



FM 2920/Main Street Town Hall

March 31, 2022

Introductions

- **David Esquivel, City Manager**
- **Jessica Rogers, Assistant City Manager**
- **Nathan Dietrich, Community Development Director**
- **Kelly Violette, TEDC Executive Director**
- **Catherine McCreight, TXDOT**
- **Ethan Beeson, TXDOT**
- **Kyle Bertrand, Gunda Corp.**

Agenda

- Housekeeping
- Project Overview
- Background
- Planning & Implementation
- Preliminary Design Concept
- Landscaping
- Q&A

**The presentation is about 30 minutes.
We have dedicated most of tonight to
making sure your questions get
answered.**



Project Overview & Background

Catherine McCreight, TXDOT



FM 2920

City of Tomball

Presented by: Catherine McCreight, MBA, MA

March 31, 2022





- FM 2920 from BS 249 to Willow Street
- Reconstruct four-lane roadway with raised medians, drainage, signal improvements, and sidewalks.
- Construction cost: \$28.613M (\$22.890M federal; \$5,722 state)
- City: Design, Utilities, and ROW (10% statutory)
- Let: 2023 (could be delayed)
- Construction time: <2 years
- Purpose of the project is to reduce crashes, improve mobility, and provide safer pedestrian accommodations

FM 2920 Access Management Study



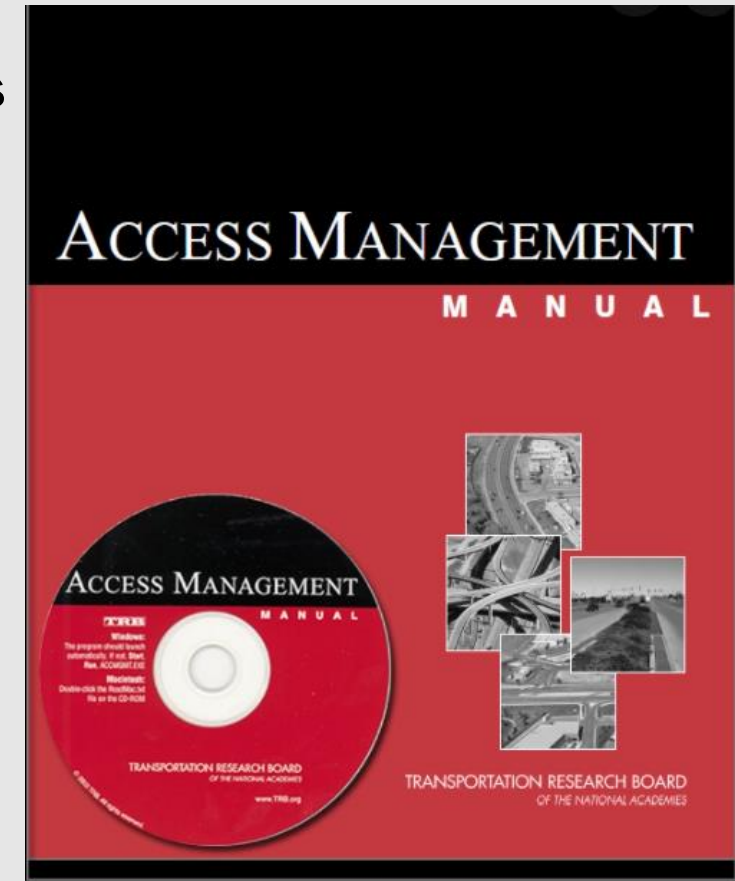
- Study initiated Nov. 2007, completed Nov. 2008
- Limits: IH 45 to US 290
- Identify access management treatments that:
 - Reduce crashes
 - Reduce congestion
 - Consider economic growth and vitality
- Deliverable: “...identify short-, medium-, and long-range improvement concepts that will improve safety and mobility, reduce motorist delay, reduce crash rates, enhance land use, and preserve long-term property value.” Also provide for “pedestrian connectivity as well as aesthetic and landscaping treatments to stimulate economic vitality.”



