

# Union Mulberry Drainage Improvements

Public Meeting  
March 11, 2013



# Mitigation

- \* Mitigation is defined as any action taken to reduce or eliminate the long-term risk to human life and property from hazards.

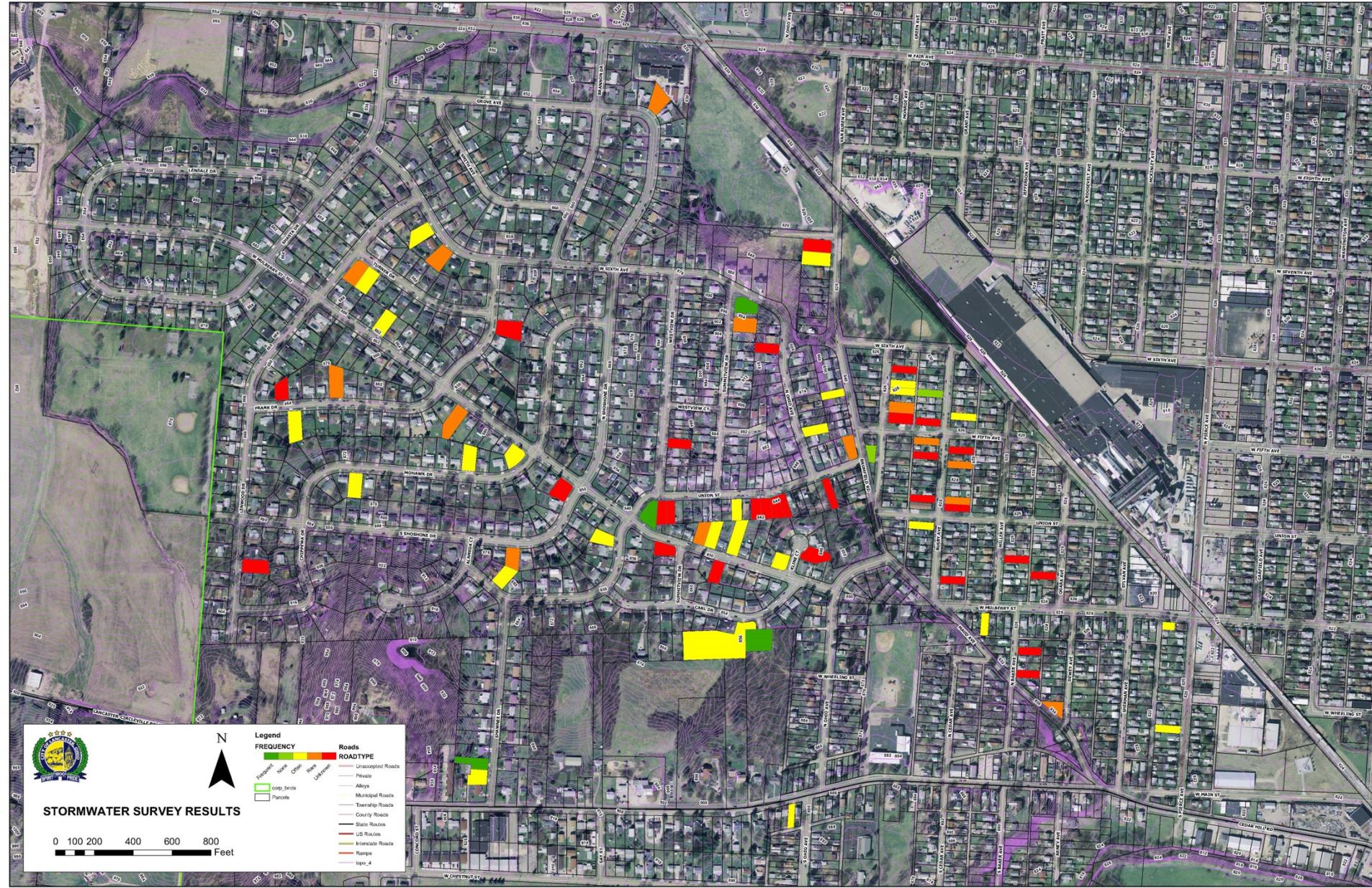


# Project History

- \* July 2006 flood
- \* Stormwater Improvements Feasibility Study began 2008
- \* Surveyed area residents
- \* Collected land survey information
- \* Intent was to present options to City



# Resident Survey



# Tributary/Flood Routing Map



# Options Considered

- \* Purchasing property for retention pond
  - \* Displacing residents
  - \* Cost prohibitive



