



The Nature Conservancy



ASAKURA ROBINSON

CENTRAL WILLIAMSON CREEK

Greenway

VISION PLAN

DRAFT

ACKNOWLEDGMENTS

Project Team

Nicole Joslin, AIA, LEED AP
Executive Director

Marla Torrado, Ph.D.
Planning Director

Shavone Otero
Community Coordinator

Thomas Medina
Community Planner

Amy Belaire, Ph.D.
Texas Director of Science
and Strategy

Katie Coyne, AICP, ESA, SITES AP
Principal-In-Charge

**Claire Eddleman-Heath
PLA, LEED AP, SITES AP**
Project Manager

Kari Spiegelhalter
Deputy Project Manager

Andrew Wright
Landscape Designer



Community Working Group

Mary Olmstead

Anna Pittala

Steve Prather

Jessica Sager

Nicole Sanford

Greg Stevens

Michael Usher

Esther Weekes

City of Austin Working Group

Christine Chute Canul
Parks and Rec. Dept.

Marc Coudert
Office of Sustainability

Megan Eckhard
Parks and Rec. Dept.

Sydney Garcia*
National Parks Service

Leah Gibson
Watershed Protection Dept.

Marie Lancaster
Watershed Protection Dept.

Gibran Lule-Hurtado*
National Parks Service

Justin Stewart
Parks and Rec. Dept.

David Trujillo
Watershed Protection Dept.

LaJuan Tucker
Parks and Rec Dept

Staryn Wagner
Watershed Protection Dept.

Katie Wettick
Urban Trails

Jessica Wilson
Watershed Protection Dept.

City Departments

Watershed Protection Department

Parks and Recreation Department

Public Works

Office of Sustainability

Office of Innovation

Housing and Planning Department

Equity Office

*Working Group Members from the
National Parks Service

LETTER FROM THE COMMUNITY WORKING GROUP

Williamson Creek is a gem crossing West to East in South Austin between Oak Hill and McKinney Falls State Park. Residents of the neighborhoods surrounding Williamson Creek have enjoyed this natural beauty for more than 20 years. Community efforts over a number of years, including trash pick-ups, tree planting and the removal of invasive species, have resulted in improving the health of the creek and supporting the native flora and fauna. Central Williamson Creek Greenway is slowly becoming a more welcoming green space for residents to connect with nature and for nature to thrive.

We are thrilled to envision the future of a place we love so dearly with the Central Williamson Creek Greenway Vision Plan. This Vision Plan represents a 12-month process of both Williamson Creek Working Group (WCWG) formal and creative efforts to engage the community and input derived from public engagement. Community engagement activities included: community members recording their own oral histories through WCWG interviews; virtual community picnics virtual mapping enabling community to propose ideas such as food forest planting and hiking trails in and around the creek; several in-person and socially-distanced “Creek Chats” to engage the community; and a final community picnic to unveil the Vision Plan and offer an opportunity to provide community feedback in 2021.

Implementation of the community’s spirited ideas for this plan, in part or entirety, will transform Central Williamson Creek Greenway from its current state to one that will serve nature and the community in the future.

Next steps in this process include: reviewing a final Vision Plan following the consideration of all community comments; presenting this plan to the Environmental Commission and the Parks and Recreation Board; scheduling 2021 Creek Cleanup work days; coordinating invasive species identification and removal; tree planting; identifying funding opportunities to implement the plan; creating the Williamson Creek Hiking Club; and constructing the Williamson Creek Community Labyrinth to increase community activity and overall health.

Thank you to the St. David’s Foundation for providing the grant used to draft this Vision Plan, to Community Powered Workshop for facilitating the process, and to Asakura Robinson for co-creating this Vision Plan with us. We also want to thank members of the City of Austin Working Group for their dedication and time. We are excited to move forward with the support of Austin Parks & Recreation and Watershed Protection Departments and their affiliates. Lastly, we would like to thank and acknowledge those longtime friends who have supported and participated in efforts to maintain Williamson Creek since 2005.

Mary Olmstead

Steve Prather

Nicole Sanford

Michael Usher

Anna Pittala

Jessica Sager

Greg Stevens

Esther Weekes

TABLE OF CONTENTS

Acknowledgments.....2
 Letter From the Community Working Group.....3

1: Project Overview..... 7

Central Williamson Creek Greenway.....8
 Vision Plan Overview12
 Community Goals.....13
 The Design Process14
 Opportunities and Constraints.....17
 Opportunities and Constraints Map.....19

2: Central Williamson Creek Vision Plan 21

Overall Vision Plan.....22
 Vision Plan Elements.....24
 Vision Plan27
 Meadow Creek Trailhead33
 View Northeast at Tom Donovan Park36
 View Northeast at Heartwood Community Garden38
 View Northeast at Heartwood Community Garden38
 Orland Street Trailhead.....41

3: Developing the Vision..... 43

The Future Central Williamson Creek Is..... 44
 Articulating Common Goals..... 46
 Goal #1: A Restored, Biodiverse Greenway..... 48
 Goal #2: A Community-Centered Greenway.....56
 Goal #3: An Accessible and Visible Greenway 64
 Goal #4: An Active and Connected Greenway 70

4: Community Engagement..... 77

Engagement Strategy78
 Digital Engagement78
 In-Person Engagement.....82

5: Existing Conditions 85

Community Context..... 87
 Local Ecology93
 Greenway Access.....103
 Hydrology 113

6: Implementation..... 119

Implementation Stream120
 Ongoing City of Austin Projects.....124
 Implementation By Idea126
 People Experiencing Homelessness134

7: Afterword & Appendices..... 137

Afterword.....139
 Bibliography140
 Recommended Plant List.....142
 Recommended Materials Criteria144
 Opinion of Probable Costs Summary.....148
 All Toolkit Items190
 All Community Engagement + Communication.....213

A Guide to Commonly Used Acronyms

- CWCG: Central Williamson Creek Greenway
- COA: City of Austin
- PARD: Parks and Recreation Department
- WPD: Watershed Protection Department
- CWG: Community Working Group
- CPW: Community Powered Workshop

1: PROJECT OVERVIEW

A Note from Community Powered Workshop (CPW)

[Community Powered Workshop](#) is an Austin-based non-profit architecture and planning organization that works alongside communities to create powerful and equitable places that promote a healthy future and break barriers of systemic injustice through collaborative planning, community driven research and social impact design. We entered this community-led effort to create the Central Williamson Creek Vision Plan in 2017 alongside community members in the Central Williamson Creek area to re-imagine this green space as a resilient, healthy and connected public space. For this Vision Planning process, Community Powered Workshop facilitated the convening of a Community Working Group to bring local voices and perspectives to the table, and a City of Austin Working Group composed of staff from multiple City of Austin departments and the National Parks Service. With the goal to build long-term, collaborative working relationships between community members and public land managers, these working groups place community members and City staff on equal footing in the planning process as a way to balance community priorities that also support a sustainable and healthy environment.

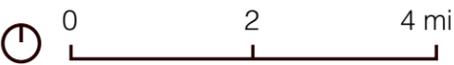
Moving forward, we will continue collaborating with residents of the neighborhoods and City departments to bring the Central Williamson Creek Greenway Vision Plan to life.

CENTRAL WILLIAMSON CREEK GREENWAY

Central Williamson Creek is a stretch of nearly continuous greenway along Williamson Creek in Austin, Texas. This section of the creek, which runs for about two miles between S. Congress Avenue and Menchaca Road, and just north of Stassney Lane is located in a primarily residential area of South Austin. Much of the land directly adjacent to the creek is publicly owned by The City of Austin Parks Department and the City of Austin Watershed Protection Department as a result of a floodplain home-buyout project that transitioned formerly residential land into floodable green space. **This land now presents a significant opportunity to create a connected recreational greenway for a park-deficient community in South Austin.**

Legend

- Meadow Creek Buyout Area
- Radham Circle Buyout Area
- Richmond Tributary Buyout Area
- Heartwood Buyout Area
- Creeks



Data sources: City of Austin Google, The Nature Conservancy, USGS

CENTRAL WILLIAMSON CREEK GREENWAY

Home Buyout Program

The homes in the neighborhood adjacent to and within the Williamson Creek floodplain have experienced repeated destructive flooding over the past two decades, and these floods continue to intensify due to climate change and Austin's rapid growth and land development. Major floods in 1998, 2001, and 2013 prompted a consideration of a buyout program in this area, and in 2015, the first phase of a home buyout program began through a partnership between the City of Austin and the U.S. Army Corps of Engineers. As of 2019, 51 properties have been purchased by the city and demolished to prevent future redevelopment. There are a total of four buyout areas along the project site along the project site: the Meadow Creek buyout area, Radham Circle buyout area, the Richmond Tributary buyout area, and the Heartwood buyout area (see map on page 9). The land and floodplain recovered from

this effort is now owned and maintained by the City of Austin's Watershed Protection Department with the goal of maintaining it as an open, floodable space to protect adjoining residences from flooding.

Community-Driven Open Space

In addition to the home buyout properties, Central Williamson Creek is bordered by about 58 acres of undeveloped parkland owned by the Austin Parks and Recreation Department and 16 acres of residential floodplain buyout properties owned by the Austin Watershed Protection Department. **This publicly owned land adjacent to the rich biodiverse riparian ecosystem of Williamson Creek presents a unique opportunity to connect residents of South Austin to urban ecological systems, recreation, and gathering spaces.**

This opportunity was quickly recognized by residents, and in 2019 community leaders in the Southwood neighborhood partnered with local non-profits and conservation organizations to initiate a series of community engagement and activation events called *Explore! Williamson Creek*. Many community desires emerged, including the desire for a creekside nature trail, social gathering spaces, community gardens, wildlife habitat, and other amenities. The outcome of these activations highlighted the passion community members hold for Williamson Creek and their desire to have a strong voice in the planning and design process. **This vision plan process continues this community-driven effort through an engaged Community Working Group feedback process and a series of Community Workshops.**

Previous Planning Efforts

City of Austin Neighborhood planning documents addressing South Austin acknowledge Williamson Creek as a priority area for parks and recreation.

South Austin Combined Neighborhood Plan: Create bike lanes on major roads, provide a greenbelt path along Williamson Creek.

Southeast Combined Neighborhood Plan: Add more sidewalks, create hike and bike trail along Williamson Creek, add mixed-use zoning.

Southeast Combined Neighborhood Plan: Maintain Williamson Creek in a natural state, improve pedestrian connections, and develop a new neighborhood park.



Section A-A': Central Williamson Creek and Surrounding Context at Radham Circle

VISION PLAN OVERVIEW

This Vision Plan report provides a comprehensive guiding vision for the future of the Central Williamson Creek Greenway. The recommendations in this plan were created through close collaboration with a community working group, the City working group, and feedback from the general public.

Chapter 2 | Pages 21-42 Vision Plan

The Vision Plan chapter presents the overall designs for the Williamson Creek Greenway from S. Congress Avenue to Menchaca Road, along with examples of more detailed concept designs for two trailheads at Orland St and S. 1st Street and at Meadow Creek Circle.

Chapter 3 | Pages 43-76 Developing the Vision

This chapter provides a detailed overview of the four community goals that drove this plan, how they were developed, and each goal's corresponding design strategies utilized in the Vision Plan to achieve those goals.

Chapter 4 | Pages 77-84 Community Engagement

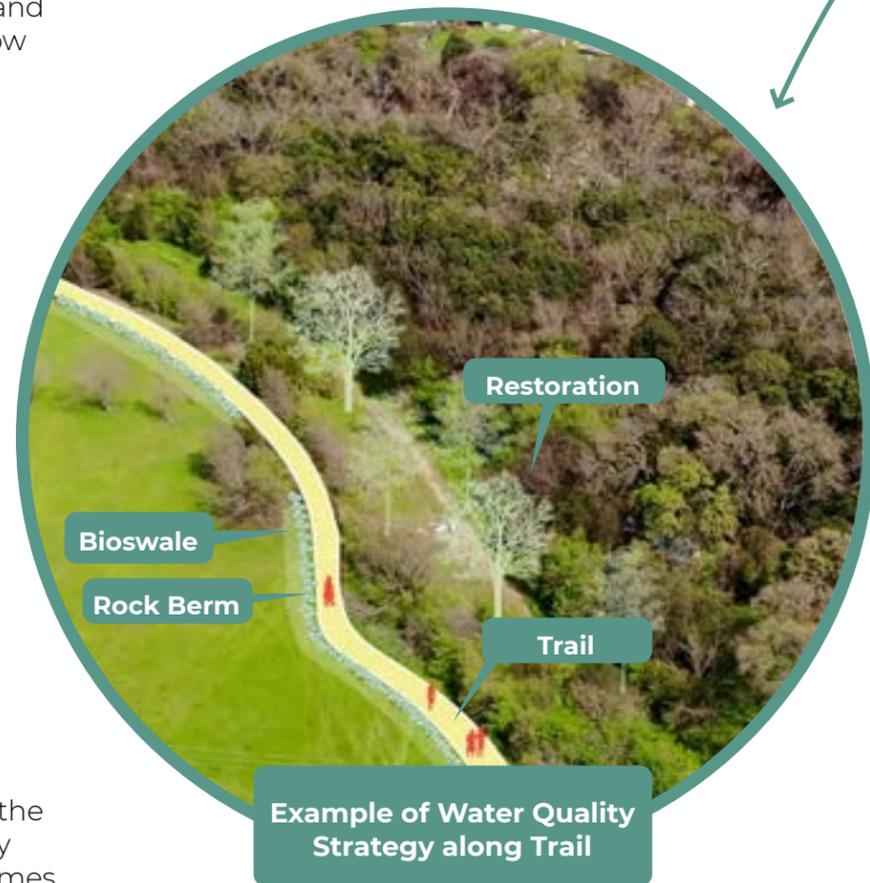
This Vision Plan was developed in close collaboration with community members, and this chapter provides an overview of the digital and in-person community engagement process and outcomes.

Chapter 5 | Pages 85-118 Existing Conditions

The Existing Conditions chapter provides an overview of current ecological, hydrological, and social conditions of the creek and its immediate surrounding neighborhood.

Chapter 6 | Pages 119-130 Implementation

Chapter 6 lays out a three-tiered approach to funding and constructing the Vision Plan designs over time based on project effort and feasibility, and provides maintenance recommendations.



COMMUNITY GOALS

The following four goals emerged from a design process that listened to and engaged with community priorities through a series of virtual and in-person engagement events, described later in Chapter 4.

1. A RESTORED, BIODIVERSE GREENWAY

The future Central Williamson Creek Greenway will be a healthy, functioning riparian ecosystem, rich with plant and animal life and free from ecologically destructive invasive species. Volunteer and city ecological restoration efforts, green infrastructure installations, and low-impact trails will preserve the creek's wild character, protect sensitive species, and improve water quality.

2. A COMMUNITY-CENTERED GREENWAY

The future Central Williamson Creek Greenway will be a system of trails, parks, community gardens, and other gathering spaces where neighbors and South Austin residents gather to socialize and exercise. Community-built art, urban agriculture, restoration and other projects along the greenway will create a sense of ownership and pride.

3. AN ACCESSIBLE AND VISIBLE GREENWAY

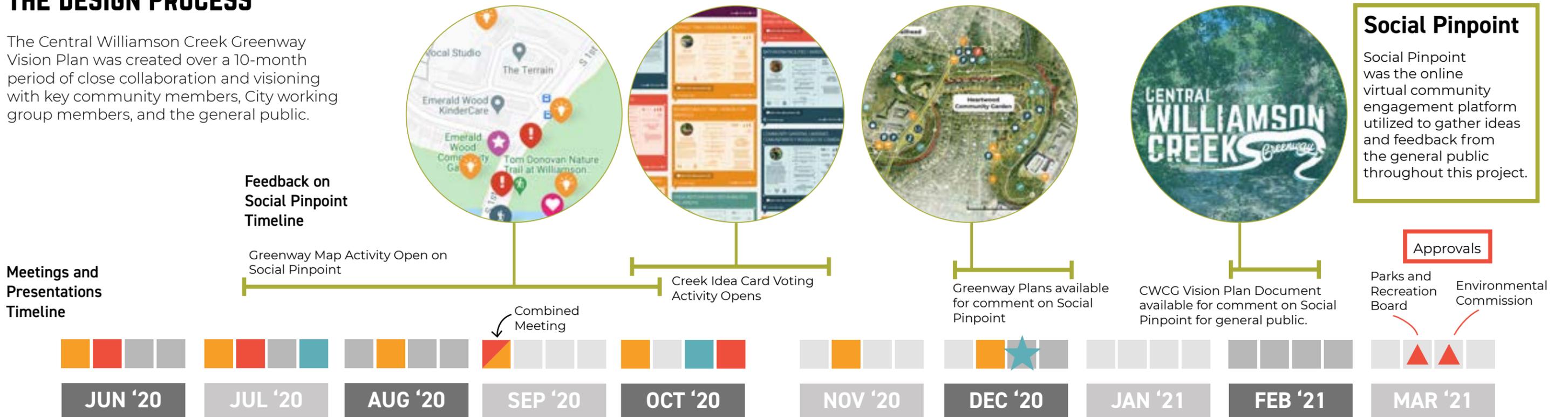
The future Central Williamson Creek Greenway will provide a continuous trail from S. Congress Avenue to Menchaca Road through key land acquisition and low-impact trail construction. Visitors to the greenway will be able to orient themselves through clear wayfinding signage, and learn more about the unique history, ecology, and geology of the creek through educational signage.

4. AN ACTIVE AND CONNECTED GREENWAY

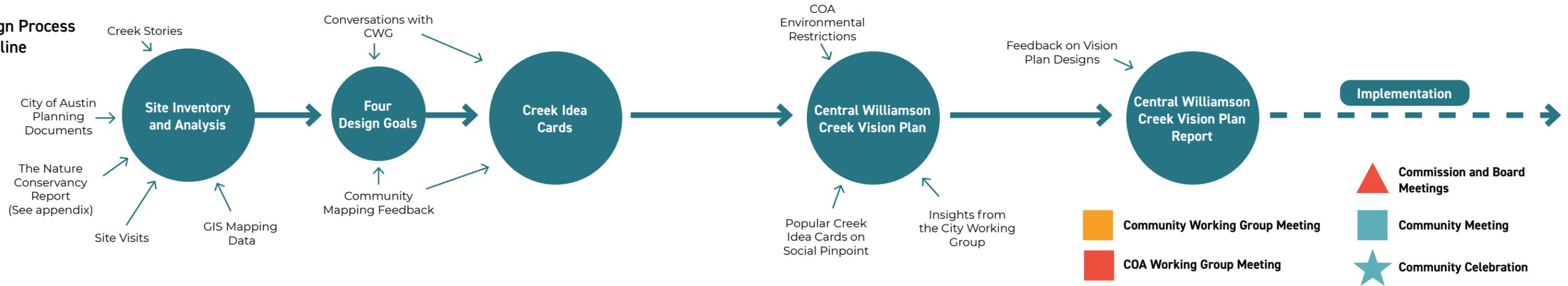
The future Central Williamson Creek Greenway will be an important public health amenity for the neighborhood and the broader Austin community. It will provide a key east-west connection to South Austin neighborhood resources and public transportation. The trail system will connect all communities to the creek and provide accessible creek experiences for those of all abilities. Mountain biking trails, fitness programming, and community gardens along the trail network will further enhance neighborhood health.

THE DESIGN PROCESS

The Central Williamson Creek Greenway Vision Plan was created over a 10-month period of close collaboration and visioning with key community members, City working group members, and the general public.



Design Process Timeline



Community Working Group

The Community Working Group of eight people living in the neighborhoods adjacent to the creek was established to collaboratively envision the future of the creek and to build community capacity for future implementation of this plan. The group was given a stipend for participation and met monthly to participate in collaborative visioning activities with the design team and to provide feedback on design deliverables.

City of Austin Working Group

The City of Austin Working Group was formed to create a group of experts who volunteered their time to provide advice on parks, trails planning, and environmental restoration, as well as an understanding of the City of Austin's legal requirements for proposed designs. The City Working Group was comprised of 11 City of Austin staff members, representing the Parks and Recreation Department, the Watershed Protection Department, and Office of Sustainability, and the Urban Trails program. Two members represented the National Parks Service.



Heartwood Community Garden is a community gathering space along the greenway where neighbors can grow their own food.

OPPORTUNITIES AND CONSTRAINTS

Williamson Creek is a rich ecological and social resource with great potential for increased use by local residents. It provides local residents with a green space for recreation, relaxation, and gathering. The Heartwood and Emerald Wood Community Gardens serve as hubs of community activity. Due to the Watershed Protection Department floodplain buyout program, there are many vacant areas that could provide more opportunities to interact with the creek.

There are considerations and limitations to increased community access to the creek, however. While PARD and WPD own most of the properties along the creek, some sections are privately owned. This poses challenges to the creation of a continuous east-west trail along the creek. Many city-owned properties, meanwhile, are in the Williamson Creek floodplain. In these areas, site improvements must be low-impact and flood safe. In other areas, the creek's rugged terrain and steep slopes limit access.

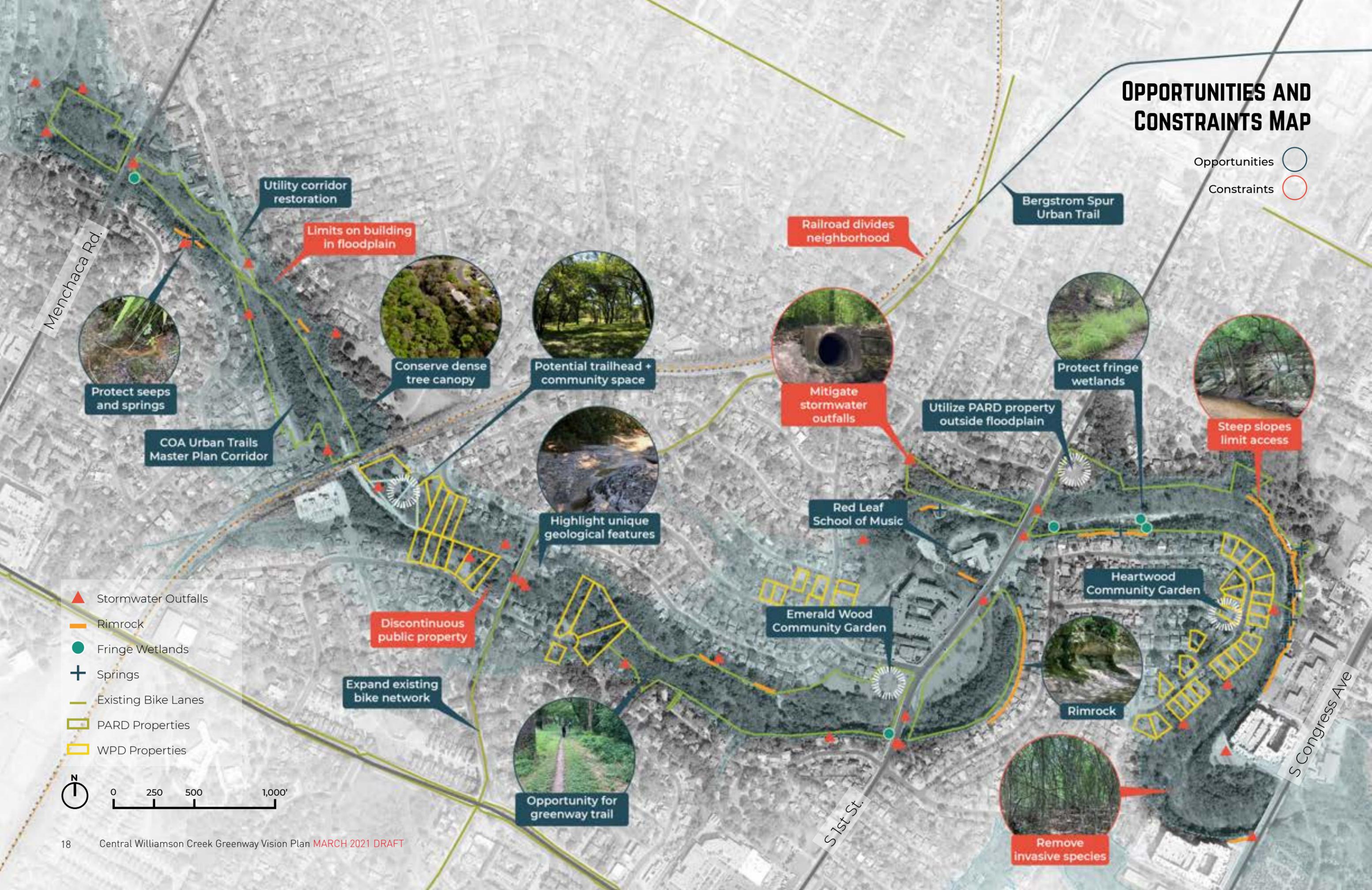
Many of these challenges also present opportunities. Rugged trails can present moments to highlight south Austin's unique geology. Properties in the floodplain can host green infrastructure and floodplain restoration. Community members can work together to help manage invasive plant species. Each obstacle presents unique opportunities for creativity, teamwork, and stewardship.

Floodplains

It should be noted that due to a new precipitation study from the National Weather Service known as Atlas-14, the floodplain maps of the entire city will be re-mapped within the next 3-5 years. The floodplains are shown in this document to reflect an estimation of this future update. It reflects these upcoming changes by showing "estimated" 25 year and 100 year flood events. According to the City of Austin's FloodPro "Fully Developed Floodplain" scenario that can be found at <https://www.austintexas.gov/floodpro/>

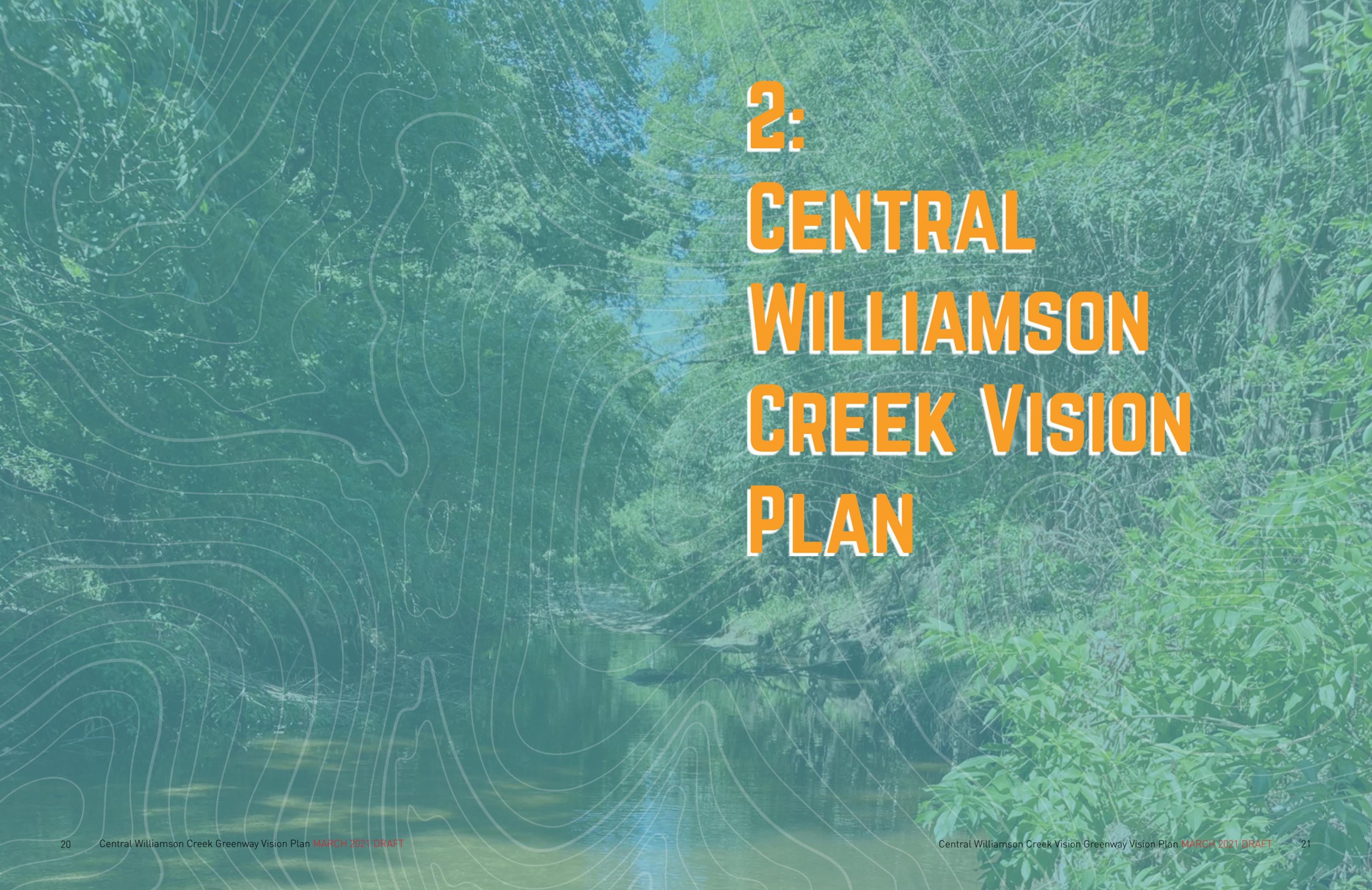
OPPORTUNITIES AND CONSTRAINTS MAP

Opportunities 
 Constraints 



-  Stormwater Outfalls
-  Rimrock
-  Fringe Wetlands
-  Springs
-  Existing Bike Lanes
-  PARD Properties
-  WPD Properties





2: CENTRAL WILLIAMSON CREEK VISION PLAN

OVERALL VISION PLAN

This Vision Plan design for the Central Williamson Creek Greenway provides a conceptual trail and open space designs for the creek and the Parks and Recreation and Watershed Protection Department-owned land along the length of the creek.

This overall design details the placement and locations of several design components:

1. Trails

Trail Materials

Austin's 2014 Urban Trails Plan identifies Williamson Creek as a Tier 2 trail, indicating that it should be constructed with a paved material. Throughout the community engagement process for this Vision Plan, the community emphasized their desire for natural, low-impact trails along the greenway. This document recommends mulch or bond-mulch trails to align as closely as possible to community desires. However, a City-led preliminary engineering report and corresponding community engagement are recommended as the next steps in the process to create a balanced approach to trail development.

Trail Placement

Trail placement along the creek was determined by the following factors:

1. Slope

Slope analyses identify changes in elevation in the land. Areas with a shallow slope were prioritized for trail placement because it is difficult for trail users to walk on steep slopes, and creating a trail on steep slopes requires greater ecological disturbance, and potential for erosion. See page 106 for a detailed slope analysis.

2. Property Ownership

The trail placement runs primarily along City-owned PARD and WPD property; however, there are several locations where land adjacent to the creek is privately owned. This plan recommends acquiring easements in those properties. In the meantime, trail users must walk in the City-owned creek bed during dry weather. After rains, trail users must utilize "high water" trails on sidewalks to avoid trespassing on private property. These high water routes are short detours that quickly reconnect to the greenway trail on City-owned property.

3. Sensitive Ecological Features

Central Williamson Creek's biodiversity and unique geological features are a primary draw for visitors; however, these sensitive natural assets must be protected, and are protected legally through the City of Austin's environmental restrictions. According to this code, trails can not be placed within a 50' buffer of a Critical Environmental Feature, which includes seeps, springs, fringe wetlands, and rim rock, without an environmental variance. The placement of the trail along Central Williamson Creek maintains a 50' distance from these features, unless it is absolutely necessary to pass within the buffer zone to provide trail connectivity.

4. Neighborhood Connectivity

When considering trail placement, community input on common access points to the creek and identification of existing community assets and resources took high priority. This trail placement identifies a network of access points at key intersections, bridges, neighborhoods, and community resources.

2. Vision Plan Elements

Creek Idea Cards

The Vision Plan Elements, which include features such as signage, community gardens, and community message boards, arose from the Creek Idea Card community engagement process outlined in Chapter 4. This involved the development of 50 Creek Idea cards that were voted up or down in popularity by community members. Both popularity and feasibility were taken into consideration when selecting the final cards to be included in the plan as a Vision Plan Element. Each Element corresponds with one of the four overall goals, which can be identified by their color. See pages 24-25 for a full list of Vision Plan Elements and the goals they support.

3. Example Trailheads

Site Selection

Detailed conceptual designs for two key trailheads are included in this plan. The purpose of these designs are to show examples of how activated trailheads and community gathering spaces at key nodes along the trail can further social, ecological, and public health goals. These sites were selected based on hydrological, ownership, and social factors.

Meadow Creek Trailhead

This land is buyout property that is owned by WPD. This site was selected to take advantage of funding offered by the department for ecological restoration and tree planting on buyout property, because it was the largest continuous piece of buyout property and because it straddles both the north and south sides of the creek.

Orland Trailhead

This land is owned by PARD. It was chosen as an example trailhead because it is out of the floodplain, and can thus have built structures or other features that would otherwise be destroyed if they were in the floodplain.

4. Environmental Features

Ecological Restoration

Significant opportunities exist for multiple types of ecological restoration along Williamson Creek:

1. Creek Restoration
2. Woodland Restoration
3. Wildflower Meadows
4. Fringe Wetland Restoration

Opportunities for these four types of restoration are located and identified throughout the Overall Vision Plan. The Chapter 6 Implementation Plan outlines how both volunteer efforts and City-led efforts can work in tandem over time to achieve restoration goals.

Reclaimed Brush Berms

Reclaimed brush berms are neatly stacked piles of fallen branches that provide habitat and cover for small animal species and line paths to improve wayfinding.

Stone Berms

Stone berms slow rainwater flow before it enters the creek, helping to remove some sediments and other pollutants before it enters the creek.

VISION PLAN ELEMENTS

These vision plan elements included in this design are a result of the "Creek Cards" community engagement process outlined in Chapters 3 and 4.

Goal Key

- 1. A Restored, Biodiverse Greenway
- 2. A Community-Centered Greenway
- 3. An Accessible and Visible Greenway
- 4. An Active and Connected Greenway



Creek & Woodland Restoration



Environmental Signage



Green Infrastructure



Invasive Species Management



Pollinator Nesting Boxes



Wildflower Planting



Food Forests



Labyrinth



Nature Play



Music Groves



Bonded Mulch Trail



Land Acquisition



Natural Surface Trail



Wayfinding Signage



Weather Warning Signage



BYO Hammock Grove



Community Gardens



Community Message Boards



On-Street Bike Lanes

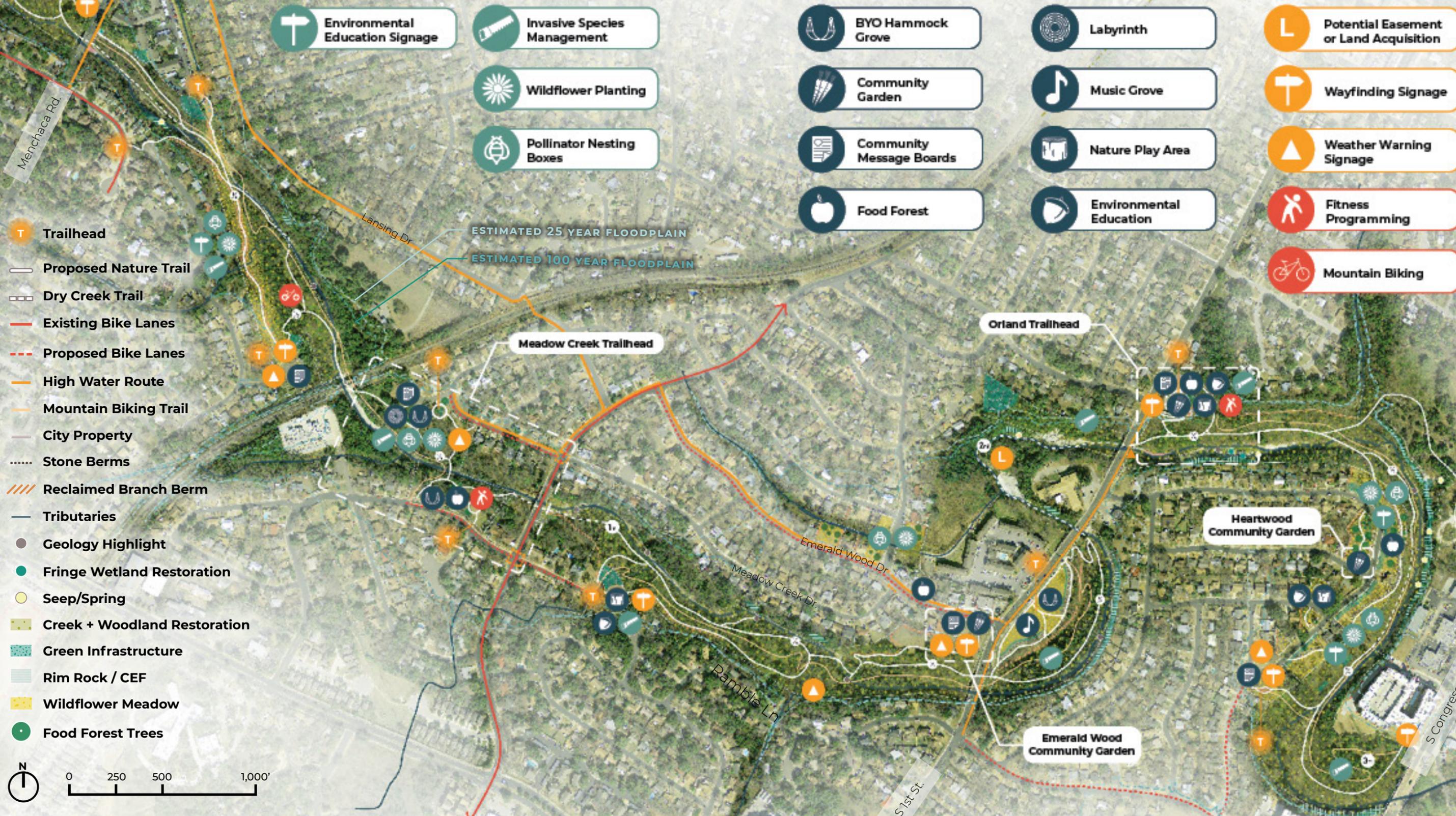


Fitness Programming



Mountain Biking

VISION PLAN



- Environmental Education Signage
- Invasive Species Management
- Wildflower Planting
- Pollinator Nesting Boxes

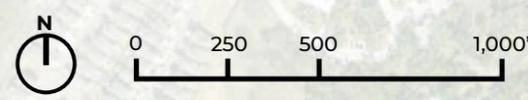
- Invasive Species Management
- Wildflower Planting
- Pollinator Nesting Boxes

- BYO Hammock Grove
- Community Garden
- Community Message Boards
- Food Forest

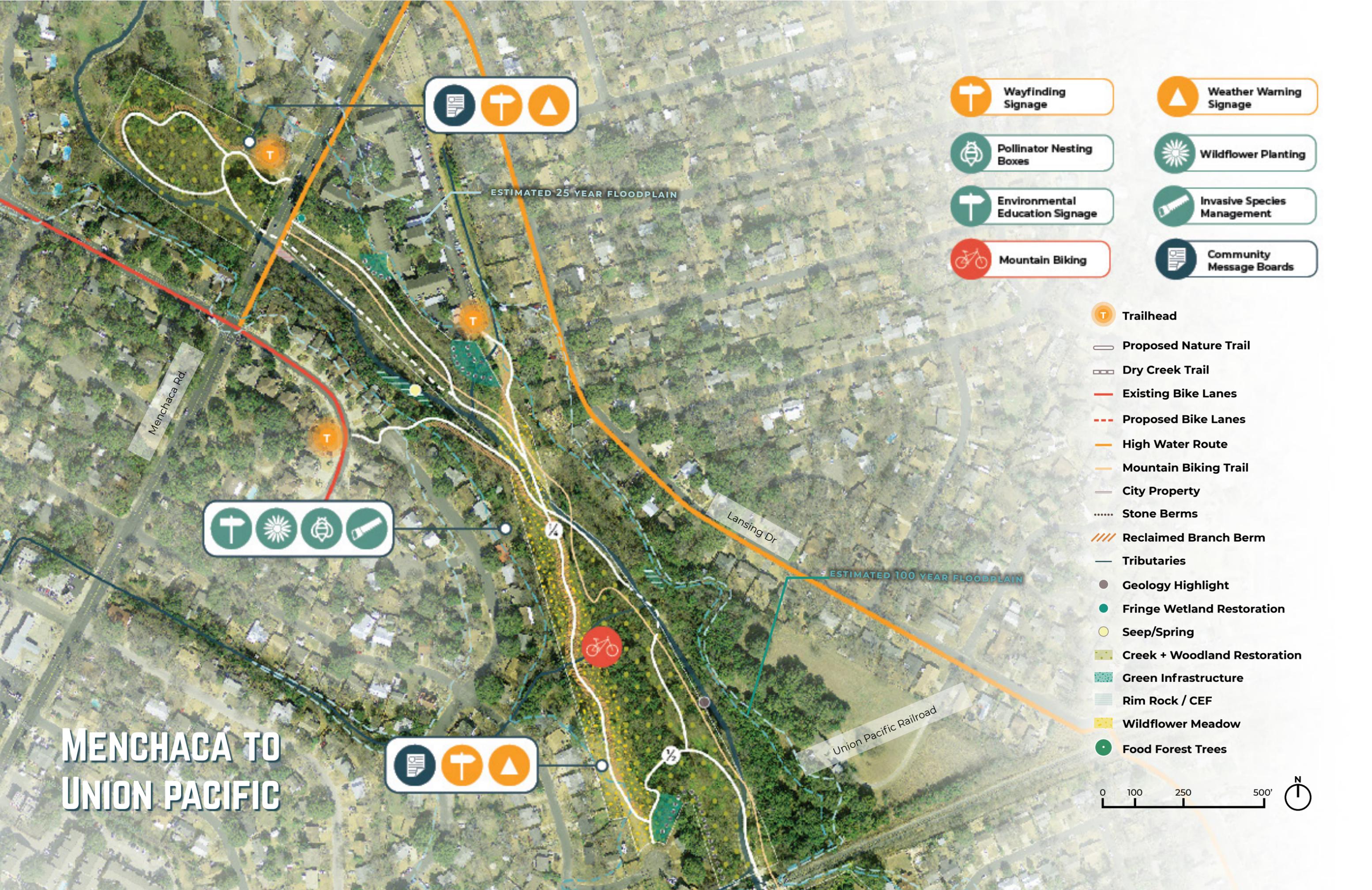
- Labyrinth
- Music Grove
- Nature Play Area
- Environmental Education

- Potential Easement or Land Acquisition
- Wayfinding Signage
- Weather Warning Signage
- Fitness Programming
- Mountain Biking

- Trailhead
- Proposed Nature Trail
- Dry Creek Trail
- Existing Bike Lanes
- Proposed Bike Lanes
- High Water Route
- Mountain Biking Trail
- City Property
- Stone Berms
- Reclaimed Branch Berm
- Tributaries
- Geology Highlight
- Fringe Wetland Restoration
- Seep/Spring
- Creek + Woodland Restoration
- Green Infrastructure
- Rim Rock / CEF
- Wildflower Meadow
- Food Forest Trees



MENCHACA TO UNION PACIFIC



Wayfinding Signage, Weather Warning Signage

Pollinator Nesting Boxes, Wildflower Planting, Invasive Species Management, Community Message Boards

Wayfinding Signage, Weather Warning Signage

Wayfinding Signage

Weather Warning Signage

Pollinator Nesting Boxes

Wildflower Planting

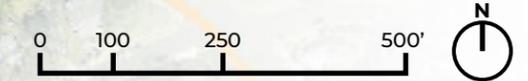
Environmental Education Signage

Invasive Species Management

Mountain Biking

Community Message Boards

- T Trailhead
- Proposed Nature Trail
- Dry Creek Trail
- Existing Bike Lanes
- Proposed Bike Lanes
- High Water Route
- Mountain Biking Trail
- City Property
- Stone Berms
- Reclaimed Branch Berm
- Tributaries
- Geology Highlight
- Fringe Wetland Restoration
- Seep/Spring
- Creek + Woodland Restoration
- Green Infrastructure
- Rim Rock / CEF
- Wildflower Meadow
- Food Forest Trees



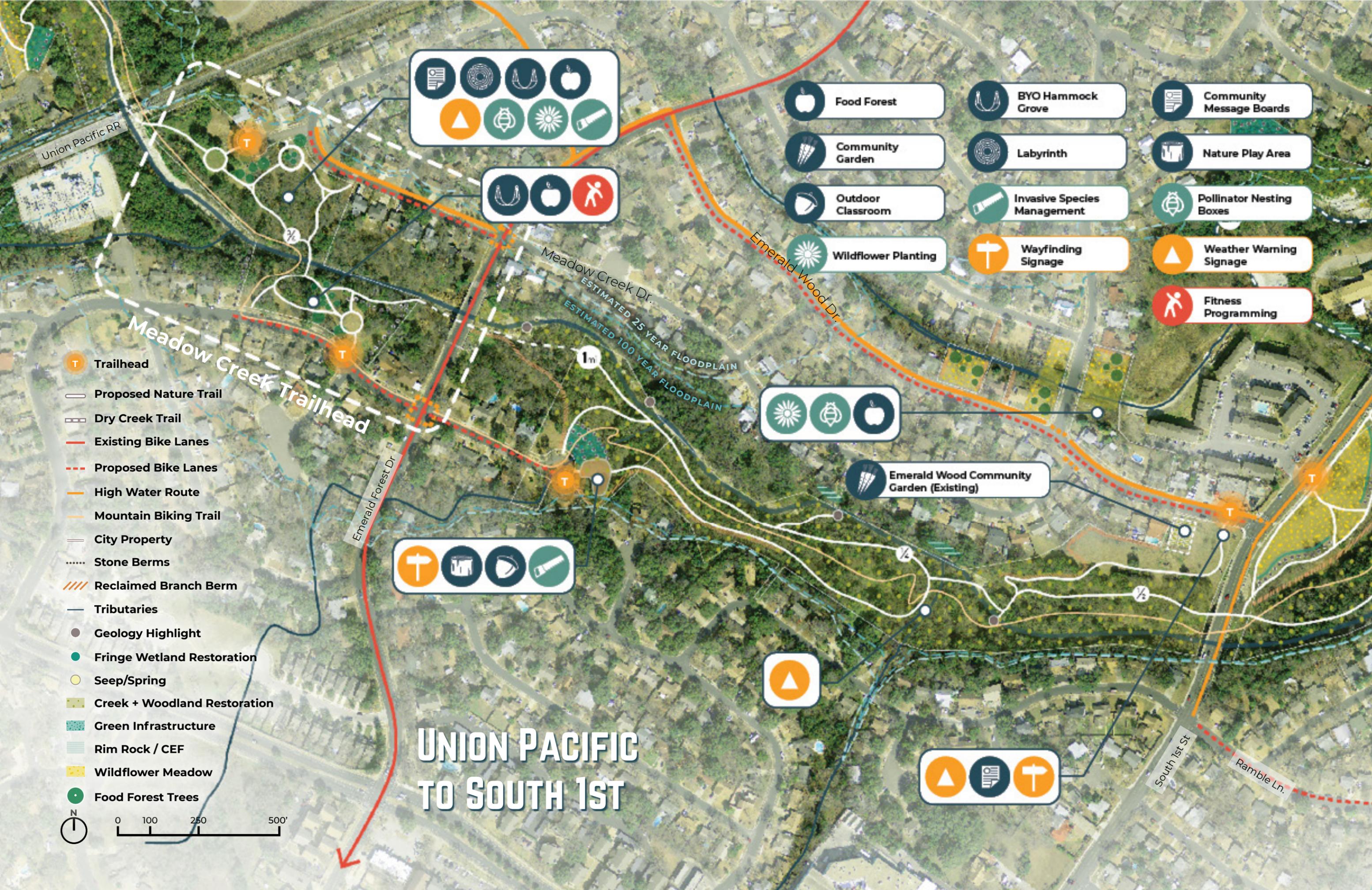
ESTIMATED 25 YEAR FLOODPLAIN

ESTIMATED 100 YEAR FLOODPLAIN

Menchaca Rd.

