

Addison City-Wide Trails Master Plan



Council Work Session - 2/23/2021

Agenda

- Process and Schedule
- Outreach and Engagement
- About the Plan
- Comprehensive Trail Recommendations
- Discussion
- Next Steps/Close



Process and Schedule

Project Schedule

Phase 1: Preparation

March – May 2020

Phase 2: Identification

June – August 2020

Phase 3: Confirmation

September – November 2020

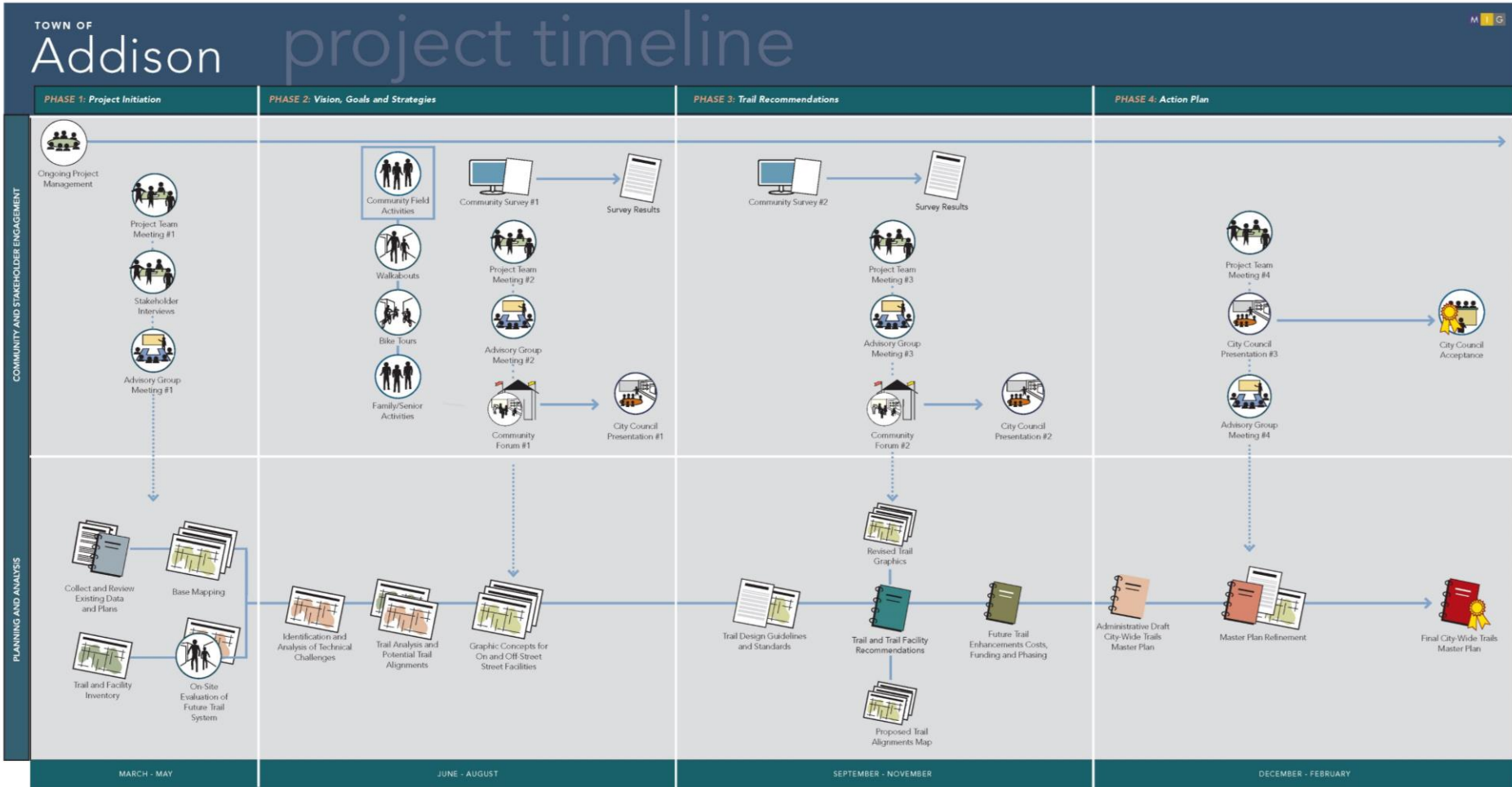
Phase 4: Codification

December – February 2020

*Community Engagement and Outreach in each phase



Project Timeline



Overview of Feedback Gathered Following August 25, 2020 Council Update

- **November-December:** Public, Council, Project Advisory Committee (Pac) and Staff
 - Preferred Alignments and Typologies
 - Crossings, Connections and Trailheads
 - Engagement: Maptionnaire, large map intercepts, Staff meetings, Council discussions
- **January:** PAC and Staff
 - Prioritization; action plan review
 - PAC and Staff meetings
- **February-March:** (Council, PAC and Staff)
 - Draft Plan review and refinement
 - Council Work Session
 - Council Presentation for Adoption – March 9th



Outreach and Engagement

Project Advisory Committee and Council Interviews

Key Themes

- Connections to existing trails, inside and outside the Town
- **Safety** – lighting, street crossings, biking
- Use residential/local streets for on-street trails
- **Barriers** – Midway, Tollway and Belt Line
- Neighborhood connectivity, North to South, East to West, **neighborhood loops**
- Planned Cotton Belt Trail opportunities – first and last mile, Trail-Oriented Development, regional connections
- Devise implementable/plausible solutions; articulate in **various scenarios/phases**

Project Advisory Committee and Council Interviews

Key Themes (cont.)

- **Off-street trails emphasis** – nature trails, multi-use trails, recreation
- **Walkers/dog walkers** are the primary users; walks within neighborhoods
- Need more **information about trails** – how to go from one place to another, online info, establish groups, wayfinding signage
- Connectivity to regional trails
- **Trail design and amenities** – signage, shade, seating, art, etc.
- Addison trails to set North Texas standard
- Establish areas of activity and meeting places along trails

Trails Questionnaire

Total records in survey: 706

Full Responses: 526

Partial Responses: 180

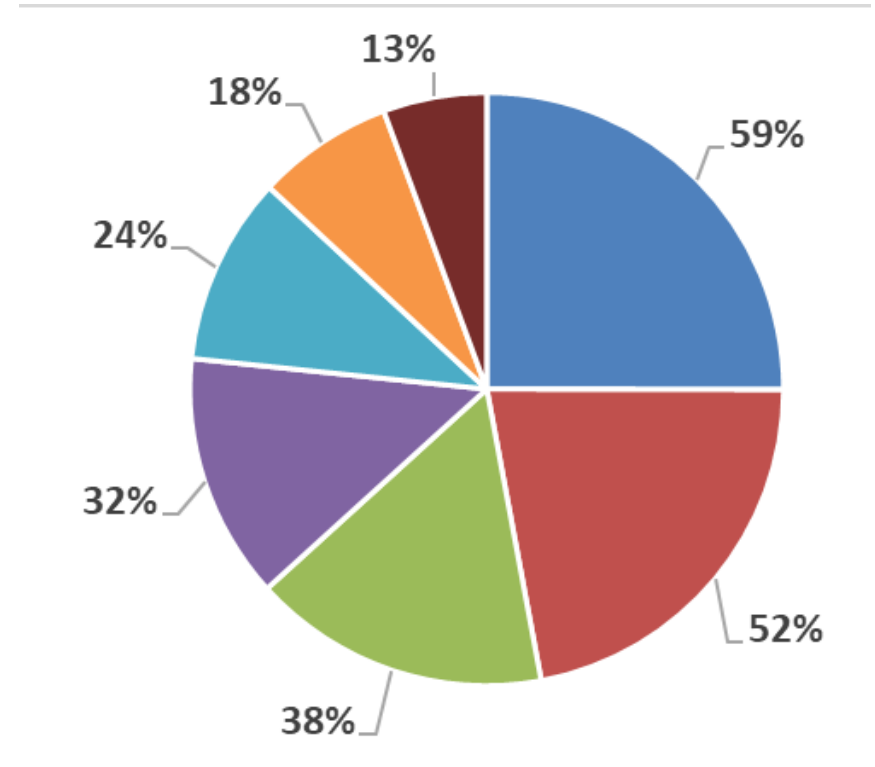
High-Level Takeaways

- Addison is perceived as an “easy” place to walk around, however, biking is perceived as more difficult, and many survey participants do not currently bike.
- The majority of survey participants are on trails every day – primarily for exercise and to be surrounded by nature – and value them as being extremely important to the community’s quality of life.

Trails Questionnaire - Trail Types

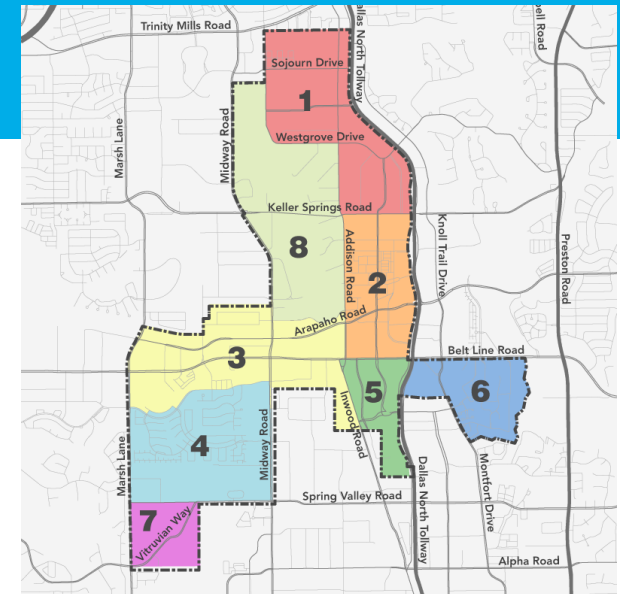
What types of trail connections do you want to see more of around Town? (Check all that apply.)

