

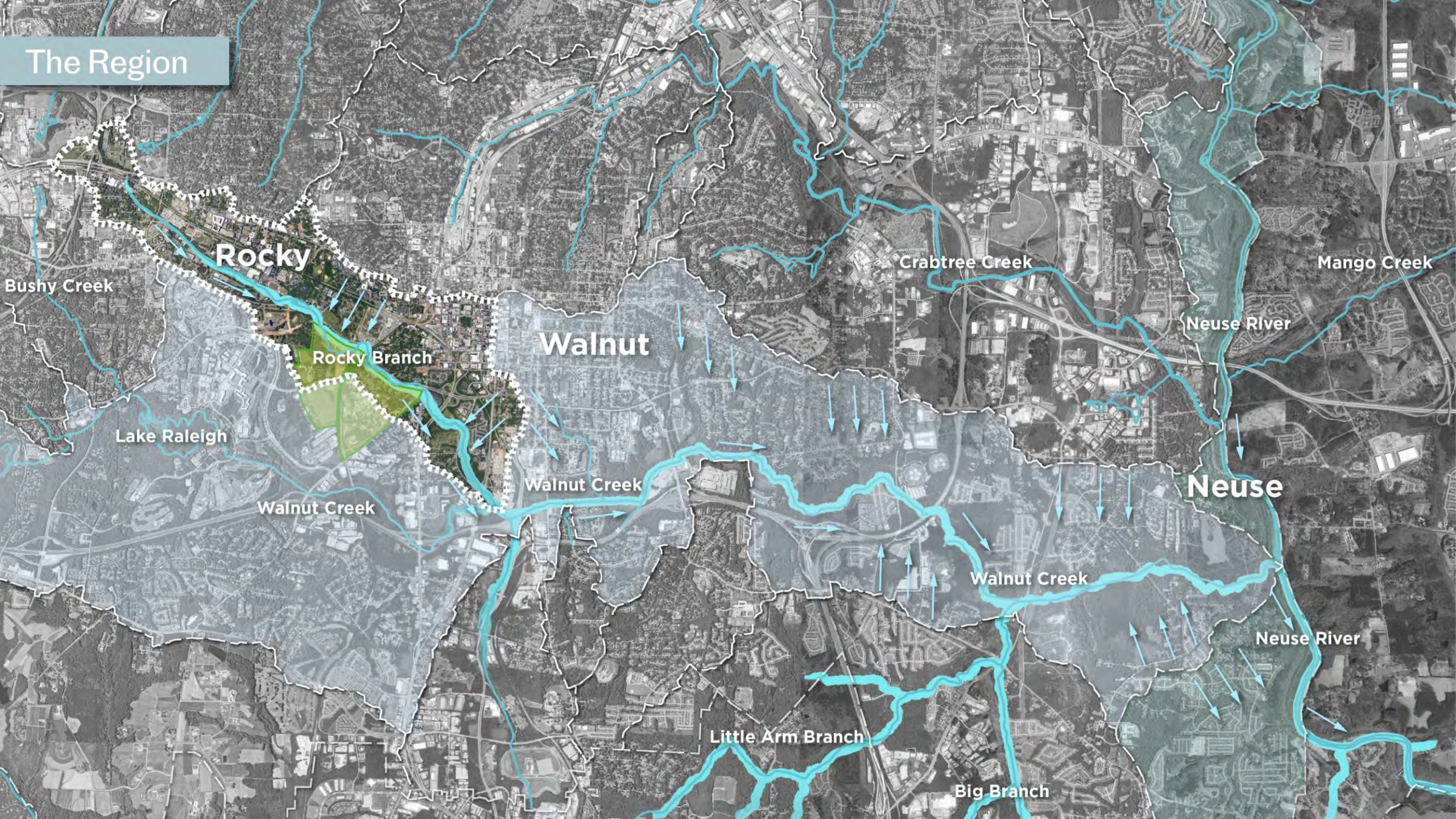


ROCKY BRANCH ENHANCEMENT PROJECT - Feasibility Study

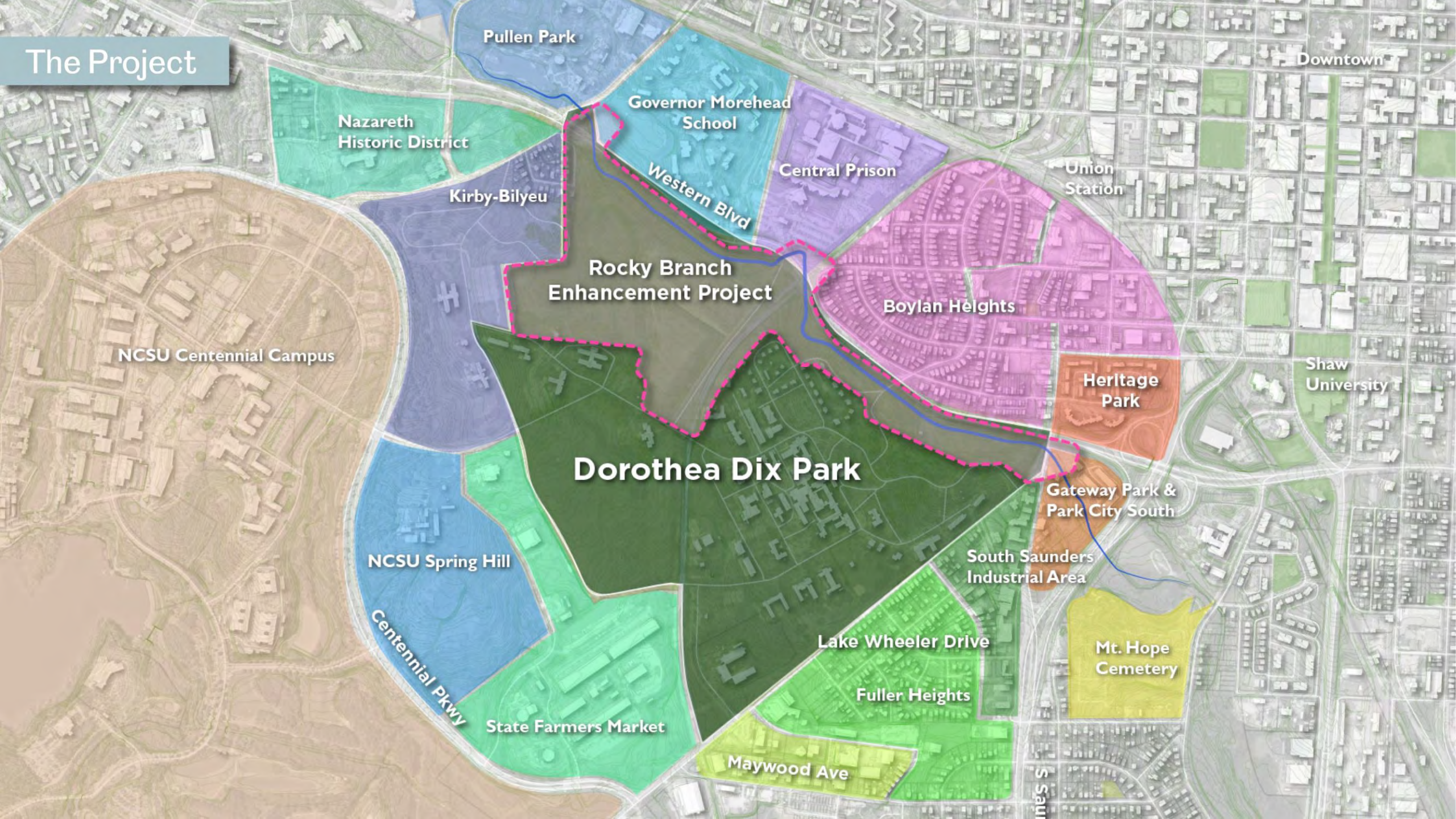
AGENDA

1. Context: Systems Influencing Rocky Branch
2. Opportunities: The Synthesis
3. Values and Priorities: Program & Precedents
 - a. Circulation and Engagement - Overall Approach
 - b. Stream, Stormwater, and Hydrology - Overall Approach
4. Proposed Scenarios - A, B, and C - Overview by Reach
5. Proposed Scenarios - A, B, and C - Reach Comparisons