Lansing Dr

Union Pacific Railroad



- Community Garden
- Food Forest
- BYO Hammock Grove
- Community Message Boards
- Wildflower Planting
- Wayfinding Signage
- Weather Warning Signage

- Outdoor Classroom
- Fitness Programming

- Food Forest

- Community Garden

- Outdoor Classroom

- Wildflower Planting

- BYO Hammock Grove

- Labyrinth

- Invasive Species Management

- Wayfinding Signage

- Community Message Boards

- Nature Play Area

- Pollinator Nesting Boxes

- Weather Warning Signage

- Fitness Programming

- Wildflower Planting
- Pollinator Nesting Boxes
- Food Forest

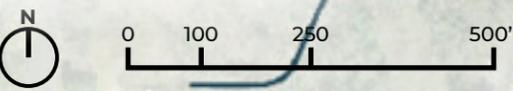
- Emerald Wood Community Garden (Existing)

- Wayfinding Signage
- Community Message Boards
- Outdoor Classroom
- Invasive Species Management

- Weather Warning Signage

- Weather Warning Signage
- Community Message Boards
- Wayfinding Signage

- Trailhead
- Proposed Nature Trail
- Dry Creek Trail
- Existing Bike Lanes
- Proposed Bike Lanes
- High Water Route
- Mountain Biking Trail
- City Property
- Stone Berms
- Reclaimed Branch Berm
- Tributaries
- Geology Highlight
- Fringe Wetland Restoration
- Seep/Spring
- Creek + Woodland Restoration
- Green Infrastructure
- Rim Rock / CEF
- Wildflower Meadow
- Food Forest Trees



UNION PACIFIC TO SOUTH 1ST

Union Pacific RR

Meadow Creek Trailhead

Emerald Forest Dr

Meadow Creek Dr.
ESTIMATED 25 YEAR FLOODPLAIN
ESTIMATED 100 YEAR FLOODPLAIN

Emerald Wood Dr.

South 1st St

Ramble Ln.

MEADOW CREEK TRAILHEAD

A group of contiguous floodplain buyout properties west of Emerald Forest Drive presents an opportunity for a major trailhead and community gathering space. Because these properties are within the floodplain, all site improvements must be low-impact and flood safe. Amenities shown here include a fitness lawn, hammock groves, and a labyrinth, providing spaces for neighbors to gather, relax, and stay healthy. Wildflower meadows, pollinator nesting boxes, and green infrastructure help to conserve and improve the creek environment. Other programming ideas include invasive species management, public art, and expansion of existing seating areas.



Food Forest

Community Message Boards

Labyrinth

Wildflower Planting

Keep Existing Seating Area

Invasive Species Management

Natural Trail

BYO Hammock Grove

Green Infrastructure

Food Forest

Fitness Programming

Public Art

SOUTH 1ST TO SOUTH CONGRESS

- Trailhead
- Proposed Nature Trail
- Dry Creek Trail
- Existing Bike Lanes
- Proposed Bike Lanes
- High Water Route
- Mountain Biking Trail
- City Property
- Stone Berms
- Reclaimed Branch Berm
- Tributaries
- Geology Highlight
- Fringe Wetland Restoration
- Seep/Spring
- Creek + Woodland Restoration
- Green Infrastructure
- Rim Rock / CEF
- Wildflower Meadow
- Food Forest Trees

- Food Forest
- Community Garden
- BYO Hammock Grove
- Music Grove
- Fitness Programming
- Nature Play Area
- Community Message Boards
- Outdoor Classroom
- Invasive Species Management
- Environmental Education Signage
- Wildflower Planting
- Pollinator Nesting Boxes

- Wayfinding Signage
- Land Acquisition
- Weather Warning Signage

ESTIMATED 25 YEAR FLOODPLAIN
ESTIMATED 100 YEAR FLOODPLAIN

Tom Donovan Nature Trail (Existing)

Orland Trailhead

Heartwood Food Forest (In Progress)

Heartwood Community Garden (Existing)

Wood Bine Dr

Creeklane Dr

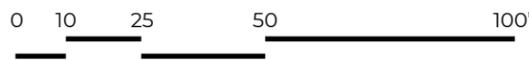
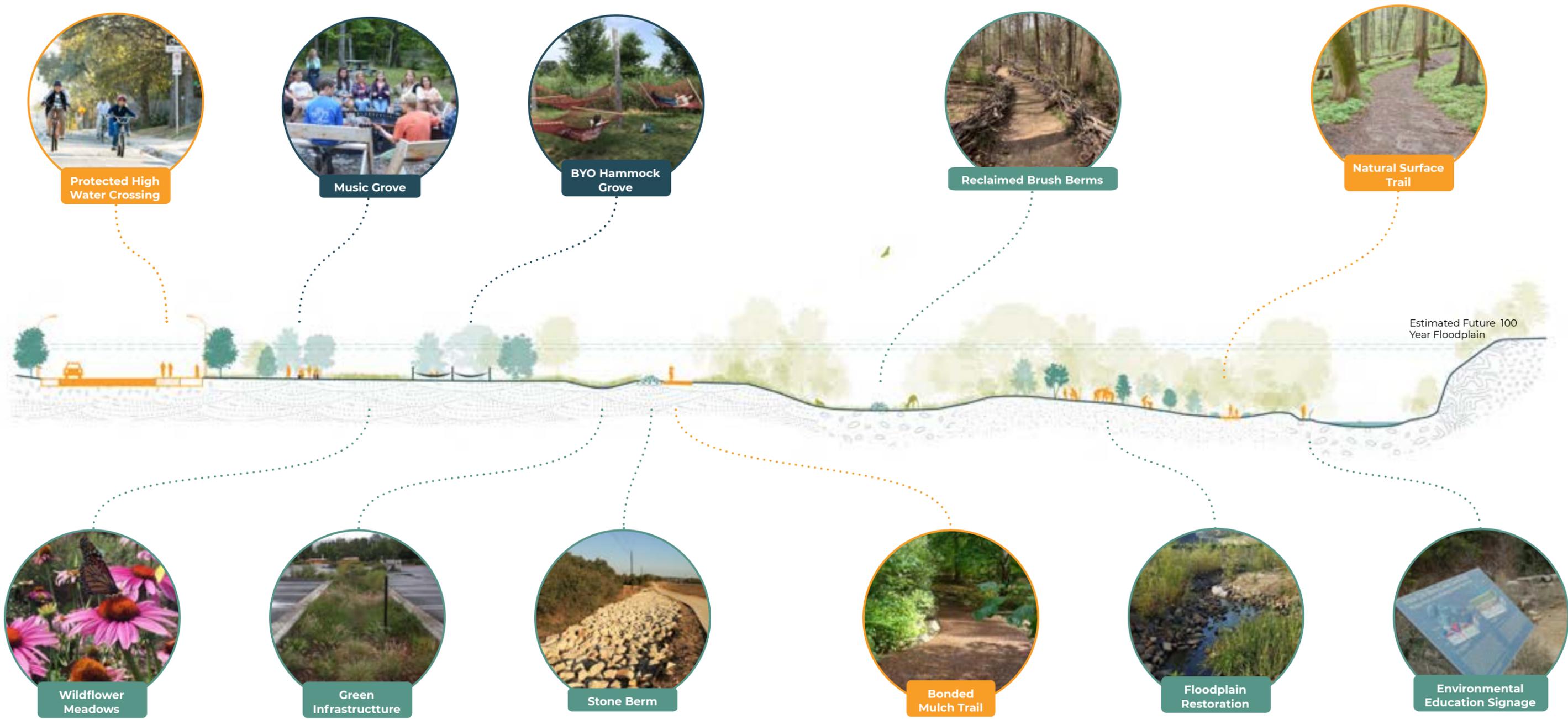
South 1st St.

South Congress Ave.



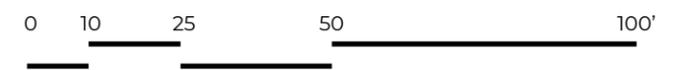
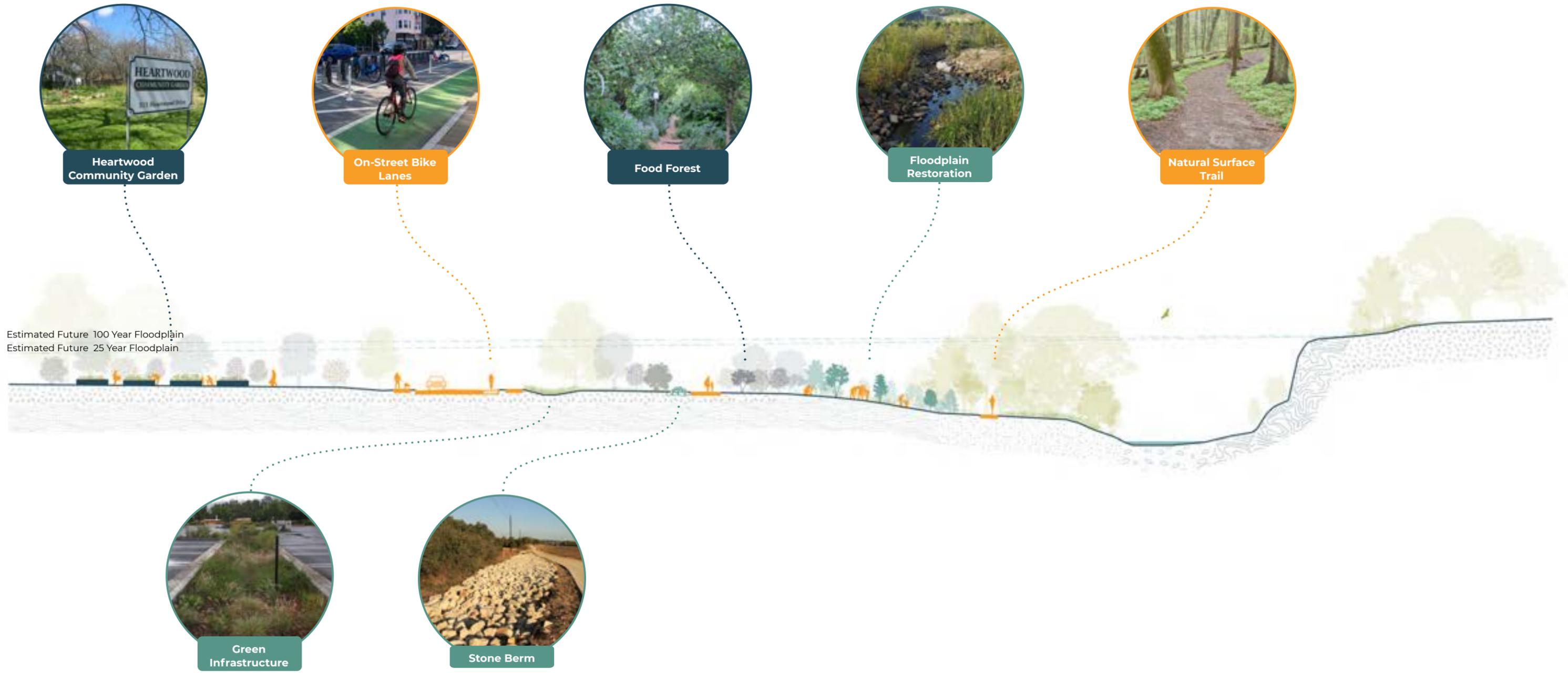
VIEW NORTHEAST AT TOM DONOVAN PARK

Section A-A':



VIEW NORTHEAST AT HEARTWOOD COMMUNITY GARDEN

Section B-B':





Unsafe structures to be demolished



Bike Racks



Water Storage



Outdoor Classroom



Signage



Food Forest



Wildflower Planting



Community Garden

ESTIMATED 25 YEAR FLOODPLAIN
ESTIMATED 100 YEAR FLOODPLAIN

Overlook



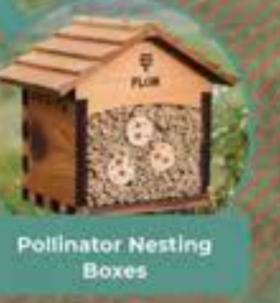
Nature Play



On-Street Parking



Fitness Programming



Pollinator Nesting Boxes



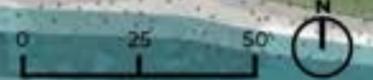
Natural Trail



Invasive Species Management

ORLAND STREET TRAILHEAD

A PARC-owned site at the intersection of South 1st and Orland streets presents opportunities for creek access and amenities. This property includes areas outside of the floodplain, meaning it can accommodate a wider variety of programming and site improvements. This flexibility allows the site to serve as a potential hub for activities such as community gardening, environmental education, nature play, and invasive species management. The site also features a steep descent into the floodplain. A boardwalk or other more extensive site improvements may be necessary to ensure creek access and connectivity.





3: DEVELOPING THE VISION

THE FUTURE CENTRAL WILLIAMSON CREEK IS...

1.

A RESTORED, BIODIVERSE GREENWAY

DESIGN STRATEGIES

- Enhance biodiversity through floodplain restoration
- Preserve the creek's wild character
- Reveal ecology through environmental education experiences
- Balance access with conserving floodplain ecology

3.

AN ACCESSIBLE AND VISIBLE GREENWAY

DESIGN STRATEGIES

- Connect all communities to the creek
- Orient through clear wayfinding
- Reveal the creek's ecology and history
- Prioritize key land acquisition for trail connectivity

2.

A COMMUNITY-CENTERED GREENWAY

DESIGN STRATEGIES

- Support community-built projects
- Create inviting gathering spaces at key nodes
- Integrate community agriculture and agroforestry

4.

AN ACTIVE AND CONNECTED GREENWAY

DESIGN STRATEGIES

- Integrate accessible creek experiences
- Connect to public transportation and community resources
- Create activities for all ages

ARTICULATING COMMON GOALS

The four primary goals and design strategies were developed in close conversation and collaboration with the Central Williamson Creek Community Working Group, The City of Austin Working Group, and the general public. This community engagement process is described in greater detail in Chapter 4.

Creek Idea Cards

“Creek Idea Cards” were used as part of the community engagement process on the digital platform Social Pinpoint and at in-person, socially distanced events to gain an understanding of the types of programs, trails, amenities, and other uses the Community Working Group and general public desired along the trail. These idea cards were organized into four categories, each helping to achieve one of the four main goals of the project.



Idea Card Placement

The most popular idea cards were selected by the community using a digital voting activity on Social Pinpoint. After this process, the design team placed the cards along the greenway using information from existing conditions, comments on the cards, other community engagement outcomes, and conversations with the Community Working Group.

Idea Card Key

- 1. A Restored, Biodiverse Greenway
- 2. A Community-Centered Greenway
- 3. An Accessible and Visible Greenway
- 4. An Active and Connected Greenway

Example Idea Card

Name and Description

This section provides a general overview of the toolkit item.

Limitations

From top-left to bottom-right, these icons indicate the relative cost (low to high), appropriate age-groups (child, youth, adult), flood suitability, and whether the item could be implemented by community volunteers or by a professional contractor.

Wildflower Planting
Siembra de Plantas Silvestres

Planting native wildflowers and grasses that are native to central Texas. These native species provide habitat and food for urban wildlife, such as monarch butterflies and pollinator bee populations.

Sembrar flora nativa de Texas. Estas especies nativas proveen hábitat y comida para la vida silvestre urbana, como las mariposas monarcas y abejas polinizadoras.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Cost: \$\$\$\$

Age: Child, Youth, Adult

Flood: High

Implementation: Professional Contractor

Pairs well with... / Va bien con...

- Invasive Species Management / Manejo de Especies Invasoras
- Creek Restoration / Restauración del Arroyo
- Community Garden / Huerto Comunitario

Considerations / Consideraciones...

- Vacant lots are ideal candidates for wildflower meadow planting. Los parcelas vacías son buenas candidatas para praderas de plantas silvestres.
- Meadows require maintenance, especially in the years immediately after planting.

"Plant wildflowers along the creek"
"Sembrar plantas silvestres a lo largo del arroyo"

Goals

These icons indicate which visioning goals the toolkit item supports. From left to right, the goals are "Conserve the Creek Environment," "Represent the Community, and "Make the Greenway Visible and Accessible." A darkened icon indicates that the toolkit item supports the goal.

Sliders

These sliders provide a detailed overview of the various strengths, weaknesses, and opportunities presented by each toolkit item, as well as the appropriate phase or phases during which the item could be implemented.

Community Voices

Toolkit items were developed through community input and feedback. This section displays comments and quotes from community members relevant to the toolkit item.

Colors

Each toolkit item is color-coded to one of four different categories: Green for nature, blue for community, orange for access and connectivity, and red for active recreation.

Considerations

Each toolkit item comes with its own unique design considerations. Look here for important comments, caveats, and information.

Pairings

The success and viability of each toolkit item is strengthened when paired with other complementary items. This section provides some suggested pairings.

GOAL #1: A RESTORED, BIODIVERSE GREENWAY

DESIGN STRATEGIES:

Enhance biodiversity through floodplain restoration

Williamson Creek and its floodplain are home to an abundance of aquatic and terrestrial creatures. However, this habitat is threatened by large swaths of invasive species. Floodplain restoration, including the removal of invasive species, and planting of native species, will increase biodiversity.

Toolkit Items:

CLEAN-UP DAYS

WILDFLOWER PLANTING

CREEK RESTORATION

POLLINATOR BOXES

Preserve the creek's wild character

Central Williamson Creek Greenway will be kept as natural as possible. This reflects the desires of the neighboring community to have as little impact as possible on the ecology of the creek and to preserve the sense of wilderness in the heart of South Austin.

Toolkit Items:

NATURAL TRAILS

WILDFLOWER PLANTING

CREEK RESTORATION

Reveal ecology through environmental education experiences

Educational experiences along the greenway will facilitate the discovery of the unique ecology, hydrology, and geology of the creek environment.

Toolkit Items:

ENVIRONMENTAL EDUCATION

OUTDOOR CLASSROOM

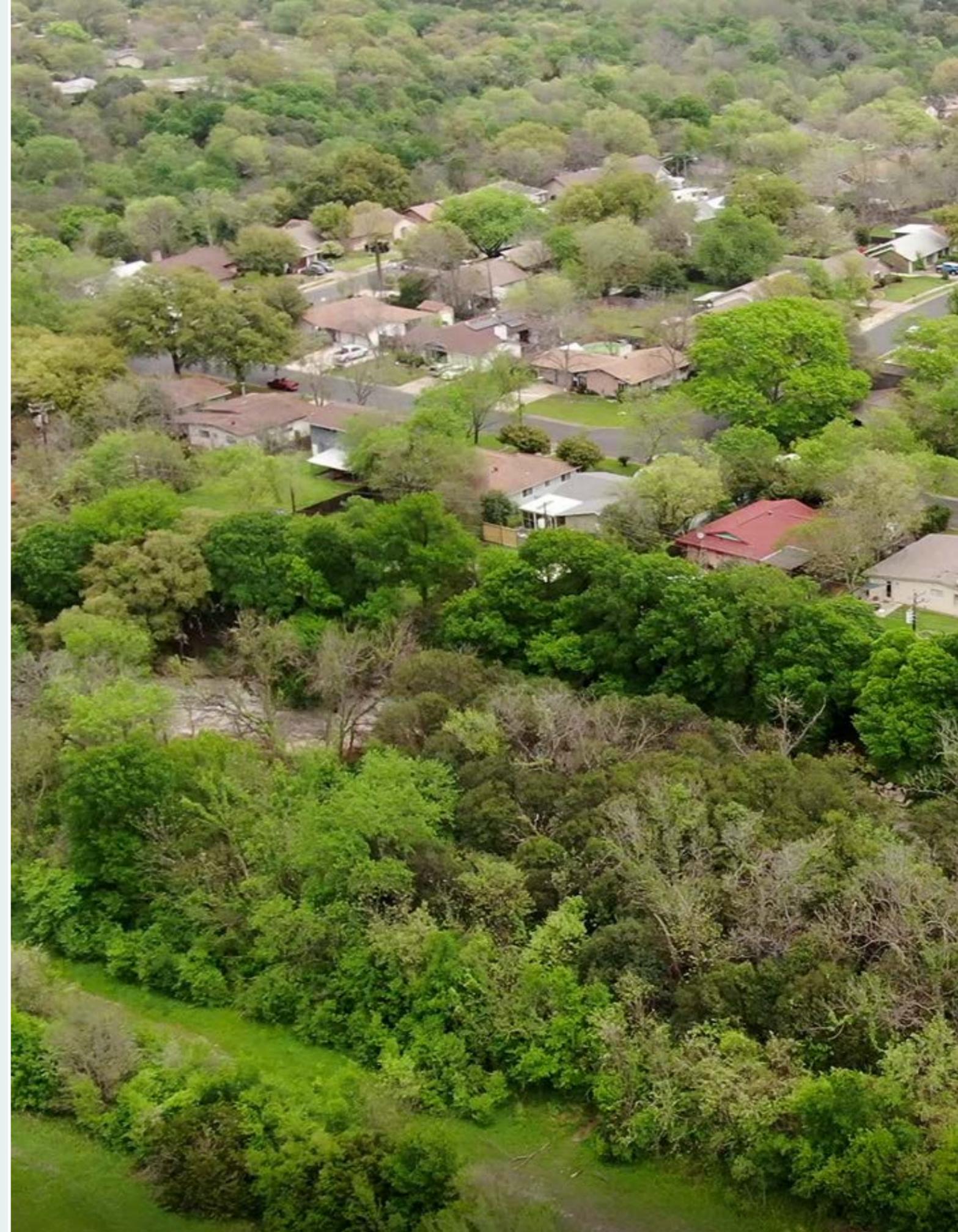
Balance access with conserving floodplain ecology

The trails along Williamson Creek will maintain a safe distance from critical environmental features, such as seeps and springs, fringe wetlands, and rim rock. Low-impact trail materials and interventions will be prioritized.

Toolkit Items:

NATURAL TRAILS

CREEK RESTORATION



 Invasive Species Management

 Pollinator Nesting Boxes

 Wildflower Planting

 Environmental Education Signage

GOAL 1: A RESTORED, BIODIVERSE GREENWAY

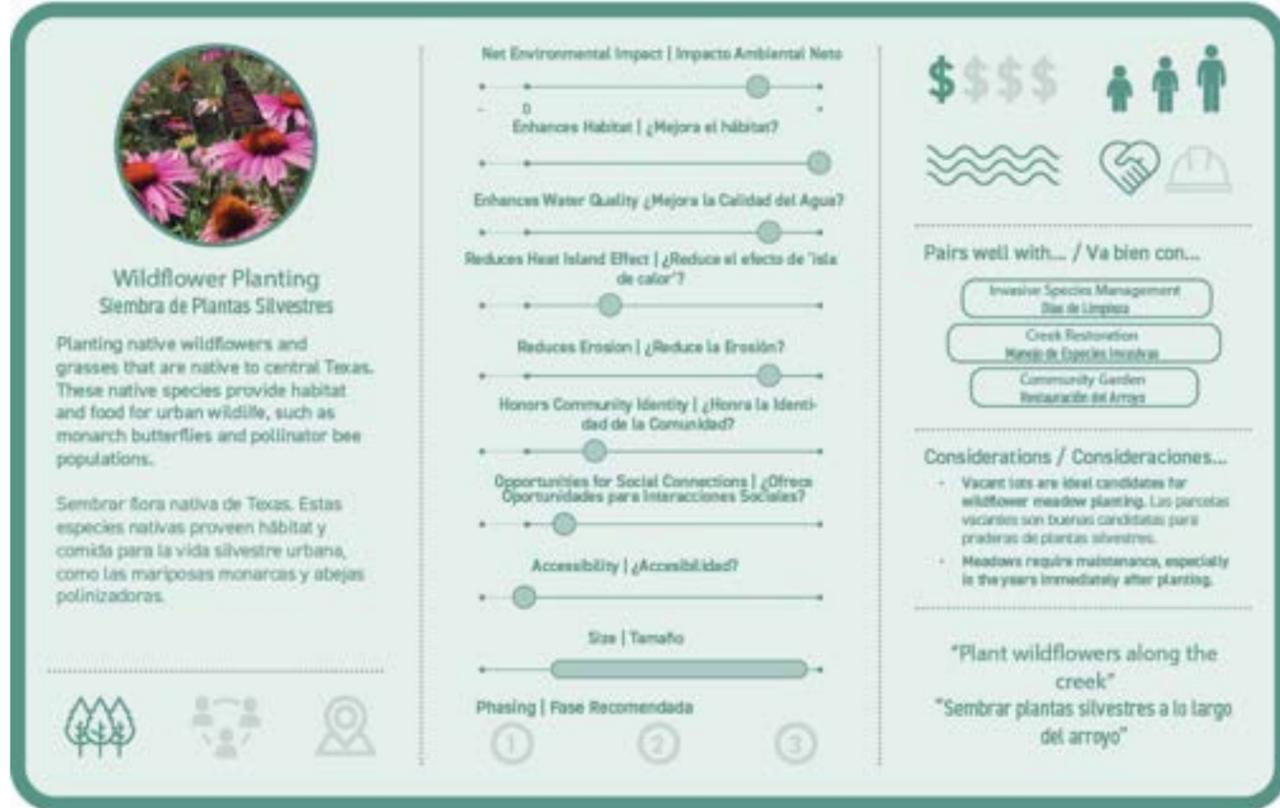
Goal 1 prioritizes the ecological functioning of Williamson Creek and its floodplain, as well as community-based environmental education experiences. Habitat-creation strategies, including pollinator nesting boxes for bees, bats, and nesting birds, and multiple types of restoration, may be paired with educational signage that explains the ecology and hydrology of the creek and its importance to urban wildlife. Reclaimed branch berms and stone berms slow the flow of water, create habitat, and delineate trail and property edges using natural materials. Green infrastructure infiltrates and filters water before it enters the creek.

LEGEND

-  Proposed Trail
-  Dry Creek Trail
-  Stone Berms
-  Reclaimed Branch Berm
-  Tributaries
-  Geology Highlight
-  Fringe Wetland Restoration
-  Creek + Woodland Restoration
-  Green Infrastructure
-  Rim Rock / CEF
-  Wildflower Meadow
-  Est. 25-Year Floodplain
-  Est. 100-Year Floodplain



Creek Idea Cards



Wildflower Planting
Sembrar de Plantas Silvestres

Planting native wildflowers and grasses that are native to central Texas. These native species provide habitat and food for urban wildlife, such as monarch butterflies and pollinator bee populations.

Sembrar flora nativa de Texas. Estas especies nativas proveen hábitat y comida para la vida silvestre urbana, como las mariposas monarcas y abejas polinizadores.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat? \$\$\$\$

Enhances Water Quality | ¿Mejora la Calidad del Agua? 👤👤👤

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

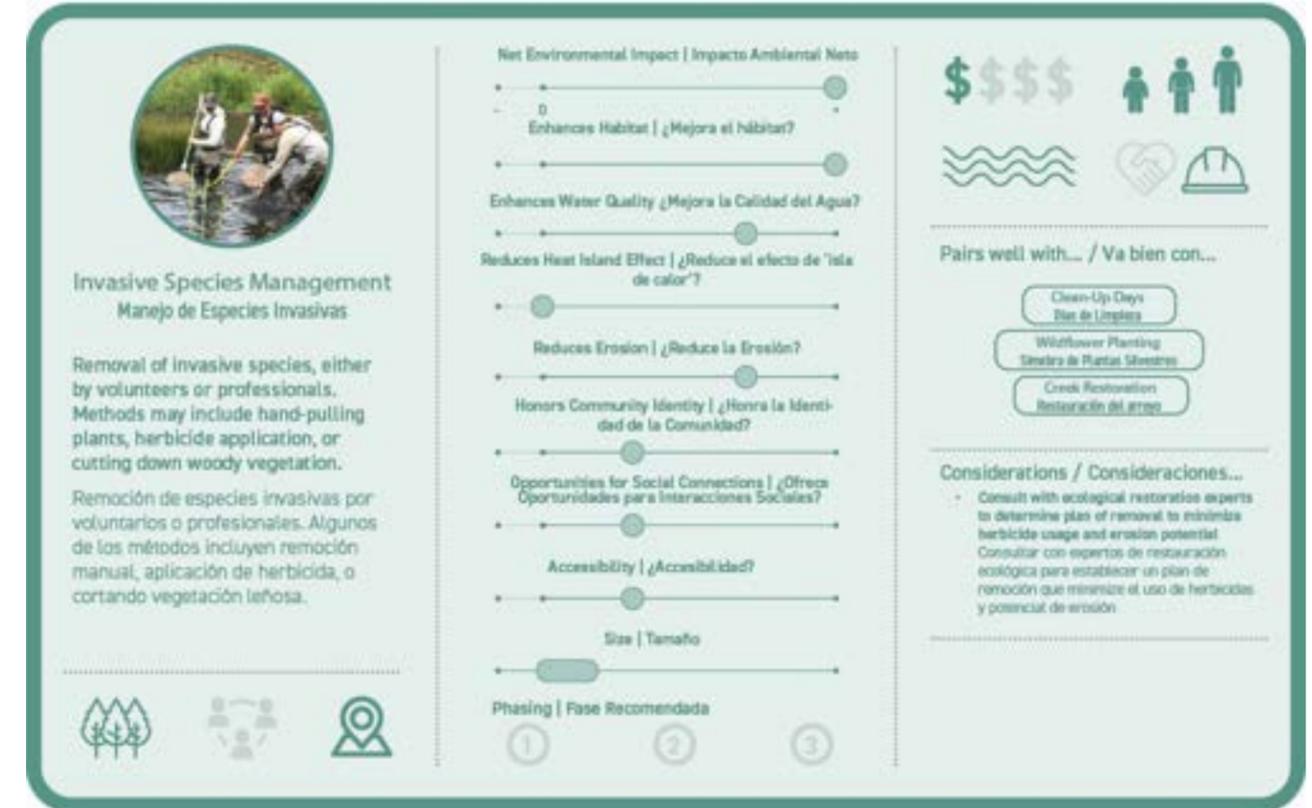
Pairs well with... / Va bien con...

- Invasive Species Management
- Creek Restoration
- Community Garden

Considerations / Consideraciones...

- Vacant lots are ideal candidates for wildflower meadow planting. Las parcelas vacantes son buenos candidatos para praderas de plantas silvestres.
- Meadows require maintenance, especially in the years immediately after planting.

"Plant wildflowers along the creek"
"Sembrar plantas silvestres a lo largo del arroyo"



Invasive Species Management
Manejo de Especies Invasivas

Removal of invasive species, either by volunteers or professionals. Methods may include hand-pulling plants, herbicide application, or cutting down woody vegetation.

Remoción de especies invasivas por voluntarios o profesionales. Algunos de los métodos incluyen remoción manual, aplicación de herbicida, o cortando vegetación leñosa.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat? \$\$\$\$

Enhances Water Quality | ¿Mejora la Calidad del Agua? 👤👤👤

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

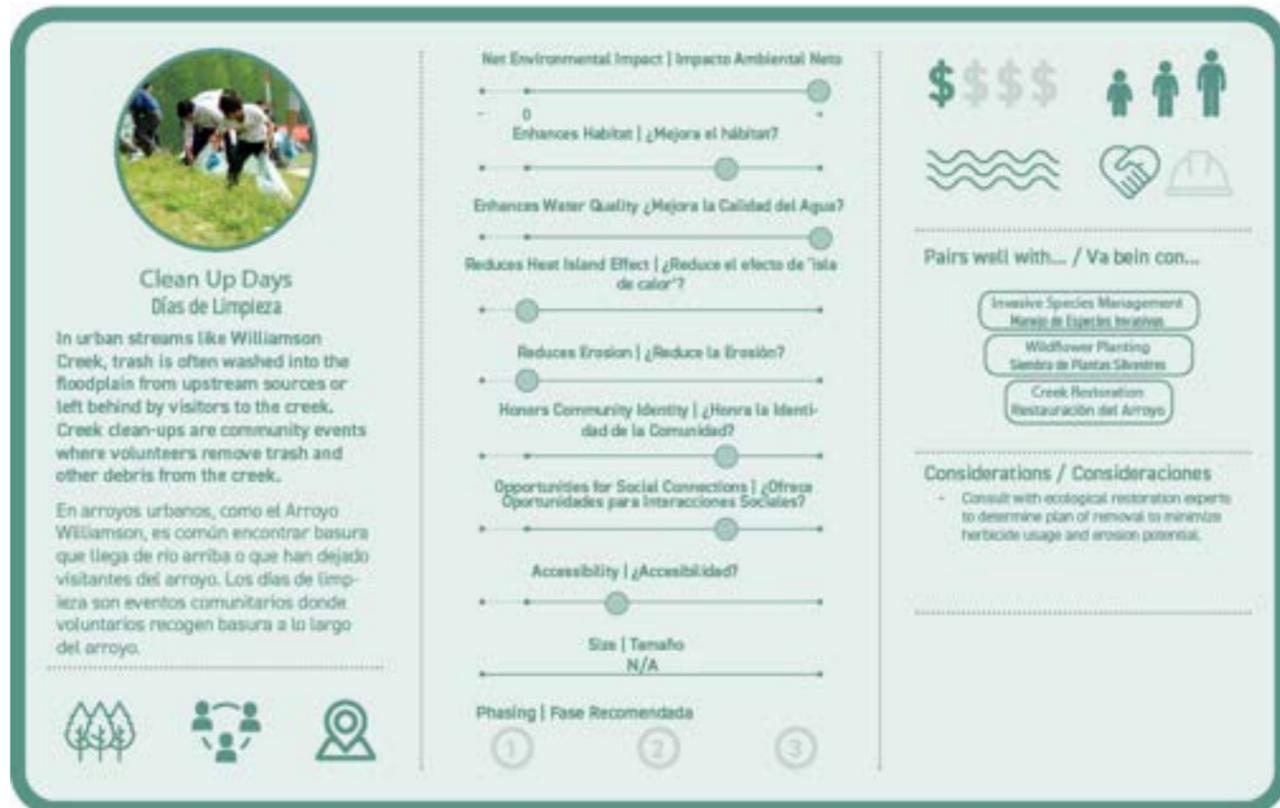
Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Clean-Up Days
- Wildflower Planting
- Creek Restoration

Considerations / Consideraciones...

- Consult with ecological restoration experts to determine plan of removal to minimize herbicide usage and erosion potential. Consultar con expertos de restauración ecológica para establecer un plan de remoción que minimice el uso de herbicidas y potencial de erosión.



Clean Up Days
Días de Limpieza

In urban streams like Williamson Creek, trash is often washed into the floodplain from upstream sources or left behind by visitors to the creek. Creek clean-ups are community events where volunteers remove trash and other debris from the creek.

En arroyos urbanos, como el Arroyo Williamson, es común encontrar basura que llega de río arriba o que han dejado visitantes del arroyo. Los días de limpieza son eventos comunitarios donde voluntarios recogen basura a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat? \$\$\$\$

Enhances Water Quality | ¿Mejora la Calidad del Agua? 👤👤👤

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño
N/A

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Invasive Species Management
- Wildflower Planting
- Creek Restoration

Considerations / Consideraciones

- Consult with ecological restoration experts to determine plan of removal to minimize herbicide usage and erosion potential.



Creek Restoration
Restauración del Arroyo

Work done to improve the environmental health of Williamson Creek in support of biodiversity, recreation, flood management, and habitat.

Trabajo para mejorar la salud ambiental del Arroyo Williamson para proteger la biodiversidad, recreación, manejo de inundaciones, y hábitats que se encuentran a lo largo del mismo.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat? \$\$\$\$

Enhances Water Quality | ¿Mejora la Calidad del Agua? 👤👤👤

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Clean-Up Days
- Invasive Species Management
- Wildflower Planting

Considerations / Consideraciones

- Consult with ecological restoration experts to determine plan for restoration. Consultar con expertos de restauración ecológica para establecer un plan de restauración.

"Erosion has made fencing fall down"
"La erosión ha causado que cercas se caigan."



Educational Programming Programación Educativa

Immersive educational experiences that seek to educate children and adults about Williamson Creek and Austin's ecological systems.
Experiencias educativas de inmersión que buscan educar a niños y adultos sobre el sistema ecológico de el Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño
N/A

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Invasive Species Management
Manejo de Especies Invasivas
- outdoor classrooms
Aulas al Aire Libre
- Creek Restoration
Restauración del arroyo

Considerations / Consideraciones

- Programming may be coordinated with PARD, or local schools. Programación puede ser coordinada con PARD, o escuelas locales.



Green Infrastructure Infraestructura Verde

Green infrastructure, which includes features like rain gardens, bioswales, and permeable pavement, is a way to filter polluted stormwater and infiltrate it into the ground before it washes into Williamson Creek.
La infraestructura verde, incluyendo herramientas como jardines de agua, 'bioswales,' y pavimento permeable, es una manera de filtrar agua de lluvia contaminada antes de que llegue al Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?
N/A

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Parking Lots
Estacionamientos
- public bathrooms
Baños Públicos
- equipment sheds
Casetas de Equipo

Considerations / Consideraciones

- Green infrastructure should be strategically located to minimize impact of parking lots and other structures on the environment. La infraestructura verde debe ser localizada estratégicamente para minimizar el impacto a estacionamientos y otras estructuras en el ambiente.



Pollinator Nesting Boxes Cajas de Nidos para Polinizadores

Many nesting bee species in build nests in aboveground cavities or tunnels in wood or plant stems. Pollinator Nesting Boxes provide nesting resources to bees through the use of hollow bamboo rods or drilled holes in wood.
Muchas especies de abejas crean sus colonias en nidos pre-construidos sobre la tierra, o en tuneles de madera o tallos de plantas. Las Cajas de Nidos para Polinizadores proveen nidos para abejas usando bambú hueco o tubos de madera huecos.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?
N/A

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Wildflower Planting
Siembras de Plantas Silvestres

Considerations / Consideraciones

- These boxes can be hand-made by the community or bought. Estos cajones pueden ser creados a mano por la comunidad o comprados.

"Add Pollinator Nesting Boxes to help Native Bees. Potentially Sponsored by a local business or individuals"
Añadir cajas de nidos para Polinizadores para ayudar a las abejas nativas. Potencialmente auspiciadas por comercios locales o individuos."



Water Storage Almacenamiento de Agua

Water storage installations, such as rain barrels or underground cisterns, that are used to store water stormwater that runs off roofs or other surfaces during a rainfall.
Instalaciones de almacenamiento de agua, tales como barriles de agua o cisternas bajo la tierra, que se utilizan para almacenar agua de lluvia que baja de los tejados u otras superficies durante lluvias.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?
N/A

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Parking Lots
Estacionamientos
- public bathrooms
Baños Públicos
- equipment sheds
Casetas de Equipo

Considerations / Consideraciones

- Water storage should be paired with structures and parking lots to reduce stormwater runoff into the creek. Almacenamiento del agua deben ir a la par con estructuras y estacionamientos para reducir las escorrentías de lluvias hacia el arroyo.

GOAL #2: A COMMUNITY-CENTERED GREENWAY

DESIGN STRATEGIES:

Support community-built projects

Improvements to the Central Williamson Creek Greenway have historically been initiated and completed by passionate community members. These community-led projects will be encouraged with funding from local grant-giving organizations.

Toolkit Items:

LABRYINTH

PUBLIC ART

Create inviting gathering spaces at key nodes

Investments in community gathering spaces at PARD and WPD properties will establish new opportunities for community connection and togetherness at trailheads, community gardens, restoration sites, and outdoor education areas along the greenway.

Toolkit Items:

HAMMOCK GROVES

BENCHES

GATHERING SPACES

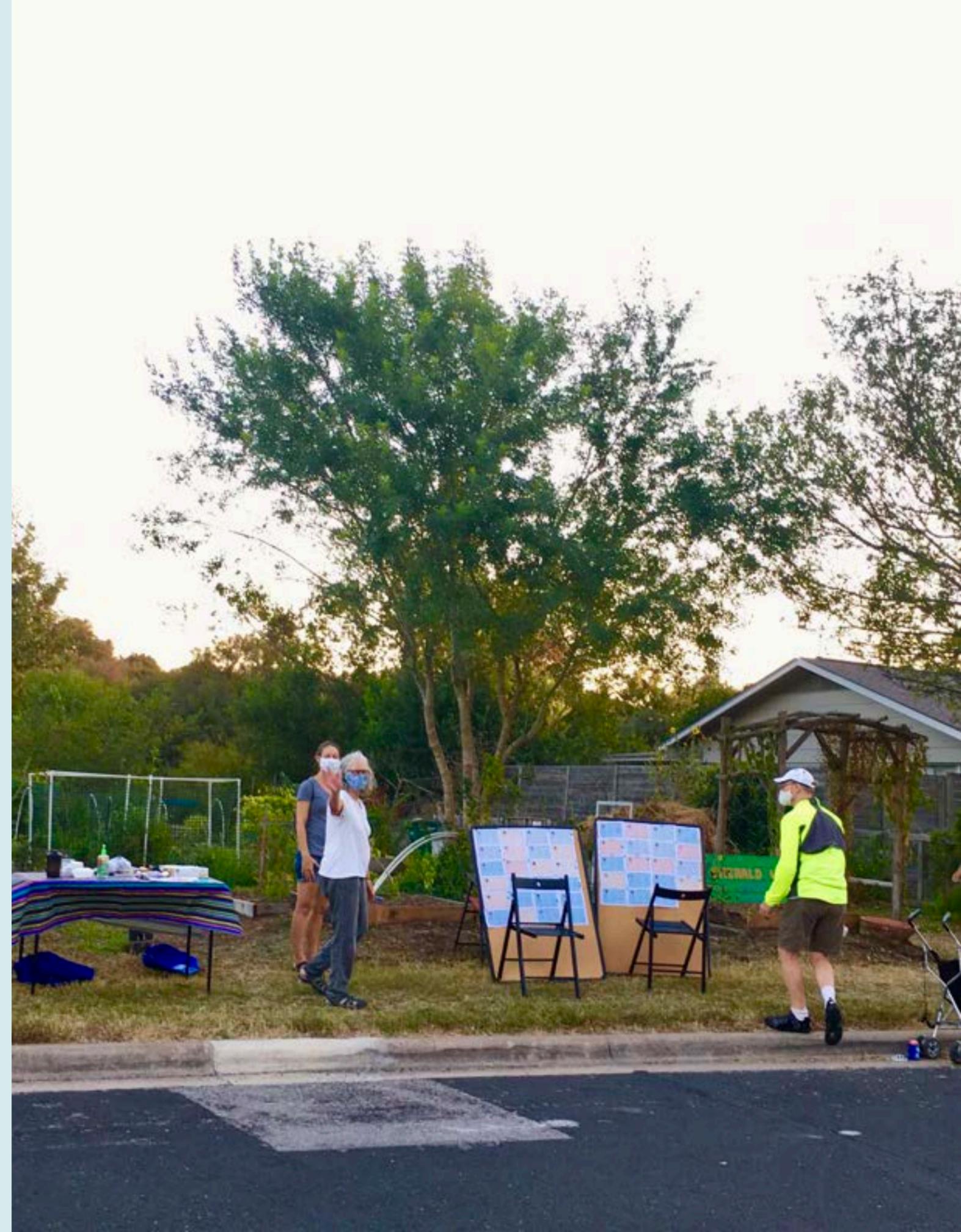
Integrate community agriculture and agroforestry

There are currently two community gardens along Central Williamson Creek Greenway. As the neighborhood grows, there will be increased interest in establishing more gardens. Much of the buy-out land represents a significant opportunity for groves of fruit and nut trees.

