



Richmond Tributary to Williamson Creek Stream Rehabilitation

PUBLIC MEETING

July 19, 2023

www.AustinTexas.gov/RichmondTributary



Welcome and Agenda

Introductions

Watershed Protection Department

Project Scope

Preliminary Design

Schedule and Next Steps

Public Input





Introductions

Sponsoring Department: Watershed Protection Department

Project Sponsor: Eric Loucks, PE

Communications: Becca Villareal

Managing Department: Department of Transportation and Public Works

Project Manager: Ria Yamaguchi

Consulting Engineer: Jacobs

Project Manager: Hollie Campbell, PE

Project Technical Manager: Jill Davenport, PE

Watershed Protection Department

Mission:

Protect lives, property, and the environment of our community by reducing the impact of

- Flooding
- Erosion
- Water Pollution





Flooding





Erosion





Water Quality





Current Issues – Project Goals

- **Creek bottom and banks eroding**
 - **Damage to public and private property**
 - **Water pollution**
 - **Degradation of stream**

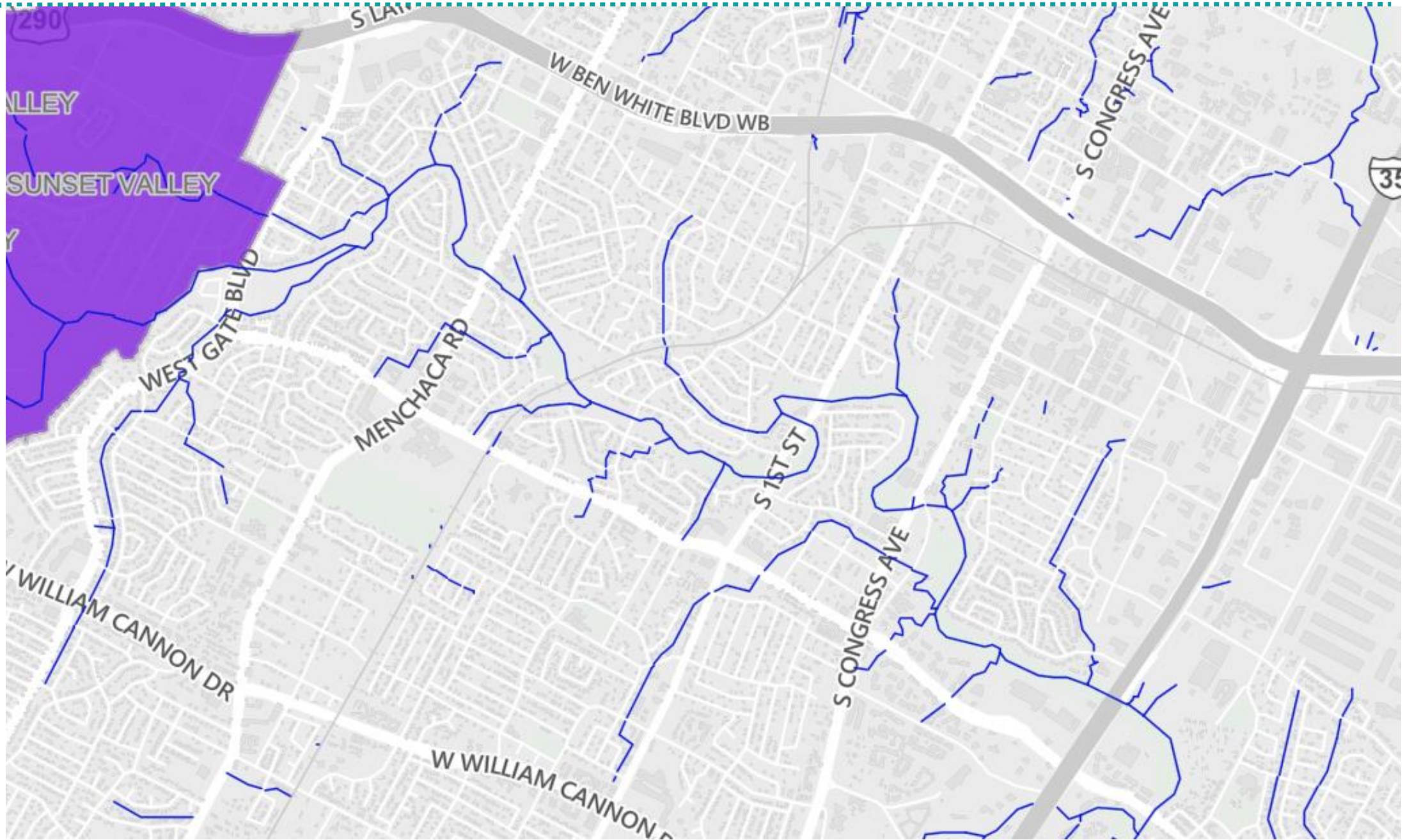


The project will not worsen flooding

- **Stabilize and repair channel**
- **Relocate wastewater lines from creek**
- **Protect trees in yards**
- **Plant native vegetation**

