



Liberty County Mobility Study



Thomas Gray, AICP
Michael Feeney, P.E.
Public Meeting # 2 – May 12, 2022

Regional Collaboration • Transportation Planning • Multimodal Mobility



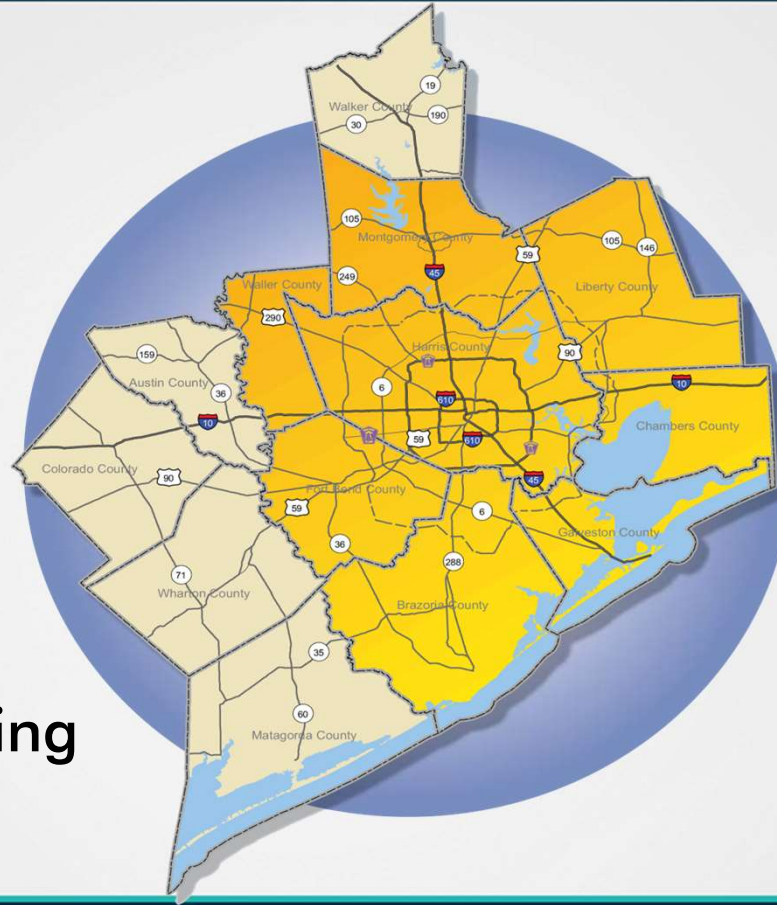
What is H-GAC?



- Regional forum for cooperative action by local governments in 13-county region.
- Created by Texas, Functions Defined by State and Local Governments:
 - **Transportation Planning**
 - Area Agency on Aging (12 Counties)
 - Gulf Coast 911 District (8 counties)
 - Job Training (13 Counties)
 - HGACBuy; Energy Purchasing; SBA; and more

Metropolitan Planning Organization

- Designated in 1974
- 8 counties, 120 local governments, ports
- 6.7 million residents
- Cooperative, Continuous, and Comprehensive Transportation Planning



MPO Counties

- Brazoria
- Fort Bend
- Waller
- Montgomery
- Liberty
- Chambers
- Galveston
- Harris

Agenda



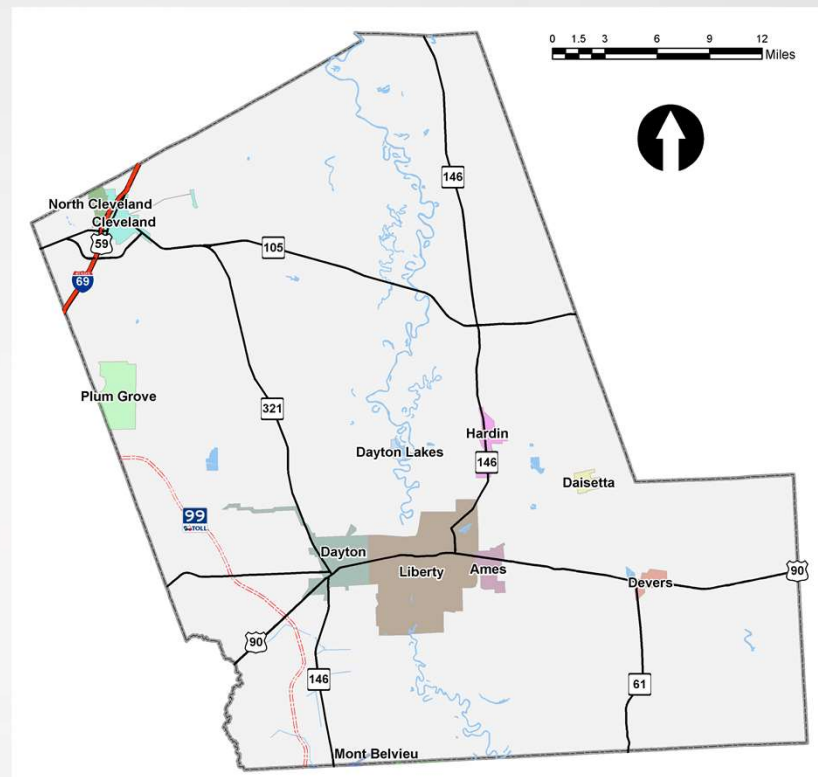
Agenda:

1. Introductions – **5 minutes**
2. Project Overview / Vision / Goals – **5 minutes**
3. Draft Recommendations – **15 minutes**
 - Online Tool
 - Comments Due – May 25, 2022
4. Next Steps – **10 minutes**
5. Comments / Suggestions – Remaining Time
6. Mark Up Maps / Online Tool – Remaining Time

Purpose and Study Area



- Analyze the existing transportation network
- Examine existing and future land use and growth scenarios
- Recommend ways to improve transportation mobility near-term and in the future



Vision



The vision of the Liberty County Mobility Study is to address County needs through multimodal transportation, development, and economic policy, while meeting H-GAC's goals of mobility, safety, and enabling economic opportunity.



