

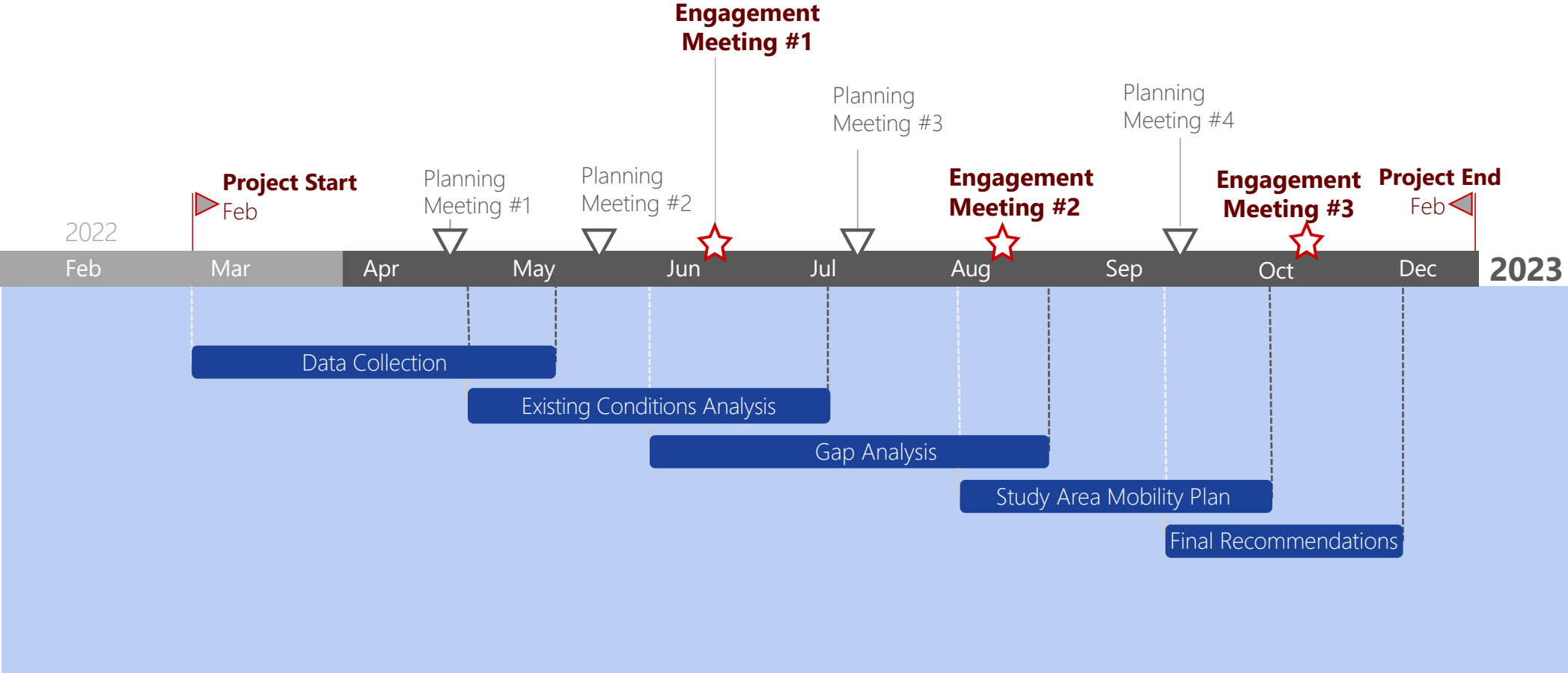
Acres Home Mobility Study

March 30, 2023



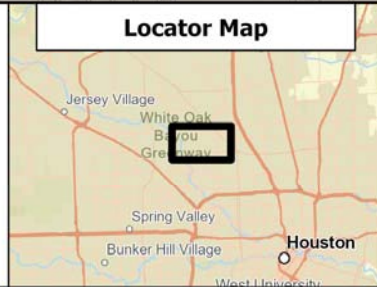
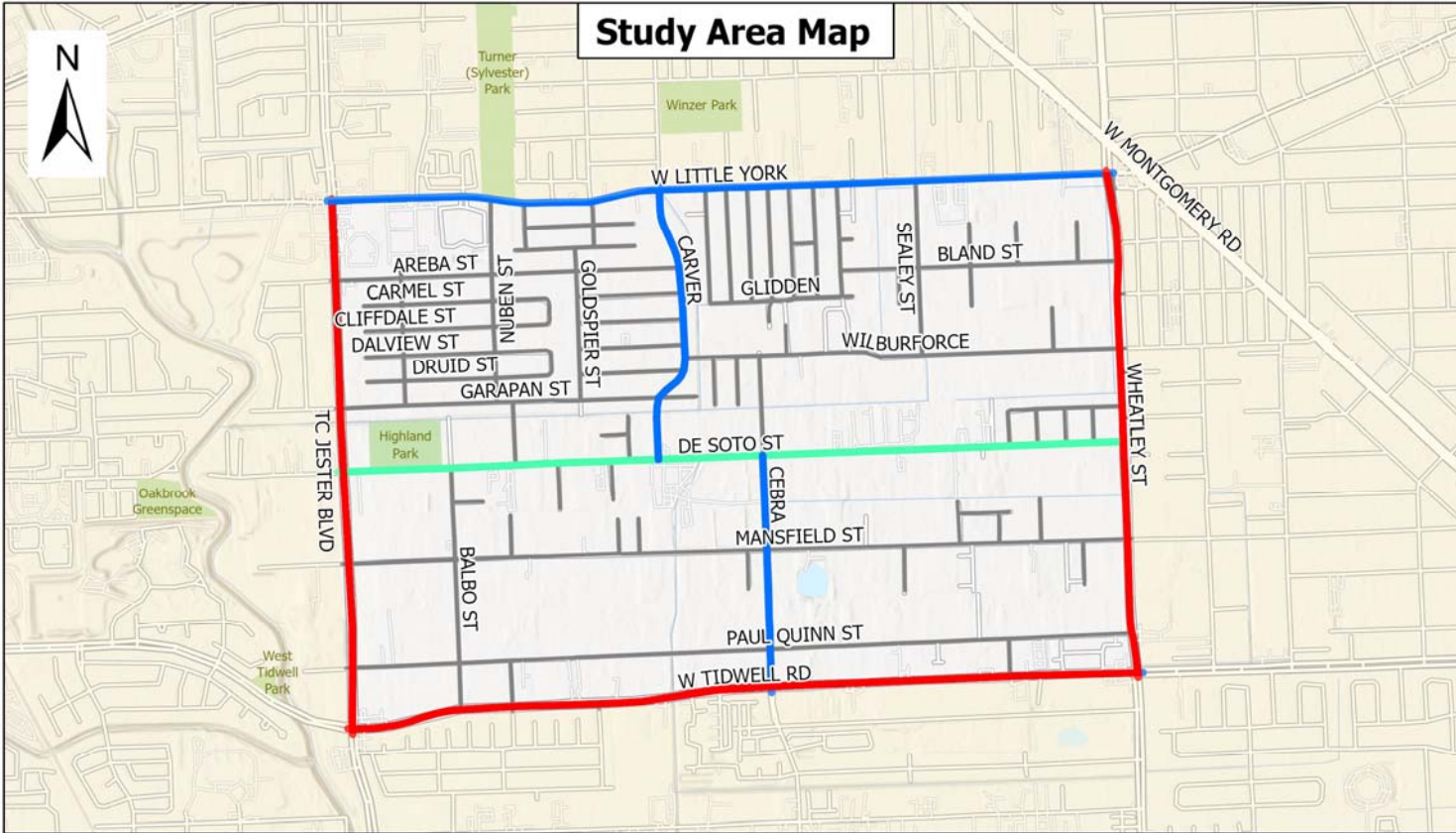
PLANNING &
DEVELOPMENT
DEPARTMENT

