

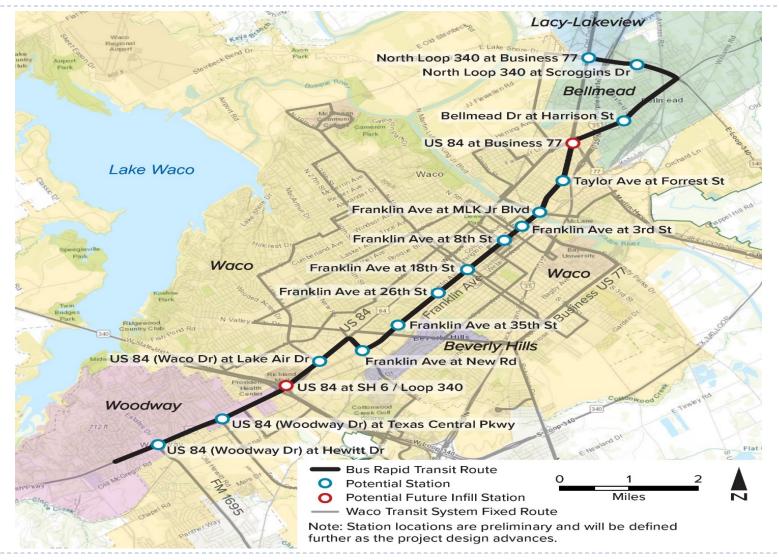
Agenda

- Project Introduction and Overview
- Project Team
- Review Feasibility Study
- Project Scope and Task Overview/Status
- Public Involvement Approach and Schedule
- Questions

Project Introduction & Overview

Waco BRT

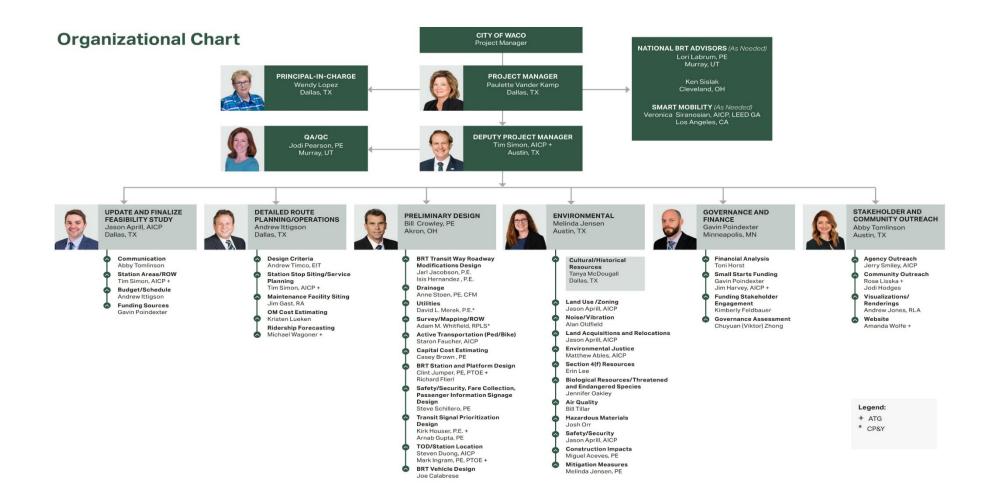
Project Route Map



Project Team and Project Status

Waco BRT

Key Staff



Project Scope (Project Development)

- Detailed Route Planning
- Updating the Feasibility Study
- Ridership Update
- Preliminary Design
- Environmental Review and Clearance
- Governance and Financial Assessment
- Stakeholder and Community Outreach

Early Project Tasks

- Draft Project Workplans
- Public Involvement Plan (PIP)
- Review GIS and CAD files
- Existing Conditions Update
- Updating Ridership
- Conduct Agency Coordination
- Develop Design Criteria (Basis of Design)
- Public Outreach to Re-Introduce the Project
- Station and Maintenance Location Siting