Goals

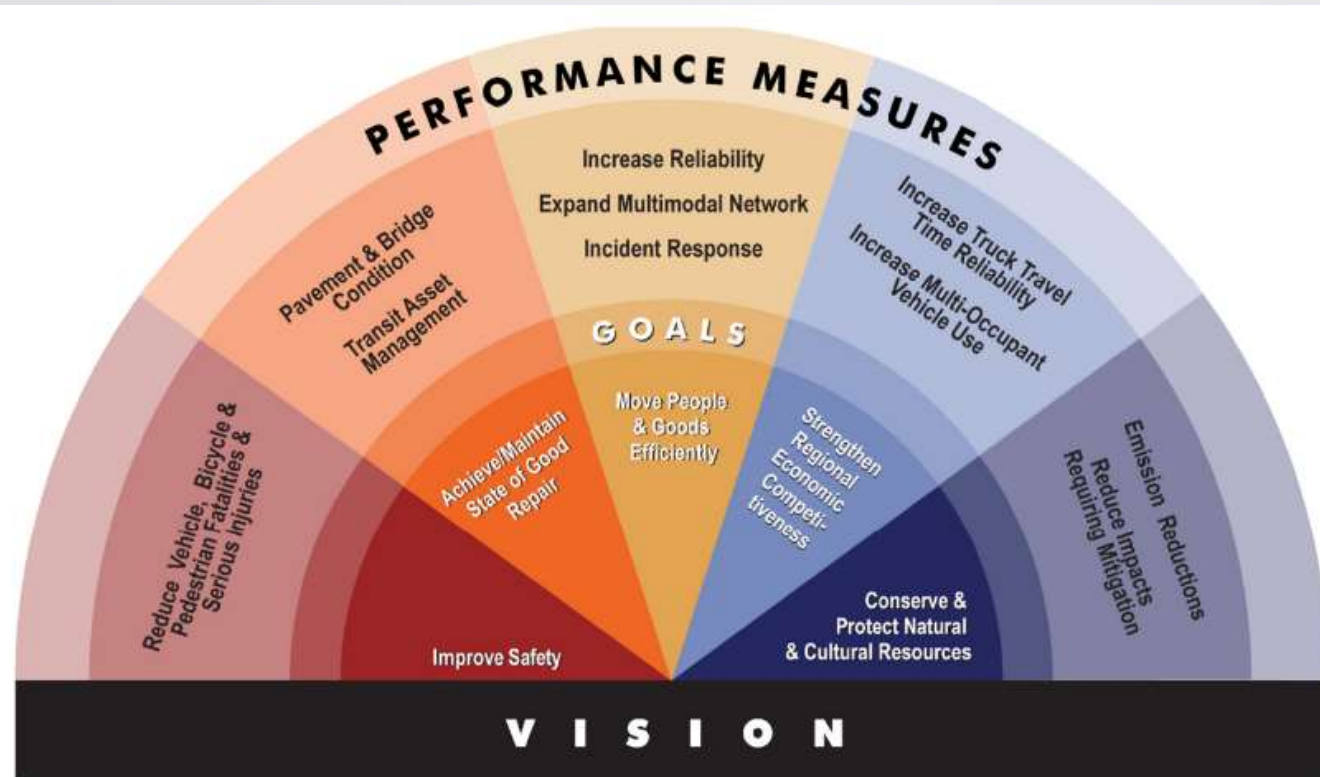


Figure 2-1: 2045 RTP Vision, Goals, and Performance Measures

Schedule

LIBERTY COUNTY MOBILITY STUDY SCHEDULE

| TASK | 2020 | | 2021 | | | | 2022 | |
|------------------------------------|------|--------|--------|--------|------|--------|--------|--------|
| | FALL | WINTER | SPRING | SUMMER | FALL | WINTER | SPRING | SUMMER |
| Identification of Issues and Needs | █ | █ | █ | █ | █ | █ | █ | █ |
| Data Assembly and Evaluation | | █ | █ | | | | | |
| Analysis | | █ | █ | █ | █ | █ | █ | |
| Implementation and Funding Plan | | | | █ | █ | █ | | |
| Final Report | | | | | █ | █ | █ | █ |
| Public Outreach | █ | █ | █ | █ | █ | █ | █ | █ |

- █ DURATION OF TASK
- █ ONLINE ENGAGEMENT ACTIVITY
- STEERING COMMITTEE MEETING
- STAKEHOLDER MEETING
- PUBLIC MEETING

↑
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Steering Committee



| | |
|--------------------------|---|
| Liberty County | Judge Jay Knight David Douglas |
| City of Cleveland | Stacy Williams Angela Smith |
| City of Dayton | Kimberly Judge Steve Floyd Ann Miller |
| City of Liberty | Tom Warner Chris Jarmon |
| TxDOT | Noel Salac Jeffrey English Lisa Collins |
| H-GAC | Thomas Gray Allie Isbell |

Stakeholders



Business



Transportation



Government



Healthcare



Real Estate/
Developers



Schools



Emergency



Law Enforcement

Stakeholders



| | |
|---|-----------------------------|
| Union Pacific Railroad & BNSF Railroad | Transportation |
| Brazos Transit District | Transportation |
| Liberty County Sheriff's Department | Law Enforcement |
| Local Police (Cleveland, Dayton, Liberty) | Law Enforcement |
| Texas Department of Parks and Wildlife | Law Enforcement/Environment |
| Cleveland Fire | Emergency |
| ISD (Cleveland, Tarkington, Dayton, Liberty, Hardin) | School Districts |
| Mayor of Plum Grove | Government |
| Port of Houston | Government |
| Chambers of Commerce (Greater Cleveland & Liberty-Dayton Area) | Business |
| State Farm Insurance & Liberty Pest Control | Local Business |
| Liberty-Dayton Regional Medical Center | Healthcare |
| Colony Ridge & Pelco Builders | Developers |
| Poole Realty Group | Real Estate |
| Cornerstone Church – Cleveland and Liberty | Faith |