The Region



The Project



Pullen Park

Nazareth
Historic District

Kirby-Bilyeu

Governor Morehead
School

Western Blvd

Central Prison

Union
Station

Downtown

NCSU Centennial Campus

Rocky Branch
Enhancement Project

Boylan Heights

Heritage
Park

Shaw
University

Dorothea Dix Park

Gateway Park &
Park City South

South Saunders
Industrial Area

Mt. Hope
Cemetery

Lake Wheeler Drive

Fuller Heights

Maywood Ave

State Farmers Market

NCSU Spring Hill

Centennial Pkwy

Adjacent Projects

Ashe Ave. Realignment

Western Blvd. BRT

Pullen to Bain Realignment

Stone Houses Renovation

DDP Building and Site Analysis
and Financial feasibility Study

Park City South

Hammell Drive Assemblage

Gipson Play Plaza

Lake Wheeler Dr. Improvement

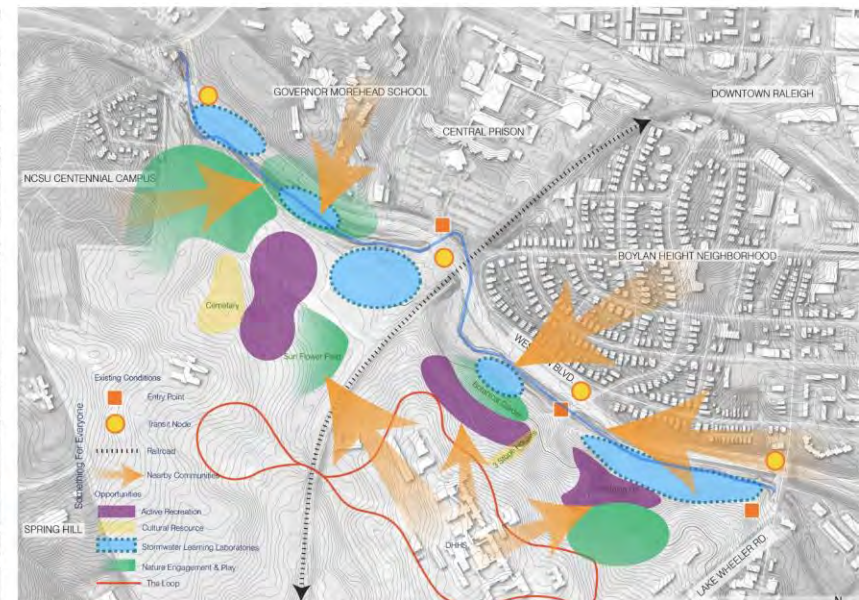
Dix Edge Area Study



OPEN UP AND CONNECT



BUILD FROM WHAT IS THERE



SOMETHING FOR EVERYONE

Site Hydrology Access & Improvement Opportunities



SYCAMORE
WETLAND

BIO -
RETENTION



TERRACED
WETLANDS
GARDEN
WETLANDS



PERCHED
WETLANDS



Ecological & Natural Landscape Systems Opportunities

PINE SAVANNA



POLLINATOR MEADOW



PIEDMONT PRAIRIE

SYCAMORE GROVE

SYCAMORE GROVE



OAK HAMMOCK GROVE GLADE

Recreation & Engagement Opportunities



ACTIVITY

PICNIC

PLAY

NATURE
PLAY



EXERCISE
PAD

BOULDER
SCRAMBLE

EXERCISE
PAD



SLEDDING
HILL

ART
RAMBLE


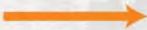
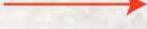
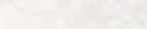
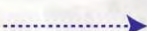


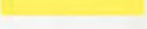



Circulation and Engagement



Hierarchy of Paths
Buffalo Bayou Park, Houston

Legend

-  Vehicular Connection
-  Primary Pedestrian Connection [Multi-use Trail]
-  Secondary Pedestrian Connection
-  Boardwalk
-  Existing Greenway
-  Railroad
-  Parking
-  Activated / Programmed Space
-  Gathering Space



Stream, Stormwater, and Hydrology



Bedrocks Glides
(Rocky Branch Downstream Reference Reach)



Wetland Boardwalk
(Houston Arboretum)



