

# WELCOME

Westside Creeks

Ecosystem Restoration:

**Apache Creek** Initial Design Update



Presented by: US Army Corps of Engineers  
San Antonio River Authority

Tuesday, September 19, 2023



**US Army Corps  
of Engineers®**



**SAN ANTONIO  
RIVER AUTHORITY**

# Ways to Participate in the Design Process

- Follow project updates online at [westsidecreeks.com](https://westsidecreeks.com)
  - Presentations posted online in English and Spanish
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- Attend Westside Creeks Oversight Committee Meetings
  - Next: October 17, 2023
  - RA Boardroom 6 PM



# Part 1: Project Background

Rebecca Krug, Sr. Project Manager



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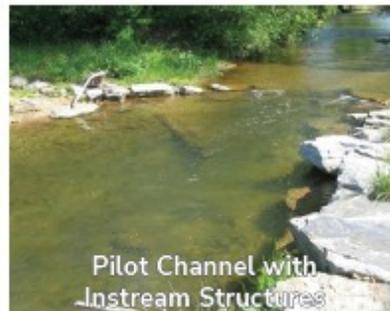
# Overview

Federal project partnership with US Army Corps of Engineers to restore channelized Westside Creeks and improve community connectivity.

## EXISTING CONDITIONS



## RESTORATION MEASURES



## Project Team

Federal Sponsor:



**US Army Corps  
of Engineers®**

Non-Federal Sponsor:



Local Funding Partner:



Architect – Engineer:



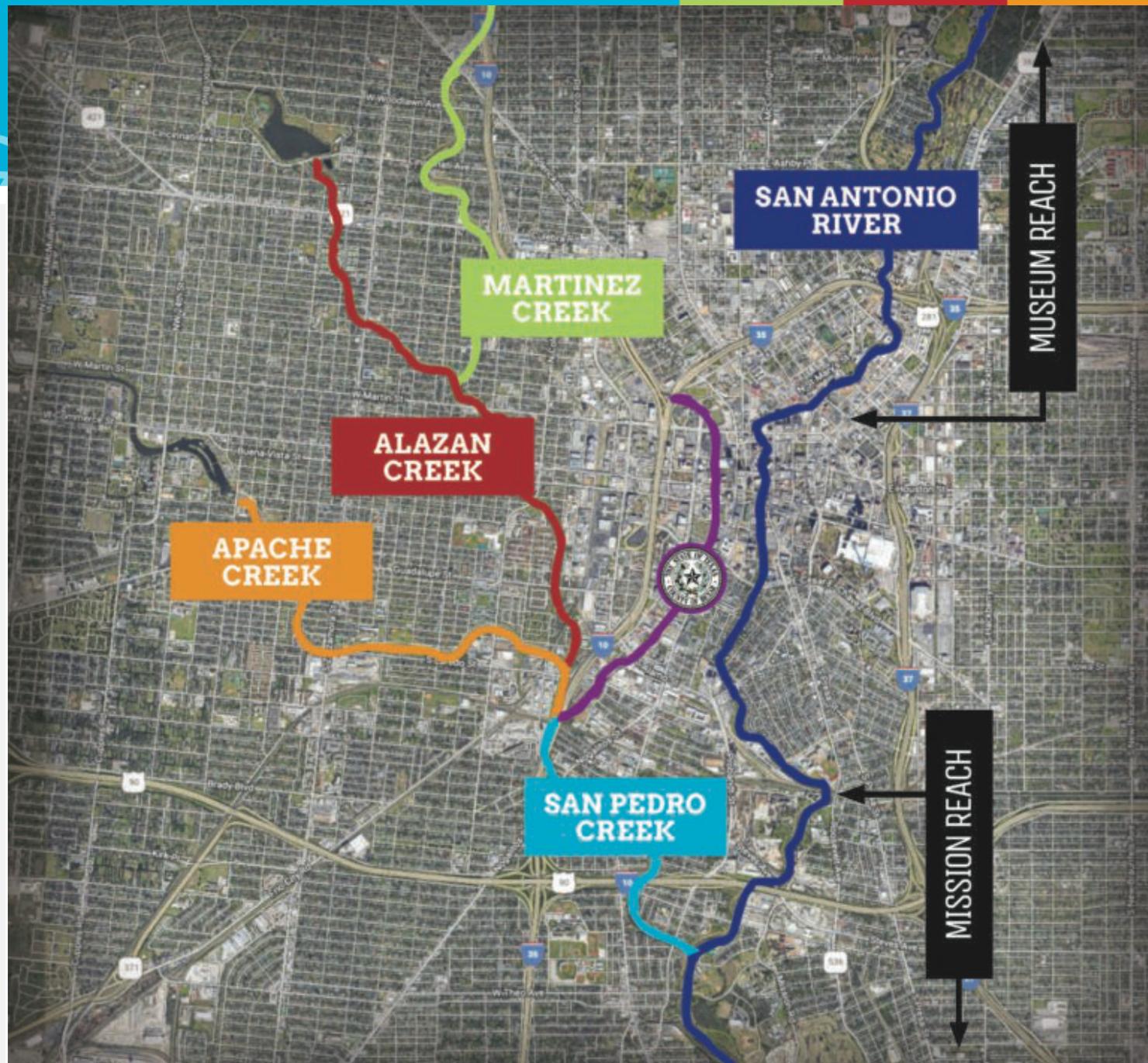
# Background

- 2008 – Westside Creeks Oversight Committee formed
- 2012 – Vision Plan
- 2014 – Feasibility Study
- Jan 2022 – USACE Announces \$75 million funding for the project
- Sept 2022 – SARA/USACE Partnership
  - Pre-design Activities Begin: Survey and Baseline Environmental Studies
- March 2023 – Design Phase Begins
  - Architect-Engineer: Michael Baker Intl. – Huitt Zollars JV
- July 2023 – Public Input Session
  - Recreation Features
- September 2023 – 30% Initial Design Milestone



# Project Area

- **San Pedro Creek**
  - Project 2.4 Miles
- **Apache Creek**
  - Project Length = 2.6 miles
- **Alazán Creek**
  - Project Length = 4.0 Miles
- **Martinez Creek**
  - Project Length = 2.4 miles



# Oversight Committee Organizations

Alazán Resident Council

Avenida Guadalupe

Beacon Hill NA

Bexar Audubon Society

Historic Westside Residents Association

Los Bexarenos Genealogical Society

Our Lady of the Lake University

Prosper West

Prospect Hill NA

San Antonio Alternative Housing

Corporation

San Antonio Conservation Society

SAISD

San Antonio Wheelmen

St. Mary's University

TexasTejano.com

UTSA

United San Antonio Pow Wow Inc.

Woodlawn Lake NA

Student – Vacant\*

\*The River Authority Board appointments committee organizations, the organizations select their member representatives