Toolkit Items:

COMMUNITY GARDENS

FOOD FOREST



GOAL 2: A COMMUNITY-CENTERED GREENWAY

Goal 2 focuses on the community and social aspects of the greenway. Community-built projects, such as food forests, community gardens, and labyrinths, are placed at major trailheads to create places for social connectedness in the neighborhood. Visitors to the greenway can learn about local events at Community Message boards, where organized volunteer opportunities can be posted.

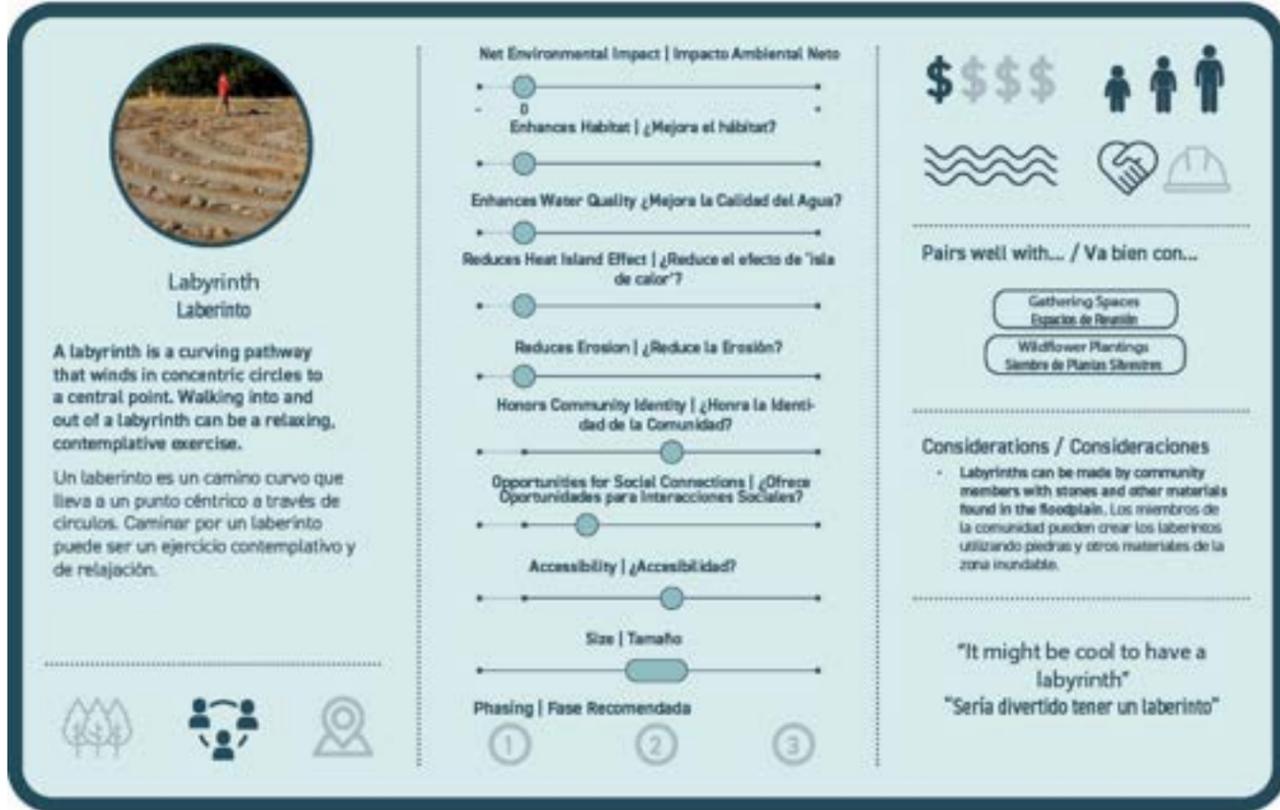
-  **BYO Hammock Grove**
-  **Community Garden**
-  **Community Message Boards**
-  **Labyrinth**
-  **Music Grove**
-  **Nature Play Area**
-  **Food Forest**

LEGEND

-  **Proposed Trail**
-  **Dry Creek Trail**
-  **Food Forest Trees**
-  **Est. 25-Year Floodplain**
-  **Est. 100-Year Floodplain**



Creek Idea Cards



Labyrinth
Laberinto

A labyrinth is a curving pathway that winds in concentric circles to a central point. Walking into and out of a labyrinth can be a relaxing, contemplative exercise.

Un laberinto es un camino curvo que lleva a un punto céntrico a través de círculos. Caminar por un laberinto puede ser un ejercicio contemplativo y de relajación.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

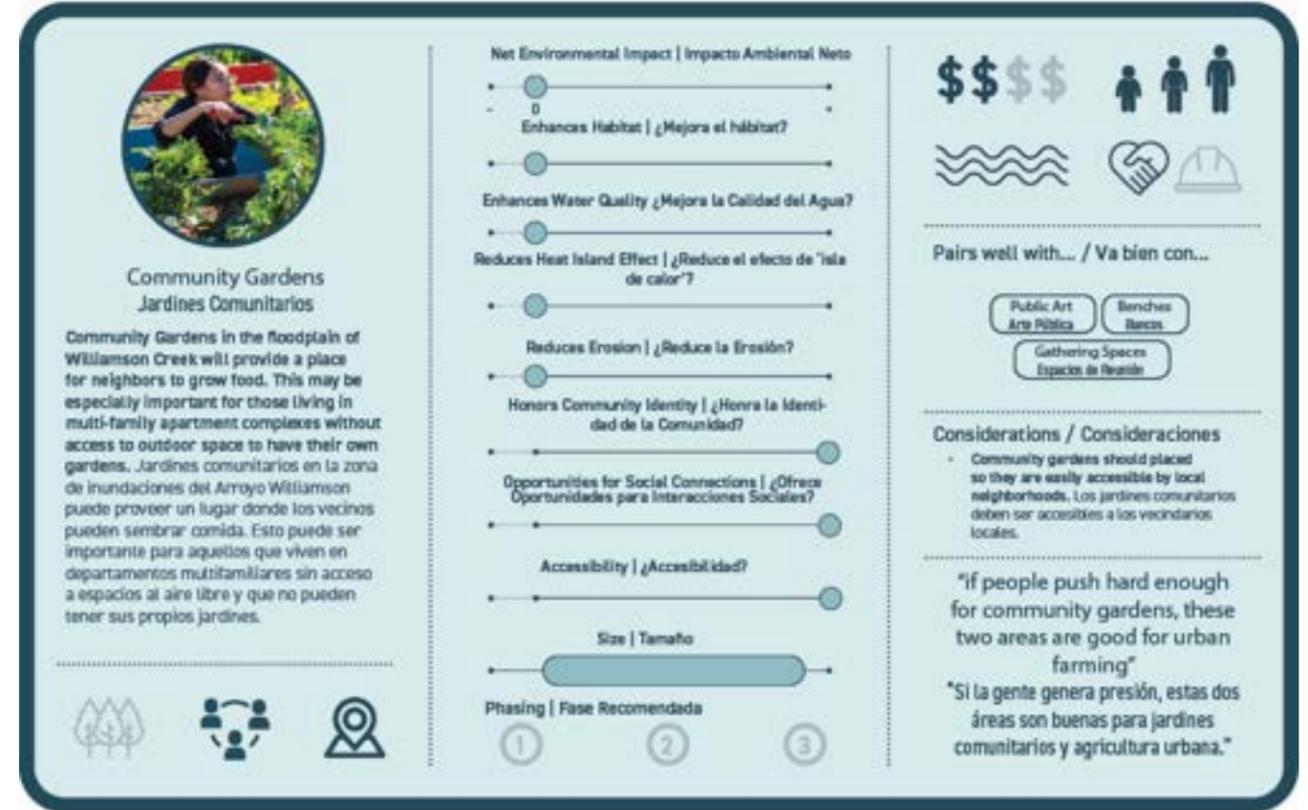
Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Wildflower Plantings / Siembra de Plantas Silvestres

Considerations / Consideraciones

- Labyrinths can be made by community members with stones and other materials found in the floodplain. Los miembros de la comunidad pueden crear los laberintos utilizando piedras y otros materiales de la zona inundable.

"It might be cool to have a labyrinth"
"Sería divertido tener un laberinto"



Community Gardens
Jardines Comunitarios

Community Gardens in the floodplain of Williamson Creek will provide a place for neighbors to grow food. This may be especially important for those living in multi-family apartment complexes without access to outdoor space to have their own gardens. Jardines comunitarios en la zona de inundaciones del Arroyo Williamson puede proveer un lugar donde los vecinos pueden sembrar comida. Esto puede ser importante para aquellos que viven en departamentos multifamiliares sin acceso a espacios al aire libre y que no pueden tener sus propios jardines.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

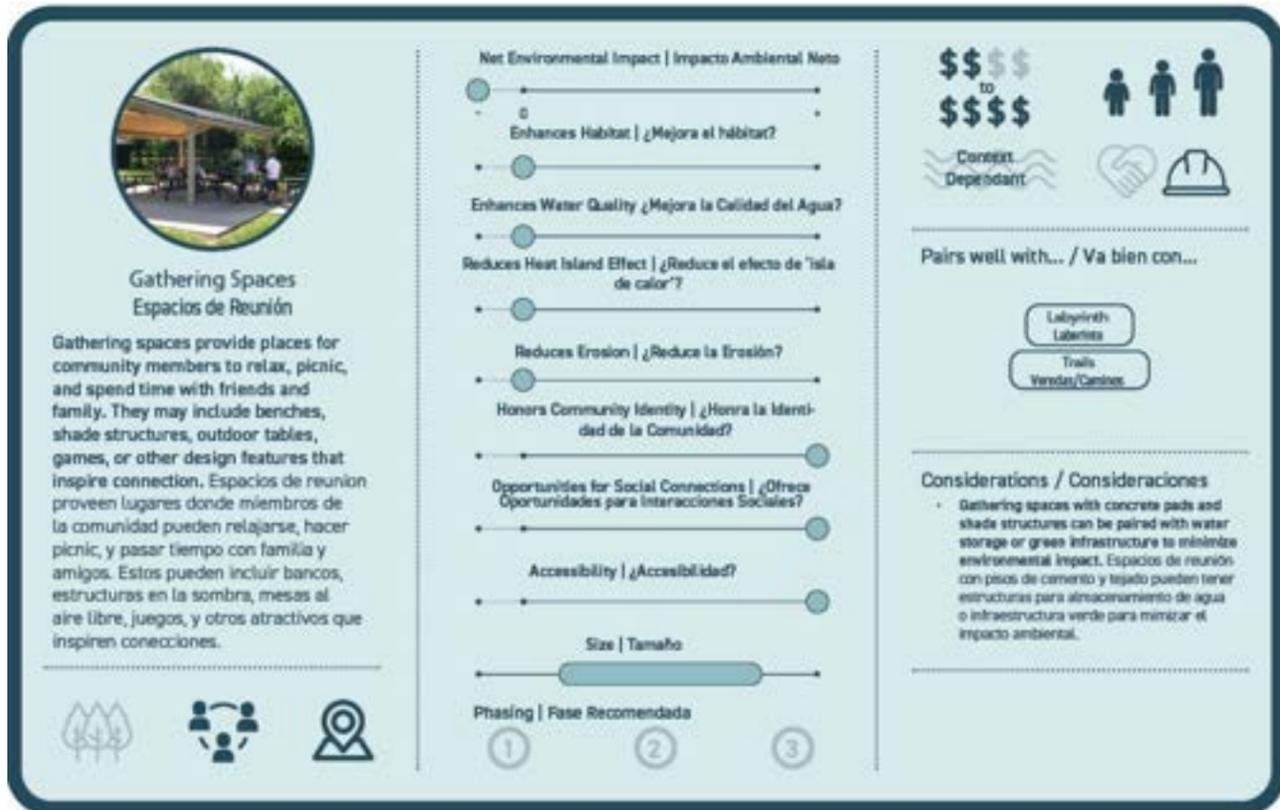
Pairs well with... / Va bien con...

- Public Art / Arte Pública
- Benches / Bancos
- Gathering Spaces / Espacios de Reunión

Considerations / Consideraciones

- Community gardens should be placed so they are easily accessible by local neighborhoods. Los jardines comunitarios deben ser accesibles a los vecindarios locales.

"If people push hard enough for community gardens, these two areas are good for urban farming"
"Si la gente genera presión, estas dos áreas son buenas para jardines comunitarios y agricultura urbana."



Gathering Spaces
Espacios de Reunión

Gathering spaces provide places for community members to relax, picnic, and spend time with friends and family. They may include benches, shade structures, outdoor tables, games, or other design features that inspire connection. Espacios de reunion proveen lugares donde miembros de la comunidad pueden relajarse, hacer picnic, y pasar tiempo con familia y amigos. Estos pueden incluir bancos, estructuras en la sombra, mesas al aire libre, juegos, y otros atractivos que inspiren conexiones.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Labyrinth / Laberinto
- Trails / Veredas/Caminos

Considerations / Consideraciones

- Gathering spaces with concrete pads and shade structures can be paired with water storage or green infrastructure to minimize environmental impact. Espacios de reunión con pisos de concreto y tejado pueden tener estructuras para almacenamiento de agua o infraestructura verde para minimizar el impacto ambiental.



Outdoor Classrooms
Aulas al Aire Libre

Outdoor classrooms are gathering spaces where either children or adults can gather in a group setting to learn, listen, and interact with the environment.

Aulas al aire libre son espacios de encuentro donde niños o adultos se pueden encontrar en grupos para aprender, escuchar, e interactuar con el medio ambiente.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Benches / Bancos
- Public Art / Arte Pública
- Music Groves / Espacios Musicales
- Educational Programming / Programación Educativa

Considerations / Consideraciones

- Outdoor classrooms can be created in collaboration with local schools or other educational institutions. Aulas al aire libre pueden ser creadas en colaboración con escuelas locales u otras instituciones educativas.



Hammock Grove Área de Hamacas

Hammock Groves are designated trees or poles where visitors to Williamson Creek can set up their own hammocks to relax and swing.

Áreas de hamacas son áreas de árboles o postes donde los visitantes del Arroyo Williamson pueden colocar sus hamacas para mecerse y relajarse.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Community Gardens / Jardines comunitarios

Considerations / Consideraciones

- While hammocks can not be placed permanently in parks, community members can bring their own or set up a hammock-share program. A pesar de que las hamacas no pueden ser instaladas permanentemente en los parques, los vecinos pueden traer las suyas o establecer un programa de compartir hamacas.



Community Message Boards Tablero de Mensajes Comunitarios

A community message board may be a small, enclosed bulletin board placed in high-traffic areas to provide a place for community members to advertise community events along Williamson Creek.

El tablero de mensajes comunitario puede ser un tablón cerrado de anuncios pequeño colocado en un área de mucho tráfico para que los vecinos puedan promocionar eventos comunitarios a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Trails / Vías / Caminos
- Signage / Letreros

Considerations / Consideraciones

- Community message boards should be placed along trails in high-traffic areas. Los tableros comunitarios de mensajes deben ser colocados a lo largo del camino en áreas de mucho tráfico.



Benches Bancos

A bench is a long seat on which multiple people may sit at the same time. They may be placed along the trail to provide places to rest, or at playgrounds and other gathering spaces.

Un banco es un asiento largo donde múltiples personas se pueden sentar al mismo tiempo. Se pueden colocar a lo largo del camino para proveer lugares de descanso, o en parques y otros lugares de encuentro.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Trails / Vías / Caminos
- Signage / Letreros

Considerations / Consideraciones

- Benches can be designed to be a form of public art. Los bancos pueden ser diseñados para ser una forma de arte público.



Public Art Arte Pública

Outdoor public art varies, but may be sculptures, artistic benches, or other installations that enhance the identity of the Williamson Creek community and fosters community pride and a sense of belonging.

El tablero de mensajes comunitario puede ser un tablón cerrado de anuncios pequeño colocado en un área de mucho tráfico para que los vecinos puedan promocionar eventos comunitarios a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat?
- Enhances Water Quality | ¿Mejora la Calidad del Agua?
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?
- Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Creek Restoration / Restauración del Arroyo
- Wildflower Planting / Siembras de plantas silvestres
- Benches / Bancos

Context Dependent

Considerations / Consideraciones

- Public art may be coordinated with Austin's AIPP (Art in Public Places) program. Arte pública puede ser coordinada con el programa de AIPP (Art in Public Places).

"Would love to see Art from local artist along the trail."
"Me encantaría ver arte de artistas locales a lo largo del camino."

GOAL #3: AN ACCESSIBLE AND VISIBLE GREENWAY

DESIGN STRATEGIES:

Connect all communities to the creek with low-impact trails

Central Williamson Creek Greenway is a local recreational amenity that should be easily accessible to all surrounding communities through a distributed network of clear, visible trailheads and trails that minimize impacts to the environment.

Toolkit Items:

NATURAL TRAILS

Orient through clear wayfinding

Continuous signage along the creek and at trailheads will orient visitors as they enter the creek and make their way along the trail or to neighborhood resources, such as community gardens, schools, and convenience stores.

Toolkit Items:

SIGNAGE

Reveal the creek's hydrology, ecology, and history

Central Williamson Creek Greenway has an abundance of interesting natural features, such as rim rock, fringe wetlands, evidence of past volcanic activity. Educational signage along the trail will reveal their stories.

Toolkit Items:

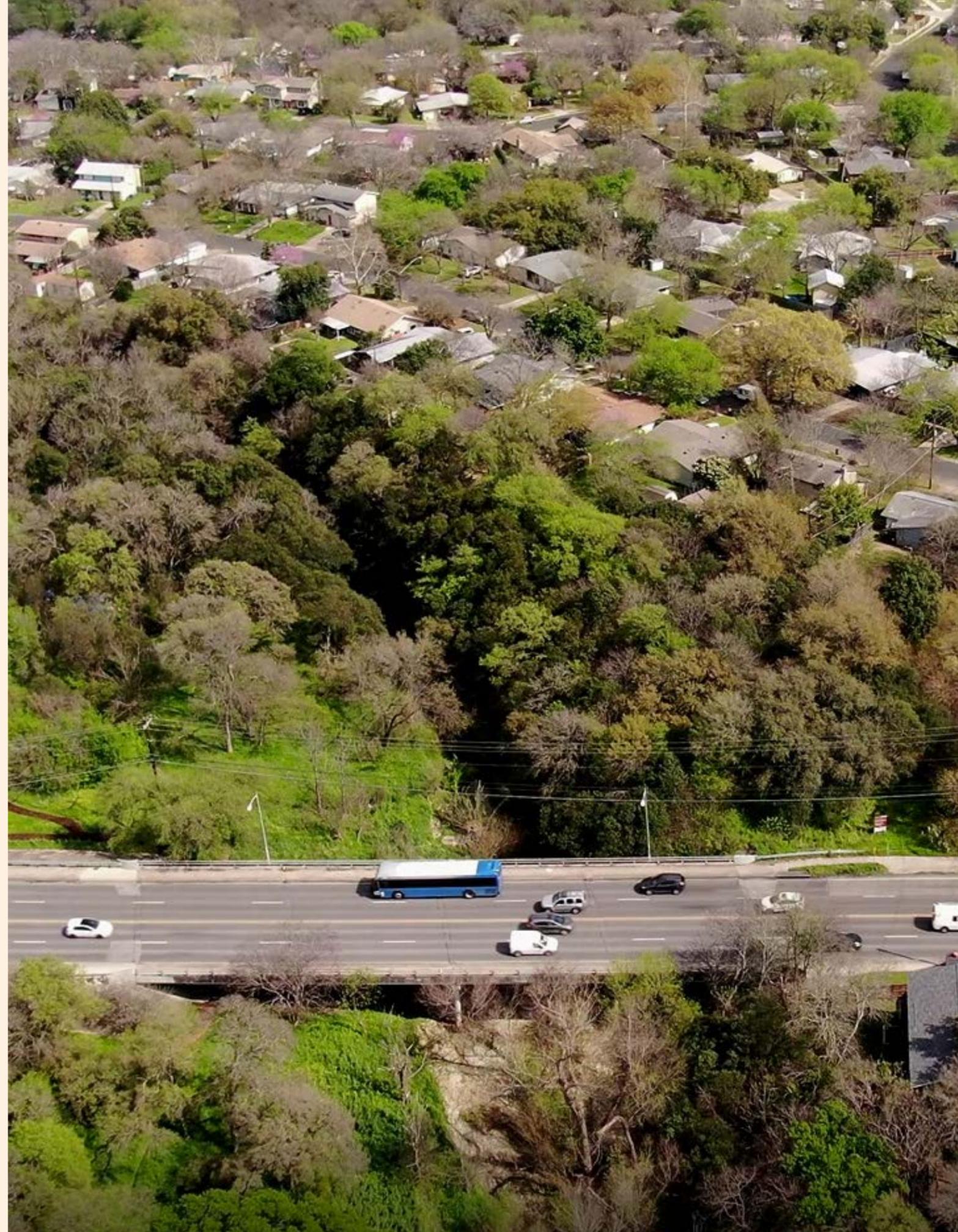
ENVIRONMENTAL EDUCATION

Prioritize key land acquisition for trail connectivity

Land acquisition from private property owners adjacent to the creek will create a continuous, connected trail along the Central Williamson Creek Greenway.

Toolkit Items:

LAND ACQUISITION





GOAL 3: AN ACCESSIBLE AND VISIBLE GREENWAY

Goal 3 highlights the community desire to make the greenway easily accessed and easy to enter from the street. Well-distributed wayfinding signage both on the street and in the greenway will help visitors orient themselves. Weather warning signage will warn community members of predicted storm events and fast-flowing water in the creek. Land acquisition will increase accessibility of the greenway, so visitors can use one, continuous path from S. Congress Avenue to Menchaca Road.

A Land Acquisition

T Wayfinding Signage

▲ Weather Warning Signage

LEGEND

T Trailhead

— Proposed Trail

— Dry Creek Trail



Creek Idea Cards



Natural Trail
Vereda Natural

Natural trails do not have any paved or aggregate surfacing. They are typically mowed grass or bare soil, and may be covered in a layer of mulch or other decomposable material.

Las veredas naturales no tienen superficies pavimentadas o agregadas. Usualmente son grama cortada o tierra, y pueden ser cubiertas por una capa fina de mantillo o material que se descompone.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

\$\$\$\$\$

Pairs well with... / Va bien con...

gathering spaces
Espacios de Reunión

benches
Bancos

creek restoration
Restauración del Arroyo

outdoor fitness equipment
Equip. de Gimnasio al Aire Libre

Considerations / Consideraciones

Natural trails may be eroded during flood events. Las veredas naturales pueden ser erosionadas durante períodos de inundaciones.

"Connect to patchwork lots via the Richmond trib. On these shady lots, we could do a 'figure 8' mulch trail, focus on biodiversity, install benches." "Conectar propiedades a lo largo del tributario Richmond. En estos espacios con sombra se podría hacer una 'figura 8' con mantillo, enfocarse en la biodiversidad, e instalar bancos."



Land Acquisition
Adquisición de tierras

Land Acquisition is the process of acquiring property or pieces of property adjoining the creek to create a continuous greenway trail or to create additional public open space.

Adquisición de tierras es el proceso de adquirir propiedades o parte de propiedades para crear una cinta verde continua o crear espacios públicos adicionales.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

\$\$\$\$\$

Pairs well with... / Va bien con...

Trails
Veredas / Caminos

Considerations / Consideraciones

Work with PARO to make recommendations on land acquisition. Trabajar con PARO para hacer recomendaciones de adquisición de tierras.

"There is an abandoned/unused business space right now that has available parking and access to the trail... parks should purchase this space."

"Hay un comercio abandonado/sin usar ahora mismo que tiene estacionamiento disponible y acceso a la vía... [el departamento de] parques debería comprar este espacio."



On-Street Bike Lanes
Carril de bicicletas en la calle

Bike lanes may be placed along roads that access Williamson Creek to provide safe routes of travel for bicyclists from other neighborhoods or major thoroughfares to the Greenway.

Carriles de bicicletas pueden ser incorporados a lo largo de las carreteras que accesan al Arroyo Williamson para proveer rutas seguras de viaje para ciclistas de otros vecindarios o vías mayores de la Cinta Verde.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

\$\$\$\$\$

Pairs well with... / Va bien con...

Green Infrastructure
Infraestructura Verde

Considerations / Consideraciones

Bike lanes should connect CWCG to adjacent trails and the neighborhood. Carriles de bicicletas deben conectar CWCG a otras vías y vecindarios.

"There's a plan to create a trail following an old rail line starting here, could be a great reason to get a sidewalk/bicycle path extension along Vinson to connect that trail and the greenway!" "Hay un plan para crear una vía a lo largo de la línea del tren comenzando aquí, que sería una buena razón para tener una vía de peatones/ciclistas a lo largo de Vinson que conecta esa vía con la cinta verde!"



Weather Warning Signage
Letreros de advertencia del clima

Warning signage and system regarding flash flooding and greenway access.

Letreros de advertencia sobre inundaciones repentinas y acceso a la vía verde.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

\$\$\$\$\$

Pairs well with... / Va bien con...

Trailhead
Entrada a la vereda/camino

Considerations / Consideraciones

Can be a general sign or as complex as an updated series of warnings. Puede ser un letrero o una serie de advertencias.

"Need a warning system for people in the greenway when storms are expected."

"Se necesita una sistema de advertencia para la gente que este en la cinta verde cuando se esperan tormentas."

GOAL #4: AN ACTIVE AND CONNECTED GREENWAY

DESIGN STRATEGIES:

Connect to Public Transportation and Community Resources

Completion of a continuous trail along Williamson Creek provides an enormous opportunity for an east-west trail connection throughout south Austin. This trail will connect the surrounding neighborhoods to existing and future destinations, such as bus stops, convenience stores, schools, community gardens, and other community resources.

Toolkit Items:

BIKE RACKS

MOUNTAIN BIKING TRAILS

Design for Accessible Creek Experiences

Central Williamson Creek will provide ADA-accessible creek experiences for those of all abilities.

Toolkit Items:

PATHS

Integrate Activities for All Ages

Trailheads and other community gathering spaces will include active and educational activities for all ages, from outdoor classrooms for children to environmental education signage for all ages. At large trailheads, lawns will provide open spaces for all-ages community events and fitness programs.

Toolkit Items:

FITNESS PROGRAMS



Future Bergstrom Spur
Urban Trail

GOAL 4: AN ACTIVE AND CONNECTED GREENWAY

Goal 4 prioritizes active recreation along the greenway and how trail connections to neighborhood bike routes, adjacent urban trails, and neighborhood resources can make Central Williamson Creek Greenway a key east-to-west hike and bike trail that makes active transportation easy and improves community health. The creation of a "high water route" along urban streets (shown in orange) ensures that the trail will be usable even when the creek is flowing after a rain.

 Mountain Biking

 Fitness Programming

- LEGEND**
-  Proposed Trail
 -  Dry Creek Trail
 -  Existing Bike Lanes
 -  Proposed Bike Lanes
 -  High Water Route
 -  Distance Markers
 -  Proposed Trail Connections



Creek Idea Cards



Mountain Biking Trail
Vías/Caminos de Ciclismo de Montaña

Mountain biking trails provide off-road terrain loops or paths for mountain bikes. These trails are often, but not always, for exclusive use by bikers to prevent accidental collision with pedestrians.

Las veredas de ciclismo de montaña proveen terreno fuera de la carretera para los ciclistas de montaña. Estas veredas a veces, pero no siempre, son exclusivamente para el uso de ciclistas para prevenir accidentes con peatones.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Costs: \$\$\$\$\$\$ to \$\$\$\$

Context: People, Nature, Infrastructure

Pairs well with... / Va bien con...

Stairable Areas / Áreas de pátio

Considerations / Consideraciones

- Mountain biking trails should be carefully designed to avoid erosion. Las vías para ciclistas de montaña deben ser diseñadas con precisión para evitar erosión.







Bike Racks
Aparcabicis

Bike racks provide a place for those visiting Central Williamson Creek Greenway to park and lock their bikes.

Los aparabicis proveen lugar para estacionar y asegurar las bicicletas para los visitantes de la Cinta Central Verde del Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Costs: \$\$\$\$\$\$

Context: People, Nature, Infrastructure

Pairs well with... / Va bien con...

Trails / Veredas/Caminos

Signage / Señales

Parking Lots / Estacionamiento

Considerations / Consideraciones

- Bike racks should be placed at trailheads and next to parking lots. Aparabicis deben ser colocados en las entradas a las vías/caminos y cerca de los estacionamientos de autos.







Fitness Programming
Programación de Ejercicios

Fitness programming may include a wide variety of planned group activities led by fitness instructors, including outdoor yoga classes, community hikes, and races.

Programas de ejercicios pueden incluir una gran variedad de actividades grupales lideradas por un instructor, incluyendo yoga, caminatas comunitarias, y carreras.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño
N/A

Phasing | Fase Recomendada

Costs: \$\$\$\$\$\$

Context: People, Nature, Infrastructure

Pairs well with... / Va bien con...

Disc Golf / Disco Golf

Considerations / Consideraciones

- Fitness programming can be coordinated with local gyms or PARO. Programación de ejercicios puede ser coordinado con gimnasios locales o PARO.







4: COMMUNITY ENGAGEMENT

ENGAGEMENT STRATEGY

To ensure a process of co-creation of the vision for the Central Williamson Creek Greenway between the consultants and community, an extensive and comprehensive engagement strategy with both the Community Working Group and the general public was planned for this project. However, due to the COVID-19 crisis beginning in March 2020 and continuing throughout the entirety of the project, much of this engagement shifted from in-person to online, digital engagement with some outdoor, socially distanced “creekside” events, where participants could pick up a “creeckpack” of engagement activities in English and Spanish. These activities could also be mailed to community members upon request.

DIGITAL ENGAGEMENT

The majority of digital engagement took place using a platform called Social Pinpoint. Virtual Community Working Group and City Working Group meetings were held monthly on Zoom (See schedule on pages 14 - 15). Three public meetings were held on Zoom to demonstrate Social Pinpoint, present designs, and solicit feedback.

Community Mapping

During the Existing Conditions Phase, community members were asked to use Social Pinpoint to geographically share their ideas, activities, and unique places along the Greenway. Categories included identifying locations for “Unique and Interesting Features,” “Ideas and Suggestions,” “Trailheads,” and “Challenges.” This online mapping activity was open from July 23rd, 2020 to October 13th, 2020.

Toolkit Idea Cards

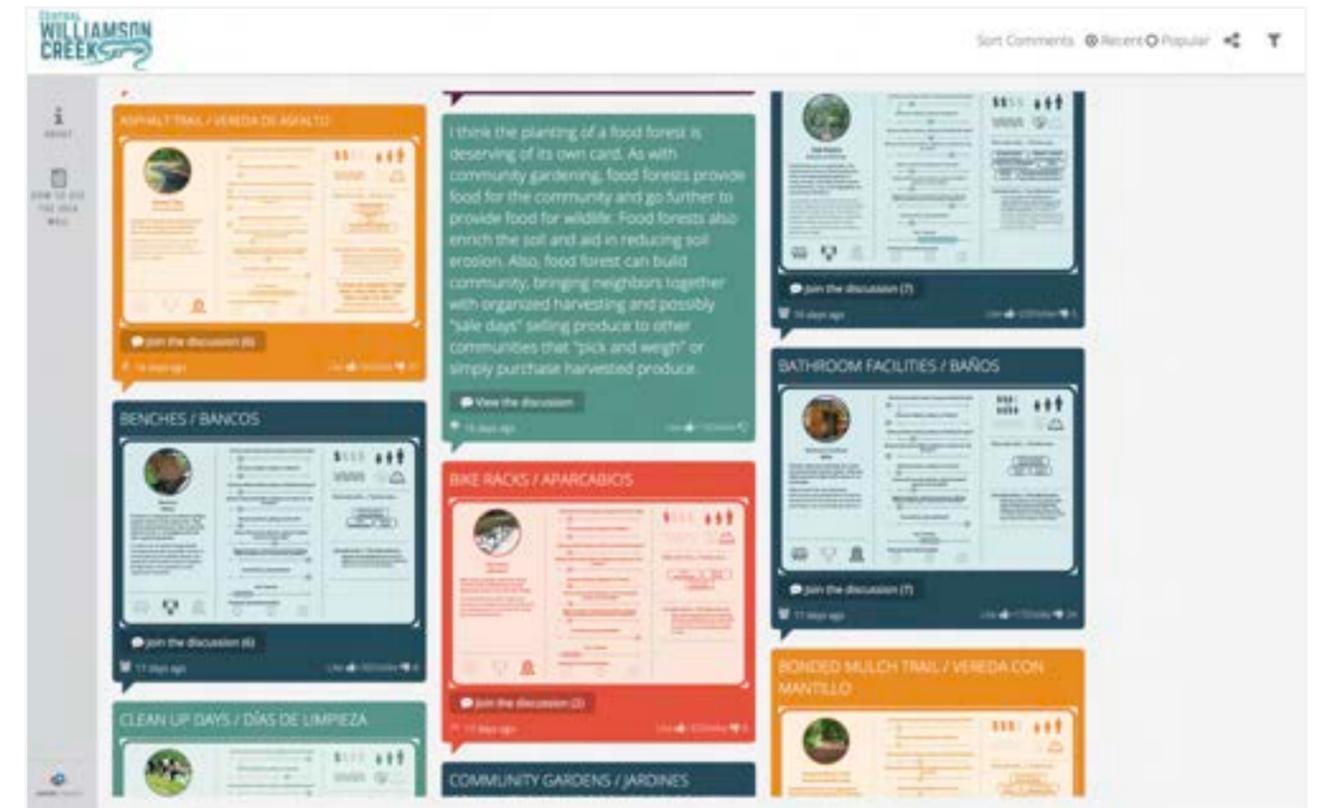
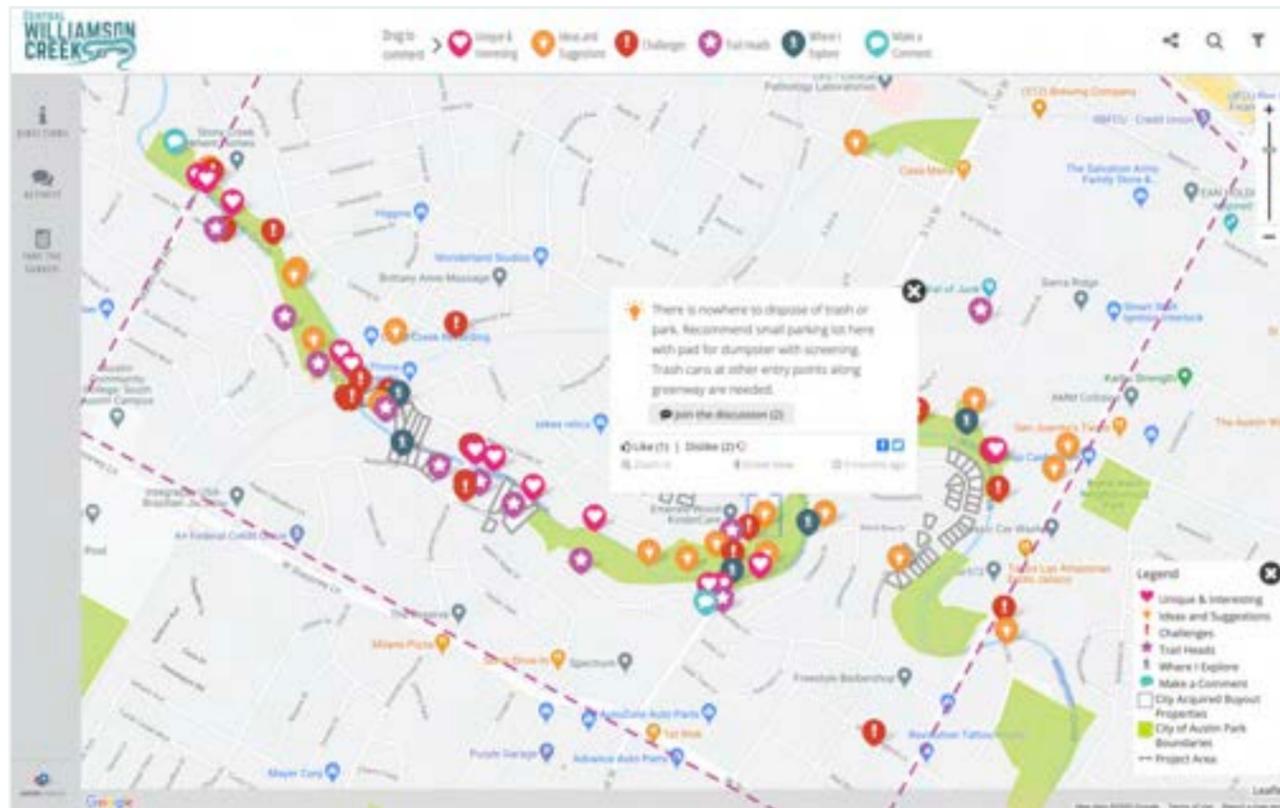
Findings from the Community Greenway Map and outcomes from the Storytelling (see page 91), conversations with the Community Working Group, and other community engagement activities were then used to craft the four primary goals of the Central Williamson Creek Green Vision Plan.

- 1. A Restored, Biodiverse Greenway**
- 2. A Community-Centered Greenway**
- 3. An Accessible and Visible Greenway**
- 4. An Active and Connected Greenway**

These four goals guided the development of 52 unique “Creek Idea Cards,” each organized into one of the four goal categories. Community members on the Central Williamson Creek Greenway Social Pinpoint website voted on ideas by adding a thumbs up on ideas they wanted to see at the Greenway or a thumbs down on ideas they did not want to see. After voting closed on November 7th, the design team tabulated the votes, and integrated the highest scoring idea cards into the Vision Plan for the Central Williamson Creek Greenway.

Idea Card Key

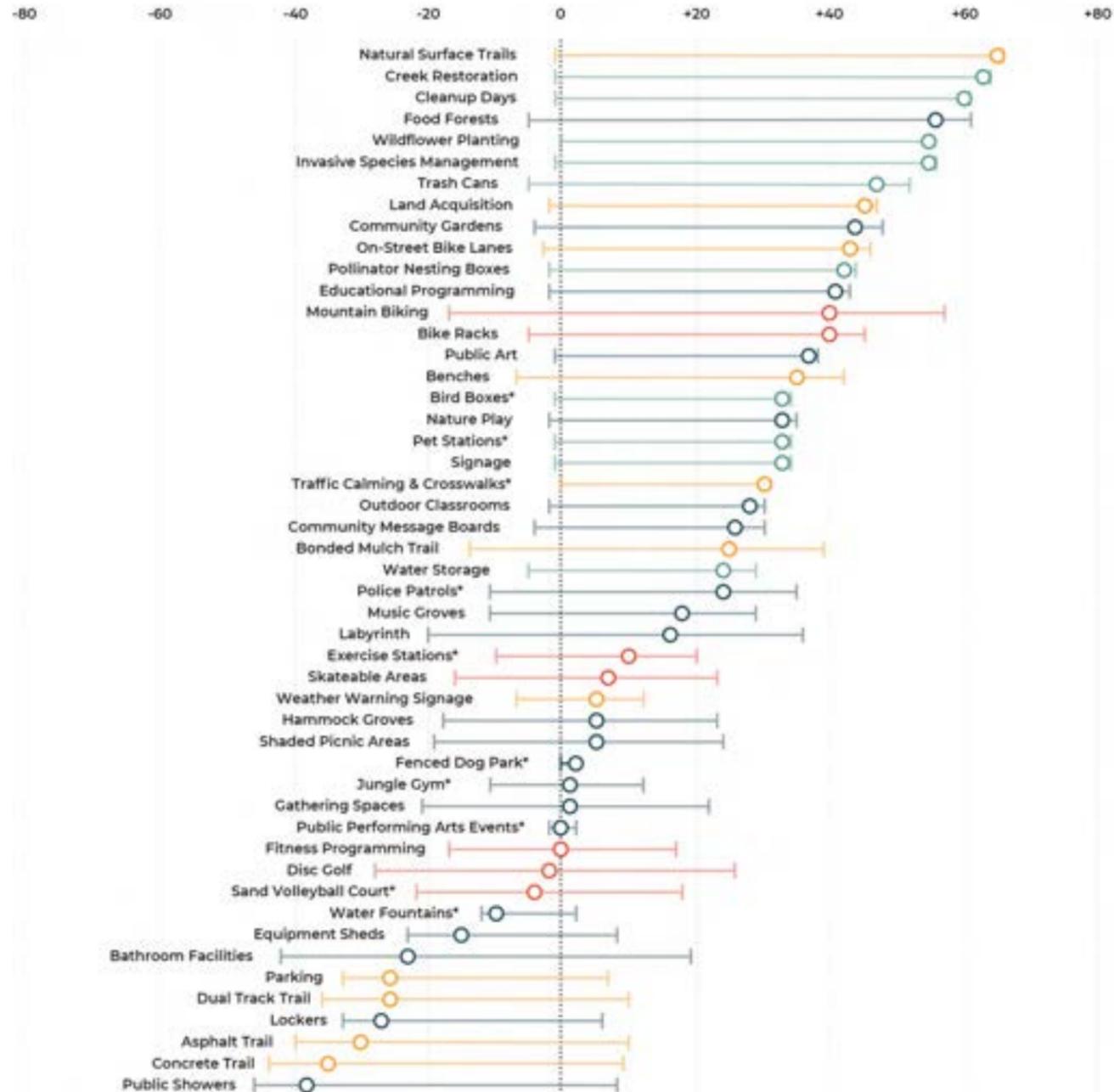
- 1. A Restored, Biodiverse Greenway
- 2. A Community-Centered Greenway
- 3. An Accessible and Visible Greenway
- 4. An Active and Connected Greenway



Idea Card Scores

Once the voting period on Social Pinpoint closed, the results were tabulated and summarized. This graphic shows the net score each creek idea card received. Idea

cards received one point when they received a “thumbs up” and one negative point when they received a “thumbs down.” The sum of these points produced the net score.



* Indicates ideas added by community members via Social Pinpoint during feedback period

Vision Plan- Placement of Creek Idea Cards

After the voting period on Social Pinpoint closed, the idea cards were then placed along the Greenway using information gathered from existing conditions, conversations with both the working group, and insights from the initial Social Pinpoint Greenway Mapping Exercise. A conceptual design for the entire greenway, as well as two trailheads at South 1st and Orland streets and Meadow Creek Drive were available for comment until January 18th, 2021.



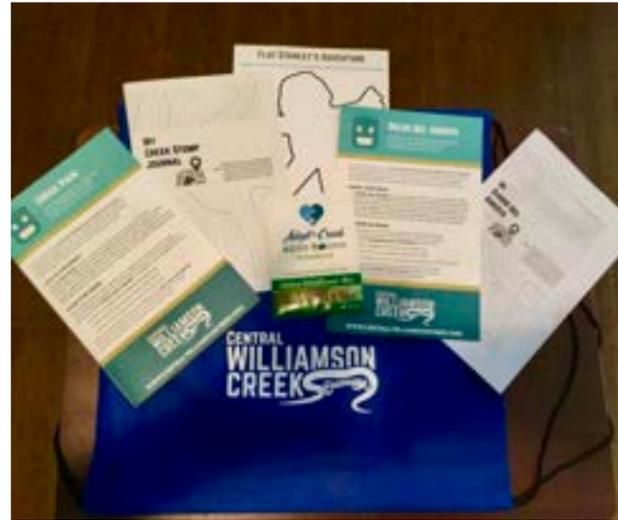
Comment on the Central Williamson Creek Greenway Vision Plan in the forum below!

You can download the document from the Site Design section above.

1. Are there any ideas you would like to see at locations we don't currently have shown?
2. Are there any ideas you see that should be removed from their locations because they are not ideal for that location?
3. What do we not have enough of?
4. What do we have too much of?
5. Are there any other community-led ideas that should be added?
6. What are we missing?
7. Do you see anything that doesn't work?

IN-PERSON ENGAGEMENT

Due to the COVID-19 crisis, in-person engagement was limited to four “Creek Chats,” where Community Powered Workshop and representatives from the Community Working Group and representatives from the Community Working Group facilitated an in-person version of the Creek idea card activity. These events were socially distanced and held outdoors at picnic tables along Central Williamson Creek.