Outdoor Meandering Classroom



(NCMA - S678)
Stepped Stormwater Treatment

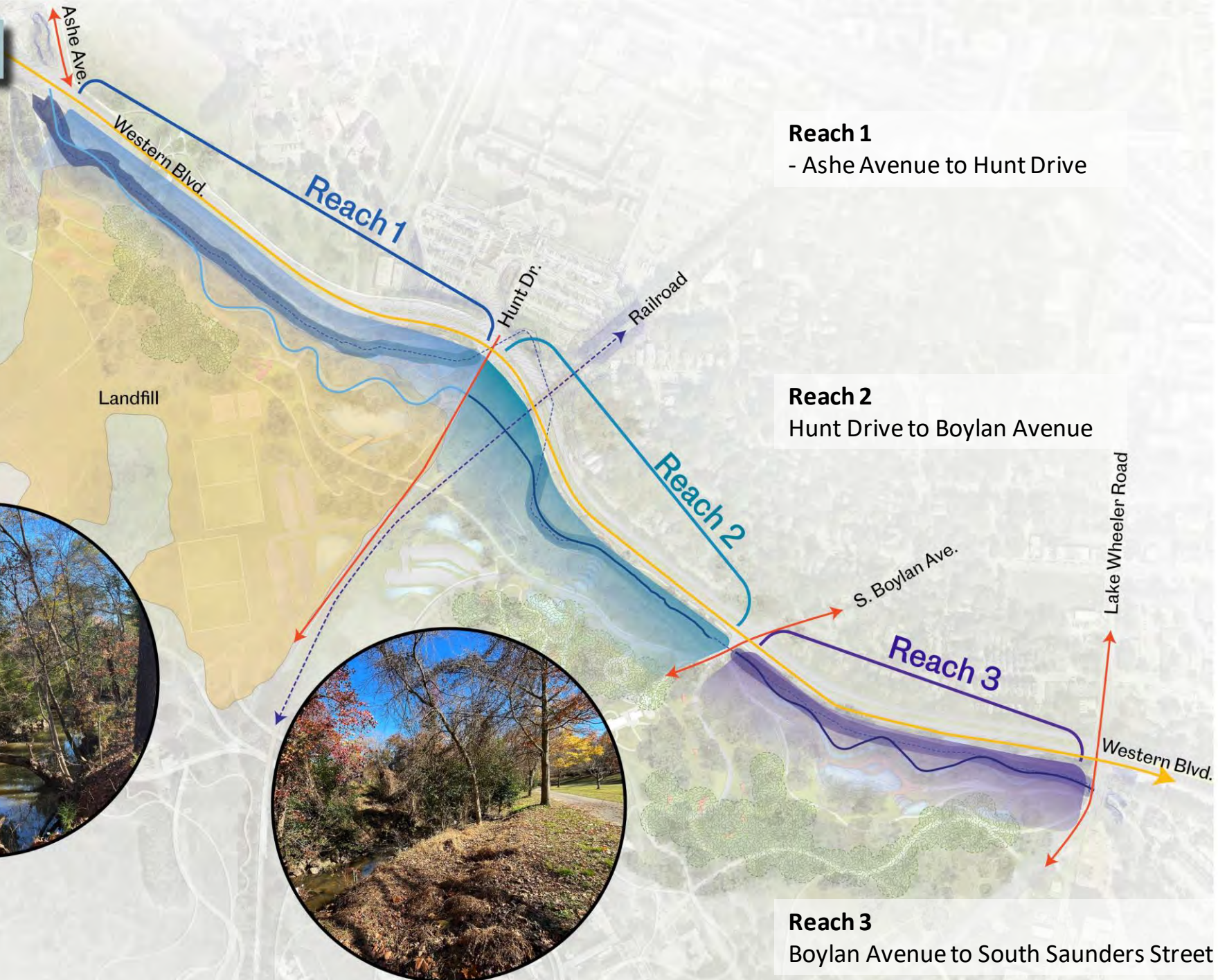
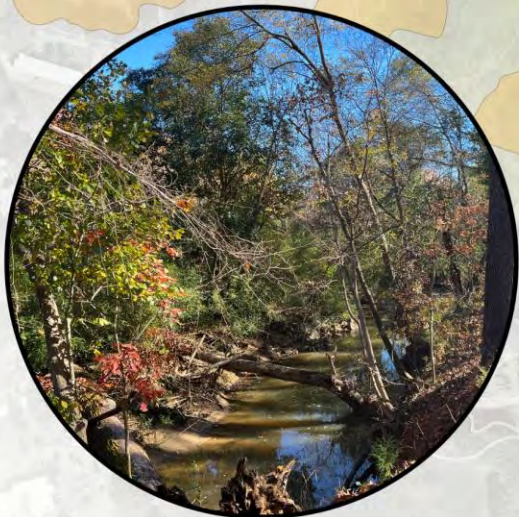
Legend

- Proposed Wet Pond/ Wetland
- Proposed Floodplain Bench
- Proposed Stream
- Stormwater Flow
- Surface Flow
- Stream Realignment & Restoration
- Enhanced in Place

