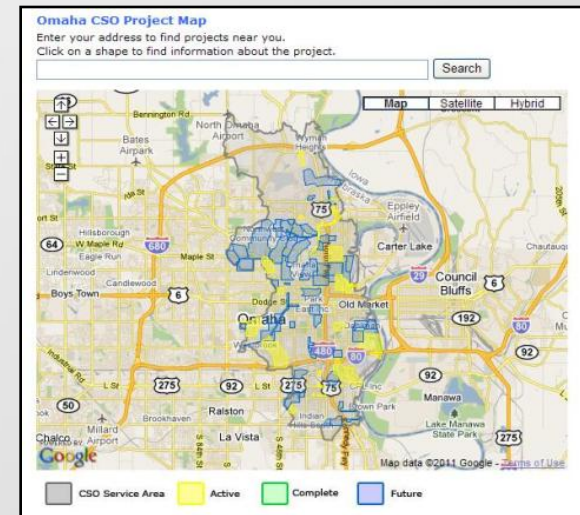
CSO! In The News

CSO! Events Calendar
Showing events after 4/25. Look for earlier events. Showing events until 5/31. Look for more.

Contractors' Corner
For information specific to contractors and consultants, visit this page.

Annual Report
The annual report for the Oct 1, 2014 - Sept 30, 2015 can be read by visiting this page.

FOLLOW THE OMAHA CSO PROGRAM ON TWITTER!
Tweets by @omahacso



The screenshot shows the Omaha CSO Project Map. It features a search bar at the top with the text 'Enter your address to find projects near you. Click on a shape to find information about the project.' Below the search bar are map controls for 'Map', 'Satellite', and 'Hybrid'. The map itself shows the Omaha area with various project locations marked by colored shapes: grey for CSO Service Area, yellow for Active, green for Complete, and blue for Future. A legend at the bottom left identifies these colors. The map data is attributed to ©2011 Google.

CSO Public Display



Questions & Discussion

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