Answer	Count	Percentage
Off-street multi-use paths	417	59.07%
Wide walking paths and sidewalks	367	51.98%
Unpaved or park trails	270	38.24%
Multi-use paths in the public right-of-way	223	31.59%
Separated bike lanes	171	24.22%
Bike lanes	124	17.56%
Two-way cycle tracks	94	13.31%
Not completed or Not displayed	102	14.45%



Trails Questionnaire - Connections

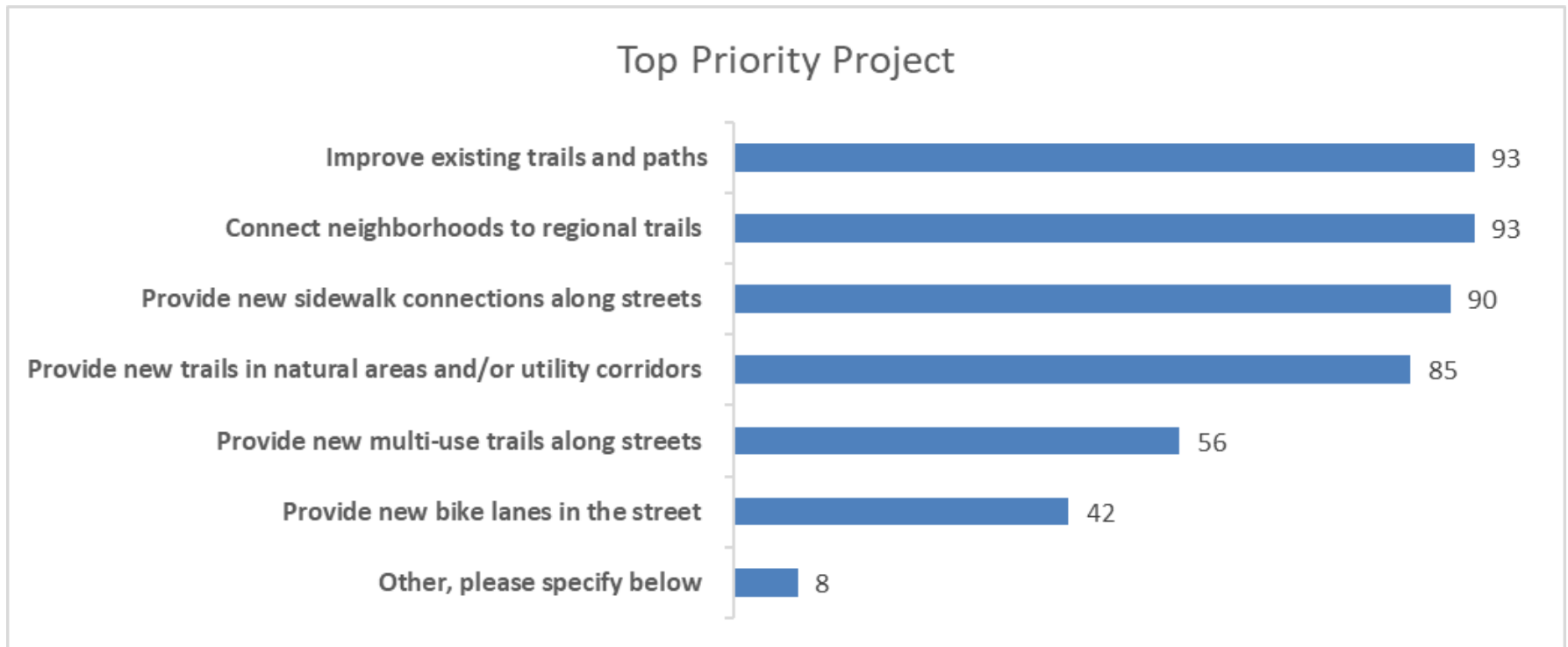
From where you live, where are trail connections most needed in Addison?
(Choose 1.)



		From where you live, where are trail connections most needed in Addison? (TO)							
		1. North Addison	2. Addison Circle	3. Belt Line	4. Les Lacs/Midway Meadows	5. South Quorum	6. East Addison	7. Vitruvian Park	8. Airport
Where do you LIVE in Addison? (FROM)	1. North Addison	15	4	5	1	1	0	0	0
	2. Addison Circle	9	8	21	5	6	8	2	0
	3. Belt Line	1	8	12	3	3	2	2	0
	4. Les Lacs/Midway Meadows	5	13	81	21	8	12	17	0
	5. South Quorum	0	1	1	0	1	1	0	0
	6. East Addison	3	10	20	1	17	15	1	0
	7. Vitruvian Park	9	19	47	48	9	7	48	0
	8. Airport	0	0	0	0	0	0	0	0

Trails Questionnaire - Priority Projects

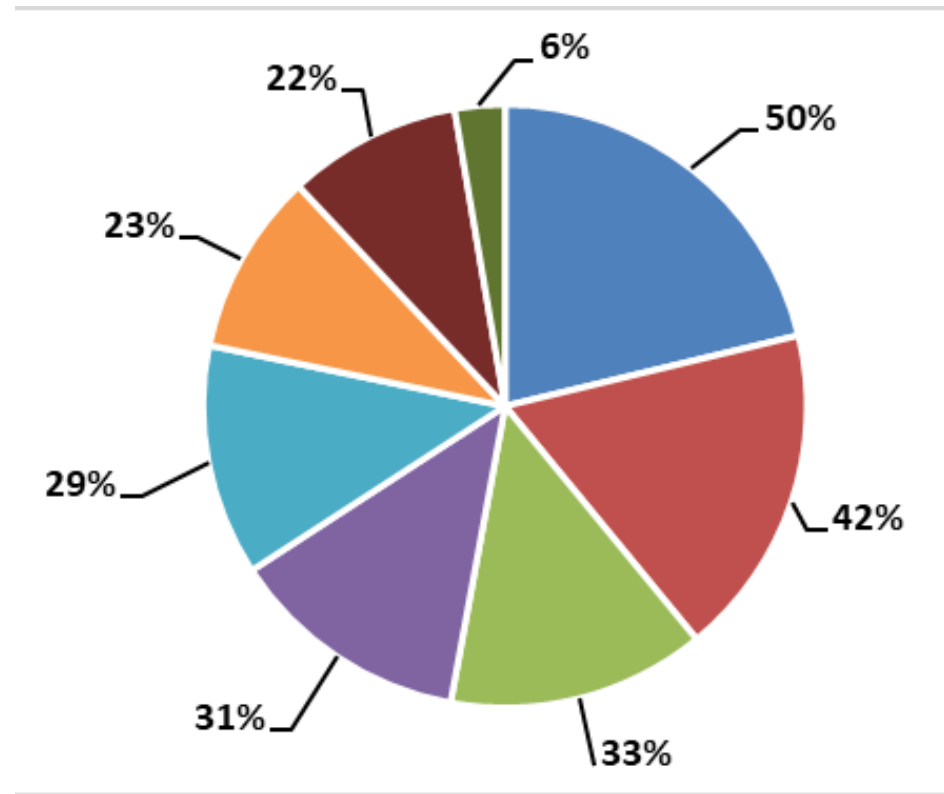
In your opinion, what are the highest priority projects from the following list? [Ranking #1]



Trails Questionnaire - Amenities

What type of amenities would you like to see on trails?
(Select all that apply)

Answer	Count	Percentage
Directional or wayfinding signage (to nearest places or trail connections)	356	50.42%
Small gathering areas (e.g., benches, viewpoints, pull-off areas)	299	42.35%
Art (sculptures, wall art, whimsical features)	232	32.86%
Attractive trail entryways or gateways	217	30.74%
Fitness areas or stations	208	29.46%
Nature play features for kids (e.g., climbing rocks, stepping stumps, spinner poles)	164	23.23%
Interpretive signage (history of the site, natural history)	156	22.10%
Other	45	6.37%
Not completed or Not displayed	159	22.52%





CITY-WIDE TRAILS VISION

Connected | Clean and Maintained | Beautiful | Natural | Convenient and Safe
Landscaped and Shaded | Multi-modal | Accessible | Active and Passive | Spacious

Community-Driven Guiding Principles

Nice to haves for Addison Trails

Connectivity

Supports recreational and commuting needs through trail access, filling network gaps, and changing vehicular circulation when needed.

Context-Sensitivity

Responds to the opportunities, constraints, and character of Addison by minimizing environmental impacts, reducing private property impacts, and accessing transit.

Diversity

Attracts a range of users by providing multiple active transportation modes on various trail types around the town.

Safety

Provides public safety by establishing low-stress facilities with minimal vehicle conflicts and visible corridors with crime prevention mechanisms.



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Community-Driven Trail Goals

Must haves for all Addison Trails

Internal Circulation

Enhance, bolster or complete internal circulation routes in all planning areas

Neighborhood Connections

Connect neighborhoods to adjacent planning areas with on or off-street trails

Addison Destinations

Provide access from all Addison neighborhoods to Addison destinations including parks and public facilities, commercial and employment centers, and entertainment districts

Regional Links

Link planning areas to regional routes and destinations through seamless trail connections



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GOALS

Internal Circulation

Enhance, bolster or complete internal circulation routes in all Addison Areas.