Overall Plan - Scenario A

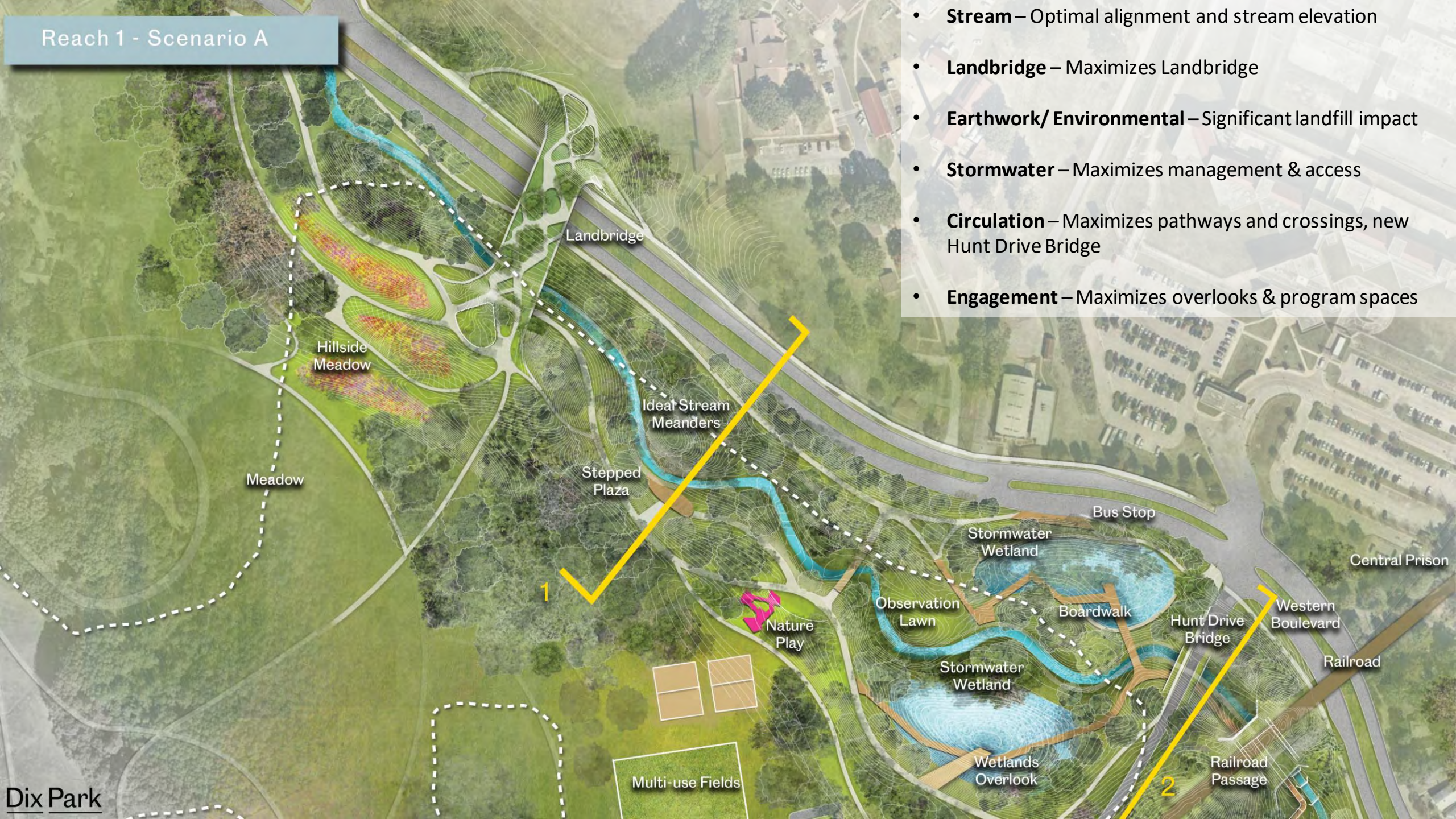


Three Reaches - Delineation



Reach 1 - Scenario A

- **Stream** – Optimal alignment and stream elevation
- **Landbridge** – Maximizes Landbridge
- **Earthwork/ Environmental** – Significant landfill impact
- **Stormwater** – Maximizes management & access
- **Circulation** – Maximizes pathways and crossings, new Hunt Drive Bridge
- **Engagement** – Maximizes overlooks & program spaces



Reach 1 - Perspective



High Point
with a View

Hillside
Meadows

Multiuse
Fields

Stormwater
Wetland

Greenway

Hillside Hangout

Overlook
to Regional
Ecologies

Rocky
Branch

Riparian Buffer

Stormwater
Management
Amenities

Greenway

Vegetated
Buffer

Western
Boulevard

Governor Morehead
School to Pullen Park

Reach 1 - Perspective



2



Dix Park

Reach 2 - Scenario A



- **Stream** – Optimal alignment & stream elevation
- **Earthwork/ Environmental** – Most significant impact
- **Stormwater** – Maximizes stormwater
- **Circulation** – Maximizes pathways & connections
- **Engagement** – Maximizes engagement and integration with adjacent program

