

Moorhead Flood Protection 2021

January 2021



The City of Moorhead requests \$17.5M from the DNR's Flood Damage Reduction Program to construct remaining infrastructure necessary for in-town flood protection.

- Compatible with and necessary for the FM Diversion Project - \$2.7B funded primarily by federal sources, State of North Dakota, City of Fargo, and Cass County that offers permanent flood protection for Moorhead and Clay County.
- Continues the 2009 flood mitigation plan to protect Moorhead and Clay County from 100-year flood events.

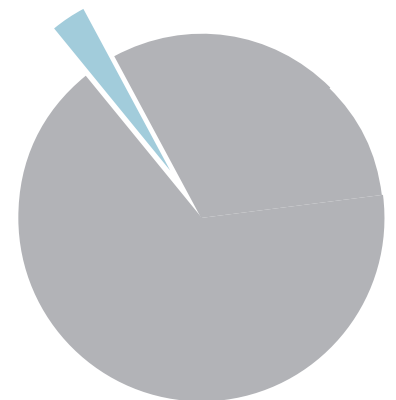
Improvements & Acquisitions Needed to continue Moorhead's 2009 Flood Mitigation Plan

	2021	FUTURE
• North Moorhead Project Phase 2	\$6.0M	
• Sanitary Lift Station #2	\$2.0M	
• 1st Ave. N Levee/Floodwall	\$2.0M	
• Stormwater Lift Stations	\$4.0M	
• Riverview Circle Levee/40th Ave S. Road Raise	\$3.5M	
• Future voluntary acquisitions*		\$12.7M
TOTAL	\$17.5M	\$12.7M

*Not included in 2021 request; not associated with infrastructure projects.

Total funding for flood protection efforts in Moorhead and Fargo metro area

\$86M
Minnesota Portion



~\$2.7B

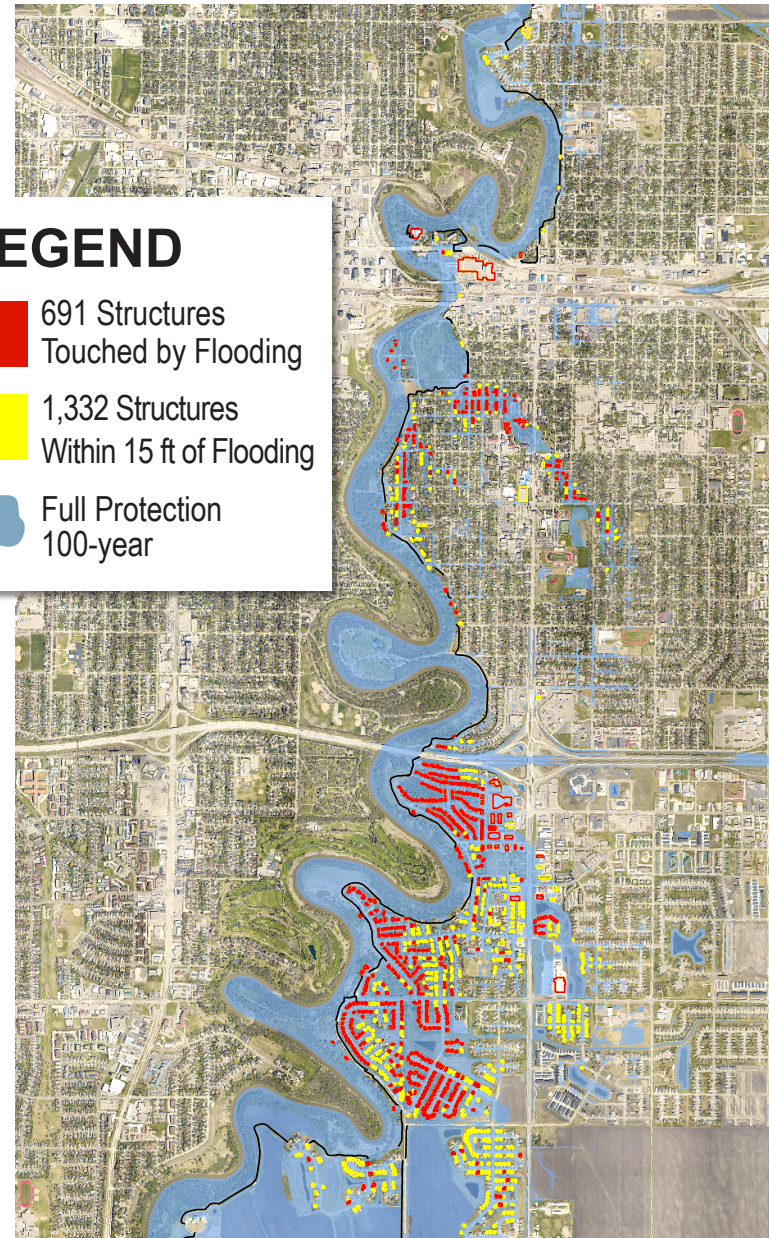
Fargo and Cass County,
State of North Dakota and
Federal Funding



MOORHEAD FLOODPLAIN RISK

Flooding poses a significant risk of damage to urban and rural infrastructure and disrupts transportation throughout the metropolitan area.

Infrastructure at risk in the FM urban area includes several regional medical centers, three college campuses, and city and county government offices. (DNR EIS)



LEGEND

- 691 Structures Touched by Flooding
- 1,332 Structures Within 15 ft of Flooding
- Full Protection 100-year

MOORHEAD, MN

LARGEST HISTORICAL CRESTS

8 of the top 10 flood events occurred within the last 30 years.