Neighborhood Connections

Connect neighborhoods to adjacent areas with on or off-street trails.

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Provide access from all Addison neighborhoods to Addison destinations including parks and public facilities, commercial and employment centers, and entertainment districts.

Regional Links

Link Addison Areas to regional routes and destinations through seamless trail connections.

Addison Staff Trail Criteria Input



Addison City-Wide Trails Master Plan Evaluation Criteria

*Scenarios shown on slide 23

		Criteria	Scenario 1	Scenario 2	Scenario 3
Connectivity	Supports recreational and commuting needs through trail access, filling network gaps, and changing vehicular circulation when needed.	1. <i>Low amount of network gaps (pedestrian system, bicycle routes, neighboring jurisdiction trails)</i>			
		2. <i>Has multiple access points connecting to the surrounding neighborhoods</i>			
		3. <i>Minimal vehicular circulation changes</i>			
Context-Sensitivity	Responds to the opportunities, constraints, and character of Addison by minimizing environmental impacts, reducing private property impacts, limiting facility costs, and providing access to transit routes.	1. <i>Provides transit access</i>			
		2. <i>System benefits outweigh cost of facility improvements</i>			
		3. <i>Limited environmental Impacts (drainage, vegetation, etc.)</i>			
		4. <i>Limited private property impacts</i>			
Diversity	Attracts a range of users by providing multiple active transportation modes on various trail types around the town.	1. <i>Provides a diversity of skill and comfort levels</i>			
		2. <i>Supports multiple active transportation modes</i>			
		3. <i>Avoids trail user altercations (separates or limits modes as needed)</i>			
Safety	Provides public safety by establishing low stress facilities with minimal vehicle conflicts and visible corridors with crime prevention mechanisms.	1. <i>Prioritizes low-stress facilities (separated and buffered)</i>			
		2. <i>Minimizes potential vehicle conflicts</i>			
		3. <i>Routes are visible from adjacencies and avoid areas prone to and crime and vandalism</i>			



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PRIORITIZATION CRITERIA

See Appendix C: Trail Prioritization Criteria

GOALS

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Regional Links

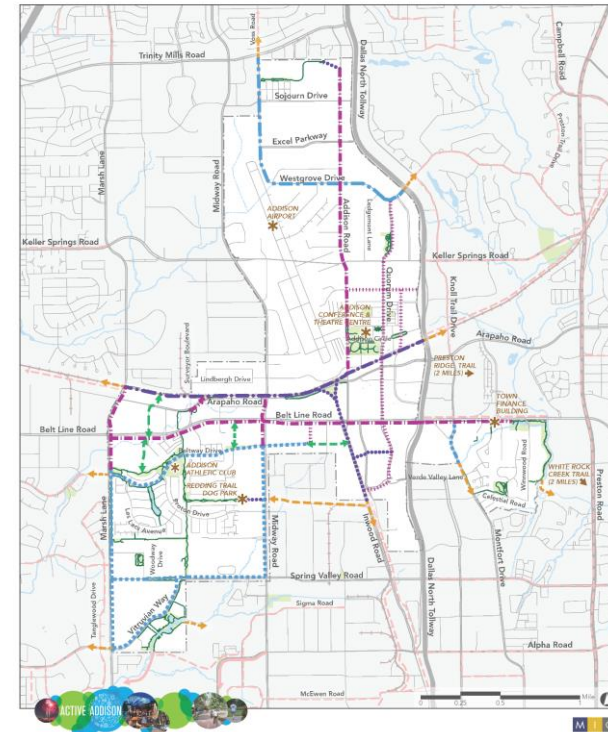
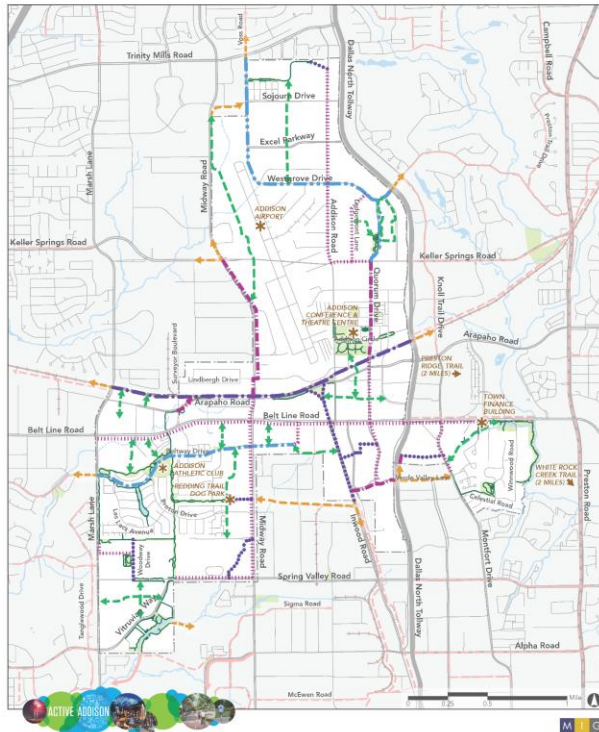
Link Addison Areas to regional routes and destinations through seamless trail connections.

PAC Scenario Input

SCENARIO 1: Low Stress Network

SCENARIO 2: Neighborhood Loops

SCENARIO 3: Direct Connections





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PRIORITIZATION CRITERIA

See Appendix C: Trail Prioritization Criteria

RECOMMENDATIONS

See Chapter 4: Comprehensive Recommendations

Foundational Elements | Recommended Network | Trail Design Standards and Guidelines

See Chapter 5: Priority Projects

Major East to West Alignments | Major North to South Alignments | Local Connectivity | Partnerships

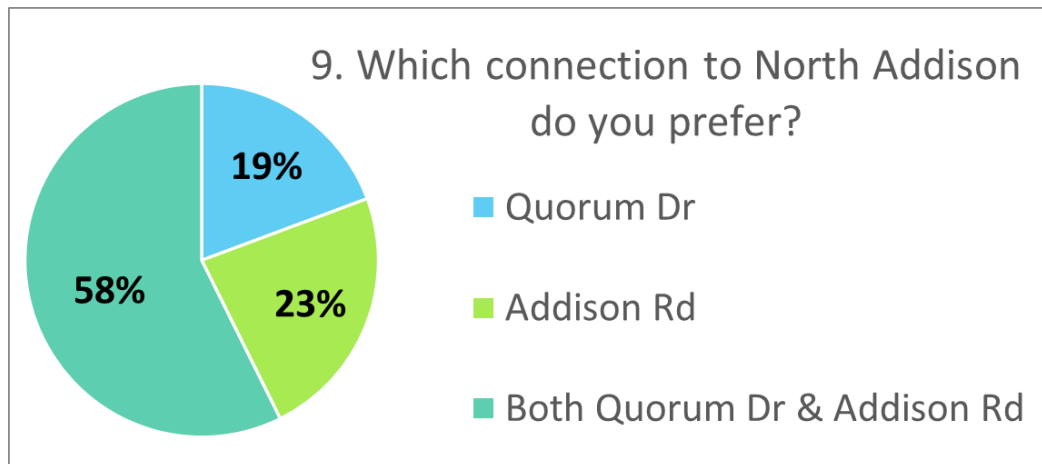
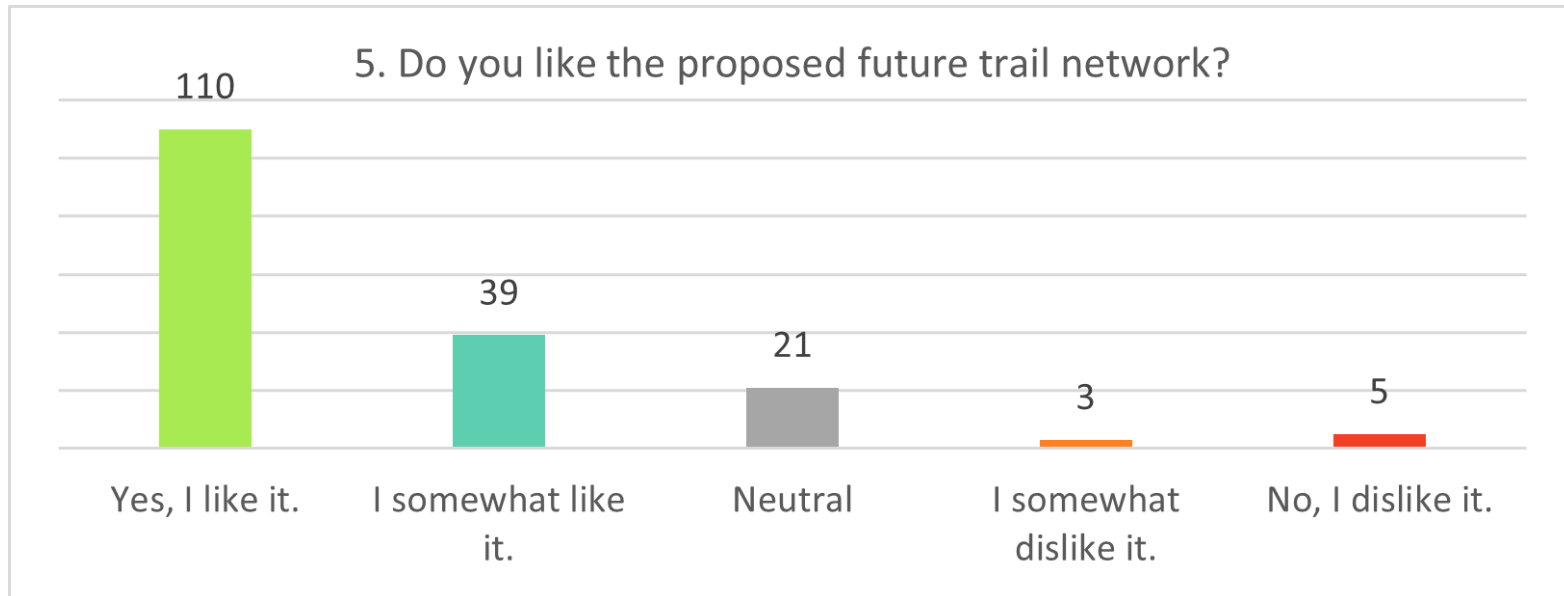
Preferred Trail Network Development

Feedback was a critical part of developing the preferred trail network.