Reach 2 - Perspective



High Point
with a
View

Meadows

Stormwater
Wetland

Existing & Refined
Forest Cover

Pedestrian and
Stream Railroad
Passage

Railroad

Stormwater
Dissipation
Pools

Western
Boulevard

Stormwater
Treatment & Parking

Tate Drive

Stormwater Dissipation
utilizing Existing
Topography

Rocky
Branch

Greenway

Remediatory
Edge

Western
Boulevard

Reach 3 - Scenario A



Enhanced
Rocky Channel

Visitor
Center

Hangout
Lawn

Wetland Walk
& Plaza

Sculpture
Garden

Perched
Wetlands

Ideal
Stream
Meanders

Perched
Wetlands

Reach 3 - Perspective

The Hospital -
Main Building



Stormwater
Wetland

Perched
Stormwater
Wetland

Stormwater
Dissipation
Pools

Secondary
Paths; Access to
Dix Edge Area

Greenway

Stabilized
Bank

Top of Bank

Rocky
Branch

Top of Bank

Boardwalk

Stormwater
Dissipation

Western
Boulevard

4

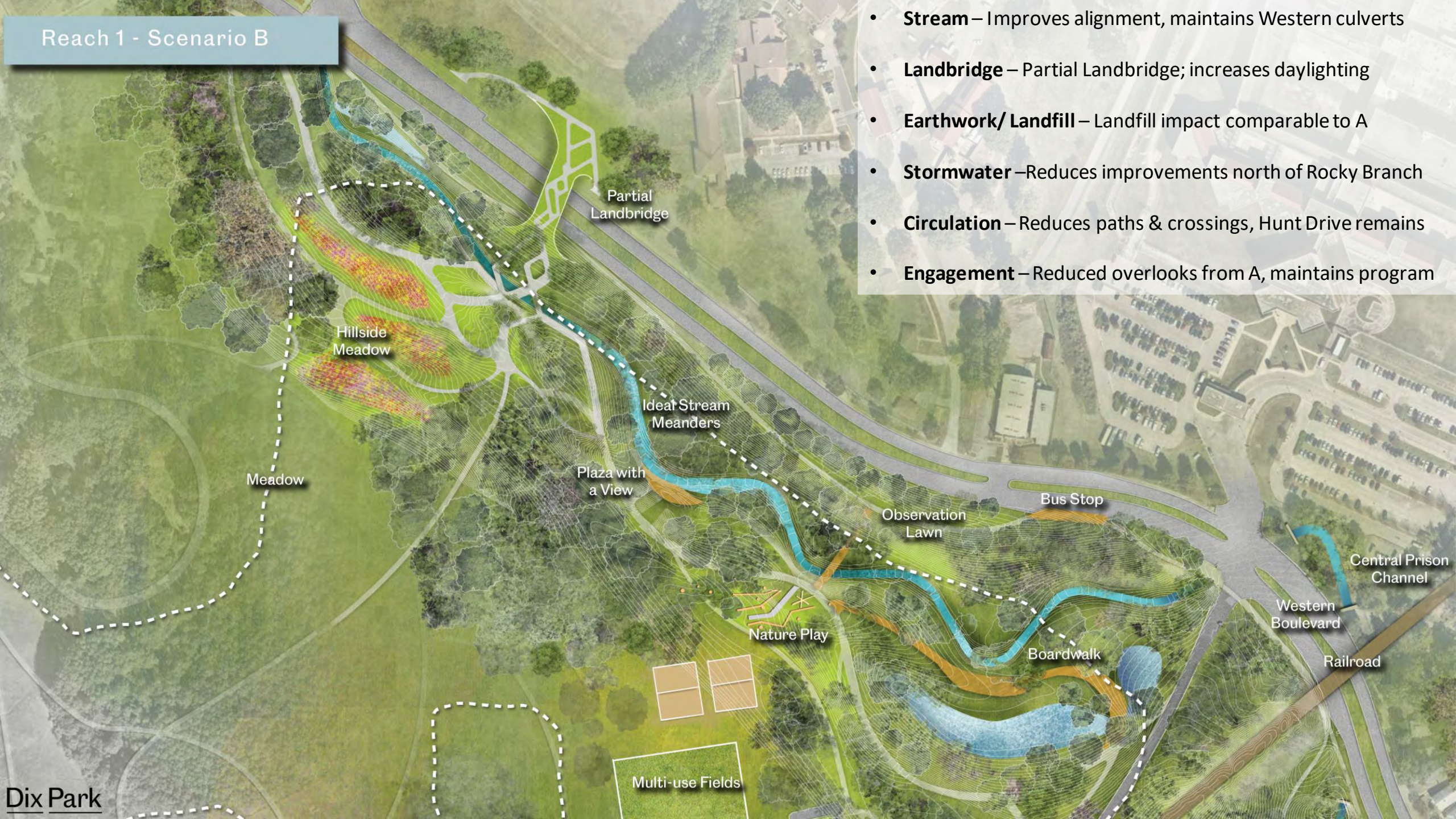


Dix Park

Overall Plan - Scenario B



Reach 1 - Scenario B



- **Stream** – Improves alignment, maintains Western culverts
- **Landbridge** – Partial Landbridge; increases daylighting
- **Earthwork/ Landfill** – Landfill impact comparable to A
- **Stormwater** – Reduces improvements north of Rocky Branch
- **Circulation** – Reduces paths & crossings, Hunt Drive remains
- **Engagement** – Reduced overlooks from A, maintains program

Reach 2 - Scenario B



- **Stream** – Maintains existing alignment, enhances
- **Earthwork/ Landfill** – Reduces impact from A
- **Stormwater** – Maintains stormwater opportunities
- **Circulation** – Reduced pathways from A
- **Engagement** – Reduces stream engagement from A

Reach 3 - Scenario B

- **Stream** – Optimal alignment
- **Earthwork/ Landfill** – Slightly reduced impact from Scenario A
- **Stormwater** – Significant stormwater opportunity, slightly reduced from A
- **Circulation** – Reduced number of pathways/ connections
- **Engagement** – Reduces engagement and access from A