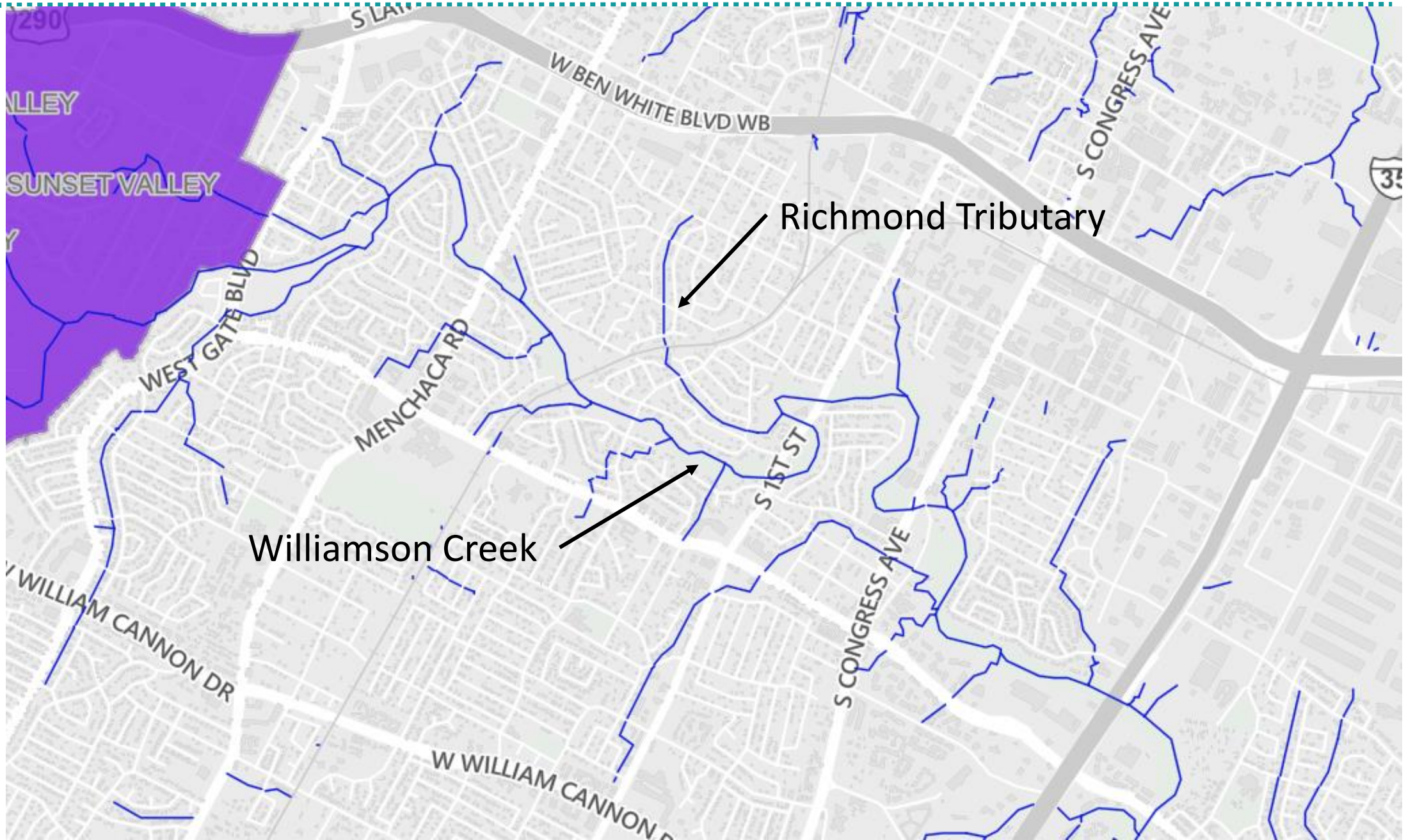


Location Map



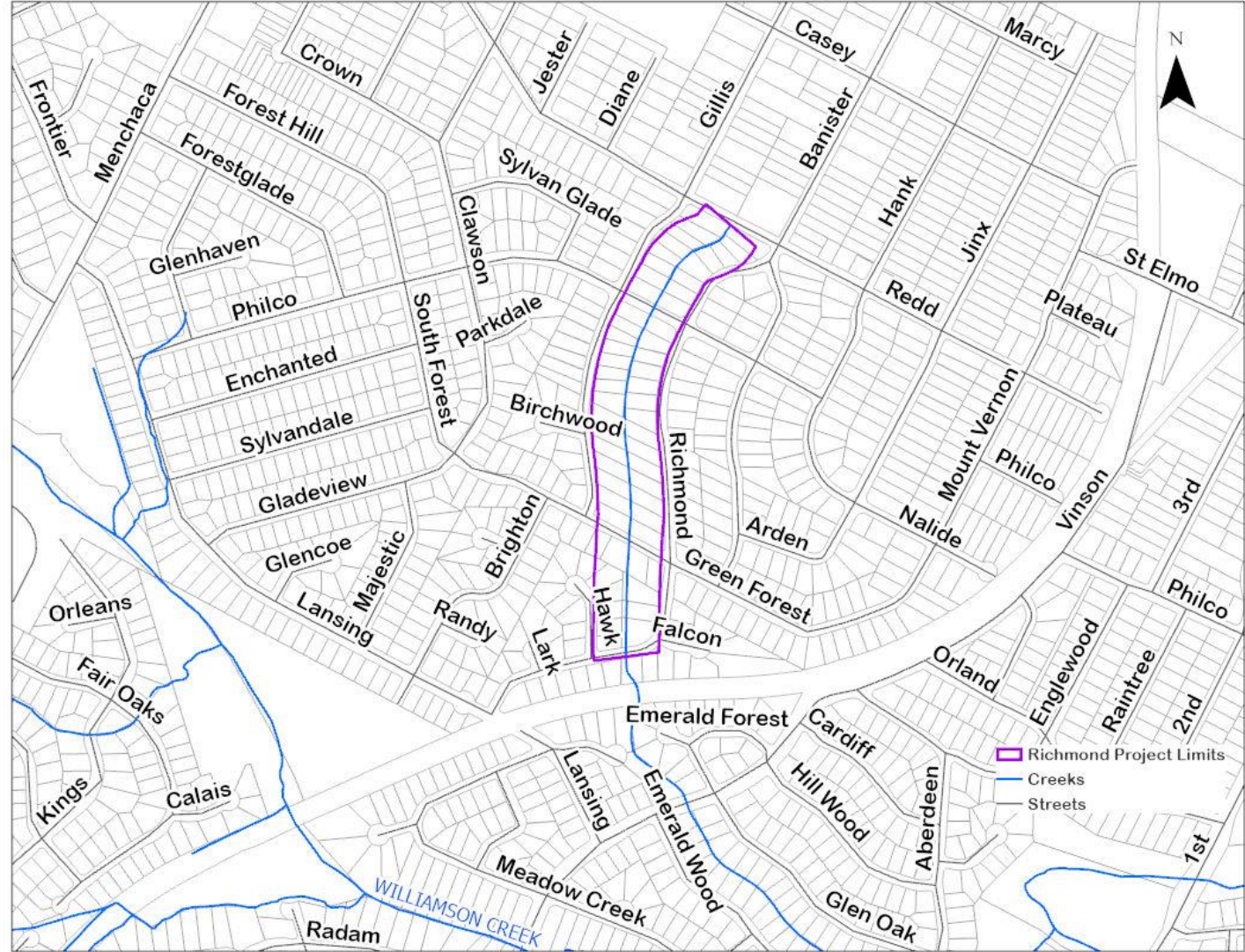


Location Map





Location Map





Problem Description



Widespread incision, channel widening, bank erosion

Eleven documented active erosion sites in the reach:

- **1 Building**
- **2 Yards**
- **5 Fences**
- **Wastewater line**
- **2 Culverts**



