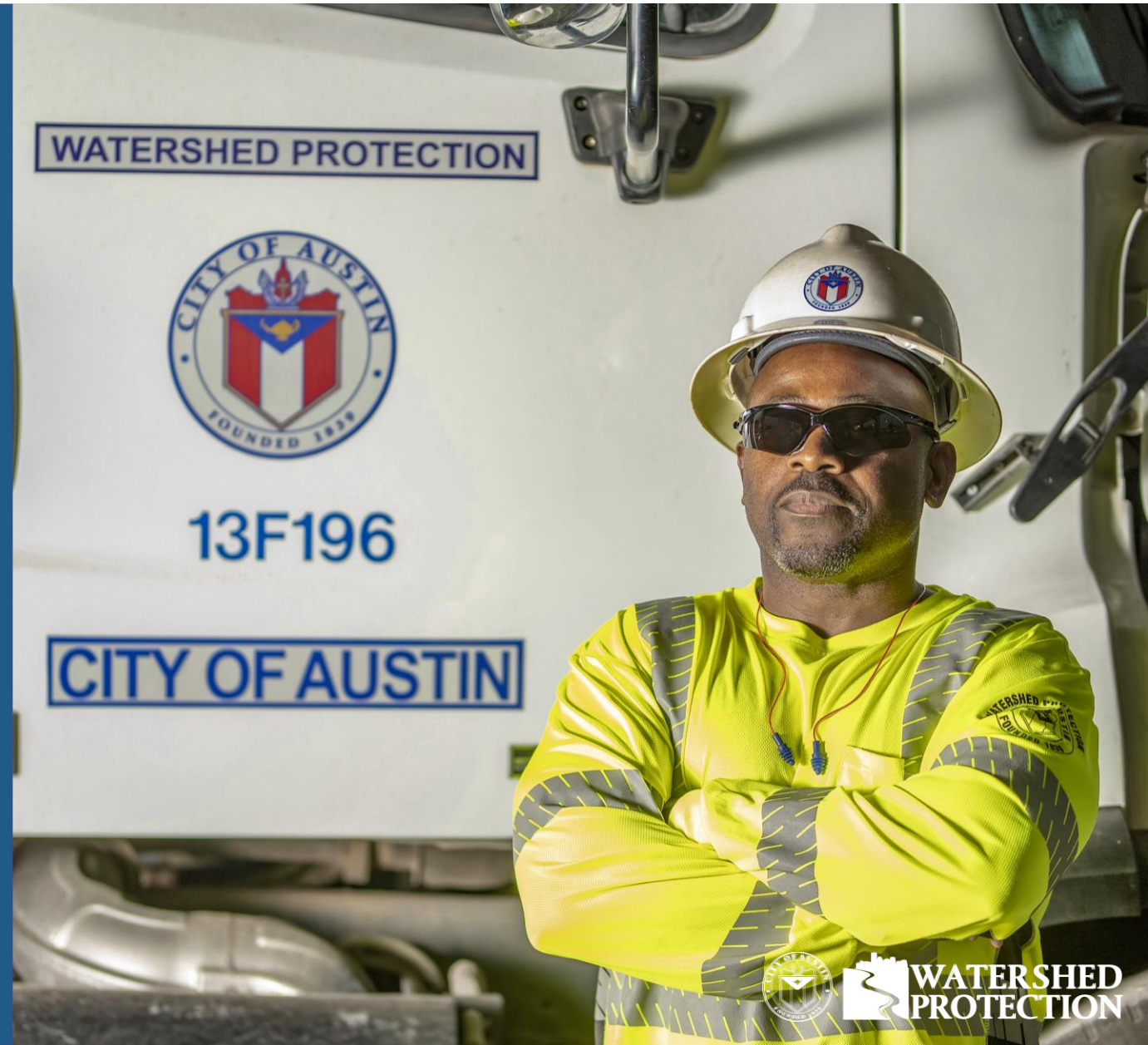


# Barton Creek Oak Park Local Flood Risk Reduction Project

September 17, 2024

# Watershed Protection

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



# Agenda

- Introductions
- Project Overview
- Current Status
- Timeline
- Questions



# Introduction

- Dario Octaviano – *Project Manager*
- Sharon Teague, P.E. – *Project Sponsor*
- Joan Esquivel – *Project Communications*
- RPS – *Project Consultant*



# Localized Flooding

Occurs away from creeks.



# Creek Flooding

Occurs when a creek rises over its banks.



## What is a Storm Drain System?

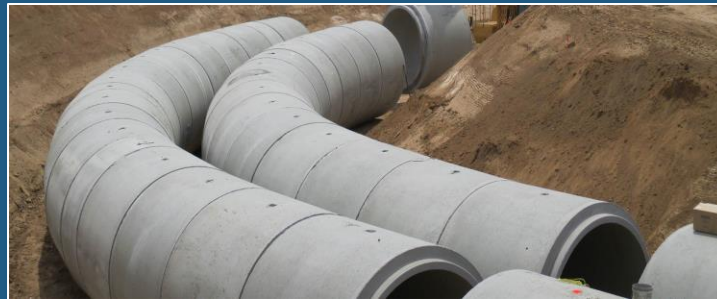
- System of streets, ditches, pipes and culverts
- Drains rainfall from streets to nearby creek
- Inlets are placed along curb to catch rainfall
- Streets should drain in most storms.

