

# Waller Creek Guadalupe Flood Risk Reduction Project

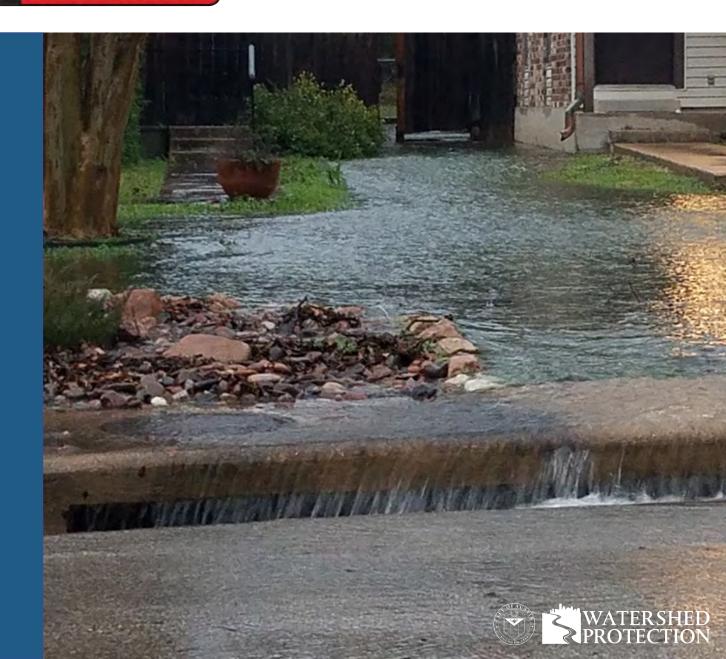
November 13, 2023



CIP ID#5789.075

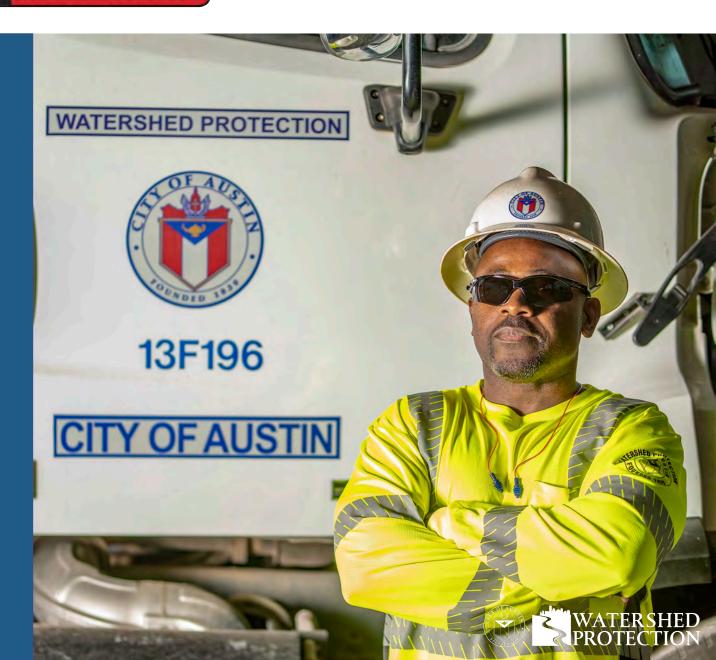
# Agenda

- Introductions
- Define Terms
- Guadalupe St. Flood Risk Reduction Project
- Draft Concept Plans
- Next Steps
- Questions



