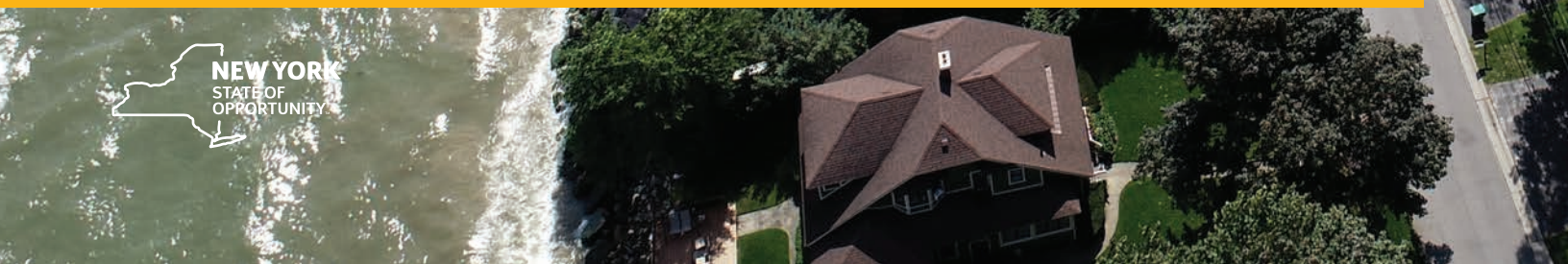




Project Profiles for Monroe Region

Other Planning Committee Projects – Public



ICONS/ACRONYMS FOR MONROE REGION

-  Project location
-  Project owner
-  Approximate cost

Acronym	
ft	Feet
LF	Linear Feet
NTS	Not to Scale
USACE	United States Army Corps of Engineers

BRADDOCK BAY BARRIER BEACH

In 2018, the United States Army Corps of Engineers (USACE) completed construction of the barrier bar at the entrance of Braddock Bay Barrier Beach to dissipate wave energy and protect wetland areas within the bay. Materials to construct the barrier bar were dredged from the bay resulting in deeper channels for boat traffic. Portions of the barrier bar are in risk of being submerged during high water, creating a navigational hazard.



Town of Greece,
Monroe County



Town of Greece



625,000



Braddock Bay Barrier Beach

Mitigation Measures

Proposed mitigation measures in the project will consist of:

- Raising the height of the barrier bar to a level that will be above water under all flood conditions to be visible to boaters and continue to dissipate wave energy
- Green coastal and natural and nature-based alternatives were identified and are under consideration

Public Support and Asset Owner

Public support is moderate. The project will provide the most benefit to recreational boaters. The asset owner is public.

Permitting and Feasibility

Multi-jurisdictional permit review is needed.

Benefits

The proposed improvements will provide additional protection for residences in the Braddock Bay area and reduce a navigational hazard during high water levels so that the barrier bar is not submerged.

Flexibility

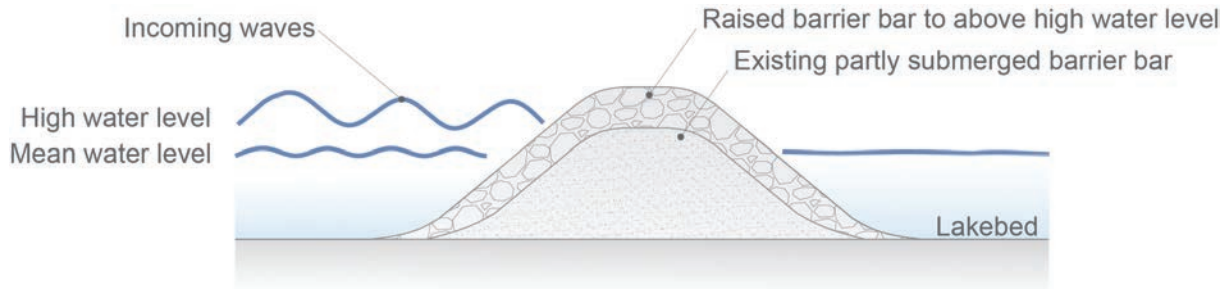
While the configuration of the barrier bar is fixed, design height and materials of construction have yet to be determined.