Public Input

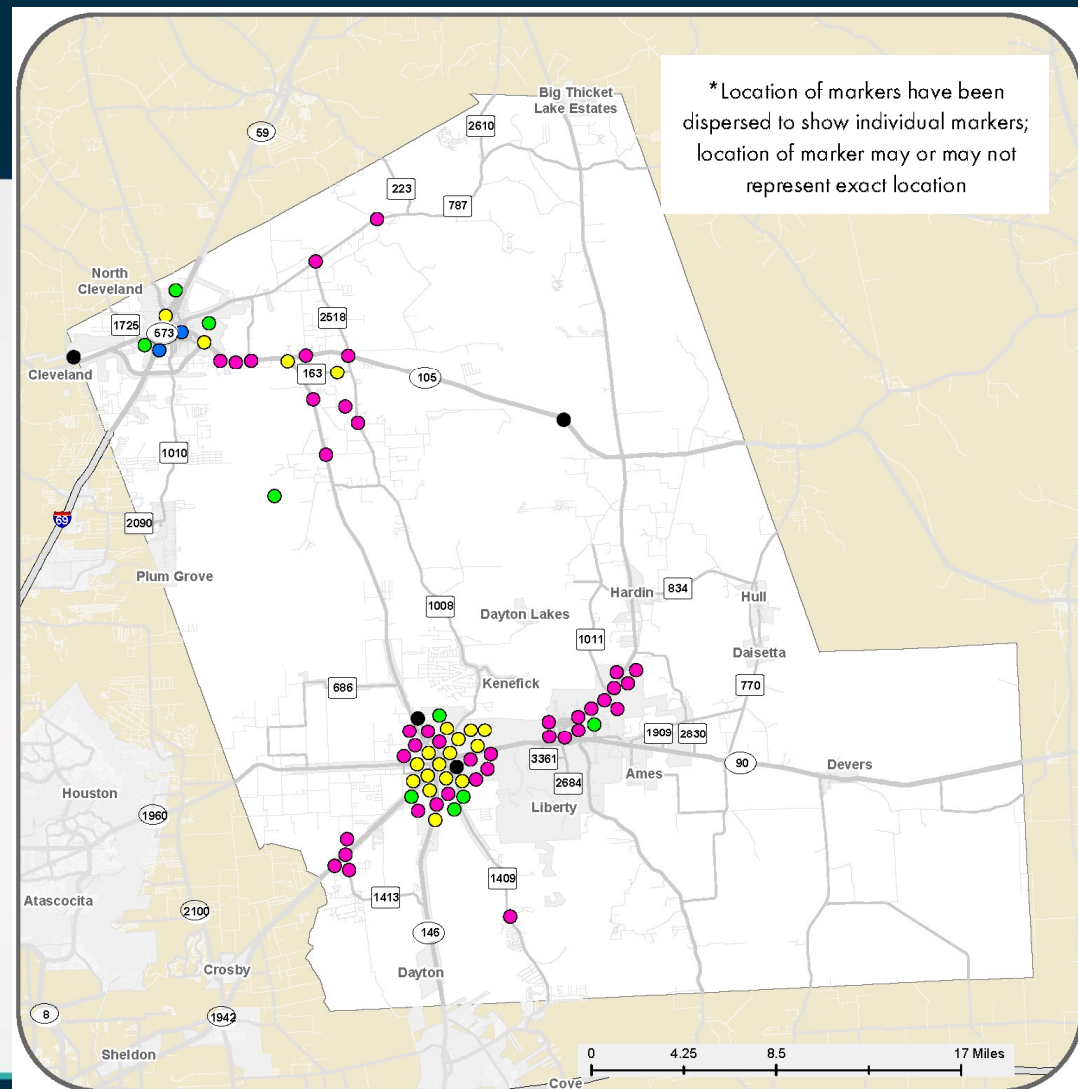
Online involvement from
March 18 – June 1

- Total visits: 587

Comment Map

- 74 pins placed

- Safety - 54%
- Congestion and Delay - 26%
- Access and Connectivity - 12%
- Walking, Biking and Transit - 3%
- Anything Else - 5%



Survey

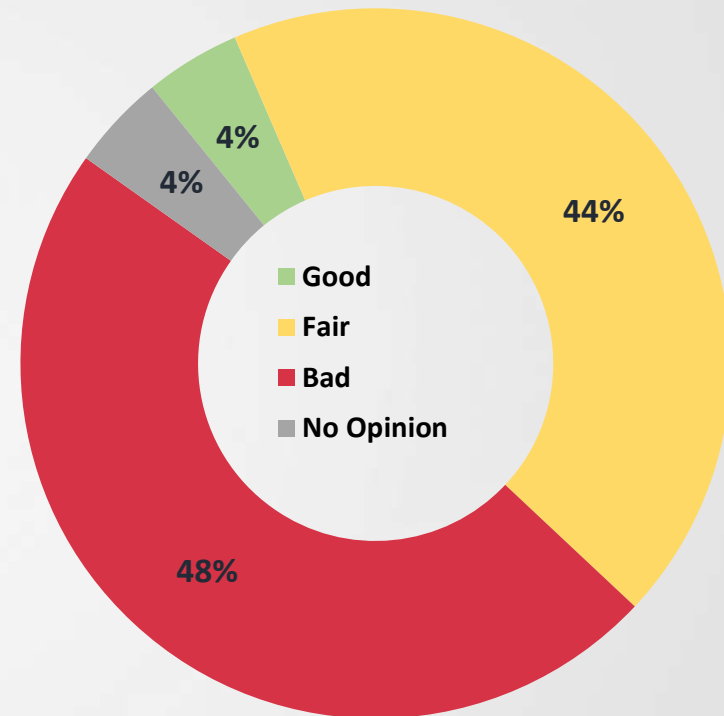
74% lived / worked in Liberty County for 11+ years

MORE IMPORTANT

- Reduce congestion
- Improve safety
- Additional connections / alternate routes
- Reduce delay at railroad crossings
- Mitigate heavy truck traffic
- Make intersection improvements
- Improve / expand walking and biking options
- Improve / expand public transportation

LESS IMPORTANT

ROAD CONDITIONS



Municipal Input

Three Meetings:

- Cleveland
 - Dayton
 - Liberty
-
- Engineering, Planning & City Management Staff
 - County Judge & Engineer



City Meetings (Cleveland, Dayton, Liberty)