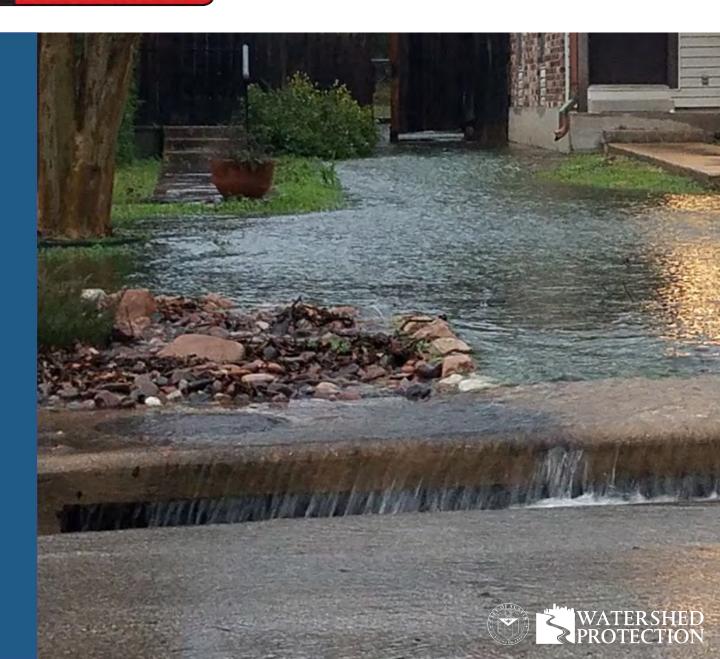
## **Watershed Protection**

Protects **lives**, **property** and the **environment** of our community by reducing the impact of **flooding**, **erosion** and **water pollution**.



# Introductions

- Stephanie Lott, *Public* Information Specialist Sr
- Dario Octaviano, *Project Manager*
- Hanh Thai, *Project Sponsor*
- Matt Milano, Consultant



# **Localized Flooding**

### Occurs away from creeks.





# **Creek Flooding**

Occurs when a creek rises over its banks.



# What is a Storm Drain System?

- System of streets, ditches, pipes and culverts
- Drains rainfall from streets to nearby creek
- Inlets are placed along curb to catch rainfall
- Streets should drain in most storms.

# **Components of a Storm Drain System**

#### **1.** Inlets and curbs capture rainwater.



2. Underground pipes carry the water.

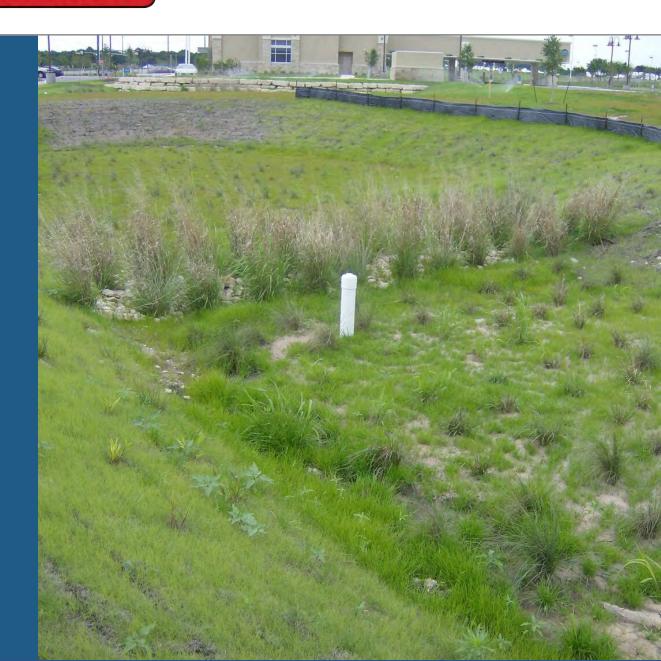


3. Rainwater is released into a creek at the outfall. Sometimes it goes to a water quality or detention pond first.



# Stormwater Detention Basin or Pond

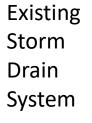
- Storm drain system releases water into basin instead of creek
- Water held temporarily in basin
- Used to reduce flood risk
- Can also help remove pollutants

