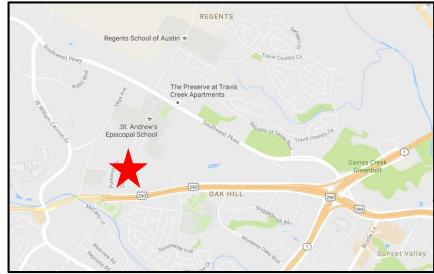
Oak Park/Oak Acres Flood Mitigation

November 3, 2016







John Middleton, P.E.

RPS Group

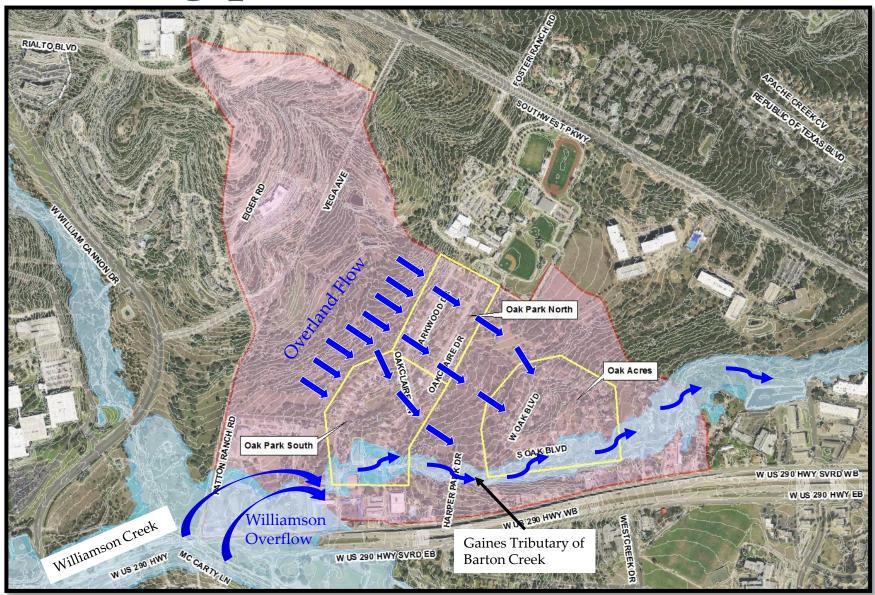
Rupali Sabnis, P.E.



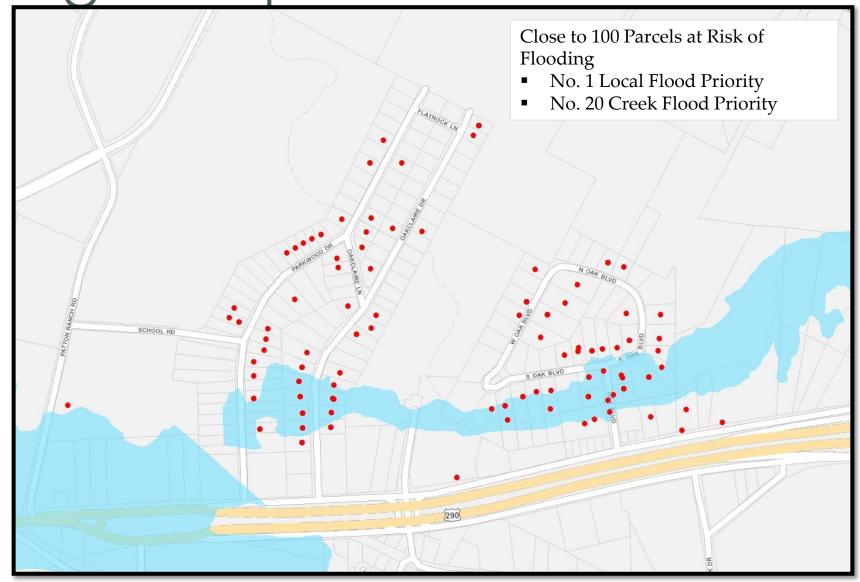
Agenda

- Problem introduction
- Efforts to date
- Draft Preliminary Engineering Report (PER) discussion
- Moving forward
- Questions