Project Timeline



1

Project Overview



Purpose of Study

Identify **transportation related improvements** that address multimodal needs and mobility concerns in the project area



Multimodal transportation means all the ways we travel: cars, buses, walking, bikes, etc.

Acres Home Community Action Plan Goals

- Mobility and Infrastructure Goals:
 - Create Safe Streets
 - Build Great Streets
 - Improve Flood Resiliency
 - Expand Mobility
 - Create a Network of Hike, Bike, and Bridle Trails

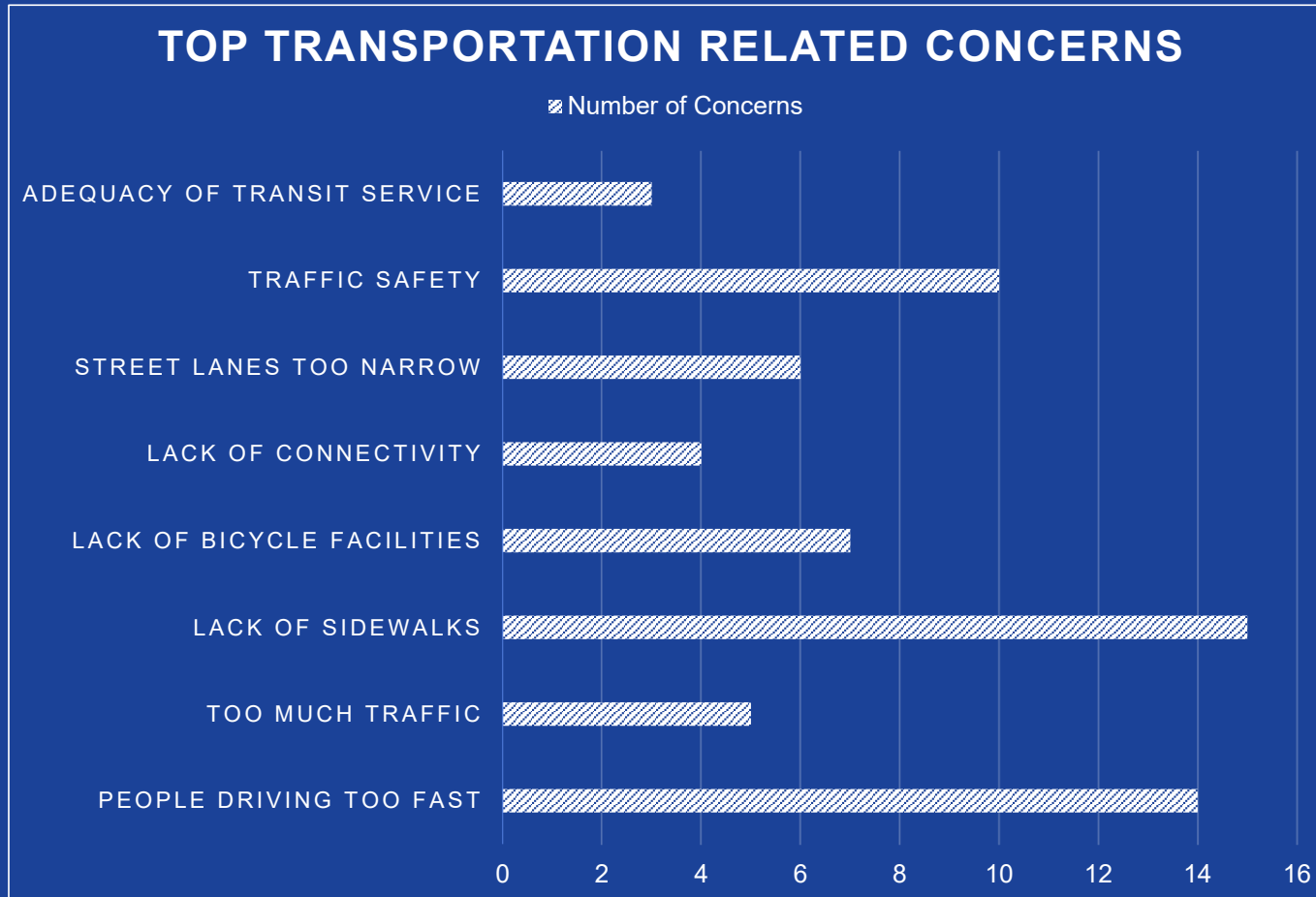
ACRES
HOME
COMPLETE
COMMUNITIES

ACTION PLAN

Three Engagement Meetings



Engagement Meeting Survey Results



Engagement Meeting Survey Results

Where would you spend your money?	Priority Score
Encourage less development/growth	10
Making safety improvements on existing streets (e.g. crosswalks, protected bike lanes, traffic light upgrades, etc.)	9
Construction of sidewalks, bike lanes, and greenways	8
Widening existing roadways	7
Maintaining existing roadways, sidewalks, etc	6
Improvement in street appearance (signage, landscaping, etc.)	5
Building new streets and roadways	4
Public transportation expansion/enhancement (e.g. more METRO stops, more frequent buses)	3
Encourage increased carpooling/vanpooling	2
Other (Please Specify)	1



2

Mobility Improvement Findings & Strategies

Mobility Improvement Findings & Strategies

- Safety improvements
- Sidewalk improvements
- Bike lane improvements
- Roadway pavement improvements
- Street connectivity

Safety Improvements



T C Jester



Pedestrian Crossings

Findings:

- Speeding
- Lack of pedestrian facilities

Strategic Solutions:

- Identify locations with high pedestrian numbers and add safety improvements
- Identify locations with high vehicular crashes and high-speed traffic
- Improve pedestrian safety awareness

Funding Opportunities:

- State/ Federal Grant Opportunities
- CIP (Capital Improvement Project)
- CDSF (Council District Service Fund)
- NTMP (Neighborhood Traffic Management Program)