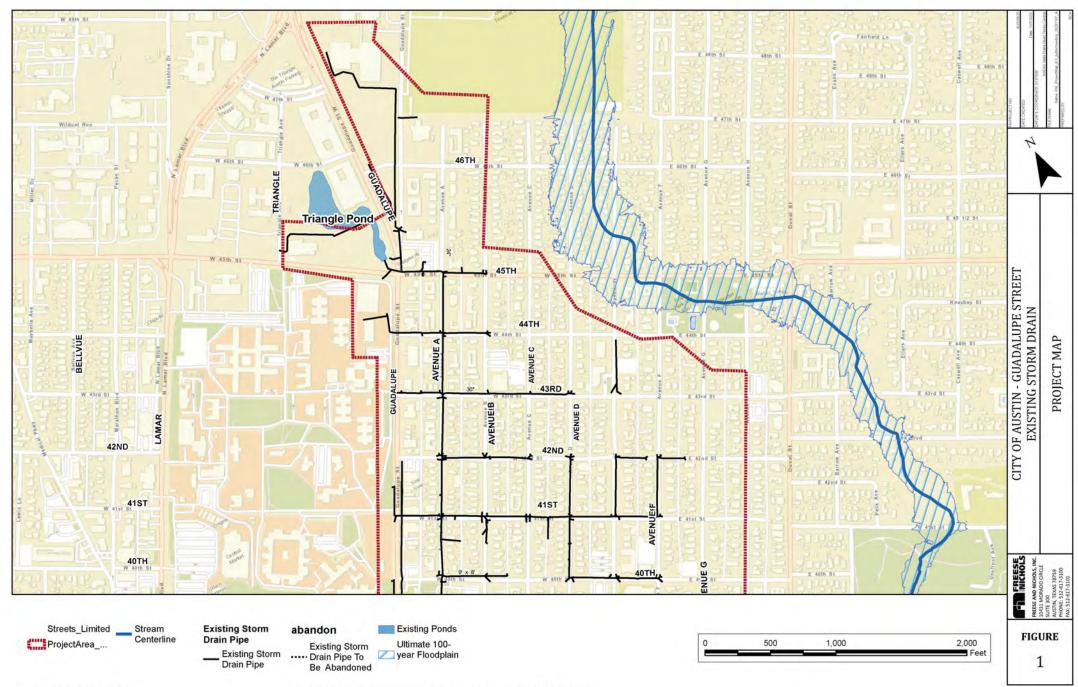


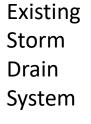


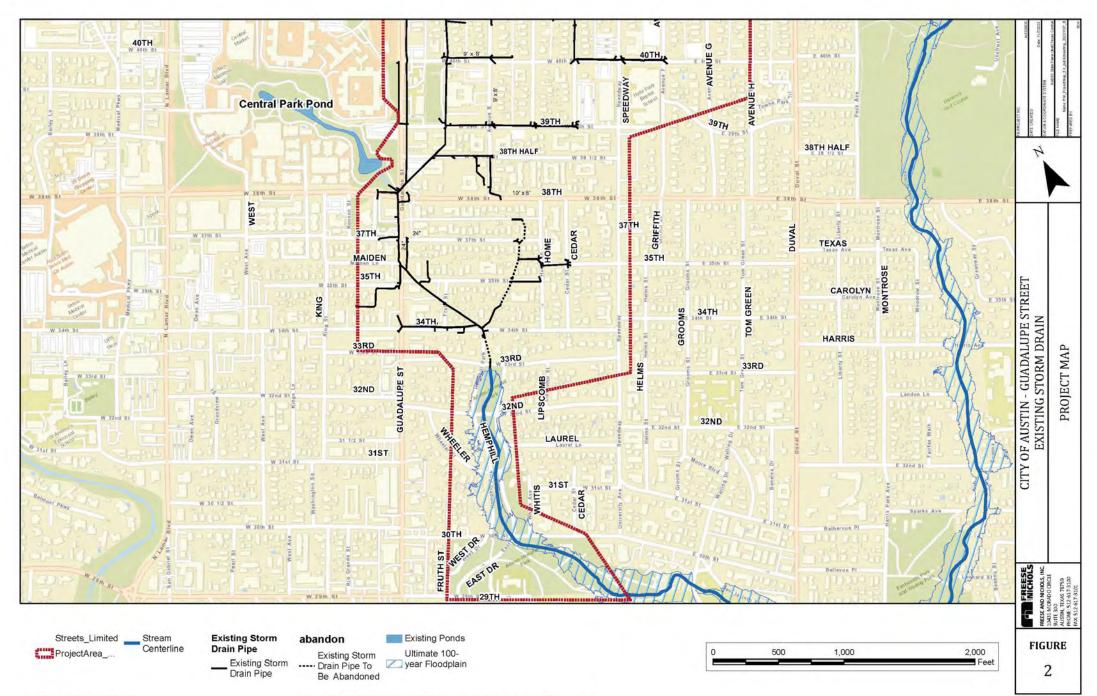
### Why did we start Guadalupe Street Flood Risk Reduction Project?