■ Key Points

• Cleveland

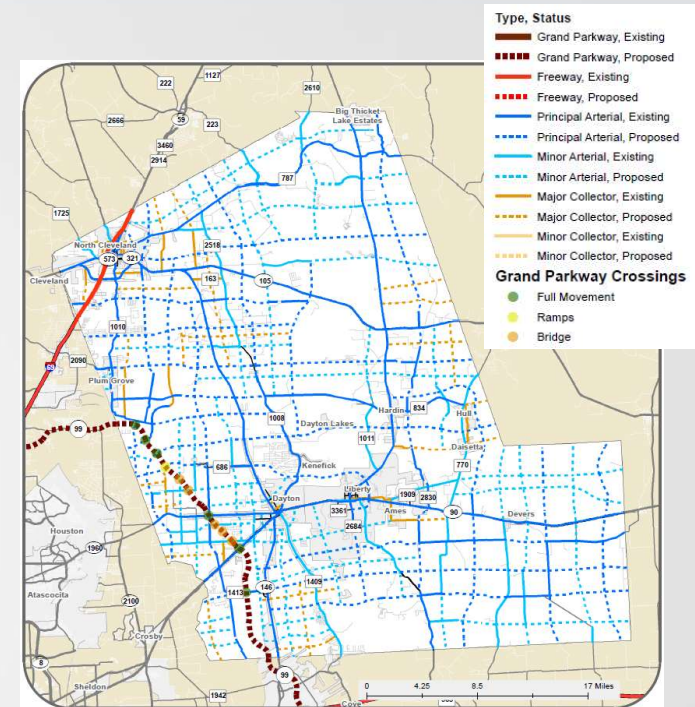
- Thoroughfare to pass through Plum Grove
- Connection from FM 2025 to Washington Avenue
- Railroad Crossing at Hanson is being closed

• Dayton

- Grade-separation along Klemp Road to SH 321
- Revise alignments to serve Klemp Road extension
- New river crossing / more railroad crossings

• Liberty

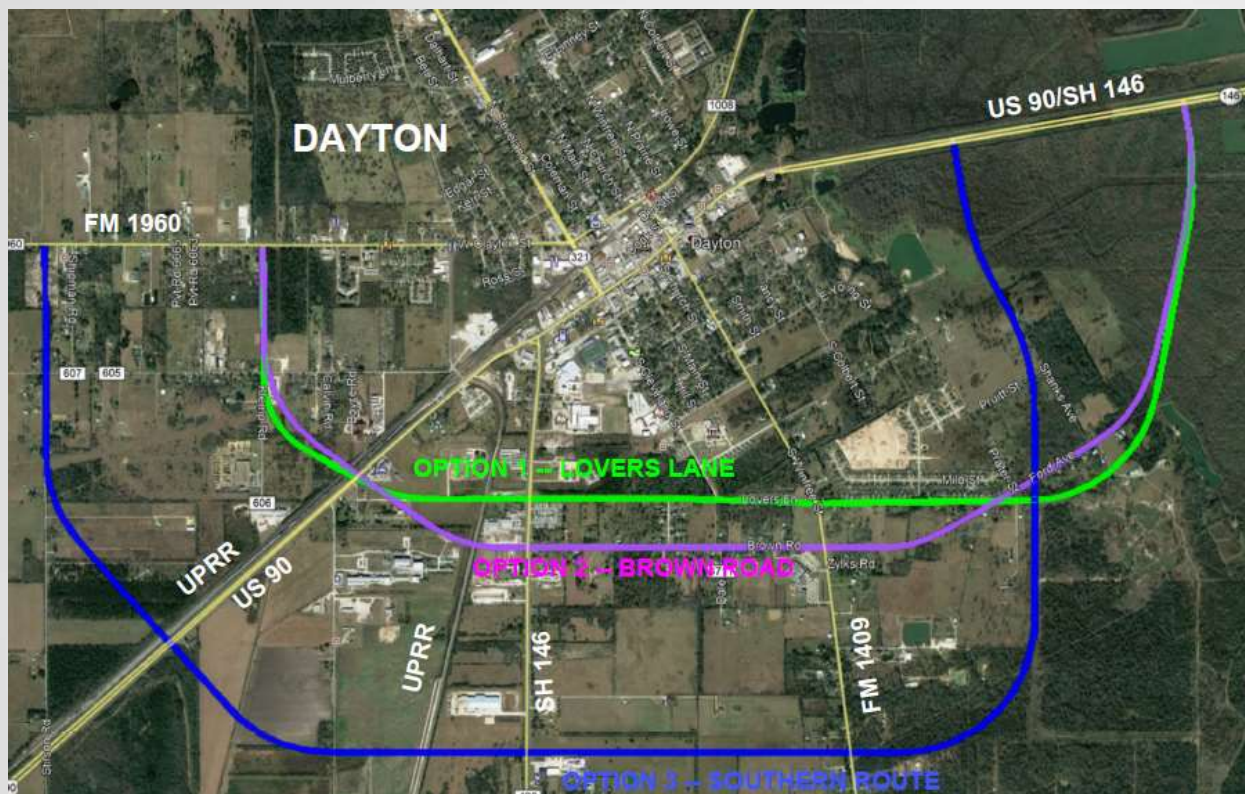
- FM 1011 to connect south
- East-west connection northeast of the City
- East-west connection - Lakeland Drive to SH 146 Bypass



A blue-tinted photograph of a multi-lane highway with cars driving away, overlaid with the text "HIGH LEVEL HIGHLIGHTS". The image shows a perspective view of a road with several vehicles in the distance. The text is centered horizontally across the middle of the image.

