OCTOBER 5, 2020 COMMISSION MEETING
• Update on In-Town Projects
• Oak Grove Neighborhood Alignment
Completed Projects
• Constructed over 22 miles
  • *47 miles of emergency levees constructed by the City in 2009

• Project Cost ≈ $295 million

• Reduces required sandbags by approximately 5 million
  • Needed over 6 million in 2009

• All completed projects are built to proper elevations to accommodate Plan B’s proposed 37’ flow through town
254 Properties Purchased
  - Over 380 since 1990

At Cost of Over $105 million

Approximately 90 Private Property Easements Purchased

Remaining Acquisitions
  - 9 Complete Property Acquisitions
  - 30 Levee Easements
REMAINING IN-TOWN PROJECTS
• Construction started this past September

• Levee & STS lift station to be operational for 2022 spring melt
• Planned for 2021 construction
• 1 acquisition remaining
  • 5 acquisitions completed
• 4 levee easements necessary

**Earth Levee (RS 44 FT)**

**New Lift Station & Outfall**

**Slope Unloading**
• Planned for 2021 construction
• 2 acquisitions remaining
  • 10 acquisitions completed
• 1 levee easement necessary

Earth Levee (RS 44 FT)
Cul-De-Sac Relocation
Slope Unloading
• Planned for 2022 construction
• Full property acquisitions completed
• 10 levee easements necessary
• Planned for 2021 construction
• Full property acquisitions completed
• 5 levee easements necessary
• Phase 2
  • Completed this summer

• Phase 3
  • 3 Acquisitions Remaining
  • Alignments being developed
  • Construction Tentatively Set for 2022

• Phase 4
  • Water Intake Building Modifications
  • PDM Grant Awarded
  • Construction planned for 2021
Phase 3

- 3 acquisitions remain to complete entire neighborhood

- Negotiations are ongoing
  - Resolution of Necessity’s approved by City Commission on March 27, 2017

- No tentative construction timeline
• 19 planned for reconstruction or improvements
  • 1 – Completed
  • 2 – Construction Ongoing
  • 1 – Design Underway

• Plan for minimum of 3 completed per construction season starting in 2022
- Complete Property Acquisitions – 2
- Levee Construction on Property Acquisitions
- Road Raise on South Terrace
- Oak Grove School would remain and continue to be within 100yr floodplain.
  - Existing protection around school will protect against 37-foot floods but is not able to be accredited by FEMA
OAK GROVE RECOMMENDED PROJECT ALIGNMENT

Concrete Floodwall w/ Removable Road Closure

Earth Levee (RS 44 FT)

Sheet Pile Retaining Wall

Concrete Floodwall w/ Removable Road Closure

Earth Levee (RS 44 FT)
**"Plan B" (37-Feet) Conceptual Plan vs. Recommended Plan Cost Comparison**

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Construction Estimate (July 13, 2018)</th>
<th>Construction Estimate (30% Contingency)</th>
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</thead>
<tbody>
<tr>
<td>Oak Grove</td>
<td>$1,100,000</td>
<td>$9,100,000</td>
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</tbody>
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Recommended Motion:
Authorize Engineering to complete the final design on the recommended alignment, as shown, and to complete the necessary easement acquisitions presented for Project #FM-19-F, which are required to allow safe passage of 37-feet thru town on a 100-year flood event with the Fargo-Moorhead Area Diversion project in place.