Durability

The proposed project will have a design life of 100 years or more.

Economic Development Potential

When completed, this project will further enhance recreational boating within Braddock Bay, including the substantial investment made by the town in the Westpoint Marina.



Raised barrier bar (Principle sketch, NTS)

Environmental Considerations

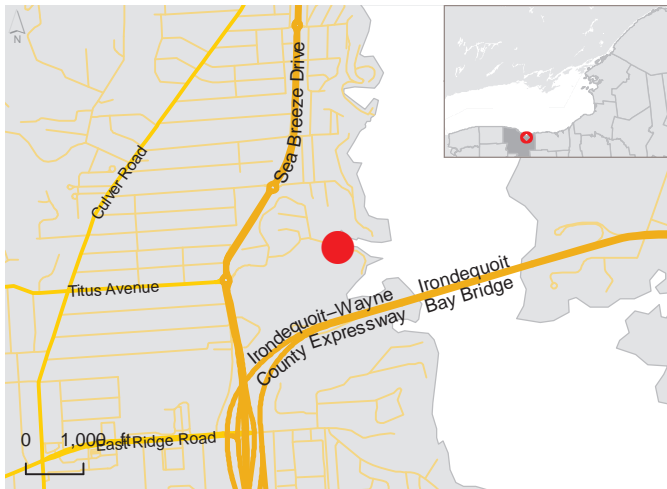
The project will avoid adverse environmental impacts.


Alternatives Considered


No action.


SHORE DR.

This project seeks to protect an existing residential road from further flood damage on the west side of Irondequoit Bay. This segment of the road is close to Irondequoit Bay and the proximity of the water could undermine the road's foundation and possibly cause the road to fail during a high water level situation. The project addresses a short section of the road, approximately 100 linear feet (LF), that is subject to flooding.



 Town of Irondequoit,
Monroe County

 Town of Irondequoit

 425,000



Mitigation Measures

Proposed mitigation measures in the project will consist of:

- Removing the existing wooden barrier and installing shoreline stabilization measures and raising 100 LF roadway by 1 to 2 ft

Public Support and Asset Owner

Public support is moderate. The asset owner is public.

Permitting and Feasibility

This project is considered moderately to highly feasible. The project includes widely accepted practices that have proven successful. Construction will be located partially in the water. Multi-jurisdictional permit review is needed.

Benefits

The project will ensure that Shore Dr. is protected from washout due to high water.

Flexibility

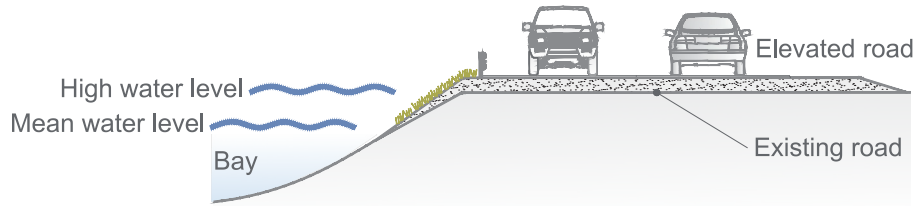
The proposed shoreline stabilization measure will be designed to be expandable (vertically and horizontally) as needed in the future.

Durability

The design of the project will aim to be as durable as economically possible. The design life will depend on materials and methods selected for construction.

Economic Development Potential

The proposed project would preserve property values by decreasing vulnerability.



Elevation of road (Principle sketch, NTS)

Environmental Considerations

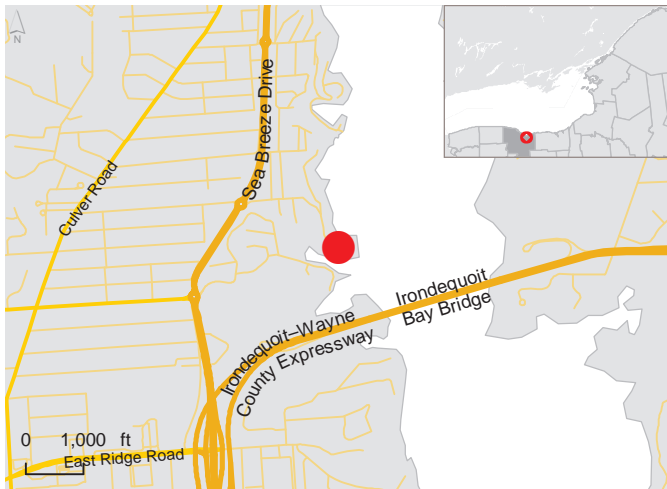
Installation of these measures will protect the shoreline and prevent erosion. Appropriate erosion and sediment control practices will be utilized during construction to limit impacts.