5: EXISTING CONDITIONS



CENTRAL WILLIAMSON CREEK PROVIDES A PEACEFUL PLACE FOR PEOPLE TO CONNECT WITH NATURE.

COMMUNITY CONTEXT

Demographics

The Central Williamson Creek area is surrounded by about 11,000 residents, mostly living in single-family homes. This is a diverse community both racially and economically. Fifty-one percent of residents are non-white, with 45% of that group identifying as Hispanic/Latinx. Forty-five percent of the neighborhood is low-income and 19% is middle income.¹ This area is considered to be socioeconomically vulnerable, with high levels of linguistic isolation and refugees.

Community Health

According to the Healthy Parks Plan for Travis, Bastrop, and Caldwell Counties, **this neighborhood has high rates of adult heart disease, high cholesterol, poor mental health, and prevalence of stroke.** These poor health outcomes can be aggravated and compounded by other demographic factors, including the area's high socioeconomic vulnerability. **These are important considerations, as parks are critical public health assets that offer free opportunities to be active.** Parks and green space can ease depression and anxiety by providing areas to relax and connect with friends and family. They also cool the surrounding environment and filter out air and water pollutants that can harm health.

1. Low-income is defined as households whose ratio of household income to poverty level was less than 2, calculated from the Census Bureau's American Community Survey.

Prior Engagement

The Central Williamson Creek Vision Plan expands upon a previous community engagement process that began in 2019 through a collaboration between neighborhood community members, Public Green & Wild, The Nature Conservancy, Community Powered Workshop, and the National Parks Service. Engagement efforts were focused in the Middle Williamson Creek buyout area between Union Pacific Railroad and S. 1st Street. The focus area includes the buyout neighborhoods of Meadow Creek Drive and Radham Circle. The engagement process included four community events as part of a series called *Explore! Williamson Creek*. Three of these events were "Creek Stomps," which involved a short overview on the creek's ecology and hydrology, a guided community hike, and an opportunity for community feedback. The final event invited those who were unable or uninterested in exploring the creek to attend a more traditional focus group format to garner feedback. In addition to these events, the Watershed Protection Department conducted two community feedback surveys at the Richmond Tributary Buyout Area and at Meadow Creek. These surveys were intended to provide feedback to the Watershed Protection Department on how they are currently managing buyout land and how they may manage it in the future to align with community desires. In 2020, the Watershed Protection Department plans on conducting a survey of the Heartwood Buyout area.

Milk Snail found along the Greenbelt
Photo: Anna Pittala

Prior Engagement Outcomes

Many themes emerged from the Explore! Williamson Creek focus group, creek stomps, and the Richmond Tributary survey from Watershed Protection Department.

Explore Williamson Creek!

Strengths

Nature and Wildlife

- Natural beauty of the creek
- Escape from the city
- Sense of discovery and joy

Recreation

- Place to hike or walk dogs
- Chance to connect with nature
- Opportunities to exercise

Challenges

People experiencing homelessness

Land Management Strategies

- Dislike for unmanaged lots
- Desire for mowing so areas are more aesthetically pleasing

Opportunities

Creek Trail

- Trails that improve connectivity

Community Spaces

- Areas with picnic areas, swings, and amenities

Neighborhood Stewardship

- Community stewardship events

Watershed Protection Dept.

Richmond Tributary Survey

Current Use

- Area is most commonly used for plant and wildlife observation
- 37% of those surveyed did not use buyout areas for recreation.

Amenities

- 65% of survey participants are in favor of adding community amenities, volunteering, and management practices that benefit water quality and habitat for pollinators.

Buyout Landscape Management

- Half of those surveyed are in favor of low-growing meadows to provide clear lines of sight.
- A majority of participants are in favor of mowing areas near the front of lots and allowing native vegetation to grow near the back of lots by the creek.



Map and schedule of Explore! Williamson Creek Events.

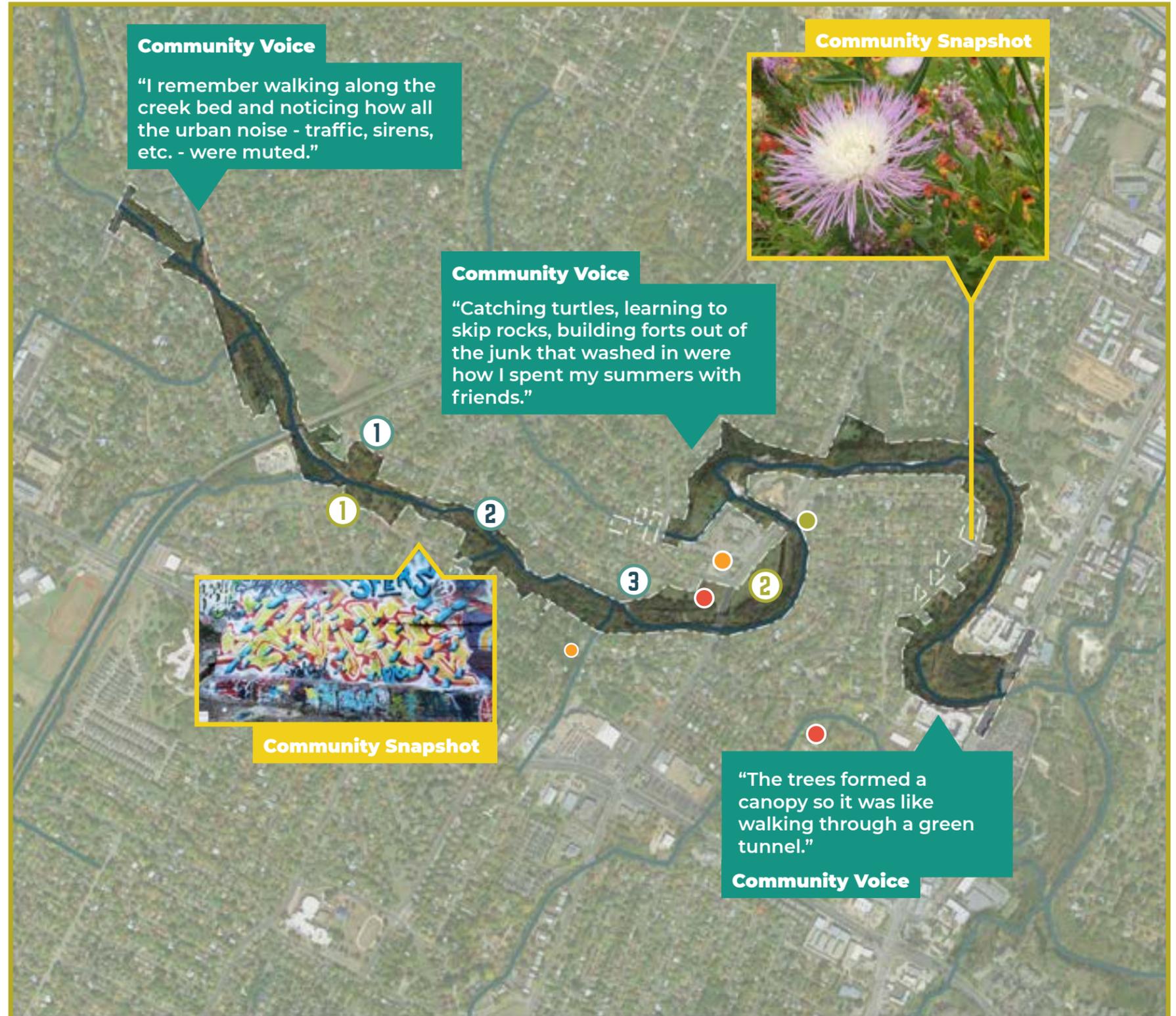
Community Voices

The planning and design of the Central Williamson Creek Greenway emerges out of a close collaboration with community members and builds upon the previous engagement efforts of *Explore! Williamson Creek*. See Chapter 4 for a more detailed overview of the community engagement process for this vision document.

- ① **Challenge 1:**
Balance conflicting community desires for maintained vs natural open spaces.
- ② **Challenge 2:**
Balance access with people experiencing homelessness.
- ① **Opportunity 1:**
Trailhead and Community Gathering Space
- ② **Opportunity 2:**
Continuous trail along Central Williamson Creek.
- ③ **Opportunity 3:**
Gathering space with community gardens and food forest.

Legend

- Community Garden
- School
- Fresh for Less Site



COMMUNITY



Green Heron
Photo: David Reagan, Flickr

CENTRAL WILLIAMSON CREEK IS A GREEN RIBBON OF BIODIVERSITY THROUGH SOUTH AUSTIN.

LOCAL ECOLOGY

Williamson Creek stretches across the Environmental Protection Agency's Level 3 Edwards Plateau and Blackland Prairie Ecological Regions. The Edwards Plateau ecoregion is characterized by thin limestone or granite soils and the Blackland Prairie region has thick clay soils. Each of these characteristic soils host different types of native plants, thus the **ecotone² between these two ecoregions produce conditions that are very biodiverse.**

These open spaces surrounding the creek are rich with biodiversity due to the alluvial sediments and availability of water, which create favorable conditions for a broad diversity of plant and wildlife species. The past few years have seen a community effort to document local biodiversity in Williamson Creek using iNaturalist, a citizen science phone app that identifies and records plant and animal sightings. Both native and invasive plants have been documented along the creek. Citizen scientists have recorded more than 305 nature observations of more than 171 species within the Central Williamson Creek Greenway. While the most observed wildlife species by citizen scientists include common species such as raccoons, woodpeckers, and fox squirrels, many sightings record less common species such as Barred Owl (*Strix varia*), Green Heron (*Butorides virescens*), and American Basketflower (*Centaurea americana*).

². Ecotone - A region of transition between two biological communities.



Hayhurst's Scallopwing and Buttonbush



The wildflowers along Williamson Creek provide habitat and forage for urban wildlife.

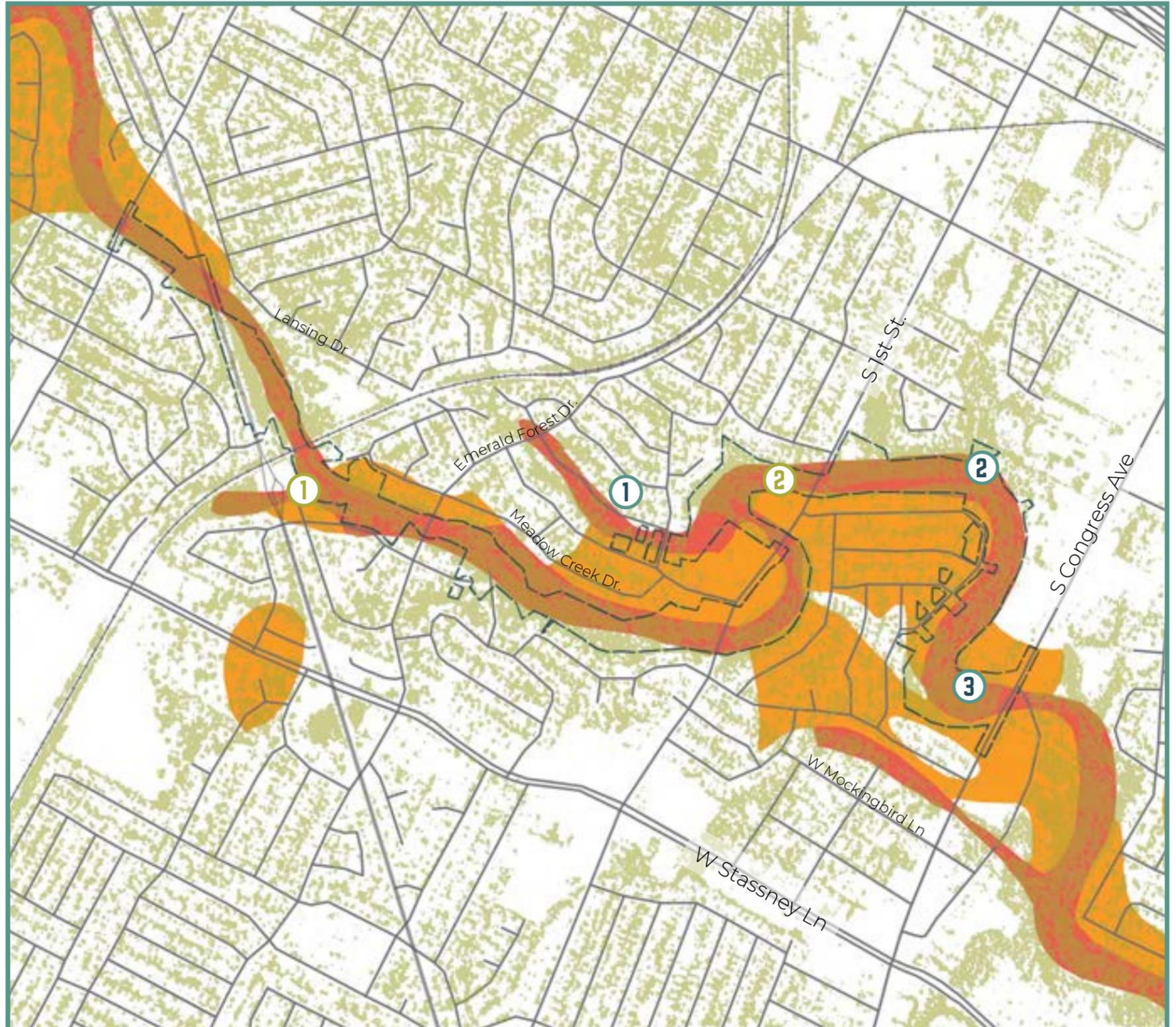


Roseate Skimmer Dragonfly

Vegetation

Vegetation along Williamson Creek and in its floodplain is dominated by large areas of woody vegetation interspersed with intermittently mowed wildflower meadows in buyout parcels owned by the Watershed Protection Department. Patches of fringe wetlands, especially near seeps and springs, are scattered throughout floodplain. Many areas along the creek are dominated by invasive woody and herbaceous vegetation, most notably stands of Glossy Privet, Giant Reed, and Chinese Tallow. Areas dominated by invasive species should become high priority areas for invasive species management per the City of Austin Invasive Species Management Plan published in 2012.

- 1 Challenge 1:**
 Balance sensitive ecology with community access and recreation.
- 2 Challenge 2:**
 Balance invasive species removal with erosion control.
- 1 Opportunity 1:**
 Educational wildflower meadow pocket parks at buyout areas.
- 2 Opportunity 2:**
 Context-sensitive ecological restoration and habitat creation.
- 3 Opportunity 3:**
 Invasive species management of Ligustrum and invasive grasses.



Data sources: City of Austin, iNaturalist, USGS

TREE CANOPY AND SOILS

Legend

- Creekbed soils
- Alluvial soils
- Tree Canopy
- Project Boundary

iNaturalist

iNaturalist is a popular citizen-science app that allows users to document and share plant and animal observations. These observations are geolocated and provide researchers with valuable information about the spatial distribution and ecology of plant and animal species.

Residents and community members of Williamson Creek have used iNaturalist to document the creek's biodiversity through both individual initiative and organized community "bio-blitzes." The map on the right shows the results of these efforts.

Wildlife

The plant and habitat diversity in Williamson Creek allow for a broad range of fish, amphibian, bird, and mammal species to thrive. iNaturalist and previous field surveys conducted by The Nature Conservancy included spiny softshell turtle, green heron, great blue heron, cedar waxwings, and chimney swift sightings. In September 2018, two wildlife cameras were installed in the Central Williamson Creek Greenway with the Austin Wildlife Watch project and Austin park rangers. These cameras documented deer, raccoons, opossums, and coyotes.

Legend

- iNaturalist Wildflower Observation
- iNaturalist Plant Observation
- iNaturalist Wildlife Observation
- Creeks
- Project Boundary



Data sources: City of Austin, iNaturalist, USGS

INATURALIST OBSERVATIONS

Vegetative Inventory

This map was compiled by a series of field surveys completed by The Nature Conservancy intended to document existing vegetation. This inventory will be used to develop a site plan that protects healthy, native vegetation and removes and manages invasive species. In future plan development, patches of native plants and fringe wetlands along the creek may be designated as Vegetation and Soil Protection Zones (VSPZs) as part of the SITES Certification process.

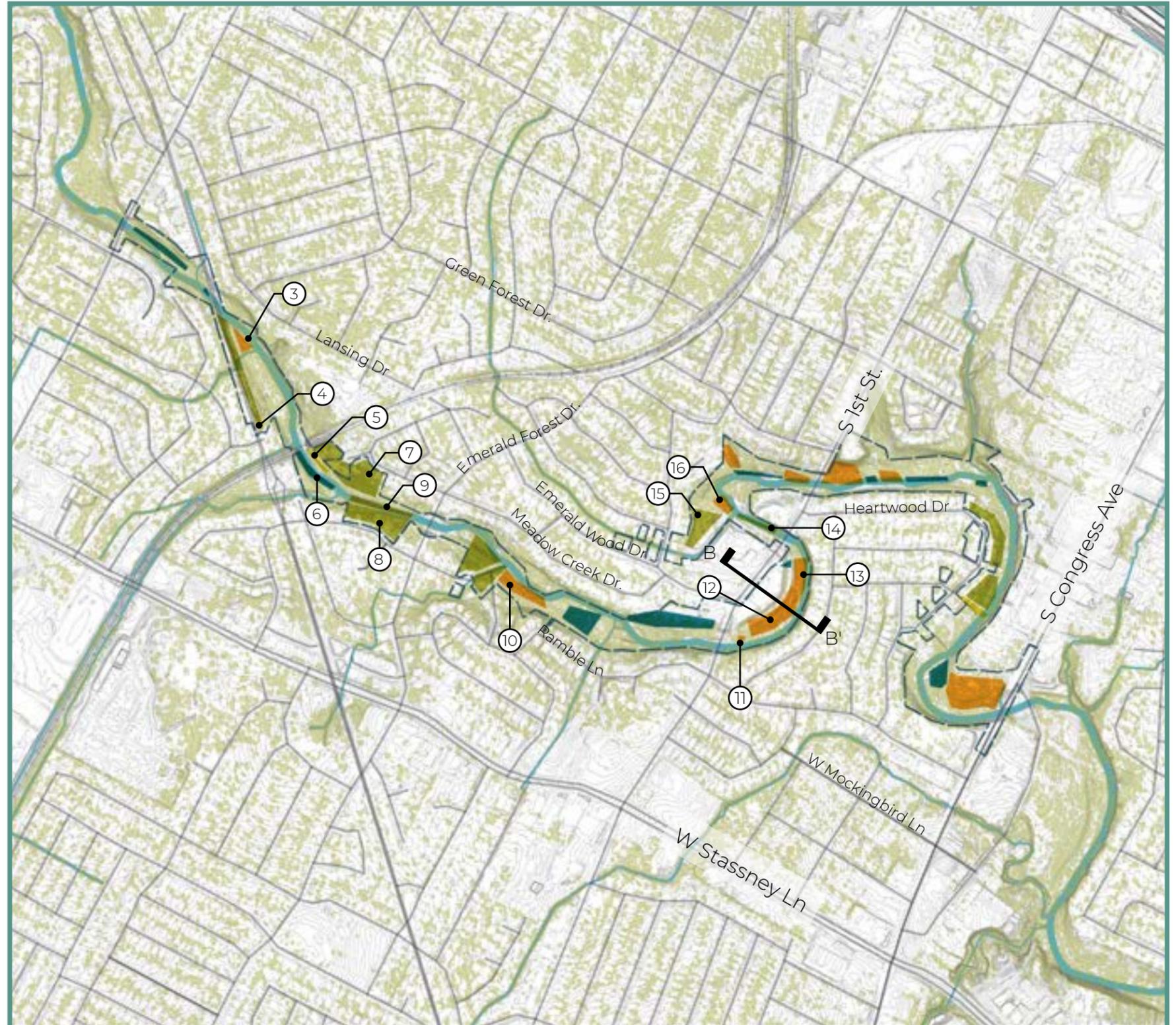


Native wetland fringe along Williamson Creek.

Legend

- Invasive
- Mowed
- Mixed invasive/native
- Native
- Tree Canopy
- Creeks
- Project Boundary

Patch	Description
1	Ash and Hackberry predominate/canopy. Pecans, American Elm, Boxelder dispersed. Some Lilu, Nandina
2	Dense giant ragweed, under power lines
3	Ligustrum, canopy, evidence of some management activities
4	Johnsongrass/Forb, Juvenile Woody (hackberry, cedar elm, pecan) under powerlines
5	Bamboo thicket, some Oaks
6	Dense red oaks along bank
7	Buyout area mowed, large cedar elms, a few pecans, a few live oaks
8	Buyout area mowed, some large DBH trees
9	Ligustrum along bank, some cedar elms
10	Ligustrum, canopy and understory. Towards east, more oaks and cedar elms mixed into canopy
11	Bamboo cluster
12	Grow zone east of trail; ligustrum understory, few cypress and Viburnum near bank. Few large pecans
13	Numerous young cedar elms
14	Yard for apartments, large native trees as partial canopy along bank
15	Detention Pond adjacent Richmond Trib, some forbs/wildflowers
16	Mostly Ligustrum NW of Richmond trib, heritage pecan tree, a few hackberries
	Unnumbered parcels to be classified



Data sources: City of Austin, The Nature Conservancy, USGS

Section B-B' on pp. 24-25

ECOLOGY AND BIODIVERSITY

Common Native Herbaceous Plants

- American Water Willow (*Justica americana*)
- Western Ragweed (*Ambrosia psilostachya**)
- Flame Acanthus (*Anisacanthus quadrifidus var. wrightii*)
- Illinois Bundleflower (*Desmanthus illinoensis*)
- Inland Seaoats (*Chasmanthium latifolium*)
- Plains Coreopsis (*Coreopsis tinctoria*)
- Pigeonberry (*Rivina humilis*)
- Purple Threeawn (*Aristida purpurea*)
- Sideoats Grama (*Bouteloua curtipendula var. curtipendula*)
- Silver Bluestem (*Bothriochloa laguroides ssp. torreyana*)

Common Native Tree Canopy

- American Elm (*Ulmus americana*)
- Ashe Juniper (*Juniperus ashei*)
- Black Willow (*Salix nigra*)
- Box Elder (*Acer negundo*)
- Cedar Elm (*Ulmus crassifolia*)
- Hackberry (*Celtis laevigata*)
- Live Oak (*Quercus fusiformis*)
- Pecan (*Carya illinoensis*)
- Texas Red Oak (*Quercus texana*)

Common Invasive Herbaceous Plants

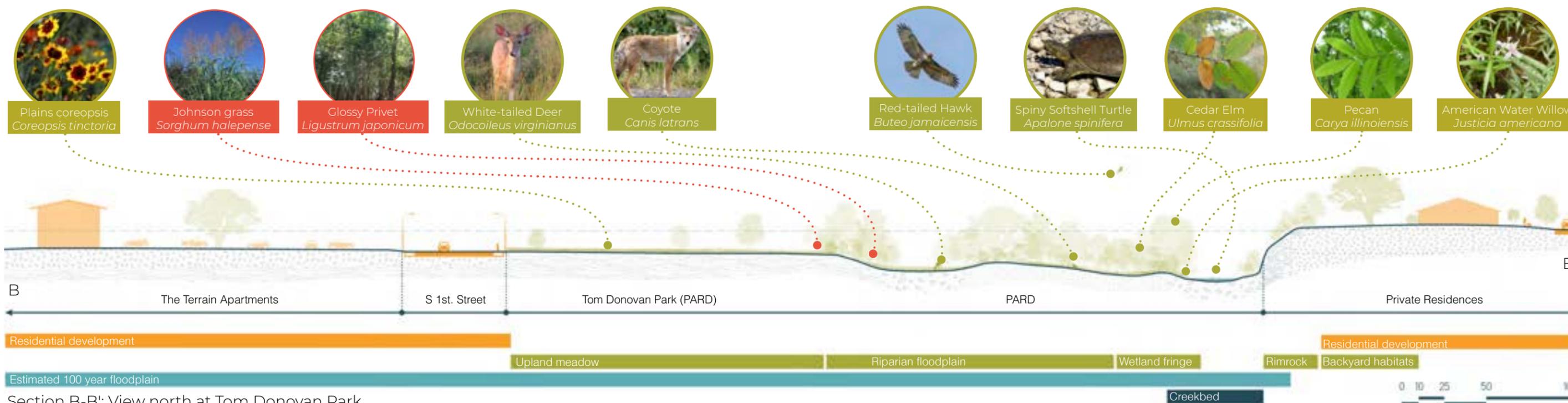
- Bamboo (*Phyllostachys aurea*)
- Barnyardgrass (*Echinochloa crus-galli*)
- Bermuda Grass (*Cynodon dactylon*)
- Garden Cornflower (*Centaurea cyanus*)
- Giant Reed (*Arundo donax*)
- Johnsongrass (*Sorghum halepense*)
- Perennial Ryegrass (*Lolium perenne*)
- Prickly Lettuce (*Lactuca serriola*)
- Rescuegrass (*Bromus catharticus*)
- Silky Bluestem (*Dichanthium sericeum*)
- Tropical Lantana (*Lantana camara*)

Common Invasive Tree Canopy

- Chinaberry (*Melia azedarach*)
- Chinese Privet (*Ligustrum senense*)
- Chinese Tallow (*Sapium sebiferum*)
- Glossy Privet (*Ligustrum japonicum*)
- Nandina/heavenly bamboo (*Nandina domestica*)
- Tree of Heaven (*Ailanthus altissima*)

Note - Invasive species are defined by the National Invasive Species Council as "nonnative (or alien) to the ecosystem under consideration and whose introduction causes or is likely to cause economic or environmental harm or harm to human health." However, even native species may be aggressive and outcompete other species, causing ecological harm.

Native plant species with an * next to their names indicates that these plants are aggressive and may harm biodiversity in the Williamson Creek ecosystem.



Section B-B': View north at Tom Donovan Park



CENTRAL WILLIAMSON CREEK IS EASY TO GET TO BY BUS, BIKE, AND ON FOOT.

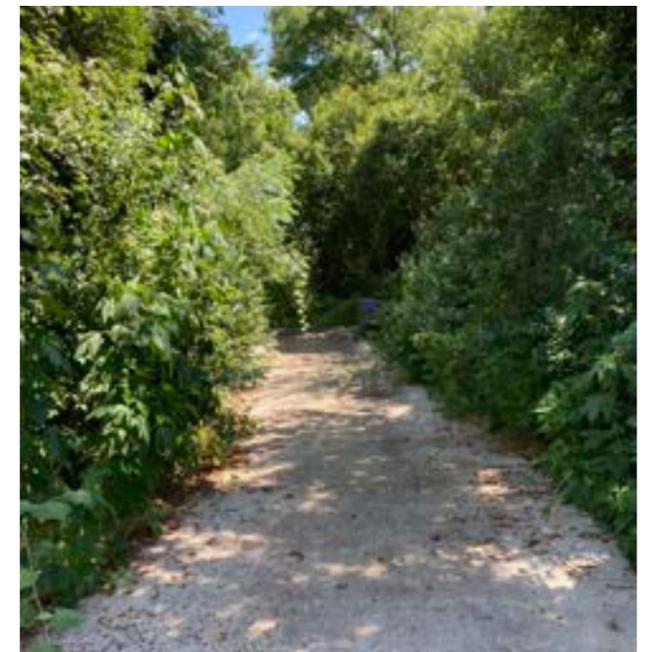
GREENWAY ACCESS

Neighborhood Access

The neighborhoods along Central Williamson Creek have a robust sidewalk network, creating good pedestrian connectivity for the adjoining neighborhoods. Emerald Forest Drive provides a dedicated bike lane for traveling in the north-south direction, and Stassney Lane provides a bike lane for travelling in the east-west direction. In the future, the CAMPO 2035 plan hopes to augment S. Congress Avenue S. 1st Street, and Menchaca Road to become safe, designated “bike corridors.” In the meantime, the surrounding neighborhood roads of mostly low-traffic residential homes offer a safe alternative to high-traffic thoroughfares like S. Congress Avenue and Menchaca Road. The City of Austin Urban Trail Network is actively working on a plan to develop the abandoned Bergstrom Spur Right-of-Way as an urban trail. The 2014 City of Austin Urban Trails Plan also proposes the creation of additional car-free regional connections via the Williamson Creek Greenway and the Union Pacific right-of-way. Central Williamson Creek is served by the 1, 3, 10, 311, and 801 bus.

Creek Access

Access to the creek itself can be a challenge. Many informal trails and entrances have been created by community members. However, they occur sporadically through the greenway and do not provide a connected path along the entirety of the Central Williamson Creek Greenway. Access to these informal trails are frequently found at the mowed, grassy buyout parcels and under the bridges where S. 1st Street, S. Congress Avenue, and Menchaca Road cross Williamson Creek.



Creek entrance from the north side of S. Congress Avenue



South 1st Street is a common access point to Williamson Creek.

1 Challenge 1:
Steep slopes at potential access points at major road crossings.

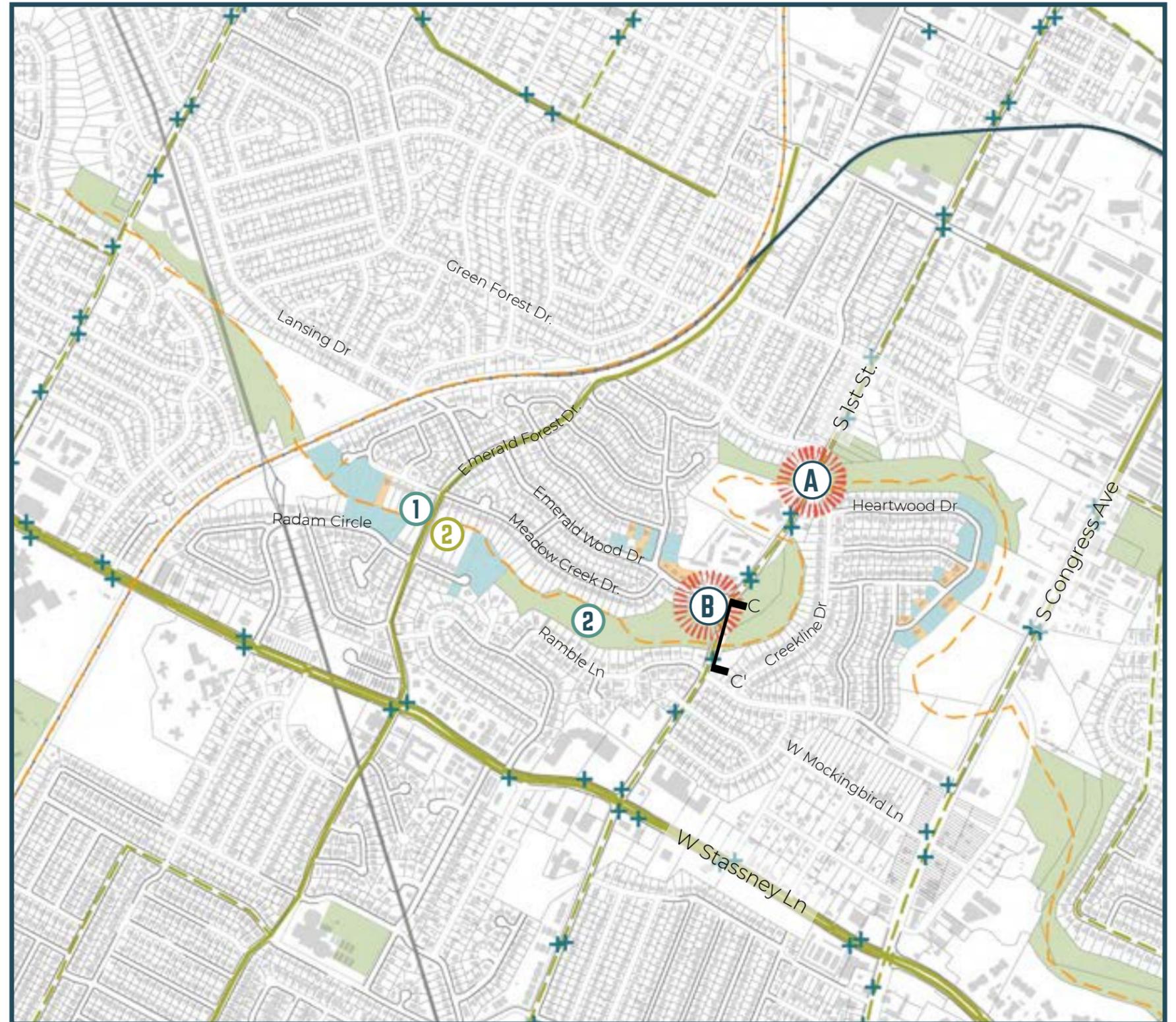
2 Challenge 2:
Discontinuous publicly owned property along the creek.



This major entryway along S. 1st Street is adjacent to a large, grassy park and the Emerald Wood Community Garden.

1 Opportunity 1:
Easements along private property to allow access.

2 Opportunity 2:
Continuous, accessible trail along entirety of Central Williamson Creek.



Data sources: City of Austin, Google

Section C-C' on pp. 34-35

CIRCULATION AND ACCESS

Legend

- Community-Identified Access Points
- CMTA Bus Stops
- Bicycle Lanes
- CAMPO 2035 Bicycle Corridors
- COA Urban Trails (2014 Plan)
- Bergstrom Spur (In Progress)
- Sidewalks
- Floodplain Buyout Lots (Owned by Watershed Protection Dept.)
- Floodplain Buyout Lots (Eligible)
- COA Parks (Owned by Parks and Recreation Dept.)

Slope

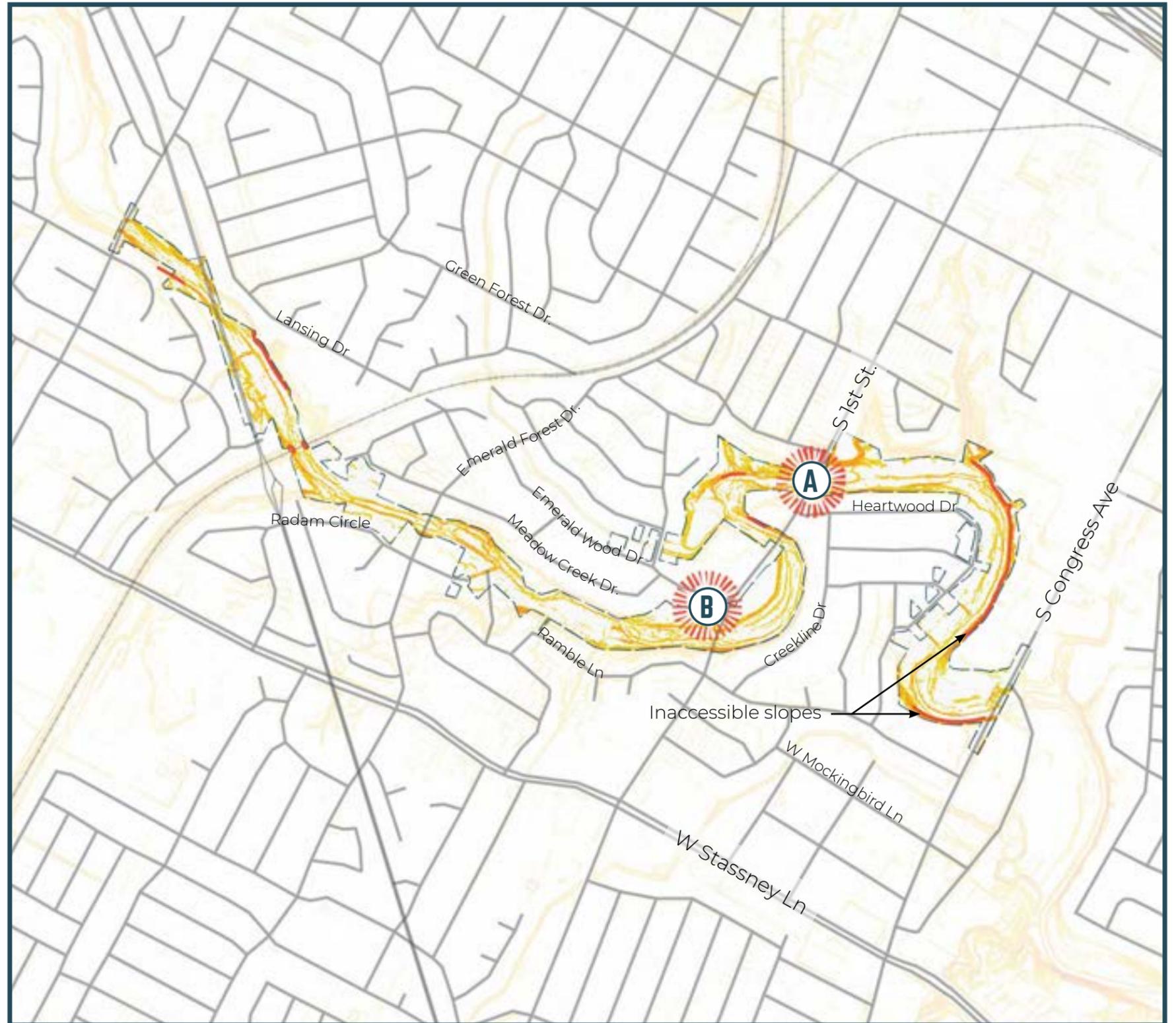
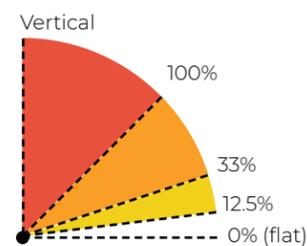
Access to Central Williamson Creek is hindered by the area's rugged topography. In some areas, the creek's erosive force has eaten into its banks, exposing steep rock faces dozens of feet tall. Erosion's effects are less dramatic in other places, but still make it difficult to experience the creek. This map shows the locations of these steep areas, illustrating their relationship to the adjacent street grid and the limitations they place on access to Williamson Creek.



Steep conditions are often due to limestone outcroppings along the creek.

Legend

-  Community-Identified Access Points
-  Moderate slopes (12.5 - 33.3%)
-  Steep slopes (33.3% - 100%)
-  Extremely steep slopes (>100%)

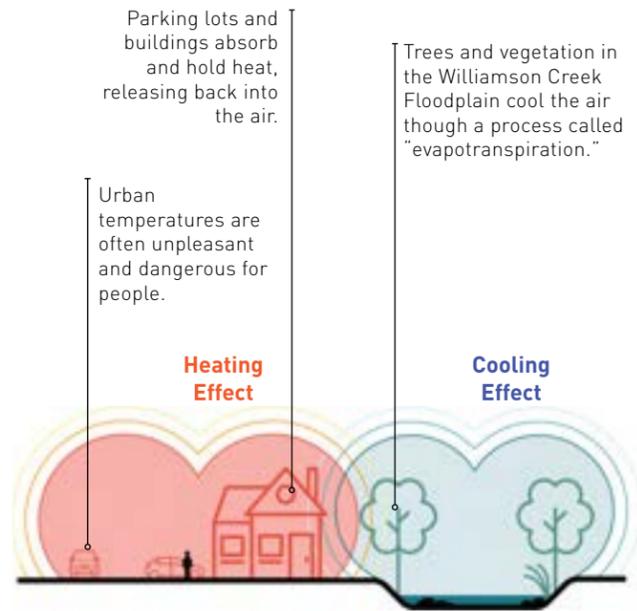


Data sources: City of Austin, Google

SLOPE

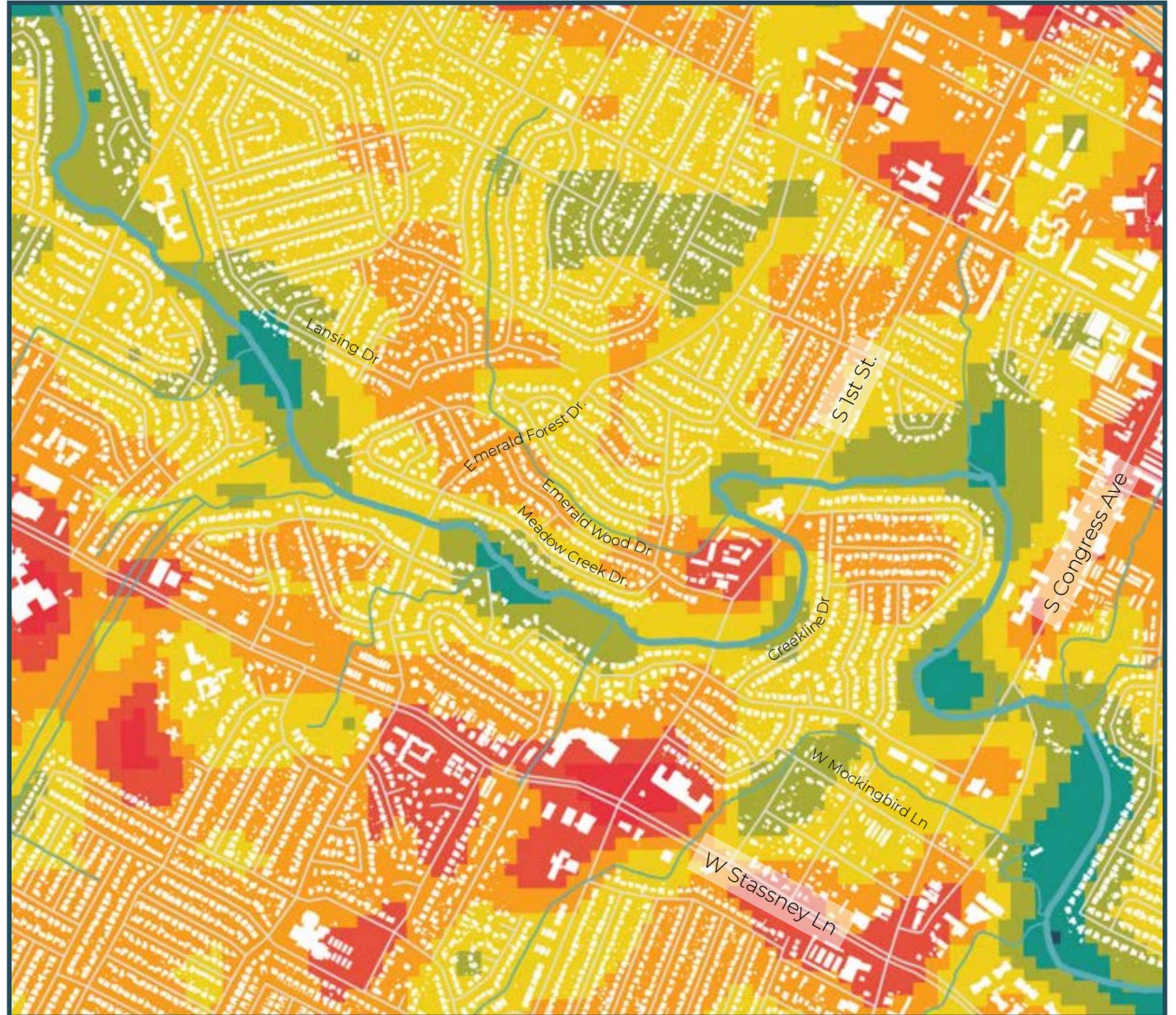
Urban Heat

In the summer and early fall, walking and biking on Austin's hot streets is uncomfortable and puts at-risk groups including the very young, the elderly, and those with pre-existing conditions at risk for heat-related illness. The trees and vegetation along Central Williamson Creek creates a cool ribbon through a hot city. A future hike and bike trail along the creek would provide a safer and more comfortable transportation or exercise route than paved neighborhood streets and sidewalks.



Legend

	84°F - 86°F		Building Footprint
	86°F - 88°F		Roads
	88°F - 90°F		Creeks
	90°F - 92°F		
	92°F - 94°F		
	94°F - 96°F		
	96°F - 98°F		



Data sources: City of Austin, LANDSAT

URBAN HEAT ISLANDS

Trailheads

While there are currently no formal trailheads providing access to the Central Williamson Creek Greenway, many community members noted accessing the creek at several bridges that cross the creek. The section below illustrates where the creek flows underneath S. 1st Street bridge. This area presents an opportunity to provide more formalized access to the creek in the future.

Previous Planning Efforts

Austin Urban Trails Plan (2014): This plan identifies an opportunity for a trail along the Williamson Creek for three miles from Onion Creek to South Menchaca Road. It rates this trail as a Tier II priority, due to its proximity to major employers, public and private schools, access to transit, access to public places, and potential for completing gaps in existing on-street sidewalks or bike facilities.