Project Schedule

Waco BRT Schedule																																					
Preliminary Engineering and NEPA Review	2020											2021																									
	August September						October				Norember			December		r	January		ry	February				March			April	May	June	July	Aug	Sep	t Oct	Nov	v Dec		
NTP (August 3, 2020)	*			T								M																									
Project Management											T	П														Τ											
Purpose and Need / Existing Conditions	П			T							Т			П	П							П			T												
Stakeholder and Community Outreach				T)	(T					X							X														
Detailed Route Planning	П			Τ							Τ	Г			П							П			T												
Design Criteria									T		Т	Г		П	П							П			T												
Station Stop Siting																																					
Maintenance Facility Siting				Т							T				П				T			П			T	Τ											
Ridership Projections																												,									
Update and Finalize Feasability Study																																					
Preliminary Design																									T												
Environmental Review and NEPA																																					
Governance Plan												П																									
Stakeholder Financial Commitment												П																									
Financial Assesment (Small Starts off cycle)												V																									
Project Justification Ratings Analysis (off cycle)											Ι	Ľ																									
Project Justification Ratings Analysis																																					

X – Public Meetings

Project Goals

- Project Goals (from Feasibility Study):
 - Increase the efficiency of WTS operations and decrease overall transit travel times
 - Increase access to employment opportunities and critical services
 - Leverage available local, state and federal funding opportunities
- Other Potential Project Goals?
 - Provide safe and reliable transit service
 - Support and promote economic growth

Review of Feasibility Study

Waco BRT

What is BRT?/Why BRT?

- Limited stops results in faster operations
 - Bellmead to Woodway
 - Current system: up to 110 minutes
 - With BRT: 50 to 65 minutes
- Significantly greater service frequency
 - Current system: I bus per hour, per route
 - With RTC: I bus every 15 minutes (peak service)
- Stations are a focus for redevelopment efforts
 - Transit Oriented Development (TOD)
 - Convenient transfers to other fixed routes or demand response services
- Provides safer and more accessible service options
 - ADA accessible stations
 - Enhanced bicycle / pedestrian accessibility



Review of Feasibility Study

Criteria	Alignment 2 - LPA
Mobility Impacts	Medium
I-way Travel Time	65 min (NB) 50 min (SB)
'System / RTC' Ridership (year)	3,990 / 900 (2023) 4,630 / 980 (2040)
Economic Development	High
Safety	High
(Conceptual) Cost	\$18.3 M – \$19.4 M
Community Support	Ongoing
Overall Rating (Aggregate)	High

Review of Feasibility Study

Preferred Alignment #2

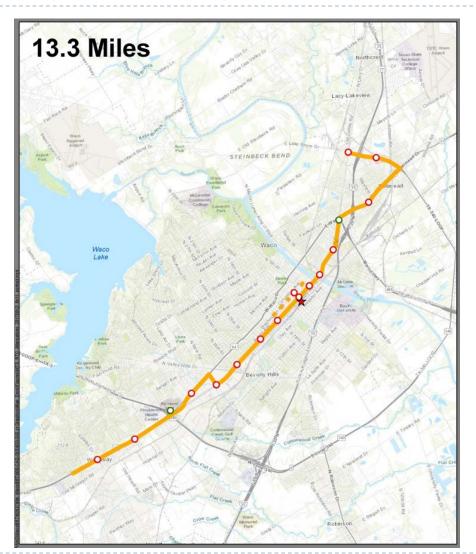
- Capital cost: \$18.3M to \$19.4M
- Annual operating cost: \$3.5M to \$4M
- Ridership (System / RTC)*:
 - > 3,990 / 900 (year 2023)
 - > 4,630 / 980 (year 2040)

2-way operation on Franklin

- Better safety, connectivity and service operations
- More Transit Oriented Development opportunities

