Davenport Flood Study

- www.davenportiowa.com/floodstudy
- Robbin Dunn, Communications & Preparedness

12/03/20 | QCFRA Virtual Meeting
Flood Study Timeline

- Study Began | Jul 2020
- Data Collection | Aug 2020 to Dec 2020
- Stakeholder Meetings Wave #1 | Nov to Dec 2020
- Public Survey Wave #1 | Nov 9 to Nov 23 | Extended
- Data Analysis | Sep 2020 to Feb 2021
- Engagement Wave #2 | Feb 2021
- Engagement Wave #3 | May 2021
- Review Recommendations | Jul 2021 to Aug 2021
- Present Flood Study to Council | Oct 2021
- Approval & Recommendation Prioritization | Nov 2021
Seven Unique Districts

- McClellan to Mound
- Bridge to 4th
- 4th to Gaines
- Gaines to Marquette
- Marquette to Division
- Division to Concord
- Blackhawk and Walnut Creek
Scope & Considerations

• Existing plans and studies
• Public and stakeholder input
• Maintain land use viability in the areas within and adjacent to the floodplain.
• Maintain transportation on River Dr between Davenport’s eastern city limits to 3rd and 4th streets
• Maintain traffic on 2nd Street between Iowa and Division.
• Structural and non-structural flood defense systems and techniques
• Future climate impacts
• Interior drainage
• Reduce number of flood tasks and prolong need for implementing measures
• Feasibility
• Downstream impacts
Holistic Approach

- History
- Social Context
- Open Space Network
- Transportation and Active Transportation Network
- Ecological Context
Hazus Modeling

- Concurrent and complimentary to Flood Study
- Corps of Engineers | Silver Jackets
- Low Entry Point Elevation
- HEC-RAS Hydraulic Modeling
- Hazus Level 2 Analysis
- Potential Economic Damage and Mitigation Recommendations
Low Entry Point Elevation

Blackhawk Creek Section
- 165.1 Acres
- 754 Buildings
- 664 Properties

East Section
- 82.8 Acres
- 60 Buildings
- 84 Properties

West Section
- 316.9 Acres
- 597 Buildings
- 639 Properties

Central Section
- 324.9 Acres
- 276 Buildings
- 358 Properties

Southwest Section
- 1403.7 Acres
- 176 Buildings
- 200 Properties
Daily Stage for Mississippi River at Rock Island (Lock and Dam 15) from 1878 to 2020
Gage Zero Elevation = 542.50 FT
What’s Next?

Wave 2 Stakeholder & Public Input on Preliminary Recommendations | Feb/Mar 2021

Public meetings for property owners located in the floodplain

• Flood zone updates
• Sharing elevation data
• Risk awareness
• Questions and answers
Thank You

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New document to be released soon on Davenport's historical relationship with the riverfront

Mississippi River

Credit Island
Questions?
Scott County Flood Mapping

• Laura Berkley, Development & Planning Administrator
Mapping Resources

- https://ifis.iowafloodcenter.org/ifis/maps/hazard/
- https://ifis.iowafloodcenter.org/ifis/newmaps/risk/map/
- Select creek hydraulic and hydrological study and updates
  - Preliminary Review Phase | Spring 2021
  - Finalize Effective Maps | TBD