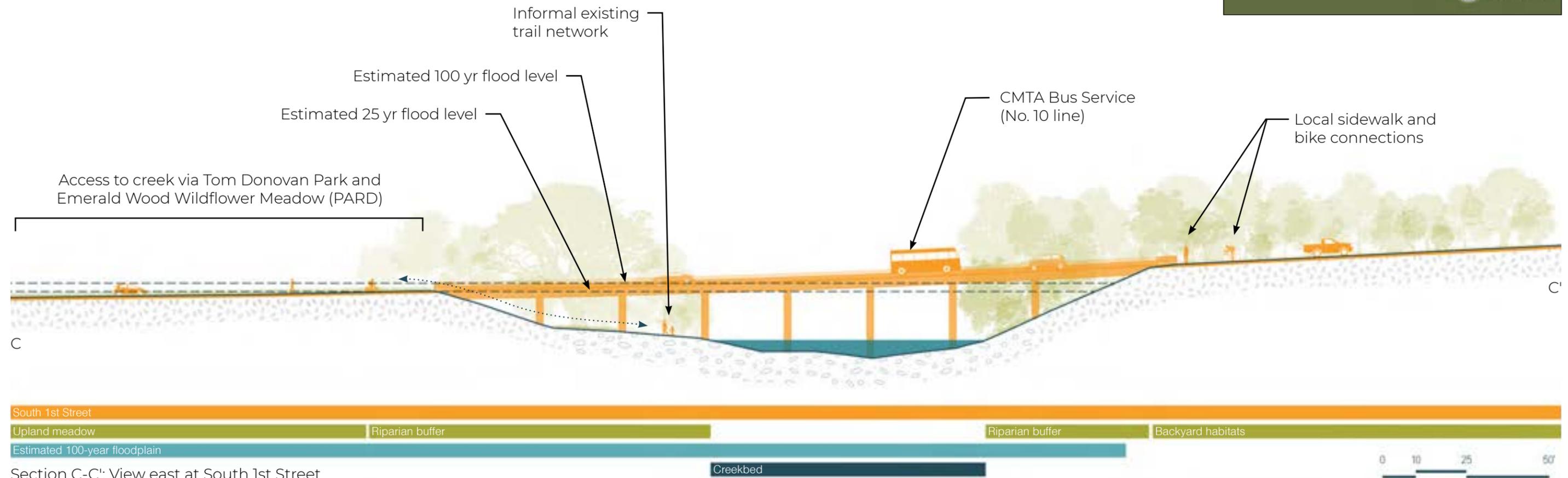
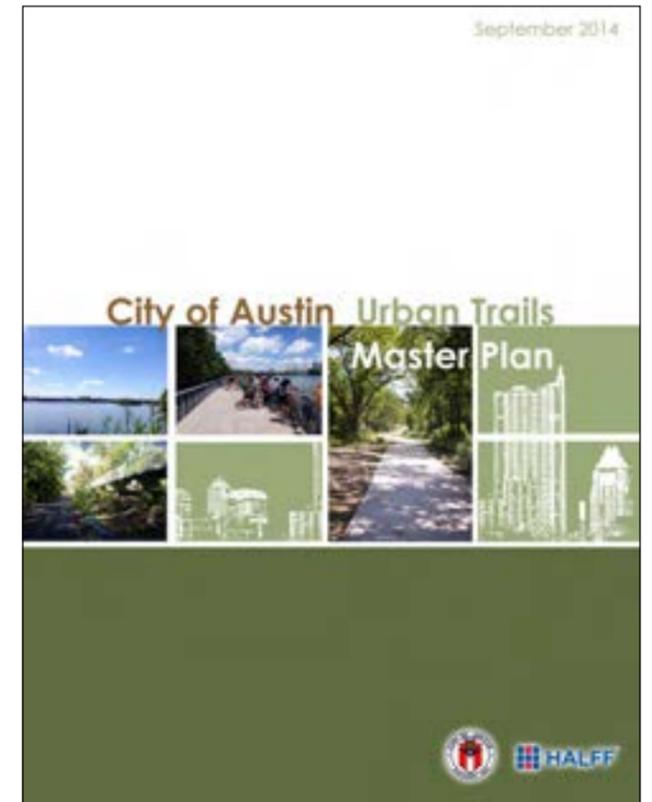




Photo: Austin Parks Foundation

CENTRAL WILLIAMSON CREEK IS TRANSFORMED WHEN IT RAINS.

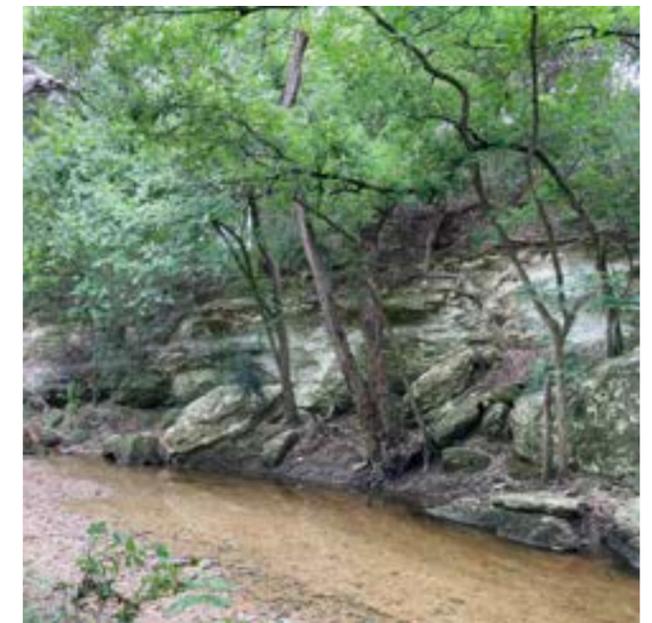
HYDROLOGY

Williamson Creek Watershed

Beyond the Greenway Vision Plan area, Williamson Creek stretches almost 19 miles across South Austin from its headwaters just west of the intersection of Highway 71 and Covered Bridge Drive to where it empties into Onion Creek just east of I-35 at McKinney Falls State Park. This water then flows from Onion Creek into the Colorado River, where it travels across east Texas and empties into the Matagorda Bay and the Gulf of Mexico. The Williamson Creek Watershed, which contains Williamson Creek and its tributaries, covers 30.25 square miles. Thirty percent of the Watershed's land falls within the Edwards Aquifer Recharge Zone, land that is regulated by development code to ensure the continued function and quality of the Edwards Aquifer, a critical underground water source for central Texas. The Central Williamson Creek area drains 72.5% of the Williamson Creek Watershed (about 22 square miles). About 34% of the Williamson Creek Watershed is covered by impervious surfaces. Land use within the watershed is comprised by 41% single family homes, 9% apartments and condos, and 9% greenbelts. Tree canopy covers 38% of the watershed, and this high number is likely due to high residential land use and greenbelts within the watershed. A high percentage of trees surrounding the greenbelt may help alleviate some flooding.



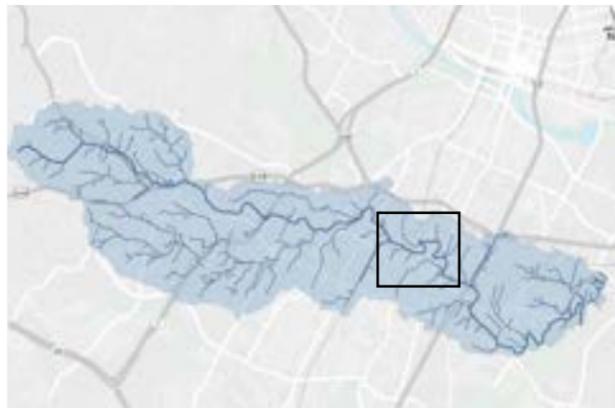
Between rainfalls, Williamson Creek almost completely dries out, leaving occasional standing pools of water.



Many seeps and springs arise from the rocky outcropping that runs along both banks of Williamson Creek.

Flooding

Austin averages about 34 inches of rainfall per year, with May, June, and October being the wettest months of the year. Rainfall tends to come in intense, short storm events that cause flash floods. Severe rain events can cause dramatic changes in the volume of water flowing through Central Williamson Creek, transforming the space from what is mostly a dry, rocky creekbed into a rapid stream of water. While flooding is an important part of the creek system and provides water flows for plant and animal species, these extreme rainfall patterns pose a threat to those living along Williamson Creek. (Continued on next page.)

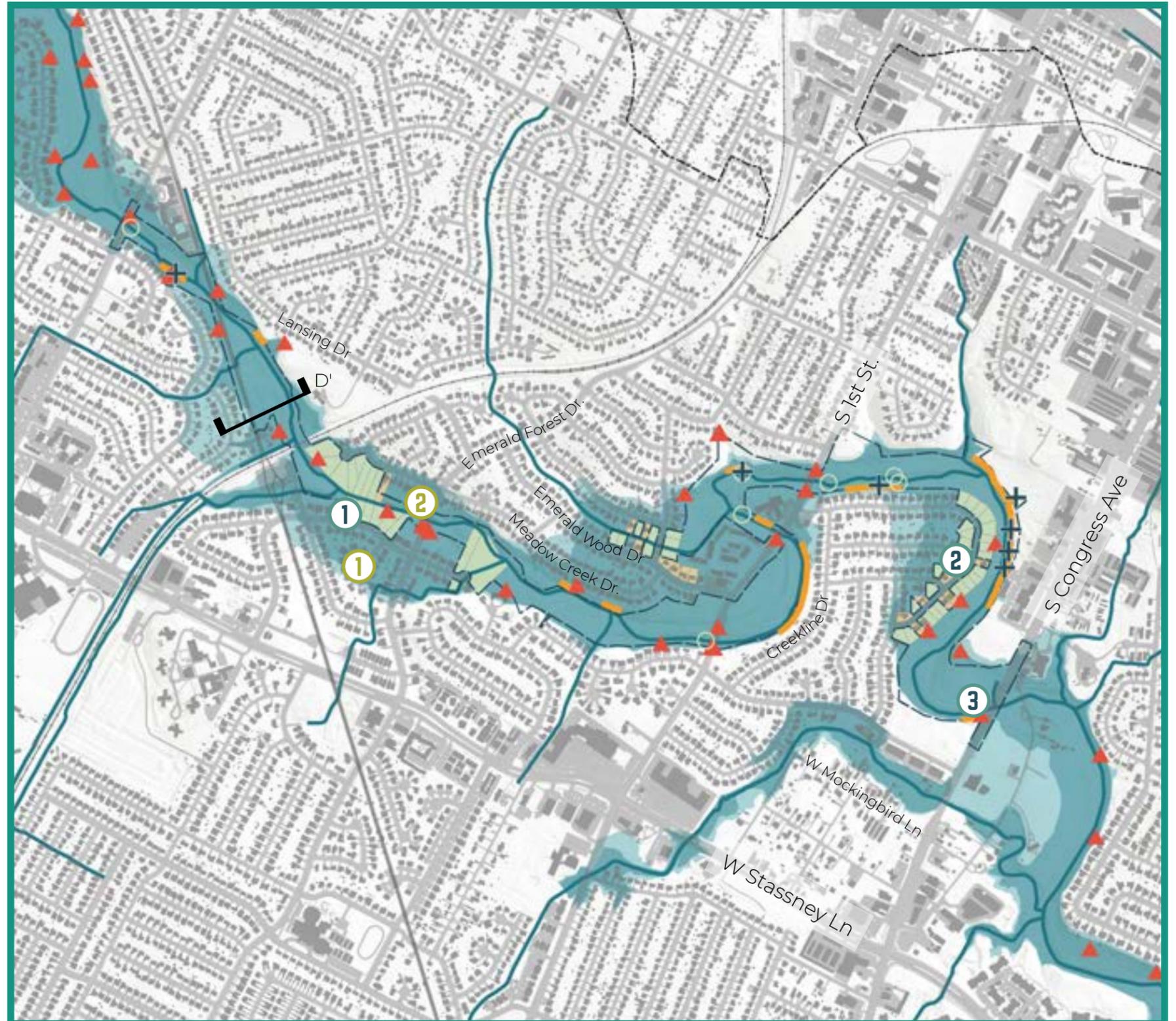


- Williamson Creek
- Tributary
- Williamson Creek Watershed

Legend

- Buyout Lots
- Estimated 25-year floodplain
- Estimated 100-year floodplain
- Creeks
- Rimrock
- + Seep/spring
- Wetland
- ▲ Stormwater Outfall
- Project Boundary
- - - Watershed Boundary
- Buildings
- Paved Surfaces

- ① **Challenge 1:**
Help mitigate flooding of homes.
- ② **Challenge 2:**
Balance trail and amenity placement with destructive flood events.
- ① **Opportunity 1:**
Green infrastructure and other floodwater storage opportunities.
- ② **Opportunity 2:**
Education around urban flooding and climate change.
- ③ **Opportunity 3:**
Improve stormwater outfalls to better conserve creek water quality.



Data sources: City of Austin, FEMA, USGS

HYDROLOGY

This flood risk is exacerbated by climate change and land development in the Williamson Creek watershed, making Central Williamson Creek a highly flood-prone area. Major floods in 1998, 2001, 2013, and 2015 prompted a buyout program that has seen 51 properties purchased by the City, demolished, and converted into open space owned by the Watershed Protection Department. This Williamson Creek Flood Risk Reduction program helps to mitigate the risk of damage to property by removing houses that have experienced repeated flooding out of the floodplain and maintaining these areas as floodable open spaces.

Water Quality

The 2017 Watershed Protection Department Integrity Index report found that the Watershed has a very good overall condition for aquatic life, water quality, contact and non-contact recreation, and habitat and sediment quality. However, there are many stormwater outfalls that empty into Williamson Creek, bringing stormwater runoff with pollutants from roads, parking lots, and other impervious surfaces into Williamson Creek. These common pollutants may include pesticides, fertilizers, construction debris, used car oil, and trash.

Critical Environmental Features

The City of Austin defines Critical Environmental Features as natural features that protect and enhance water quality. As of June 2020, The Williamson Creek Watershed has twenty-nine known springs and seeps, fifteen rimrock/bluff locations, and 55 wetland sites. These three images of rimrock, a seep, and a wetland were all found along Central Williamson Creek.

Rimrock



Rimrock and bluffs are outcroppings of rock that exceed a 60% slope, have a 5 foot rise, and a 40 foot length.

Seep

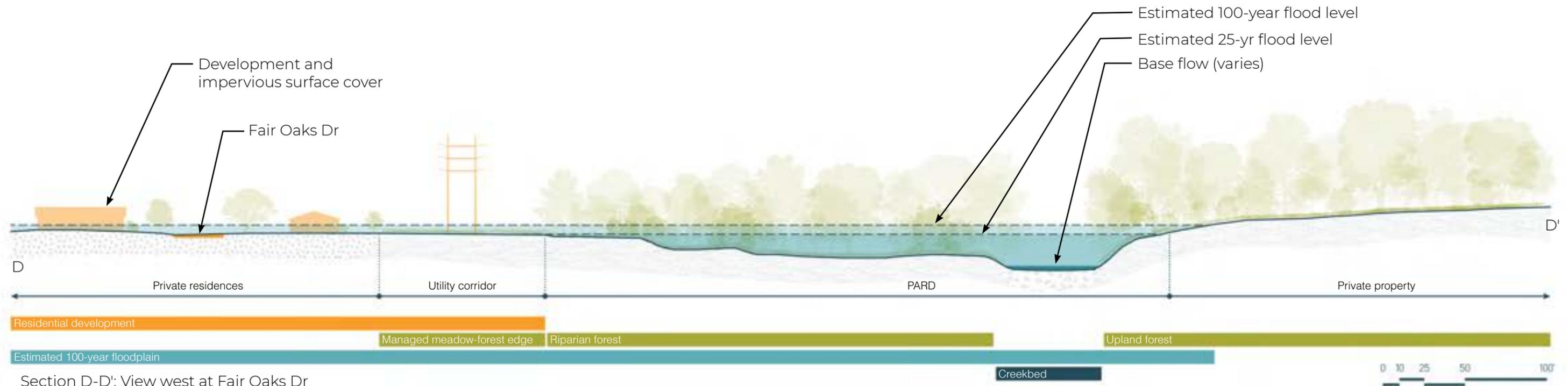


Springs and seeps are locations where ground water reaches the surface and begins to flow overland.

Wetland



Wetlands along Williamson Creek are identified by the type of vegetation found within them.



6: IMPLEMENTATION

IMPLEMENTATION STREAM

The Vision Plan encompasses three tiers of project effort and feasibility. Some ideas can have different levels of effort, and therefore may appear in more than one tier. All ideas, once implemented, will have perpetual maintenance requirements following their completion. The “Tiers” are as follows:

Tier 1:

Community-and non-profit-led efforts that are relatively low-cost and easy to install without technical equipment, machinery, or skills.

Tier 2:

Projects led by a city department, most likely the Parks and Recreation Department or Watershed Protection Department, with community volunteer and engagement opportunities.

Tier 3:

Large-scale city-led projects that may be implemented in the long-term by city staff or contractors.

Maintenance

All projects, no matter the size, will require maintenance for ensured community and environmental health and safety. Similar to implementation, these have levels of engagement and operations. As City-owned public land, community-led efforts must be approved by the property owner.

Tier 1 Projects

Community -led collaborations with City of Austin landowners Watershed Protection, and the Parks and Recreation Department. They can involve work and support with non-profits such as Austin Parks Foundation and Keep Austin Beautiful. All projects must have prior approval by City of Austin property owners.

Toolkit Items Include:

- Nature Trails
- Creek and Woodland Restoration
- Fitness Programming
- Food Forest
- Community Gardens
- Mountain Bike Trails
- Invasive Species Removal
- Labyrinth
- Music Grove
- Seating
- Pollinator Nesting Boxes

Maintenance Considerations:

For Tier 1 community and city-partnered projects, a maintenance agreement must be developed and approved by the City of Austin.

Tier 2 Projects

These are City of Austin landowner projects of \$50,000 dollars or less. They are part of the missions and plans of WPD or PARD, but require advocacy from the community. The community may also be involved for portions of these projects such as planting days.

Toolkit Items Include:

- Nature Play
- Green Infrastructure
- Wildflower Meadows
- Community Message Board
- Bonded Wood Mulch Trail
- BYO Hammock Grove

Maintenance Considerations:

Tier 2 projects should be maintained per City code and operations; however, the City may partner with non-profits and community groups to perform maintenance.

Tier 3 Projects

Projects that require long-term study and funding by City of Austin landowners that will total more than \$50,000 dollars and require major construction. Funds and grants may be raised on behalf of the community to implement these projects.. They will have required community engagement on their further development and route to implementation.

Toolkit Items Include:

- Land Acquisition and Easements
- On-street Bicycle Lanes
- Sidewalk-Shared Use Path
- Green Infrastructure (Large Scale)

Maintenance Considerations:

Tier 2 projects should be maintained per City code and operations; however, the City may partner with non-profits and community groups to perform maintenance.

IMPLEMENTATION STREAM

OPINION OF PROBABLE COST BY AREA

AREA 1

TIER 1 - 15,000-30,000*
TIER 2 - 206,000
TIER 3 - 320,000

AREA 2

TIER 1 - 15,000-30,000*
TIER 2 - 175,000
TIER 3 - 340,000

AREA 3

TIER 1 - 15,000-42,000*
TIER 2 - 150,000
TIER 3 - 740,000

Meadow Creek Trailhead

Orland Trailhead

Heartwood Community Garden

Emerald Wood Community Garden

ONGOING CITY OF AUSTIN PROJECTS

There are several projects in an array of planning and implementation stages adjacent to the Central Williamson Creek Greenway.

Flood Plain Buyout Cleanups

The Watershed Protection Department has several projects underway to clean-up floodplain buyout lots. Such improvements include using split-rail fences to denote property boundaries, and removal of driveway concrete and debris. Buyouts are likely to continue, so additional land may be acquired and require community input on their maintenance and public use.

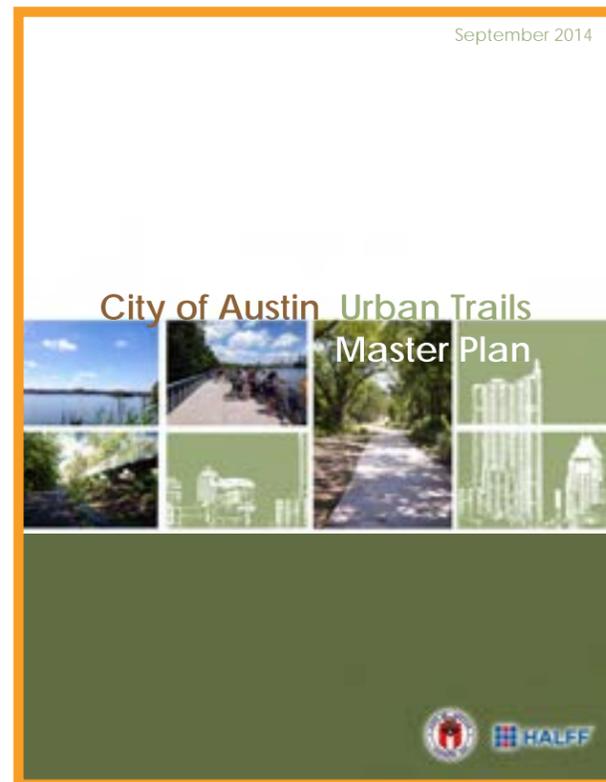
2014 Urban Trails Master Plan

The 2014 Urban Trails Master Plan identified Williamson Creek as a location for a Tier II trail. The proposed trail is a 12-foot wide concrete trail. The Urban Trails Master Plan is currently being updated and looking to assess which Tier II trails should be moved to Tier I.

During the community engagement process for Central Williamson Creek Greenway, community members expressed a strong desire for trails within the greenway to be natural trails. This was stated in community meetings and shown in the Creek Ideas Card voting. As such, the Central Williamson Creek Greenway Vision Plan shows primarily nature trails and mountain bike trails with small accessible loops at trailheads. For street biking and connectivity, the Vision Plan proposes a 'High Water Route'-- a series of bike lanes and shared-use paths out of the floodplain that would connect to existing and planned bicycle

and sidewalk networks. This would further support an Urban Trail if it moves forward at a later date. The 'High Water Route' could also serve as a framework for a streetside urban trail in the Central Williamson Creek Greenway area.

The next phase for a Tier I trail would be for the City of Austin to commission a Preliminary Engineering Report from a team of consultant licensed engineers and landscape architects. This phase also requires community engagement. The Vision Plan recommends that the Central Williamson Creek Greenway community leaders and working group to be included as stakeholders in this process.



Middle Williamson Creek Flood Risk Reduction - Engineering Feasibility Study Phase 2

The study reviews methods to reduce flood risk over an area of Williamson Creek between West Gate Blvd and Congress Avenue. Some options requiring construction include: flood walls, which would consist of wall segments protecting specific areas from flooding; channel modifications, which would require excavation at some locations along the creek in order to increase the flow capacity; construction of detention ponds; or a diversion, which would allow water spilling out of the creek to be diverted through underground pipes in order to bypass areas at risk of flooding. The above options are being considered individually or as a combination. Another option considered is voluntary buyouts of homes at risk of flooding. Each of the options is being evaluated for flood reduction effectiveness, cost, as well as environmental impacts. Social impacts will also be evaluated once community engagement is conducted, after the draft feasibility report is available. This community engagement is expected to take place in February or March 2021.

More collaboration with the community is needed so that the creek environment should be improved, conserved and remain natural in appearance.

IMPLEMENTATION BY IDEA

IDEA	 Pollinator Nesting Boxes	 Invasive Species Management
TIER 1	<p>Many plans for these boxes can be found online. Nest boxes consist of a house with a roof and an infill of material such as bamboo and twigs. The house, roof and post must be wood, sourced from a non-threatened tree species. For more information on materials, refer to the materials appendix. The infill may be constructed from materials found on the greenway- in particular from material salvaged from the invasive species removal efforts.</p> <p>http://www.xerces.org/sites/default/files/2018-05/12-015_02_XercesSoc_Nests-for-Native-Bees-fact-sheet_web.pdf</p>	<p>Invasive species removal at the Tier 1 level includes community volunteers leading a Watershed Protection or PARD approved clean-up day, that can also be supported by local non-profits such as Keep Austin Beautiful or the Austin Parks Foundation. Removal will be done by hand only and can include pulling herbaceous noxious weeds such as Johnson Grass, Bermuda Grass, using weed wrenches to remove mid-sized shrubs such as Nandina and tree girdling to remove Ligustrum spp. No herbicides or motorized mechanical equipment may be used as part of this effort.</p>
TIER 2		<p>Projects at the Tier 2 level are led by the Watershed Protection Department (WPD) or the Parks and Recreation Department (PARD) but can include community volunteers as well as non-profit organizations that contract with WPD or PARD such as The Other Ones Foundation and Texas Conservation Corps. Projects can also include machine removal of invasive trees.</p>
TIER 3		<p>Projects in this Tier will be a component of a large -scale project that is greater than \$50,000 in value. Projects will be responsible for removing any invasive material within their limit of construction.</p>
MAINTENANCE	<p>In order to keep nest boxes safe for pollinators , the infill materials-- sticks, bamboo etc-- must be replaced once a year during the winter between late January to early February. Old infill may be scattered away from the nest box to decompose. Also, box keepers should watch for any infestations and spider webs to ensure bees are safe from predators.</p>	<p>Invasive Species removal sites require continued maintenance. Often the soil has a continued seed bank of invasive species that will emerge following the removal of established plants. Quarterly inspections and seedling removals are recommended to ensure that sites are not recolonized. Additionally, native seeds and plugs should be installed at removal areas.</p>

IDEA	 Signage	 Labyrinth
TIER 1	<p>Informal trail markers such as cairns may be implemented to mark distances and direction along trail.</p>	<p>A labyrinth may be a community -led project with City approval on all aspects of the design. Labyrinths may be constructed of rock berms from native stone quarried within a 100-mile radius of the site. Configuration of a labyrinth should allow water to drain. Stone berms should not be greater than 18-inches in height.</p>
TIER 2	<p>Signage in this tier includes weather warnings, community message boards, educational information, interpretive signs, and trail distance markers. These signs can be up to 6ft in height and must follow the materials guidelines outline in Appendix X.</p>	
TIER 3	<p>This scale of signage will include monument signs and park rules. These signs require a third-party professional fabrication and are often included as a component of a larger project.</p>	<p>While a labyrinth could be designed and constructed as part of a larger project, the Vision Plan recommends community input and engagement. The labyrinth was conceived of as a mindful way to bring community members together.</p>
MAINTENANCE	<p>Signs should be made of durable material that will withstand exposure to elements such as cut metal and stone. Detailed educational signage with images should be placed in the shade to reduce fading over time. Maintenance should be performed on signs once a year to remove dirt and graffiti.</p>	<p>Typical maintenance will include a yearly inspection of the Labyrinth. Tier 1 Labyrinths will require weed removal and should also be inspected after a flood event. Any shifted material should be restored to its original condition.</p>

IMPLEMENTATION BY IDEA, CONT.

IDEA	 Creek + Woodland Restoration	 Nature Trail
TIER 1	At the Tier 1 level, community members and non-profits may partner with City approval to plant native trees, perennials and grasses to improve the environment. A list of acceptable species is provided in Appendix X Plant Species.	Nature Trails may be installed with City of Austin approval by community members or community members in partnership with non-profits such as Keep Austin Beautiful and Austin Parks Foundation. Nature Trails should consist of a 6-foot-wide pathway. The pathway material should be single grind hardwood mulch that does not contain invasive seeds.
TIER 2	Tier 2 restorations may involve small-scale site grading, planting and temporary irrigation. These projects will be conducted in part by the City of Austin and may also involve non-profits and community volunteers for some aspects of the work.	Projects in the Tier 2 category could be a typical nature trail, but with City of Austin supported installation. Also, Tier 2 includes projects where technical review and skills are required to install nature trails, such as traversing steep slopes. In these cases, City of Austin property owners may work within their department or contract with local trail building non-profits such as the Texas Conservation Corps.
TIER 3	Tier 3 projects involve large-scale improvements to the environment and creek. The projects may include repairing eroded banks, hydrologic engineering and changes to the creek, soil analysis and improvement and ecological restoration of wetlands and riparian areas.	
MAINTENANCE	Quarterly monitoring, weeding, and invasive species removal are recommended for project sites at all scales. Supplemental water until plants are established are recommended where feasible.	Trails should be maintained per City of Austin standards. Community groups can assist in maintaining trails through cleanup days and replenishing the mulch. After storm events trails should be checked for debris and washout.

IDEA	 Wildflower Planting	 Music Grove
TIER 1	Due to the technical nature of the planting process and equipment required, all wildflower meadow seedings should be implemented by City of Austin property owner.	Tier 1 music grove can involve informal seating areas distanced from private property. Natural elements may be used for seating material such as stumps and boulders between 18-24-inches in height.
TIER 2	Wildflower meadows can be established by City of Austin property owners. Establishing a meadow can be a multiyear process. Community members can advocate for meadows.	Tier 2 improvements could enhance music grove areas by providing an accessible route in permeable paving and accessible seating.
TIER 3		
MAINTENANCE	Wildflower meadows must be maintained according to City of Austin requirements to ensure they are functioning correctly.	Music groves should be maintained biannually to be kept clean and clear.

IMPLEMENTATION BY IDEA, CONT.

IDEA	 Community Message Boards	 Green Infrastructure
TIER 1		Recommended that community members who own property consider cisterns or rain gardens with native plants to treat and slow the water entering the greenway.
TIER 2	Community Message Boards should be constructed of a non-threatened North American hardwood or suitable reclaimed lumber. Design can be initiated by the community but must be reviewed and finalized by the City of Austin property owner.	All green infrastructure projects on City of Austin property should have a review by a civil engineer to ensure they are sized correctly. Small-scale green infrastructure such as raingardens, vegetated swales, rock berms and curb cuts are recommended to allow for run off absorption and treatment prior to entering Williamson Creek. Look for opportunities whenever a projects is mobilized, such as a driveway removal at a floodplain buyout or demolition of existing structure. Add excavation work into these plans and keep access to water for establishment of planting.
TIER 3	If not already implemented, this should be included into trailhead projects that fall into Tier 3.	The greenway has an opportunity for large scale green infrastructure projects. These projects include diverting stormwater outlets into biofiltration or wetland areas along the creek, and creating larger basins at manholes coinciding with flood plain buyouts. These interventions will require designs by licensed civil engineers and landscape architects and should also function as community and environmental amenities with opportunities for recreation and incorporation of native plants.
MAINTENANCE	Recommended that neighborhood organization or community group partner in responsibility with City of Ausitn property owners. Excellent way to share about upcoming community events and organizations.	Green infrastructure elements must be maintained according to City policy listed under the Environmental Criteria Manual.

IDEA	 Community Gardens and Food Forests	 Nature Play
TIER 1	Examples of Food Forest at Tier 1 include expanding existing community gardens wtih Fruit Trees and Food Forest areas. Food forests can also be established, similar to community gardens, by working with City of Austin property owners.	For safety reasons all play elements must be Tier 2 or higher.
TIER 2	At the Tier 2 level, City of Austin property owners could work with non-profits and land managers to establish a series of Food Forests within the Greenway. Community engagement would be recommended to optimize longterm maintenance and care.	Tier 2 features include imaginative play elements that do not require safety fall surfacing. Elements may include tree step stones, vine tunnels, and child-sized raised garden beds. These require design, review and approval by City landowners.
TIER 3	Food forests are a recommended part of large-scale improvements. Maintenance groups must be established for successful implementation.	Tier 3 Nature Play elements include a combination of active and imaginative play elements. Any play element requiring a safety surface will fall in this category. Such elements include balance beams, swings, and climbable elements. Community engagement will be required for these designs.
MAINTENANCE	Maintenance can vary depending on size of Food Forest. At a minimum, plan for watering plants through establishment, quarterly weeding and developing a harvest schedule.	Maintenance varies depending on the play type. All play elements should be maintained by City of Austin.

IMPLEMENTATION BY IDEA, CONT.

IDEA	 Bonded Mulch Trail	 Land Acquisition
TIER 1		At the Tier 1 scale community members could advocate with the City and land owners to establish easements for parkland or acquire additional buyout properties along the greenway. In particular, community groups partnering with private land owners could establish a series of easements that would allow for more continuous trail and park areas through the greenway.
TIER 2		
TIER 3	Bonded wood mulch trails will be fully accessible routes that require grading and design by professional engineer and landscape architect to implement. Installation must be performed by a third-party contractor.	Tier 3 includes land acquisition by the City, such as additional floodplain buyouts. It also includes dedication of park and trail easements for developments adjacent to the greenway.
MAINTENANCE	Bonded mulch trails should be cleaned yearly by spraying a clear coat material to keep the surface well -bound and prevent wear from eroding the surface layer.	

IDEA	 Fitness Programming	 On-Street Bike Lanes
TIER 1	At the Tier 1 level, this could included hiking groups and non-profit programming in existing open spaces such as yoga in the park. Paid activities require permission from the City of Austin	Nature Trails may be installed with City of Austin approval by community members or community members in partnership with non-profits such Keep Austin Beautiful and Austin Parks Foundation. Nature Trails should consist of a 6-foot-wide pathway. The pathway material should be single grind hardwood mulch that does not contain invasive seeds.
TIER 2	Projects at this level can include maintaining a mowed area for activity use, small grading projects, elements, such as metal bars for pull ups or limestone block or boulders to use as aids in kinesthetic and body weight exercises.	Projects in the Tier 2 category could be a typical nature trail, but with City of Austin supported installation. Also, Tier 2 includes projects where technical review and skills are required to install nature trails, such as traversing steep slopes. In these cases, City of Austin property owners may work within their department or contract with local trail building non-profits such as the Texas Conservation Corps.
TIER 3	This would include commercial-grade activity equipment, such as a hand-cycle or recumbent bike. Equipment of this type must include an accessible route and safety surfacing. Equipment should be located at trailheads out of the floodplain only. Additional community engagement is required for this type of equipment. Smaller elements noted in Tier 2 could also be incorporated into Tier 3 projects.	On-street bike lanes require design and review by Austin Transportation Department. Community members can advocate for bike lanes by contacting the ATD.
MAINTENANCE		On street bike lanes should be maintained by City of Austin per City standards.

PEOPLE EXPERIENCING HOMELESSNESS

Austin's parks and open spaces are places where all community members gather to enjoy trails, build social capital, and access Austin's urban nature. Due to the diversity of groups and interests of Austin residents, it is not surprising that conflict may arise between park users. Conflicts between neighborhoods, park users, and unsheltered individuals living in Austin's parks has become an ongoing issue in Austin, and Williamson Creek is no exception. In the past decade, the City of Austin has seen a significant uptick in unsheltered individuals residing in Austin's Parks. This is due to a variety of factors, including Austin's ongoing affordable housing shortage crisis and population growth. In 2019, Austin City Council enacted a set of ordinances that permitted people experiencing homelessness to sit, sleep, lie, and camp in most public spaces. The homelessness crisis was further exacerbated by 2020's COVID-19 crisis, when the number of unsheltered individuals rose 45% from 2019 to 2020¹.

Across the city, residents and park users have voiced concerns over the symptomatic impacts of Austin's housing and homelessness crisis, such as the presence of unsheltered individuals in parks, and their associated tents, belongings, and refuse. There have been many calls to remove encampments in parks and open space. However, this is a short-term response that may only hinder efforts by support services and unsheltered individuals seeking long-term housing solutions. Park clean-ups also strain city department resources, draining time and money away from parks improvements city-wide. The displacement of people experiencing homelessness from parks in this manner

¹ <https://www.austinecho.org/about-echo/homelessness-in-austin/>

also further entrenches homelessness. After a clean-up, displaced individuals may simply relocate to a new area on public land, making it difficult for organizations that provide support services to locate them to connect them to housing and other resources. When clean-ups dispose of people's belongings, this further burdens unsheltered individuals. They must then use their limited financial means to purchase or procure more blankets, tents, or supplies needed to survive living outdoors and limits their ability to spend money on food, transportation, and shelter.

Fully addressing the causes of homelessness is a complex and long-term undertaking that is outside the scope of this Vision Plan. In the short-term, taking an empathetic and communicative approach may help ameliorate conflicts. At Central Williamson Creek Greenway, the following approaches are recommended:

- 1. Prioritize project implementation** in areas along Williamson Creek that will not displace people experiencing homelessness, work with the city to implement projects with participation of unsheltered individuals.
- 2. Post the names and contact information of resources** like The Other Ones Foundation (TOOF) to community message boards. Many unsheltered individuals are not aware of community resources available to help them secure shelter, personal hygiene, food, access to the internet, and other necessities.

- 3. Temporarily employ unsheltered individuals on land improvement projects.** The City of Austin contracts with The Other Ones Foundation (TOOF) on projects like trail-building and invasive species removal. Consider coordinating between the COA and TOOF on appropriate projects along the greenway, including:

- Creation of Nature Trails
- Creek and Woodland Restoration
- Community Gardens
- Invasive Species Removal
- Pollinator Nesting Boxes
- Signage Installation

Invest in neighborhood public education around unsheltered individuals, emphasizing the following ideas:

- Those experiencing homelessness are part of our community.
- It is possible for anyone to experience homelessness.
- Everyone is welcome to use public parks and open spaces
- Those experiencing homelessness may face life-long issues, such as poverty, mental health concerns, physical ailments, and/or addiction.
- Public complaints may strain park resources.
- Public complaints that result in displacement may hinder long-term efforts to find housing for unsheltered individuals.

- 4. Educate the neighborhood** about the newly expanded Integral Care-EMCOT (Expanded Mobile Crisis Outreach Team) a branch of 911 that responds to all mental health-related 911 calls that do not present an imminent threat to public safety without the involvement of city or county police. Neighbors can be directed to request a mental health professional to resolve conflicts rather than police in an effort to stem the potential for police violence against an unsheltered individual and to better address non-violent crisis with the correct training.

5. Support affordable housing in the community. Connect with organizations like HousingWorks Austin, Austin Housing Coalition, and Reform Austin.

6. Advocate for trash cans and trash removal services to service these communities. Support shelterless individuals in taking a land stewardship approach to the spaces they inhabit by providing the resources to remove trash and refuse from the site as well as through educational programs on local ecology and general stewardship principles.

Austin-Based Resources

The Other Ones Foundation

Provides employment and case management

Ending Community Homelessness Coalition

Plans community-wide strategies to end homelessness

Austin Resource Center for the Homeless

City-owned men's shelter

Austin Shelter for Women and Children

Emergency shelter for adult women and their dependents

Front Steps

Offers emergency shelter

United Way for Greater Austin

Connects people to a wide range of services

Mobile Loaves and Fishes

Provides food, clothing, hygiene products, and housing

7: AFTERWORD & APPENDICES



AFTERWORD

The Central Williamson Creek Greenway Vision Plan has been created to guide future greenway improvements and to support fundraising efforts for both community-built and City of Austin-built projects by identifying four primary goals envisioned for the future of the Greenway. These goals, along with their corresponding design strategies, were created from both community input and trail, parks, and ecological design best practices.

Upon approval from the City of Austin's Parks and Recreation Board, this plan is to become a planning document of record, reflecting the desires of the Community Working Group, and the general public to create an ecologically sound and inclusive vision for the future of Central Williamson Creek Greenway. With strategic investment and further design, Central Williamson Creek Greenway has the potential to become a major asset to the growing neighborhood and Austin Community.

BIBLIOGRAPHY

Capital Area Metropolitan Planning Organization. "CAMPO 2045 Plan," 2020

City of Austin. "City of Austin Urban Trails Master Plan," 2014.

City of Austin. "Invasive Species Management Plan," 2014.

City of Austin. "South Austin Combined Neighborhood Plan," 2014

City of Austin. "Southeast Combined Neighborhood Plan," 2002.

iNaturalist. www.inaturalist.org/.

The Nature Conservancy. "Central Williamson Creek Greenway," 2020.

Trust for Public Land. "The Healthy Parks Plan." web.tplgis.org/healthyparksplan/.

Page Intentionally Left Blank

Appendix A

RECOMMENDED PLANT LIST

Native Texas plants should always be selected for woodland restoration, wetland restoration, wildflower planting, and green infrastructure along the greenway. The following is a short list of example species. Consult resources the Lady Bird Johnson Wildflower Center for more information on plant species selection.

	Forbs	Grasses		Shrubs	Trees
Wetland	American Water-willow (<i>Justica americana</i>) Obedient Plant (<i>Physostegia virginiana</i>), Swamp Milkweed (<i>Asclepias incarnata</i>), Spiderwort (<i>Tradescantia</i> spp.), Rosemallow (<i>Hibiscus laevis</i>), Virginia Iris (<i>Iris virginiana</i>)	Bushy Bluestem (<i>Andropogon glomeratus</i>), Cherokee Sedge (<i>Carex cherokeensis</i>), Purple Threeawn (<i>Aristida purpurea</i>)		Buttonbush (<i>Cephalanthus occidentalis</i>), Globe Mallow (<i>Sphaeralcea ambigua</i>)	Black Willow (<i>Salix nigra</i>)
Woodland	Turkscap (<i>Malaviscus arboreus</i>), Red Columbine (<i>Aquilegia canadensis</i>), River Fern (<i>Thelypteris kunthii</i>)	Southwestern Bristle Grass (<i>Setaria schreelei</i>), Cherokee Sedge (<i>Carex cherokeensis</i>), Inland Sea Oats (<i>Chasmanthium latifolium</i>)		Virginia Sweetspire (<i>Itea virginica</i>), American Beautyberry (<i>Callicarpa americana</i>), Redbud (<i>Cercis canadensis</i>), Yaupon Holly (<i>Ilex vomitoria</i>), Flame Acanthus (<i>Anisacanthus quadrifidus</i>)	Curly mesquite (<i>Hilaira belangeri</i>), Cedar Elm (<i>Ulmus crassifolia</i>), American elm (<i>Ulmus americana</i>), Pecan (<i>Carya illinoensis</i>), Hackberry (<i>Celtis occidentalis</i>), Box Elder (<i>Acer negundo</i>), Live Oak (<i>Quercus virginiana</i>), Texas Red Oak (<i>Quercus buckleyi</i>)
Wildflower Meadow	Illinois Bundleflower (<i>Desmanthus illinoensis</i>), Bluebonnet (<i>Lupinus texensis</i>), Black-eyed Susan (<i>Rudbeckia hirta</i>), Zexmenia, Gayfeather (<i>Liatris mucronata</i>), Butterflyweed (<i>Asclepias tuberosa</i>), Standing Cypress (<i>Ipomopsis rubra</i>), Horsemint (<i>Monarda citiodora</i>), Plains coreopsis (<i>Coreopsis tinctoria</i>)	Purple threeawn (<i>Aristida purpurea</i>), Sideoats grama (<i>Bouteloua curtipendula</i>), Silver bluestem (<i>Bothriochloa saccharoides</i>), Green Sprangletop (<i>Leptochloa dubia</i>),		N/A, Woody vegetation should be used sparingly in wildflower meadows.	N/A, Woody vegetation should be used sparingly in wildflower meadows.
Green Infrastructure	Coneflower (<i>Echinacea purpurea</i>), Wax Mallow (<i>Malaviscus arboreus</i> var. <i>drummondii</i>), Bergamot (<i>Monarda fistulosa</i>), Blood Sage (<i>Salvia coccinea</i>), Obedient Plant, Blue Mistflower	Indiangrass (<i>Sorghastrum nutans</i>), Sideoats Grama (<i>Bouteloua curtipendula</i>), Switchgrass (<i>panicum virgatum</i>)		Buttonbush (<i>Cephalanthus occidentalis</i>), Southern Wax Myrtle (<i>Myrica cerifera</i>), American Beauty Berry (<i>Callicarpa americana</i>)	Bald Cypress (<i>Taxodium distichum</i>)

Appendix B

RECOMMENDED MATERIALS CRITERIA

Selecting sustainable and safe materials for construction along Williamson Creek will ensure the continued health of the creek and lessen the environmental impacts of construction and development. Learn more about these strategies through the Sustainable Sites Initiative (sustainablesites.org).