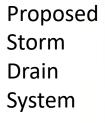


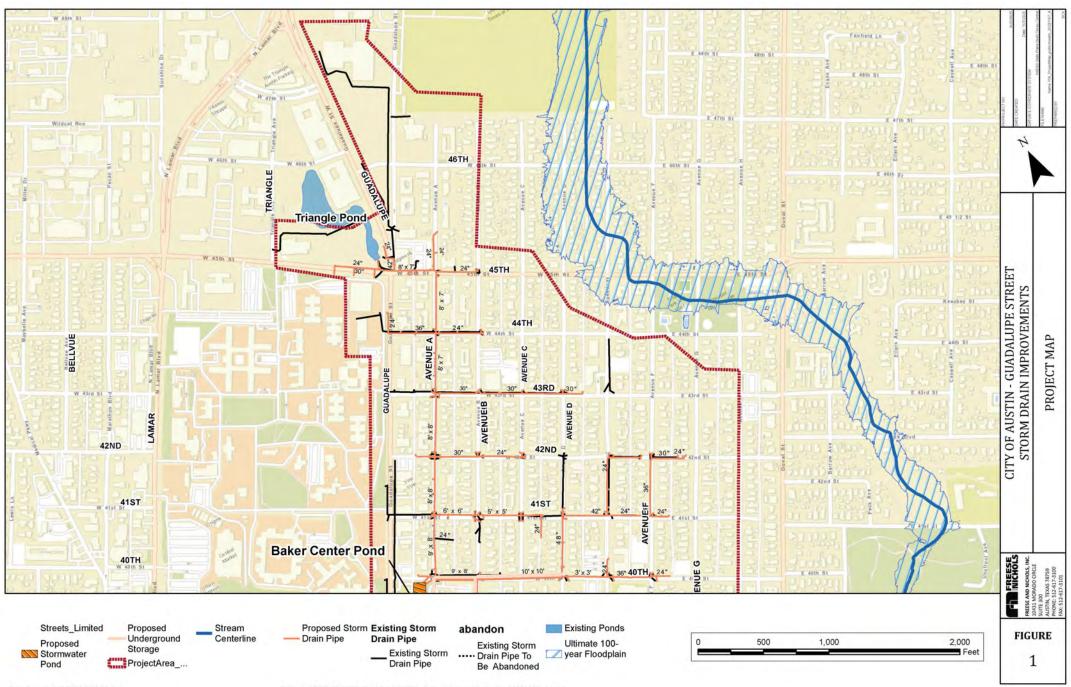
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# **Existing Drainage System**

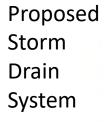
- Main storm system built in 1928
- Generally follows Avenue A to Hemphill Branch at W. 33rd St
- Pipe size varies from 42 inch in diameter to a 9 x 5.5 foot box culvert
- Central Park Pond designed in 1993
- Triangle Pond designed in 2004