HIGH LEVEL HIGHLIGHTS

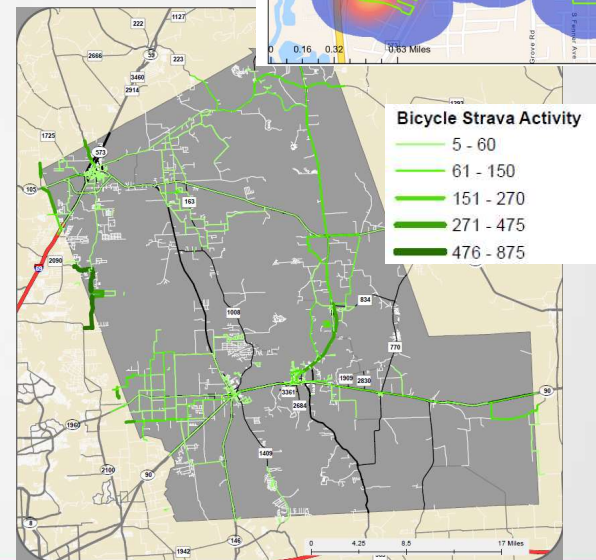
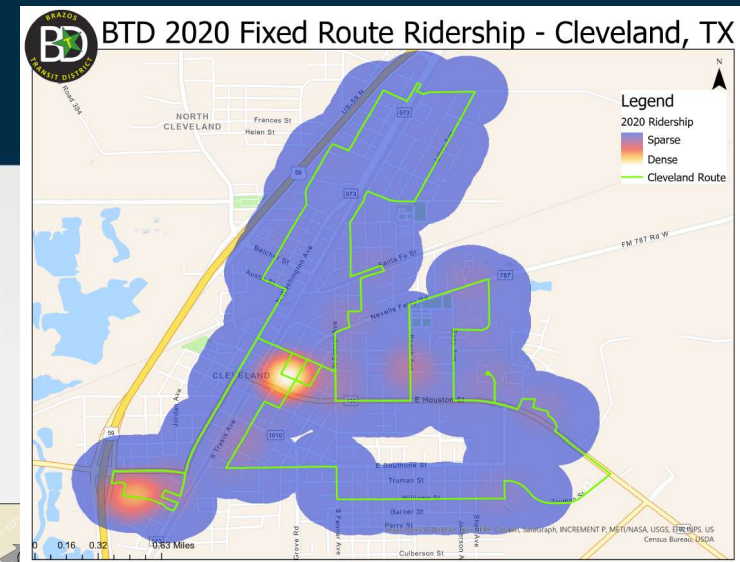
Dayton Bypass Alternatives



| | 1 | 2 | 3 |
|------------|---------|---------|----------|
| Length | 4.62 mi | 4.58 mi | 6.18 mi |
| Bridge | .34 mi | .24 mi | .44 mi |
| Cost | \$34 M | \$32 M | \$41.6 M |
| Residences | 4 | 7 | 4 |
| Commercial | 6 | 10 | 0 |

Active Transportation

- Sidewalks Near:
 - Schools
 - Shopping Areas
 - Multi-Family Residential
- Park-and-Ride Lot Near US 90
- Future Dayton Transit Study

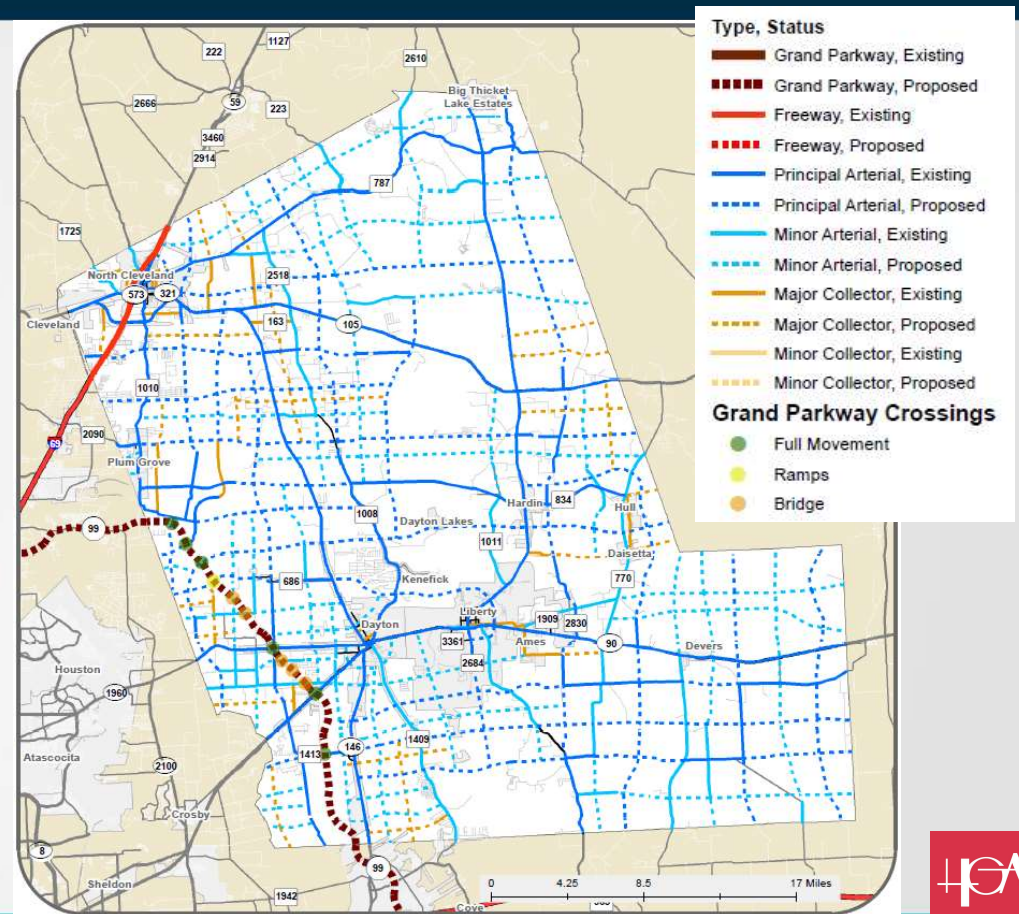


Thoroughfare Suggestoins

- County Should Conduct Official Thoroughfare Plan

- Input From:

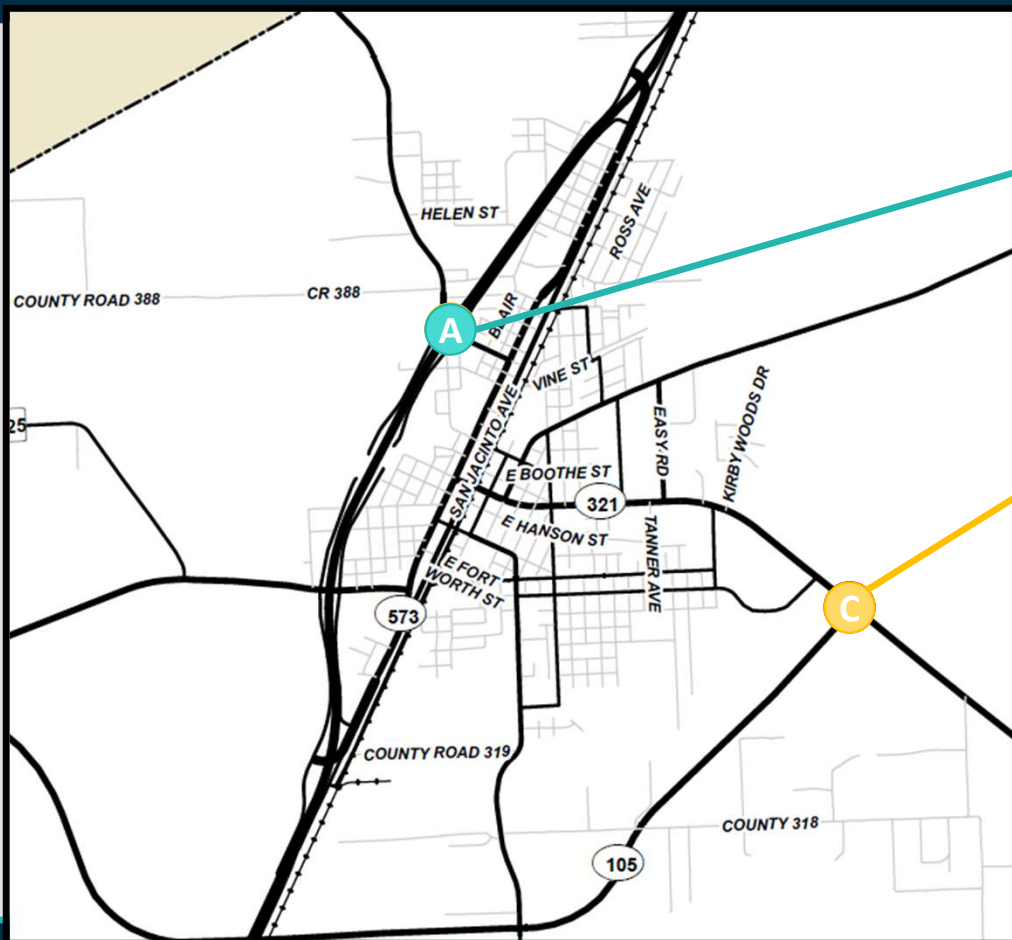
- County
- Cleveland
- Dayton
- Liberty



A blue-tinted photograph of a road intersection. The road curves from the bottom left towards the center. Several cars are visible on the road. The background is filled with dense trees and a hazy sky. The text 'INTERSECTION PERFORMANCE SUMMARY' is overlaid in white, bold, sans-serif font in the center of the image.

INTERSECTION PERFORMANCE SUMMARY

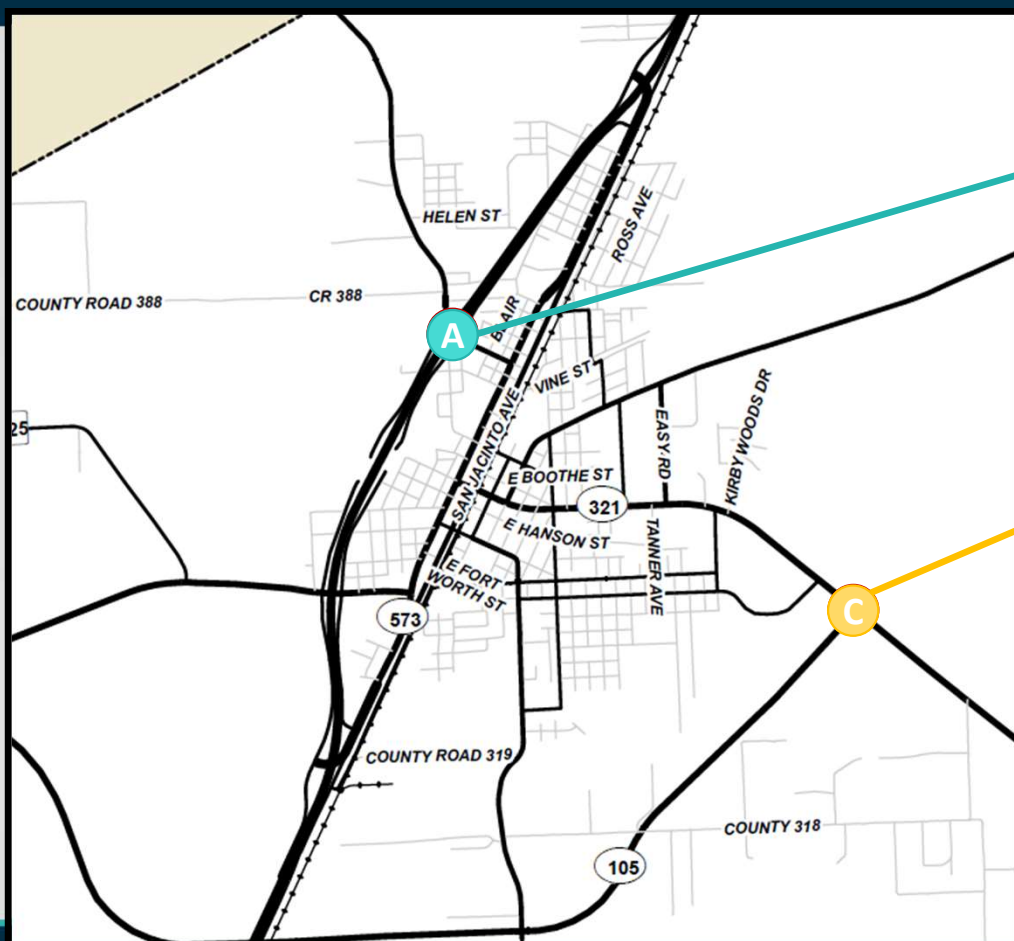
Intersection Performance (2021)



+ Signalization

+ Install northbound left-turn lane

Intersection Performance (2045)