- \* Utilizing Glassco Park
  - \* Similar success in Hubert/Reese
  - \* Less impact on residents
  - \* Reduced cost comparatively



# Glassco Park



# Recent History

- \* Recommendations were made to improve the drainage in the area
- \* Projected cost to the City over \$4.5 million
- \* Project separated into phases to account for impact of cost
- \* Mayor became aware of HMGP funding
- \* City asked JHA to assist in applying for FEMA Natural Hazard Mitigation Program Grant
- \* City has been pre-approved for Grant to proceed with Phases 1-4 of Improvements (\$2.6 million, \$1.9 million funded)



## Hazard Mitigation Grant Program



# Project Components

- \* Glassco park storage
- \* Complete reconstruction of Maud & Brumfield
  - \* Flood routing
- \* Discharge upgrade to Hunter's Run
- \* New collection system as feasible
- \* Spot upgrades



# Commitments to EMA

- \* Formal final application due in May must include:
  - \* Cost Benefit Analysis
  - \* Design of Improvements
  - \* Public Involvement
  - \* Detailed Cost Estimate

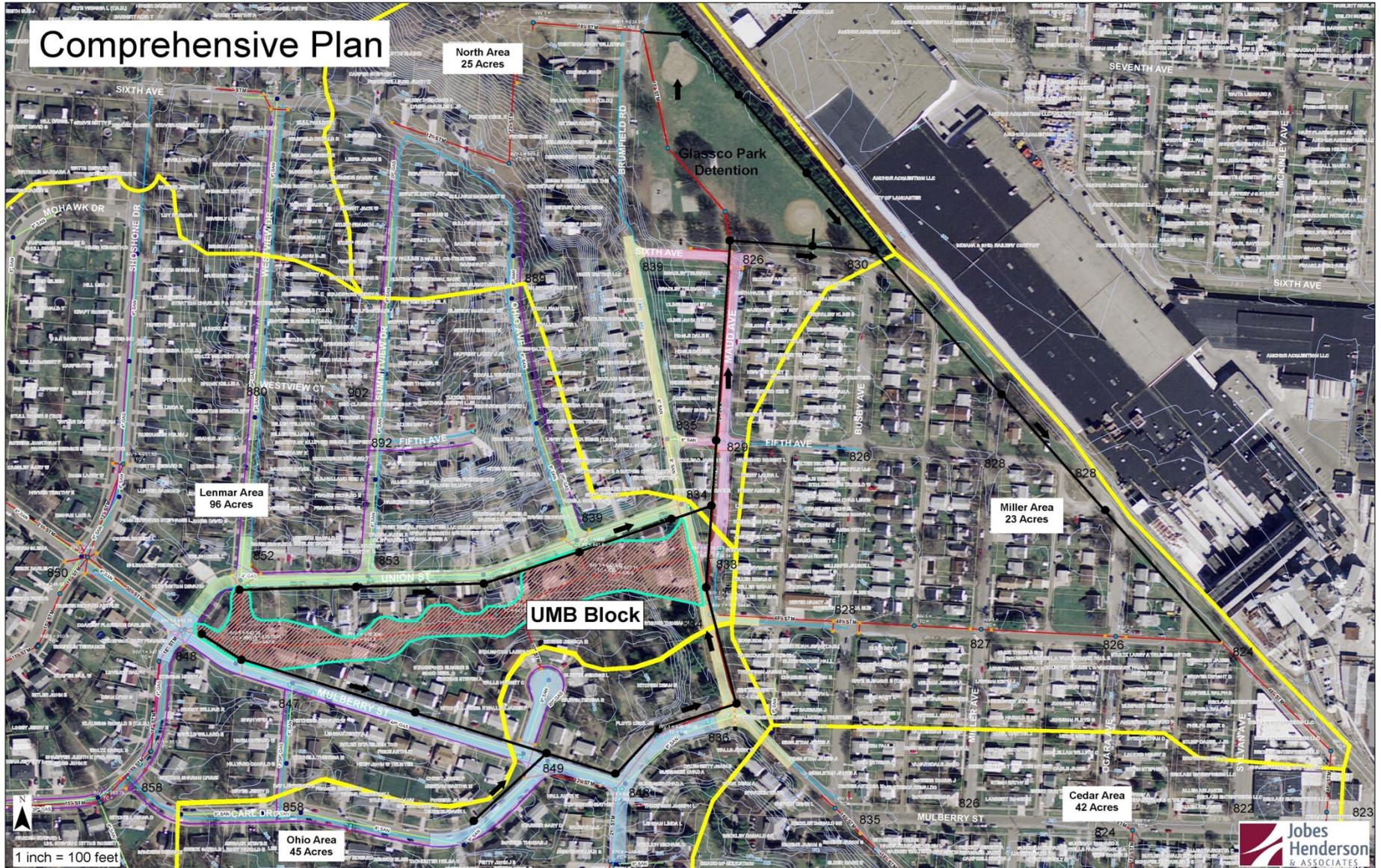


# Current Project Schedule

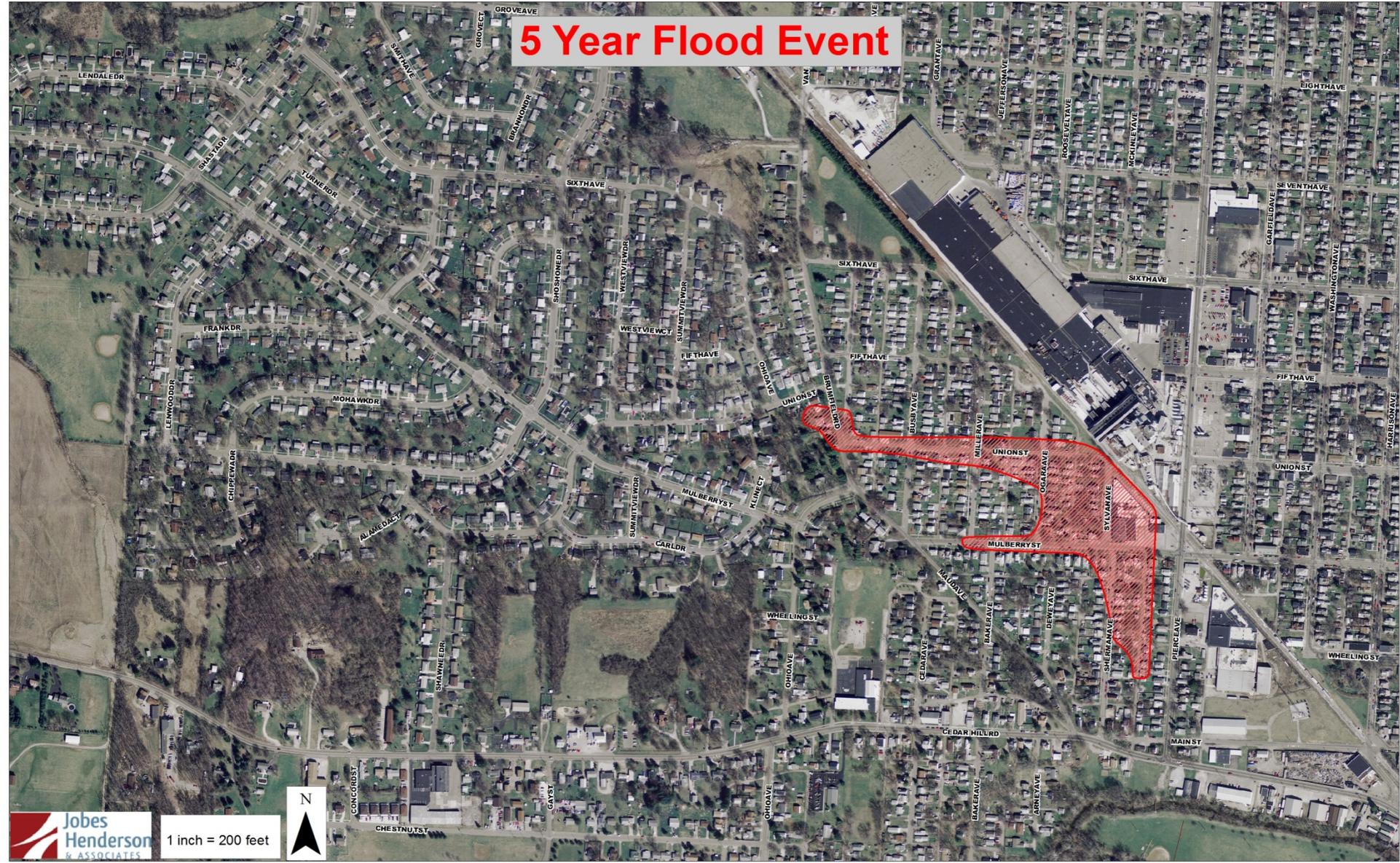
- \* By May 13, 2013
  - \* Cost Benefit Analysis
  - \* Public Involvement
  - \* Design of Improvements
- \* Anticipated July, 2013, FEMA Grant Approval
- \* Bid Autumn 2013
- \* Construction early 2014
- \* Construction Complete end of May 2014