Increase Hours of Operations

- Terminate at 10:00 pm weekdays
- Add Sunday service

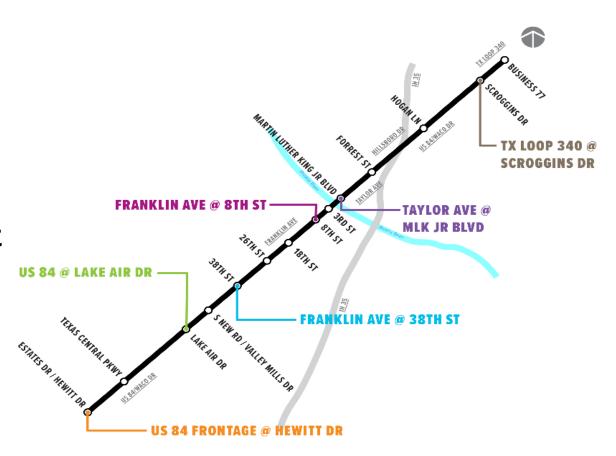


Project Scope and Task Overview/ Status

Waco BRT

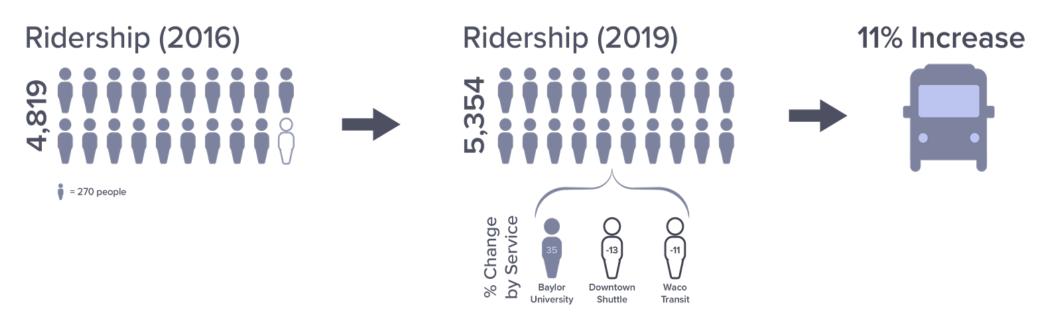
Update Feasibility Study

- ▶ LPA approved 2018
- Purpose and Need
- Station Areas/ROW
- Funding Sources/Costs
- Ensure LPA aligns with present day conditions
 - Washington/Franklin DT couplet conversion
 - Ridership changes



Update Feasibility Study

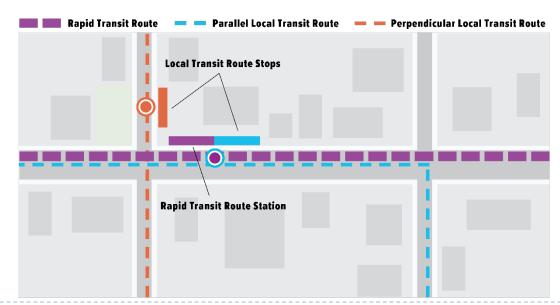
Change in Ridership All Transit Providers

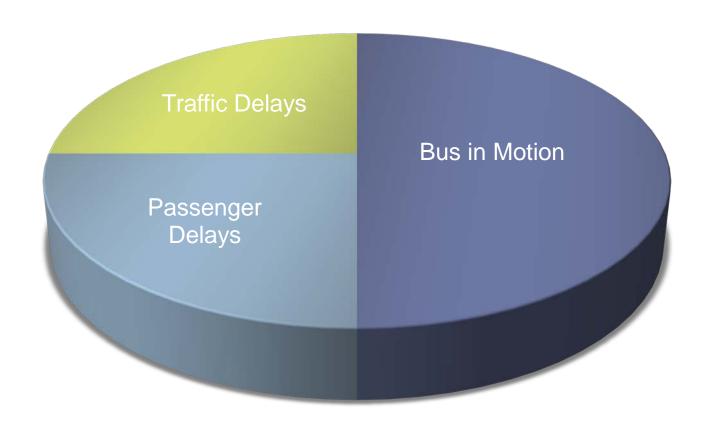


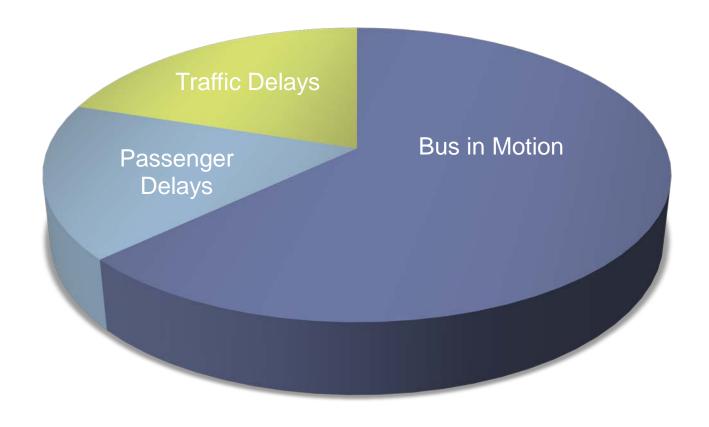
Route Planning

- Develop BRT service plan
 - Travel time
 - Dwell/Boarding Time
 - Service hours
 - Frequency
 - Peak pullout
 - Service days
 - O&M Costs