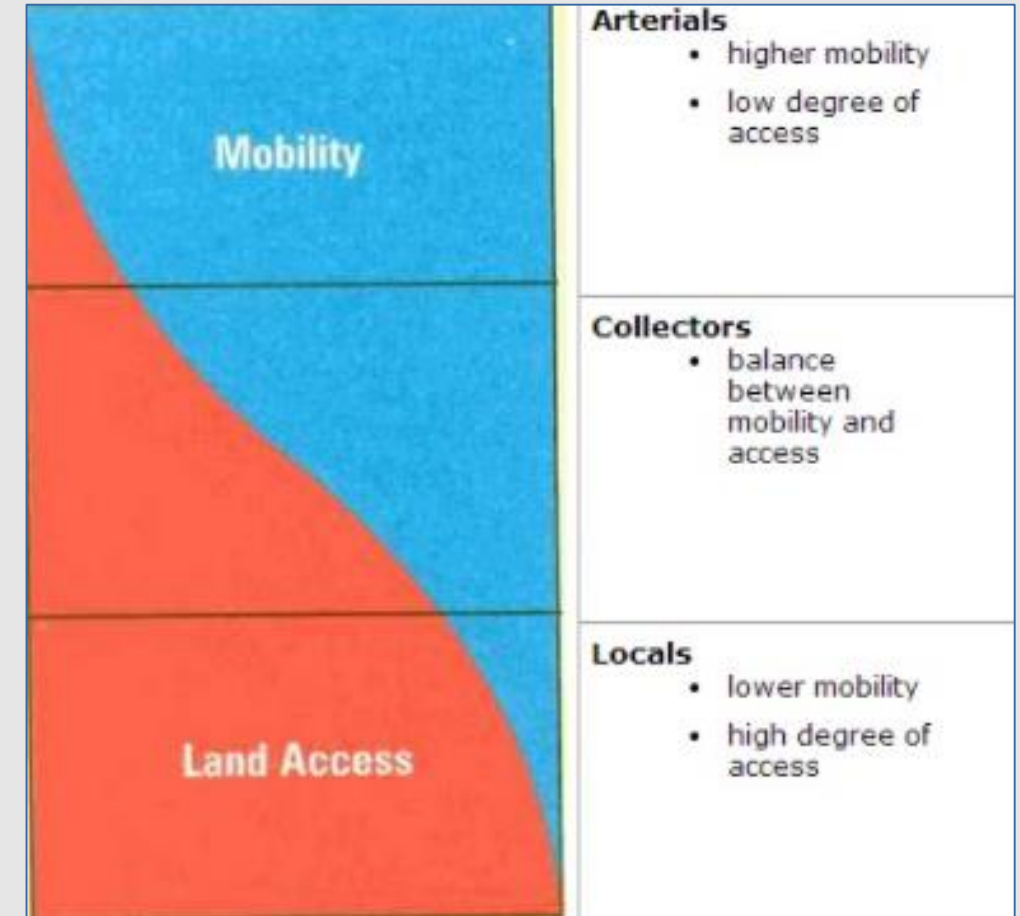
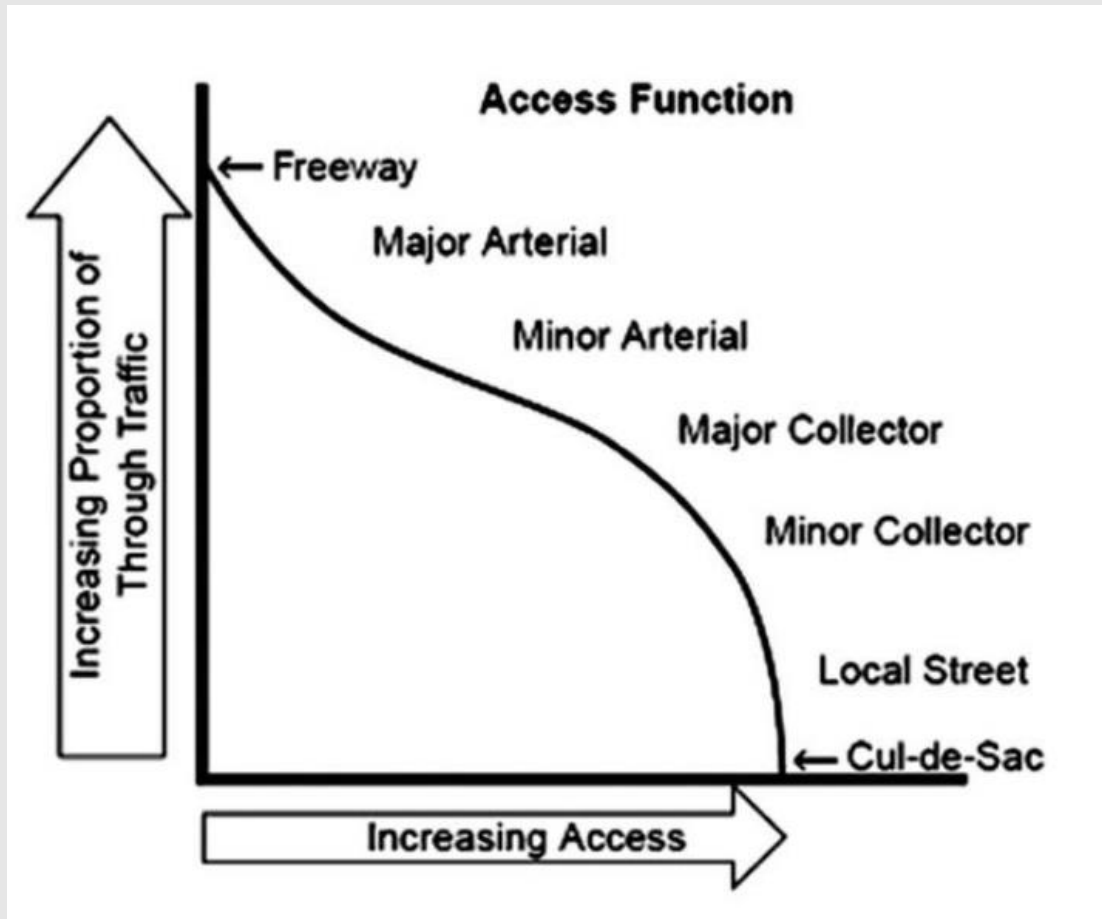
What is Access Management?



- Definition: The systematic control of the location, spacing, design, and operation of driveways, median openings, interchanges, and street connections to a roadway. The purpose is to provide vehicular access to land development in a manner that preserves the safety and efficiency of the transportation system. Safe access is good for business.
- What's in the Access Management Toolbox?
 - Median closures
 - Raised medians
 - Left/right turn lanes
 - Deceleration/acceleration lanes
 - Channelization
 - Driveway spacing/closure
 - Signal synchronization
 - Intersection spacing
 - Turning radii