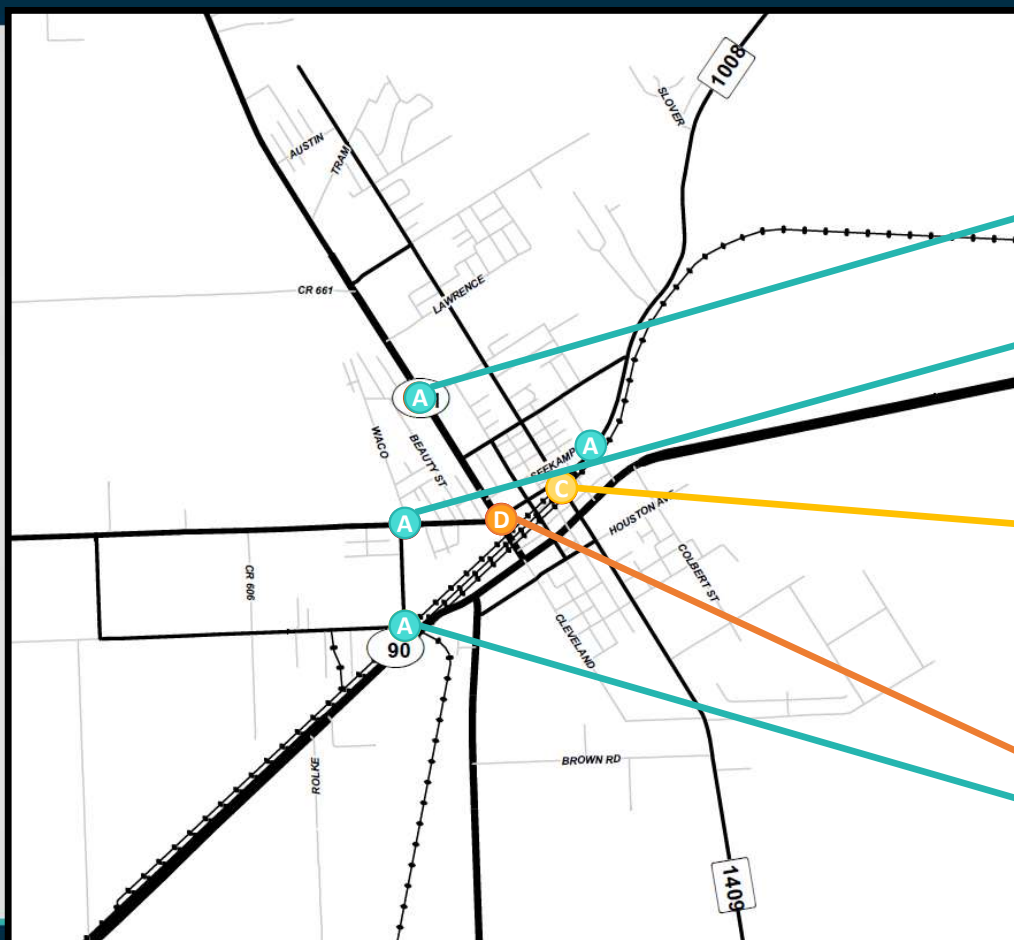
- + Widen bridge to 4 lanes
- + Install northbound left-turn lane
- + Install northbound and westbound left-turn lanes (dual left)
- + Install eastbound and westbound through lanes
- + Protected left-turns

Intersection Performance (2021)



- + Eastbound and westbound through lanes
- + Permitted-protected northbound left-turn lane
- + Signalize
- + Westbound and northbound left-turn lanes
- + Flashing Yellow Arrow
- + Eastbound right-turn lane
- + Signalize
- + Southbound right-turn and left-turn lanes

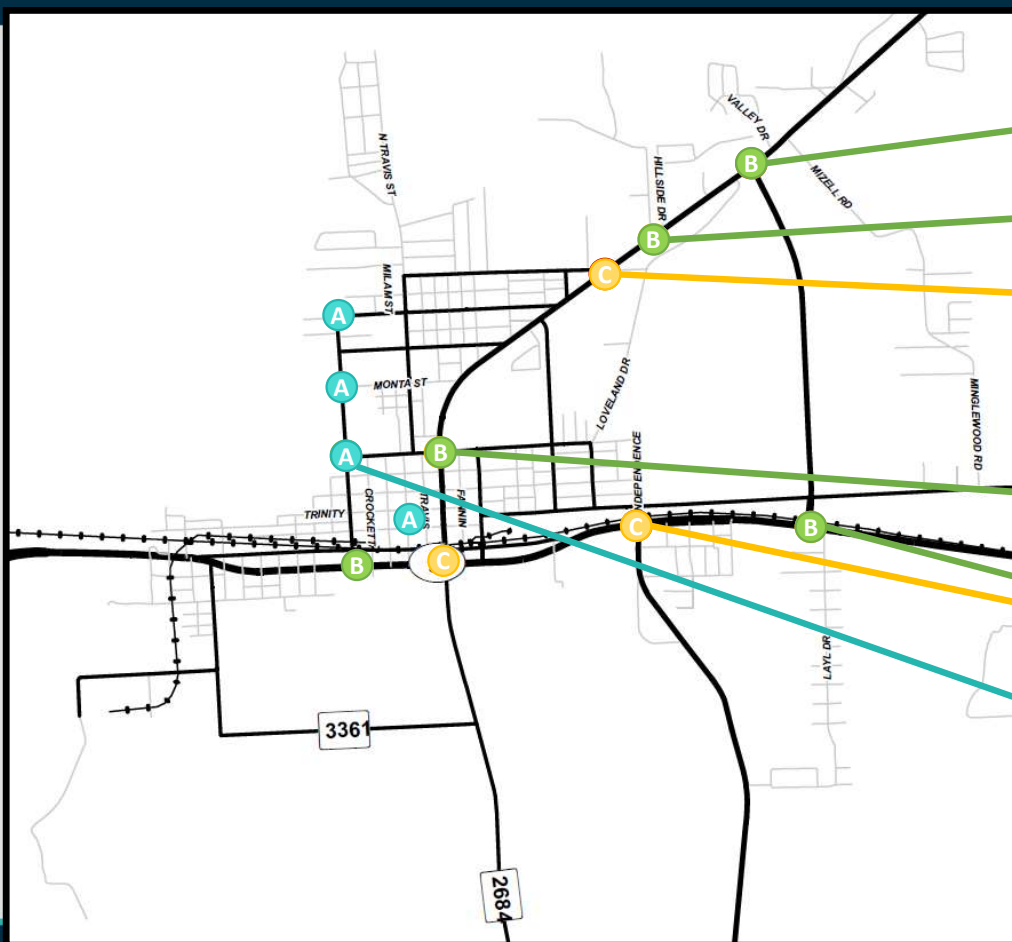
Intersection Performance (2045)