# Comprehensive Plan



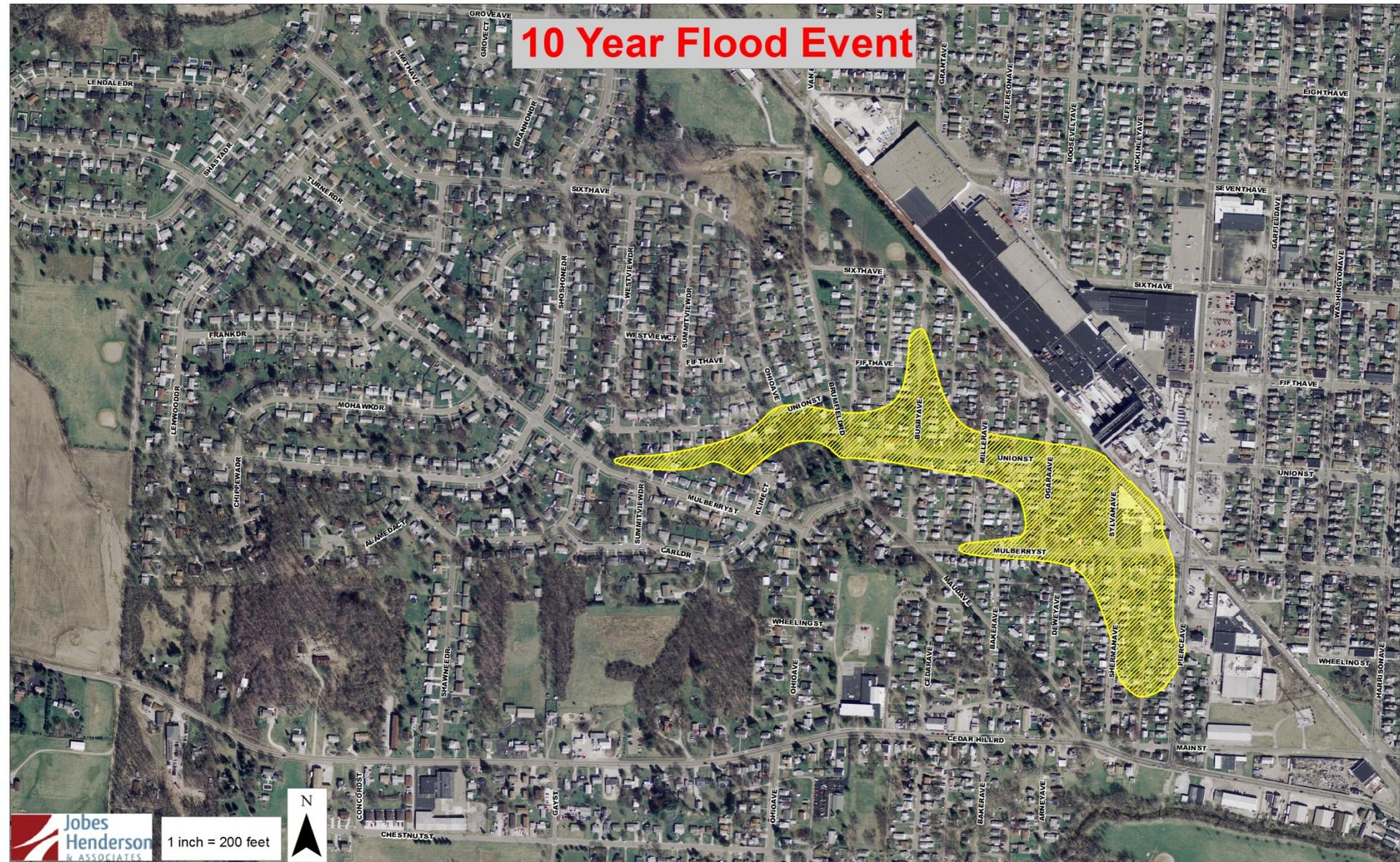
# 5 Year Flood Event



1 inch = 200 feet



# 10 Year Flood Event



# Existing Conditions – Roadway Deterioration



# Existing Conditions – Insufficient Structures



# Existing Conditions – Poor Drainage



# Existing Conditions – Park Elevation



# Questions

