

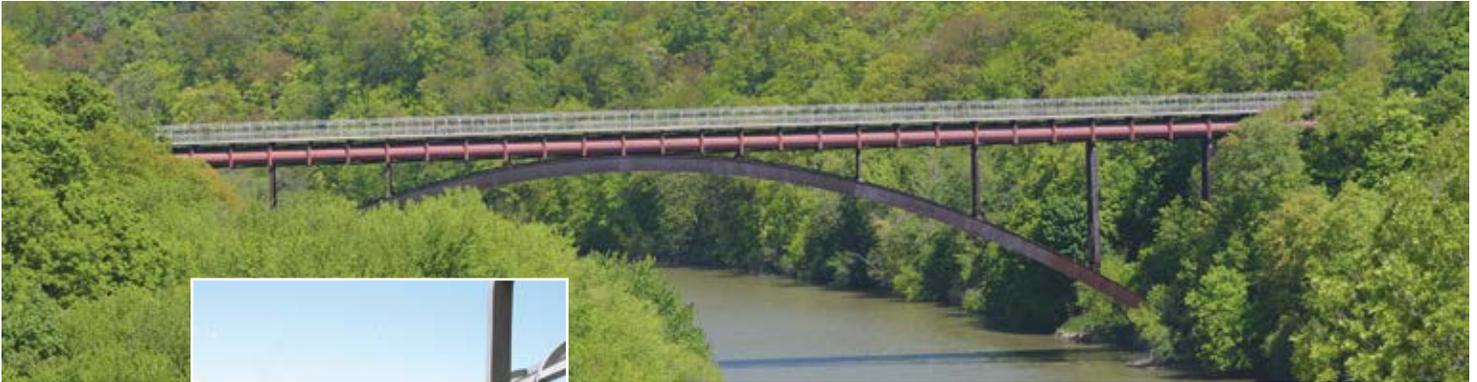


**Your Communities Trust You to
Resolve Your CSO Issues.**

We Can Help...

ERDMAN
ANTHONY 

Erdman Anthony has been successfully working with communities like yours for decades.



We Can Help You Too.

We're ready and waiting to put CSO solutions in place for municipalities across Florida, New York and Pennsylvania. In fact, we've already begun.

CSO Expertise in Action.

Here are some real-world examples of our CSO experience, specialized knowledge, and expertise.



The St. Paul Boulevard Tunnel System

In 1989, Erdman Anthony was contracted to design a solution in conjunction with the Combined Sewer Overflow Abatement Program (CSOAP) in Rochester, NY. The St. Paul Boulevard Tunnel System was the result.

Standing The Test of Time.

It's now been over 25 years since this solution went into effect. It is still operating as designed and has virtually eliminated the city's CSO problem. We are proud of our role in supporting river cleanliness in the community in which we work and live.

Our solution included:

- Engineering a bridge with twin arches that spans 475 feet over the Genesee River Gorge.
- Incorporating two 6-foot-diameter pipes that connect with Rochester's combined sewage and stormwater collecting system on the west side of the river and carry wastewater away to a new 3-mile siphon tunnel on the eastern side.
- The project was green ahead of its time. The structure was designed with the elevation required for gravity flow.



The Hertel Avenue Sewer Project

This project was part of an ongoing effort to separate storm and sanitary sewer systems in the city of Buffalo, NY.

Erdman Anthony's design included:

- Installation of almost a half-mile of 60" sewer and a quarter-mile of 36" RCP within the roadway of a heavy commercial district.
- Replacement of 23 storm receivers connected in the existing sewer system with new catch basins.
- 18-inch storm sewers at all side streets to facilitate future sewer separation projects.
- Roadway restoration, driveway and sidewalk restoration, and lawn restoration.
- Installation of the new sewer below a vintage 1900s 36-inch-diameter water main that serviced all of North Buffalo.
- Construction inspection and construction administration services.

The result of this project? A higher level of service—reducing the potential for basement flooding and sewer surcharges.



Batavia and Byron Sewer Projects

Erdman Anthony provided survey, mapping, design, and construction-support services to the towns of Batavia and Byron, NY, for improvements to their Sanitary Sewer District #1.

The project included:

- Replacement of two lift stations with a single consolidated lift station (150,000 gpd).
- Installation of 4,720 feet of 8-inch gravity sewer main, 1,680 feet of 12-inch gravity sewer main, and 4,690 feet of new 8-inch sewer High-Density Polyethylene (HDPE) force main.
- Selection of a duplex pump arrangement.
- Design of a separate control building and a full standby power generator.
- Design and layout of the new station and gravity piping.



Creative Solutions for CSO Issues

Experience with Special Structures

Erdman Anthony has the specialized expertise to deal with complex aspects of CSO solutions. This includes:

- Installation of vortex chambers and sanitary sewer collection systems along several miles of roadway in East Aurora, NY.
- Incorporation of a flume in our design solution for expanding the capability of Buffalo's Hertel Avenue storm sewer system.
- Modification to weirs to regulate stormwater flows throughout the City of Buffalo.

Big-Diameter Pipes

Water transmission and sewer collection requiring big pipes have been Erdman Anthony specialties for decades. Our specialized expertise has included:

- Designing and supervising installation of 3,000 feet of 60-inch gravity storm sewer line.
- Replacing 100-year-old cast iron sewer line with new 16-inch Ductile Iron Pipe (DIP) and installing new 36-inch DIP and appurtenances.

Let us help you next. Don't wait—get a jump on your CSO issues by putting our proven solutions to work for you.

Contact me for more information.

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