# Components of a Storm Drain System

1. Inlets and curbs capture rainwater.



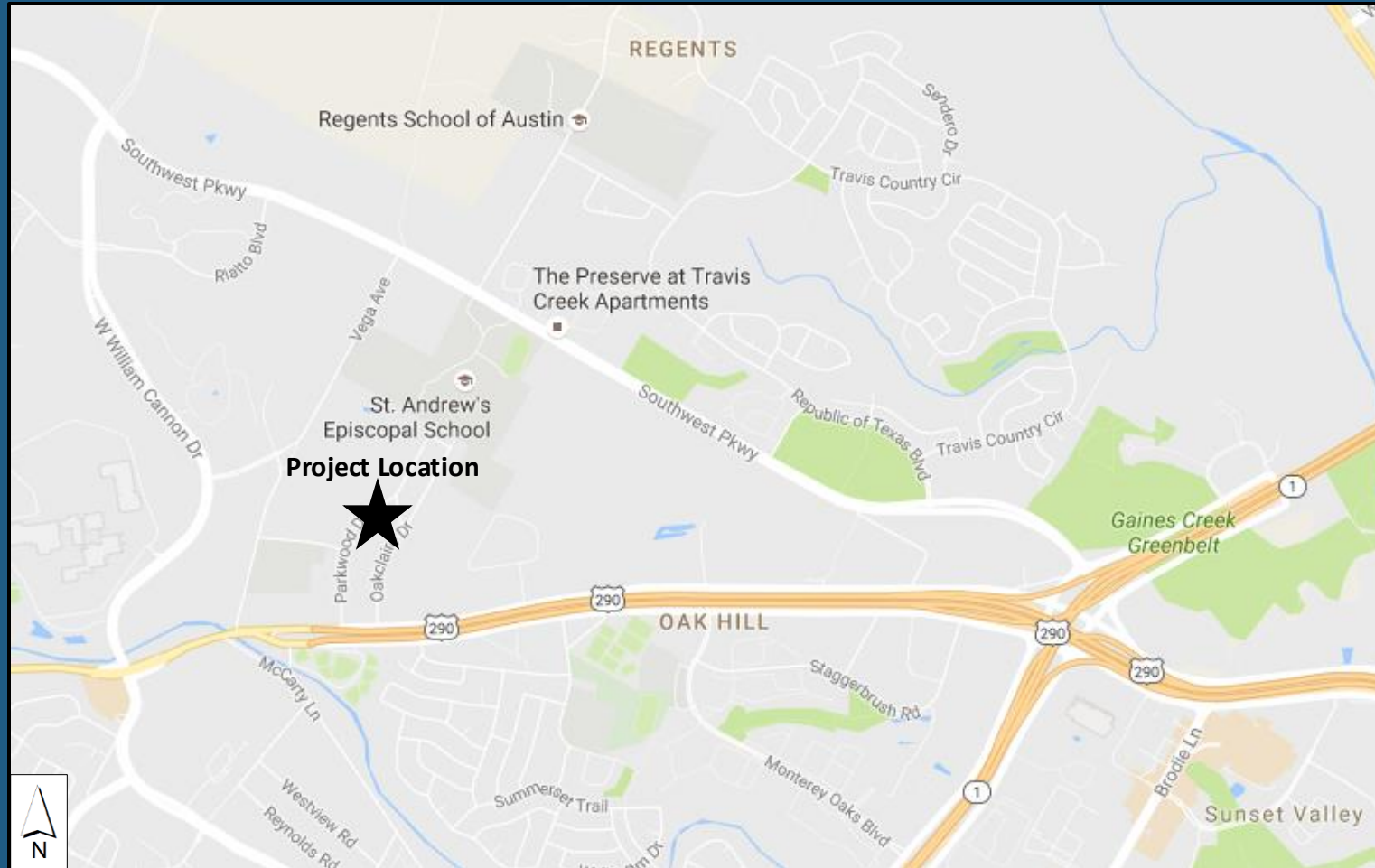
2. Underground pipes carry the water.