- Three large map pop-up events
 - 150 residents
- Draft future trail network questionnaire
 - Over 250 residents
- Assessed proposed draft alignments and trail typologies
- Added new trails, trailheads and identified important connections

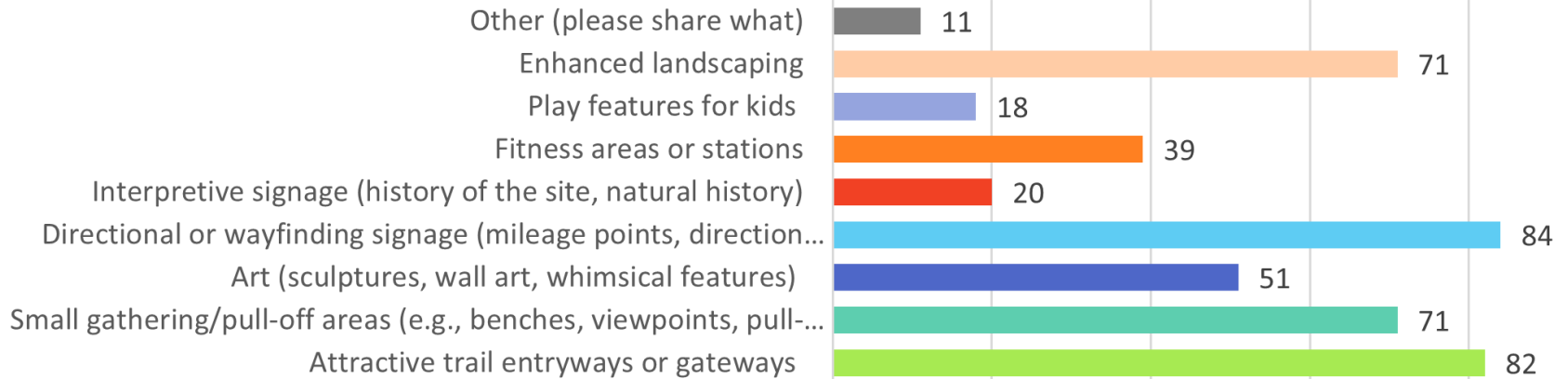


Preferred Trail Network Questionnaire

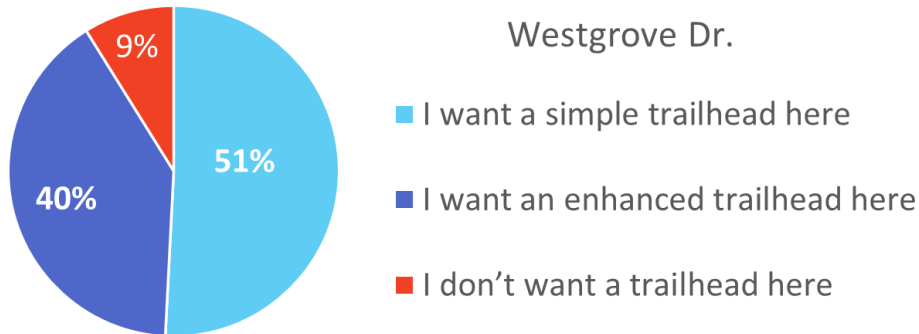


Preferred Trail Network Questionnaire

11. Pick your top three choices for amenities that should be included along the Cotton Belt Trail in Addison.



12. Trailhead at North Addison Park and Westgrove Dr.



About the Plan

Plan Content

Chapter 1: INTRODUCTION

- Purpose of the Plan
- Plan Development Process
- The Future of Addison Trails
- Plan Organization and Overview

Chapter 2: EXISTING CONDITIONS

- The Addison Community
- Snapshot of the System
- Opportunities and Constraints

Chapter 3: COMMUNITY VISION AND GOALS

- Outreach and Engagement Process
- Community Input Themes
- Vision Framework

Plan Content

Chapter 4: COMPREHENSIVE RECOMMENDATIONS

- Foundational Elements
- Recommended Network
- Trail Design Standards and Guidelines

Chapter 5: PRIORITY PROJECTS

- Major East to West Axes
- Major North to South Axes
- Local Connectivity
- Partnerships
- Action Plan

APPENDICES

- Appendix A: Trail Inventories
- Appendix B: Community Engagement Summaries
- Appendix C: Trail Prioritization Criteria
- Appendix D: Funding Strategies
- Appendix E: Master Transportation Plan Revisions

Trail Recommendations

Types of Trails

Wide walking paths



Bike lanes



Cycle tracks



Multi-use paths in the ROW



Off-street multi-use paths



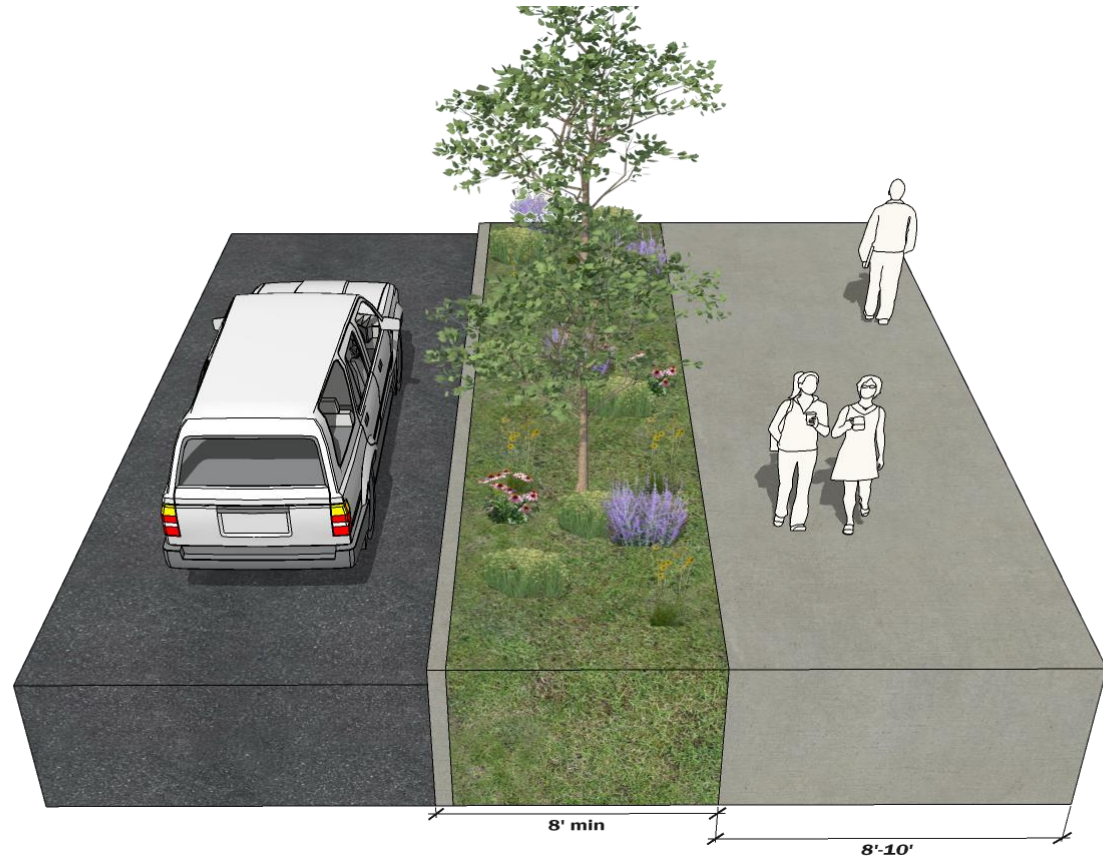
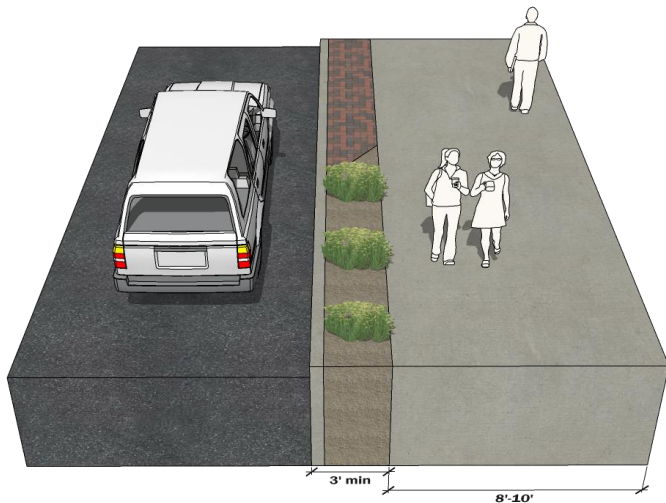
Unpaved or park trails