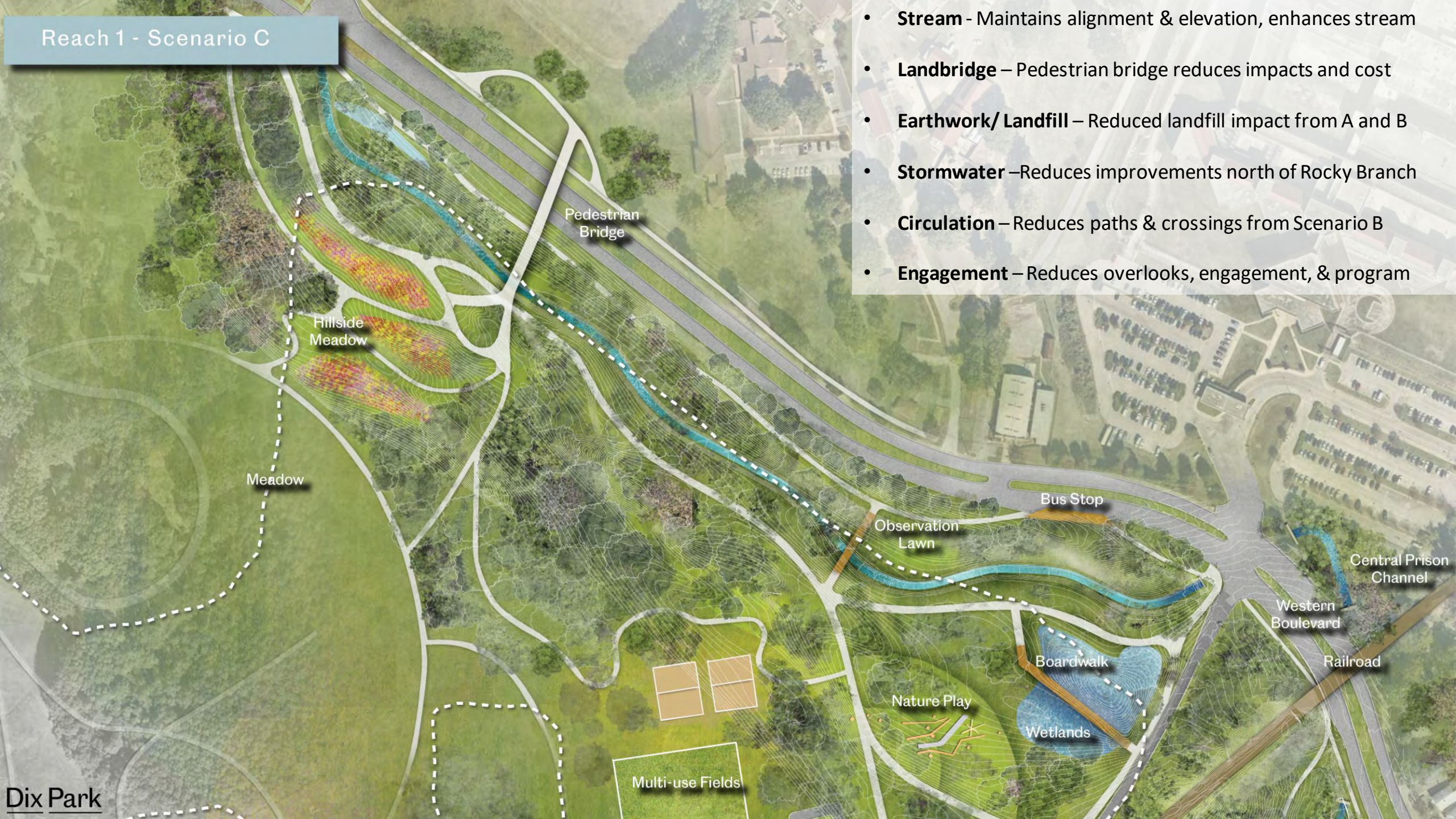


Overall Plan - Scenario C



Reach 1 - Scenario C

- **Stream** - Maintains alignment & elevation, enhances stream
- **Landbridge** – Pedestrian bridge reduces impacts and cost
- **Earthwork/ Landfill** – Reduced landfill impact from A and B
- **Stormwater** – Reduces improvements north of Rocky Branch
- **Circulation** – Reduces paths & crossings from Scenario B
- **Engagement** – Reduces overlooks, engagement, & program



Reach 2 - Scenario C



- **Stream** – Alignment comparable to B
- **Earthwork/ Landfill** – Slight reductions from B
- **Stormwater** – Unchanged from Scenario B
- **Circulation** – Reduced pathways from B
- **Engagement** – Unchanged from Scenario B

Reach 3 - Scenario C



- **Stream** – Maintains existing alignment, enhances stream & floodplain
- **Earthwork/ Landfill** – Reduces impact from Scenario B
- **Stormwater** – Significant stormwater opportunity, slightly reduced from B
- **Circulation** – Slightly reduces number of pathways from Scenario B
- **Engagement** – Consolidates engagement & access opportunities