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



# Project Overview

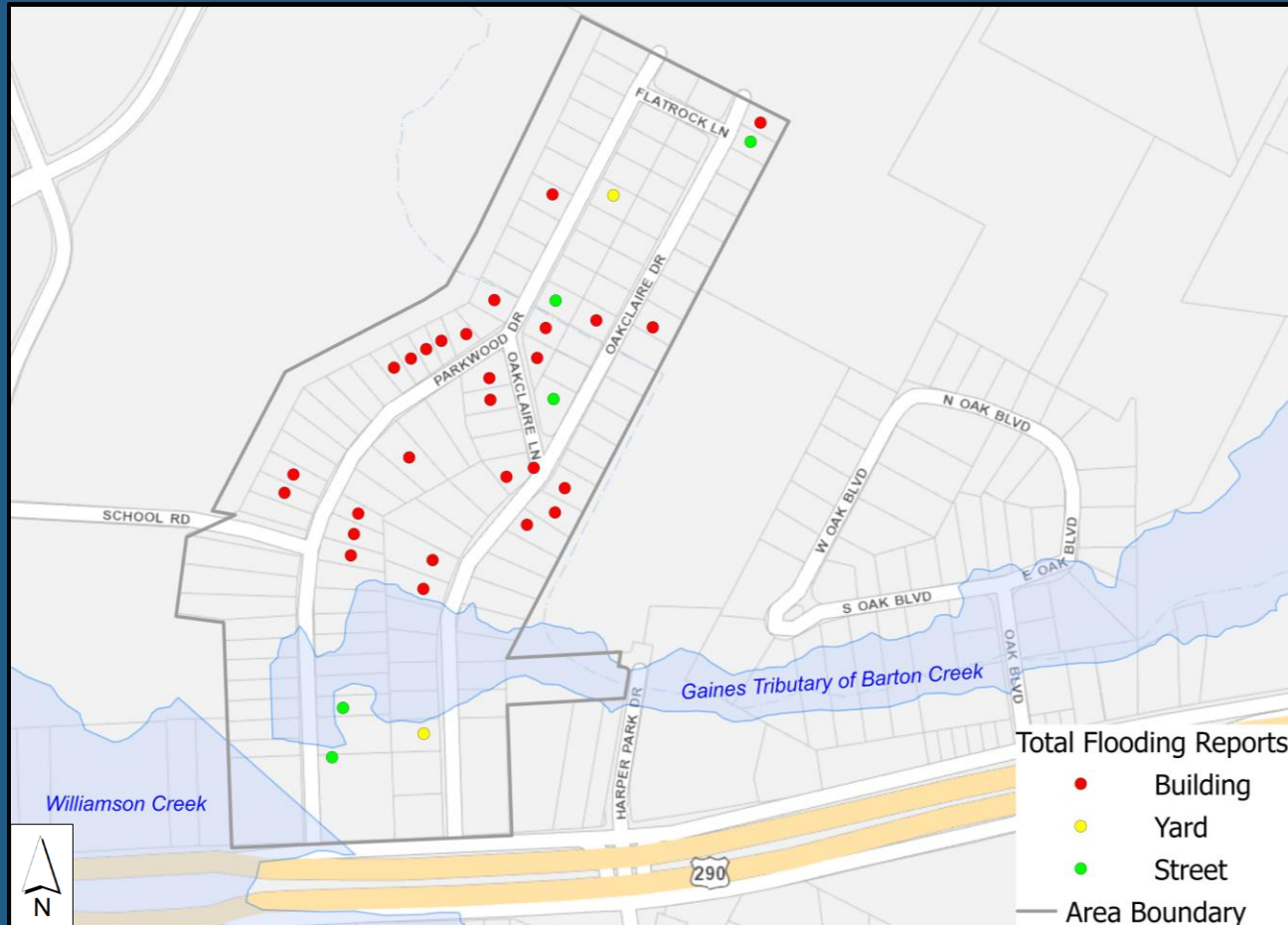




# Flooding Reports

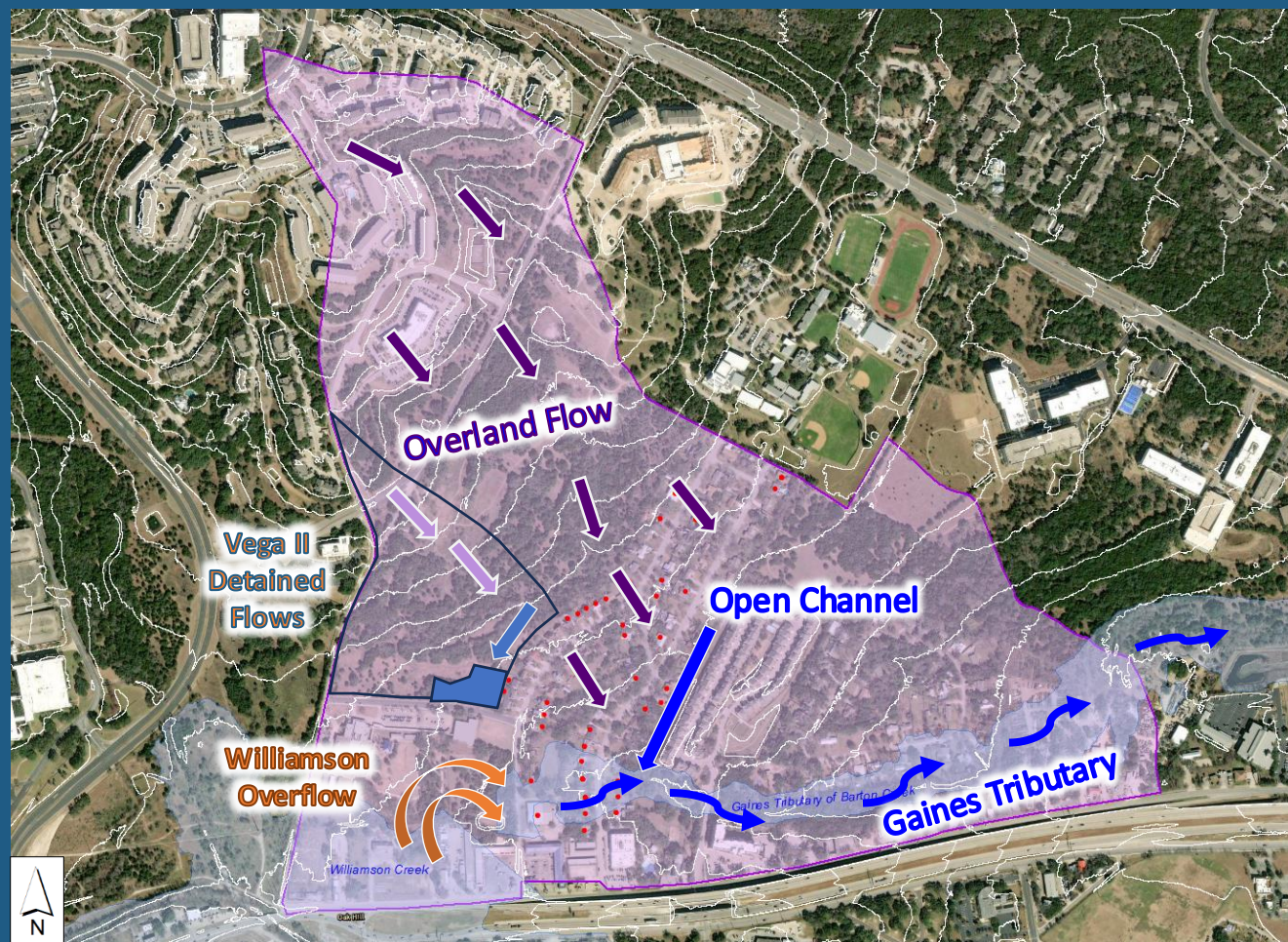
As of 2024

- 27 building flooding reports
- 2 yard flooding reports
- 5 street flooding reports