Trail Typologies

Wide Sidewalk w/ Buffer

- 8-10 feet wide
- 8' buffers (min. of 3')



Note:

- Buffers must comply with the Master Transportation Plan or minimum standard which ever is larger

Trail Typologies

Shared-Use Path Along Street

- 10-14 feet wide
- 8' buffers (min. of 3')

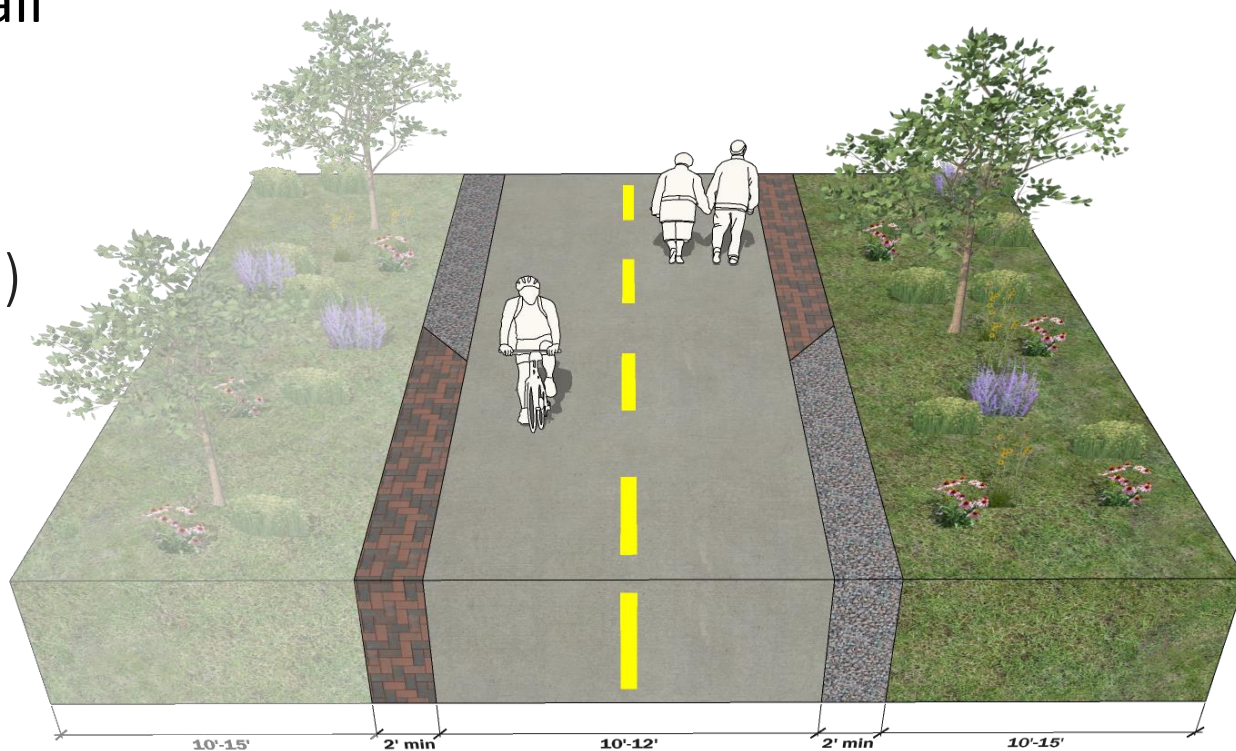
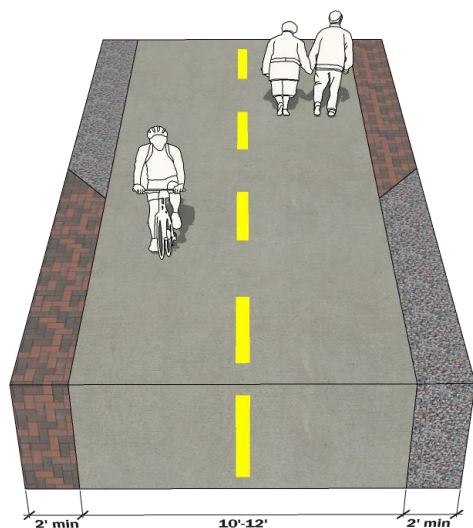


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Trail Typologies

Local Shared-Use Trail

- 10-12 feet wide
- 10-15' vegetative buffers (min. of 2')



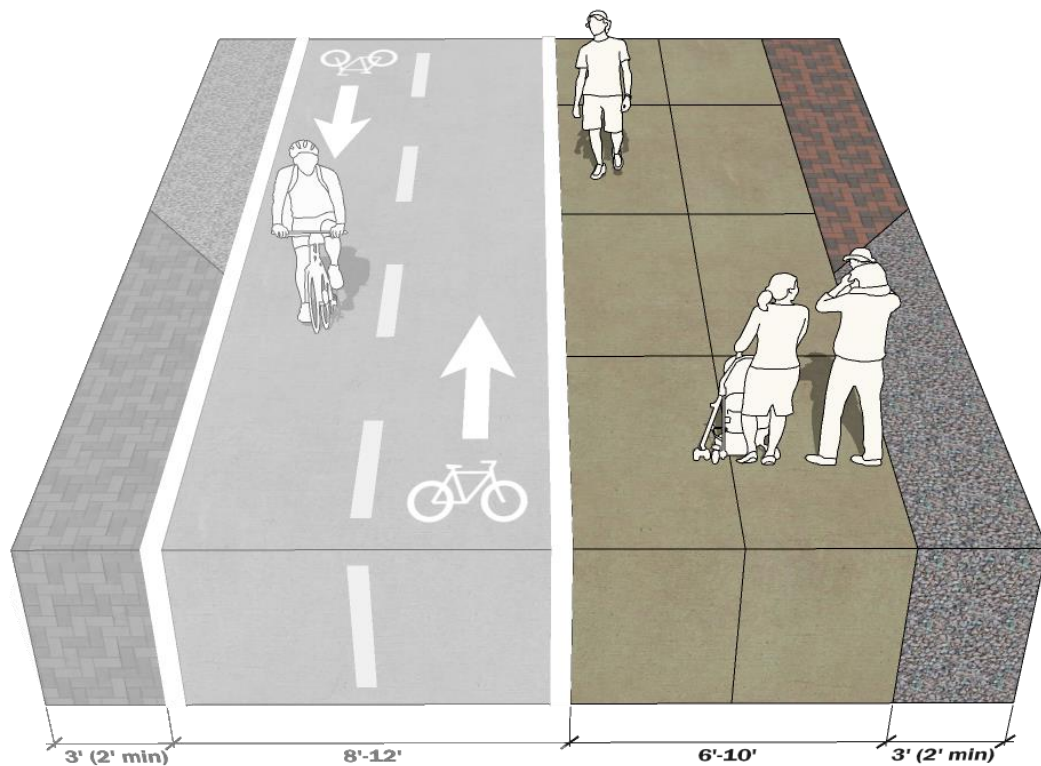
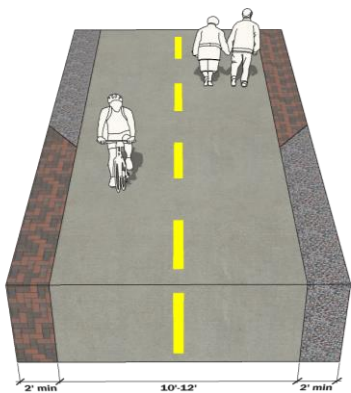
Note:

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Trail Typologies

Regional Shared-Use Trail

- 10-12' feet wide
- 2-4' minimum buffer; preferred landscaped screening
- 6-10 feet of additional trail width to separate



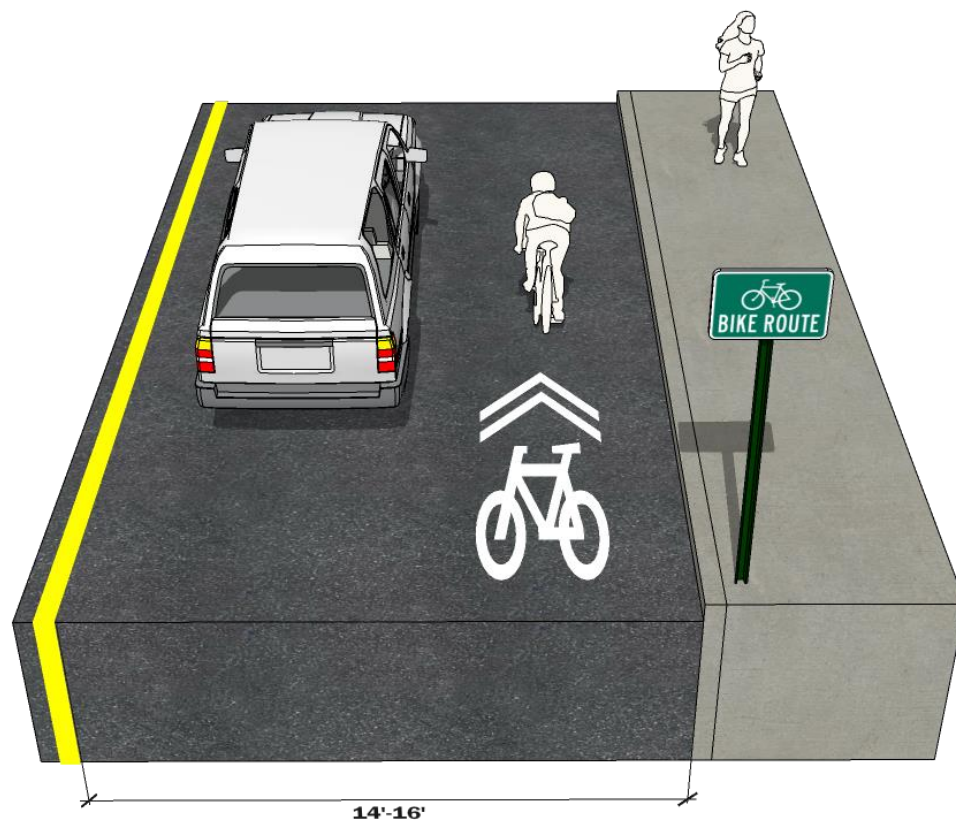
Note:

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Trail Typologies

Bike Boulevard

- Streets with lower traffic
- Sharrow markings on the roadway
- Wayfinding signage



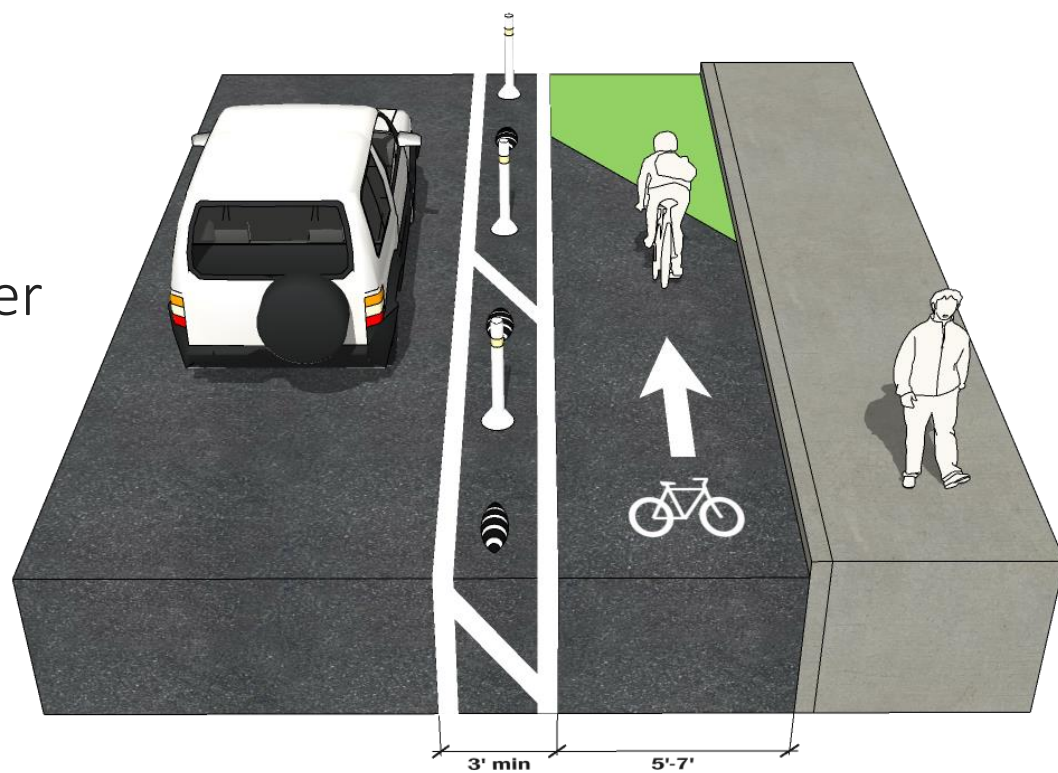
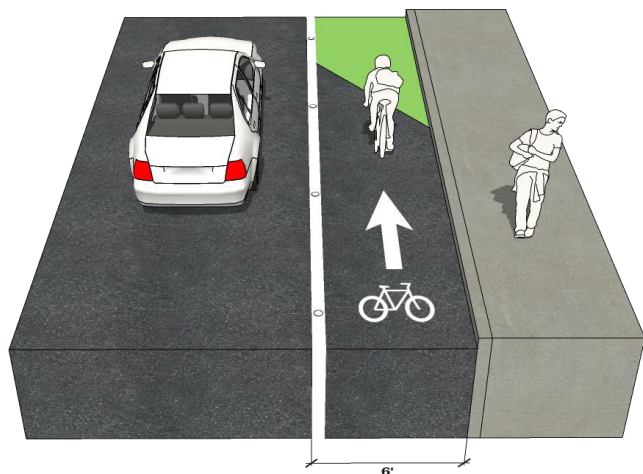
Note:

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Trail Typologies

Buffered Bike Lanes

- Width of 5-7 feet
- Bicycle stencils
- 3-foot min. stripped buffer with physical separators



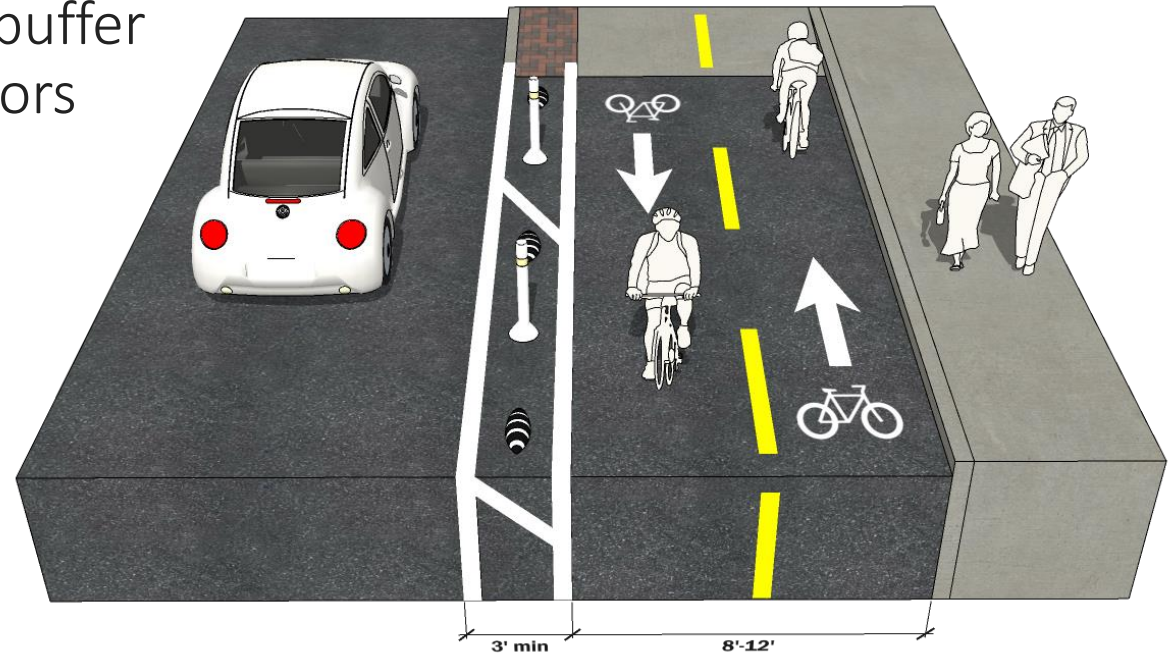
Note:

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Trail Typologies

Two-Way Cycle Track

- 8-12 feet in width
- Bicycle stencils
- 3-foot min. stripped buffer with physical separators



Note:

- Buffers must comply with the Master Transportation Plan or minimum standard which ever is larger

Future Trail Network

Legend

PROPOSED ADDISON TRAILS

- Wide Sidewalk w/ Buffer
- Shared-Use Path Along Street
- Local Shared-Use Trail
- Regional Shared-Use Trail
- Bike Boulevard
- Buffered Bike Lane
- Buffered 2-way Cycle Track
- Trail from Prior Phase(s)

SUPPORTING SYSTEMS

- Existing Addison Trail
- Major Destination
- Potential Trailhead
- Primary Crossing Improvement
- Partnership Connection
- Existing Adjacent Jurisdiction Trail
- Proposed Adjacent Jurisdiction Trail

BASE MAP

- Town of Addison Boundary
- Parks/Open Space
- Water Body
- River/Stream
- Creek Channel
- Rail