# Part 2: Design Concept Overview

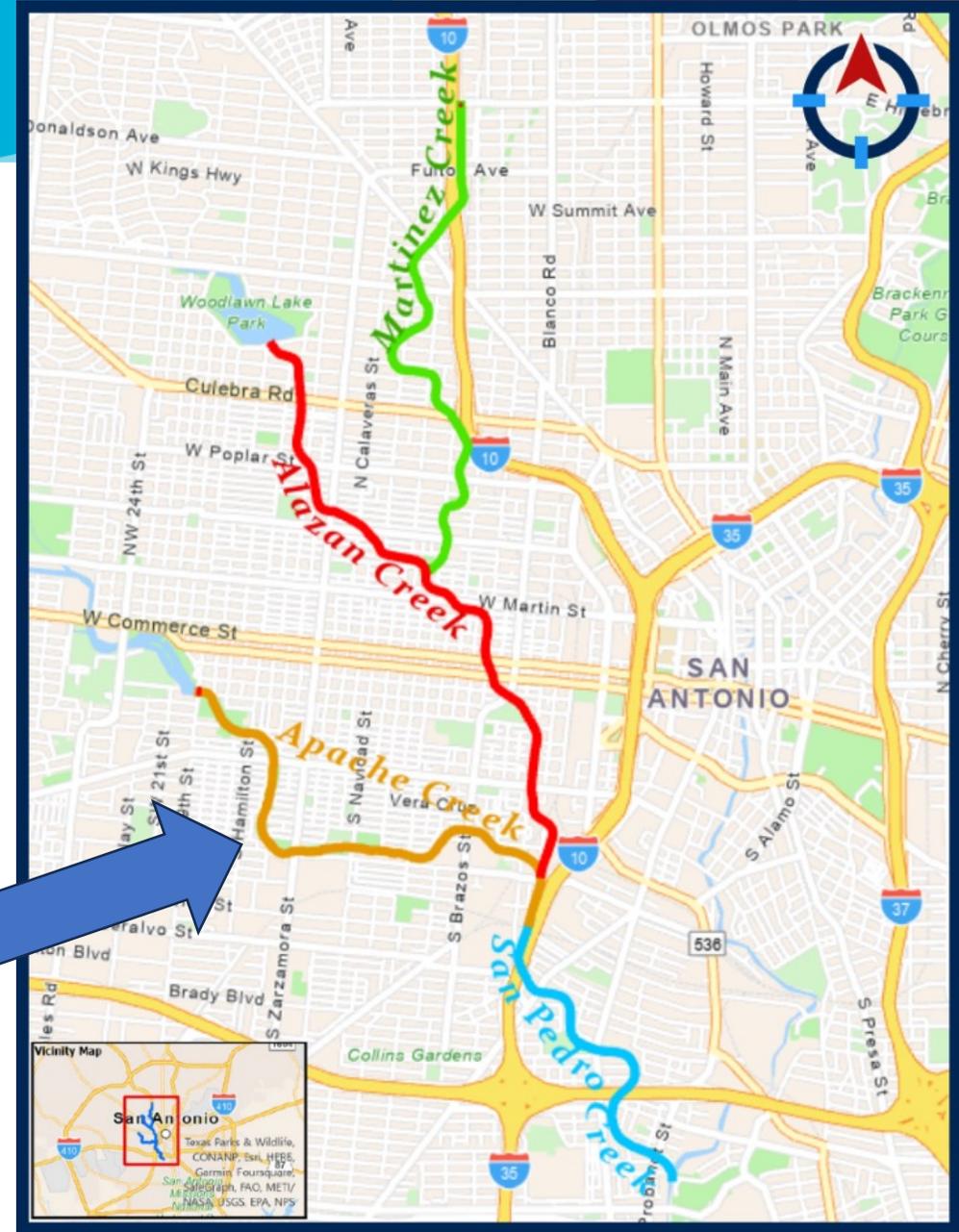
Danny Allen, Wildlife Biologist



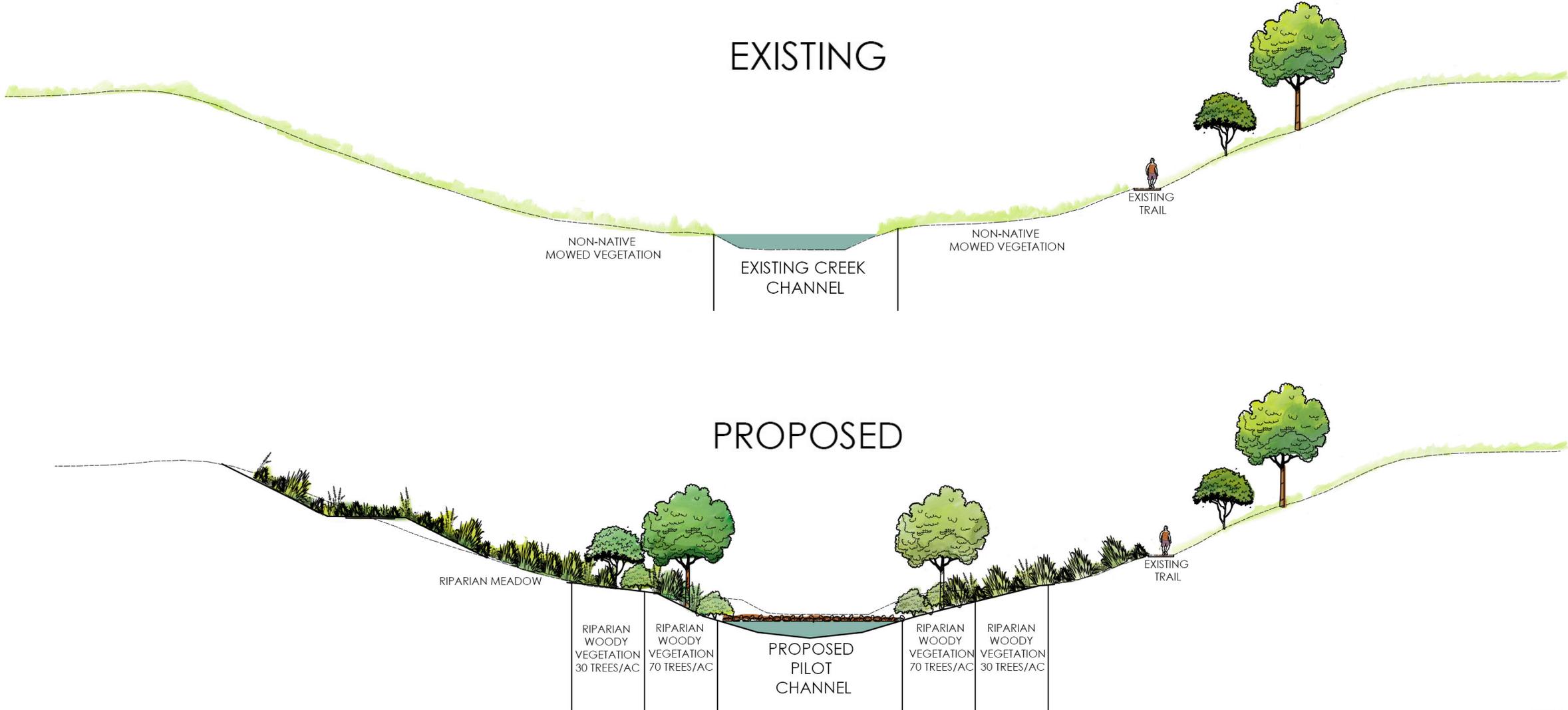
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# Design Overview

- 5.6 acres Riparian Woody Vegetation
- 30.8 acres of Riparian Meadow
- 0.8 miles of pilot channel
- 17 pool-riffle complexes
- Slackwater