Recommendation	Intent	Strategy 1		Strategy 2	Strategy 3	More Resources
Use sustainable wood sources	Many commonly-used landscape wood products are sourced from threatened tree species or threatened ecosystems. Minimize impact on these species by purchasing sustainably-sourced wood from non-threatened tree species.	Review the Convention on International Trade in Endangered Species (CITES) website to review the status of tree species and ensure that is not threatened with extinction or listed as requiring trade controls to avoid utilization incompatible with their survival. www.cites.org/eng/resources/species.html		Review the International Union for Conservation of Nature's "Red List of Endangered Species" to ensure the species is not in danger of extinction. www.iucnredlist.org .	Use recycled plastic, composite lumber, or another material instead of wood.	
Use salvaged materials and plants	Salvaging landscape materials from on-site or from re-use suppliers like a member of the Building Materials Reuse Association is an effective way to divert waste from landfills and conserve financial resources. Salvaged plant materials also conserves native, local plant genetic pools.	Identify salvaged materials suppliers or local demolition and construction projects. Search directories of reuse stores here: Building Materials Reuse Association, www.buildingreuse.org Habitat for Humanity's ReStore, www.habitat.org/env/restores.aspx		Get in touch with a local native plant conservation group. Many of these groups "rescue" native plants from construction sites, and may be able to provide locally-sourced salvaged plants.		Green Building Research Guide's searchable database, www.greenguide.com/exchange/search.html Reuse Development Organization, www.redo.org
Use materials with a high recycled content	Use of new materials with a high recycled content reduces resource extraction and diverts materials away from landfills and into the production of new materials.	Speak with local materials suppliers about products that may help achieve this goal. Examples of some materials include plastic lumber with recycled content, asphalt with recycled asphalt aggregate, and high recycled content steel.		Learn more about recycled products and industry materials recycling. The U.S. EPA Industrial Materials website: www.epa.gov/industrialmaterials The U.S. EPA's Comprehensive Procurement Guidelines www.epa.gov/cpg		California Department of Resources and Recycling, Recycled Content Products Directory, www.calrecycle.ca.gov/RCP/default.asp

Recommendation	Intent	Strategy 1		Strategy 2	Strategy 3	More Resources
<p>Use regional materials</p>	<p>Sourcing regional landscape materials and plants has many benefits, including reducing the use of fossil fuels used for transportation, supporting local economies, increasing the demand and therefore the future supply of native plants, and supporting regional identity through the use of local materials.</p>	<p>Soils, compost, mulch , boulders, and aggregate sourcing should occur within 50 miles of the project site.</p>		<p>Plant material should be grown and supplied within 250 miles of the site.</p>	<p>The extraction, harvest or recovery, and manufacture of all other materials should occur within 500 miles of the site.</p>	<p>For more information about materials and resources, consult the U.S. Green Building Council's website: leedcasestudies.usgbc.org/materials.cfm?ProjectID=189.</p> <p>JW Thompson and K Sorvig, Sustainable Landscape Construction: A Guide to Green Building Outdoors (Washington, D.C., Island Press, 2000).</p>
<p>Use materials that will not harm the health of Williamson Creek or human health.</p>	<p>Use materials that do not contain chemicals known to harm human health or aquatic health. Prioritize materials that have chemical inventories, life-cycle information and hazard assessments. In addition to eliminating harmful chemical runoff, do not use materials that contribute sediment or aggregate to the creek.</p>	<p>Specify products from manufacturers who can provide chemical inventories covering all chemicals in each life cycle stage of the product. Manufacturers should also report all known hazards and their concentrations.</p>		<p>Use materials without topical finishes or other chemical additives whenever possible.</p>	<p>Learn more about chemicals in building products by consulting Pharos Project's Chemical and Material Library at www.pharosproject.net/material.</p>	<p>United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), www.osha.gov/dsg/hazcom/ghs.html.</p> <p>Green chemicals standards are listen through NSF/GCI/ANSI 355 Greener Chemicals Products and Processes Information Standard, www.nsf.org/business/sustainability/product_greener_chemicals.</p>

OPINION OF PROBABLE COSTS SUMMARY

IMPLEMENTATION STREAM

OPINION OF PROBABLE COST BY AREA

AREA 1

TIER 1 - 15,000-30,000*
TIER 2 - 206,000
TIER 3 - 320,000

AREA 2

TIER 1 - 15,000-30,000*
TIER 2 - 175,000
TIER 3 - 340,000

AREA 3

TIER 1 - 15,000-42,000*
TIER 2 - 150,000
TIER 3 - 740,000

Meadow Creek Trailhead

Orland Trailhead

Heartwood Community Garden

Emerald Wood Community Garden

OPINION OF PROBABLE COSTS - AREA 1 - TIER 1

					Comments
Invasive Species Removal					Costs for this phase could be further reduced by partnering with City of Austin or a local non profit for use of tools rather than purchasing or renting equipment. Costs in this section indicate approximate cost to purchase equipment. Tier 1 invasive species removal to involve a group of community volunteers with approval by the City of Austin property owner.
Weed Wrench	3	EA	\$189.00	\$567.00	
Loppers	4	EA	\$50.00	\$200.00	
Mattock	2	EA	\$50.00	\$100.00	
Shovel - Round Point	4	EA	\$50.00	\$200.00	
Aborist Hand Saw	2	EA	\$75.00	\$150.00	
Tree Paint	10	EA	\$6.00	\$60.00	
Tree Girdler Tool	4	EA	\$222.00	\$888.00	
General Conditions Sub-Total				\$2,165.00	
Seating - Informal, Wilderness					May be boulders or logs adjacent to nature trail where users can rest. Provide informal seating every 1/8-mile for broader access. Assumes labor by volunteers with permission from City of Austin property owners.
Boulders - Existing		EA	\$-	\$-	Community members may not move existing boulders, but may take advantage of them by locating a natural trail nearby so long as the area is outside of the critical environmental feature setback zone.
Logs - Existing		EA	\$-	\$-	Logs may be cut into 4-feet in length or smaller and placed near the trail. No native trees may be cut by community members to create logs.
Logs - Invasive Species Removal		EA	\$-	\$-	Large trees removed in Tier 2 efforts may be reclaimed for informal seating near trail.
Seating Sub-Total				\$-	
Nature Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Mulch - Wholesale	293	CY	\$40.00	\$11,733.33	First grind mulch placed 3-inches thick on a 6ft wide nature trail. Collaborate with City of Austin property owner or non-profit for reduced cost.
Wood Chipper Rental		DAY	\$400.00	\$-	Cost may be reduced by partnering with local non-profit such as Keep Austin Beautiful, or City of Austin property owners PARD or WPD
Mulch - Invasive Species		CY	\$-	\$-	Use branches 6-inches or larger. Ensure no branches or seeds are placed into the wood chipper. Grind the mulch twice. Mulch from invasive species removal may be used to reduce cost of retail mulch.
Nature Trail - 1 mile Sub-Total				\$11,733.33	
Mountain Bike Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Shovel - Round Point	4	EA	\$50.00	\$200.00	No digging over 6-inches to level the trail.
Loppers	4	EA	\$50.00	\$200.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be washed in bleach between every new tree.
Aborist Hand Saw	2	EA	\$75.00	\$150.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be washed in bleach between every new tree.
Tree Paint	10	EA	\$6.00	\$60.00	All pruning areas must be covered in tree paint.
Natural Trail - 1 mile Sub-Total				\$610.00	

OPINION OF PROBABLE COSTS - AREA 1 - TIER 1 (CONTINUED)

Native Shade Tree	60	Lump	\$-	\$-	Tree Folks NeighborWoods Program
Native Ornamental Tree	60	EA	\$-	\$-	Tree Folks NeighborWoods Program
Mulch	3	CY	\$40.00	\$133.33	Organic, shredded hardwood mulch for trees and display planting areas.
Planting Bed Soil	3	CY	\$65.00	\$216.67	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.
Subtotal Planting				\$350.00	

CREEK RESTORATION - PLANTS					Tier 1 Planting for Area 1 includes accent planting at trailheads and restoration planting with native trees, grasses and perennials at invasive species removal areas. Community volunteers to collaborate with City of Austin and nonprofits to receive wholesale or discounted prices on materials. Community members and community gardens could learn from local organizations such as Native Plant Society of Texas to propagate native plants and save costs. Assumes labor by volunteers with permission from City of Austin property owners.
Native Grass Live Root Bunch	50	EA	\$20.00	\$1,000.00	Bunches of live roots of native grasses.
Shrub/Cacti	30	EA	\$20.00	\$600.00	1 Gal. containers of native cactii
Native Perennials	200	EA	\$10.00	\$2,000.00	4" pot of native plants planted at trail heads
Vine	30	EA	\$15.00	\$450.00	4" pot native vine to be planted along fences or vertical elements
Mulch	130	CY	\$40.00	\$5,200.00	Organic, shredded hardwood mulch for trees and display planting areas.
Planting Bed Soil	100	CY	\$65.00	\$6,500.00	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.
Subtotal Planting				\$15,750.00	

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

9985 (0.23 acres)	1500 (15%)	8500 (85%)
	500 (5%)	9500 (95%)

OPINION OF PROBABLE COSTS - AREA 1 - TIER 2

Bonded Hardwood Mulch Loop Trail				\$82,929.88	
At Menchaca Road Trailhead				\$29,605.11	1/8 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Fencing Screen	200	LF	\$2.00	\$400.00	
Fence Sand Bags	20	EA	\$5.50	\$110.00	1 per 10 LF
Tree Protection Fencing					
Temporary Chainlink fence	200	LF	\$3.00	\$600.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	3	Month	\$125.00	\$375.00	
Hardscape					
Bonded Hardwood Mulch	1,980	SF	\$12.50	\$24,750.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	147	SY	\$3.10	\$454.67	Grading for accessibility
At Utility Corridor				\$53,324.77	1/4 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Hardscape					

OPINION OF PROBABLE COSTS - AREA 1 - TIER 2 (CONTINUED)

Bonded Hardwood Mulch	3,960	SF	\$12.50	\$49,500.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	293	SY	\$3.10	\$909.33	Grading for accessibility
Seating -Accessible, Park				\$5,000.00	
Bench	2	EA	\$2,500.00	\$5,000.00	City of Austin PARD benches
Waste Receptables at Trailheads				\$15,000.00	
Litter Receptacles	3	EA	\$2,500.00	\$7,500.00	City of Austin PARD standard
Recycling Receptacles	3	EA	\$2,500.00	\$7,500.00	City of Austin PARD standard
Community Kiosk				\$1,500.00	
Message Board	1	EA	\$1,000.00	\$1,500.00	4ftx6ft wood frame message board with roof
Weather Warning Signage				\$1,800.00	
Metal Post Sign	3	EA	\$600.00	\$1,800.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Geology Interpretive Sign				\$1,000.00	
Metal Sign	1	EA	\$1,000.00	\$1,000.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Wildflower Meadow				\$98,786.11	
At Utility Corridor					Can be done in phases
Soil Removal	1,472	CY	\$10.00	\$14,722.22	
Site Grading	1,472	SY	\$3.10	\$4,563.89	
Wildflower Hydroseed	159,000	SF	\$0.50	\$79,500.00	
Reclaimed Branch Berm				\$-	
Branches 3-inch Diameter		LS	\$-	\$-	
Rock Berm				\$833.33	
9-12-inch Rock	42	CY	\$20.00	\$833.33	Rock berm 1'-6" height max

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications, and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 1 - TIER 3

Bike Lanes				\$10,600.00	
Jentsch Court					Extension of Jones Road bike lanes east across Menchaca to neighborhood trailhead
Striping	530	LF	\$20.00	\$10,600.00	City of Austin standard
Flexible Delineator	35	EA	\$40.00	\$1,413.33	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Lansing Drive					Extension of Jones Road bike lanes east across Menchaca to neighborhood trailhead
Striping	3,400	LF	\$20.00	\$68,000.00	City of Austin standard
Flexible Delineator	227	EA	\$40.00	\$9,066.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
High Water Route				\$26,000.00	
Sidewalk on Menchaca to Kings Hwy					Extension of Jones Road bike lanes east across Menchaca to neighborhood trailhead
Thermoplastic Pavement Markings	1,300	LF	\$20.00	\$26,000.00	High traffic pavement markings for wayfinding to indicate high water route
Green Infrastructure				\$280,355.46	
Stormwater Quality Feature adjacent to				\$280,355.46	Large stormwater quality feature intercepting stormwater outfall into creek
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$10,105.19	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	14,000	SF	\$0.35	\$4,900.00	
Soil Removal	519	CY	\$10.00	\$5,185.19	

OPINION OF PROBABLE COSTS - AREA 1 - TIER 3 (CONTINUED)

Grading /Drainage				\$88,881.48	
Site Grading	14,000	SF	\$3.10	\$43,400.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	519	CY	\$80.00	\$41,481.48	
Planting				\$126,037.04	
Ornamental Grass	3,780	EA	\$25.00	\$94,500.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirements
Mulch	130	CY	\$65.00	\$8,425.93	3"
Top Soil Fine Grading	156	CY	\$65.00	\$10,111.11	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications, and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 2 - TIER 1

IDEA	QUANTITY	UNIT	UNIT COST	SUBTOTAL	Comments
Invasive Species Removal					Costs for this phase could be further reduced by partnering with City of Austin or a local non profit for use of tools rather than purchasing or renting equipment. Costs in this section indicate approximate cost to purchase equipment. Tier 1 invasive species removal to involve a group of community volunteers with approval by the City of Austin property owner.
Weed Wrench	3	EA	\$189.00	\$567.00	
Loppers	4	EA	\$50.00	\$200.00	
Mattock	2	EA	\$50.00	\$100.00	
Shovel - Round Point	4	EA	\$50.00	\$200.00	
Aborist Hand Saw	2	EA	\$75.00	\$150.00	
Tree Paint	10	EA	\$6.00	\$60.00	
Tree Girdler Tool	4	EA	\$222.00	\$888.00	
General Conditions Sub-Total				\$2,165.00	
Seating - Informal, Wilderness					May be boulders or logs adjacent to nature trail where uses can rest. Provide informal seating every 1/8-mile for broader access. Assumes labor by volunteers with permission from City of Austin property owners.
Boulders - Existing	NA	EA	\$-	\$-	Community members may not move existing boulders, but may take advantage of them by locating a natural trail nearby so long as the area is outside of the critical environmental feature setback zone.
Logs - Existing		EA	\$-	\$-	Logs may be cut into 4-feet in length or smaller and placed near the trail. No native trees may be cut by community members to create logs.
Log Stumps - Invasive Species Remov-	30	EA	\$-	\$-	Large trees removed in Tier 2 efforts are reclaimed for stumps at outdoor classrooms and music grove.
Seating Sub-Total				\$-	
Nature Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Mulch - Wholesale	293	CY	\$40.00	\$11,733.33	First grind mulch placed 3-inches thick on a 6ft wide nature trail. Collaborate with City of Austin property owner or non-profit for reduced cost.
Wood Chipper Rental		DAY	\$400.00	\$-	Cost may be reduced by partnering with local non-profit such as Austin Parks Foundation, or City of Austin property owners PARD or WPD
Mulch - Invasive Species		CY	\$-	\$-	Use branches 6-inches or larger. Ensure no branches or seeds are placed into the wood chipper. Grind the mulch twice. Mulch from invasive species removal may be used to reduce cost of retail mulch.
Nature Trail - 1 mile Sub-Total				\$11,733.33	
Mountain Bike Trail - 1 mile					Assumes labor by volunteers with permission from City of Austin property owners.
Shovel - Round Point	4	EA	\$50.00	\$200.00	No digging over 6-inches to level the trail.
Loppers	4	EA	\$50.00	\$200.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be washed in bleach between every new tree.
Aborist Hand Saw	2	EA	\$75.00	\$150.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be washed in bleach between every new tree.
Tree Paint	10	EA	\$6.00	\$60.00	All pruning areas must be covered in tree paint.
Natural Trail - 1 mile Sub-Total				\$610.00	

OPINION OF PROBABLE COSTS - AREA 2 - TIER 1 (CONTINUED)

Item	Quantity	Unit	Unit Cost	Total Cost	Description
Fasteners	3	EA	\$10.00	\$30.00	3-inch Wood Screws
Dried bamboo	0	LS	\$-	\$-	Harvest from invasive species removal
Drill Bit	1	EA	\$12.00	\$12.00	3/8 Drill Bit
4x4 Wood Post	1	EA	\$24.00	\$24.00	4x4x8 Rough Sawn Atlantic Cedar - untreated cut to 3ft length
Subtotal Planting				\$126.00	

CREEK RESTORATION - TREES					Tier 1 Planting for Area 2 tree plantings include small 5 gallon trees sourced from Tree Folks NeighborWoods Program or a similar non-profit source. Community members and community gardens could also partner with non profits to propogate native trees for the greenway. Assumes labor by volunteers with permission from City of Austin property owners.
Native Shade Tree	60	Lump	\$-	\$-	Tree Folks NeighborWoods Program
Native Ornamental Tree	60	EA	\$-	\$-	Tree Folks NeighborWoods Program
Mulch	3	CY	\$40.00	\$133.33	Organic, shredded hardwood mulch for trees and display planting areas. To reduce cost, community members may apply for a grant from Austin
Planting Bed Soil	3	CY	\$65.00	\$216.67	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.
Subtotal Planting				\$350.00	

CREEK RESTORATION - PLANTS					Tier 1 Planting for Area 1 includes accent planting at trailheads and restoration planting with native trees, grasses and perennials at invasive species removal areas. Community volunteers to collaborate with City of Austin and nonprofits to receive wholesale or discounted prices on materials. Community members and community gardens could learn from local organizations such as Native Plant Society of Texas to propogate native plants and save costs. Assumes labor by volunteers with permission from City of Austin property owners.
Native Grass Live Root Bunch	50	EA	\$20.00	\$1,000.00	Bunches of live roots of native grasses.
Shrub/Cacti	30	EA	\$20.00	\$600.00	1 Gal. containers of native cactii
Native Perennials	200	EA	\$10.00	\$2,000.00	4" pot of native plants planted at trail heads
Vine	30	EA	\$15.00	\$450.00	4" pot native vine to be planted along fences or vertical elements
Mulch	130	CY	\$40.00	\$5,200.00	Organic, shredded hardwood mulch for trees and display planting areas. To reduce cost, community members may apply for a grant from Austin
Planting Bed Soil	100	CY	\$65.00	\$6,500.00	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.
Subtotal Planting				\$15,750.00	

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 2 - TIER 2

Item	Quantity	Unit	Unit Cost	Extension	Comments
Bonded Hardwood Mulch Loop Trail				\$29,605.11	
At Meadow Creek Trailhead				\$29,605.11	1/8 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Fencing Screen	200	LF	\$2.00	\$400.00	
Fence Sand Bags	20	EA	\$5.50	\$110.00	1 per 10 LF
Tree Protection Fencing					
Temporary Chainlink fence	200	LF	\$3.00	\$600.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	3	Month	\$125.00	\$375.00	
Hardscape					
Bonded Hardwood Mulch	1,980	SF	\$12.50	\$24,750.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	147	SY	\$3.10	\$454.67	Grading for accessibility
Food Forest				\$14,000.00	
Meadow Creek Trailhead on Meadow	1	EA	\$7,000.00	\$7,000.00	
Meadow Creek Trailhead on Radam Circle	1	EA	\$7,000.00	\$7,000.00	
Seating - Informal, Wilderness				\$8,000.00	
Boulders	20	EA	\$400.00	\$8,000.00	4x6 Limestone boulders. Refer to materials list for additional requirements.
Waste Receptables at Trailheads				\$25,000.00	
Litter Receptacles	5	EA	\$2,500.00	\$12,500.00	City of Austin PARD standard
Recycling Receptacles	5	EA	\$2,500.00	\$12,500.00	City of Austin PARD standard
Community Kiosk				\$1,500.00	
Message Board	2	EA	\$1,000.00	\$1,500.00	4ftx6ft wood frame message board with roof
Weather Warning Signage				\$2,400.00	

OPINION OF PROBABLE COSTS - AREA 2 - TIER 2 (CONTINUED)

Metal Post Sign	4	EA	\$600.00	\$2,400.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Geology Interpretive Sign				\$4,000.00	
Metal Sign	4	EA	\$1,000.00	\$4,000.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Wildflower Meadow				\$105,620.37	
At Meadow Creek Trailhead				\$18,638.89	
Soil Removal	278	CY	\$10.00	\$2,777.78	
Site Grading	278	SY	\$3.10	\$861.11	
Wildflower Hydroseed	30,000	SF	\$0.50	\$15,000.00	
At Emerald Wood Floodplain Buyouts				\$46,597.22	May be done in phases by each lot.
Soil Removal	694	CY	\$10.00	\$6,944.44	
Site Grading	694	SY	\$3.10	\$2,152.78	
Wildflower Hydroseed	75,000	SF	\$0.50	\$37,500.00	
At Emerald Wood Floodplain Buyouts				\$40,384.26	May be done in phases.
Soil Removal	602	CY	\$10.00	\$6,018.52	
Site Grading	602	SY	\$3.10	\$1,865.74	
Wildflower Hydroseed	65,000	SF	\$0.50	\$32,500.00	
Reclaimed Branch Berm				\$-	
Branches 3-inch Diameter		LS	\$-	\$-	
Rock Berm				\$833.33	
9-12-inch Rock	42	CY	\$20.00	\$833.33	Rock berm 1'-6" height max

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications, and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 2 - TIER 3

Bike Lanes				\$99,733.33	
Radam Circle				\$27,200.00	
Striping	1,200	LF	\$20.00	\$24,000.00	City of Austin standard
Flexible Delineator	80	EA	\$40.00	\$3,200.00	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Meadow Creek Circle Drive				\$15,866.67	
Striping	700	LF	\$20.00	\$14,000.00	City of Austin standard
Flexible Delineator	47	EA	\$40.00	\$1,866.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Emerald Wood Drive				\$56,666.67	
Striping	2,500	LF	\$20.00	\$50,000.00	City of Austin standard
Flexible Delineator	167	EA	\$40.00	\$6,666.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
High Water Route				\$88,000.00	
Emerald Wood Drive					
Thermoplastic Pavement Markings	2,500	LF	\$20.00	\$50,000.00	High traffic pavement markings for wayfinding to indicate high water route
Radam Circle					
Thermoplastic Pavement Markings	1,200	LF	\$20.00	\$24,000.00	High traffic pavement markings for wayfinding to indicate high water route
Meadow Creek Circle Drive					
Thermoplastic Pavement Markings	700	LF	\$20.00	\$14,000.00	High traffic pavement markings for wayfinding to indicate high water route
Green Infrastructure				\$149,610.28	
Rain Garden on Meadow Creek Circle				\$149,610.28	Series of raingardens intercepting stormwater from MeadowCreek Drive before entering the storwamter inlet
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	

OPINION OF PROBABLE COSTS - AREA 2 - TIER 3 (CONTINUED)

Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	5,200	SF	\$0.35	\$1,820.00	
Soil Removal	193	CY	\$10.00	\$1,925.93	
Grading /Drainage				\$35,527.41	
Site Grading	5,200	SF	\$3.10	\$16,120.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	193	CY	\$80.00	\$15,407.41	
Planting				\$54,985.19	
Ornamental Grass	1,404	EA	\$25.00	\$35,100.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirements
Mulch	48	CY	\$65.00	\$3,129.63	3"
Top Soil Fine Grading	58	CY	\$65.00	\$3,755.56	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter
Stormwater Quality Feature on Radam				\$133,031.39	Large stormwater quality feature intercepting stormwater outfall that current lets out into Williamson Creek.
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$4,151.48	

OPINION OF PROBABLE COSTS - AREA 2 - TIER 3 (CONTINUED)

Storm Inlet Removal	1	EA	\$500.00	\$500.00	
Small Drain/Inlet Removal	1	EA	\$250.00	\$250.00	
Manhole Removal	1	EA	\$500.00	\$500.00	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	4,000	SF	\$0.35	\$1,400.00	
Soil Removal	148	CY	\$10.00	\$1,481.48	
Grading /Drainage				\$28,251.85	
Site Grading	4,000	SF	\$3.10	\$12,400.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	148	CY	\$80.00	\$11,851.85	
Planting				\$45,296.30	
Ornamental Grass	1,080	EA	\$25.00	\$27,000.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirements
Mulch	37	CY	\$65.00	\$2,407.41	3"
Top Soil Fine Grading	44	CY	\$65.00	\$2,888.89	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications, and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 3 - TIER 1

IDEA	QUANTITY	UNIT	UNIT COST	SUBTOTAL	Comments
Invasive Species Removal				\$2,165.00	Costs for this phase could be further reduced by partnering with City of Austin or a local non profit for use of tools rather than purchasing or renting equipment. Costs in this section indicate approximate cost to purchase equipment. Tier 1 invasive species removal to involve a group of community volunteers with approval by the City of Austin property owner.
Weed Wrench	3	EA	\$189.00	\$567.00	
Loppers	4	EA	\$50.00	\$200.00	
Mattock	2	EA	\$50.00	\$100.00	
Shovel - Round Point	4	EA	\$50.00	\$200.00	
Aborist Hand Saw	2	EA	\$75.00	\$150.00	
Tree Paint	10	EA	\$6.00	\$60.00	
Tree Girdler Tool	4	EA	\$222.00	\$888.00	
Seating - Informal, Wilderness				\$-	May be boulders or logs adjacent to nature trail where users can rest. Provide informal seating every 1/8-mile for broader access. Assumes labor by volunteers with permission from City of Austin property owners.
Boulders - Existing	NA	EA	\$-	\$-	Community members may not move existing boulders, but may take advantage of them by locating a natural trail nearby so long as the area is outside of the critical environmental feature setback zone.
Logs - Existing		EA	\$-	\$-	Logs may be cut into 4-feet in length or smaller and placed near the trail. No native trees may be cut by community members to create logs.
Log Stumps - Invasive Species Removal	30	EA	\$-	\$-	Large trees removed in Tier 2 efforts are reclaimed for stumps at outdoor classrooms and music grove.
Nature Trail - 2 miles				\$23,466.67	Assumes labor by volunteers with permission from City of Austin property owners.
Mulch - Wholesale	587	CY	\$40.00	\$23,466.67	First grind mulch placed 3-inches thick on a 6ft wide nature trail. Collaborate with City of Austin property owner or non-profit for reduced cost.
Wood Chipper Rental		DAY	\$400.00	\$-	Cost may be reduced by partnering with local non-profit such as Austin Parks Foundation, or City of Austin property owners PARD or WPD
Mulch - Invasive Species		CY	\$-	\$-	Use branches 6-inches or larger. Ensure no branches or seeds are placed into the wood chipper. Grind the mulch twice. Mulch from invasive species removal may be used to reduce cost of retail mulch.
Mountain Bike Trail - 1 mile				\$610.00	Assumes labor by volunteers with permission from City of Austin property owners.
Shovel - Round Point	4	EA	\$50.00	\$200.00	No digging over 6-inches to level the trail.
Loppers	4	EA	\$50.00	\$200.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be washed in bleach between every new tree.
Aborist Hand Saw	2	EA	\$75.00	\$150.00	For pruning branches 2-inch diameter in size or less adjacent to the trail. Blade must be washed in bleach between every new tree.
Tree Paint	10	EA	\$6.00	\$60.00	All pruning areas must be covered in tree paint.
Pollinator Nesting Boxes				\$126.00	Assumes labor by volunteers with permission from City of Austin property owners. Quantities of materials will be sufficient for up to 6 nesting boxes.
Wood Boards	6	EA	\$10.00	\$60.00	2x4x8 Rough Sawn Atlantic Cedar - untreated
Fasteners	3	EA	\$10.00	\$30.00	3-inch Wood Screws
Dried bamboo	0	LS	\$-	\$-	Harvest from invasive species removal
Drill Bit	1	EA	\$12.00	\$12.00	3/8 Drill Bit
4x4 Wood Post	1	EA	\$24.00	\$24.00	4x4x8 Rough Sawn Atlantic Cedar - untreated cut to 3ft length

OPINION OF PROBABLE COSTS - AREA 3 - TIER 1 (CONTINUED)

CREEK RESTORATION - TREES				\$350.00	Tier 1 Planting for Area 2 tree plantings include small 5 gallon trees sourced from Tree Folks NeighborWoods Program or a similar non-profit source. Community members and community gardens could also partner with non profits to propogate native trees for the green-way. Assumes labor by volunteers with permission from City of Austin property owners.
Native Shade Tree	60	Lump	\$-	\$-	Tree Folks NeighborWoods Program
Native Ornamental Tree	60	EA	\$-	\$-	Tree Folks NeighborWoods Program
Mulch	3	CY	\$40.00	\$133.33	Organic, shredded hardwood mulch for trees and display planting areas. To reduce cost, community members may apply for a grant from Austin Parks Foundation.
Planting Bed Soil	3	CY	\$65.00	\$216.67	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.
CREEK RESTORATION - PLANTS				\$15,750.00	Tier 1 Planting for Area 1 includes accent planting at trailheads and restoration planting with native trees, grasses and perennials at invasive species removal areas. Community volunteers to collaborate with City of Austin and nonprofits to receive wholesale or discounted prices on materials. Community members and community gardens could learn from local organizations such as Native Plant Society of Texas to propogate native plants and save costs. Assumes labor by volunteers with permission from City of Austin property owners.
Native Grass Live Root Bunch	50	EA	\$20.00	\$1,000.00	Bunches of live roots of native grasses.
Shrub/Cacti	30	EA	\$20.00	\$600.00	1 Gal. containers of native cactii
Native Perennials	200	EA	\$10.00	\$2,000.00	4" pot of native plants planted at trail heads
Vine	30	EA	\$15.00	\$450.00	4" pot native vine to be planted along fences or vertical elements
Mulch	130	CY	\$40.00	\$5,200.00	Organic, shredded hardwood mulch for trees and display planting areas. To reduce cost, community members may apply for a grant from Austin Parks Foundation.
Planting Bed Soil	100	CY	\$65.00	\$6,500.00	Organic topsoil from Organics by Gosh or similar to add to planting areas and tree pits.

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 3 - TIER 2

Item	Quantity	Unit	Unit Cost	Extension	Comments
Bonded Hardwood Mulch Loop Trail				\$29,605.11	
At Orland Trailhead				\$29,605.11	1/8 mile loop
General Conditions					
Mobilization	1	LS	5%	\$1,357.65	5% of Project Subtotal
Stabilized Construction Access	30	SY	\$15.00	\$450.00	
SWPPP maintenance	3	Month	\$8.00	\$24.00	
Safety and PPE	1	LS	\$500.00	\$500.00	
Job Site Supervision		WK	\$100.00	\$-	projected job duration in weeks
Job Site Fencing and Gate		LF	\$3.80	\$-	Perimeter only
Bond		LS	0.15%	\$40.73	0.15% of Project Subtotal
Insurance		LS	2%	\$543.06	2% of Project Subtotal
Fencing Screen	200	LF	\$2.00	\$400.00	
Fence Sand Bags	20	EA	\$5.50	\$110.00	1 per 10 LF
Tree Protection Fencing					
Temporary Chainlink fence	200	LF	\$3.00	\$600.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	3	Month	\$125.00	\$375.00	
Hardscape					
Bonded Hardwood Mulch	1,980	SF	\$12.50	\$24,750.00	6ft wide hardwood mulch with binder
Grading /Drainage					
Site Grading	147	SY	\$3.10	\$454.67	Grading for accessibility
Food Forest				\$14,000.00	
Heartwood Community Garden	1	EA	\$7,000.00	\$7,000.00	
Orland Trailhead	1	EA	\$7,000.00	\$7,000.00	
Seating - Informal, Wilderness				\$16,000.00	
Boulders	40	EA	\$400.00	\$16,000.00	4x6 Limestone boulders. Refer to materials list for additional requirements.
Waste Receptables at Trailheads				\$30,000.00	
Litter Receptacles	6	EA	\$2,500.00	\$15,000.00	City of Austin PARD standard
Recycling Receptacles	6	EA	\$2,500.00	\$15,000.00	City of Austin PARD standard
Community Kiosk				\$1,500.00	
Message Board	2	EA	\$1,000.00	\$1,500.00	4ftx6ft wood frame message board with roof
Weather Warning Signage				\$3,600.00	
Metal Post Sign	6	EA	\$600.00	\$3,600.00	Galvanized aluminum post set in concrete, reflective aluminum sign

OPINION OF PROBABLE COSTS - AREA 3 - TIER 2 (CONTINUED)

Geology Interpretive Sign				\$4,000.00	
Metal Sign	4	EA	\$1,000.00	\$4,000.00	Galvanized aluminum post set in concrete, reflective aluminum sign
Wildflower Meadow				\$71,759.72	
At Heartwood Drive Floodplain Buyouts				\$71,759.72	May be done in phases by each lot.
Soil Removal	1,069	CY	\$10.00	\$10,694.44	
Site Grading	1,069	SY	\$3.10	\$3,315.28	
Wildflower Hydroseed	115,500	SF	\$0.50	\$57,750.00	
Reclaimed Branch Berm				\$-	
Rock Berm				\$5,000.00	
9-12-inch Rock	250	CY	\$20.00	\$5,000.00	Rock berm 1'-6" height max

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications, and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

OPINION OF PROBABLE COSTS - AREA 3 - TIER 3

Bike Lanes				\$74,800.00	
Ramble Lane				\$56,666.67	
Striping	2,500	LF	\$20.00	\$50,000.00	City of Austin standard
Flexible Delineator	167	EA	\$40.00	\$6,666.67	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
Meadow Creek Circle Drive				\$18,133.33	
Striping	800	LF	\$20.00	\$16,000.00	City of Austin standard
Flexible Delineator	53	EA	\$40.00	\$2,133.33	Flexible Delineator between bike lane and vehicular lane spaced 15ft o.c.
High Water Route				\$50,000.00	
South 1st Street					
Thermoplastic Pavement Markings	2,500	LF	\$20.00	\$50,000.00	High traffic pavement markings for wayfinding to indicate high water route
Boardwalk				\$120,000.00	
Orland Trailhead					
Wood Boardwalk with Steel Structure	400	LF	\$300.00	\$120,000.00	Boardwalk with 42-inch guardrails to create ADA route to nature trails and creek
Green Infrastructure				\$613,961.85	
Rain Garden on Heartwood Drive Buyouts				\$94,637.87	Series of raingardens intercepting stormwater from MeadowCreek Drive before entering the stormwater inlet and creek
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$1,100.56	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	1,500	SF	\$0.35	\$525.00	
Soil Removal	56	CY	\$10.00	\$555.56	
Grading /Drainage				\$13,094.44	

OPINION OF PROBABLE COSTS - AREA 3 - TIER 3 (CONTINUED)

Grading /Drainage				\$13,094.44	
Site Grading	1,500	SF	\$3.10	\$4,650.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	56	CY	\$80.00	\$4,444.44	
Planting				\$25,111.11	
Ornamental Grass	405	EA	\$25.00	\$10,125.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirements
Mulch	14	CY	\$65.00	\$902.78	3"
Top Soil Fine Grading	17	CY	\$65.00	\$1,083.33	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter
Stormwater Quality Feature on Englewood				\$519,323.98	Large stormwater quality feature intercepting stormwater outfall that current lets out into Williamson Creek.
General Conditions				\$51,331.76	Section to be used when Asakura Robinson is the Prime.
Mobilization		LS	5%	\$13,082.35	5% of Project Subtotal
Stabilized Construction Access	300	SY	\$15.00	\$4,500.00	
SWPPP maintenance	8	Month	\$8.00	\$64.00	
Safety and PPE	8	LS	\$500.00	\$4,000.00	
Job Site Supervision	96	WK	\$100.00	\$9,600.00	projected job duration in weeks
Job Site Fencing and Gate	3,000	LF	\$3.80	\$11,400.00	Perimeter only
Bond		LS	0.15%	\$392.47	0.15% of Project Subtotal
Insurance		LS	2%	\$5,232.94	2% of Project Subtotal
Fencing Screen	1,200	LF	\$2.00	\$2,400.00	
Fence Sand Bags	120	EA	\$5.50	\$660.00	1 per 10 LF
Tree Protection Fencing				\$4,000.00	
Temporary Chainlink fence	1,000	LF	\$3.00	\$3,000.00	5' ht. per details, with sandbags for stability
Arborist/Forester consultation	8	Month	\$125.00	\$1,000.00	
Demolition				\$22,881.11	
Storm Inlet Removal	1	EA	\$500.00	\$500.00	
Small Drain/Inlet Removal	1	EA	\$250.00	\$250.00	
Manhole Removal	1	EA	\$500.00	\$500.00	
Tree Removal	2	EA	\$10.00	\$20.00	Invasive Species only
Clearing and grubbing of vegetation	30,000	SF	\$0.35	\$10,500.00	
Soil Removal	1,111	CY	\$10.00	\$11,111.11	
Grading /Drainage				\$185,888.89	
Site Grading	30,000	SF	\$3.10	\$93,000.00	

OPINION OF PROBABLE COSTS - AREA 3 - TIER 3 (CONTINUED)

Site Grading	30,000	SF	\$3.10	\$93,000.00	
Landscape Area Drains	2	EA	\$2,000.00	\$4,000.00	Civil to provide connections
Bioinfiltration Media	1,111	CY	\$80.00	\$88,888.89	
Planting				\$255,222.22	
Ornamental Grass	8,100	EA	\$25.00	\$202,500.00	1 Gal. mix of grasses and perennials- must meet ECM diversity requirements
Mulch	278	CY	\$65.00	\$18,055.56	3"
Top Soil Fine Grading	333	CY	\$65.00	\$21,666.67	4"
Irrigation	4	ZN	\$2,500.00	\$10,000.00	
Irrigation Meter	1	EA	\$3,000.00	\$3,000.00	2" meter

DISCLAIMER ON THE OPINION OF PROBABLE CONSTRUCTION COST

This opinion of probable construction cost is made on the basis of Asakura Robinson's experience and qualifications, and represents Asakura Robinson's best judgment as an experienced and qualified professional generally familiar with the industry. However, since Asakura Robinson has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Asakura Robinson cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by Asakura Robinson.

Appendix D ALL TOOLKIT ITEMS



Wildflower Planting
Sembrar de Plantas Silvestres

Planting native wildflowers and grasses that are native to central Texas. These native species provide habitat and food for urban wildlife, such as monarch butterflies and pollinator bee populations.

Sembrar flora nativa de Texas. Estas especies nativas proveen hábitat y comida para la vida silvestre urbana, como las mariposas monarcas y abejas polinizadoras.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (High)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Medium)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Medium)
- Reduces Erosion | ¿Reduce la Erosión? (Medium)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Medium)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (Medium)
- Accessibility | ¿Accesibilidad? (Medium)
- Size | Tamaño (Medium)

Pairs well with... / Va bien con...

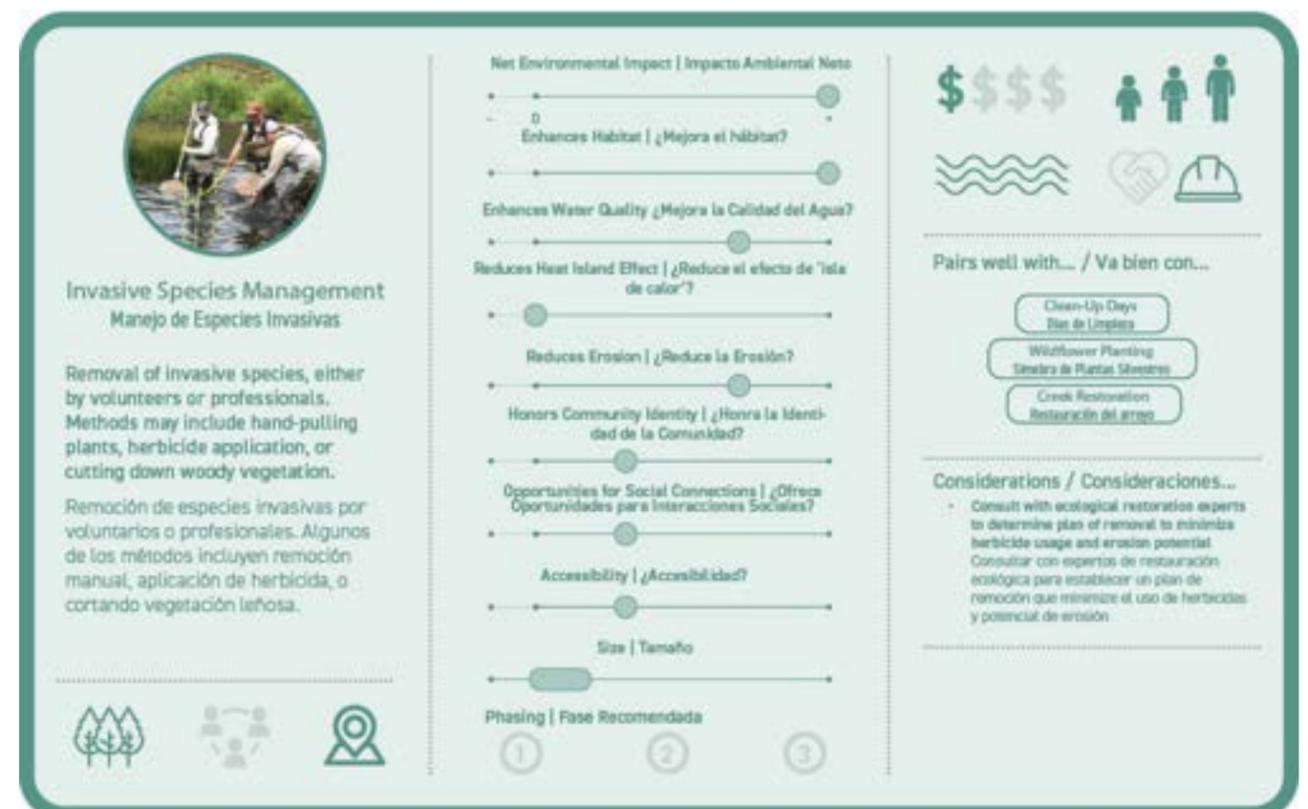
- Invasive Species Management | Manejo de Especies Invasivas
- Creek Restoration | Restauración del Arroyo
- Community Garden | Jardín de la Comunidad

Considerations / Consideraciones...

- Vacant lots are ideal candidates for wildflower meadow planting. Los parcelas vacantes son buenas candidatas para praderas de plantas silvestres.
- Meadows require maintenance, especially in the years immediately after planting.

"Plant wildflowers along the creek"
"Sembrar plantas silvestres a lo largo del arroyo"

Phasing | Fase Recomendada: 1, 2, 3



Invasive Species Management
Manejo de Especies Invasivas

Removal of invasive species, either by volunteers or professionals. Methods may include hand-pulling plants, herbicide application, or cutting down woody vegetation.

Remoción de especies invasivas por voluntarios o profesionales. Algunos de los métodos incluyen remoción manual, aplicación de herbicida, o cortando vegetación leñosa.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (High)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Medium)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Medium)
- Reduces Erosion | ¿Reduce la Erosión? (Medium)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Medium)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (Medium)
- Accessibility | ¿Accesibilidad? (Medium)
- Size | Tamaño (Medium)

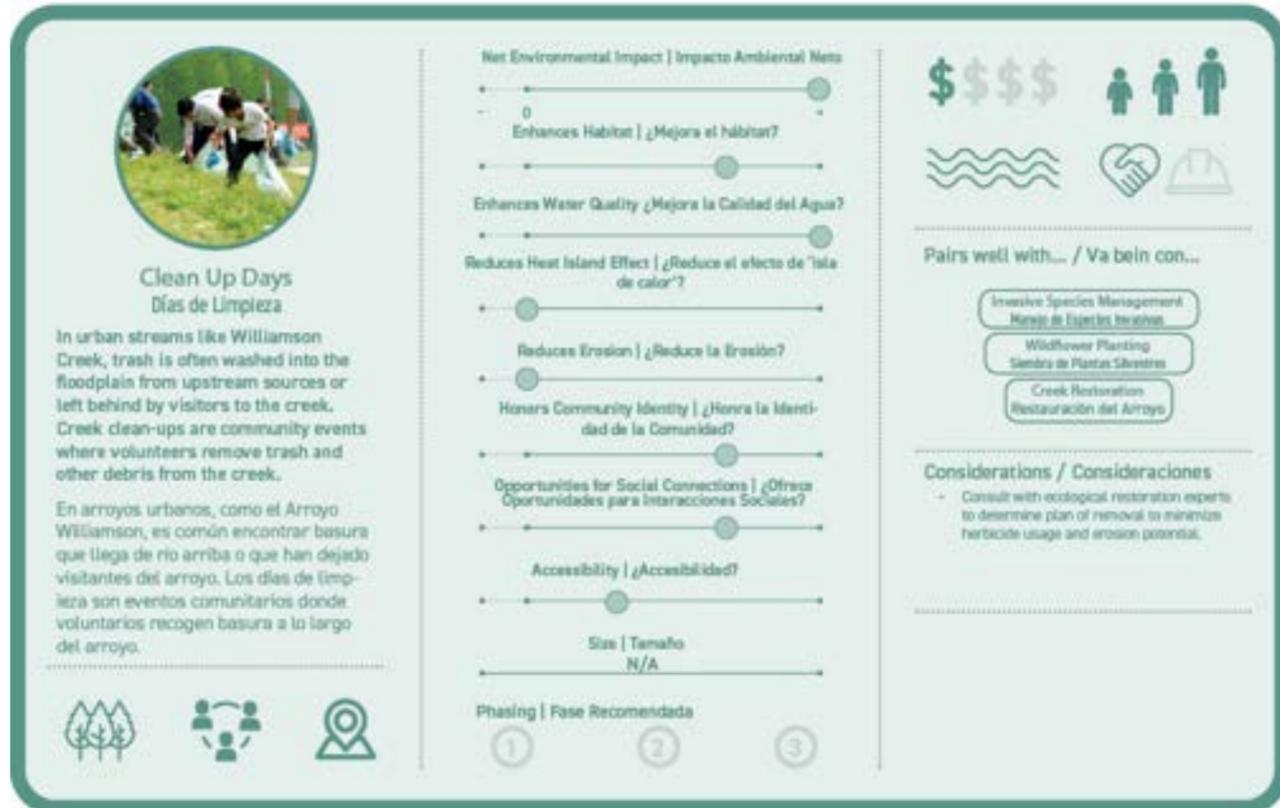
Pairs well with... / Va bien con...

- Clean-Up Days | Días de Limpieza
- Wildflower Planting | Sembrar de Plantas Silvestres
- Creek Restoration | Restauración del Arroyo

Considerations / Consideraciones...

- Consult with ecological restoration experts to determine plan of removal to minimize herbicide usage and erosion potential. Consultar con expertos de restauración ecológica para establecer un plan de remoción que minimice el uso de herbicidas y potencial de erosión.

Phasing | Fase Recomendada: 1, 2, 3



Clean Up Days
Días de Limpieza

In urban streams like Williamson Creek, trash is often washed into the floodplain from upstream sources or left behind by visitors to the creek. Creek clean-ups are community events where volunteers remove trash and other debris from the creek.