Alternatives Considered


No action.


SENECA RD.

This project seeks to protect a public road serving a residential area and a local yacht club on the west side of the Irondequoit Bay. This segment of the road is located close to Irondequoit Bay and the proximity of the water could undermine the road foundation and possibly cause the road to fail during a high water level situation. The project addresses a short section of the road, approximately 200 LF, that is subject to flooding.



 **Town of Irondequoit,
Monroe County**

 **Town of Irondequoit**

 **650,000**



Mitigation Measures

Proposed mitigation measures in the project will consist of:

- Removing the existing wooden barrier and installing shoreline stabilization measures and raising 200 LF of the roadway by 1 to 2 ft

Public Support and Asset Owner

Public support is moderate. The asset owner is public.

Permitting and Feasibility

This project is considered moderately to highly feasible. The project includes widely accepted practices that have been proven successful. Construction will be located partially in the water. Multi-jurisdictional permit review is needed.

Benefits

The project will ensure that Seneca Rd. is protected from washout due to high water.

Flexibility

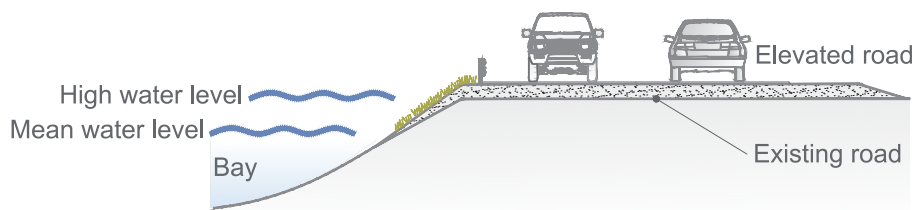
The proposed shoreline stabilization measures will be designed to be expandable (vertically and horizontally) as needed in the future.

Durability

The design of the project will aim to be as durable as economically possible. The design life will depend on the materials and methods selected for construction.

Economic Development Potential

The proposed project would preserve property values by decreasing vulnerability.



Elevation of road (Principle sketch, NTS)

Environmental Considerations

Installation of shoreline stabilization measures will protect the shoreline and prevent erosion. Appropriate erosion and sediment control practices will be utilized during construction to limit impacts.

Alternatives Considered

No action.

ROCK BEACH RD. HOMES

This project seeks to address reoccurring flooding that occurs on residential property between Rock Beach Rd. and Lake Ontario during high water events. During storm events, the water surface elevation is too high for stormwater to flow freely through the outfall by gravity, and storm sewers back up into neighboring properties.



Town of Irondequoit,
Monroe County



Town of Irondequoit



163,000



Rock Beach Rd. homes

Mitigation Measures

Proposed mitigation measures in the project will consist of:

- Constructing a stormwater chamber along each of the three existing outfall pipes; the chamber will consist of an operable bulkhead/gate for isolating the outfall pipe, a trash rack to prevent debris from flowing into the chamber, and piping for pumping retained stormwater to the lake
- During storm events, the gate will be closed, and the existing outfall pipe will be bypassed by pumping stormwater directly to the lake

Public Support and Asset Owner

Public support is high. Although few stakeholders are involved, this project has been in the planning stage for a few years and is supported due to the simplistic nature of the effort and anticipated immediate results during high water periods. The asset owner is public.