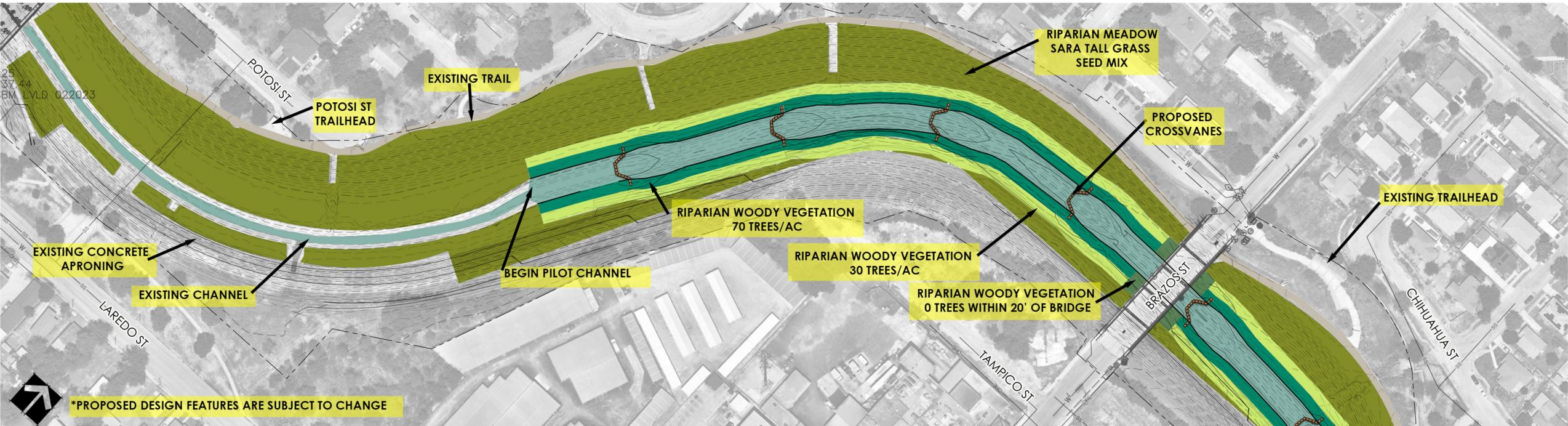


# Typical Apache Creek Sections



\*Proposed design elements are subject to change

# Proposed Apache Creek Layout



- Water surface elevation rises with increased vegetation
- Vegetation will be located in the design to maintain the current water surface elevation

# Examples of Cross Vanes, Constructed Riffles, and Pools



Pool

Constructed Riffle



Cross Vane



Cross Vane



Pool

# Vegetation Value

- Food for wildlife
  - Nectar, foliage, pollen, seeds, nuts, fruits, etc.
- Shelter for wildlife
- Soil and creek bank stabilization
- Filtration for water quality
- Shading
- Higher tolerance of heat, drought, and flooding



BALD CYPRESS



EASTERN GAMMA GRASS



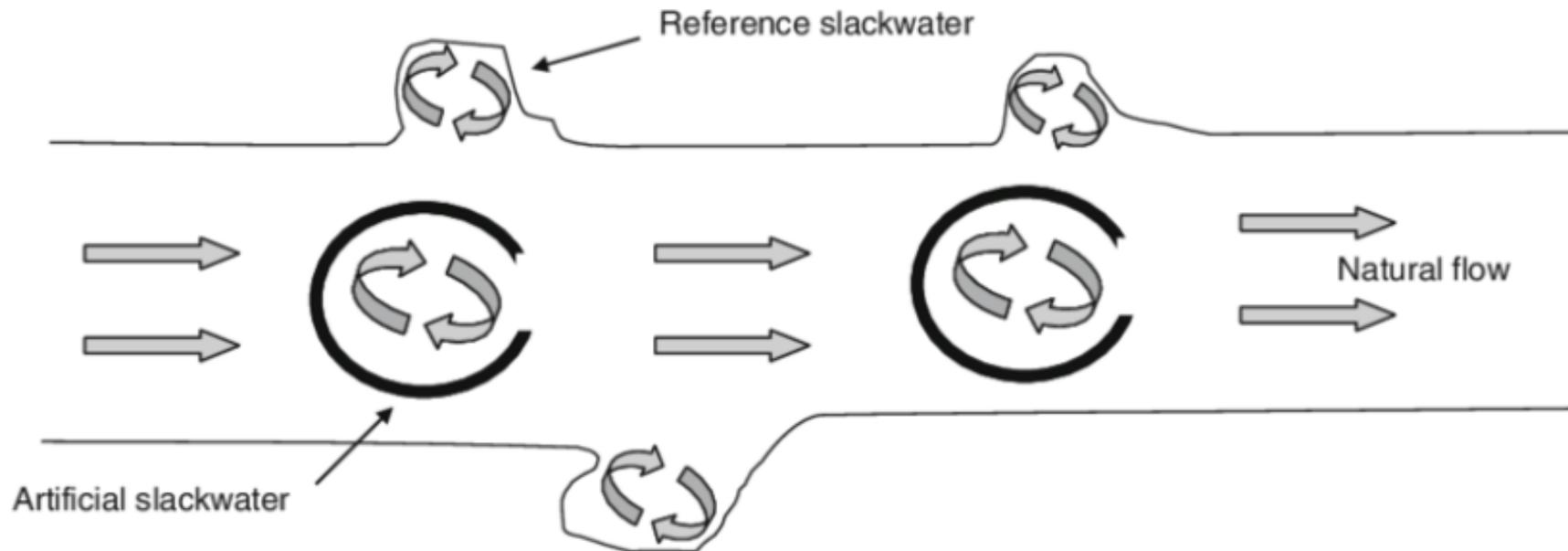
MAXIMILIAN SUNFLOWER



RED BUCKEYE

# Slackwater

- Slackwater areas are portions of the creek with low velocities and shallow depths
- Important habitat area for aquatic organisms