En arroyos urbanos, como el Arroyo Williamson, es común encontrar basura que llega de río arriba o que han dejado visitantes del arroyo. Los días de limpieza son eventos comunitarios donde voluntarios recogen basura a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (High)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Medium)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Medium)
- Reduces Erosion | ¿Reduce la Erosión? (Medium)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Medium)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (Medium)
- Accessibility | ¿Accesibilidad? (Medium)
- Size | Tamaño (N/A)

Pairs well with... / Va bien con...

- Invasive Species Management | Manejo de Especies Invasivas
- Wildflower Planting | Sembrar de Plantas Silvestres
- Creek Restoration | Restauración del Arroyo

Considerations / Consideraciones

- Consult with ecological restoration experts to determine plan of removal to minimize herbicide usage and erosion potential.

Phasing | Fase Recomendada: 1, 2, 3



Creek Restoration
Restauración del Arroyo

Work done to improve the environmental health of Williamson Creek in support of biodiversity, recreation, flood management, and habitat.

Trabajo para mejorar la salud ambiental del Arroyo Williamson para proteger la biodiversidad, recreación, manejo de inundaciones, y hábitats que se encuentran a lo largo del mismo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (High)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Medium)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Medium)
- Reduces Erosion | ¿Reduce la Erosión? (Medium)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Medium)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (Medium)
- Accessibility | ¿Accesibilidad? (Medium)
- Size | Tamaño (Medium)

Pairs well with... / Va bien con...

- Clean-Up Days | Días de Limpieza
- Invasive Species Management | Manejo de Especies Invasivas
- Wildflower Planting | Sembrar de Plantas Silvestres

Considerations / Consideraciones

- Consult with ecological restoration experts to determine plan for restoration. Consultar con expertos de restauración ecológica para establecer un plan de restauración.

"Erosion has made fencing fall down"
"La erosión ha causado que cercas se caigan."

Phasing | Fase Recomendada: 1, 2, 3



Equipment Sheds Casetas de equipo

Equipment sheds may hold tools for invasive species removal and community gardening.
Las casetas de equipo pueden guardar herramientas de jardines comunitarios y para la remoción de especies invasivas.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0)
- Reduces Erosion | ¿Reduce la Erosión? (0)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0)
- Accessibility | ¿Accesibilidad? (0)
- Size | Tamaño (0)

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Invasive Species Management | Manejo de Especies Invasivas
- Community Gardens | Jardines Comunitarios

Considerations / Consideraciones

- Can be designed to minimize environmental impact. Puede ser diseñado para minimizar impactos ambientales.



Green Infrastructure Infraestructura Verde

Green infrastructure, which includes features like rain gardens, bioswales, and permeable pavement, is a way to filter polluted stormwater and infiltrate it into the ground before it washes into Williamson Creek.
La infraestructura verde, incluyendo herramientas como jardines de agua, "bioswales," y pavimento permeable, es una manera de filtrar agua de lluvia contaminada antes de que llegue al Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0)
- Reduces Erosion | ¿Reduce la Erosión? (0)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0)
- Accessibility | ¿Accesibilidad? (N/A)
- Size | Tamaño (0)

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Parking Lots | Estacionamientos
- public bathrooms | Baños Públicos
- equipment sheds | Casetas de Equipo

Considerations / Consideraciones

- Green infrastructure should be strategically located to minimize impact of parking lots and other structures on the environment. La infraestructura verde debe ser localizada estratégicamente para minimizar el impacto a estacionamientos y otras estructuras en el ambiente.



Educational Programming Programación Educativa

Immersive educational experiences that seek to educate children and adults about Williamson Creek and Austin's ecological systems.
Experiencias educativas de inmersión que buscan educar a niños y adultos sobre el sistema ecológico de el Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0)
- Reduces Erosion | ¿Reduce la Erosión? (0)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0)
- Accessibility | ¿Accesibilidad? (0)
- Size | Tamaño (N/A)

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Invasive Species Management | Manejo de Especies Invasivas
- outdoor classrooms | Aulas al Aire Libre
- Creek Restoration | Restauración del arroyo

Considerations / Consideraciones

- Programming may be coordinated with PARD, or local schools. Programación puede ser coordinada con PARD, o escuelas locales.



Water Storage Almacenamiento de Agua

Water storage installations, such as rain barrels or underground cisterns, that are used to store water stormwater that runs off roofs or other surfaces during a rainfall.
Instalaciones de almacenamiento de agua, tales como barriles de agua o cisternas bajo la tierra, que se utilizan para almacenar agua de lluvia que baja de los tejados u otras superficies durante lluvias.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0)
- Reduces Erosion | ¿Reduce la Erosión? (0)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0)
- Accessibility | ¿Accesibilidad? (N/A)
- Size | Tamaño (0)

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Parking Lots | Estacionamientos
- public bathrooms | Baños Públicos
- equipment sheds | Casetas de Equipo

Considerations / Consideraciones

- Water storage should be paired with structures and parking lots to reduce stormwater runoff into the creek. Almacenamientos del agua deben ir a la par con estructuras y estacionamientos para reducir las escorrentías de lluvias hacia el arroyo.



Wildlife Crossing Cruce de Vida Silvestre

Wildlife crossings provide places for both water and the smallest animals such as insects, reptiles and amphibians to cross concrete sidewalks.

Los cruces de vida silvestre proveen espacio para agua y animales pequeños, tales como insectos, reptiles y anfibios, a que crucen banquetas.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

N/A

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$

People icons

Water, Heart, Hard Hat icons

Pairs well with... / Va bien con...

Trails
Veredas/Caminos

Creek Restoration
Restauración del Arroyo

Considerations / Consideraciones



Dual-Track Trail Veredas con Pistas Duales

Dual-Track Trails separate pedestrian tracks and bicycle tracks to minimize accidents. This type of separation is most appropriate in high-traffic areas.

Veredas con pistas duales separan a peatones de ciclistas para minimizar accidentes. Esta separación es apropiada en lugares de alto tráfico.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$

People icons

Water, Heart, Hard Hat icons

Pairs well with... / Va bien con...

gathering spaces
Espacios de Reunión

Benches
Bancos

outdoor fitness equipment
Equipo de Gimnasio al Aire Libre

Considerations

- Dual track trails should be paired with great infrastructure to minimize their impact to the environment. Veredas con pistas duales van bien con infraestructura verde para minimizar su impacto al ambiente.

"It would be awesome if there were a hike/bike trail that went along the creek."
Sería increíble tener una vía de caminata/ciclismo a lo largo del arroyo."



Pollinator Nesting Boxes Cajas de Nidos para Polinizadores

Many nesting bee species in build nests in aboveground cavities or tunnels in wood or plant stems. Pollinator Nesting Boxes provide nesting resources to bees through the use of hollow bamboo rods or drilled holes in wood.

Muchas especies de abejas crean sus colonias en nidos pre-construidos sobre la tierra, o en tuneles de madera o tallos de plantas. Las Cajas de Nidos para Polinizadores proveen nidos para abejas usando bambú hueco o tubos de madera huecos.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

N/A

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$

People icons

Water, Heart, Hard Hat icons

Pairs well with... / Va bien con...

Wildflower Planting
Siembra de Plantas Silvestres

Considerations / Consideraciones

- These boxes can be hand-made by the community or bought. Estos cajones pueden ser creados a mano por la comunidad o comprados.

"Add Pollinator Nesting Boxes to help Native Bees. Potentially Sponsored by a local business or individuals"
Añadir cajas de nidos para Polinizadores para ayudar a las abejas nativas. Potencialmente auspiciadas por comercios locales o individuos."



Bonded Mulch Trail Vereda con Mantillo Unido

Bonded mulch trails are aggregated wood mulch held together by a binding material. This surface is soft, natural, flood-resilient, and allows water to flow through its surface.

Veredas con mantillo son agregados de madera que se mezclan con un agente adhesivo para hacer un material resistente. Esta superficie es suave, natural, resistente a inundaciones, y permite que el agua pase por su superficie.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$

People icons

Water, Heart, Hard Hat icons

Pairs well with... / Va bien con...

gathering spaces
Espacios de Reunión

Benches
Bancos

creek restoration
Restauración del Arroyo

outdoor fitness equipment
Equipo de Gimnasio al Aire Libre

Considerations / Consideraciones

- Bonded mulch is ADA-compliant. Estas veredas pueden ser accesibles para personas con discapacidad (ADA).
- Bonded mulch trails require occasional maintenance and re-surfacing. Estas veredas necesitan mantenimiento ocasional.

"It would be awesome if there were a hike/bike trail that went along the creek."
Sería increíble tener una vía de caminata/ciclismo a lo largo del arroyo."



ASPHALT TRAIL Vereda de Asfalto

Asphalt Trails provide opportunities for hiking, biking, and wheelchair access along Williamson Creek.
Veredas de asfalto proveen acceso al Arroyo Williamson a través de caminatas, ciclismo, y a personas en sillón de ruedas.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- GATHERING SPACES / Espacios de Reunión
- BENCHES / Bancos
- OUTDOOR FITNESS EQUIPMENT / Equipo de Gimnasio al Aire Libre

Considerations / Consideraciones

- Asphalt trails should be paired with green infrastructure to minimize their impact to the environment. Las veredas de asfalto van bien con infraestructura verde para minimizar su impacto al ambiente.

"IT WOULD BE AWESOME IF THERE WERE A HIKE/BIKE TRAIL THAT WENT ALONG THE CREEK."
Sería increíble tener una vía de caminata/ciclismo a lo largo del arroyo."



Natural Trail Vereda Natural

Natural trails do not have any paved or aggregate surfacing. They are typically mowed grass or bare soil, and may be covered in a layer of mulch or other decomposable material.
Las veredas naturales no tienen superficies pavimentadas u agregadas. Usualmente son grama cortada o tierra, y pueden ser cubiertas por una capa fina de mantillo o material que se descompone.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- gathering spaces / Espacios de Reunión
- BENCHES / Bancos
- stream restoration / Restauración del Arroyo
- outdoor fitness equipment / Equipo de Gimnasio al Aire Libre

Considerations / Consideraciones

- Natural trails may be eroded during flood events. Las veredas naturales pueden ser erosionadas durante periodos de inundaciones.

"Connect to patchwork lots via the Richmond trib. On these shady lots, we could do a 'figure 8' mulch trail, focus on biodiversity, install benches." "Conectar propiedades a lo largo del tributario Richmond. En estos espacios con sombra se podrá hacer una 'figura 8' con mantillo, enfocarse en la biodiversidad, e instalar bancos."



Concrete Trail Vereda de Cemento

Concrete trails provide opportunities for hiking, biking, and wheelchair access along Williamson Creek.
Las veredas de cemento proveen oportunidades para caminatas, ciclismo, y acceso a sillones de ruedas a lo largo del Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- gathering spaces / Espacios de Reunión
- BENCHES / Bancos
- outdoor fitness equipment / Equipo de Gimnasio al Aire Libre

Considerations / Consideraciones

- Concrete trails should be paired with green infrastructure to minimize their impact to the environment. Las vías permeables van bien con infraestructura verde para minimizar el impacto al ambiente.

"PARD has used brown permeable concrete for trails where flooding occurs." "PARD ha usado concreto permeable para vías inundables."



Parking Estacionamiento

Parking lots provide vehicular access to trailheads, gathering spaces, and other areas of interest along the trail.
Estacionamientos proveen acceso vehicular a las entradas de los caminos, espacios de reunión, y otras áreas de interés a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0)
- Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?
- Reduces Erosion | ¿Reduce la Erosión?
- Honors Community Identity | ¿Honra la Identidad de la Comunidad?
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?
- Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Green Infrastructure / Infraestructura Verde

Considerations / Consideraciones

- Parking should be paired with green infrastructure to capture stormwater runoff and prevent it from washing into the creek. Estacionamientos van a lo par con infraestructura verde para capturar escorrentías y prevenir que las mismas lleguen al arroyo.

"There is nowhere to dispose of trash or park. Recommend small parking lot here." "No hay donde tirar la basura o estacionarse. Recomendar un pequeño estacionamiento aquí."



On-Street Bike Lanes Carril de bicicletas en la calle

Bike lanes may be placed along roads that access Williamson Creek to provide safe routes of travel for bicyclists from other neighborhoods or major thoroughfares to the Greenway.

Carriles de bicicletas pueden ser incorporados a lo largo de las carreteras que accesan al Arroyo Williamson para proveer rutas seguras de viaje para ciclistas de otros vecindarios o vías mayores de la Cinta Verde.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

Green Infrastructure
Infraestructura Verde

Considerations / Consideraciones

- Bike lanes should connect OWCG to adjacent trails and the neighborhood. Carriles de bicicletas deben conectar OWCG a otras vías y vecindarios.

"There's a plan to create a trail following an old rail line starting here, could be a great reason to get a sidewalk/bicycle path extension along Vinson to connect that trail and the greenway!" "Hay un plan para crear una vía a lo largo de la línea del tren comenzando aquí, que sería una buena razón para tener una vía de peatones/ciclistas a lo largo de Vinson que conecta esa vía con la cinta verde!"

\$\$\$\$\$

People icons

Water icon

Heart icon

Hard hat icon



Low Water Crossing Cruce bajo de aguas

Low water crossings provide a bridge across bodies of water for pedestrian and bike access when water levels are low, however, they are designed to allow water to flow over them during a rainstorm or flood event.

Un cruce bajo de agua provee un puente para peatones y ciclistas a través de cuerpos de agua que son bajos. No obstante están diseñados para que el agua corra sobre los mismos en eventos de inundaciones o lluvias.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

Trails
Veredas / Caminos

Considerations / Consideraciones

- Low water crossings can act as dams during flood events, causing build-up of trash and debris. Cruces bajos de agua pueden convertirse en diques durante eventos de inundaciones, causando bloques con basura y escombros.

"Need bridges to make the pathway easily traversable" "Se necesitan puentes para que la vía se pueda atravesar fácilmente."

\$\$\$\$\$

People icons

Water icon

Heart icon

Hard hat icon



Land Acquisition Adquisición de tierras

Land Acquisition is the process of acquiring property or pieces of property adjoining the creek to create a continuous greenway trail or to create additional public open space.

Adquisición de tierras es el proceso de adquirir propiedades o parte de propiedades para crear una cinta verde continua o crear espacios públicos adicionales.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

Trails
Veredas / Caminos

Considerations / Consideraciones

- Work with PARO to make recommendations on land acquisition. Trabaja con PARO para hacer recomendaciones de adquisición de tierras.

"There is an abandoned/unused business space right now that has available parking and access to the trail...parks should purchase this space." "Hay un comercio abandonado/sin usar ahora mismo que tiene estacionamiento disponible y acceso a la vía... [el departamento de] parques debería comprar este espacio."

\$\$\$\$\$

People icons

N/A

Heart icon

Hard hat icon



Weather Warning Signage Letreros de advertencia del clima

Warning signage and system regarding flash flooding and greenway access.

Letreros de advertencia sobre inundaciones repentinas y acceso a la vía verde.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

Trailhead
Entrada a la vereda/camino

Considerations / Consideraciones

- Can be a general sign or as complex as an updated series of warnings. Puede ser un letrero o una serie de advertencias.

"Need a warning system for people in the greenway when storms are expected." "Se necesita una sistema de advertencia para la gente que este en la cinta verde cuando se esperan tormentas."

\$\$\$\$\$

People icons

Water icon

Heart icon

Hard hat icon



Labyrinth Laberinto

A labyrinth is a curving pathway that winds in concentric circles to a central point. Walking into and out of a labyrinth can be a relaxing, contemplative exercise.

Un laberinto es un camino curvo que lleva a un punto céntrico a través de círculos. Caminar por un laberinto puede ser un ejercicio contemplativo y de relajación.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$

Context Dependant

Pairs well with... / Va bien con...

Gathering Spaces
Espacios de Reunión

Wildflower Plantings
Siembra de Plantas Silvestres

Considerations / Consideraciones

- Labyrinths can be made by community members with stones and other materials found in the floodplain. Los miembros de la comunidad pueden crear los laberintos utilizando piedras y otros materiales de la zona inundable.

"It might be cool to have a labyrinth"
"Sería divertido tener un laberinto"



Music Groves Espacios musicales

Music groves may be created in collaboration with the Red Leaf School of Music as a place for their students and other members of the public to practice their instruments in an outdoor setting. These may include seating and shade. Se podrían crear espacios musicales en colaboración con la Escuela de Música Red Leaf donde los estudiantes de la escuela y otros en la comunidad puedan practicar sus instrumentos al aire libre. El lugar puede incluir lugares con sombra para sentarse.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$

Context Dependant

Pairs well with... / Va bien con...

Trails
Veredas/Caminos

Considerations / Consideraciones

- Music groves can be made in collaboration with the Red Leaf School of Music or other educational institution. Los espacios musicales pueden hacerse en colaboración con la Escuela de Música Red Leaf u otra institución educativa.



Gathering Spaces Espacios de Reunión

Gathering spaces provide places for community members to relax, picnic, and spend time with friends and family. They may include benches, shade structures, outdoor tables, games, or other design features that inspire connection. Espacios de reunion proveen lugares donde miembros de la comunidad pueden relajarse, hacer picnic, y pasar tiempo con familia y amigos. Estos pueden incluir bancos, estructuras en la sombra, mesas al aire libre, juegos, y otros atractivos que inspiren conexiones.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$ to \$\$\$\$\$

Context Dependant

Pairs well with... / Va bien con...

Labyrinth
Laberinto

Trails
Veredas/Caminos

Considerations / Consideraciones

- Gathering spaces with concrete pads and shade structures can be paired with water storage or green infrastructure to minimize environmental impact. Espacios de reunión con pisos de cemento y tejado pueden tener estructuras para almacenamiento de agua o infraestructura verde para minimizar el impacto ambiental.



Shaded Picnic Areas Área de Picnic con Sombra

Groups of picnic tables provide an opportunity for large gatherings or small groups to enjoy meals outdoors together.

Grupos de mesas de picnic proveen oportunidad de compartir para grupos grandes o pequeños.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$\$\$ to \$\$\$\$\$

Context Dependant

Pairs well with... / Va bien con...

Gathering Spaces
Espacios de Reunión

Benches
Bancos

Signage
Letreros

Community Message Boards
Tableros de Mensajes Comunitarios

Educational Programming
Programación Educativa

Considerations / Consideraciones

- Shaded Picnic Areas should always be paired with trash cans, and should be wheelchair accessible. Las áreas de picnic en sombra pueden tener cestos de basura, y deben ser accesibles para personas en sillas de ruedas.



Hammock Grove Área de Hamacas

Hammock Groves are designated trees or poles where visitors to Williamson Creek can set up their own hammocks to relax and swing.

Áreas de hamacas son áreas de árboles o postes donde los visitantes del Arroyo Williamson pueden colocar sus hamacas para mecerse y relajarse.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0 to 10)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0 to 10)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0 to 10)
- Reduces Erosion | ¿Reduce la Erosión? (0 to 10)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0 to 10)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0 to 10)
- Accessibility | ¿Accesibilidad? (0 to 10)
- Size | Tamaño (0 to 10)

Phasing | Fase Recomendada

1 2 3

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Community Gardens / Jardines comunitarios

Considerations / Consideraciones

- While hammocks can not be placed permanently in parks, community members can bring their own or set up a hammock-share program. A pesar de que las hamacas no pueden ser instaladas permanentemente en los parques, los vecinos pueden traer las suyas o establecer un programa de compartir hamacas.



Community Message Boards Tablero de Mensajes Comunitarios

A community message board may be a small, enclosed bulletin board placed in high-traffic areas to provide a place for community members to advertise community events along Williamson Creek.

El tablero de mensajes comunitario puede ser un tablón cerrado de anuncios pequeño colocado en un área de mucho tráfico para que los vecinos puedan promocionar eventos comunitarios a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0 to 10)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0 to 10)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0 to 10)
- Reduces Erosion | ¿Reduce la Erosión? (0 to 10)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0 to 10)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0 to 10)
- Accessibility | ¿Accesibilidad? (0 to 10)
- Size | Tamaño (0 to 10)

Phasing | Fase Recomendada

1 2 3

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Trails / Vías / Caminos
- Signage / Letreros

Considerations / Consideraciones

- Community message boards should be placed along trails in high-traffic areas. Los tableros comunitarios de mensajes deben ser colocados a lo largo del camino en áreas de mucho tráfico.



Benches Bancos

A bench is a long seat on which multiple people may sit at the same time. They may be placed along the trail to provide places to rest, or at playgrounds and other gathering spaces.

Un banco es un asiento largo donde múltiples personas se pueden sentar al mismo tiempo. Se pueden colocar a lo largo del camino para proveer lugares de descanso, o en parques y otros lugares de encuentro.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0 to 10)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0 to 10)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0 to 10)
- Reduces Erosion | ¿Reduce la Erosión? (0 to 10)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0 to 10)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0 to 10)
- Accessibility | ¿Accesibilidad? (0 to 10)
- Size | Tamaño (0 to 10)

Phasing | Fase Recomendada

1 2 3

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Trails / Vías / Caminos
- Signage / Letreros

Considerations / Consideraciones

- Benches can be designed to be a form of public art. Los bancos pueden ser diseñados para ser una forma de arte público.



Public Art Arte Pública

Outdoor public art varies, but may be sculptures, artistic benches, or other installations that enhance the identity of the Williamson Creek community and fosters community pride and a sense of belonging.

El tablero de mensajes comunitario puede ser un tablón cerrado de anuncios pequeño colocado en un área de mucho tráfico para que los vecinos puedan promocionar eventos comunitarios a lo largo del arroyo.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (0 to 10)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (0 to 10)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (0 to 10)
- Reduces Erosion | ¿Reduce la Erosión? (0 to 10)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (0 to 10)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (0 to 10)
- Accessibility | ¿Accesibilidad? (0 to 10)
- Size | Tamaño (0 to 10)

Phasing | Fase Recomendada

1 2 3

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Creek Restoration / Restauración del Arroyo
- Wildflower Planting / Siembras de plantas silvestres
- Benches / Bancos

Considerations / Consideraciones

- Public art may be coordinated with Austin's AIPP (Art in Public Places) program. Arte pública puede ser coordinada con el programa de AIPP (Art in Public Places).

"Would love to see Art from local artist along the trail."
"Me encantaría ver arte de artistas locales a lo largo del camino."



Community Gardens Jardines Comunitarios

Community Gardens in the floodplain of Williamson Creek will provide a place for neighbors to grow food. This may be especially important for those living in multi-family apartment complexes without access to outdoor space to have their own gardens. Jardines comunitarios en la zona de inundaciones del Arroyo Williamson puede proveer un lugar donde los vecinos pueden sembrar comida. Esto puede ser importante para aquellos que viven en departamentos multifamiliares sin acceso a espacios al aire libre y que no pueden tener sus propios jardines.



Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$ to \$

People icons

Context Dependent icons

Pairs well with... / Va bien con...

- Public Art / Arte Pública
- Benches / Bancos
- Gathering Spaces / Espacios de Reunión

Considerations / Consideraciones

- Community gardens should be placed so they are easily accessible by local neighborhoods. Los jardines comunitarios deben ser accesibles a los vecindarios locales.

"If people push hard enough for community gardens, these two areas are good for urban farming"

"Si la gente genera presión, estas dos áreas son buenas para jardines comunitarios y agricultura urbana."



Outdoor Classrooms Aulas al Aire Libre

Outdoor classrooms are gathering spaces where either children or adults can gather in a group setting to learn, listen, and interact with the environment. Aulas al aire libre son espacios de encuentro donde niños o adultos se pueden encontrar en grupos para aprender, escuchar, e interactuar con el medio ambiente.



Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$ to \$

People icons

Context Dependent icons

Pairs well with... / Va bien con...

- Benches / Bancos
- Public Art / Arte Pública
- Music Groves / Espacios Musicales
- Educational Programming / Programación Educativa

Considerations / Consideraciones

- Outdoor classrooms can be created in collaboration with local schools or other educational institutions. Aulas al aire libre pueden ser creadas en colaboración con escuelas locales u otras instituciones educativas.



Nature Play Juego Natural

Nature playgrounds are children's play areas created using natural elements, which may include boulders, sticks, and stumps, water, sand, and structures made from natural materials. Children are encouraged to use these materials to build, explore, play, and develop fine motor skills. Parques naturales son áreas de juego de niños creadas usando elementos naturales, tales como rocas, troncos de árboles, agua, arena, y estructuras construidas con materiales naturales. Se exhorta a que los niños usen estos materiales para crear, explorar, jugar, y desarrollar habilidades motoras.



Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$ to \$

People icons

Context Dependent icons

Pairs well with... / Va bien con...

- Public Art / Arte Pública
- Benches / Bancos
- Gathering Spaces / Espacios de Reunión
- Community Gardens / Jardines Comunitarios

Considerations / Consideraciones

- Nature play areas can be created using materials from Central Williamson Creek. Lugares de juego natural pueden ser creados usando materiales del Arroyo Williamson.

"Playground in this open area"

"Parques en esta área abierta."



Bathroom Facilities Baños

Outdoor bathroom facilities are small structures that contain toilets. They are often located in high-traffic areas or at trailheads. Baños exteriores son pequeñas estructuras que proporcionan inodoros. Usualmente se encuentran en áreas de alto tráfico o en la entrada de caminos.



Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de 'isla de calor'?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

1 2 3

\$\$\$ to \$

People icons

Context Dependent icons

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Showers / Duchas
- Lockers / Casilleros

Considerations / Consideraciones

- Bathroom facilities should be paired with green infrastructure to minimize their impact to the environment. Baños pueden ser desarrollados con infraestructura verde para minimizar el impacto al ambiente.

Signage Letreros

Signs provide wayfinding and educational information about the environment to visitors. Letreros proveen direcciones e información educativa sobre el ambiente a visitantes.




Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada 1 2 3

Pairs well with... / Va bien con...

- Trails / Veredas / Caminos
- Gathering Spaces / Espacios de Reunión
- Benches / Bancos

Considerations / Consideraciones

- Signs should be placed in high-traffic areas. Letreros deben ser colocados en áreas de alto tráfico.

"Need signage that is a public entrance."
"Necesita letreros que digan que es una entrada pública."

Public Showers Duchas Públicas

Public showers are small structures that contain running, hot water and private shower areas. They may be located in high-traffic areas or at trailheads. Duchas públicas son pequeñas estructuras que tienen agua potable caliente y áreas privadas para ducharse. Pueden colocarse en áreas de alto tráfico o en las entradas al camino.




Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada 1 2 3

Pairs well with... / Va bien con...

- Lockers / Casilleros
- Bathroom Facilities / Baños

Considerations / Consideraciones

- Public showers should be paired with green infrastructure to minimize their impact to the environment. Duchas públicas pueden ser desarmadas con infraestructura verde para minimizar el impacto al ambiente.

Trash Cans Cestos de Basura

Trash cans are receptacles for visitors to Williamson Creek to place any refuse so that it does not pollute the waterway. Cestos de basura son receptáculos donde los visitantes del Arroyo Williamson pueden colocar sus desperdicios y no contaminar el arroyo.




Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada 1 2 3

Pairs well with... / Va bien con...

- Gathering Spaces / Espacios de Reunión
- Benches / Bancos
- Community Gardens / Jardines Comunitarios

Considerations / Consideraciones

- Trash cans should be placed at trailheads and at gathering spaces. Cestos de basura deben ser colocados a lo entrada de los caminos y en espacios de reunión.

"Trash cans at other entry points along greenway are needed."
"Se necesitan cestos de basura en otros puntos de entrada a la vía."

Lockers Casilleros

Public lockers provide a place for storage of personal belongings along the trail, and may be especially useful for people experiencing homelessness. Casilleros públicos proveen un lugar para almacenar artículos personales a lo largo del camino, y pueden ser muy útiles para individuos que no tiene vivienda.




Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

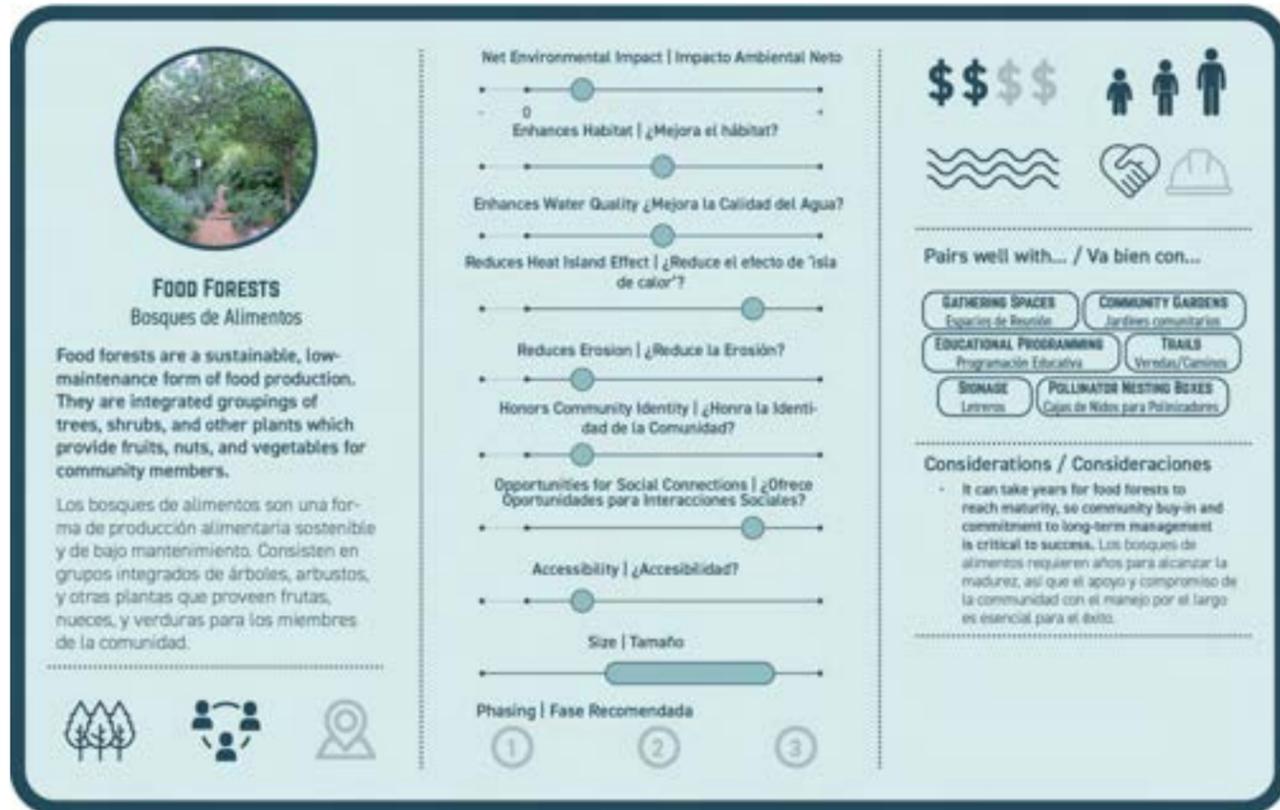
Phasing | Fase Recomendada 1 2 3

Pairs well with... / Va bien con...

- Bathroom Facilities / Baños Públicos
- Public Showers / Duchas Públicas
- Gathering Spaces / Espacios de Reunión
- Outdoor Fitness equipment / Equipo de Gimnasio al Aire Libre

Considerations / Consideraciones

- Lockers should be paired with green infrastructure to minimize their impact to the environment. Casilleros pueden ser complementados con infraestructura verde para minimizar impactos al ambiente.



FOOD FORESTS
Bosques de Alimentos

Food forests are a sustainable, low-maintenance form of food production. They are integrated groupings of trees, shrubs, and other plants which provide fruits, nuts, and vegetables for community members.

Los bosques de alimentos son una forma de producción alimentaria sostenible y de bajo mantenimiento. Consisten en grupos integrados de árboles, arbustos, y otras plantas que proveen frutas, nueces, y verduras para los miembros de la comunidad.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- GATHERING SPACES | Espacios de Reunión
- COMMUNITY GARDENS | Jardines comunitarios
- EDUCATIONAL PROGRAMMING | Programación Educativa
- TRAILS | Veredas/Caminos
- SIGNAGE | Letrero
- POLLINATOR NESTING BOXES | Cajas de Nidos para Polinizadores

Considerations / Consideraciones

- It can take years for food forests to reach maturity, so community buy-in and commitment to long-term management is critical to success. Los bosques de alimentos requieren años para alcanzar la madurez, así que el apoyo y compromiso de la comunidad con el manejo por el largo es esencial para el éxito.



Outdoor Fitness Equipment
Equipo de Gimnasio al Aire Libre

Outdoor fitness equipment helps community members be active and combat health risks associated with overweight and obesity by providing outdoor fitness activity installations.

Equipo de Gimnasio al Aire Libre ayuda a los miembros de la comunidad a ser activos y combatir riesgos de salud asociados a la obesidad al proveer instalaciones para ejercicios al aire libre.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Skatable Areas | Área de Patinar
- Trails | Veredas / Caminos

Considerations / Consideraciones

- Select a range of fitness equipment that is accessible to youth, adults, and seniors. Seleccionar variedad de equipo de ejercicios que sean accesibles a jóvenes, adultos, y mayores de edad.



Skatable Areas
Áreas de Patinar

Skateable areas may include skate parks or other features meant to be used on skateboards, rollerblades, and rollerskates.

Las áreas de patinaje pueden incluir parques de patinaje u otras estructuras para ser utilizadas por patines y patinetas.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

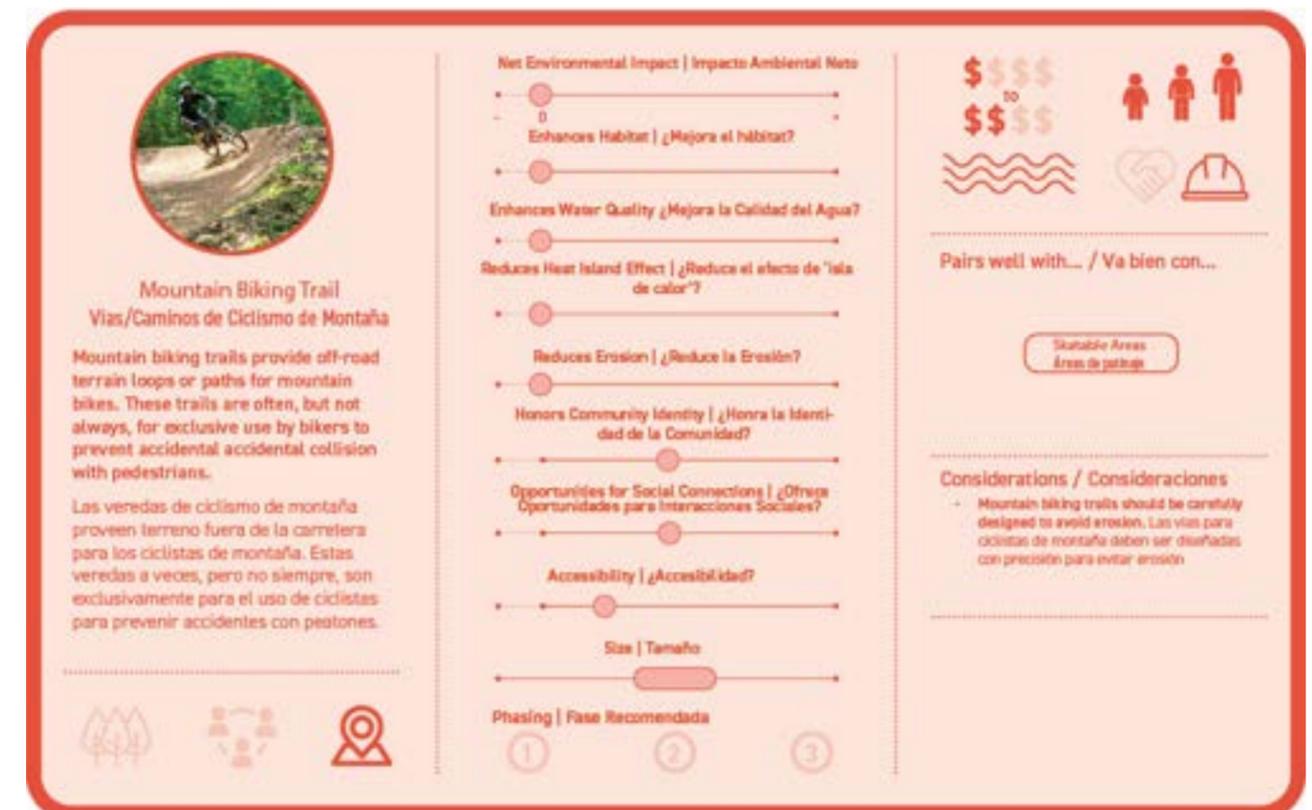
Pairs well with... / Va bien con...

- Outdoor Fitness Equipment | Equipo de Gimnasio al Aire Libre
- Gathering Spaces | Espacios de Reunión
- Green Infrastructure | Infraestructura Verde

Considerations / Consideraciones

- Skateable areas should be paired with green infrastructure to minimize environmental impact. Áreas de patinaje parecen con infraestructura verde para minimizar impactos al ambiente.
- Opportunity to enhance existing channel for both stormwater and skating. Existe la oportunidad de mejorar el canal existente para patinaje como para las aguas pluviales.

"People come from all over to skate this ditch during Stupid-Fest. Fringe group famous."
"La gente viene de todos lados a patinar in este cuneta. Es famoso."



Mountain Biking Trail
Vías/Caminos de Ciclismo de Montaña

Mountain biking trails provide off-road terrain loops or paths for mountain bikes. These trails are often, but not always, for exclusive use by bikers to prevent accidental collision with pedestrians.

Las veredas de ciclismo de montaña proveen terreno fuera de la carretera para los ciclistas de montaña. Estas veredas a veces, pero no siempre, son exclusivamente para el uso de ciclistas para prevenir accidentes con peatones.

Net Environmental Impact | Impacto Ambiental Neto

Enhances Habitat | ¿Mejora el hábitat?

Enhances Water Quality | ¿Mejora la Calidad del Agua?

Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"?

Reduces Erosion | ¿Reduce la Erosión?

Honors Community Identity | ¿Honra la Identidad de la Comunidad?

Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales?

Accessibility | ¿Accesibilidad?

Size | Tamaño

Phasing | Fase Recomendada

Pairs well with... / Va bien con...

- Skatable Areas | Área de patinar

Considerations / Consideraciones

- Mountain biking trails should be carefully designed to avoid erosion. Las vías para ciclismo de montaña deben ser diseñadas con precisión para evitar erosión.



Bike Racks Aparcabicis

Bike racks provide a place for those visiting Central Williamson Creek Greenway to park and lock their bikes. Los aparcabicis proveen lugar para estacionar y asegurar las bicicletas para los visitantes de la Cinta Central Verde del Arroyo Williamson.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (Low)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Low)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Low)
- Reduces Erosion | ¿Reduce la Erosión? (Low)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Low)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (Low)
- Accessibility | ¿Accesibilidad? (Low)
- Size | Tamaño (Low)

Phasing | Fase Recomendada

1 2 3

Costs (Low) **People** (Low)

Pairs well with... / Va bien con...

- Trails Senderos/Caminos
- Signage Señales
- Parking Lots Estacionamiento

Considerations / Consideraciones

- Bike racks should be placed at trailheads and next to parking lots. Aparcabicis deben ser colocados en las entradas a las vías/caminos y cerca de los estacionamientos de autos.



Fitness Programming Programación de Ejercicios

Fitness programming may include a wide variety of planned group activities led by fitness instructors, including outdoor yoga classes, community hikes, and races. Programas de ejercicios pueden incluir una gran variedad de actividades grupales lideradas por un instructor, incluyendo yoga, caminatas comunitarias, y carreras.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (Low)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Low)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Low)
- Reduces Erosion | ¿Reduce la Erosión? (Low)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Low)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (High)
- Accessibility | ¿Accesibilidad? (Low)
- Size | Tamaño (N/A)

Phasing | Fase Recomendada

1 2 3

Costs (Low) **People** (Low)

Context Dependent

Pairs well with... / Va bien con...

- Disc Golf Disco Golf

Considerations / Consideraciones

- Fitness programming can be coordinated with local gyms or PARO. Programación de ejercicios puede ser coordinado con gimnasios locales o PARO.



Disc Golf Disco Golf

Disc golf is a game in which frisbees are thrown into a series of metal baskets situated on an outdoor course. The object is to win by completing the course with as few throws as possible. Disco golf es un juego donde los discos se arrojan a una serie de cestas de metal dispersadas por un campo de juego al aire libre. El objetivo es ganar al completar el curso de cestas con el menor número de intentos.

Net Environmental Impact | Impacto Ambiental Neto

- Enhances Habitat | ¿Mejora el hábitat? (Low)
- Enhances Water Quality | ¿Mejora la Calidad del Agua? (Low)
- Reduces Heat Island Effect | ¿Reduce el efecto de "isla de calor"? (Low)
- Reduces Erosion | ¿Reduce la Erosión? (Low)
- Honors Community Identity | ¿Honra la Identidad de la Comunidad? (Low)
- Opportunities for Social Connections | ¿Ofrece Oportunidades para Interacciones Sociales? (High)
- Accessibility | ¿Accesibilidad? (Low)
- Size | Tamaño (High)

Phasing | Fase Recomendada

1 2 3

Costs (Low) **People** (Low)

Pairs well with... / Va bien con...

- Fitness Programming Programación de Ejercicios

Considerations / Consideraciones

- Disc golf requires ongoing maintenance and mowing of grass. Disco golf requiere mantenimiento continuo y corte de gramíneas.

Appendix E

ALL COMMUNITY ENGAGEMENT + COMMUNICATIONS

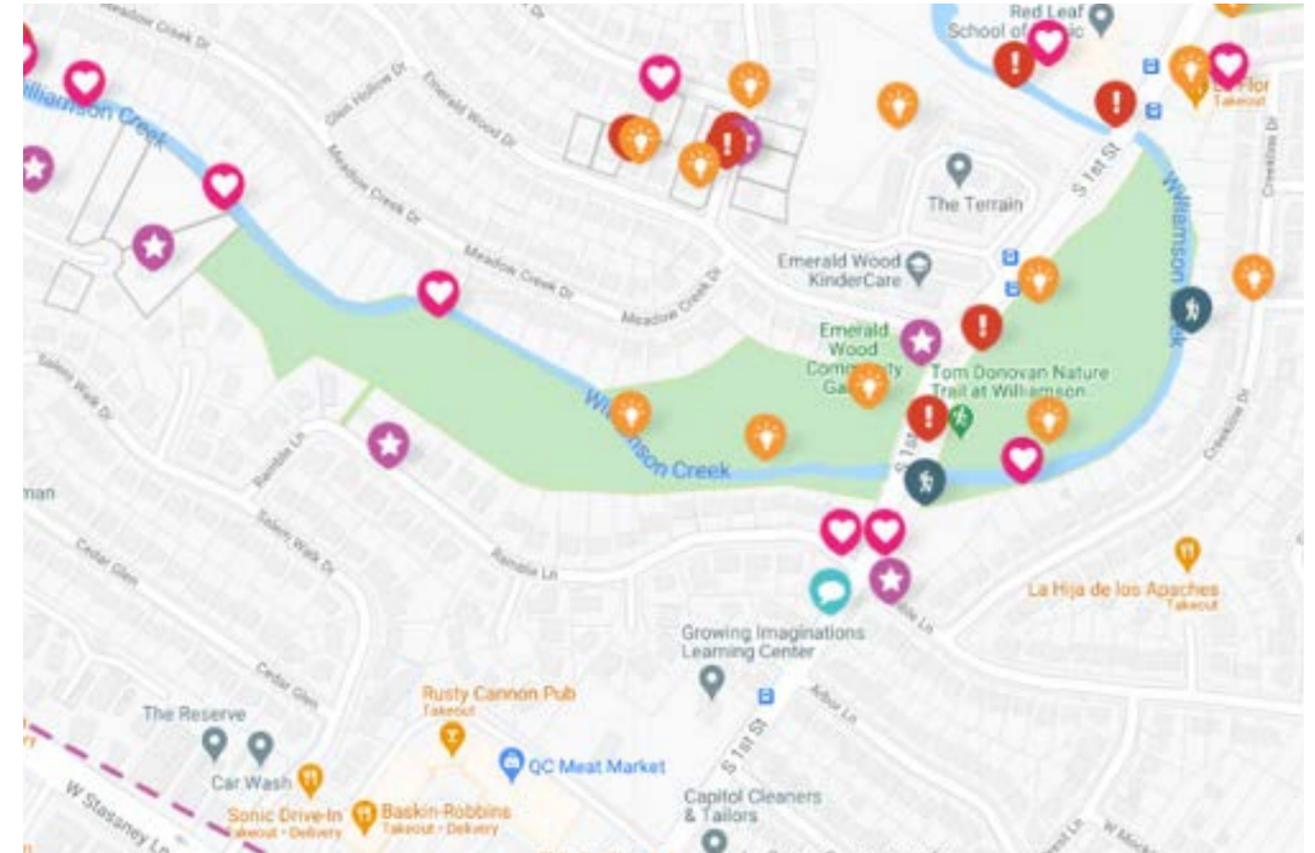
The following pages detail additional community engagement outlets and activities that were available for the public to participate in throughout the course of the project.