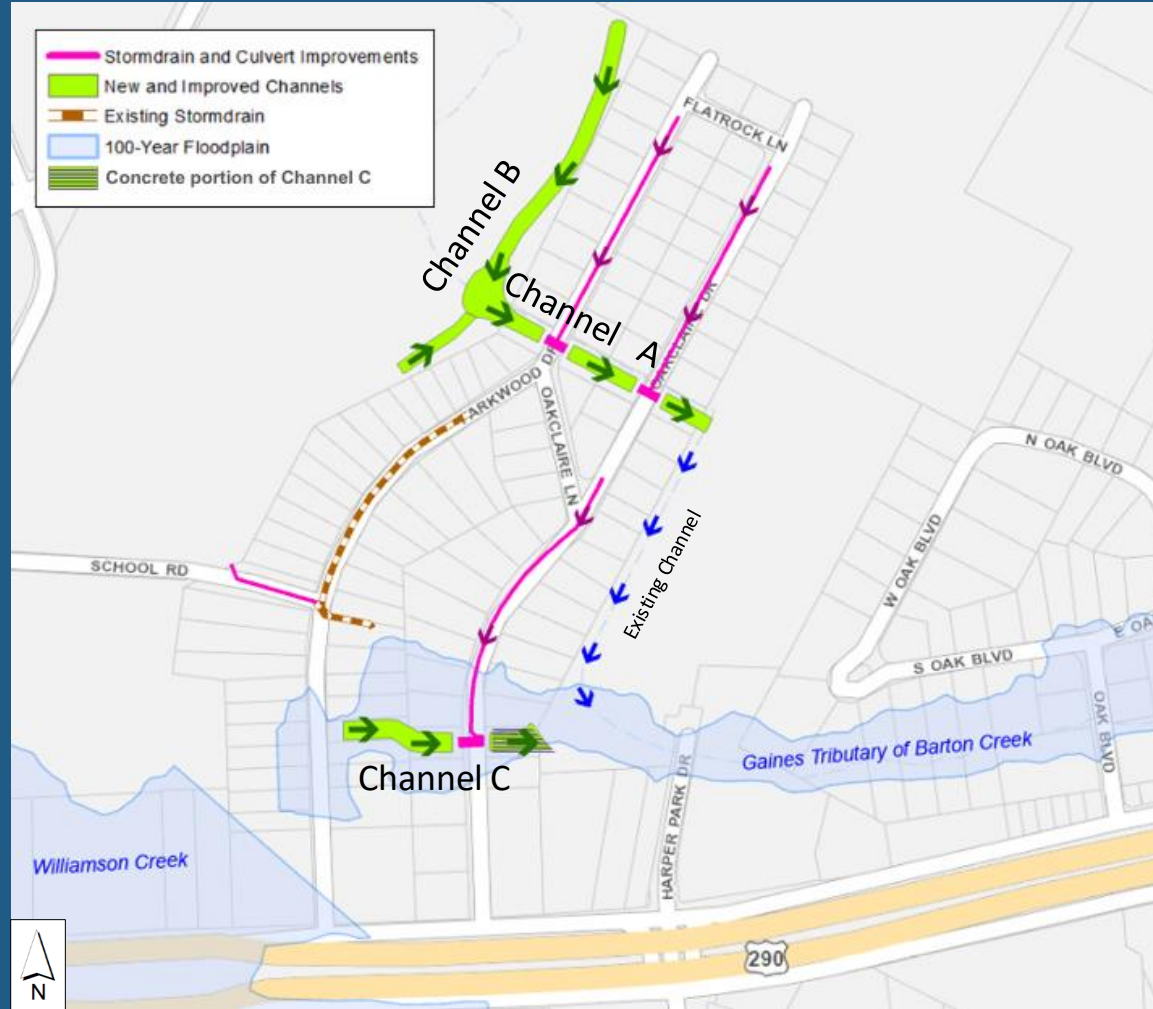
# Existing Conditions

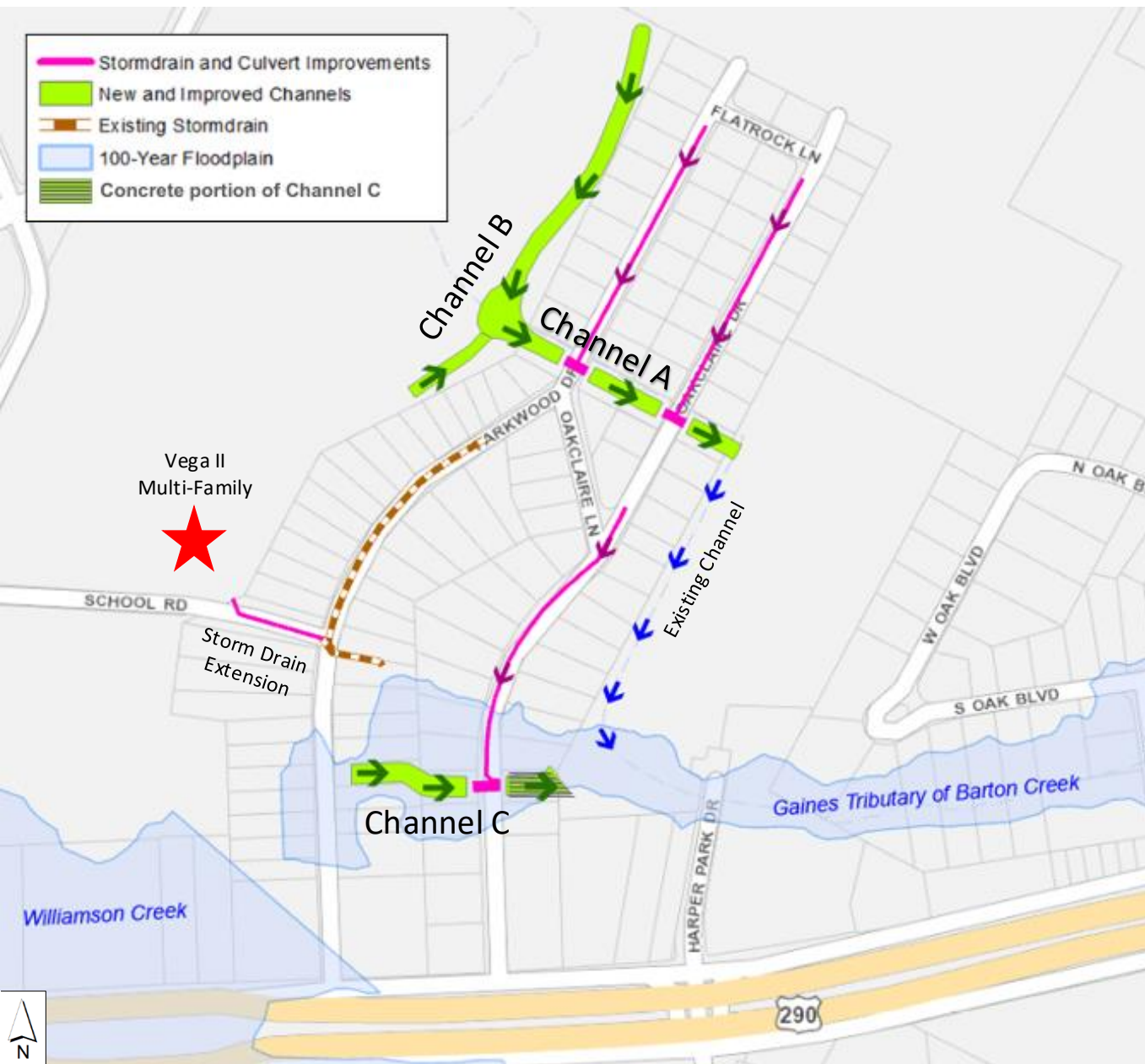
- Currently, overland flow enters an existing open channel and water travels into Gaines Tributary.
- Williamson Creek's overflow also enters Gaines Tributary.