Carver

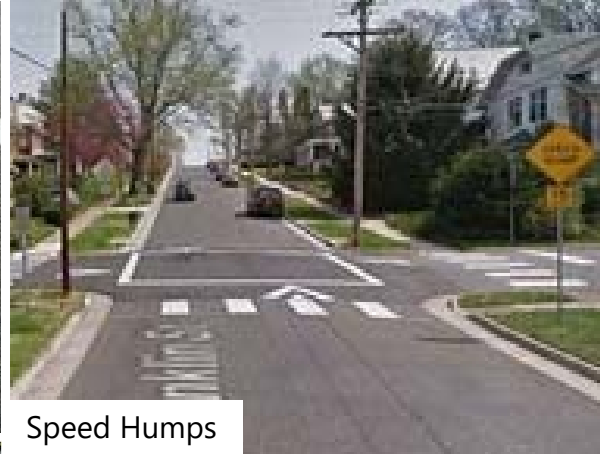


Speed Bumps

Safety Improvements - Elements



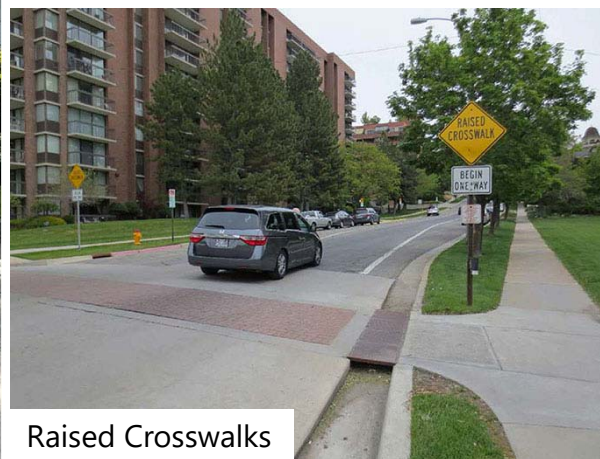
Rumble Strips



Speed Humps



Speed Cushions



Raised Crosswalks

Potential Locations

- Carver
- De Soto
- Mansfield
- Wilburforce

Potential Timeframe

- 6-12 months

Safety Improvements – Speed Monitoring & Awareness



DSDD



HAWK



RRFB



Signs

Speed Monitoring Potential Locations

- Carver
- De Soto
- Mansfield

Speed Awareness Potential Locations

- W Little York
- TC Jester
- W Tidwell
- Wheatley

DSDD – Dynamic Speed Display Device

HAWK – High Intensity Activity Crosswalk

RRFB – Rectangular Rapid Flashing Beacon

Sidewalks



Findings:

- Lack of sidewalks in the area
- Existing sidewalks not up to current standards

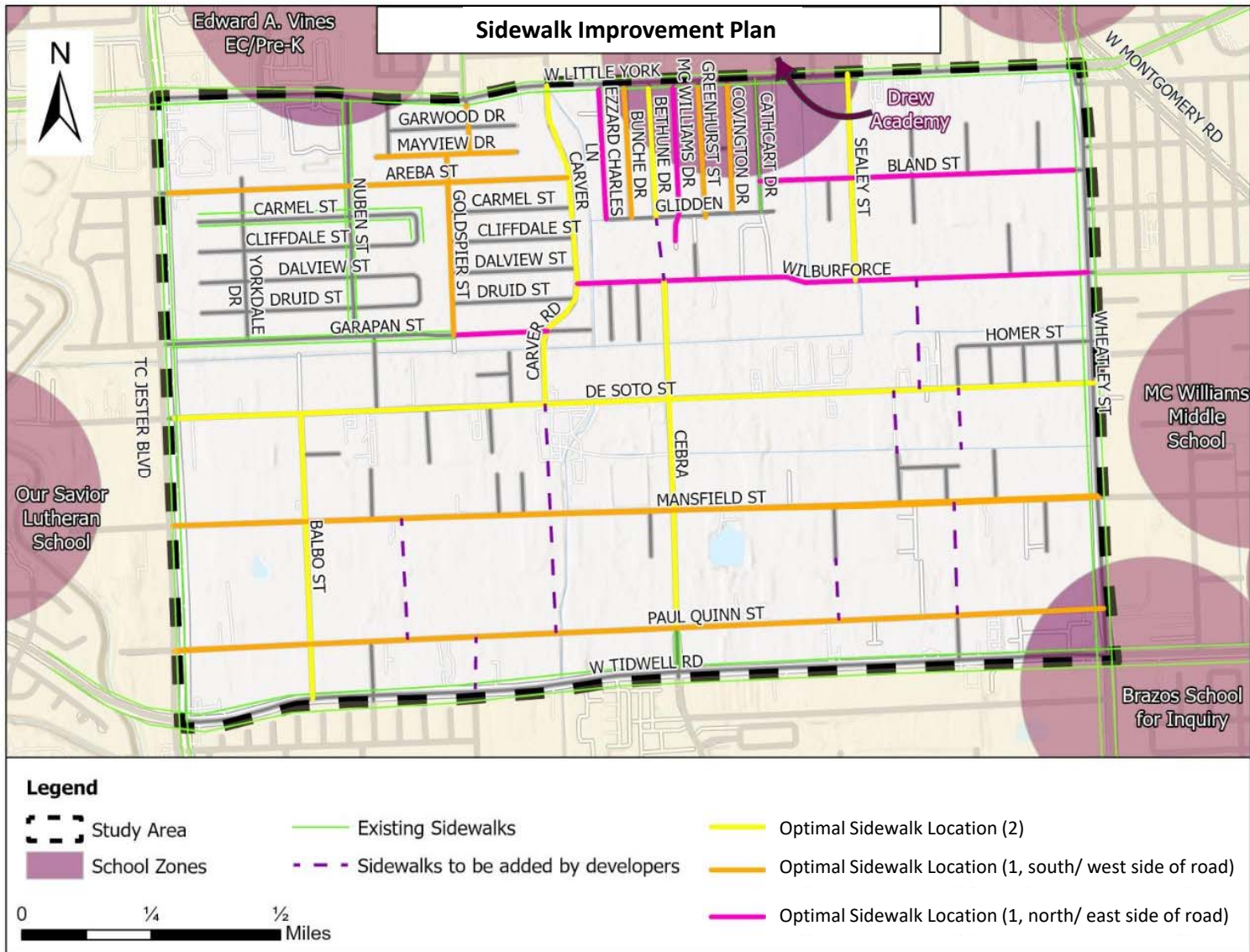
Strategic Solutions:

- Require new developments meet current sidewalk requirements (construct sidewalks or pay Sidewalk in Lieu Fee)
- Identify locations where sidewalks and/or sidewalk upgrades are needed

Funding Opportunities:

- City Sidewalk Programs
 - Sidewalk Fund
- CDSF (Council District Service Fund)
 - State/ Federal Grant Opportunities





Existing
De Soto Street



Proposed
De Soto Street



Bike Lanes



Tidwell



Dedicated On-Street

Finding:
Lack of bicycle facilities in the area

Strategic Solution:
Identify locations to add bike lanes to the City of Houston Bike Plan

Funding Opportunities:

- CIP
- CDSF (Council District Service Fund)
- State/ Federal Grants

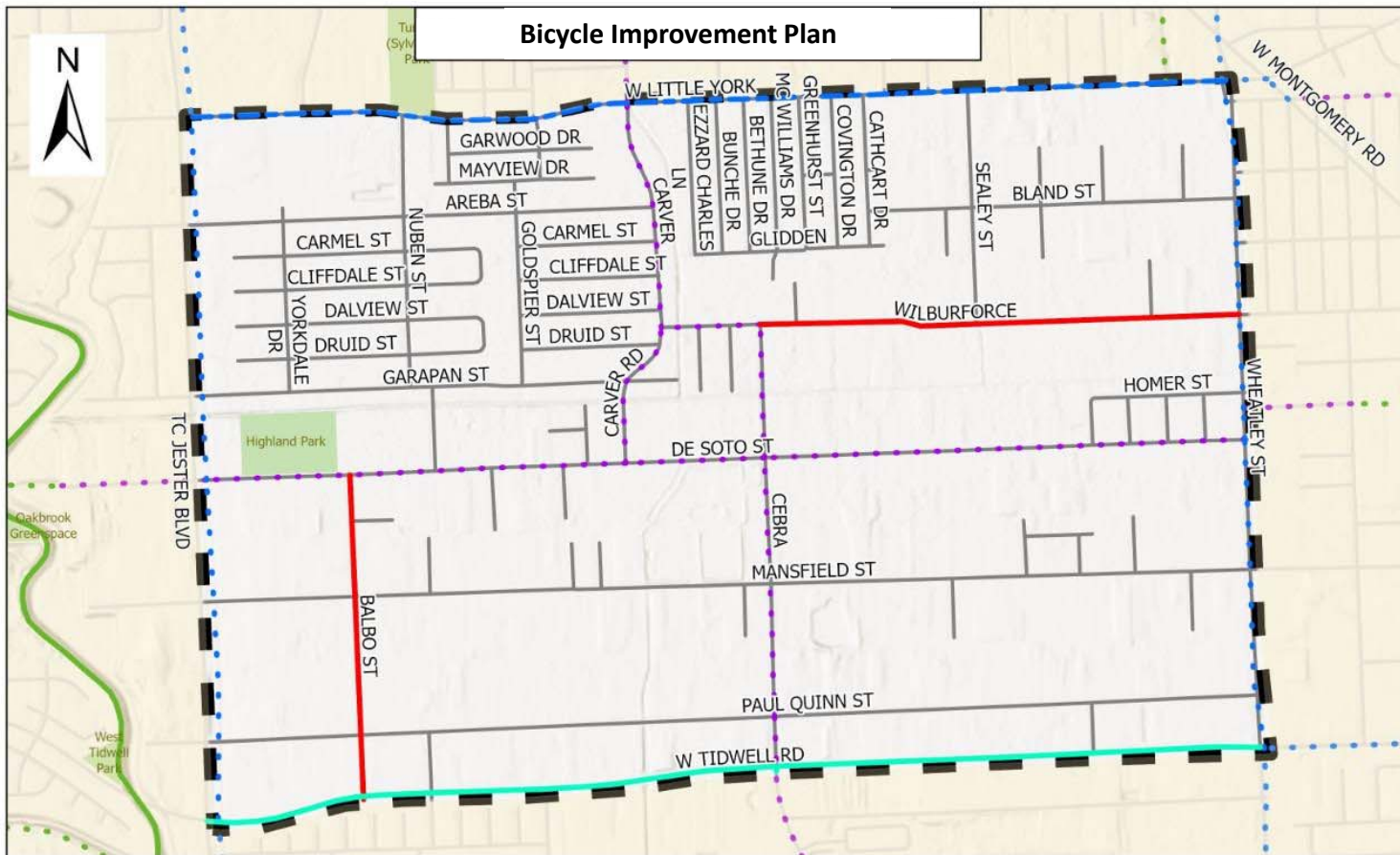


Wilburforce



Shared On-Street

Bicycle Improvement Plan



Legend

Existing Off-Street

Houston Bike Plan

- Planned Off-Street
- Planned Dedicated On-Street
- Planned Shared On-Street

Acres Homes Mobility Study

- Optimal Dedicated On-Street (as per this study)
- Optimal Shared On-Street (as per this study)

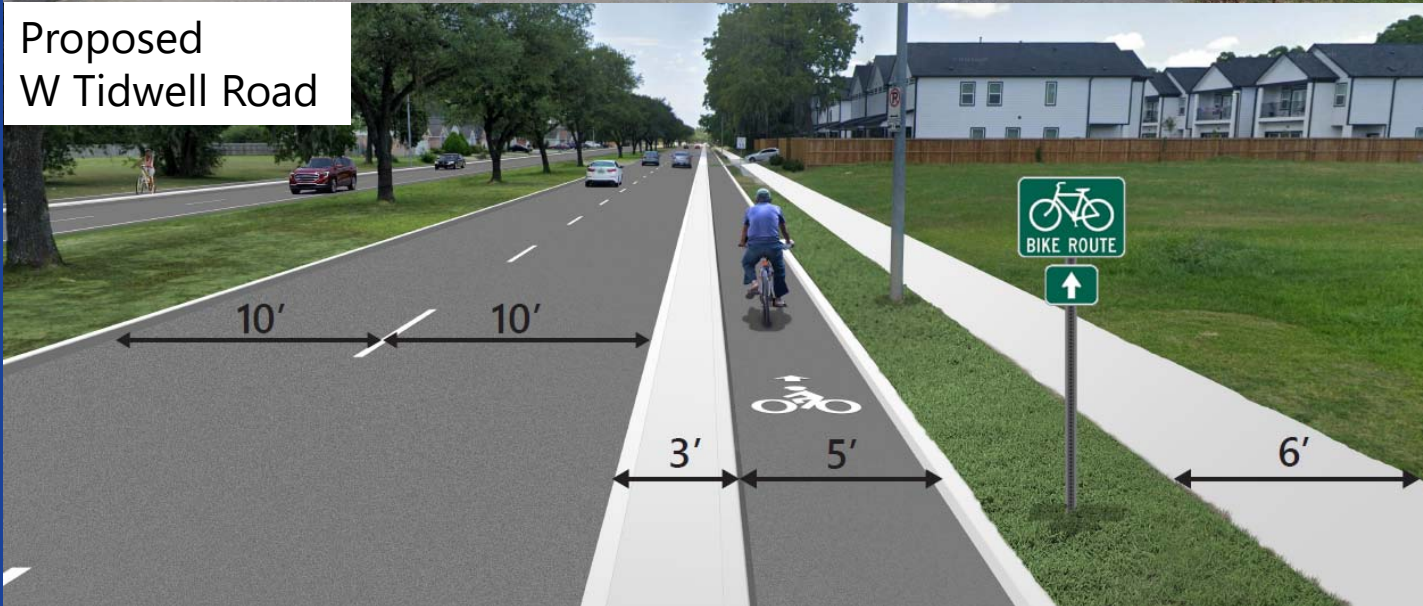


Note: any proposed bicycle facilities will be developed as part of other roadway improvements

