



TO: Mayor Chuck Barney
Members of the City Council

FROM: Dan Jonasson, Director of Public Works

DATE: April 20, 2018

SUBJECT: MI-5 EAST TIEBACK LEVEE ALTERNATES – FLOOD CONTROL
ALTERNATIVES FOR CONSIDERATION

I. RECOMMENDED ACTION

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1. Information will be provided for Council to make a recommendation of preferred alternative for MI-5 (East Tieback Levee)

II. DEPARTMENT CONTACT PERSONS

Dan Jonasson, Director of Public Works	857-4140
Ryan Ackerman, Administrator – SRJB	837-8737

III. DESCRIPTION

A. Background

The SRJB, design engineers and Public Works staff have been working since the 2011 flood on designing and permitting various stages of flood protection in Minot, as well as the rural reaches. Phases 1,2 and 3 are currently under construction and the HMGP project to protect the water treatment plant is complete. In addition Perkitt ditch storm water detention has been completed and Burlington flood protection is 90% complete in design. A feasibility study is underway to determine what federal interest there may be in the MREFPP, currently the Maple Diversion looks like the only likely candidate for federal funding.

B. Proposed Project

MI-5 or the east tieback levees will connect to phase 1, on the east side of the 3rd street bridge and tie into high ground on the east end of Minot. A list of alternatives that have been looked at for consideration are attached in the Houston Engineering presentation. Council will be asked to review these various alternatives and select a preferred option to have the SRJB advance

C. Consultant Selection

Barr – Ackerman design team, along with Houston Engineering were selected by the SRJB in accordance with state statute to design phases of the MREFPP.

IV. IMPACT:

A. Strategic Impact:

This work is the 5th phase of several phases of permanent flood protection throughout the city of Minot. It will be built to provide protection to the flood of record plus 3' of free board. This phase of flood control is along the alignment of the preliminary engineering report and alignment that was completed after the 2011 flood. It is another phase of flood protection, that will provide protection to the residents of Minot as well as be a crucial part of removing these residents from the new FIRM mapping from FEMA.

B. Service/Delivery Impact:

This project is part of the long term flood protection and one of the first phases to start removing 60% of the people in the new FEMA firm maps. It is estimated that this phase will be ready to bid in 2019, pending funding appropriation from the Legislature and the SWC.

C. Fiscal Impact:

Funding from the State Water Commission is being requested for 65% of the costs and there was legislative intent during the 2017 legislative session to fund the first phases of flood protection in Minot, which included the east (MI-5) and west tieback levees.

V. ALTERNATIVES

Numerous alternatives have been assessed, these are shown in the attached presentation that will be given at the Committee meeting. Houston Engineering will present these alternatives.

VI. TIME CONSTRAINTS

Council's approval of the preferred alternate will allow the project to move forward and gather public input on this preferred option as well as advance to final design for this phase.

VII. LIST OF ATTACHMENTS

A. *MI-5 Presentation*