- The Vega II site detains flows, which also enters Gaines Tributary.

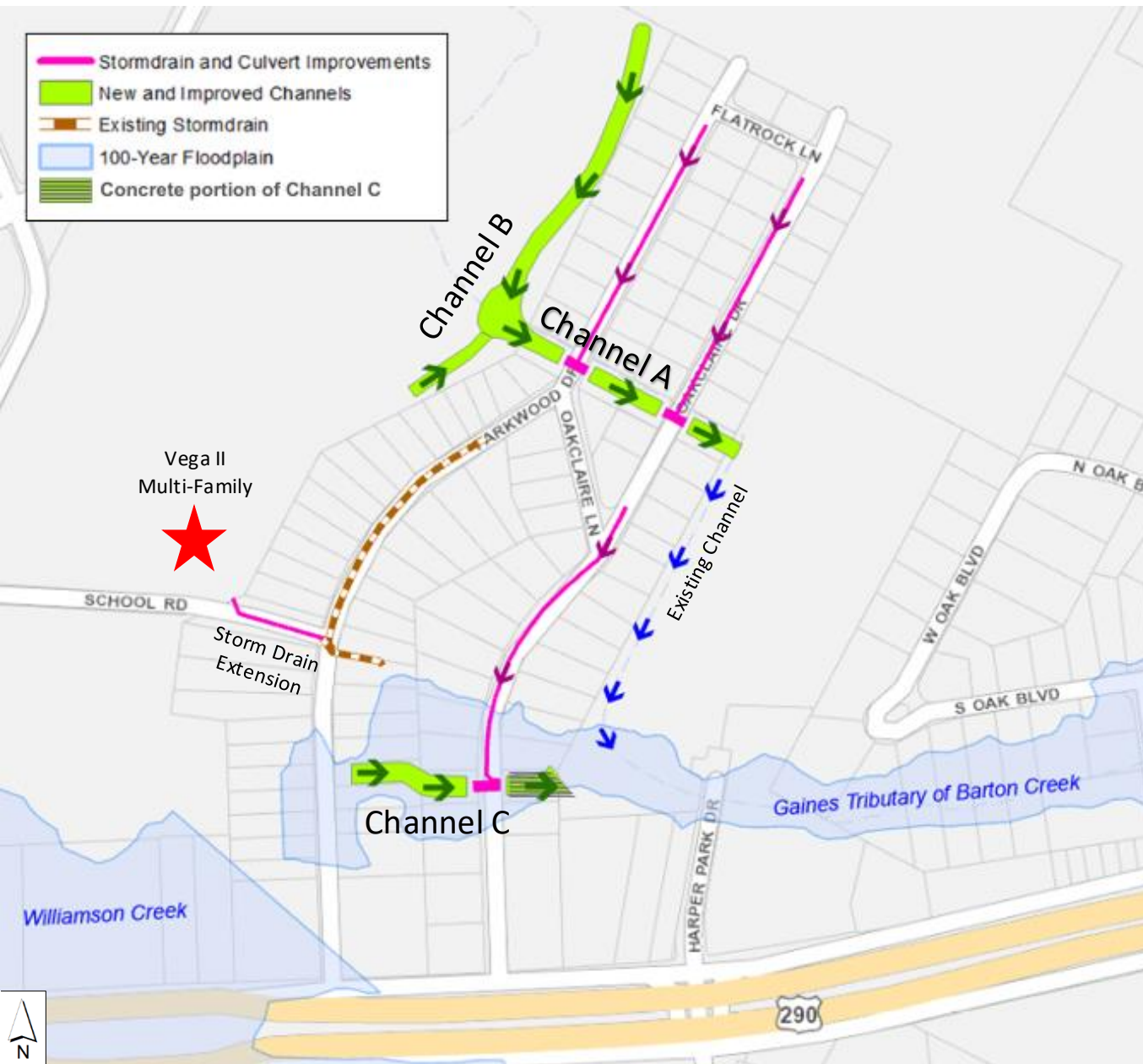
# Proposed Improvements





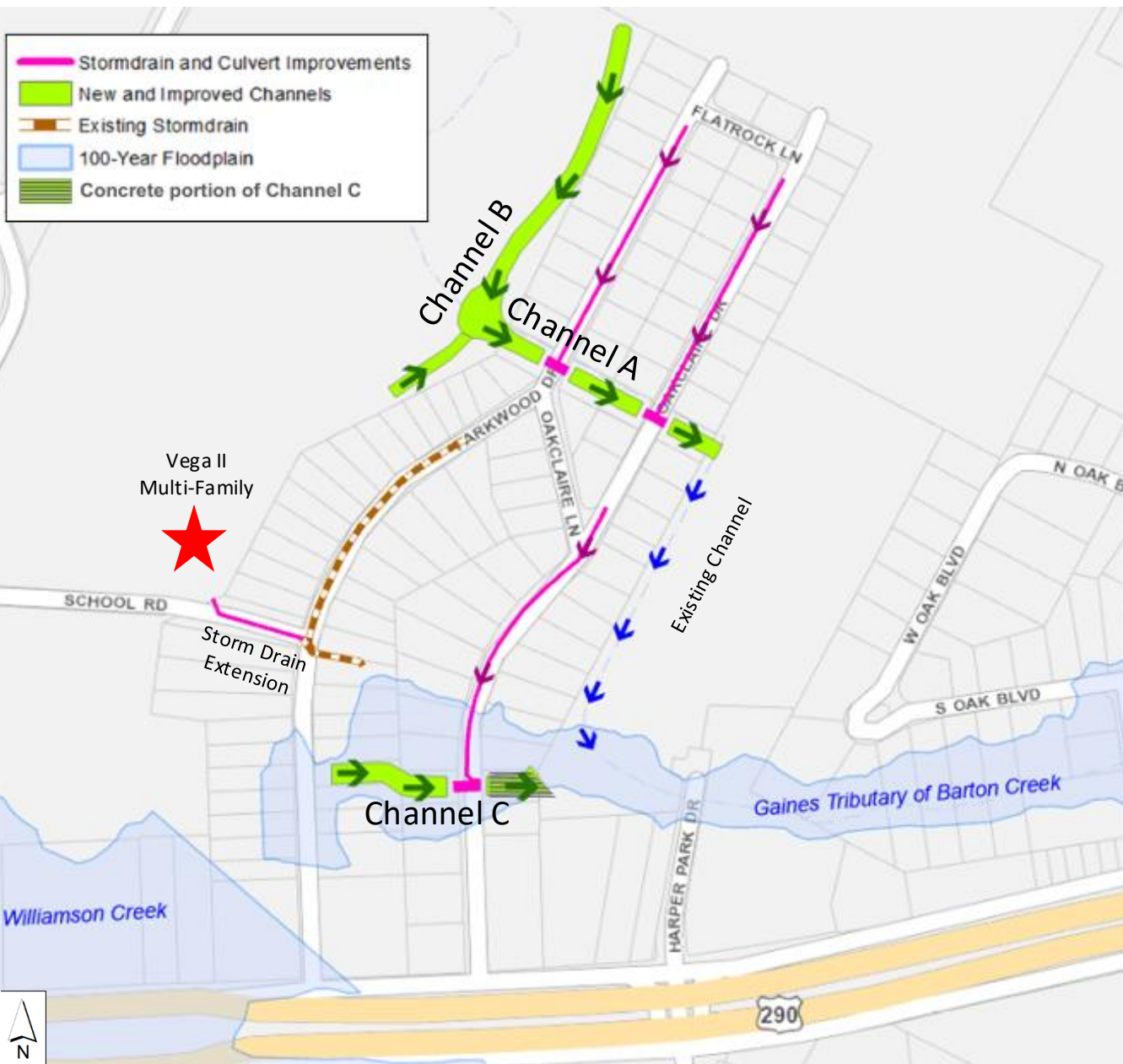
## Project Updates

- Properties have been acquired
- Design has been adjusted to account for updated rainfall data
- Partnered with developer of Vega II



