

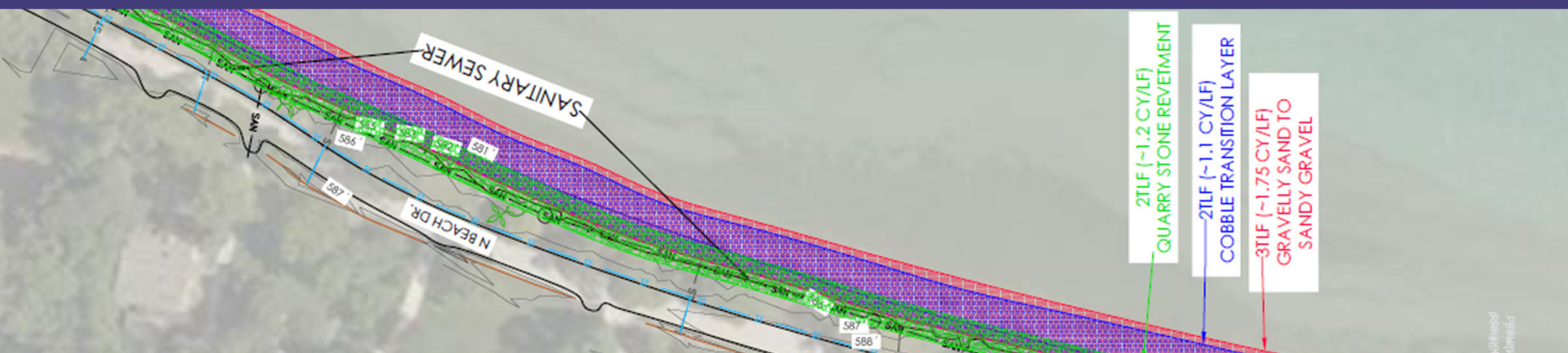


Hazard Mitigation: Risk Reduction in Fox Point, WI

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Current as of: April 21, 2023





What is Hazard Mitigation?

Any action taken to reduce or eliminate the long-term risk to life and property.

It breaks the disaster-repair cycle.





Value of Mitigation



For every **\$1 spent** on mitigation,
\$6 is saved in future damages.

- National Institute of Building Sciences, 2019

Data Source:

National Institute of Building Sciences "Mitigation Saves" Report, 2019

<https://www.nibs.org/projects/natural-hazard-mitigation-saves-2019-report>



FEMA Grant Programs



Hazard Mitigation Grant Program



Flood Mitigation Assistance



Building Resilient Infrastructure and Communities (2020 and beyond)



Pre-Disaster Mitigation (ended 2019)



Hazard Mitigation Grant Program (HMGP)



- Only available after a federal disaster declaration
- All-hazards program to reduce risk
- Funding available statewide, not just in disaster area
- 20% of federal funds allocated for FEMA's Public and Individual Assistance programs
- 75% FEMA / 12.5% WEM / 12.5% local match

Acronyms:

FEMA: Federal Emergency Management Agency

HMGP: Hazard Mitigation Grant Program

WEM: Wisconsin Emergency Management



Flood Mitigation Assistance (FMA)



- Annual, national competition
- Funded by an appropriation from Congress
- Flood mitigation only and must directly benefit NFIP-insured structures; priority given to properties with repetitive claims
- 75% FEMA / 25% local match
 - 90% FEMA / 10% for Repetitive Loss
 - 100% FEMA for Severe Repetitive Loss

Acronyms:

FMA: Flood Mitigation Assistance

NFIP: National Flood Insurance Program



Building Resilient Infrastructure and Communities (BRIC)



- Started in FY2020
- All-hazards; annual, national competition
 - Also includes a state, territorial, and Tribal set-aside allocation
- Funded by 6% auto-calculation of DRF
- Congressional appropriation, changes yearly
- 75% FEMA / 25% local match
 - 90% FEMA / 10% local match for Economically Disadvantaged Rural Communities

Acronyms:

BRIC: Building Resilient Infrastructure and Communities

FY: Fiscal Year; Federal FY starts in October

DRF: Disaster Relief Fund



Pre-Disaster Mitigation (PDM)

- Legacy program; last official year was FY2019
 - All-hazards; annual, national competition
 - Funded by an appropriation from Congress
- Now funded only through Congressionally Directed Spending
- 75% FEMA / 25% local match
 - 90% FEMA / 10% local match for small, impoverished communities

Acronyms:

PDM: Pre-Disaster Mitigation



HMA Project Applications



- FEMA frontloads requirements
 - Full scope of work
 - Cost estimates with documentation
 - Engineering/design
 - Pass a Benefit Cost Analysis (BCA)
 - Pass a FEMA/WEM environmental and historic preservation review
 - Non-federal share (match) commitment
- Community must be the applicant
 - Must participate in the National Flood Insurance Program
 - Must participate in and adopt a local hazard mitigation plan

Acronyms:

BCA: Benefit Cost Analysis



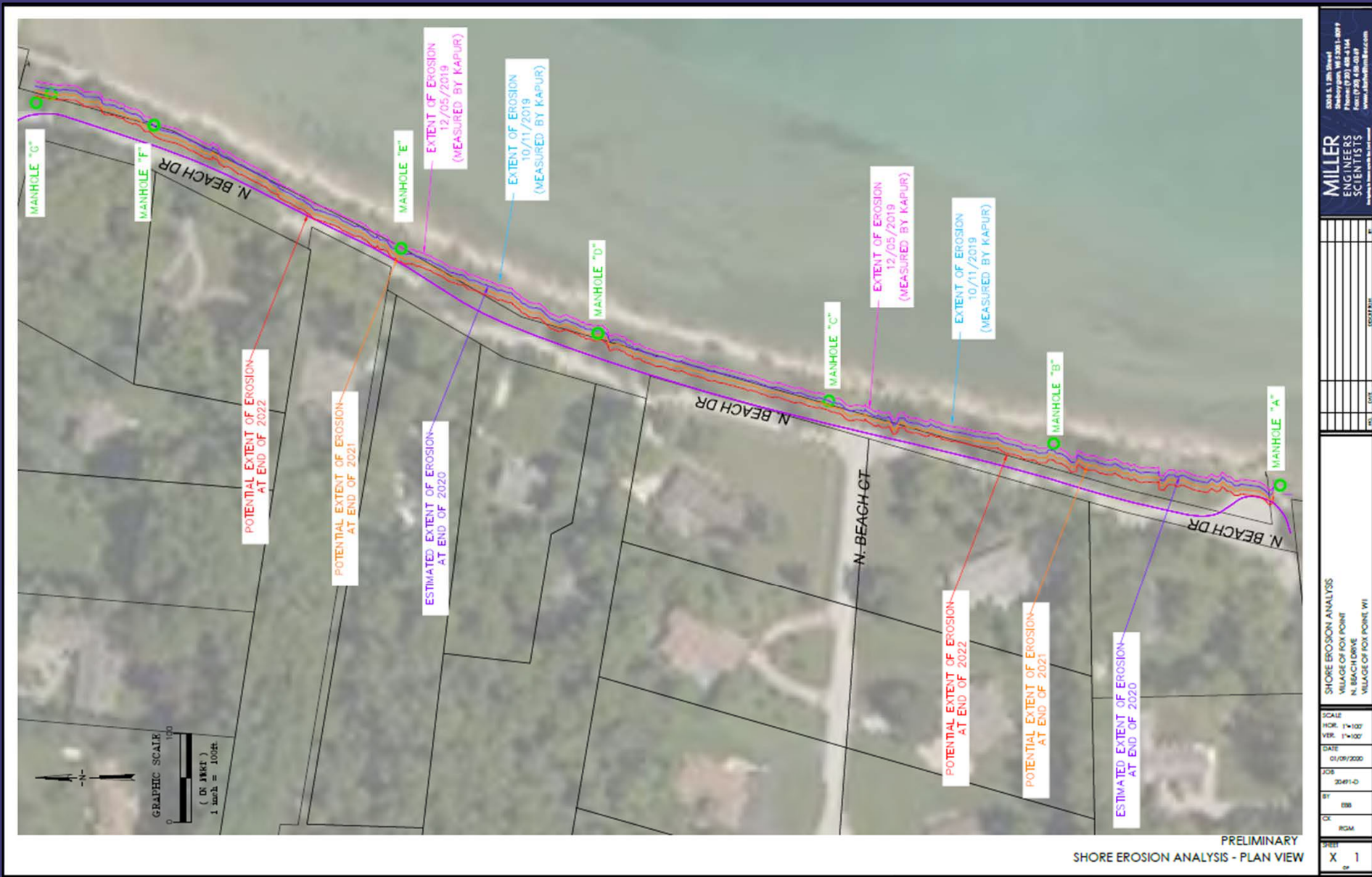
Fox Point Resilient Infrastructure



- Project proposed due to erosion on Beach Drive – threatened roads, utilities, homes
- Application: Benefit Cost Analysis
 - Project cost & ongoing maintenance costs
 - Engineering report showing estimated erosion rate and impacts
 - Estimated repair/replacement costs for structures and infrastructure
 - Loss of service of water & wastewater
 - Loss of service of road:
 - Detour route
 - Single access point for homes



Fox Point Resilient Infrastructure



Data Source:



Fox Point Resilient Infrastructure



- Application: Environmental/Historic Preservation Review
 - Wetlands
 - Endangered resources
 - Previous contamination
 - Historic/Cultural sites/structures
 - Environmental justice & public notice
- This project inspired FEMA to initiate a "Programmatic Environmental Assessment for Great Lakes Shoreline Stabilization Projects"
 - Streamlines review for wetlands, floodplain management, and environmental justice



Fox Point Resilient Infrastructure



FEMA

Draft Programmatic Environmental Assessment for Great Lakes Shoreline Stabilization Projects

The Department of Homeland Security's Federal Emergency Management Agency (FEMA) requests public comment on the draft Programmatic Environmental Assessment (PEA) for shoreline stabilization measures (proposed action) on the Great Lakes in the States of Minnesota, Wisconsin, Illinois, Indiana, Michigan, and Ohio. The PEA will evaluate shoreline stabilization measures eligible for FEMA grant funding. This notification is provided pursuant to the National Environmental Policy Act (NEPA) of 1969, FEMA's implementing procedures (44 CFR Part 9 and FEMA Directive 108-1), and applicable environmental laws, including Executive Orders 11990 (Protection of Wetlands), 11988 (Floodplain Management), and 12898 (Environmental Justice). The PEA has been prepared to evaluate the potential impact of the proposed project on the human and natural environment in accordance with NEPA. The public; local, state, tribal, and federal agencies; and other interested parties are invited to provide comments on the draft PEA.