Existing
W Tidwell Road



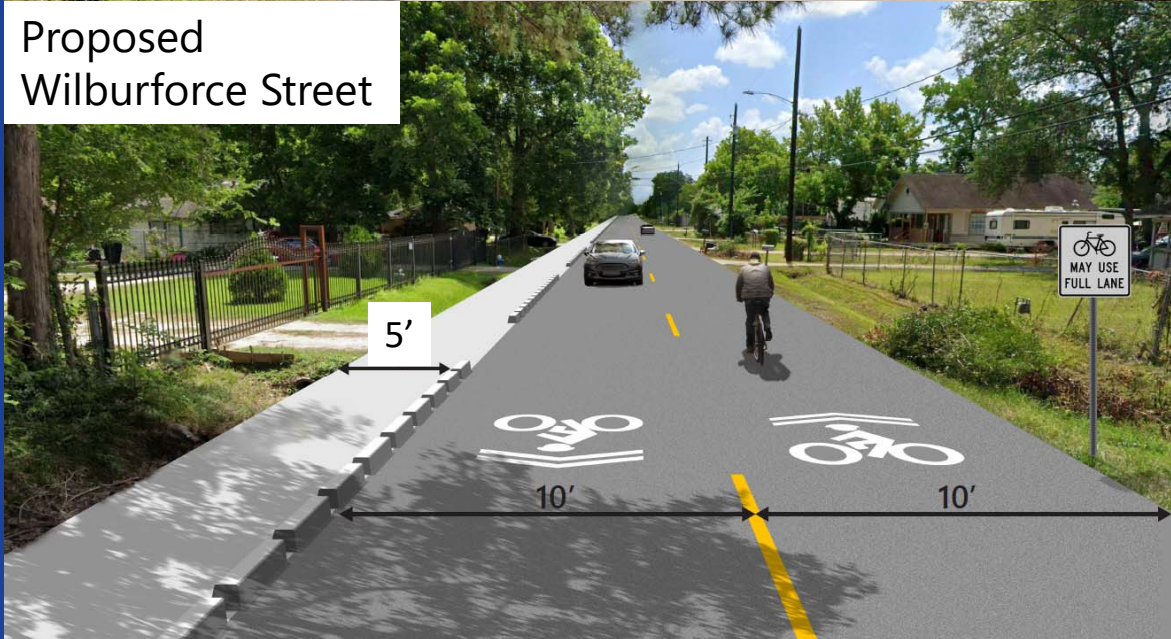
Proposed
W Tidwell Road



Existing
Wilburforce Street



Proposed
Wilburforce Street



Pavement Improvement



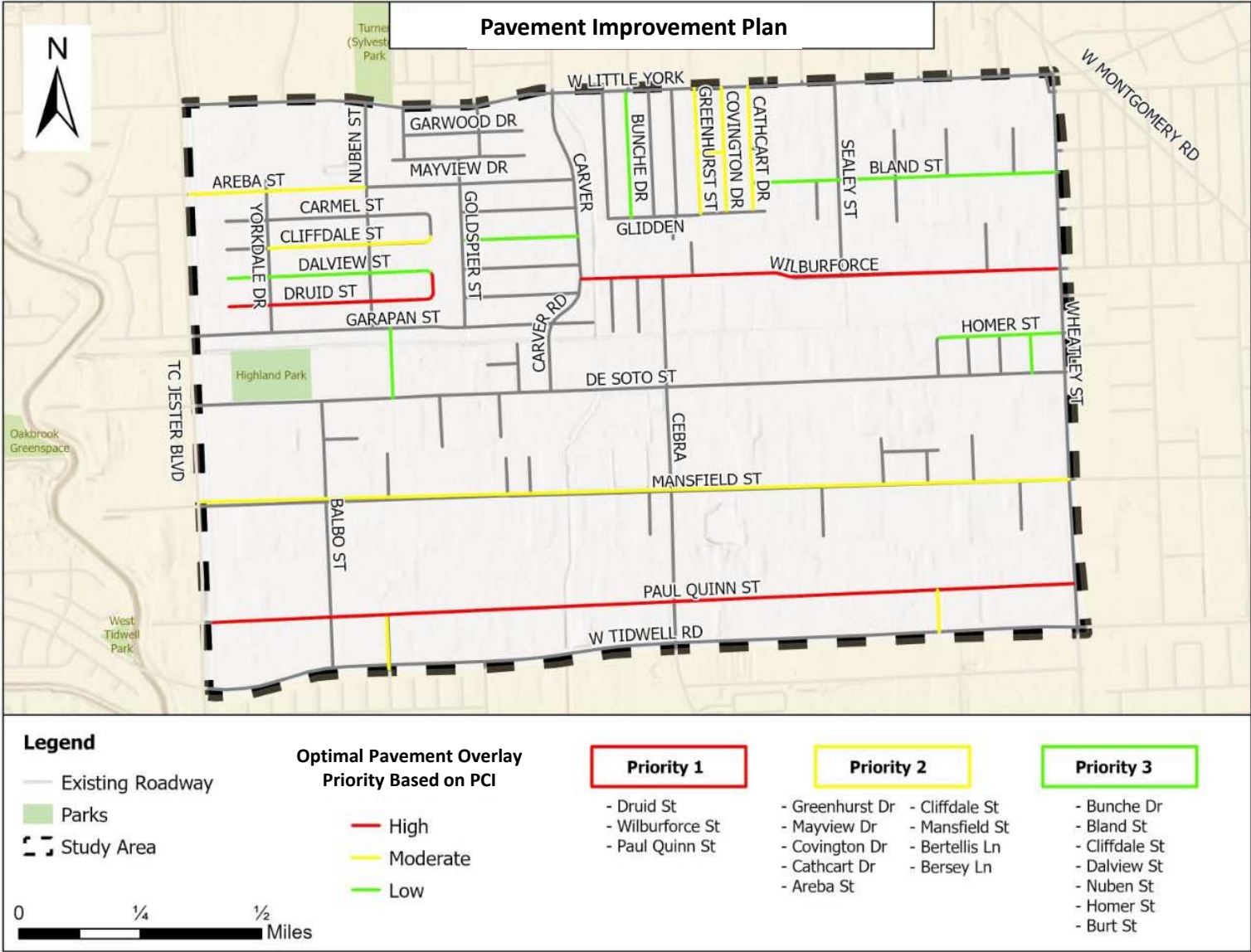
Finding:
Pavement Condition is poor to very poor

Strategic Solution:
Identify locations for City's pavement overlay program

Funding Opportunities:

- CIP
- CDSF (Council District Service Fund)
- Street Rehabilitation Program





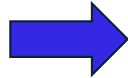


Connectivity



Findings:

- Limited North/ South Connectivity
- Narrow roadways



Strategic Solution:

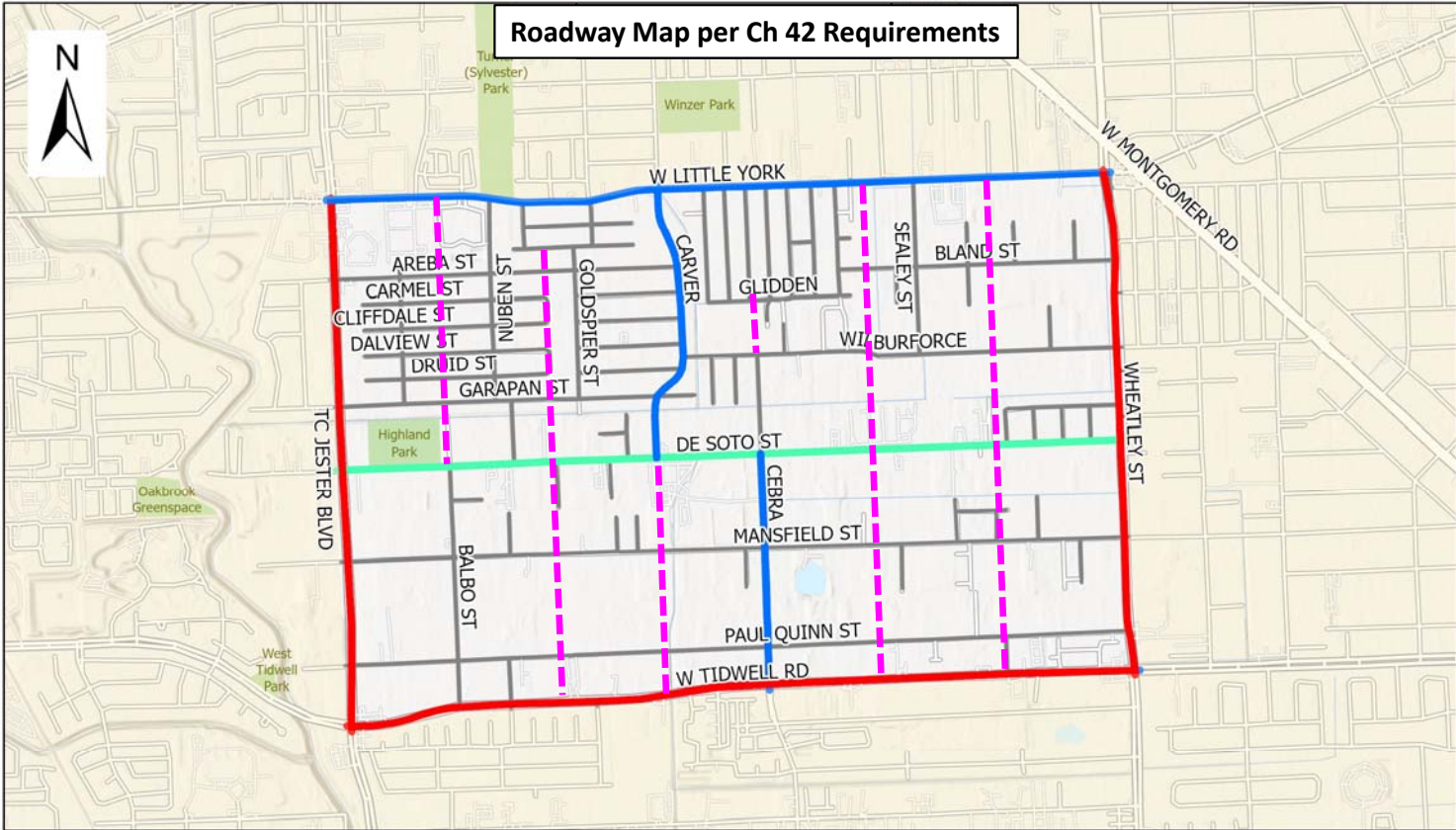
Create more north/south roads to improve mobility



Funding Opportunities:

- Developers
- CDSF (Council District Service Fund)
- Federal Grants

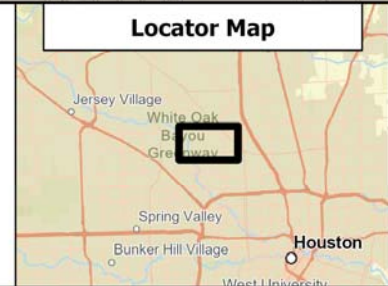




Legend

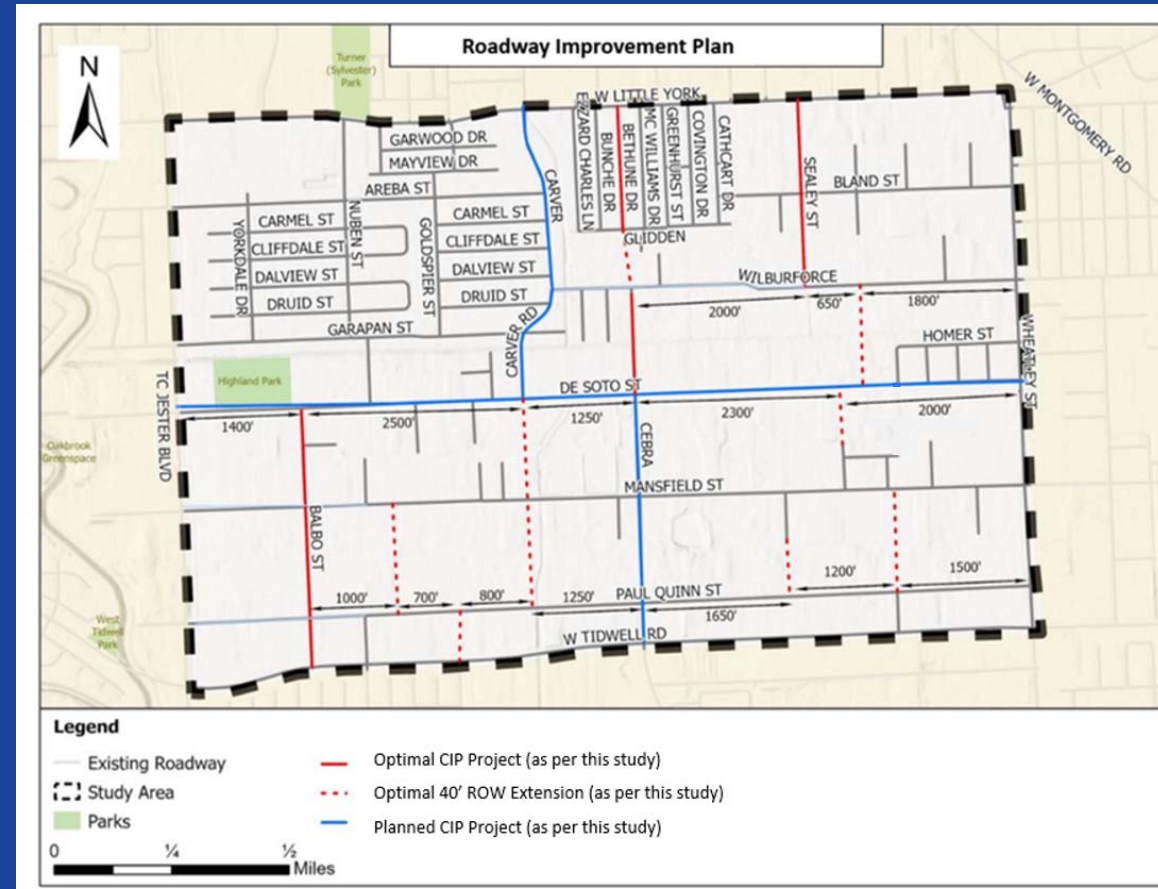
	Study Area		All Roads		Required Roadway by Ch 42
	Parks		Major Thoroughfare		
			Major Collector Roadway		
			Minor Collector Roadway		