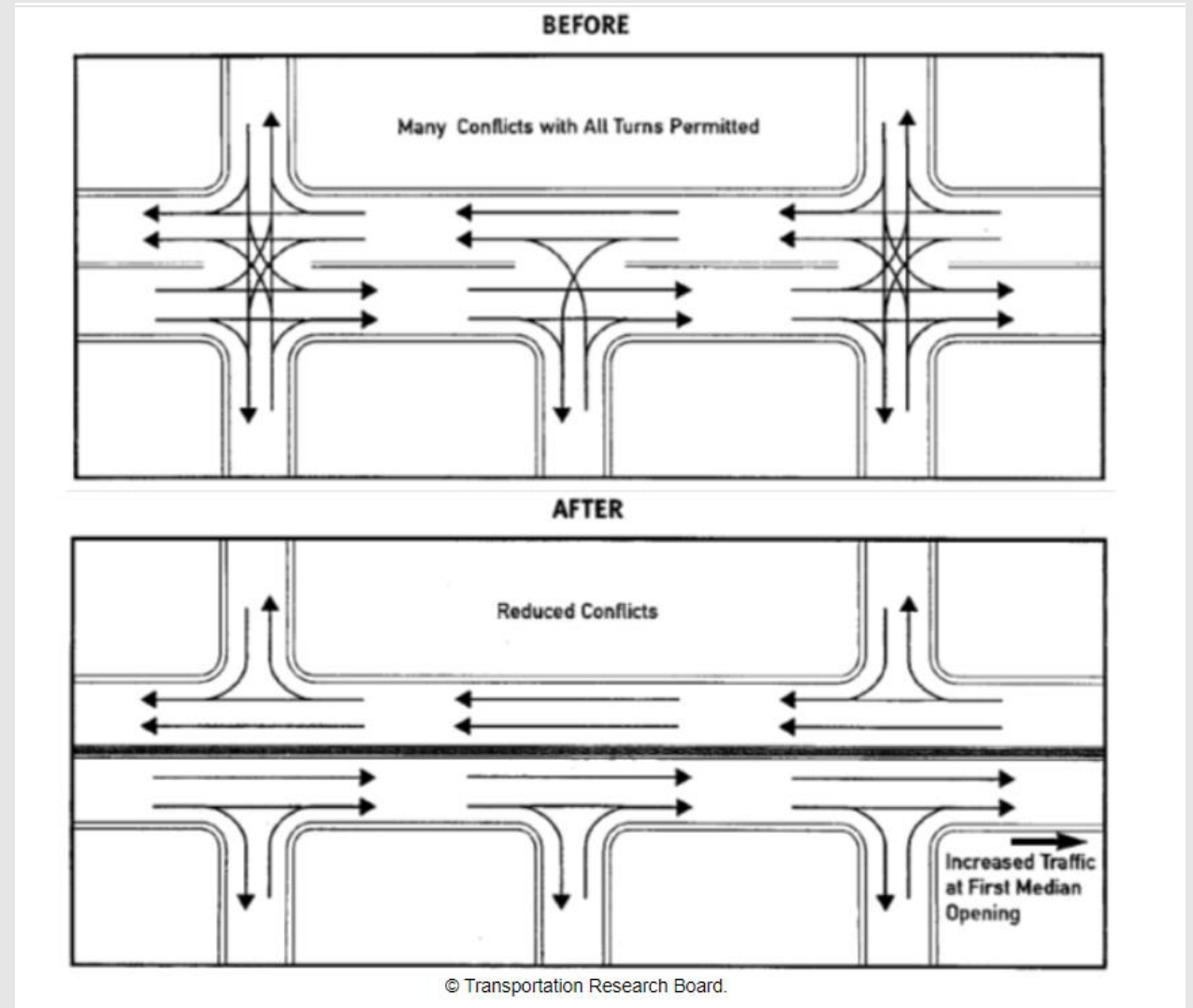
Roadway Hierarchy: How Roads Function



Conflict Points at Intersections



- Full intersections have 32 conflict points
- Cross access restriction reduces conflict points to four
 - Left turning vehicles account for 74 percent of intersection related crashes
- Raised medians eliminate head-on crashes
- Reduces vehicle, pedestrian, and bicycle conflicts
- Medians provide pedestrian refuge
- Reduced frequency of crashes



FM 2920 (SH 249 to Hufsmith Kohrville) Existing Conditions

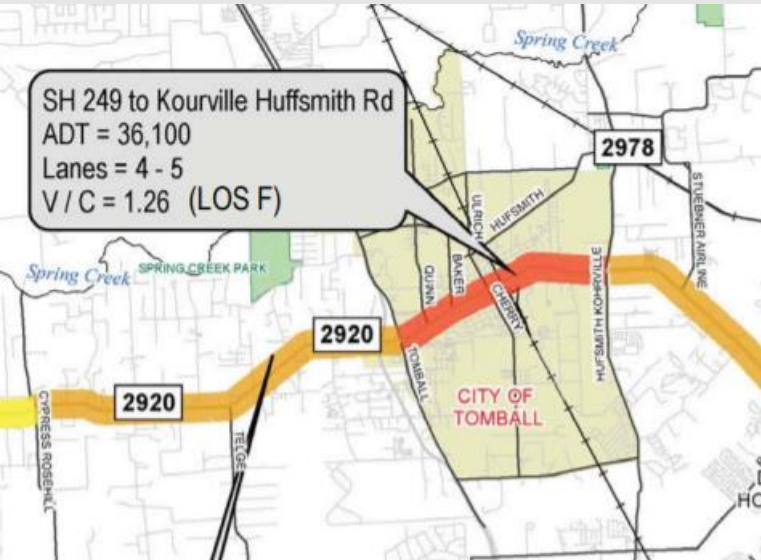


Figure 2.4 -Driveway Density Chart

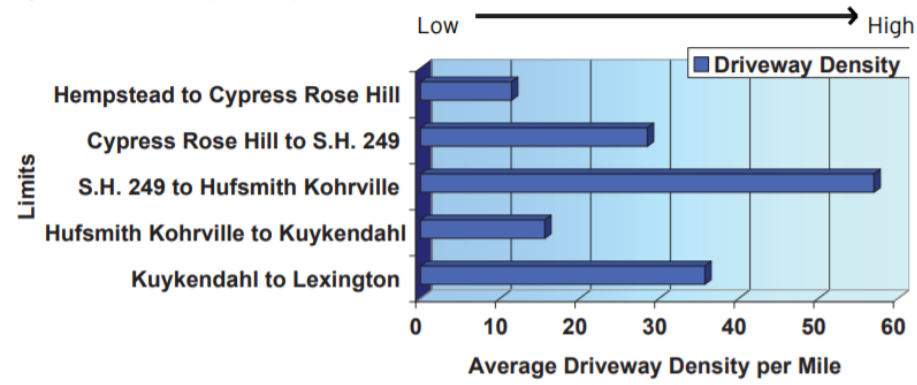
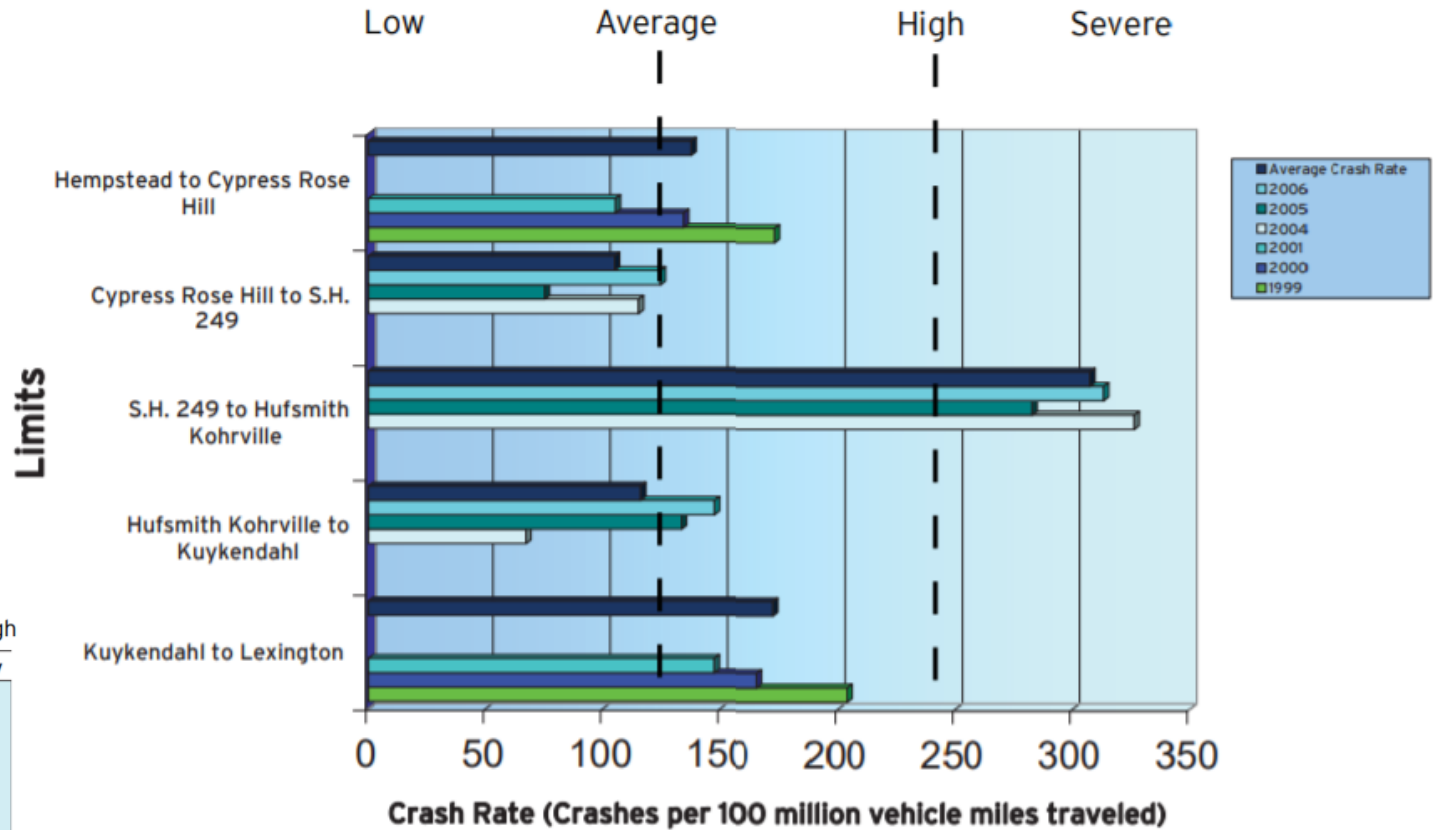


Figure 2.6 -Summary of FM 2920 Study Area Crash Rates from Various Sources.