These include:

- Social Pinpoint - Creek Idea Cards
- Social Pinpoint - Public Comment
- Storytelling
- Creek Chats
- Creek Packs
- Flat Stanley Activity
- Virtual Creek Stomps
- iNaturalist Photos
- Virtual Community Picnics and Celebrations
- Website
- Newsletter
- Central Williamson Creek Greenway Facebook Page
- Conversation Toolkits
- Creek Stomp Journals

Social Pinpoint - Virtual Map

The interactive map on Social Pinpoint provided the opportunity to geographically share ideas, activities, and unique places along the Greenway. The map helped to shape the Creek Idea Cards.



Social Pinpoint - Creek Idea Cards

The Creek Idea Cards were based on ideas shared by the Williamson Creek Community. The idea cards were posted to Social Pinpoint, a community engagement platform, and categorized hierarchically through public vote as a way to prioritize which ideas would be included in the Vision Plan.



Social Pinpoint - Public Comment

Participants provided feedback on the Vision Plan drafts through Social Pinpoint, a virtual engagement platform.



Comment on the Project Overview & Vision Plan Chapters in the forum below!

You can download the document from the Vision Plan section above. There is a 500 character limit per comment but feel free to leave multiple comments to share your feedback.

1. What other context for the project may have been missed?
2. Do you see anything that doesn't work, or that you'd like to see included?
3. Anything else you'd like to provide feedback on?

Storytelling

Storytelling activities were employed to help ensure that the Vision Plan represented the full spectrum of experiences and hopes held by those who live and explore along the greenway, including audio stories to preserve and share personal accounts about Central Williamson Creek, the green spaces that surround it, and what it means to residents. A series of audio stories were produced as well as an animation by [Kiln Pictures](#) in partnership with community members of Central Williamson Creek Greenway, [Community Powered Workshop](#), and [The Nature Conservancy](#) and illustrates how the Vision Planning process centered community voices.

Contributors:

- Alfred Mcleod
- Allison Mclean
- Barbara Mead
- Darin Banduch
- Dave Bradshaw
- Genoi Strola
- Kate Mason-Murphy
- Kelly Davis-Burns
- Mark Branson
- Mary Olmstead
- Melody Plate
- Nicole Sanford
- Steve Prather
- Tom Donovan
- Tom Paolini
- Ryan and Haley Flener
- Russell Julian



"I've always enjoyed birds. My father was a birder; my grandmother, she knew her birds."



"It's like having a little park in the city"



"We would dog paddle in the rapids when we had a good rain"



"Improving any park is just a matter of involving your neighbors"



"After they put in the sewage system, our creek completely died"



"I couldn't live in any other place"

Creek Chats

The weekly Creek Chats were provided in two formats - through Zoom and at a socially-distanced outdoor pop-up space. Members from the Community Working Group, Community Powered Workshop and Asakura Robinson were available for in-depth community conversations about questions, ideas and ways to get involved.



Community working group members at a creek chat.



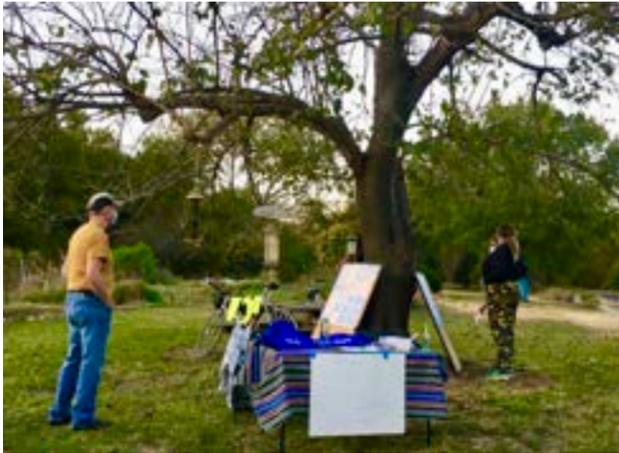
CWCG Vision Plan Yard Sign



Toolkit item activities at the Creek Chats

Creek Packs

Creek Packs were available at Creek Chat pop-ups or upon request and included printed engagement activities and tools available in English and Spanish as a guide to shaping the future of the Greenway.



Creek Packs were distributed at Creek Chats.



Creek Pack



Creek Packs were distributed at Creek Chats.

Flat Stanley

Flat Stanley is an educational project that uses paper cut-outs to tell stories about people and places. Participants created their story of Flat Stanley's future in the Creek by taking photos of them in different scenes to document their experiences along the Greenway.

GOAL: Flat Stanley is an educational project that uses paper cut-outs to tell stories about people and places. Create the story of Flat Stanley's future in the Creek by taking photos of them in different scenes along the Creek to describe their adventures in different places. Pair Flat Stanley with found or created objects and materials to indicate emotions or experiences.

MATERIALS NEEDED

Flat Stanley – you can find templates available online to print at home or create your own version of Flat Stanley or request a mailed hard copy by emailing info@centralwilliamsoncreek.org

- Found objects
- Materials to indicate emotions or experiences
- Camera to take photos

ACTIVITY

- 1: Think about the spaces you visit along the Creek today.
- 2: Create the story of Flat Stanley's future experiences in the Creek.
- 3: Using Flat Stanley plus any found or created objects/materials, create 3 scenes of creek experiences. Consider using other elements to indicate emotions or experiences, (e.g. sunshine indicates likes, rain clouds indicate dislikes.)
- 4: Describe Stanley's adventure. Explain the

meanings of the objects/materials you found or created and why you chose them. Describe the scene and why you chose to take the photo there.

- 5: Share your 3 scenes through photos and text below or on the Central Williamson Creek Greenway Facebook page.



Virtual Creek Stomps

Community members filmed and narrated their physical experiences of the Creek as Virtual Creek Stomps to document creek conditions and inspire others to explore the creek.



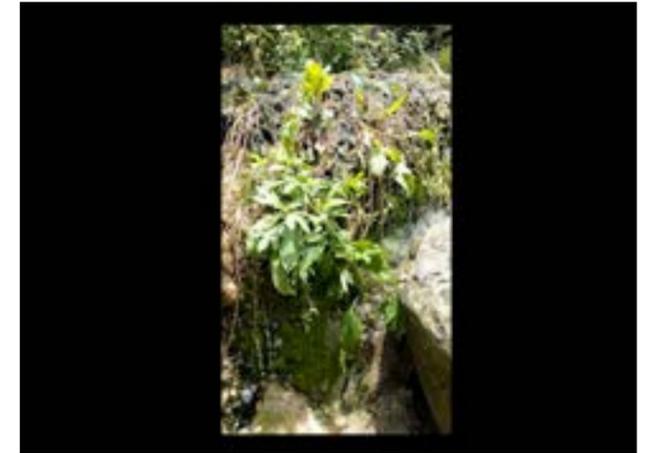
"...we even had a gray fox that came up one summer that we fed every evening"



Armadillo skeleton captured by Jessica



Creek captured by Landscape Architecture team and City of Austin staff



Waterfall captured by Watershed Protection Department



Trash and debris along the creek captured by Jessica



Wetland plants captured by Landscape Architecture team and City of Austin staff



Railroad bridge captured by Greg and Anna



Tunnels and skating area captured by Greg and Anna

iNaturalist Community Photos

Participants shared their Greenway experience by documenting plants, animals, nature, and places through the iNaturalist, a nature app that helps to identify plants and animals. These observations were geolocated and provided valuable information about the spatial distribution and ecology of plant and animal species throughout the Greenway.



Map of iNaturalist sightings in the Central Williamson Creek Greenway



Stereum ostrea
False Turkey-tail



Hyles Lineata
White-lined Sphinx



Spinus psaltria
Lesser Goldfinch



Coccinellidae
Lady Beetles



Chrysomela texana
Red-headed Willow Leaf Beetle



Gaillardia pulchella
Indian Blanket



Tecoma stans
Yellow Trumpetflower

Virtual Community Picnics and Celebrations

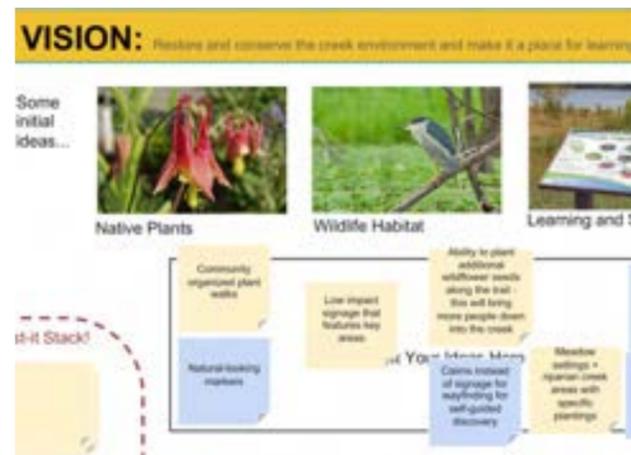
Community-wide, family-friendly virtual picnics hosted on Zoom included interactive sessions led by members of the Community Working Group to engage their neighbors in the Vision Planning process by demonstrating activities and sharing updates. The “Green Ribbon Celebration” in December 2020 celebrated the release of the plan to the public for comment.



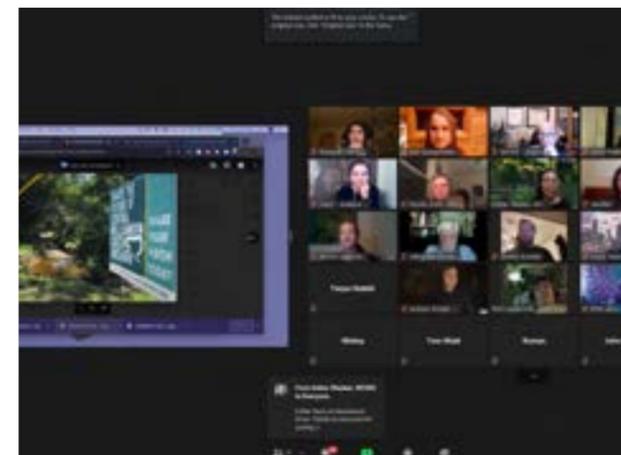
Community Picnic



Green Ribbon Celebration



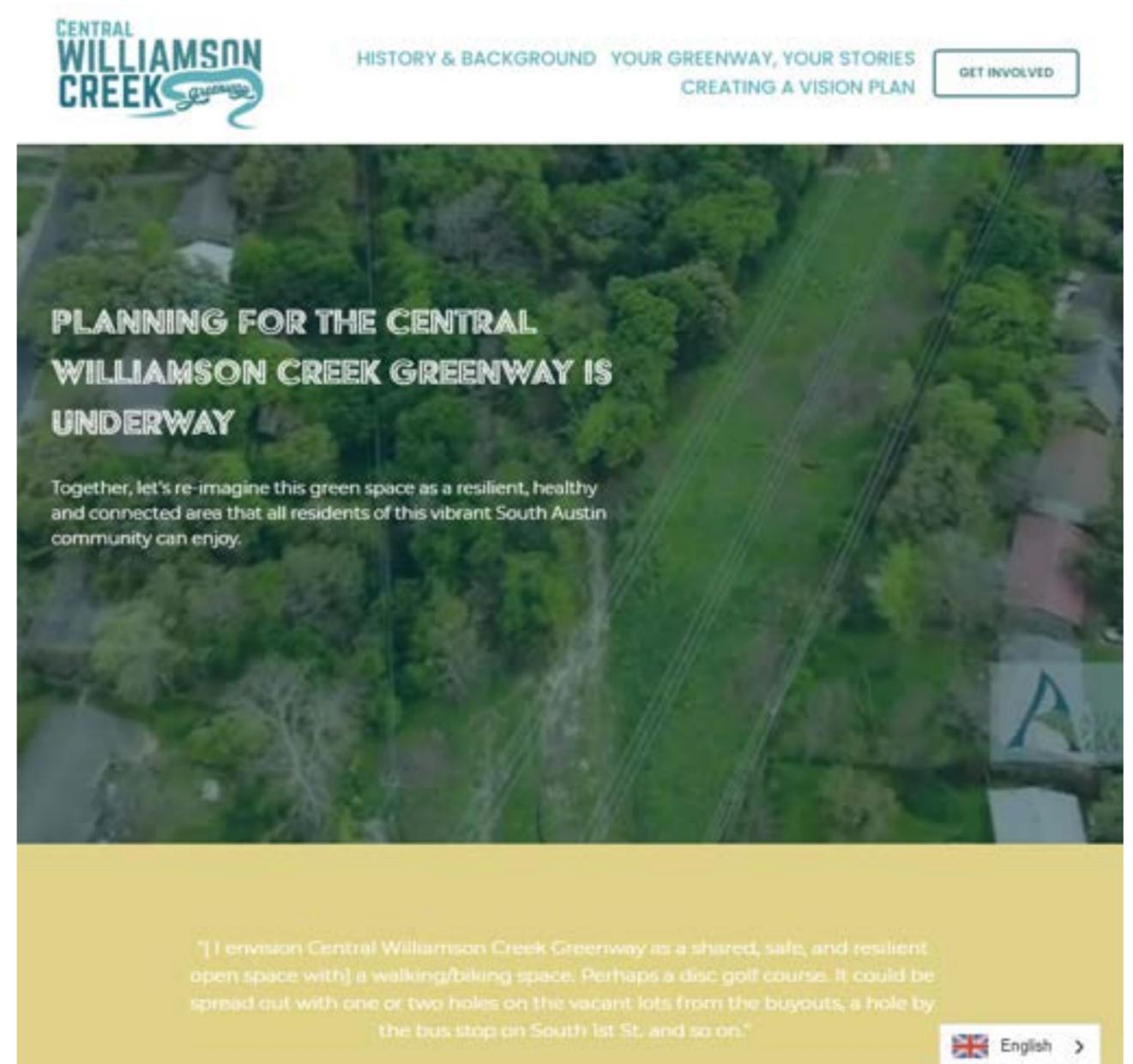
Community Picnic



Green Ribbon Celebration

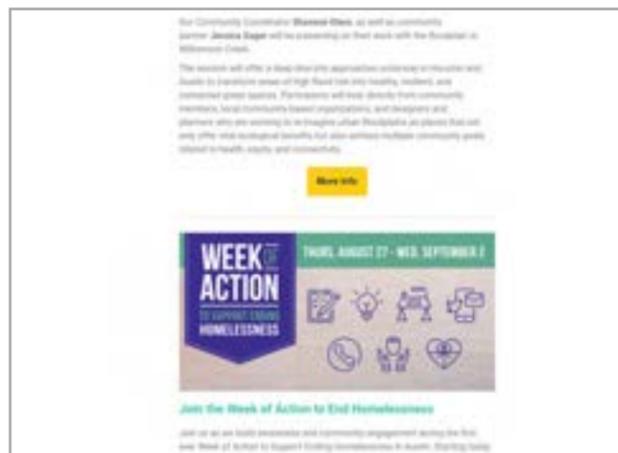
Website

The website www.centralwilliamsoncreek.net shared the history and background of the project, community stories, engagement activities and information on the project area, process, partners and documents, including drafts of the Vision Plan. The website will continue to serve as a transparent method of sharing ways to get involved in the implementation of the Vision Plan.



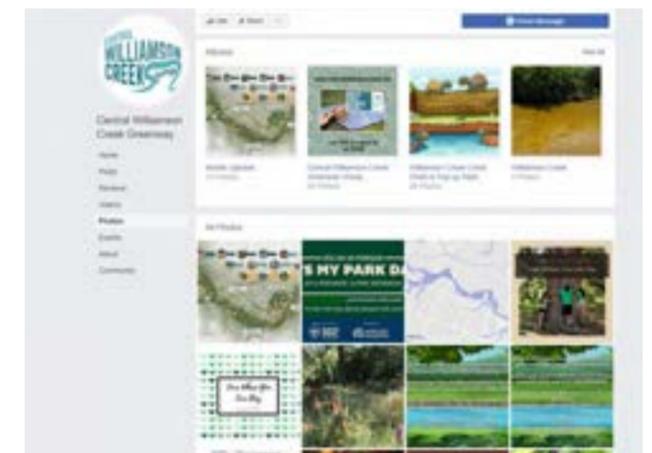
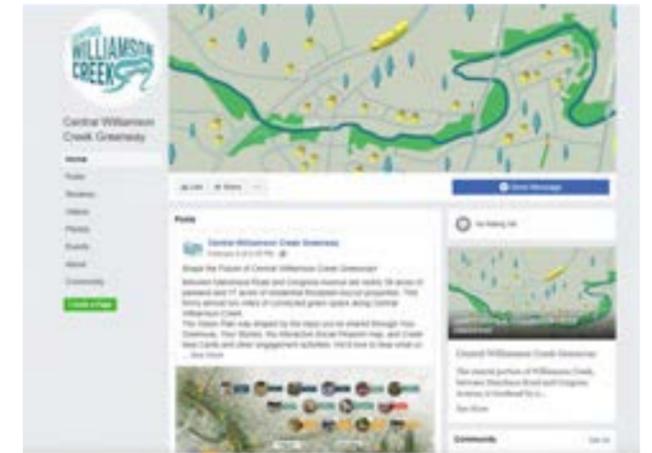
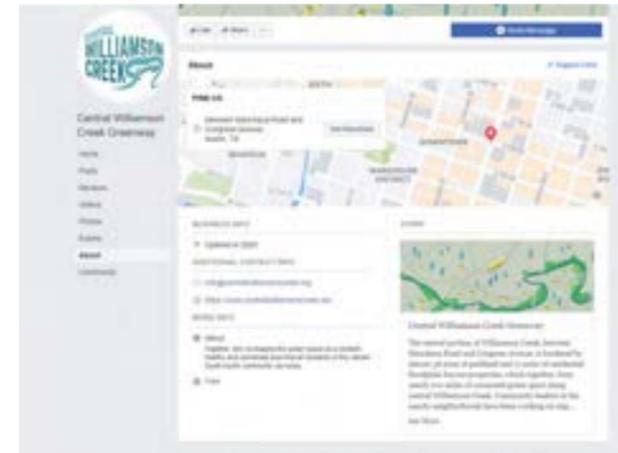
Newsletter

The newsletter served as a primary communication outlet to share ways to get involved, events, Vision Plan updates, blog posts and community stories.



Facebook

Community events and updates to the Vision Plan were posted to the Central Williamson Creek Greenway Facebook page.



Conversation Toolkits

The Toolkit was created for anyone wanting to facilitate a conversation with their neighbors to re-imagine the Central Williamson Creek Greenway as a community space, capturing opinions, perceptions, and stories. The prompts provided helped individuals think through the future of the Greenway or host meaningful conversations with family and friends.

Williamson Creek Greenway

a community-led vision for a resilient and connected urban floodplain

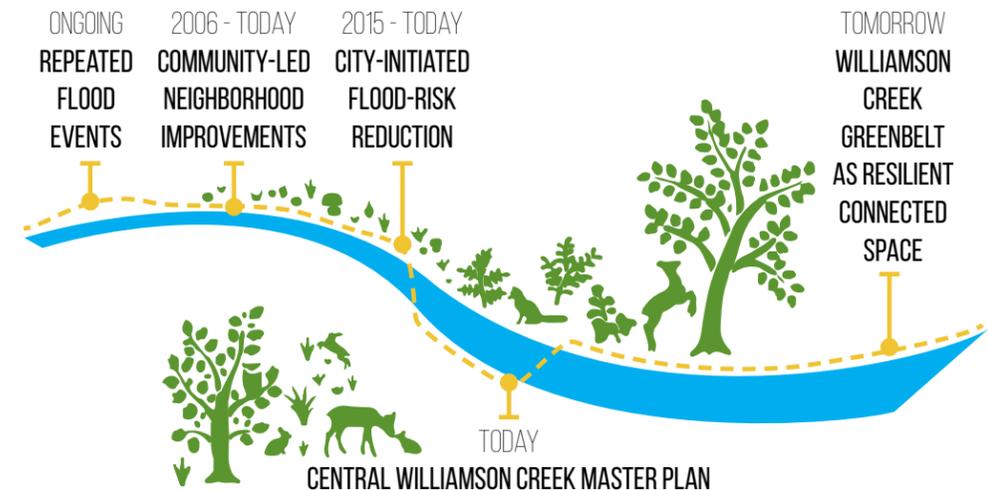
COMMUNITY CONVERSATION TOOLKIT

WHY ARE WE DOING THIS?

Floodplains in Texas cities are expanding as storms become more intense and more frequent with climate change. As a result, urban communities increasingly face the dual challenge of protecting human lives and sustainably managing flood-prone urban landscapes.

Williamson Creek in South Austin has been continually ravaged by floods over the last two decades. As a result, the City of Austin and U.S. Army Corps of Engineers partnered on a buyout process beginning in 2015. With 17.8 acres of flood buyout properties, combined with 58.3 acres of underutilized park-land, the central portion of Williamson Creek represents an opportunity to *re-imagine this floodplain as a resilient collective and connected space* in partnership with an ethnically and socioeconomically diverse community.

WHERE HAVE WE BEEN & WHERE ARE WE GOING?





OBJECTIVE:

This toolkit is made for anyone wanting to participate in a conversation about Central Williamson Creek Greenway and how it could be re-imagined as a community space in the future, sharing opinions, perceptions, and stories.

HOW TO:

The following prompts are intended for you or to help facilitate a conversation with family, friends, and neighbors. Please record your conversation as well as any important or recurring points. You may cover all four themes during your conversation or focus on a specific topic, it's up to you!

COMMUNITY CONVERSATION THEMES:

- THEME 1: Current Creek Perceptions**
- THEME 2: Creek Likes**
- THEME 3: Creek Challenges**
- THEME 4: Implementing Our Vision**

MATERIALS INCLUDED IN THIS TOOLKIT:

- Guide for Creek Conversations
- Neighborhood & Creek Map

SHARE YOUR CONVERSATION TOOLKIT RESULTS:

- Email a photo or scan to info@centralwilliamsoncreek.org
- Mail to Community Powered Workshop, 1023 Springdale Road, #13F, 78721



The information collected through this process will be aggregated to form an overall vision for Central Williamson Creek Greenway. Your personal information will not be shared outside of the project group and you will not be contacted other than to keep you plugged into the process. If you have any questions or concerns please feel free to reach out to us at info@centralwilliamsoncreek.org.

CONVERSATION FACILITATOR:

Name:
 Phone/Email:
 Address:

CONVERSATION PARTICIPANTS:

Name	Phone/Email	Address	Future Volunteer
------	-------------	---------	------------------

1 CURRENT CREEK PERCEPTIONS

Share experiences had in Central Williamson Creek Greenway and the surrounding area and how you currently feel about the creek.

GUIDING QUESTIONS:

- If you have spent time in Central Williamson Creek Greenway, what brought you there and how did you get there (actual entry point)?
(e.g. walking, walking the dog, meeting with friends on a path near my street, etc.)
- If no, is there a particular reason why you don't go there?
- Describe the creek in one word.

MAP IT:

- • Using the map of the area, mark the spots you have visited before using a circle
- Do you have any stories you are willing to share about being in that space?
- If you have not visited, are there any stories you might have heard about specific spaces of the creek?

1 NOTES CREEK PERCEPTIONS

How do you spend time in Central Williamson Creek Greenway?

What keeps you away from Central Williamson Creek Greenway?

1 NOTES CREEK PERCEPTIONS

*Describe Central Williamson Creek Greenway
in ONE WORD*

*Stories about
Central Williamson Creek Greenway*

*Anything else you would like to share about how you
currently experience and perceive the creek?*

2 CREEK LIKES

Share details about things and spaces you like along Central Williamson Creek Greenway.

GUIDING QUESTIONS:

- What 3 words describe a place that makes you feel comfortable and a sense of belonging.
- Where along Central Williamson Creek Greenway might you be able to feel that?
- If not, how do you think these feelings could be achieved in Central Williamson Creek Greenway?

MAP IT:

- ▲ Using the map of the area, ask people to mark the spots they are most likely to feel comfortable and a sense of belonging in Central Williamson Creek Greenway with a triangle.

2 NOTES

Places that make you feel comfortable and belonging in 3 words

CREEK LIKES

Spaces in Central Williamson Creek Greenway that make you feel this way

2 NOTES

CREEK LIKES

*Ways Central Williamson Creek Greenway
could provide a greater sense of comfort
and belonging for the neighborhood*

*Anything else you would like to share
about what you like about the creek?*

3 CREEK CHALLENGES

Share details about what you see as challenges along Central Williamson Creek Greenway.

GUIDING QUESTIONS:

- What challenges do you have in experiencing Central Williamson Creek Greenway as a neighborhood amenity?
- Are these concerns and challenges shared by other neighbors or are there others you have heard?
- How do you think the challenges you have identified could be overcome?

MAP IT:

- Using the map, mark areas that pose significant challenges with a square.

3 NOTES CREEK CHALLENGES

Concerns and Challenges seeing or experiencing Central Williamson Creek Greenway as a neighborhood amenity

3 NOTES CREEK CHALLENGES

Ways these challenges or concerns could be overcome

Anything else anyone would like to share about creek concerns or challenges?

4 IMPLEMENTING OUR VISION

Share information about what you would like to see in Central Williamson Creek Greenway.

GUIDING QUESTIONS:

- What type of activities would you like to engage in or see other people engaging in along Central Williamson Creek Greenway? Are there specific locations you have in mind?
- If stewardship means caring for Central Williamson Creek Greenway, how do you see you and your neighbors as stewards?
- How do you think the neighborhood can collectively work towards implementing a shared vision for Central Williamson Creek Greenway?

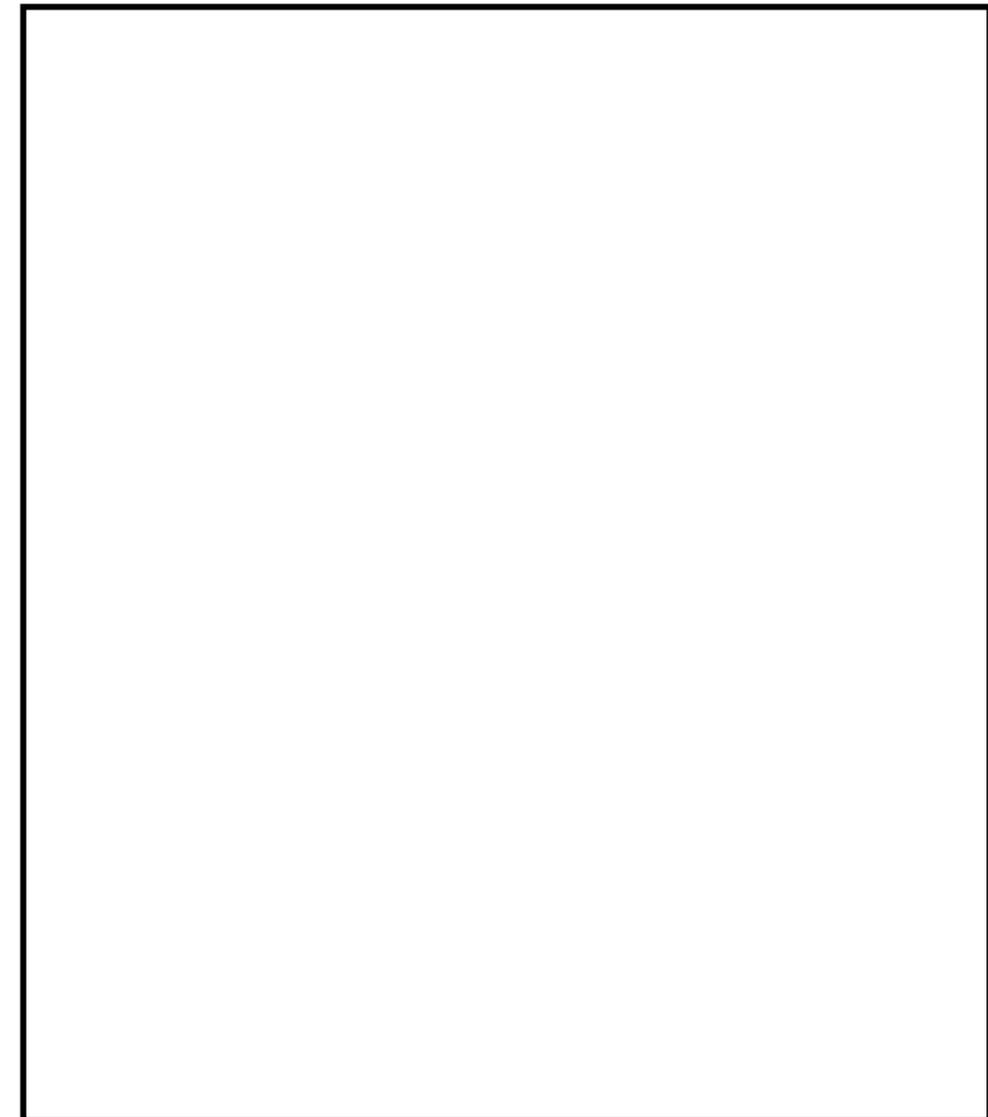
MAP IT:

- Using the map, mark areas along the creek where your vision would be most impactful or where you would like to see specific activities happen with a star.

4 NOTES

FUTURE VISION

Types of activities you would like to see along the creek & locations you have in mind



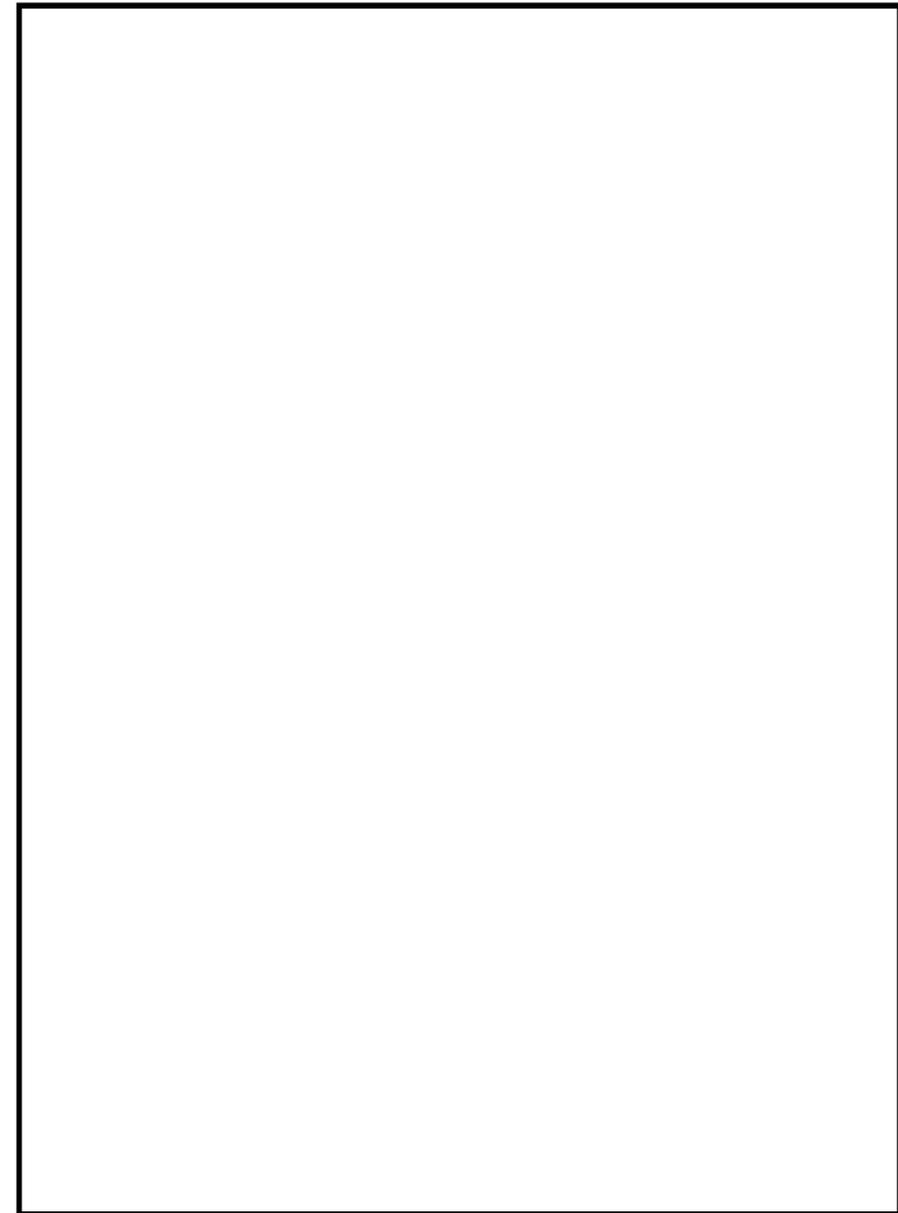
4 NOTES

FUTURE VISION

*Ways you and your neighbors can
be stewards of the creek*



*Ways you and your neighbors can collectively
work towards implementing a shared vision*





CONGRATULATIONS, YOU COMPLETED THE TOOLKIT!

... but you're not done yet. Please share the results of your conversation back so they can be included in the community vision!

Ways to share your conversation toolkit results:

- Email a photo or scan to info@centralwilliamsoncreek.org
- Mail to Community Powered Workshop, 1023 Springdale Road, #13F, 78721

If you have any additional questions or concerns please contact us at info@centralwilliamsoncreek.org



This toolkit was developed by Community Powered Workshop in partnership with Public, Green & Wild, The Nature Conservancy, and the National Park Service.

This partnership came from a resident-identified need for a comprehensive community vision for public access to the growing stock of publicly owned land along Williamson Creek for the benefit of neighborhood residents.



Creek Stomp Journals

The Creek Stomp Journal was provided to create a common method for documenting hikes along the creek to share with neighbors and inform the vision planning process.



MY CREEK STOMP JOURNAL

Multi-functional green spaces are critical components of urban resilience and they contribute largely to the health and well-being of nearby residents. Those residents and community leaders (you!) have an important role to play in the future of this community greenspace.

Community members from across the Central Williamson Creek area are actively engaged in a planning process to envision a healthy and resilient future for the Greenway.

This *Creek Stomp Journal* was created to provide a common method for documenting hikes along the creek to share with neighbors and inform the vision planning process. Your submissions will be shared on the project website: www.centralwilliamsoncreek.org.

We invite you to use this journal to record your creek stomps and send them back to us however is most convenient for you:

email: info@centralwilliamsoncreek.org
mail: 1023 Springdale Road, #13F, 78721
or call to coordinate pick up at 512-220-4254



centralwilliamsoncreek.org

Please visit www.centralwilliamsoncreek.org for other ways to get involved including:



VIRTUAL
EVENTS



COMMUNITY
CONVERSATION
TOOLKITS



COMMUNITY
PHOTOS
find us on the iNaturalist app



YOUR GREENWAY,
YOUR STORIES
record your story today!

Have suggestions for other ways you'd like to get involved with the Greenway planning process? Let us know at info@centralwilliamsoncreek.org!

MY CREEK STOMP JOURNAL

DATE/TIME:

ENTRY &
EXIT POINTS:

TRANSIT
TYPE:

DIFFICULTY:

DISTANCE:

AMENITIES:

CONDITIONS

Creek *dry* ○ ○ ○ ○ ○ *wet*

Obstacles *few* ○ ○ ○ ○ ○ *many*

Trail *poor* ○ ○ ○ ○ ○ *clear*

Navigation *easy* ○ ○ ○ ○ ○ *hard*

Bikeable *easy* ○ ○ ○ ○ ○ *hard*

Activity *none* ○ ○ ○ ○ ○ *a lot*

Wildlife *none* ○ ○ ○ ○ ○ *a lot*

Vegetation *invasive* ○ ○ ○ ○ ○ *native*



centralwilliamsoncreek.org

What do your neighbors need to know about this part of the creek?

NOTES ABOUT YOUR CREEK STOMP:

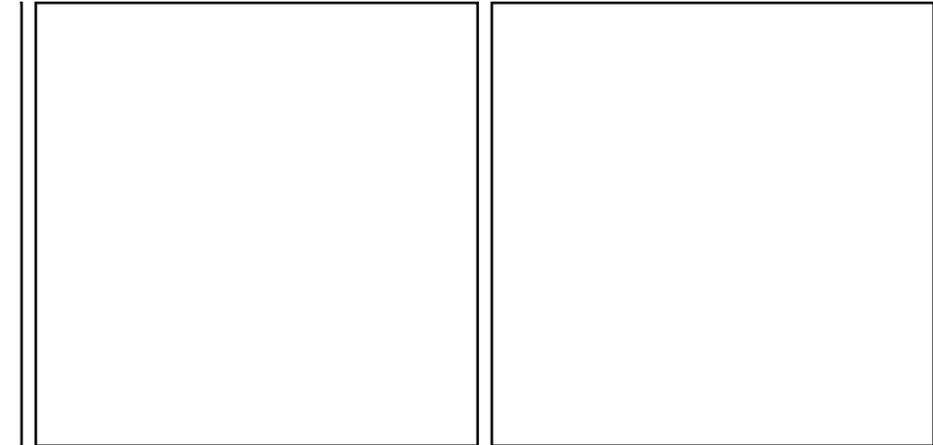
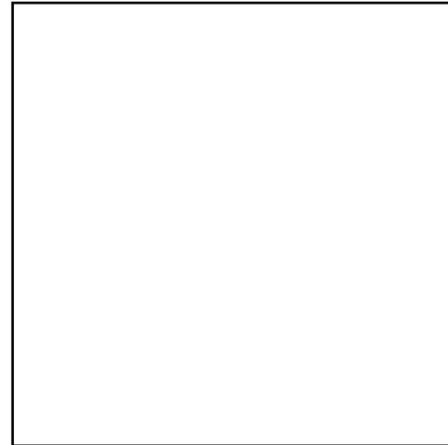
What was the best & worth part of your Creek Stomp today? What do you hope for the future of this part of the creek?

MY CREEK STOMP MAP

Where did you explore today & what did you experience?

PLACES YOU...
have suggestions
have challenges
find unique
explore

CENTRAL WILLIAMSON CREEK
greenway
centralwilliamsoncreek.org



CENTRAL WILLIAMSON CREEK
greenway
centralwilliamsoncreek.org

MY CREEK STOMP JOURNAL

DATE/TIME:

ENTRY &
EXIT POINTS:

TRANSIT
TYPE:

DIFFICULTY:

DISTANCE:

AMENITIES:

CONDITIONS

Creek *dry* ○ ○ ○ ○ ○ *wet*

Obstacles *few* ○ ○ ○ ○ ○ *many*

Trail *poor* ○ ○ ○ ○ ○ *clear*

Navigation *easy* ○ ○ ○ ○ ○ *hard*

Bikeable *easy* ○ ○ ○ ○ ○ *hard*

Activity *none* ○ ○ ○ ○ ○ *a lot*

Wildlife *none* ○ ○ ○ ○ ○ *a lot*

Vegetation *invasive* ○ ○ ○ ○ ○ *native*



centralwilliamsoncreek.org

What do your neighbors need to know about this part of the creek?

NOTES ABOUT YOUR CREEK STOMP:

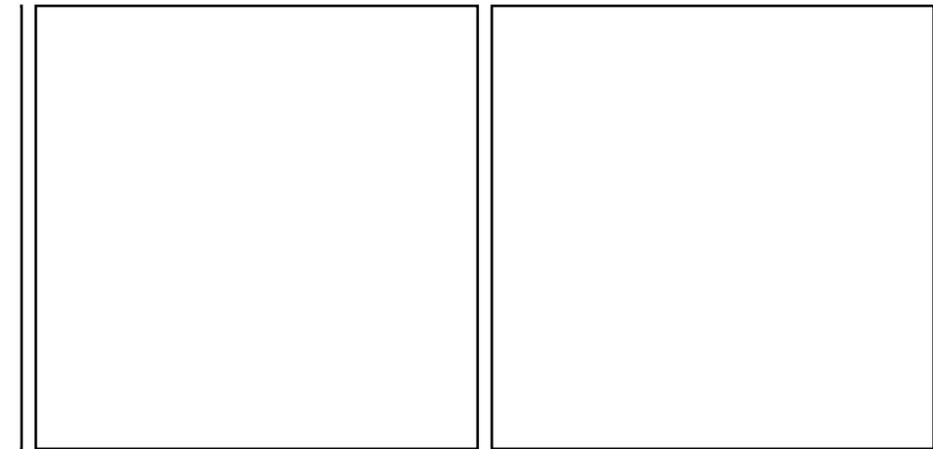
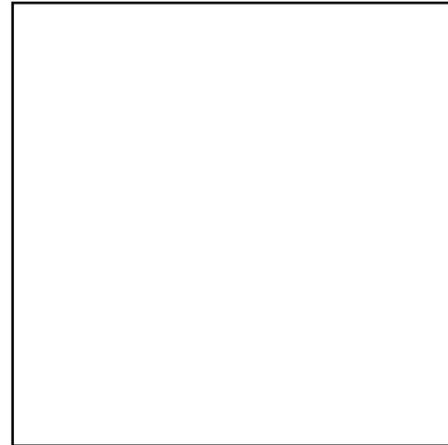
What was the best & worth part of your Creek Stomp today? What do you hope for the future of this part of the creek?

MY CREEK STOMP MAP

Where did you explore today & what did you experience?

PLACES YOU...
have suggestions
have challenges
find unique
explore

CENTRAL
WILLIAMSON
CREEK *greenway*
centralwilliamsoncreek.org



PHILCO DR.
S 1st ST.
ORLAND BLVD.
EMERALD WOOD DR.
RAMBLE LN.
S CONGRESS AVE.

MY CREEK STOMP JOURNAL

DATE/TIME:

ENTRY &
EXIT POINTS:

TRANSIT
TYPE:

DIFFICULTY:

DISTANCE:

AMENITIES:

CONDITIONS

Creek *dry* ○ ○ ○ ○ ○ *wet*

Obstacles *few* ○ ○ ○ ○ ○ *many*

Trail *poor* ○ ○ ○ ○ ○ *clear*

Navigation *easy* ○ ○ ○ ○ ○ *hard*

Bikeable *easy* ○ ○ ○ ○ ○ *hard*

Activity *none* ○ ○ ○ ○ ○ *a lot*

Wildlife *none* ○ ○ ○ ○ ○ *a lot*

Vegetation *invasive* ○ ○ ○ ○ ○ *native*



centralwilliamsoncreek.org

What do your neighbors need to know about this part of the creek?

NOTES ABOUT YOUR CREEK STOMP:

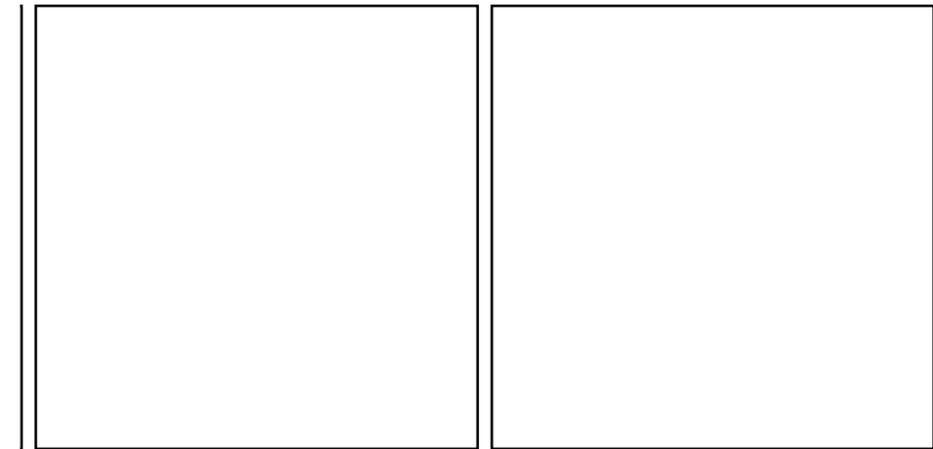
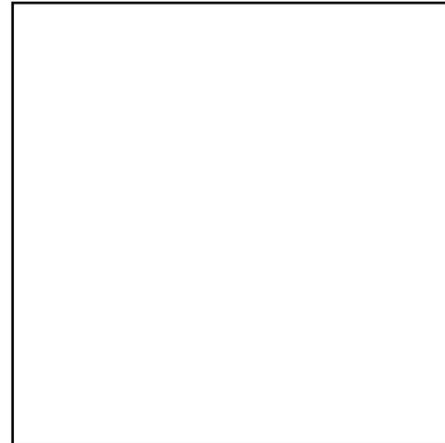
What was the best & worth part of your Creek Stomp today? What do you hope for the future of this part of the creek?

MY CREEK STOMP MAP

Where did you explore today & what did you experience?

PLACES YOU...
have suggestions
have challenges
find unique
explore

CENTRAL
WILLIAMSON
CREEK *greenway*
centralwilliamsoncreek.org



PHILCO DR.
S 1st ST.
ORLAND BLVD.
EMERALD WOOD DR.
RAMBLE LN.
S CONGRESS AVE.



“The Peace of Wild Things”

*When despair for the world grows in me
and I wake in the night at the least sound
in fear of what my life and my children's lives may be,
I go and lie down where the wood drake
rests in his beauty on the water, and the great heron feeds.
I come into the peace of wild things
who do not tax their lives with forethought
of grief. I come into the presence of still water.
And I feel above me the day-blind stars
waiting with their light. For a time
I rest in the grace of the world, and am free.*

by Wendell Berry