Reach 1



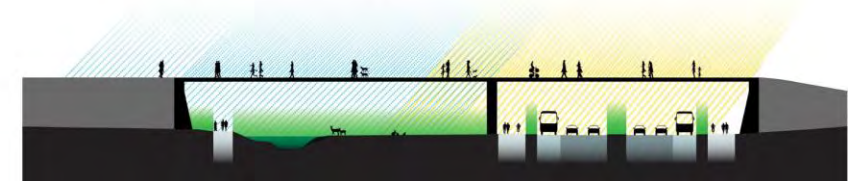
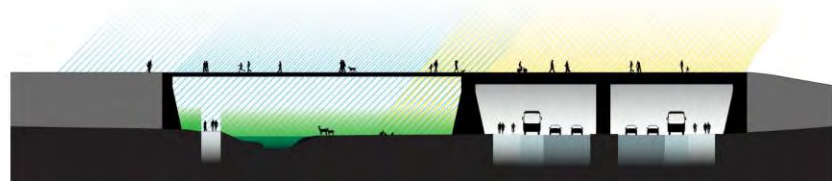
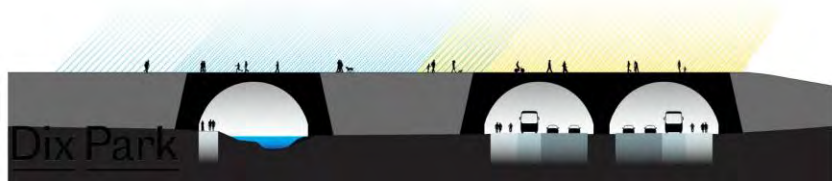
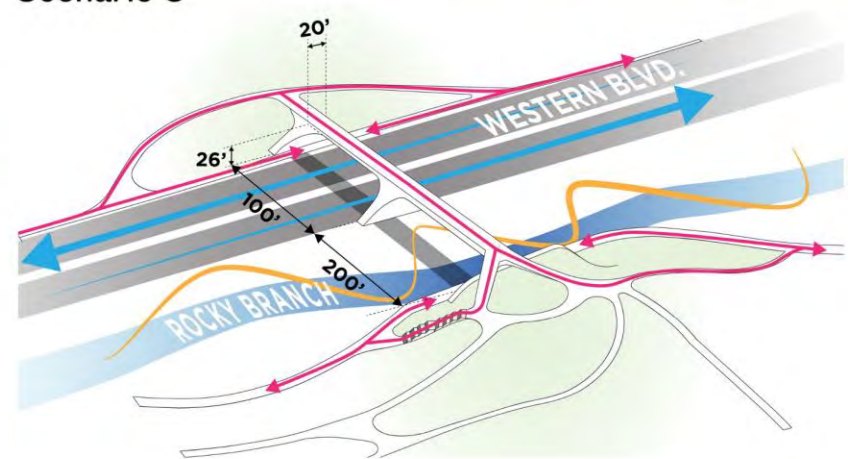
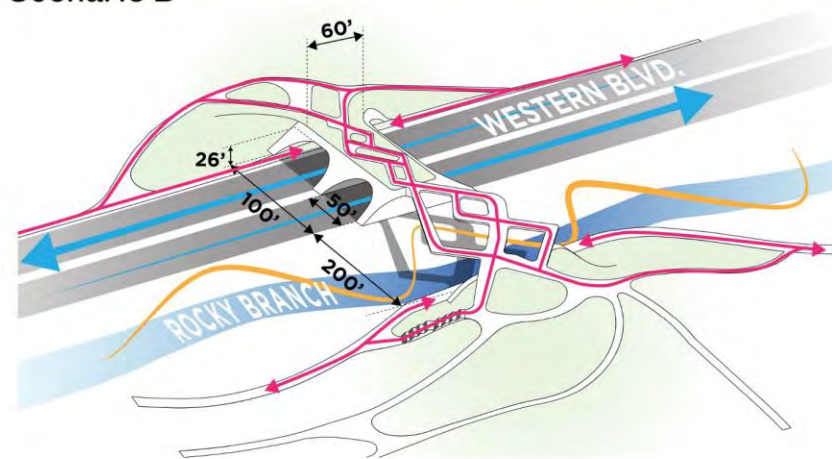
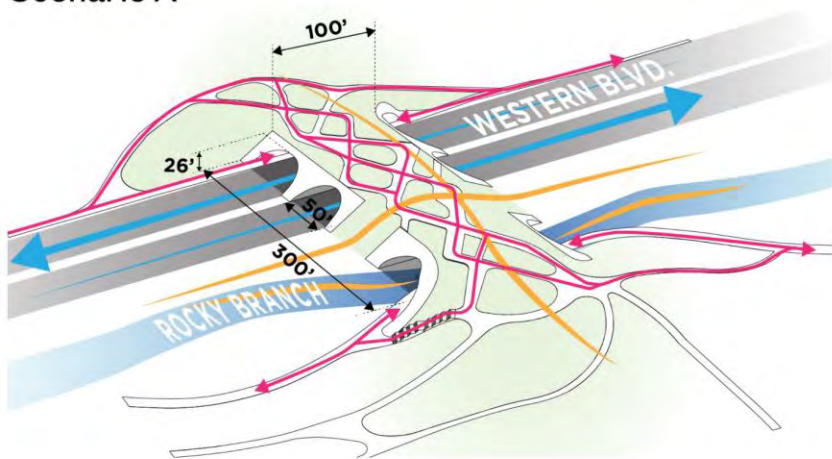
Scenario A



Scenario B



Scenario C



Key area of difference - Rocky
Branch onto Dix Park property



Scenario A



Scenario B



Scenario C



Scenario A



Scenario B



Scenario C

Let's Talk!