Permitting and Feasibility

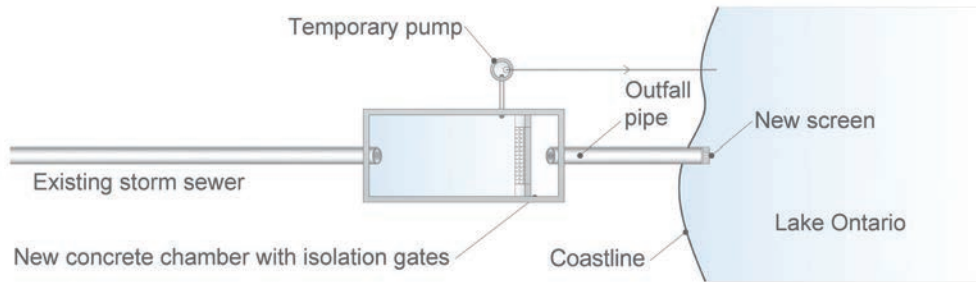
This project is highly feasible due to easy access, low maintenance, and homeowner support. Multi-jurisdictional permit review is needed.

Benefits

Improvements to the existing storm sewer infrastructure and the ability to pump retained water to the lake would aid in resolving flooding issues that cause damage to private property in the area. If flooding continues, numerous homeowners will experience sewer backup and ponding on their properties, both of which can pose serious health concerns. The proposed improvements protect homeowners and reduce the potential for future issues.

Flexibility

Elements of this project can be easily adjusted to reduce disruption to private property.



New stormwater chamber (Principle sketch, NTS)

Durability

The proposed chamber and flow devices will be of robust construction and designed with a lifespan of at least 30 years. The proposed trash rack would be manually cleaned and stainless steel or galvanized construction.

Economic Development Potential

By reducing risk of flooding, this project will preserve property values and minimize damage to homes.

Environmental Considerations

Construction of the improvements will result in minimal temporary impact to the surrounding area. When completed, stormwater backups into yards and basements will be reduced.

Alternatives Considered

No action; temporary bulkhead in storm sewers with suction pipes.

LAKEFRONT AND ROCK BEACH HOMES

Homes located adjacent to the lakefront north of St. Paul Blvd. are affected during flood conditions. The existing topography forms a basin that holds water, resulting in saturation of soils adjacent to the homes. This project will provide infrastructure to collect the water, providing a low spot to install a temporary pump and convey water out of the basin.



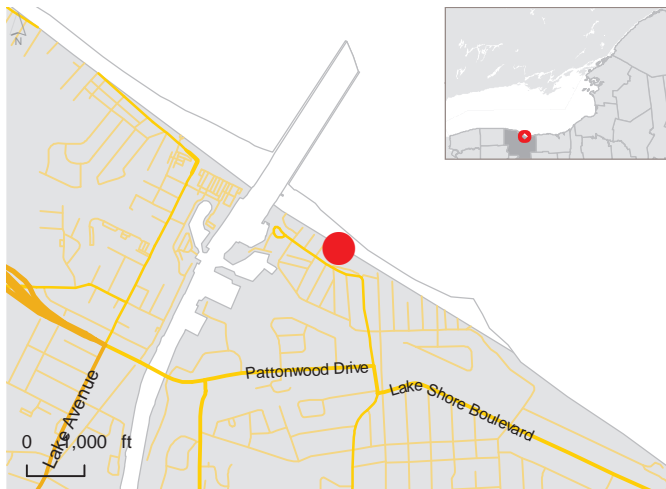
Town of Irondequoit,
Monroe County



Town of Irondequoit



101,000



Mitigation Measures

Proposed mitigation measures in the project will consist of:

- Installing approximately 1,000 LF of eight to 12-inch diameter pipe, drain inlets, and manhole for temporary pump suction location

Public Support and Asset Owner

Public support is moderate. This is a low impact project that will protect 12 homes. The asset owner is public.

Permitting and Feasibility

A majority of the work will take place in an existing right-of-way. Access to additional properties will be necessary for the installation of piping and as a pathway for temporary pump discharge. Multi-jurisdictional permit review is required.

Benefits

The proposed storm sewer will provide the means for draining water away from residences.

Flexibility

The size, location, and overall features of the stormwater collection system are fully scalable and easy to modify as the water management requirements in the area evolve over time.

Durability

The proposed project will have a design life of more than 30 years.

Economic Development Potential

When completed, this project will protect the property values of the affected homes.



Environmental Considerations

The project will avoid adverse environmental impacts. However, it is likely that some work will take place within wetlands and/or waters.

Alternatives Considered

No action.