- Assessment of existing bus service within the corridor
- Update service to connect with BRT and optimize the overall system

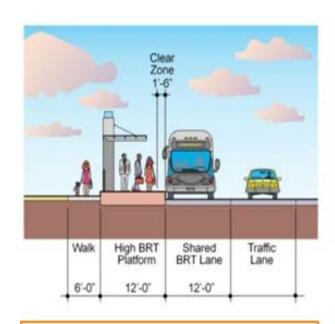


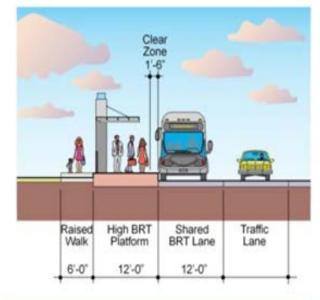


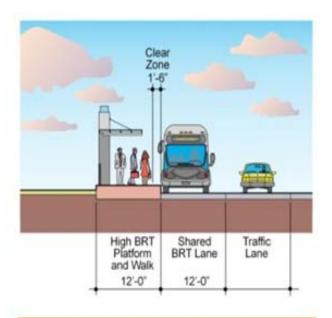


BRT Toolbox	
	Transit Signal Priority
Operational Improvements	Wider Station Spacing
	Off-Board Fare Collection and Multi-Door Boarding
	Enhanced Stations
Customer	Real-Time Information
Amenities	Multi-Door / Level Boarding
	Rapid Transit Vehicles / Branding

Raised Platforms







High BRT Platform + Separate Walk High BRT Platform + Raised Walk High BRT Platform + Combined Walk

▶ Raised Platforms costs

- Increase Platform Footprint
- Require Careful Site Design

Raised Platforms benefits

- Improve Accessibility
- Reduce Dwell Time



- Station Amenities Affect Cost
 - Capital Cost
 - Operations & Maintenance





- Battery Electric Bus
- Comfort Station









Environmental Review / NEPA

- ▶ NEPA National Environmental Policy Act
- Environmental impacts anticipated to be minimal
 - Project will be primarily contained within existing ROW and maintenance facility within existing WTS property
- ▶ AECOM will complete NEPA documentation for the project in accordance with 23 CFR Part 771.118 FTA Categorical Exclusions (CE)
 - FTA Region 6's "D-list CE" is a streamlined NEPA document consisting of a worksheet with a checklist, brief narrative components and supporting documentation.

Environmental Review / NEPA

Environmental Resources to be Reviewed:

Land Use/Zoning Wetlands

Traffic Water Quality

Noise*/Vibration Air Quality

Environmental Justice Hazardous Materials

Historic/Cultural Resources* Prime/Unique Farmlands

Section 4(f) Resources* Safety/Security

Biological Resources Construction Impacts

Property Mitigation Measures

Acquisition/Relocations*







^{*}May require specific supporting documentation for the D-list CE

Area of Potential Effects (APE)



Governance / Funding

- Governance
 - Peer Review
 - Recommendations specific to Waco Transit
- Funding
 - Financial Analysis
 - Capital and on-going O&M
 - COVID-19
 - Paths to funding
 - ▶ Small Starts
 - Buses and Bus Facilities
 - Other

Bus Projects Eligible for Funding through the Capital Investment Grant (CIG) Program

	Small Start
Corridor	A substantial investment in a defined corridor
Project Features	 Features that emulate the services provided by rail fixed guideway public transportation systems: defined stations traffic signal priority for public transportation vehicles short headway bidirectional services for a substantial part of weekdays and weekend days
Guideway	No requirements regarding dedicated Guideway
Capital Cost	Less than \$300 million
CIG Funds	Less than \$100 million

FTA Small Starts Process

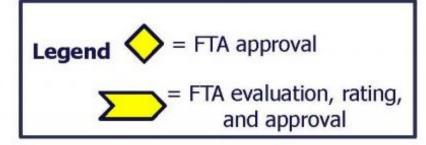
Small Starts Process

Project Development

- Complete environmental review process including developing and reviewing alternatives, selecting locally preferred alternative (LPA), and adopting it into fiscally constrained long range transportation plan
- Gain commitments of all non-Small Starts funding
- Complete sufficient engineering and design