Flooding problems



Flooding Complaints



Efforts to Date

- Gaines tributary study Williamson overflow estimate, floodplain map
- Previous neighborhood meetings August 2012, September 2013, March 2015
- Harper Park development coordination
- St. Andrews development coordination
- Field Operations work

Preliminary Engineering Report Goals

- Mitigate flooding from local runoff and Williamson overflow
- City of Austin Drainage Criteria Manual
 - Stormdrain
 - Runoff from 25-year storm (7.6 inches in 24 hours) below ground
 - Runoff from 100-year storm (10.2 inches in 24 hours) within Right of Way
 - Roadway crossings
 - No overtopping in 25-year storm
 - Maximum 6 inches overtopping in 100-year storm
 - Minimum impact to environmentally sensitive areas (trees, recharge features)
 - No downstream adverse impact

Draft Preliminary Engineering Report

- Two design options
- Option 1 requires some property acquisition
 - Affected property owners contacted
- WPD requested another option with fewer property acquisition
- Option 2 eliminates need of any property acquisition
 - Include some easement acquisition
 - Project sponsors leaning toward Option 2
- Download draft report from project website

www.austintexas.gov/oakpark







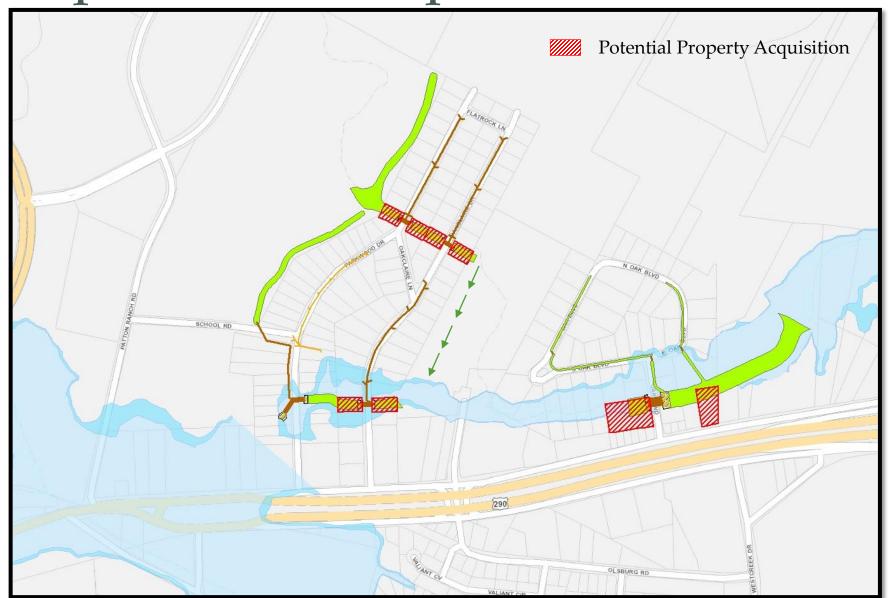




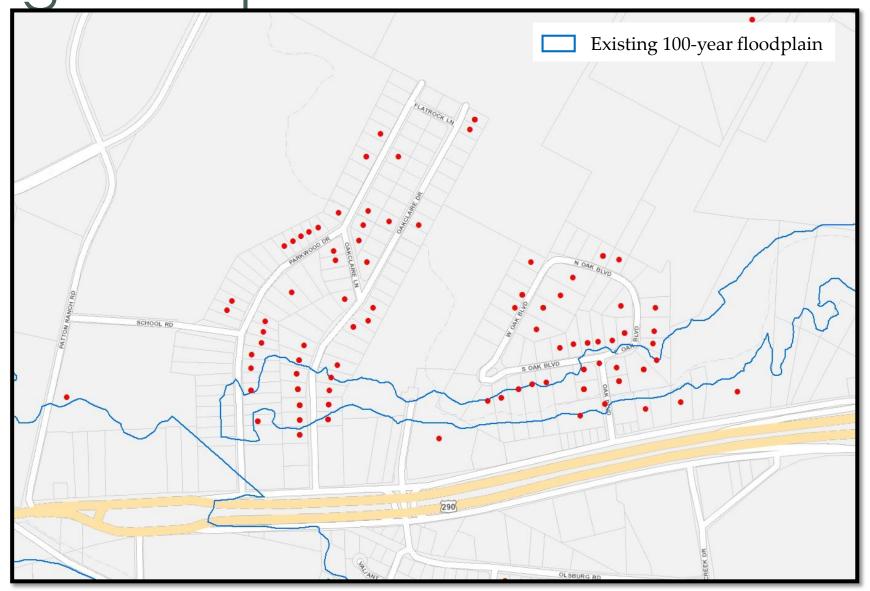




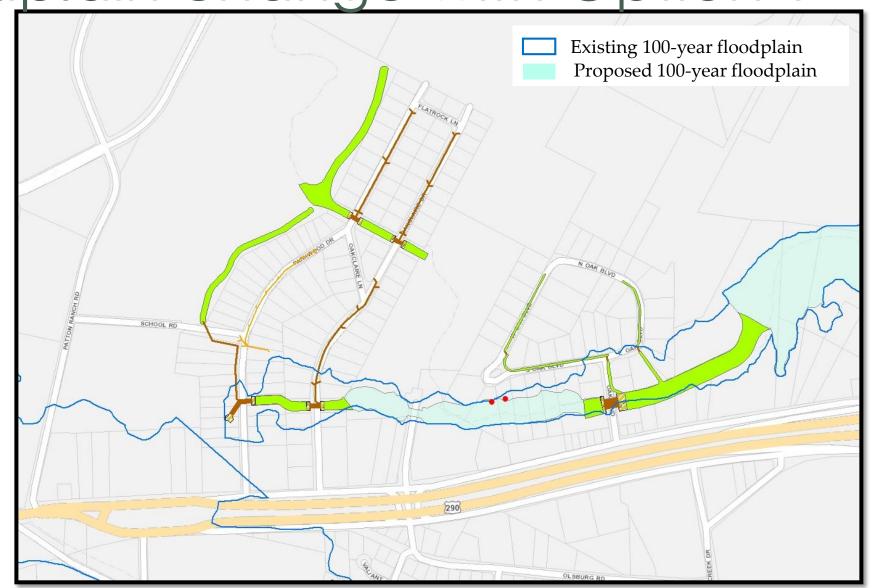




Existing Floodplain