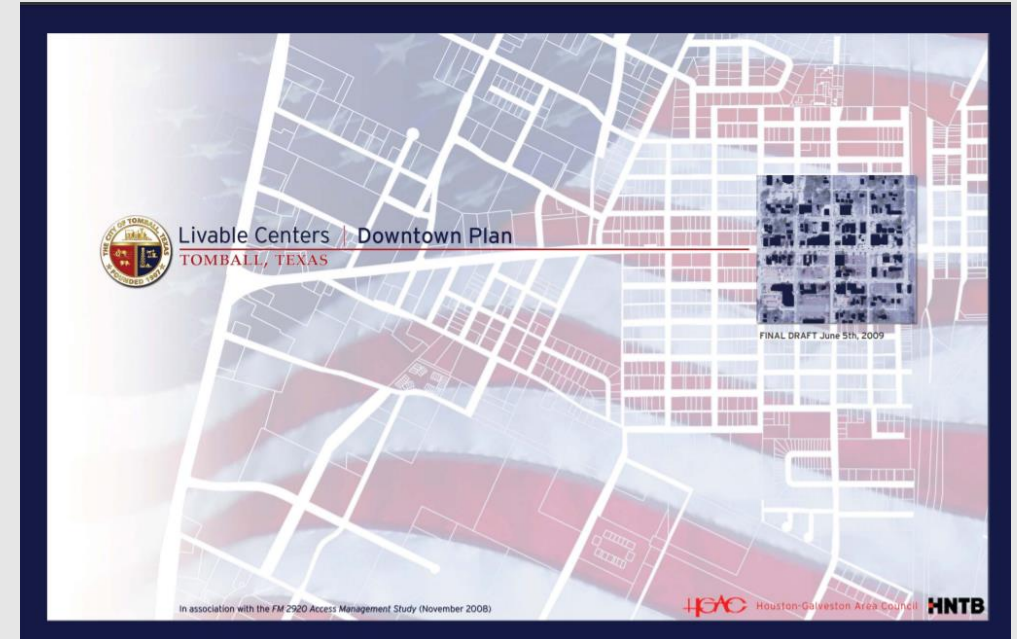
- Steering Committee Meeting: subject matter experts (MPO, TxDOT, Cities of Tomball and Waller, Harris County, others)
- Public Meetings
 - First series: November 14 & 15, 2007 (Lone Star Tomball & Krimmel Middle)
 - Second series: March 26 & 27, 2008 (Krimmel & Lone Star)
- Stakeholder Meetings – Emergency services, bicycle interests, Tomball CBD via Livable Centers Study



- Remove on-street parking and provide off-street parking with adequate signage
- Add wayfinding for business
- Introduce raised median with pedestrian refuge
- Provide channelized left turns
- Consolidate driveways
- Widen/improve sidewalks
- Update/Synchronize traffic signals
- Improve street signage and provide block numbers
- Add innovative pavement markings for RR and pedestrian crossings
- Improve parallel east-west facilities (reroute through traffic)



- City of Tomball Livable Centers Planning Study
- Bounds: Houston St. (north), Fannin St. (south), Pine St. (west), and BNSF (east)
- Purpose: develop the downtown public realm to preserve, promote, and enhance the Tomball “sense of place” as identifiable physical, social, and cultural heart of Tomball
 - Preserve eclectic and historic charm
 - Promote diverse and balanced mixed use and commercial retail “work, live, shop, play” pedestrian oriented downtown environment
 - Enhance collective sense of community pride and social interaction, celebration, gathers, and traditions that define Tomball





- Livable Centers Advisory Committee: TxDOT, MPO, City of Tomball, Tomball Chamber of Commerce, Others
- November 18, 2008 – Community Vision Workshop
 - Introduce planning process
 - Discover needs / identify objectives
 - Present preliminary findings
- February 12, 2009 – Community Framework Workshop
 - Solicit public input on recommendations for: parking, streetscape, and Depot



- Parking masterplan to create development access and pedestrian connectivity
- Pedestrian linkages and streetscape masterplan to develop pedestrian streetscape facilities that work cohesively with development
- Depot Site Open Space / Plaza Masterplan as community focal point
- Urban Design Guidelines and Framework Recommendations:
 - Wayfinding
 - Utility infrastructure
 - Architectural façade, form, character
 - Identify infill development
 - Context for downtown land use
 - Landscape design for street medians, edge plantings, landscape buffers, etc.

#EndTheStreakTX

End the streak of daily deaths on Texas roadways.

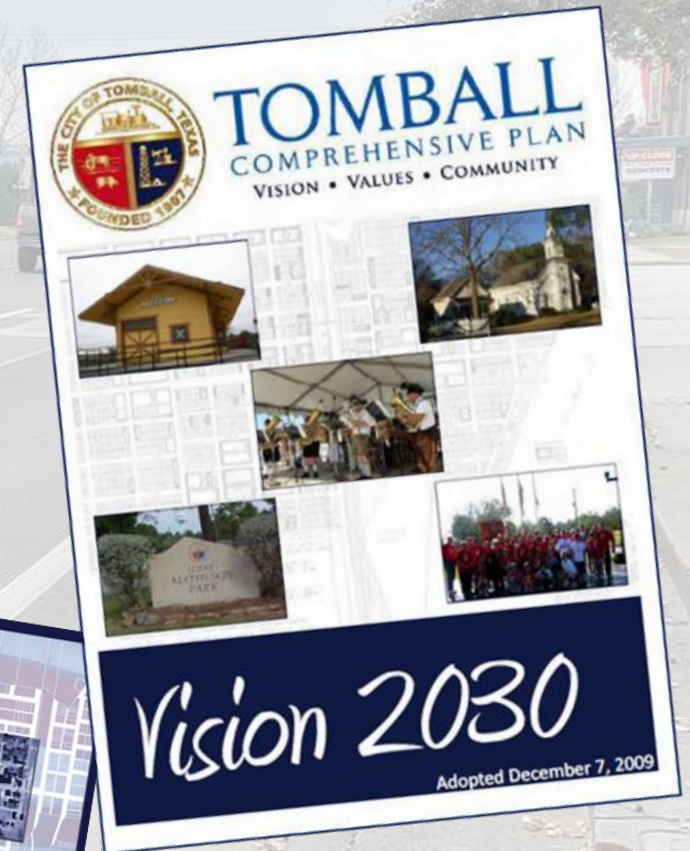


Planning & Implementation

Nathan Dietrich, City of Tomball & Kelly Violette, TEDC

Planning for the Future

- Zoning Ordinance
- FM 2920 Access Management Study
- Livable Centers Downtown Plan
- Tomball Comprehensive Plan