Legend

PROPOSED ADDISON TRAILS

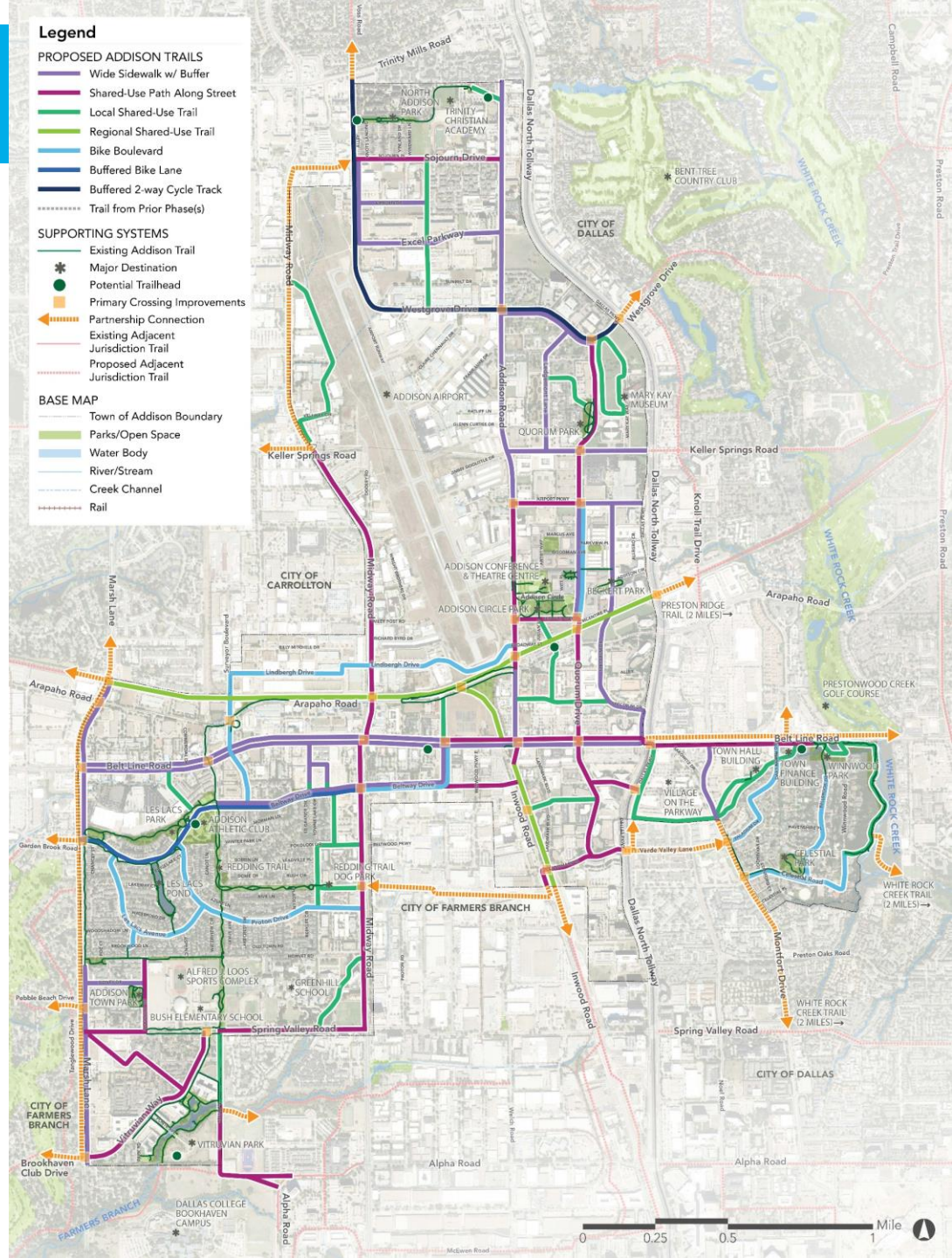
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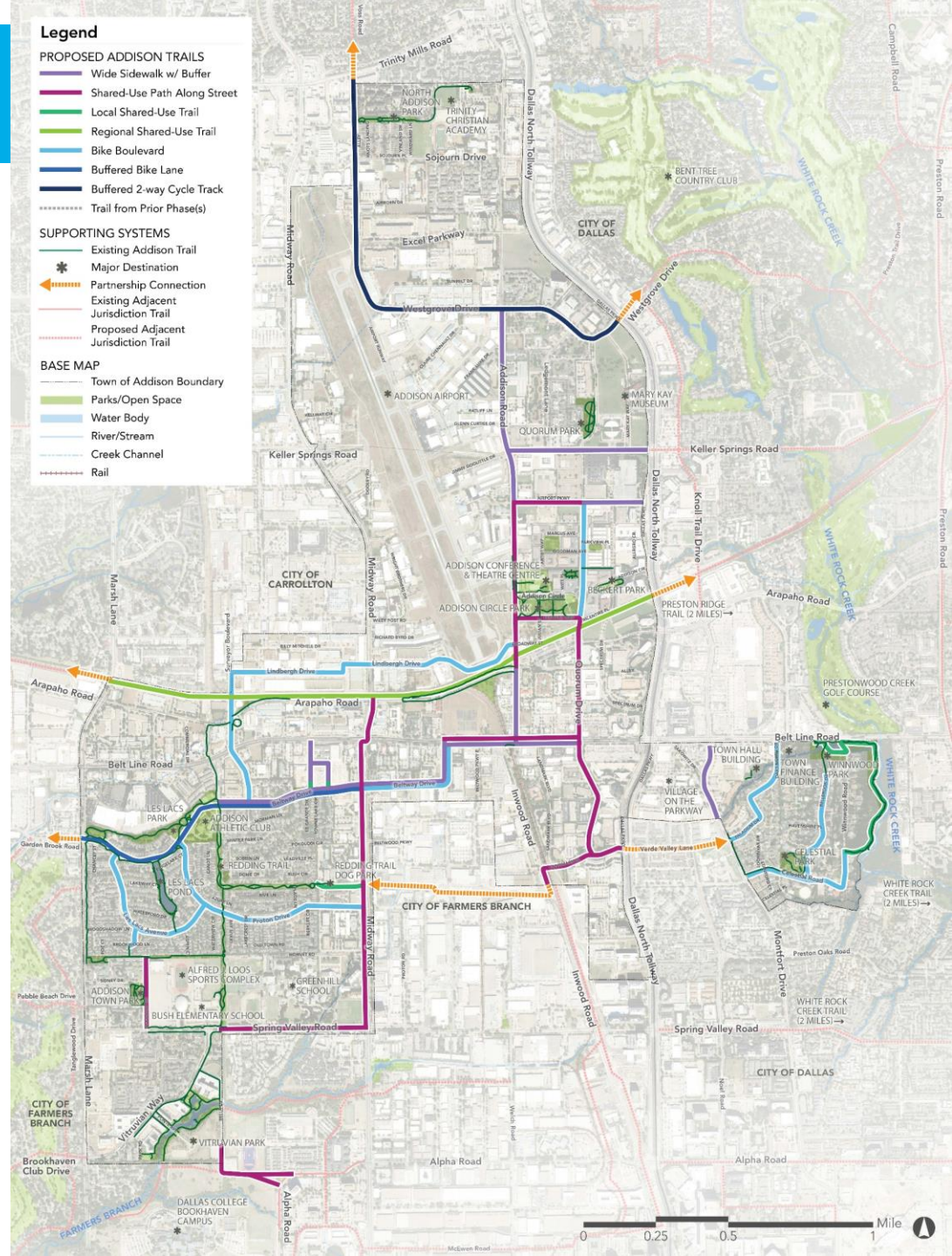
Phase 1

- 0-5 Years
- \$17,500,000* (approx.)
- 35.2% of total cost
- 85% overlap with MTP

Phase	Total Cost	Percent of Total Cost
Phase 1 Funded**	\$5,169,890	10.5%
Phase 1 Planned	\$12,075,989	24.6%

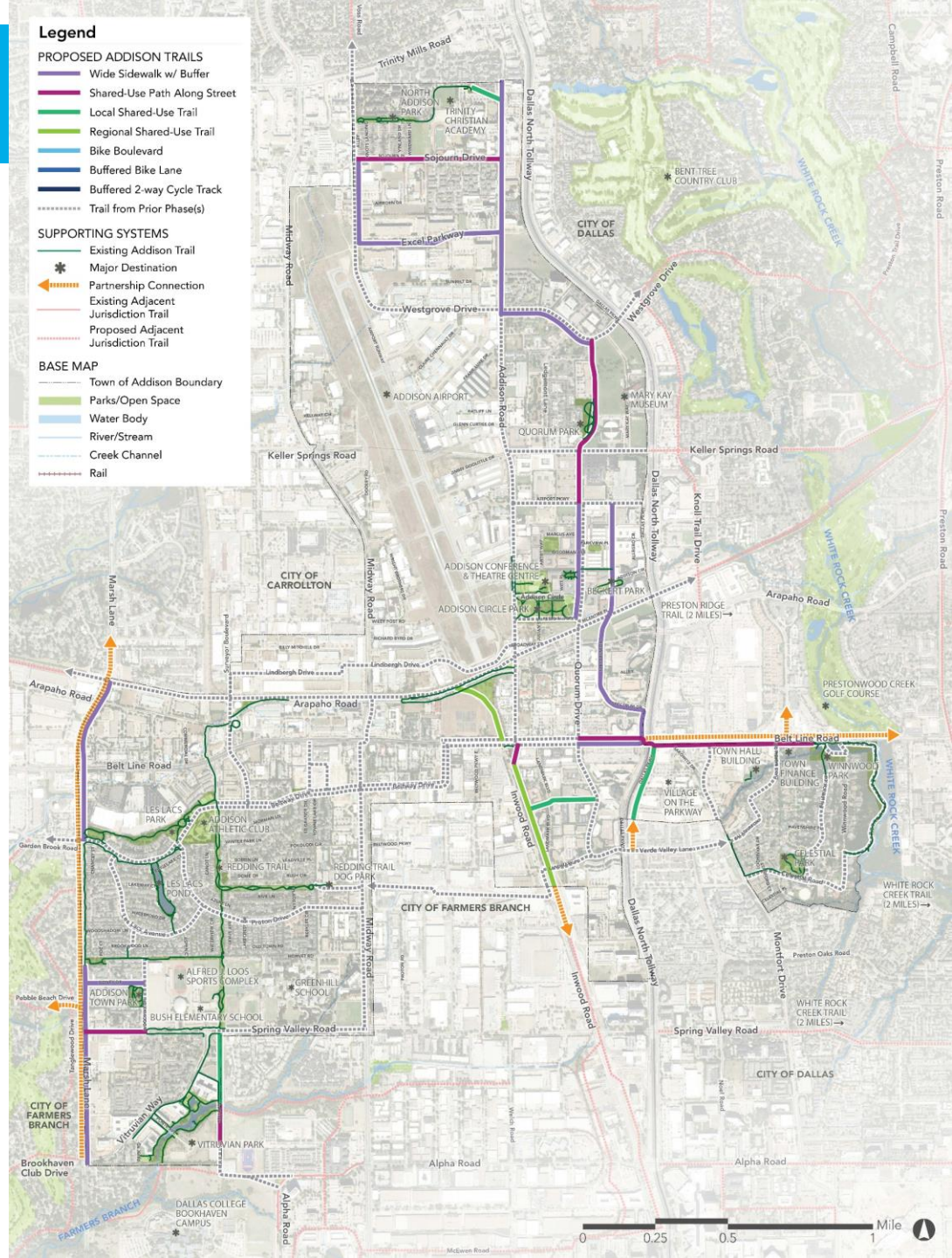
* Construction Costs Based on 2021 costs pricing.