## Vega II

- Currently under construction
- Partnered to install storm drain on School Road
- Development included stormwater detention pond



## Proposed Channels

Channel A, existing channel

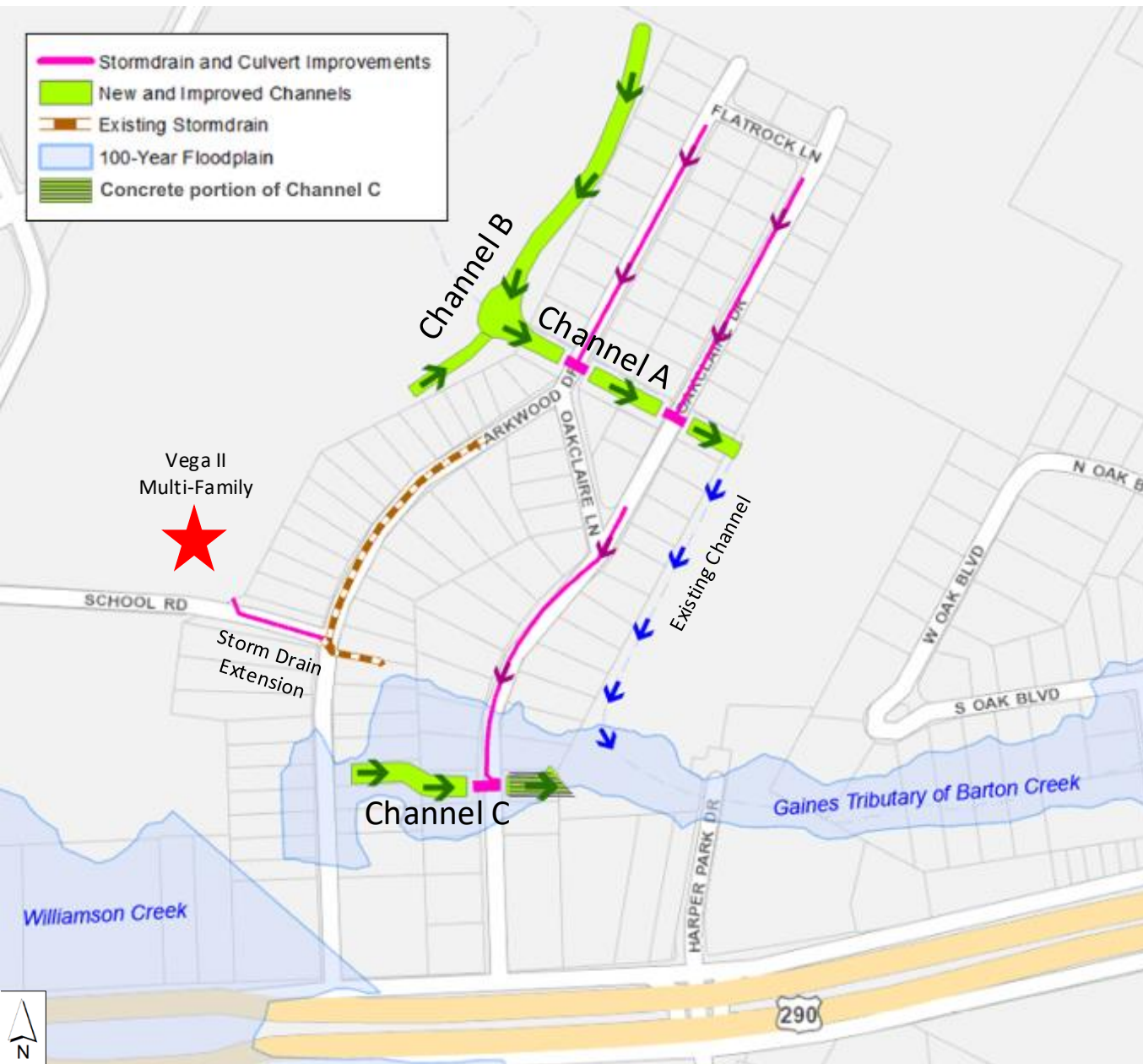
- Will have a natural look
- Will have grass on bottom and sides