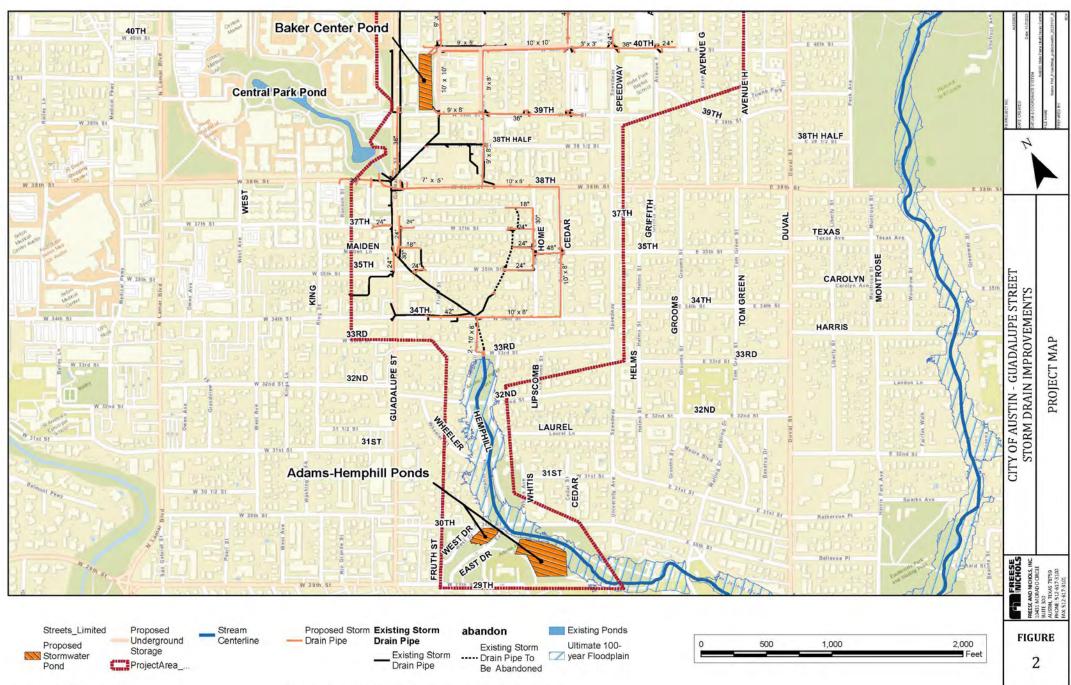






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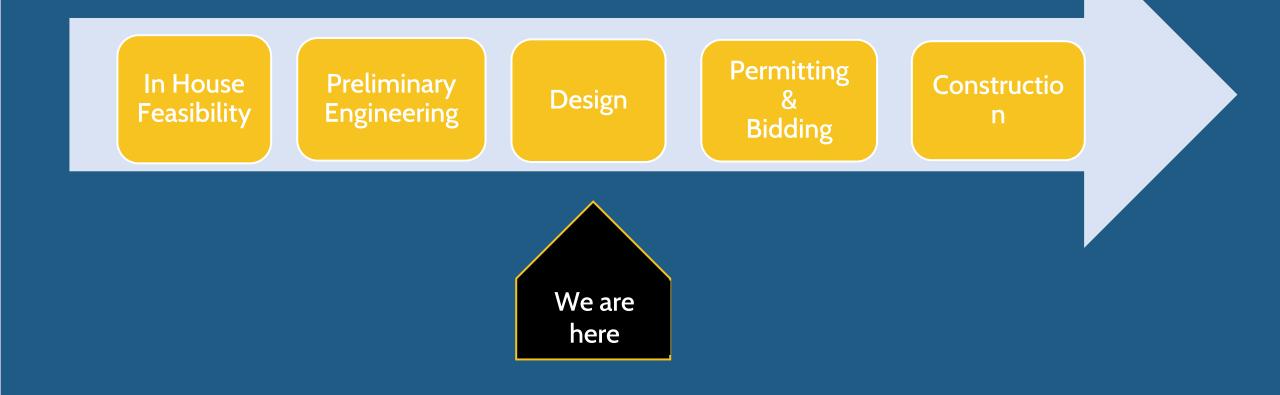