Problem Photos





Problem Photos





Problem Photos





Problem Photos



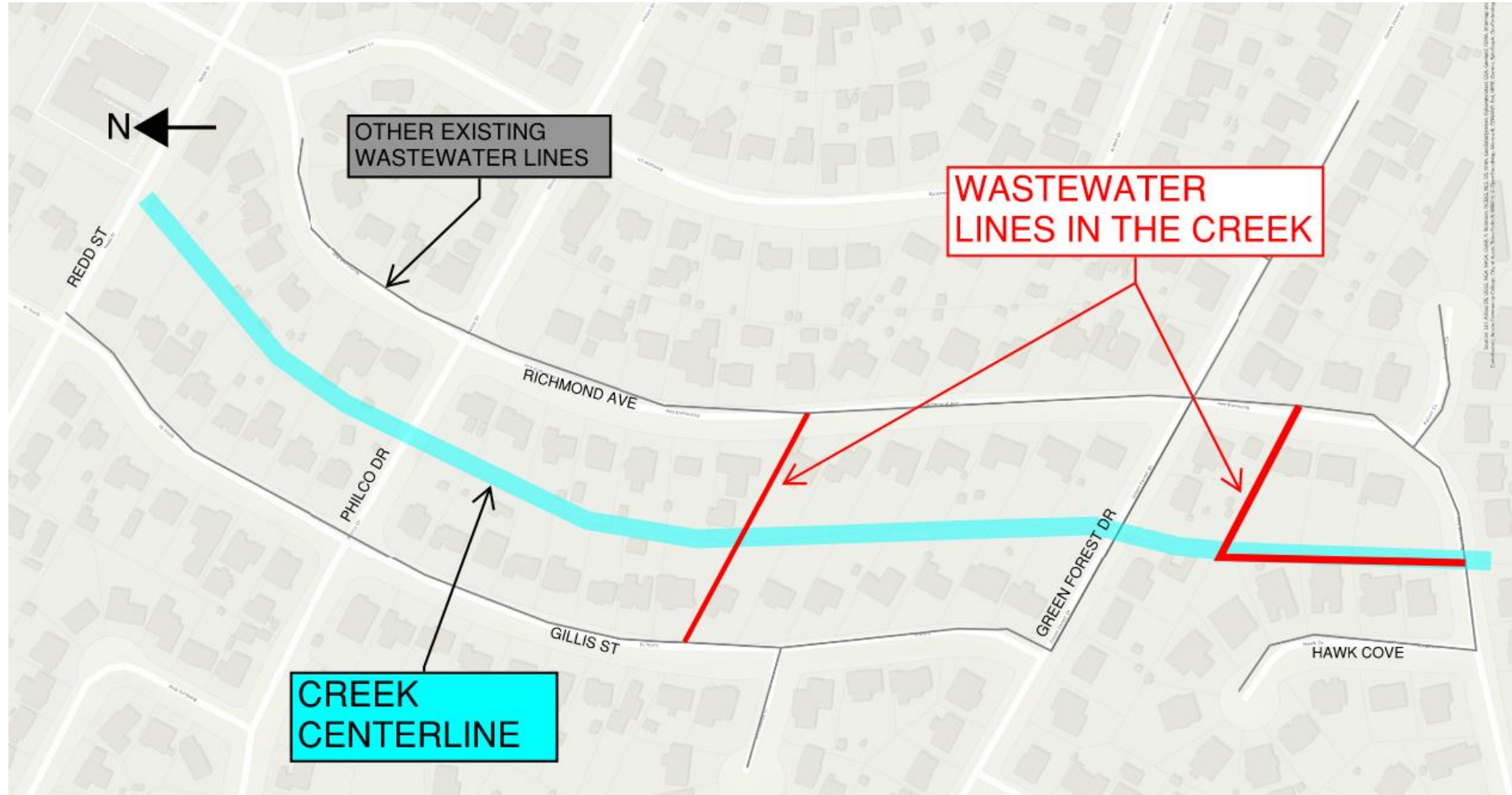


Problem Photos – Green Forest





Problem Photos



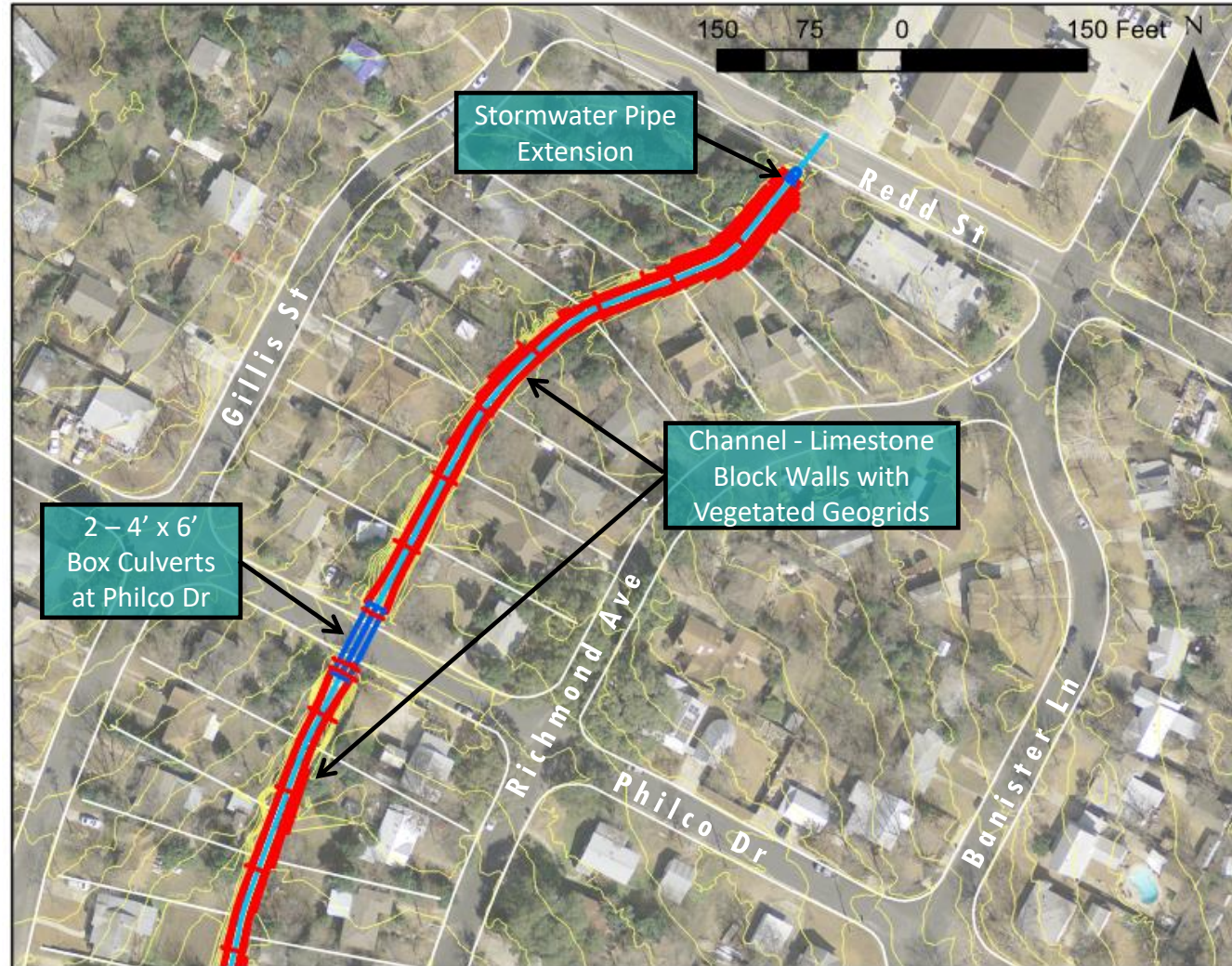


Proposed Solution

- **Channel Improvements, Redd St to Green Forest Dr**
 - **Limestone Block Walls**
 - **Rock Riprap Channel Bottom**
 - **Vegetated Geogrids (Erosion Blanket Wrapped Soil)**
 - **Native Plantings**
- **Stormwater Pipe Extension at Redd St**
- **Culvert Replacements at Philco Dr & Green Forest Dr**
- **Wastewater Pipe Relocations & Upgrades**