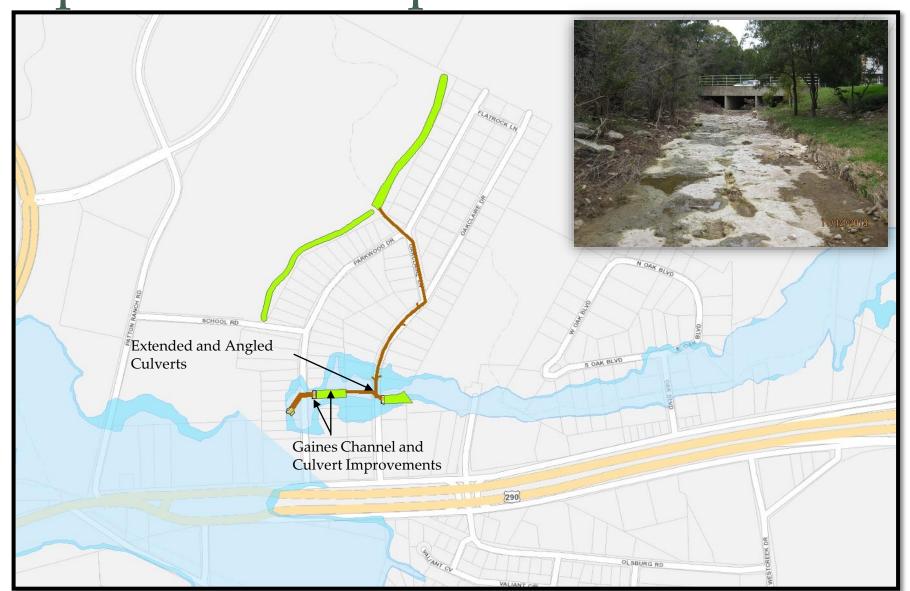


Floodplain change with Option 1









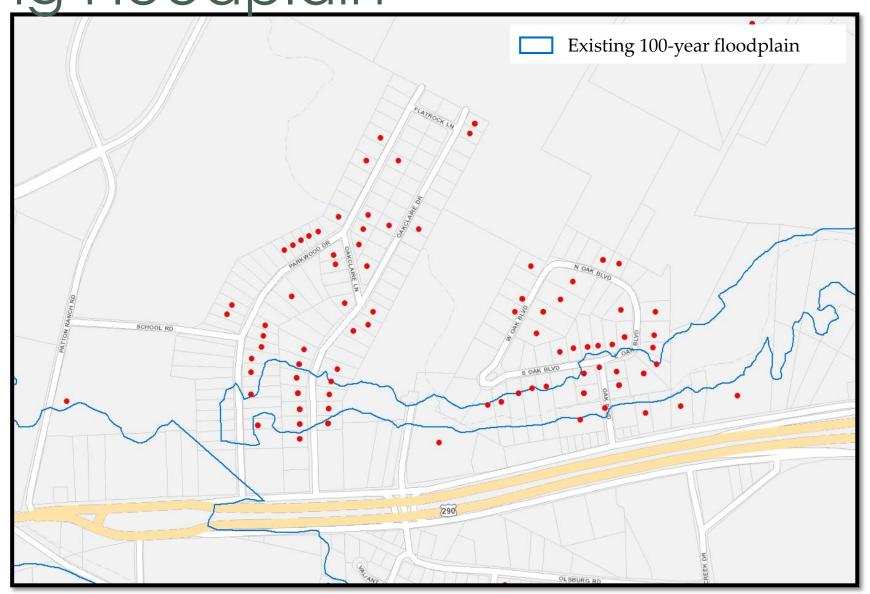




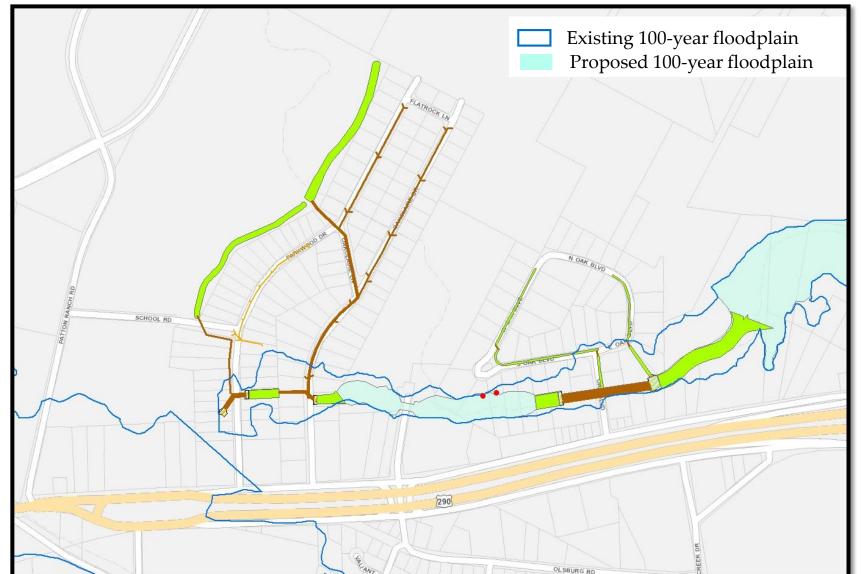




Existing Floodplain



Floodplain Change with Option 2



Moving Forward

- Selection of most feasible option
 - Project sponsors leaning toward Option 2
 - Internal Watershed Protection Department review
 - Stakeholder feedback
 - Work to minimize property and easement acquisition
- Secure funding (both options are ~\$12M)
- Implementation
 - Starting from downstream
 - Phased implementation
 - Smaller projects to speed up the process
- Timeline
 - Selection of option and Preliminary Phasing Plan by Summer 2017



Thank you!!

Questions?