# Are there alternative locations?

- Evaluated numerous variations of detention basins, channel modifications and culvert improvements
- No other feasible alternatives have been identified
- Detention basins need a large space in a low spot where runoff naturally drains to
- Fully developed area with very little open space
- Ruled out buyouts of several homes between 33rd and 34th Streets
- Open spaces at the Austin Presbyterian Seminary and Scottish Rite Dormitory are too small



# Storm Drain Capital Improvement Program Project Phases



# Schedule & Funding Update

- Project will be divided into 4-5 phases
- Each phase takes approximately 2-3 years to complete
- Current estimated total cost is about \$91.5 million
- Estimated cost and schedule are dependent on funding availability and may change due to future circumstances

Phase	Estimated Construction Start Year	Estimated Construction End Year
1	2025	2027
2	2027	2029
3	2030	2032
4-5	2032	2035



# **Funding Update**

- Currently funded through the design phase
- Additional funds are needed to move to construction phase
- Construction funds allocation may take more than 5 years
- Working to identify alternative funding sources such as state or federal grants and subsidized loans





#### **ADAMS-HEMPHILL NEIGHBORHOOD PARK - CONCEPT PLAN 1**

NOVEMBER, 2023





ADAMS-HEMPHILL NEIGHBORHOOD PARK - CONCEPT PLAN 2

NOVEMBER, 2023

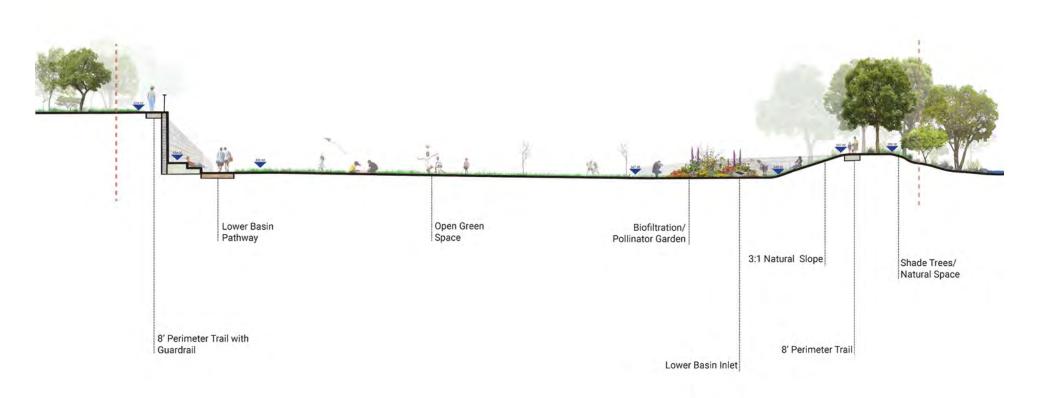




ADAMS-HEMPHILL NEIGHBORHOOD PARK -SECTION VIEW OF LOWER BASIN







# **Previous Communications and Outreach**

### **Guadalupe St. Flood Risk Reduction Project**

- Notification and Public Meetings 2017, 2018 and 2021
- NUNA Meetings 2021 and 2023

### Adams Hemphill Neighborhood Park

- Initial Survey and Open House 2022
- Advisory Committee Meetings 2023

# **Next Steps**

- Community input on two draft concept plans
- Parks and Recreation Director approves final concept plan
- Parks Board will vote on whether to recommend use of park land for drainage should proceed
- City Council will decide on whether to proceed with using park land for drainage
- If not approved, there will be no project to reduce flood risk between 45th St. and 33rd St.



# **Ground Rules**

### **Everyone is encouraged to participate!**

#### 1. Step up, Step back

Please be brief and to the point. Let others have an opportunity to speak.