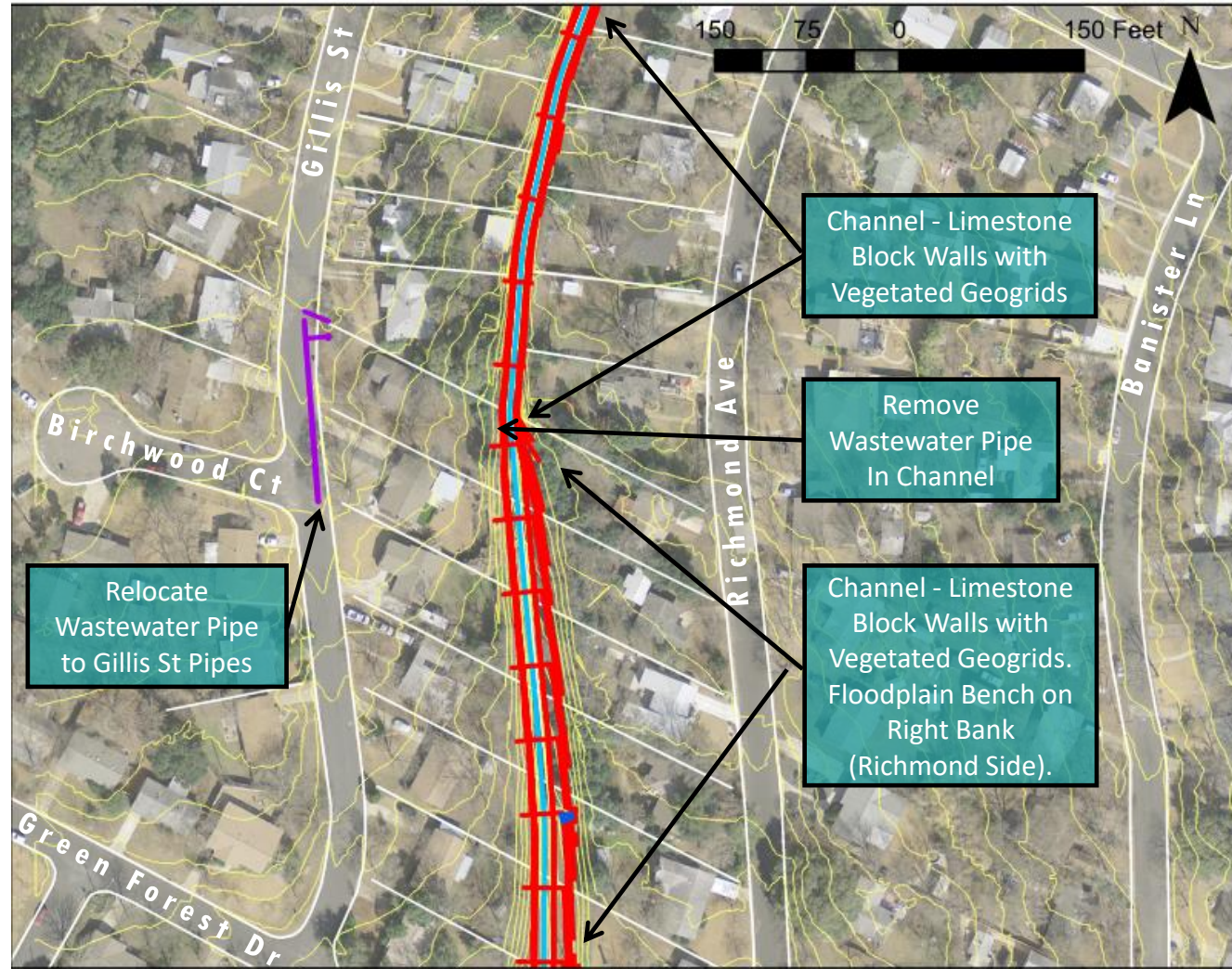


Proposed Solution



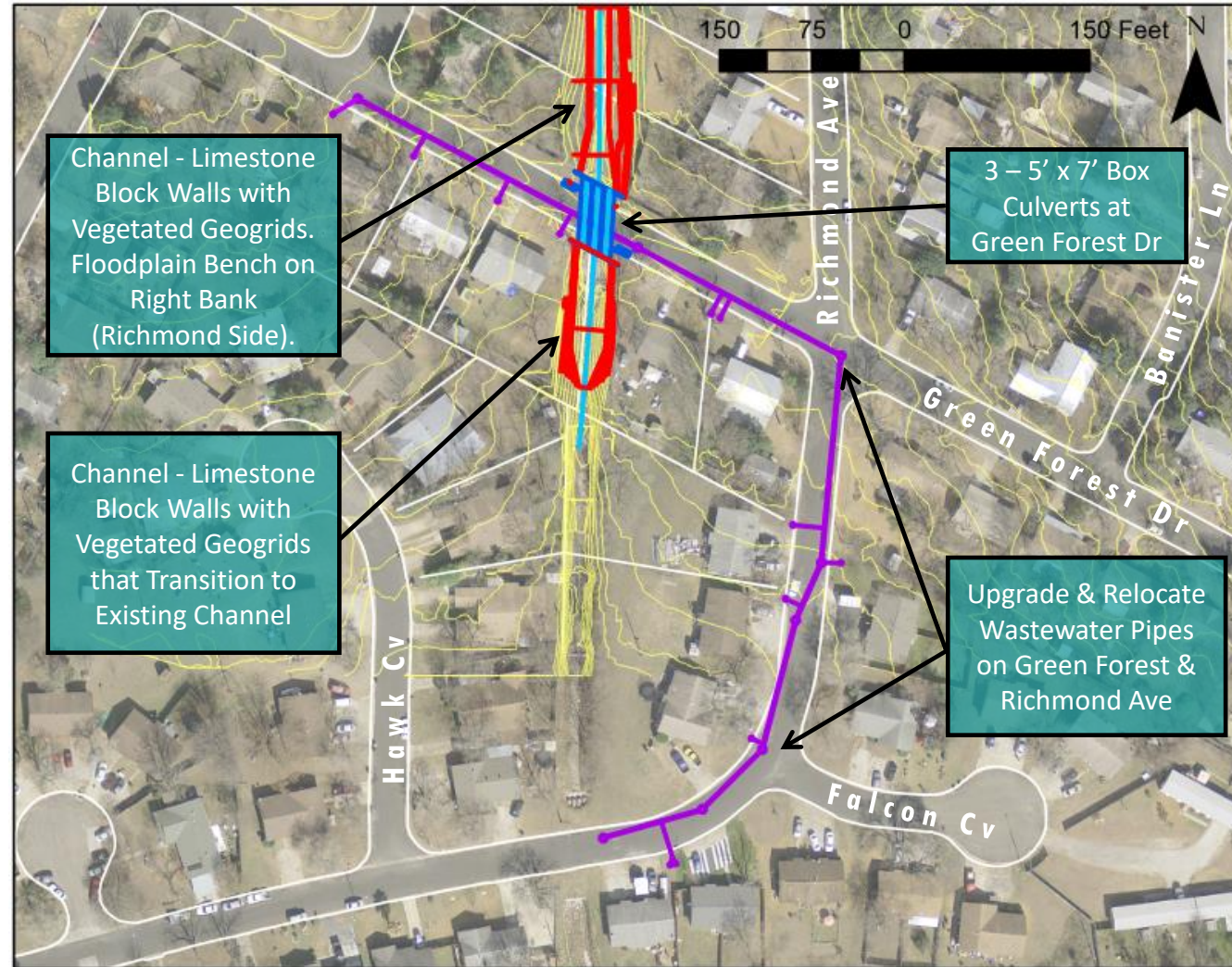


Proposed Solution



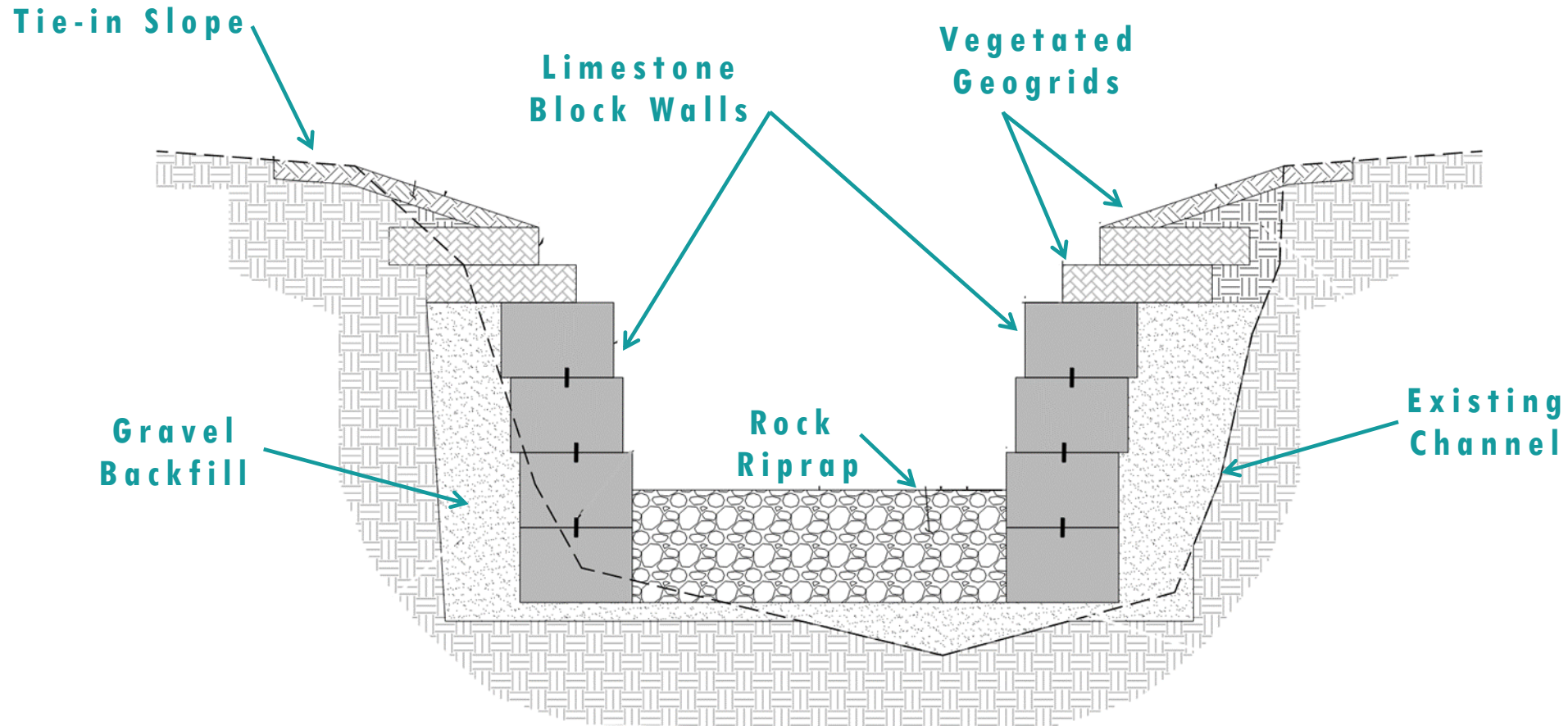


Proposed Solution