Channel B, new channel

- Behind backyards
- Will have grass on bottom and sides

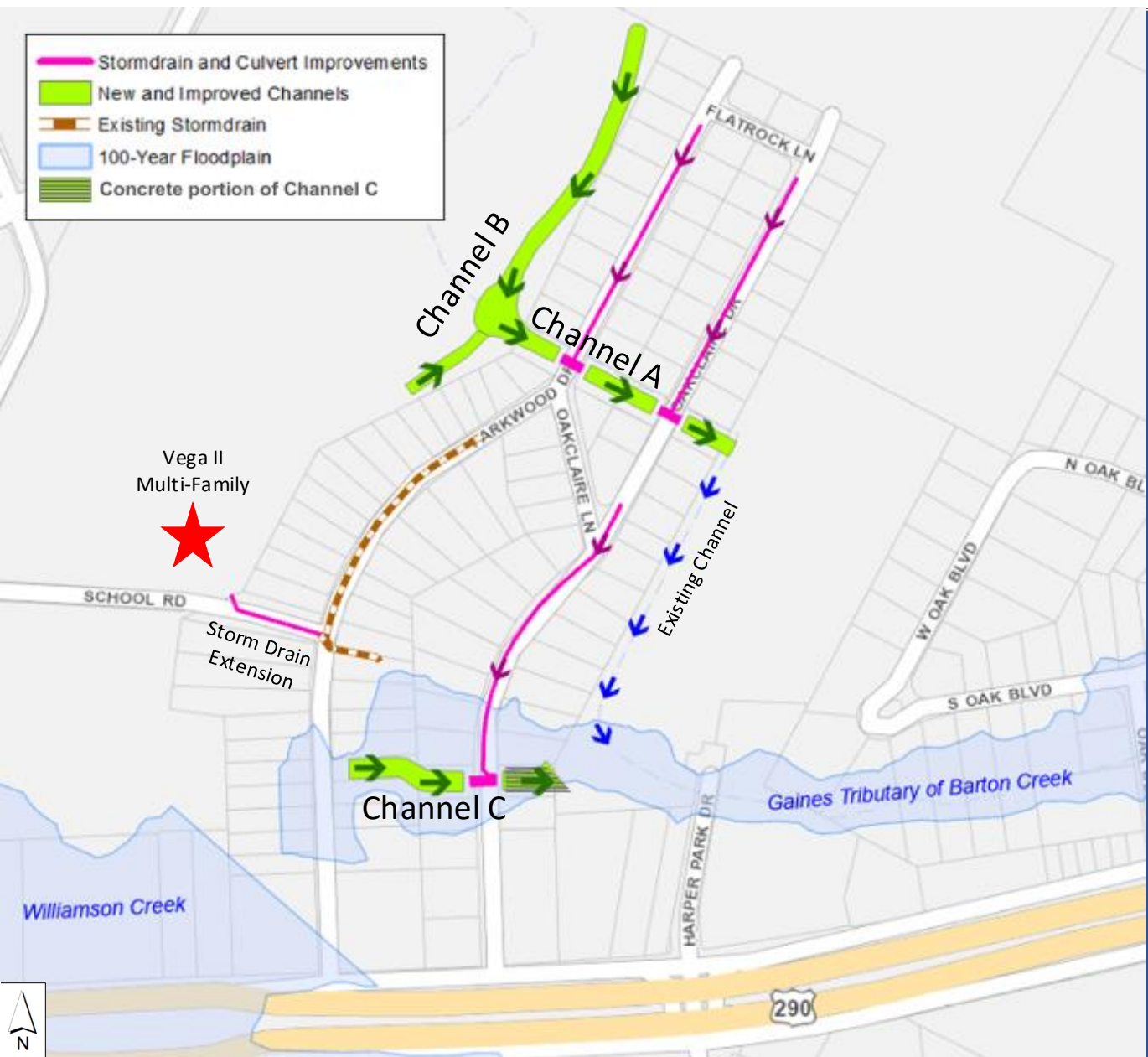
Channel C, existing channel

- Part will have stones on bottom and grass on sides
- Part will be concrete
- Concrete is required by TCEQ



## Proposed Pipes and Culverts

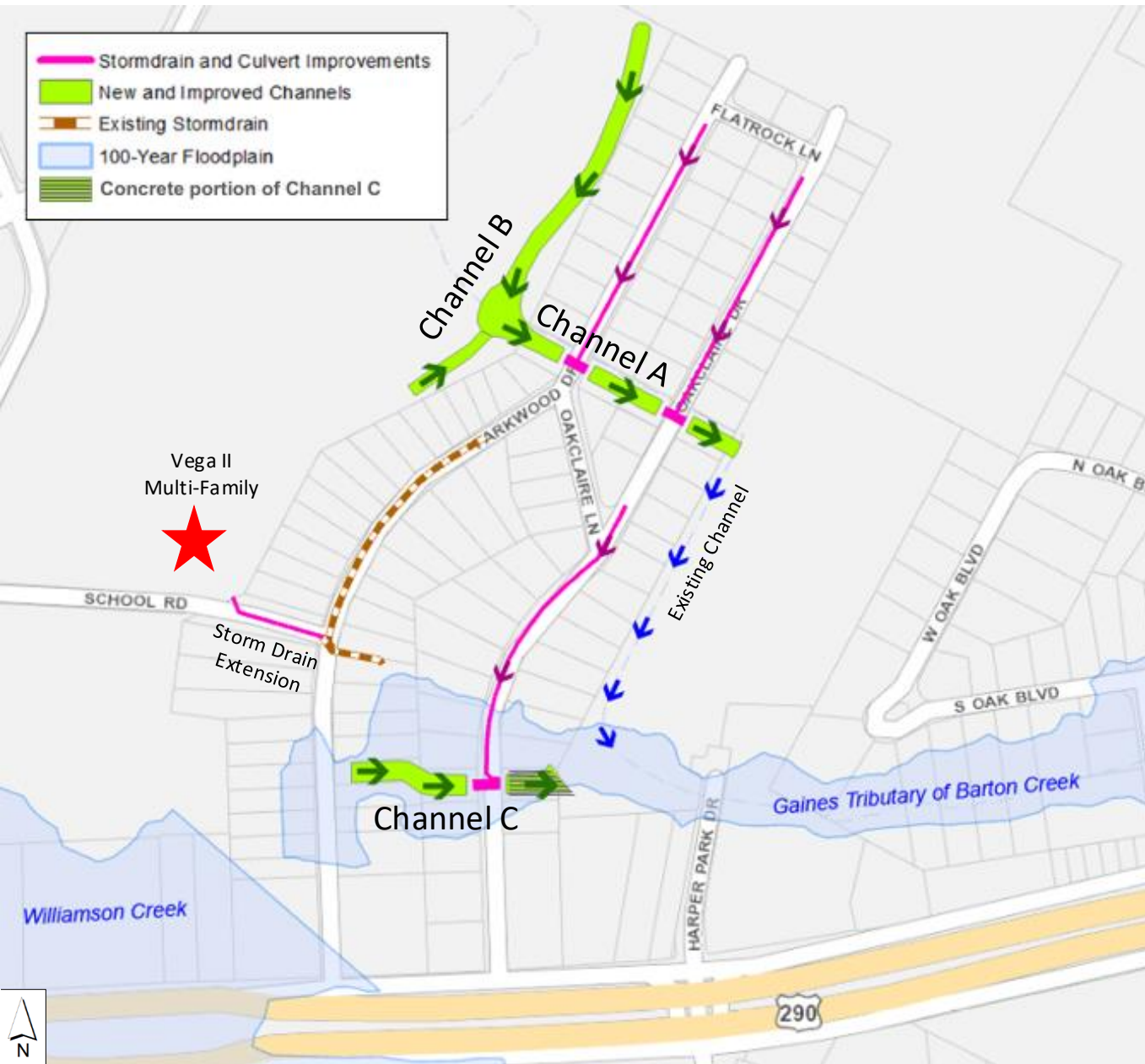
- New storm drain pipes along Parkwood Drive and Oakclaire Drive north
- New storm drain pipe along Oakclaire Drive south
- Upgrade culverts on Channel A at Parkwood & Oakclaire and Upgrade culverts on Channel C at Oakclaire
  - Larger culverts
  - More culverts