# Recreation Amenities

- Interpretive and wayfinding signs
- Shade structures
- Benches
- Water fountains
- Picnic tables
- Trash receptacles



BENCH



RECEPTACLE



\*Proposed designs are subject to change

# Design Considerations

- 1 railroad crossing
- 1 low water crossing
- 3 pedestrian bridge crossings
- 10 street bridge crossings
- Reinforced concrete banks
- Underground utilities



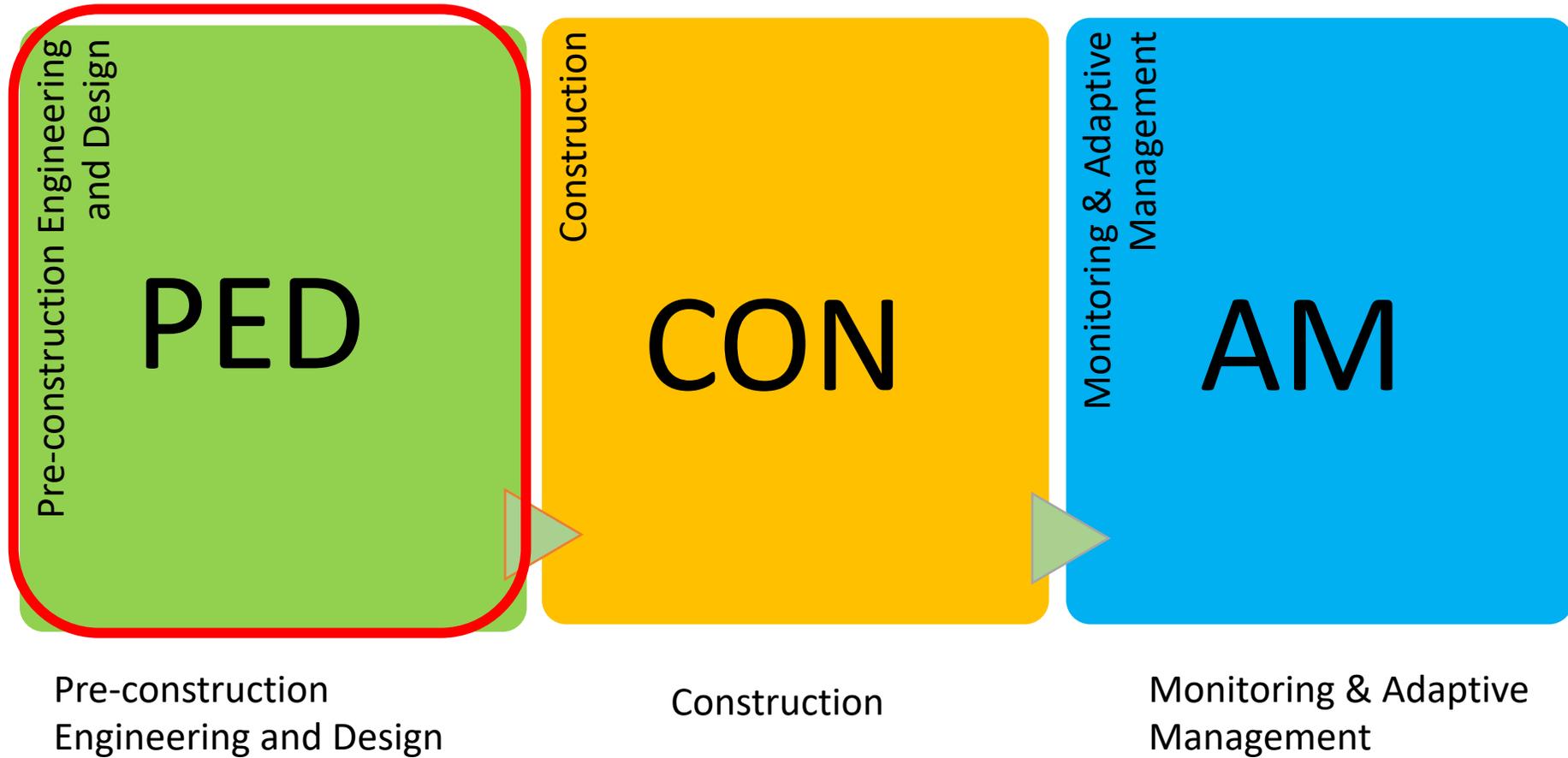
# Part 3: Look Ahead

Zia Burns, Program Manager

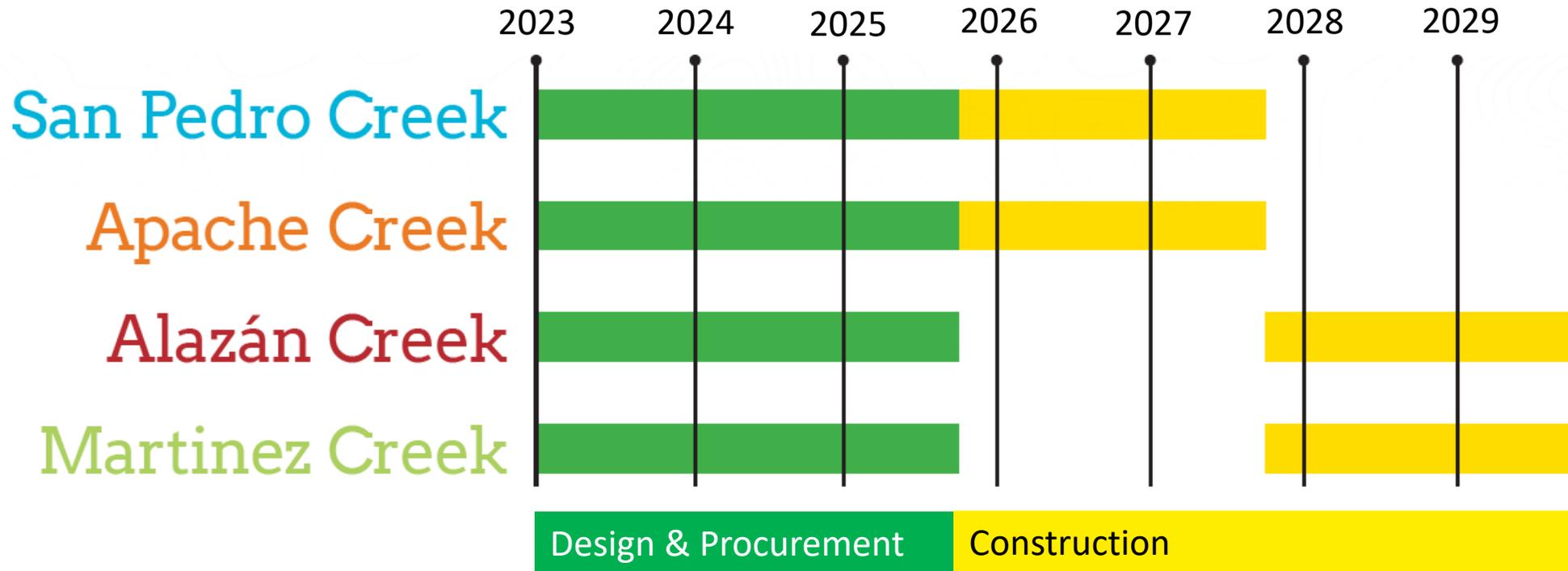


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# Project Phases



# Proposed Schedule\*



\*Proposed schedule subject to change

# Public Information Sessions\*

(30%) Initial Design

September 2023



(60%) Interim Design

March 2024



(90%) Final Design

October 2024

\* Subject to change

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Thank you!

Please join us at the poster boards

Refreshments provided

# Contact Information



**US Army Corps  
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