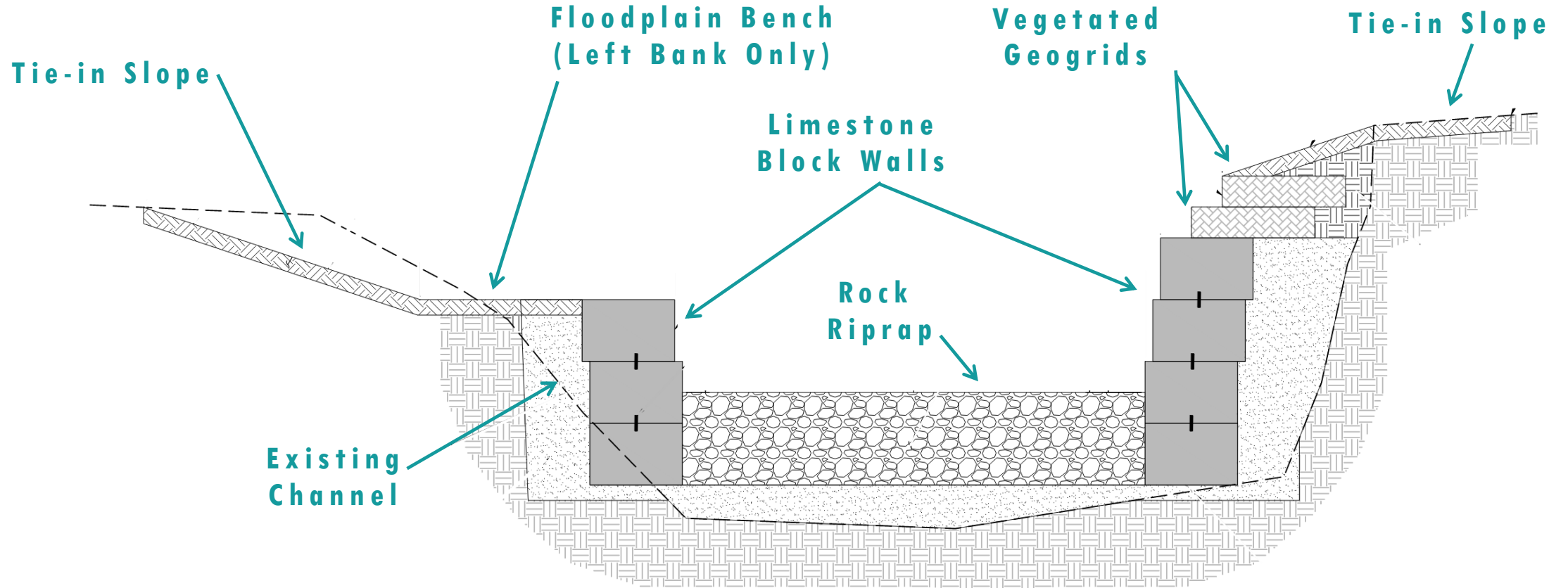


Proposed Solution – Typical Section





Proposed Solution – Section Near Green Forest





Proposed Solution - Plants

Small Trees & Shrubs on Slopes & Bank Tops

Wildflowers on Bench

- BUTTERFLY MILKWEED
- INDIAN BLANKET
- MAXIMILIAN
- SUNFLOWER
- GAYFEATHER
- BEEBALM
- MEXICAN HAT
- BLACK-EYED SUSAN
- PENSTEMON SAGE