US 90 Bypass relief for all intersections

- + Westbound right-turn lane
- + Realign northbound and southbound approaches
- + Eastbound and northbound right-turn lanes
- + Left-turn lanes
- + Eastbound and westbound through lanes
- + Northbound and eastbound right-turn lanes
- + Westbound right-turn lanes

Intersection Performance (2021)



Coordinate signals along US 90

+ Permitted-protected left-turn

+ Southbound right-turn lane

+ Flashing Yellow Arrow

+ Northbound through lane

+ Eastbound and westbound left-turn lane

+ Flashing Yellow Arrow

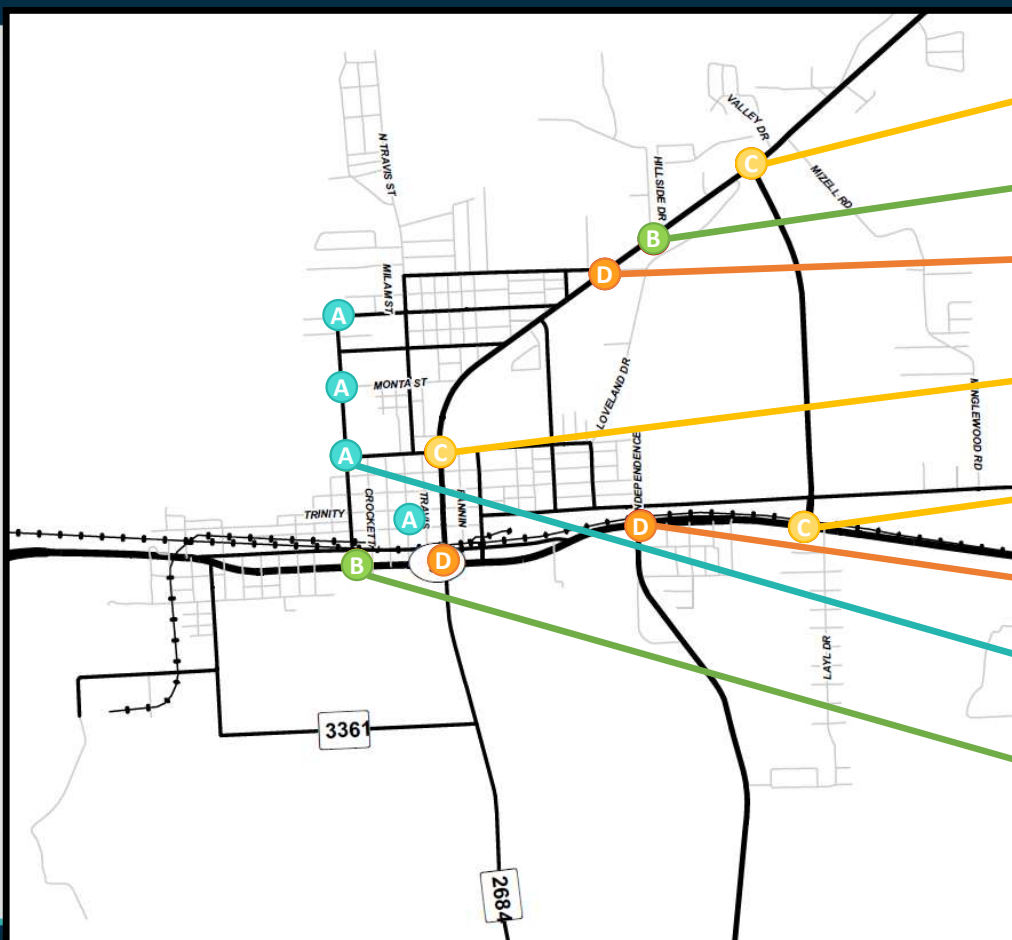
+ Optimize signal

+ Permitted-protected left-turns

+ Install stop signs

+ Westbound left-turn lane

Intersection Performance (2045)



- + Realign southbound approach
- + Realign northbound approach (driveway)
- + Eastbound and westbound through lanes
- + Southbound through-right turn lane
- + Northbound right-turn lane
- + Southbound left-turn lane
- + Optimize signal timing
- + Northbound and southbound right-turn lanes
- + Permitted-protected left-turn lanes

A blue-tinted photograph of a longhorn sculpture in a field of tall grass. The sculpture is made of woven material and stands in the background. The foreground is filled with tall, thin grasses. The text "POLICY / PRACTICES" is overlaid in the center in white, bold, sans-serif font.

POLICY / PRACTICES

Policy / Practice Recommendations

LIBERTY COUNTY

- Submittal requirements
 - Require a plat for all subdivisions
 - General Plan submittal for all contiguously-owned property
 - Digital submission process
 - Revise the plat submittal checklist
- General subdivision requirements
 - Common platting regulations / general street requirements
 - Points of access, block length, curve requirements, ROW widths, etc.
 - Consistent provisions for requiring ROW dedication for properties along MTP
 - Adopt Dayton's current sidewalk requirements
- Create roadway and utility Design and Construction standards

CITIES

- Adopt Liberty County regulations and standards; can apply more restrictive requirements if desired

Draft Recommendations

Draft Recommendations (Online Tool)

Comments Due By May 26, 2022

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Next Steps

- **Public Comments Due May 26, 2022**
- Public Meetings (In Person)
 - Liberty – May 12, 2022
 - Cleveland – May 18, 2022
- Steering Committee Meeting
 - Discuss Public Comments
 - Review Improvements
- Draft Report
- H-GAC / Steering Committee Review
- Final Report

Thank You! Further Discussion



For More Information:

www.h-gac.com/subregional-planning/liberty-county-study

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