March 28, 2009	40.84 ft.
April 18, 1997	39.72 ft.
April 7, 1897	39.10 ft.
April 9, 2011	38.81 ft.
April 15, 1969	37.34 ft.
April 5, 2006	37.13 ft.
March 21, 2010	36.99 ft.
April 14, 2001	36.69 ft.
April 9, 1989	35.39 ft.
April 8, 2019	35.03 ft.

CONTACT INFORMATION



Dan Mahli
City Manager
City of Moorhead
218.299.5303
dan.mahli@ci.moorhead.mn.us



Dr. Bob Zimmerman, PE
City Engineer
City of Moorhead
218.299.5390
bob.zimmerman@ci.moorhead.mn.us



Lisa Bode
Governmental Affairs Director
City of Moorhead
218.299.5372
lisa.bode@ci.moorhead.mn.us

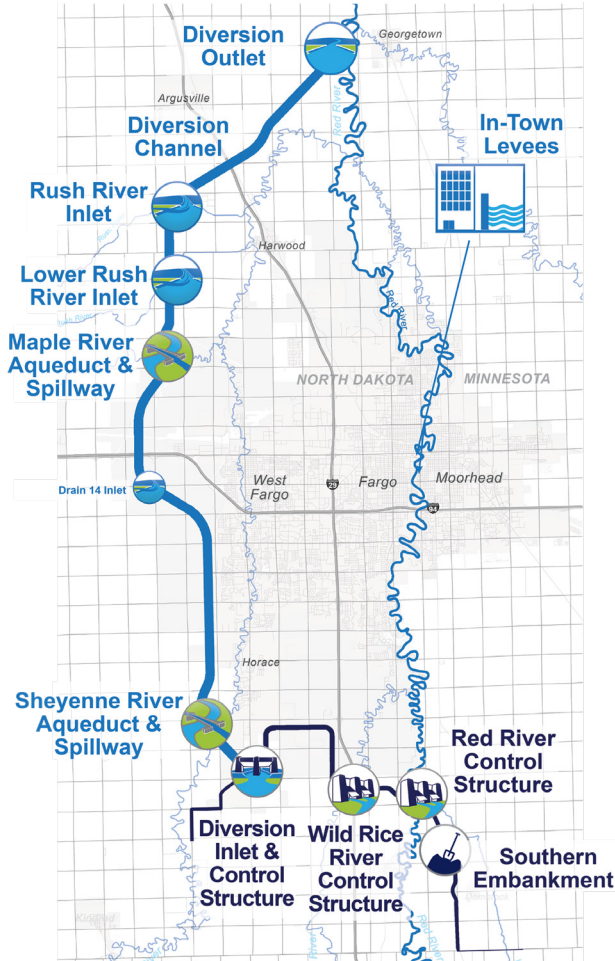
City of Moorhead Projects

\$30.2 Million



Project Update

January 2021



DIVERSION OUTLET

Water exiting the channel flows back into the Red River.



DIVERSION CHANNEL

An earthen channel that carries flood waters around the metro area.



RIVER OR DRAIN INLET

Water from surrounding drainage areas enter the Diversion Channel.



AQUEDUCT

A structure that allows normal river flows to cross the Diversion Channel and allows excess water to flow into the Diversion Channel.



SOUTHERN EMBANKMENT

The Southern Embankment is an earthen structure that protects the metro area.



DIVERSION INLET AND CONTROL STRUCTURE

During times of flooding, water behind the Southern Embankment will enter the Diversion Channel through the Diversion Inlet and Control Structure.



RIVER CONTROL STRUCTURES

Control Structures use radial arm flood gates to allow measured river flows through the metro area.

PROJECT STATUS

Construction

- A P3 firm is being selected to build the Diversion Channel and associated infrastructure. P3 bids are expected to be received on March 26, 2021, with the award scheduled for April 22, 2021.
- The U.S. Army Corps of Engineers is building the Southern Embankment and associated infrastructure. Construction is currently underway on the \$59 million Wild Rice River Control Structure and \$46 million Diversion Inlet and Control Structure.
- Many in-town levees and flood protection components have been completed by Moorhead and Fargo.

Financial

- The federal government has committed \$750 million to the Project. In 2021, the federal government allocated \$115 million for design and construction of U.S. Army Corps of Engineers-led portions.
- Federal support has also ensured the Project has access to low-interest WIFIA funding.
- The State of North Dakota has committed \$750 million to the Project. Legislation has been introduced to increase that commitment to \$850 million.
- Local North Dakota sales tax estimated to raise more than \$1 billion for the Project.

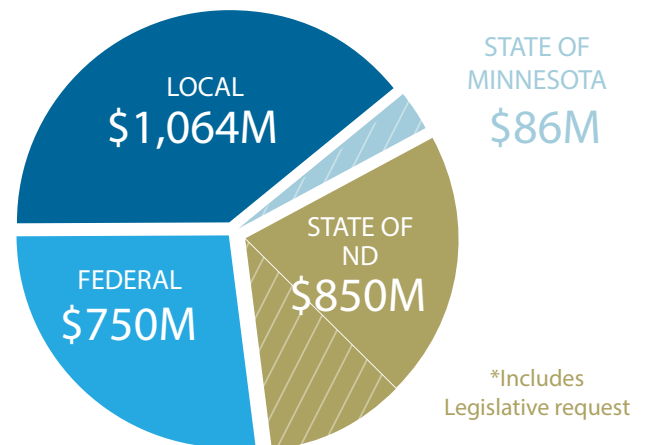
Settlement Agreement

- An agreement was signed to dismiss all litigation with prejudice relating to the Project. This agreement also creates an Economic Impact Relief Fund for political subdivisions within Richland County, ND and Wilkin County, MN.

Land

- Almost 600 parcels needed for the Project construction and operation has been acquired. An estimated 1,600 parcels are impacted by the Project.

FUNDING SUMMARY



Learn more at FMDiversion.gov