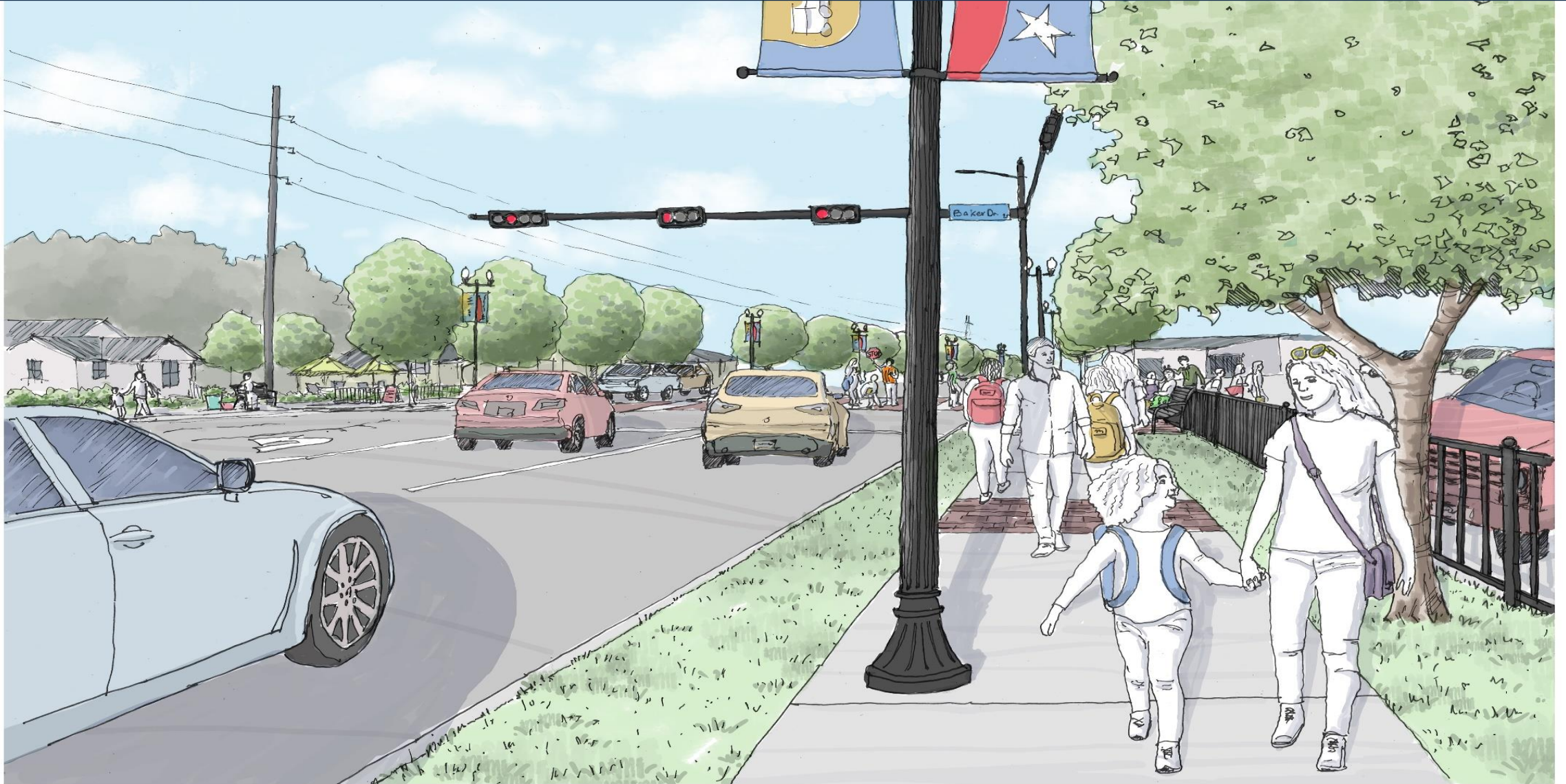


Visioning



FM 2920 PROPOSED IMPROVEMENTS
View North from Business 249 at FM 2920 (East Side)

Visioning



Visioning



Visioning



FM 2920 PROPOSED IMPROVEMENTS
View East at Pine Street (South Side)

Goals

- Activate the pedestrian realm
- Provide public parking
- Enhance the Depot Plaza



Implementation Projects



Public Parking & Sidewalks

- 372 public parking spaces at the time of the Study (2009)
- Study recommended adding 111 public parking spaces
- Removal of 76 public parking spaces along Main St.
- Addition of 263 public parking spaces
- 559 total public parking spaces (2020)
- New sidewalks along portions of Commerce, Walnut, Market and Lawrence streets