** Includes Midway Road Trail, Funded Portion of the Cotton Belt Trail and Bond Funded Trails.



Phase 2

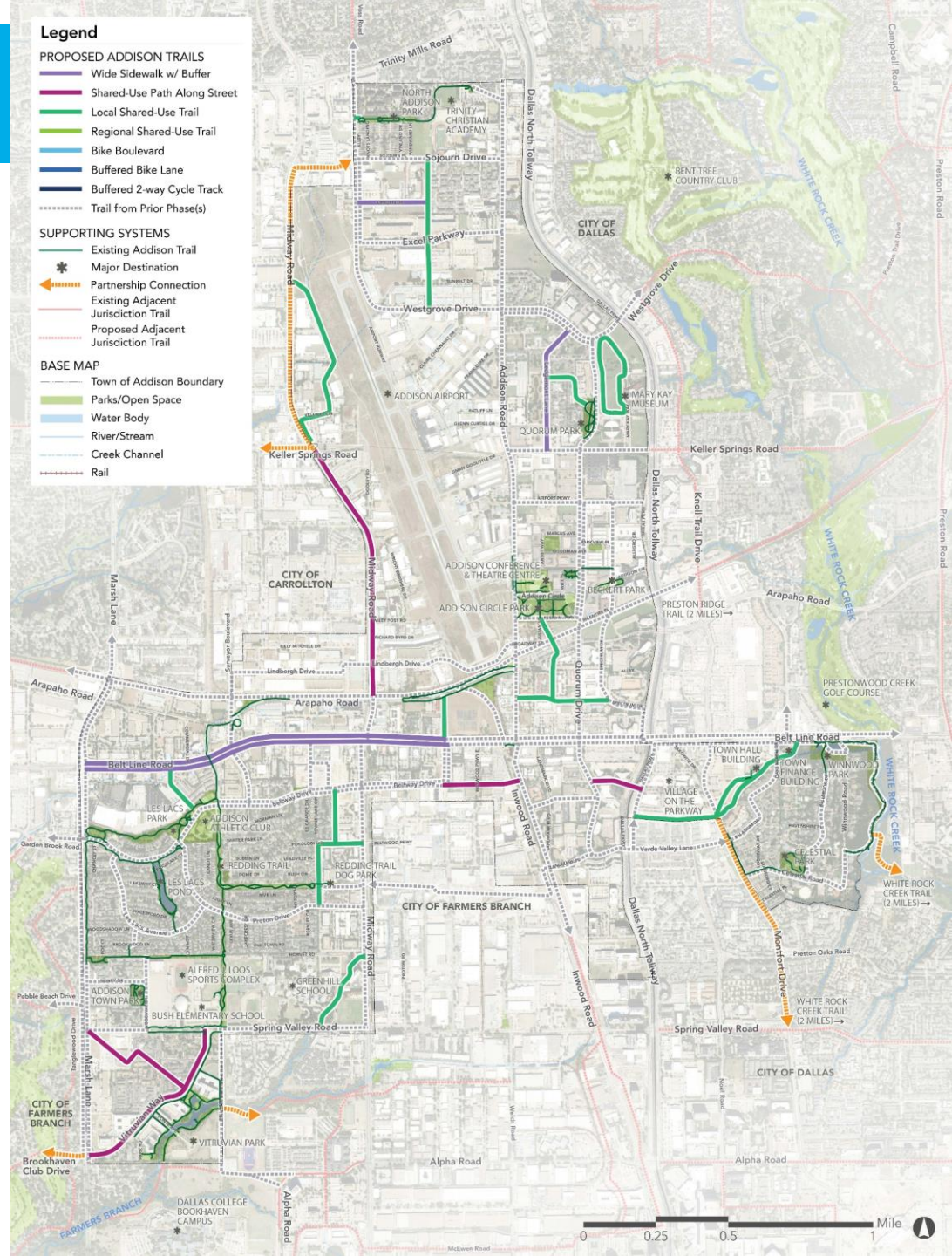
- 6-10 Years
- \$12,700,000* (approx.)
- 25.9% of total cost
- 66% overlap with MTP



* Construction Costs Based on 2021 costs pricing.

Phase 3

- 11+ Years
- \$19,100,000* (approx.)
- 38.9% of total cost
- 43% overlap with MTP



* Construction Costs Based on 2021 costs pricing.

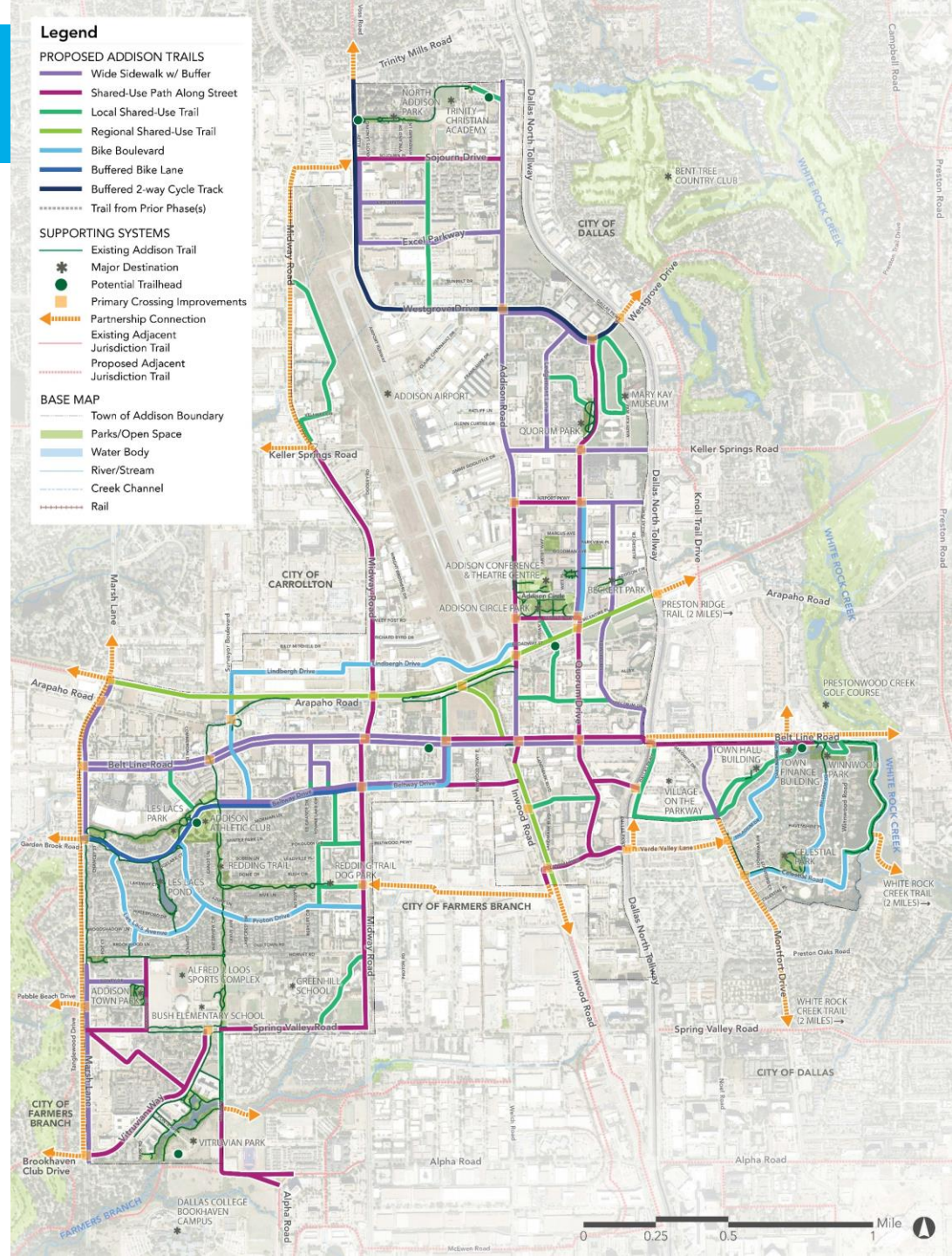
** Includes Midway Road Trail, Funded Portion of the Cotton Belt Trail and Bond Funded Trails.

Future Trail Network

- \$49,300,000 (approx.)
- \$1.6 Million per year of new public costs

Notes:

- Cost does not include partnership connections
- Anticipate 30% project overlap with MTP projects (cost share)
- 5% of the cost covered by private developers
- New public costs = \$31.9 Million
- Costs are for construction only and do not include maintenance



Discussion

Addison City-Wide Trails Master Plan



Council Work Session - 2/23/2021