# Results

- Reduces local flooding of houses, roads and yards
- Does not impact the floodplain
- Flood risk along the creek will remain the same

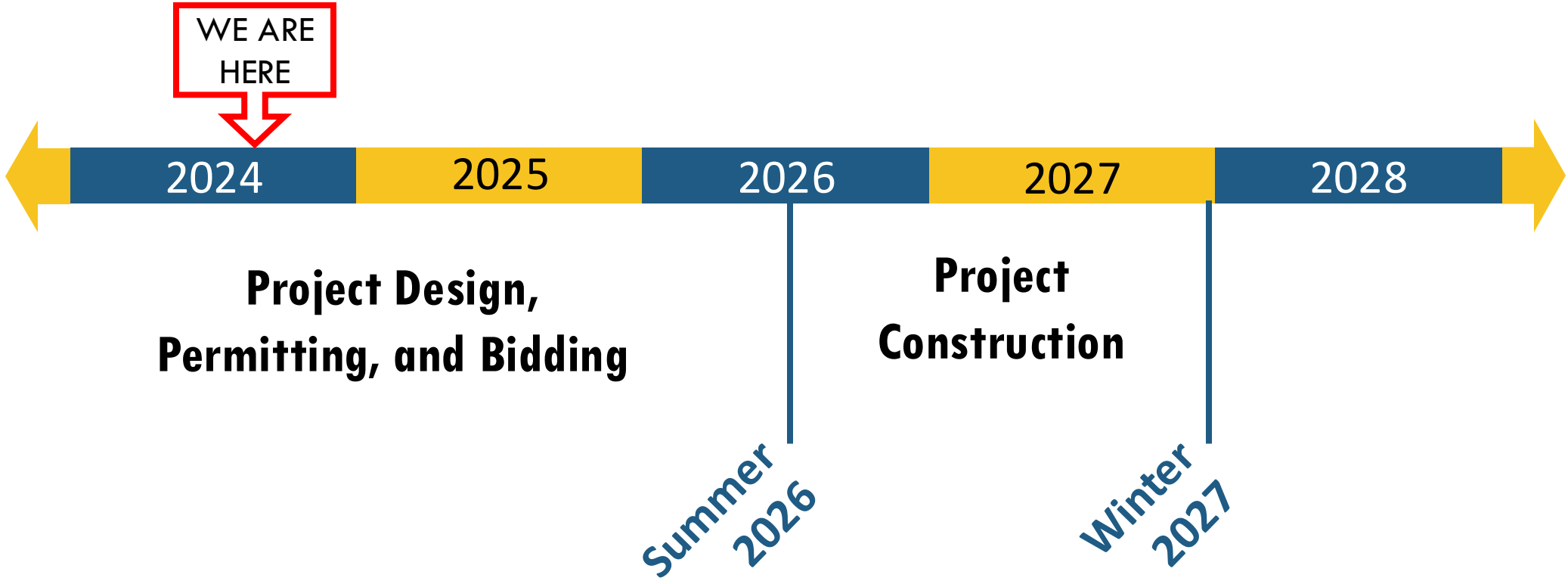




## Next Steps

- Obtaining easements
- Submitting for permits
- There will be at least a year's delay for the permitting process due to environmental sensitivity which extends the timeline
- Construction dependent on the bridge upgrade over Oak Blvd.
- Construction dependent on the availability of funding

# Calendar Year Timeline\*

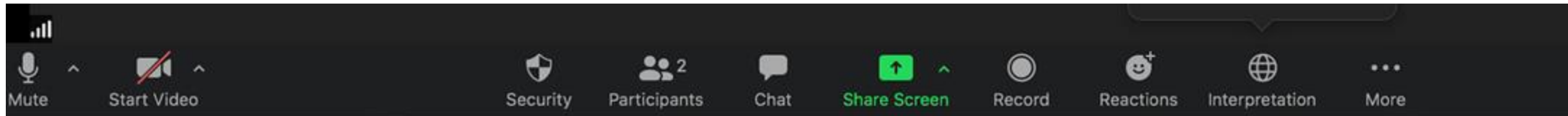


\* This is an estimated timeline based on current best known information and anticipated available budget

# Question and Answer

## How to Ask Questions

1. Click on Chat to type your question.
2. Click on Reactions to raise your hand.



3. On a phone, click on “More” to access the chat or raise your hand.



# 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

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# Typical Channel Shapes