0 1/4 1/2
 Miles

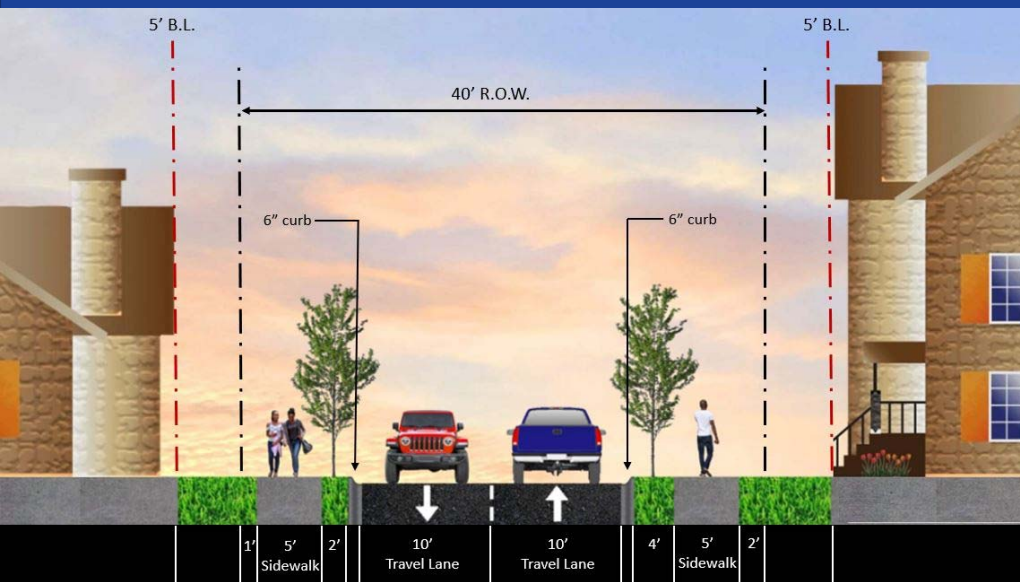


Consideration factors for the optimal roadway extension locations:

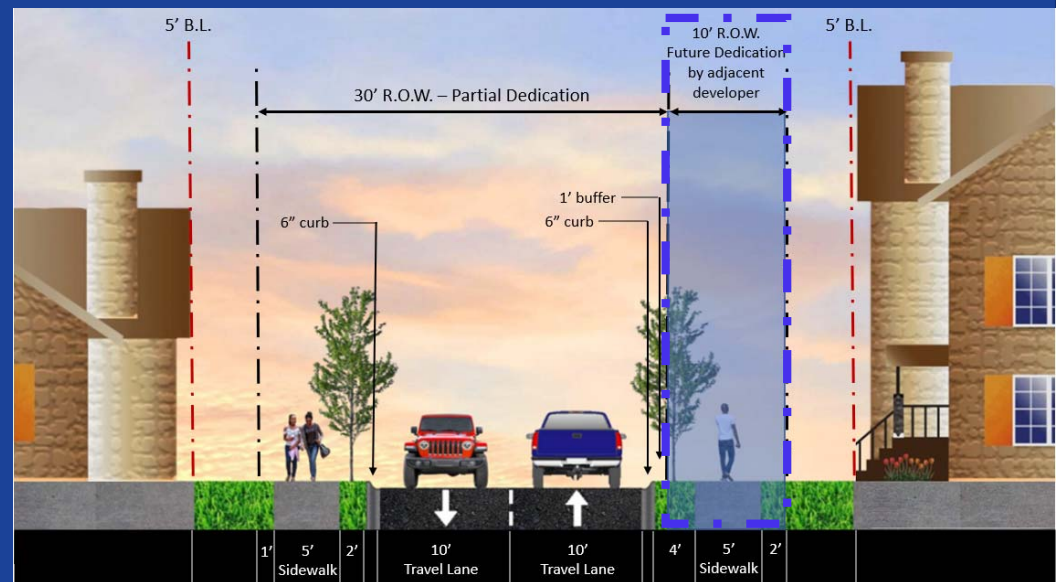
- Lot frontage & lot size
- Property ownership
- Intersection spacing
- Proportionality