Depot Plaza



Depot Plaza



Public Art



Alleyways

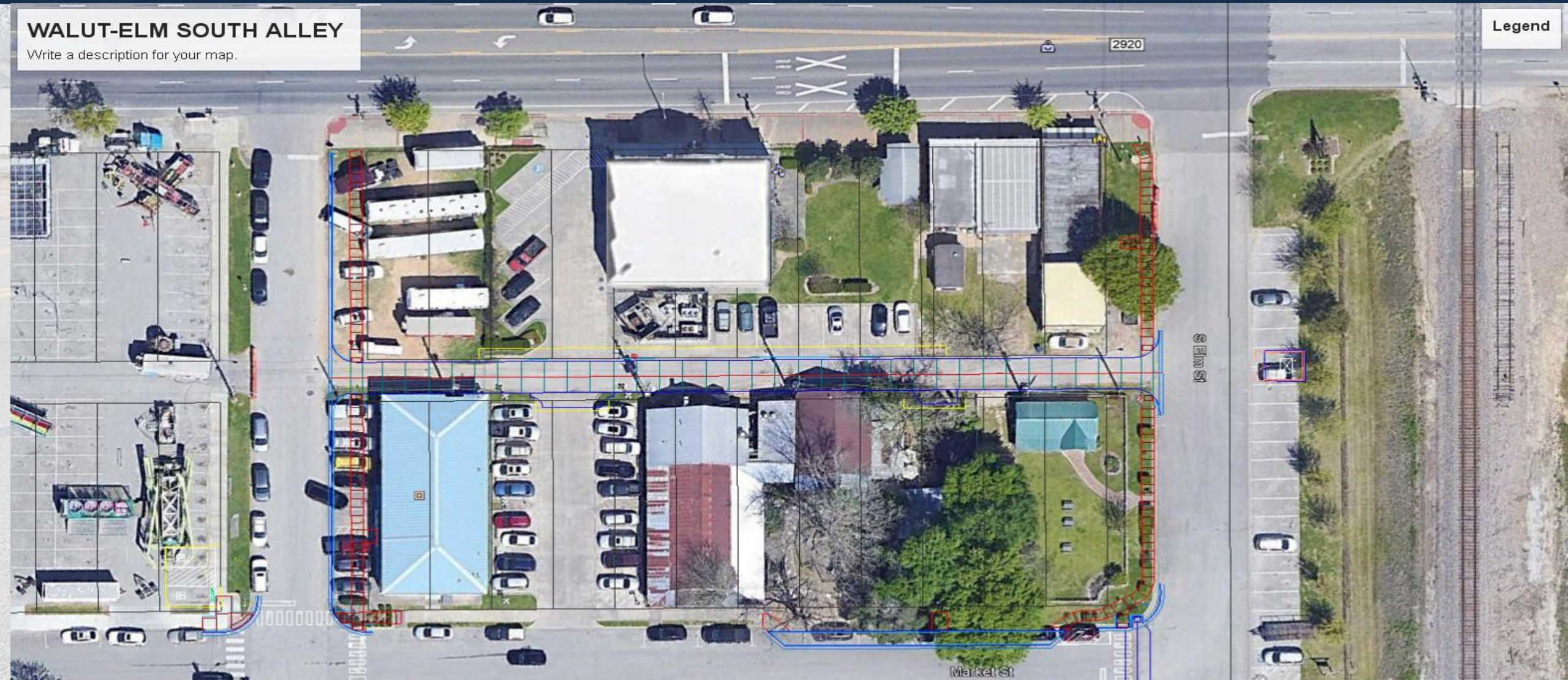


Alleyways

WALUT-ELM SOUTH ALLEY

Write a description for your map.

Legend



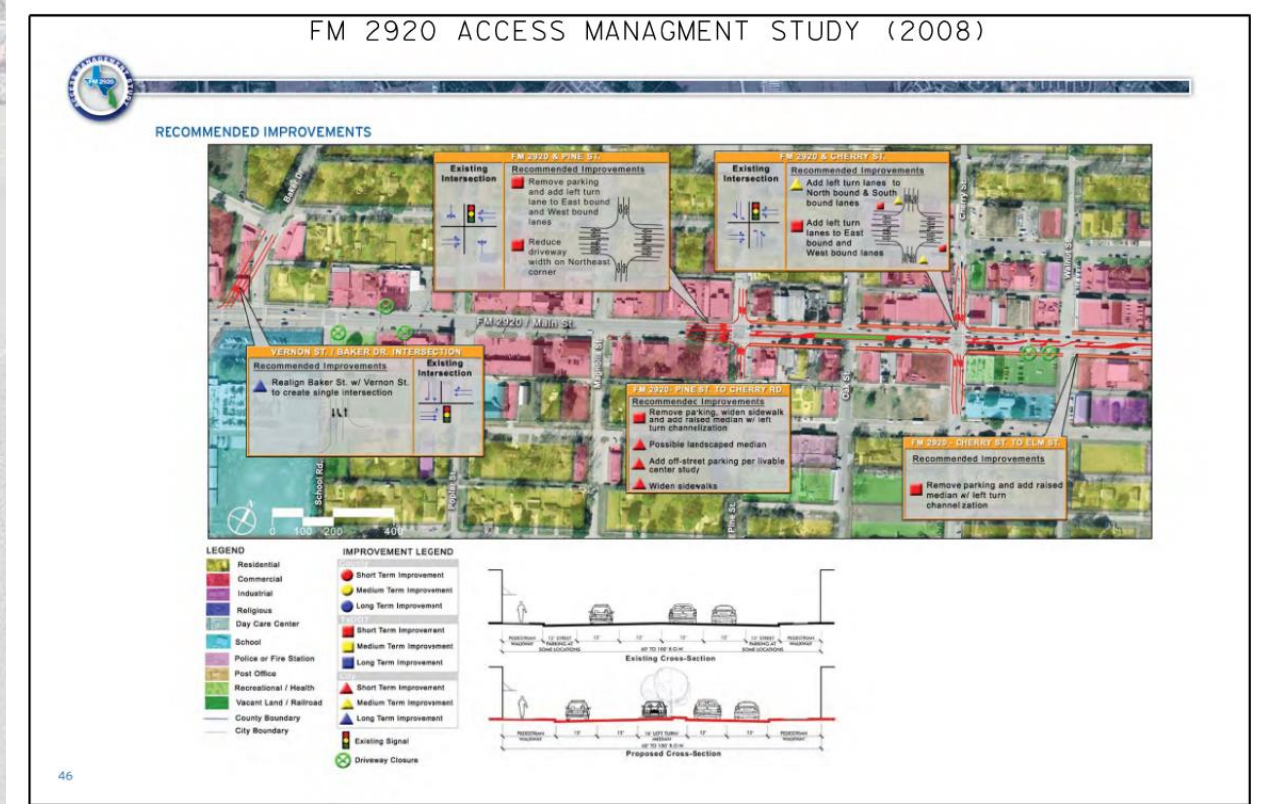


Preliminary Concept

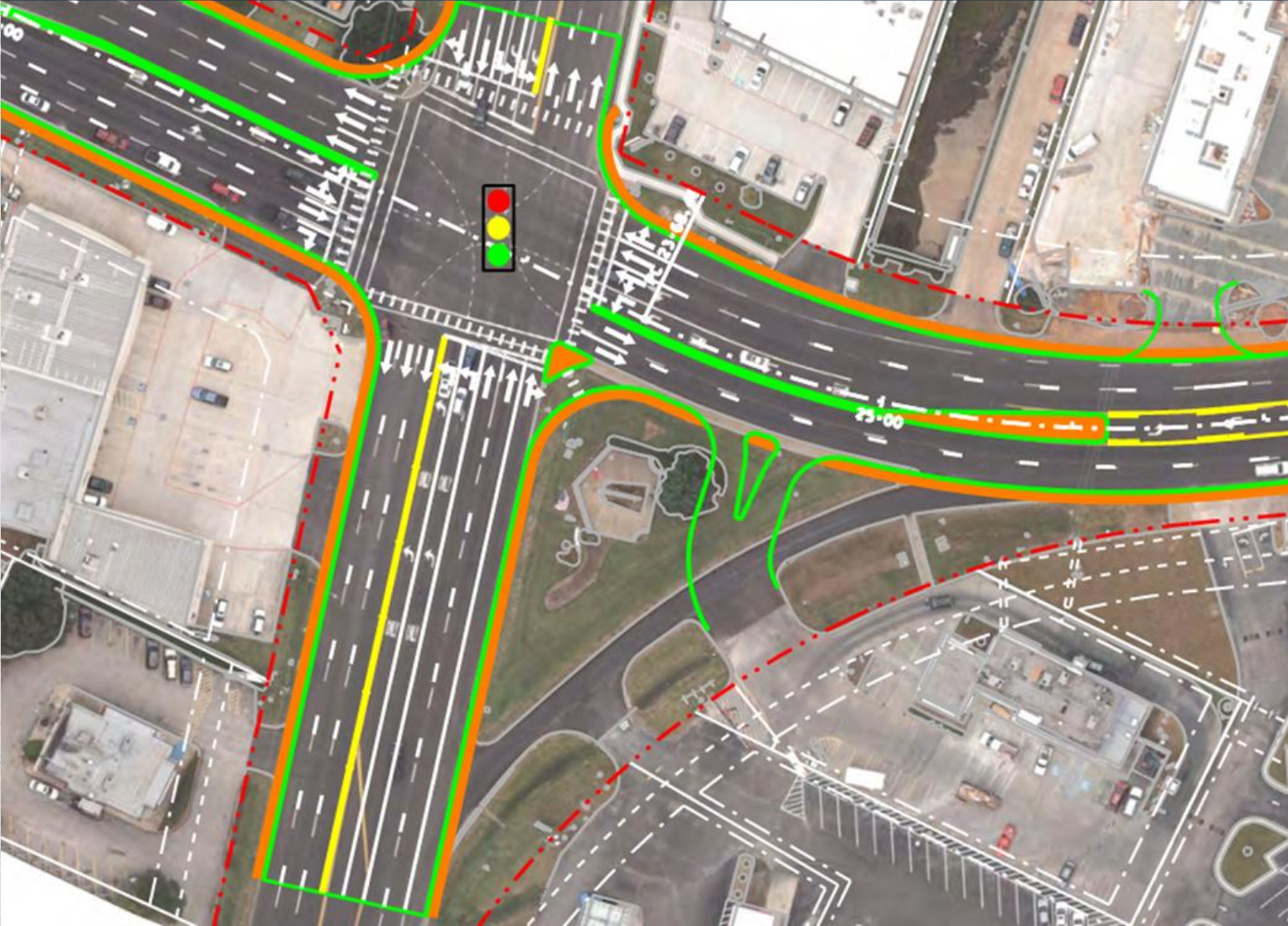
Kyle Bertrand, Gunda Corp.