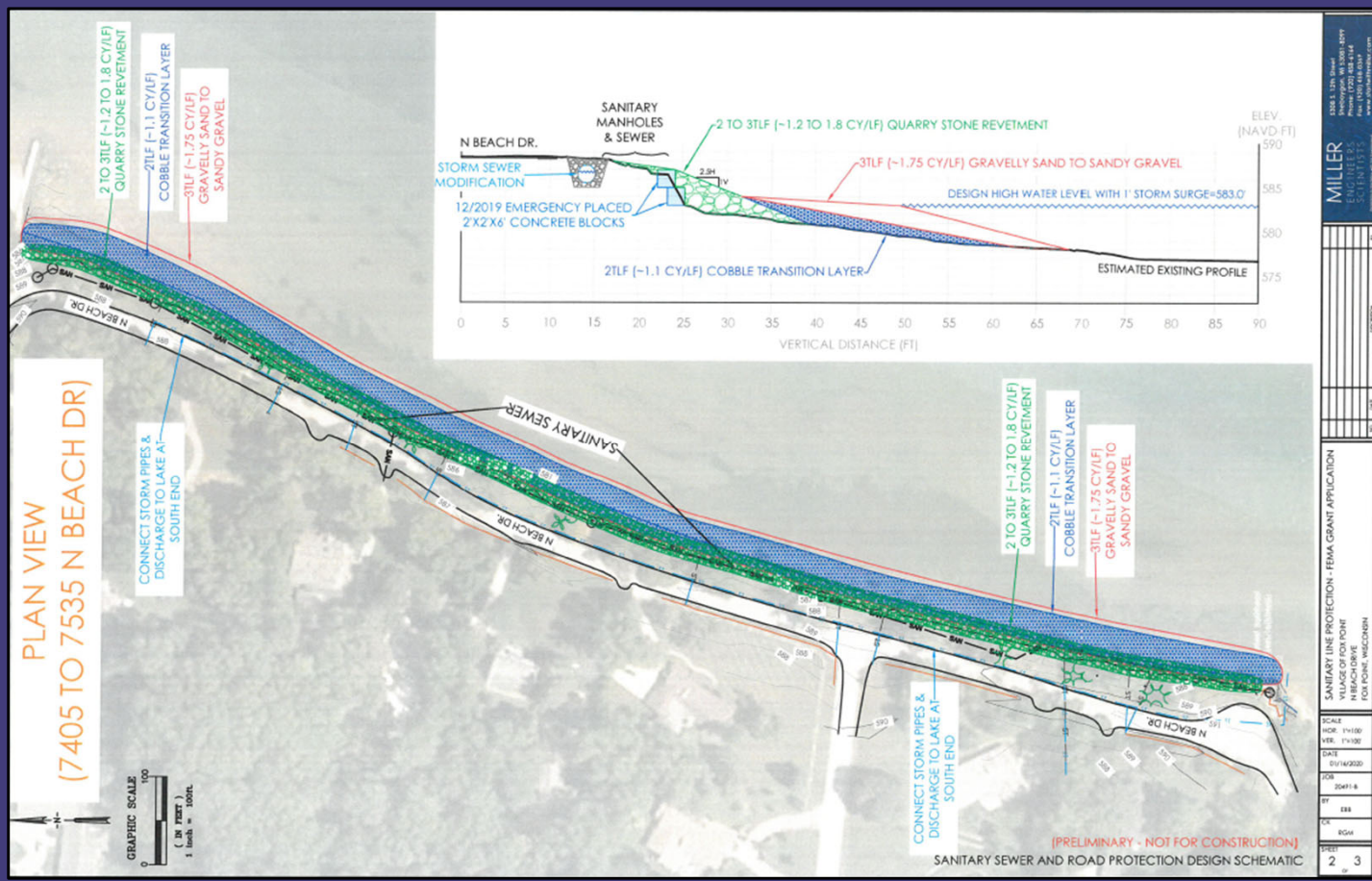


Link to Great Lakes Shoreline Stabilization Programmatic Environmental Assessment and supporting documents:
<https://www.fema.gov/emergency-managers/practitioners/environmental-historic/nepa/final-programmatic-environmental>



Project Approval: Sept. 9, 2021

- Funding:
 - Federal share (75%) = \$1,626,377.50
 - Local match (25%) = \$542,200.00



Data Source:

E:\DATA\20400\20491 - Village of Fox Point Lakeshore\CAD\DESIGN\20491 - B Long Term Design (FEMA). dwg 1/16/2020 11:25 AM
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