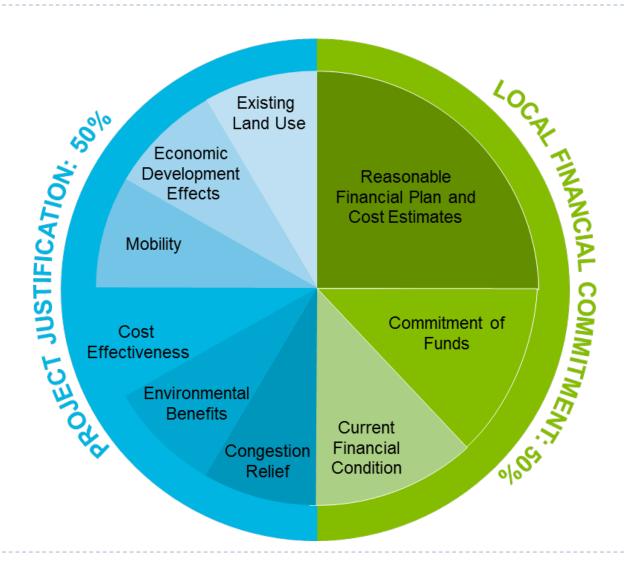
Small Starts Grant Agreement

Construction



FTA Small Starts Evaluation

Projects must receive a **Medium rating** for both Project Justification and Local Financial Commitment



Project Milestone Schedule

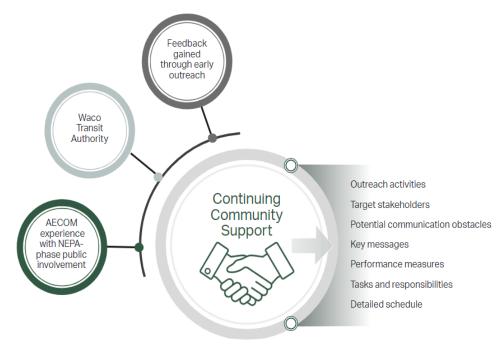
Waco BRT Milestone Schedule	2018				20	19	2020				20	21		20	22	2023			
Selection of LPA	X																		
Request for Entry into Project Development					X														
Pre-award Authority received for Project Development						X													
LPA in Long Range Transportation Plan							X												
Preliminary Engineering and NEPA																	<i>i</i>		
FTA CIG Evaluation and Rating*												X							
FTA Funding Recommendation													X						
Final Design																			
Construction Grant Agreement														X					
Construction and Vehicle Procurement																			
Revenue Service																			X

Public Involvement

Waco BRT

Public Involvement Scope

- Public Involvement Plan
- Outreach and Public Involvement Strategies
 - Traditional
 - Virtual (On-demand and Live)
- Key Messages
 - ▶ Education on BRT as a mode choice for the corridor
 - Project development and decision-making process
 - The role of public involvement
- ▶ Engage Stakeholders from BRT Feasibility Study
- Coordination with City of Waco, FTA and WTS



Public Outreach Schedule

- Schedule of outreach efforts parallels with critical project development milestones
 - Project Kickoff / Reintroduction (Mid-October)
 - Station Siting / Preliminary Engineering / NEPA Process (Early December)
 - Final Preliminary Engineering / NEPA Documentation of Environmental Analysis
 (Mid-February)



October Engagement Activities

Purpose

- Reintroduce project/recap project history
- Explain current project approach
- Preview upcoming input opportunities

Virtual Public Open House

- wacoBRTopenhouse.net
- October 20 November 3
- Received 27 public comments
- ▶ 200+ unique site visits



October Engagement Activities, Cont'd.

Traditional Engagement Approaches

- Poster placement inside buses, bus stations, transit terminal, libraries, community centers and city hall
- Postcard mailings
- PA system messaging at transit terminal
- Press release
- Phone/voicemail comment line

Other Engagement Approaches

- Social media
- ▶ Earned media
- Newspaper legal advertisement



Community members are invited to help shape Waco's first Bus Rapid Transit (BRT) project.

Please join us! Virtual Public Open House

October 20 – November 3 WacoBRTopenhouse.net





December Engagement Activities

Purpose

- Review proposed station siting
- Review preliminary engineering station design
- Review National Environmental Policy Act requirements for environmental review

Traditional Engagement

- Display boards in study area
- Posters
- Phone line with prerecorded messaging

Virtual Engagement

- On-demand microsite with interactive map
- Live virtual event





Waco BRT Project



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Waco-Texas.com/transit/BRT

Other Items / Questions

Waco BRT

Thank You

Waco BRT