Engineering Elements

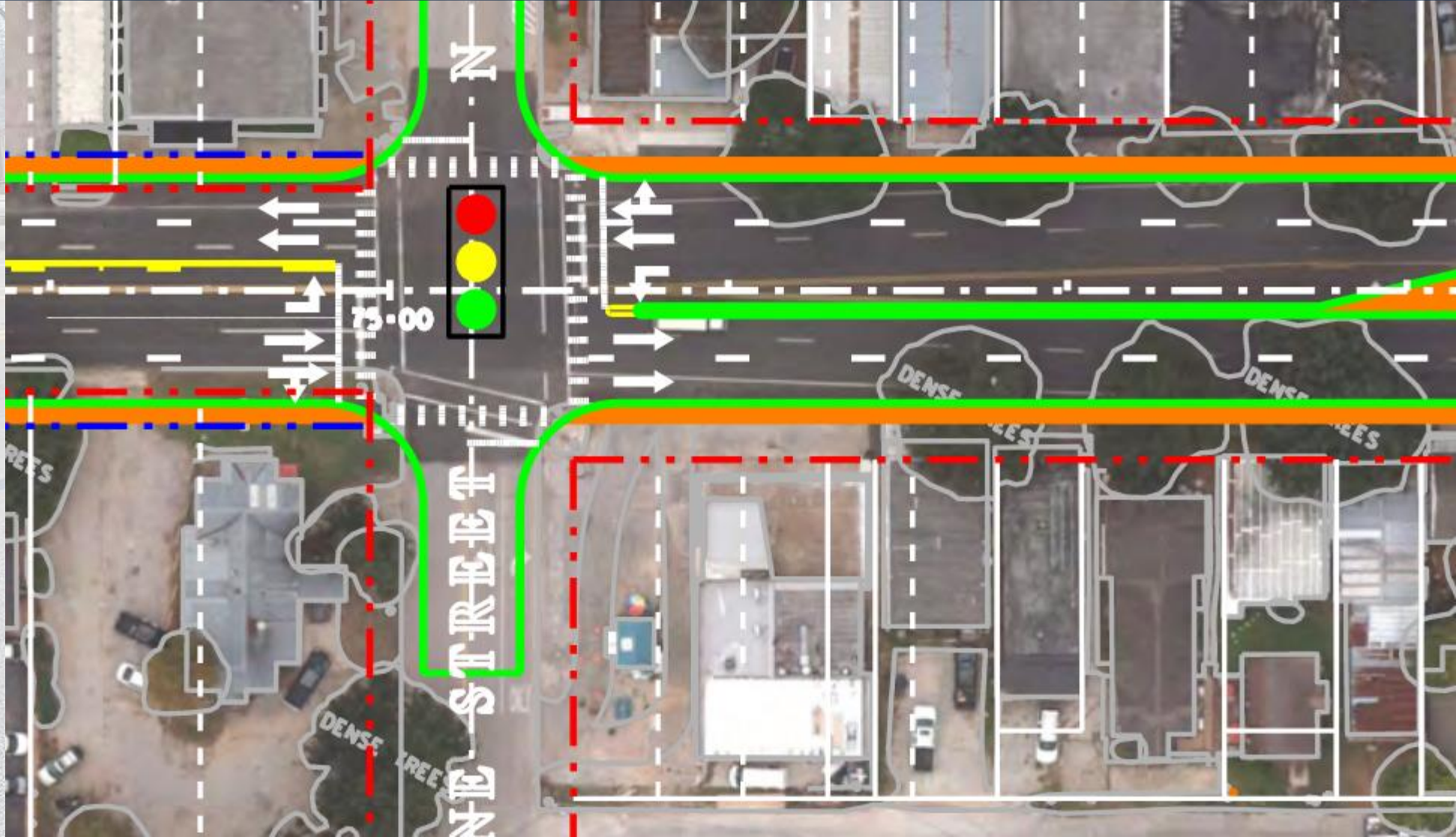
- Reconstruction with concrete pavement
- New sidewalk (5ft minimum, 16 feet in Old Town Tomball)
- Removal of northbound right turn at SH249 Business & FM2920
- Improve side street turning radii
- Completion of center turn lane
 - School to Pine (currently no turn lane)
 - Sycamore to Willow (currently no turn lane)
- Raised medians with pavers and possible landscaping
 - SH249 to SH249 Business – to remain
 - FM 2920 East side of SH249 Business intersection- Add for approximately 300ft Pine to Elm- 14 in width
 - Mast arm signals with interconnect
 - Pedestrian lighting
 - Drainage improvements
 - Relocate City utilities currently under the pavement in accordance with City planning documents