40' Roadway Design



Entire Roadway Dedication

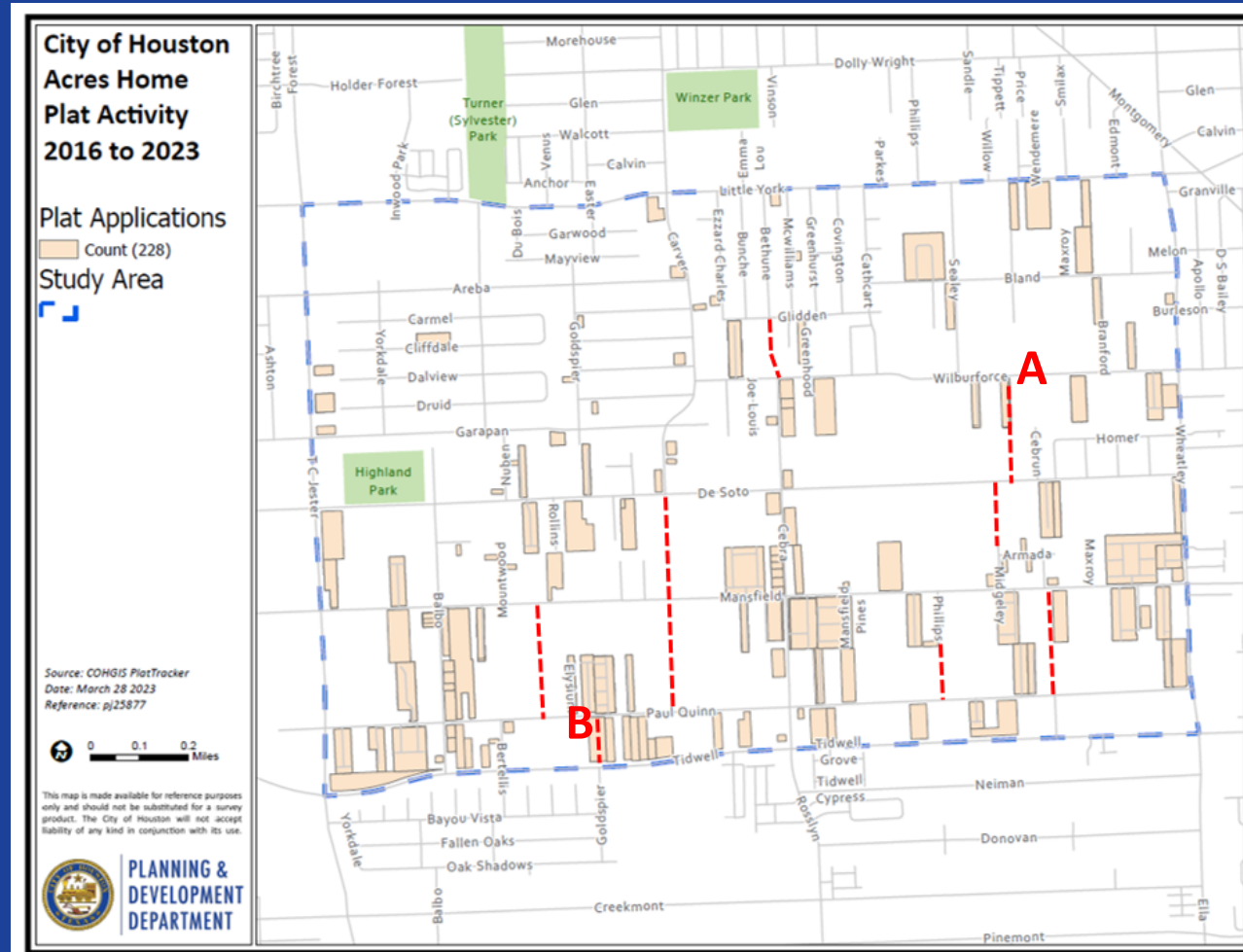


Partial Roadway Dedication
30' / 10' Split

Optimal Roadway Plan

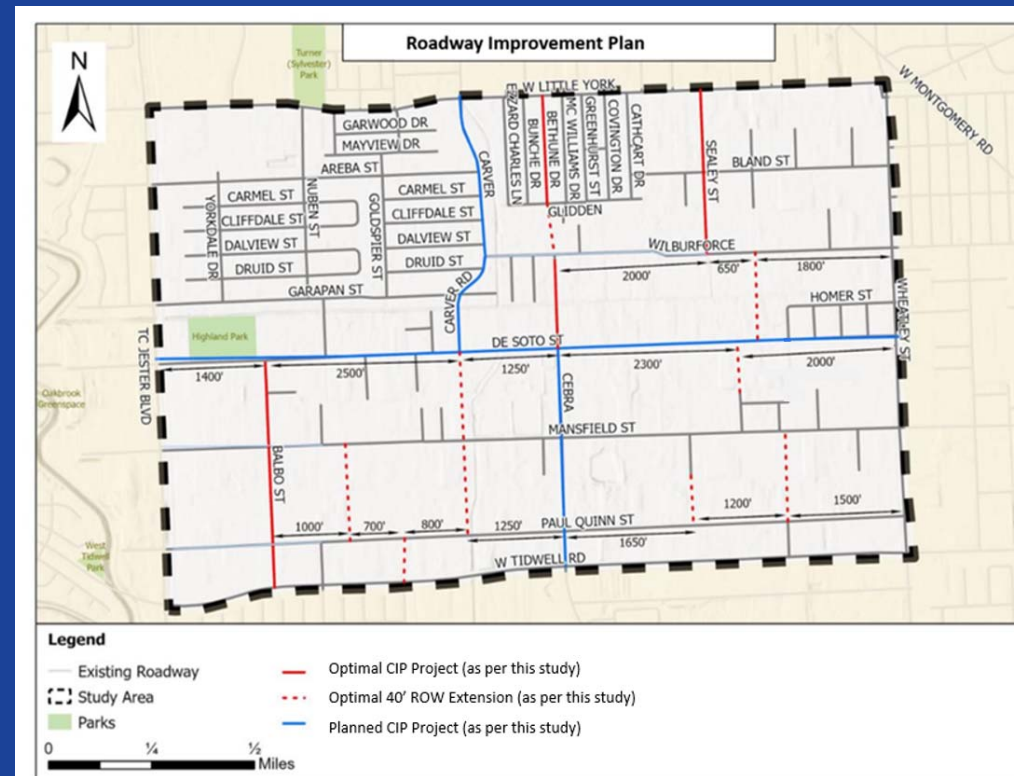
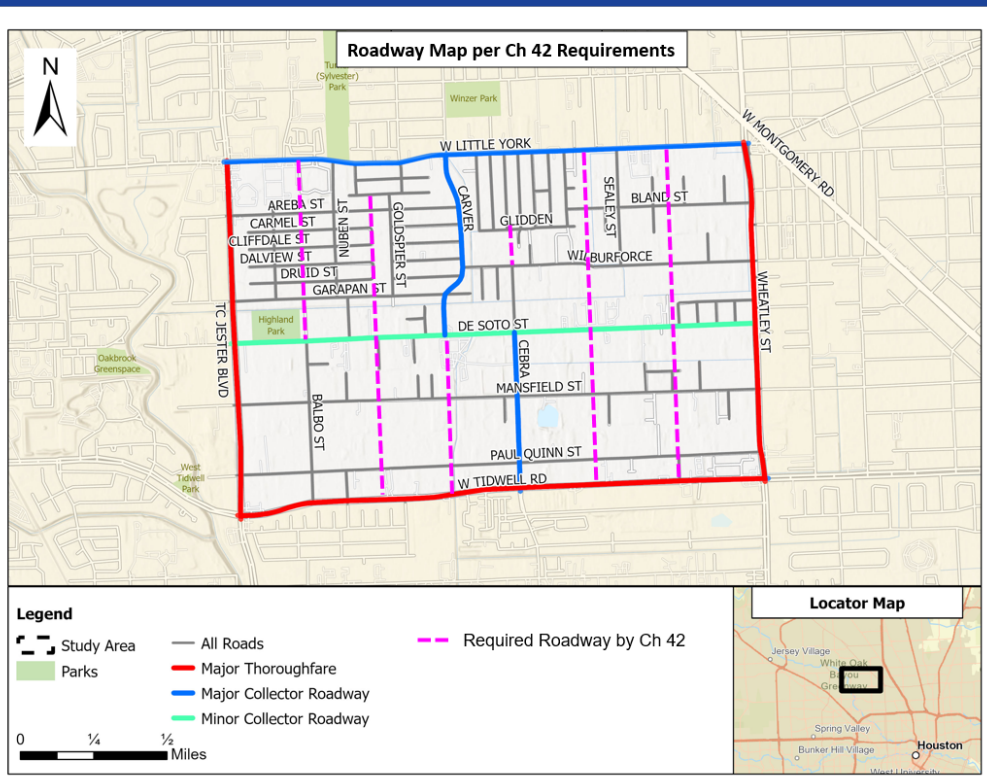
Overlaid with Platting Activities

- Project A: Dimora Heights
Has dedicated 30' public R.O.W.
- Project B: Lexen Court
Variance request to not provide R.O.W. dedication was denied



Roadway Map based on Chapter 42 Requirements

Optimal Roadway Plan Recommended by the Mobility Study



3

Next Steps

Next Steps

- **Explore funding and partnership opportunities for implementation**
- **Utilize the Mobility Study findings to guide mobility improvements**
- **Coordinate with stakeholders to achieve the suggested improvements**