Native Grasses in Vegetated Geogrids

- SIDEOATS GRAMA
- TEXAS SEDGE
- GULF MUHLY
- BIG MUHLY
- MEXICAN FEATHERGRASS
- SWITCHGRASS
- LITTLE BLUESTEM

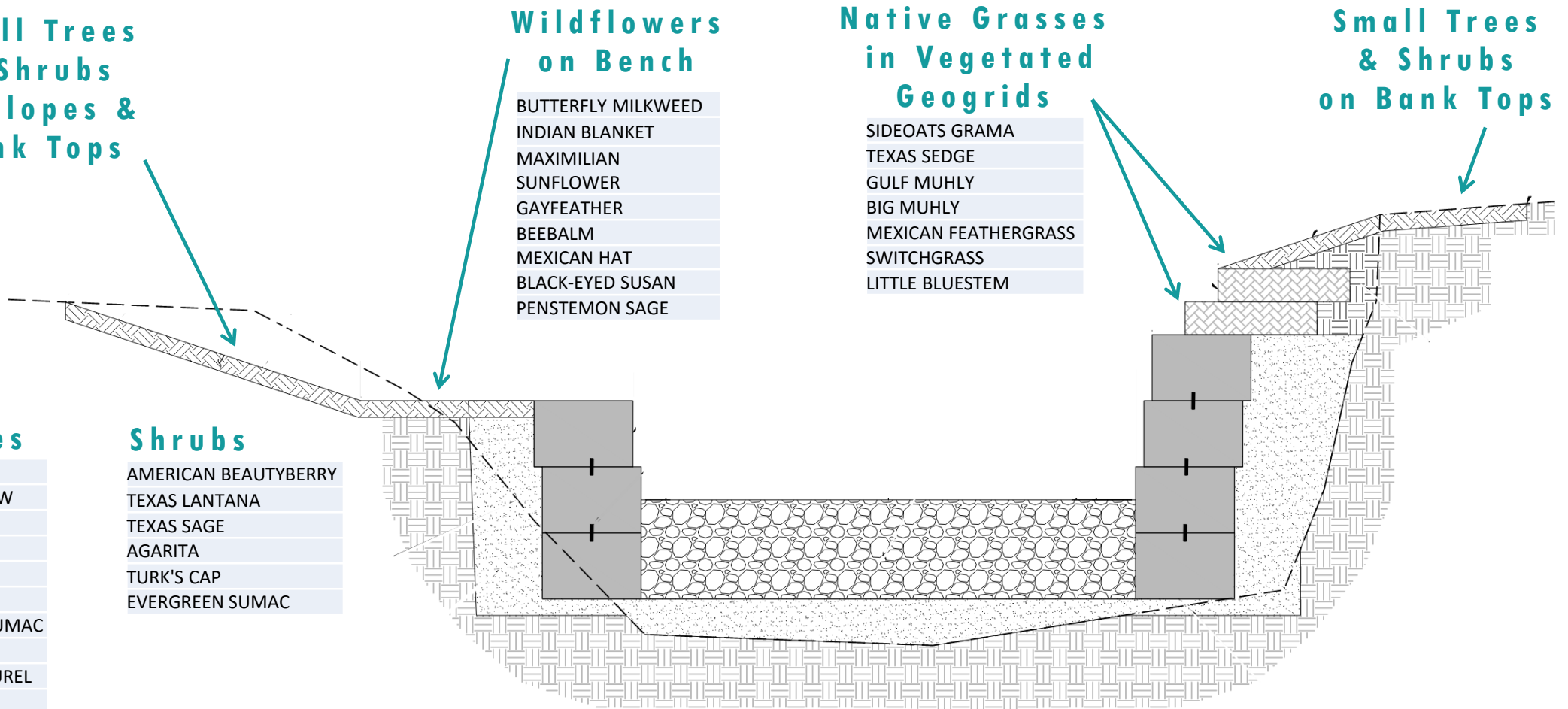
Small Trees & Shrubs on Bank Tops

Small Trees

- TEXAS REDBUD
- BUBBA DESERT WILLOW
- TEXAS PERSIMMON
- POSSUMHAW
- YAUPON HOLLY
- MEXICAN PLUM
- PRAIRIE FLAMELEAF SUMAC
- EVE'S NECKLACE
- TEXAS MOUNTAIN LAUREL
- MEXICAN BUCKEYE

Shrubs

- AMERICAN BEAUTYBERRY
- TEXAS LANTANA
- TEXAS SAGE
- AGARITA
- TURK'S CAP
- EVERGREEN SUMAC





Proposed Solution - Examples





Next Steps/Schedule

Currently completing Design Drawings and acquiring required Construction Easements.

Current Schedule

- **Complete Design in February 2024**
- **Start Construction in Fall 2024**
- **Construction will require 18 months**



Questions and Answers

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Public Works**

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