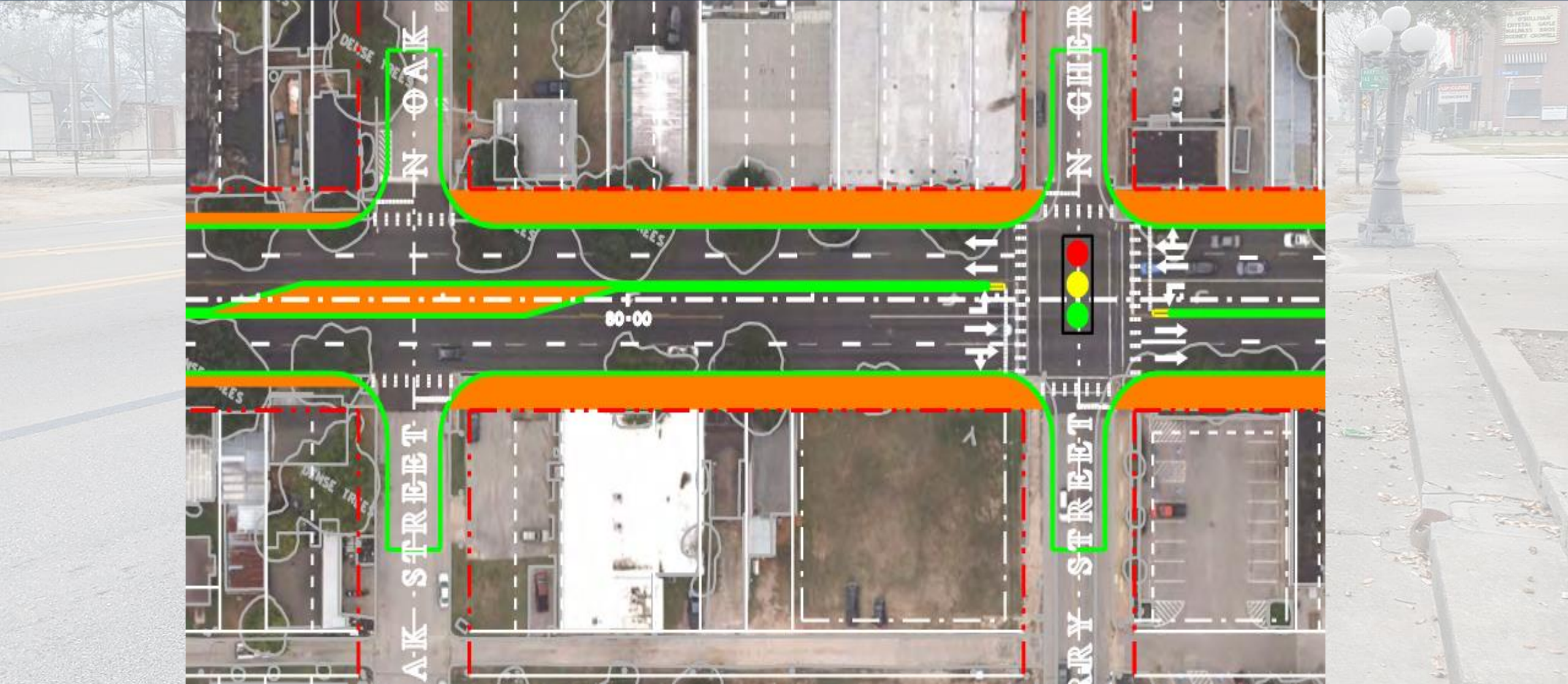
Four Corners



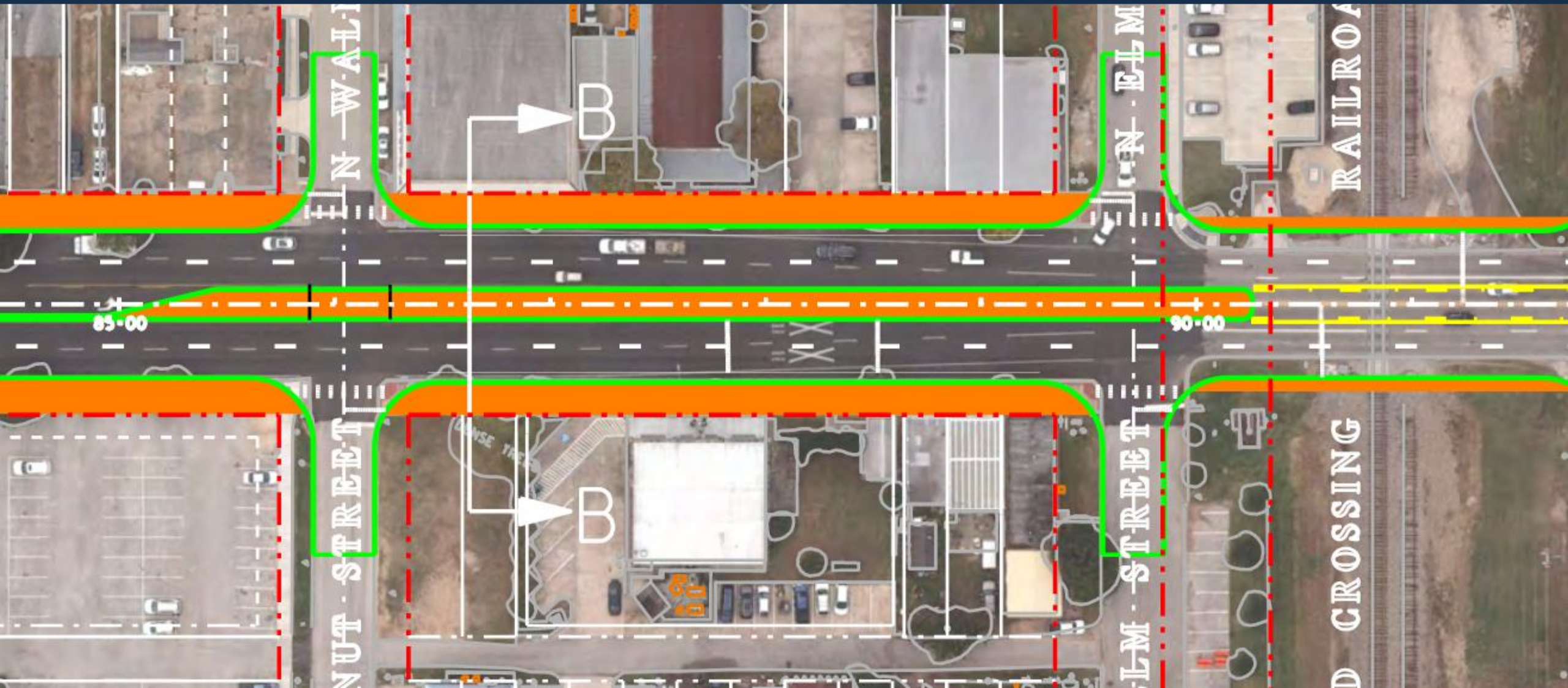
Pine Street



Oak to Cherry



Walnut to Elm





Landscaping & Trees

Ethan Beeson, TXDOT

A wide-angle photograph of a street in a small town. On the left, a large white building with a porch and a sign that says "Me and My Porch" is visible. A red car is parked in front of it. To the right of the red car, a truck is driving on the road. The street is paved and has a white line marking. There are trees and streetlights on both sides of the road. The sky is overcast.

Questions?

Thank you for coming!