#### 2. Mute, Unmute

When called upon, unmute your microphone. One person speaks at a time. When you finish speaking, please be sure to put yourself back on mute.

#### 3. Be Mindful

Please be respectful of staff and other attendees. Demeaning, derogatory, disruptive, inflammatory, threatening or vulgar language or actions will not be permitted and may result in attendee(s) being removed from the meeting.



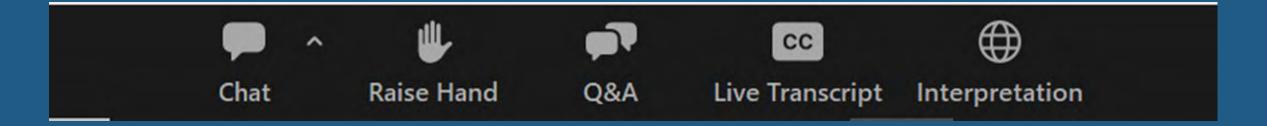
# **Questions: Two Ways**

#### **Raise Your Hand:**

Click "Raise Your Hand." When called on, unmute yourself and speak. Don't forget to lower your hand afterwards.

#### **Type Your Question:**

Click "Q&A" and type your question. You can also "upvote" other people's questions by liking them.







### **PROJECT TEAM**

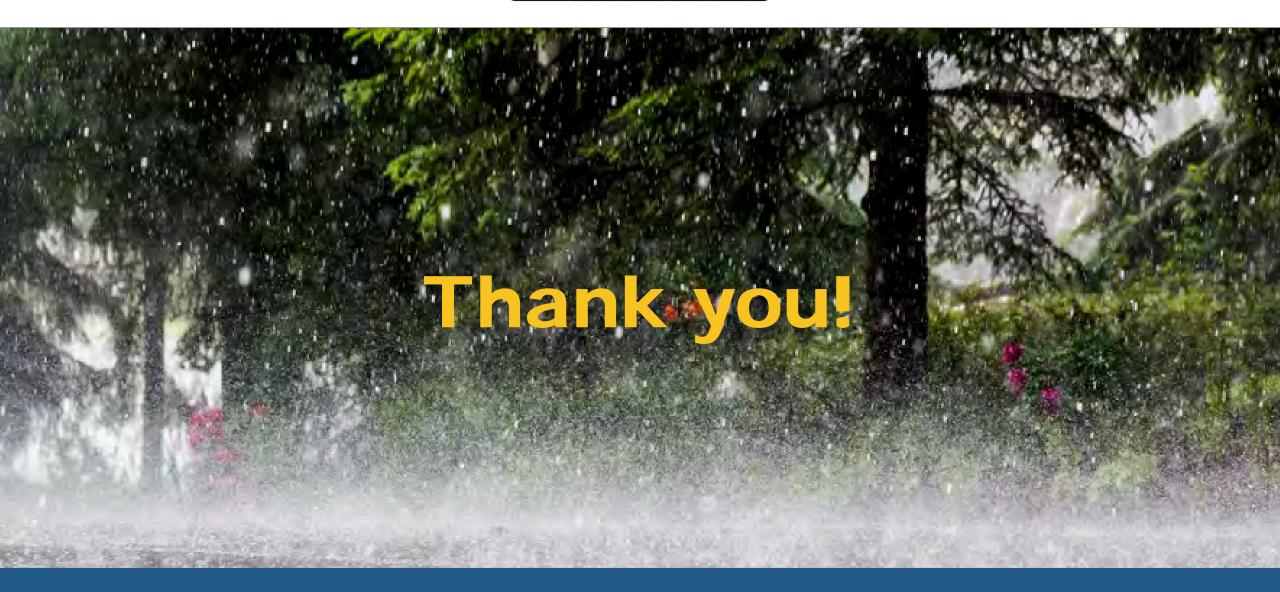












https://www.austintexas.gov/GuadalupeDrainage

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