City Council Work Session
January 14, 2020
Overview

Draft Thoroughfare Plan
Methodology
2030 Comprehensive Plan
Roadway Classifications & Cross Sections
Proposed Plan Updates

Draft Bicycle Plan
Methodology
Proposed Plan Updates

Draft Pedestrian Plan
Methodology
Proposed Plan Updates
DRAFT THOROUGHFARE PLAN
Draft Thoroughfare Plan
Methodology

ACCOMPLISHED
- Reviewed Existing Roadway Alignments
- Identified Future Roadway Projects
- Developed Draft Thoroughfare Plan
- Updated Travel Demand Model
- One-Way vs Two-Way Roadway Analysis

UPCOMING
- Bell Avenue Closure Analysis
- Finalize Thoroughfare Plan
- Prioritize Recommendations
- Develop Cost Estimates

ID: 19-2883 DATE: 1.14.20
Mobility Vision Statement: Sound Growth – Strengthening Our Form and Function

- An efficient transportation system with a safe and well-connected road network which accommodates a wide array of mobility options, including local and commuter rail transit, as well as accommodations for pedestrians and cyclists.

- Infrastructure systems which have undergone well-planned, staged expansion to serve and manage the city’s growth.
Draft Thoroughfare Plan
2030 Comprehensive Plan

Land use and other demographics are being updated as part of the Mobility Plan Travel Demand Model. The updated model will be used by the Planning Department for the upcoming Comprehensive Plan Update.
Draft Thoroughfare Plan

Travel Demand Model

4 Steps Process

- Trip Generation
- Trip Distribution
- Mode Choice
- Traffic Assignment

Households

Traffic Analysis Zones

Employment

Roadway Network

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## Draft Thoroughfare Plan

### Roadway Classifications

<table>
<thead>
<tr>
<th>Classification</th>
<th>Definition</th>
<th>ROW (ft)</th>
<th>Lanes</th>
<th>Speed (mph)</th>
<th>Volume Capacity (vpd)</th>
</tr>
</thead>
</table>
| Freeway        | - Owned and maintained by TxDOT  
- Grade separated traffic  
- Moves traffic through and around City | Varies | Varies | >60 | Varies |
| Primary Arterial | - Owned by City or TxDOT  
- At grade traffic controlled by traffic signals  
- Regional connections, into and through City  
- Capable of high traffic volumes | 135 | 4 or 6 | 45 | 25,000 – 37,500 |
| Secondary Arterial | - Primarily owned by City  
- Serves citywide traffic, but less regional traffic  
- Moderate levels of traffic  
- Ability to incorporate other modes of travel | 110 | 4 | 40 | 23,000 |
| Collector      | - Owned and maintained by City  
- Serves neighborhood traffic  
- Low levels of traffic | 65 | 2 | 35 | 10,000 |
Draft Thoroughfare Plan
Primary Arterial Cross Sections

Existing

Updates:
- Relocating bicyclist off the road
- Providing alternatives for rural roads to preserve ROW

Proposed (New Build)

Proposed (New Build): Rural Alternatives
Draft Thoroughfare Plan
Primary Arterial Cross Sections

Updates:

- Providing alternatives for urban road reconstruction with ROW restrictions
Draft Thoroughfare Plan
Secondary Arterial Cross Sections

Existing

Updates:
- Adding a buffer to bicycle lane
- Providing alternative for rural roads to preserve ROW
Draft Thoroughfare Plan
Secondary Arterial Cross Sections

Proposed (Reconstruction): Urban Alternatives

Updates:
- Providing alternatives for urban road reconstruction with ROW restrictions
Draft Thoroughfare Plan
Collector Cross Sections

 existing

 Proposed (New Build)

 Proposed (Reconstruction): Urban Alternatives

 Updates:

 - Providing alternatives for urban road reconstruction
Draft Thoroughfare Plan

Vicinity Map
Draft Thoroughfare Plan

2015 Plan Map

Draft 2020 Plan Map

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Draft Thoroughfare Plan
Proposed Plan Updates

1. Oak Street & Jim Christal Road
2. Welch Street & Ave A
3. Eagle Drive
4. Elm Street & Locust Street *

*To be discussed in separate work session
Draft Thoroughfare Plan
1. Oak Street & Jim Christal Road

2015 Plan
(Primary Arterial)

- Existing Daily Volume (East of IH-35) = 7,800 vehs
- Existing Daily Volume (West of IH-35) = 2,300 vehs

Draft 2020 Plan
(Secondary Arterial)

- Estimated Daily Volume = 15-20,000 vehs
- Maintain Roadway Classification Consistency
Draft Thoroughfare Plan

2. Welch Street & Ave A

- **2015 Plan (Collector)**

- **Draft 2020 Plan (Secondary Arterial)**

- **Existing Daily Volumes**
  - Welch = 6,500
  - Ave A = 6,000

- **Estimated Daily Volumes**
  - Welch = 10,000
  - Ave A = 10,000

- **Matching Existing Roadway Functionality**
Draft Thoroughfare Plan

3. Eagle Drive

- Existing Daily Volumes
  Eagle = 11,000

- Estimated Daily Volumes
  Eagle = 15-20,000

- Matching Existing Roadway Functionality
- Maintain Roadway Classification Consistency
DRAFT BICYCLE PLAN
Draft Bicycle Plan

Methodology

- Review the Current Plan and Improvements since Adoption
- Review Barriers and Constraints
- Identify New Bicycle Network Opportunities
- Determine Priority Connections and Destinations
  - Connect Parks & Rec Trails to Street System
  - Downtown Central Business District, Shopping Areas
  - Universities
- Bicycle Facility Selection Guidance
  - What Facilities are Appropriate Based on the Area
  - Project Prioritization Criteria
Draft Bicycle Plan

Facility Types

On-Street

- Shared Lanes (Sharrows)
- Conventional Bike Lanes
- Buffered Bike Lanes
- Separated (physical barrier) Bike Lanes/Cycle Track

Off-Street

- Shared Use Sidepaths (within right-of-way)
- Trails (outside right-of-way, often on Parks Property)
Draft Bicycle Plan

2014 Plan Map

Draft 2020 Plan Map

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DRAFT PEDESTRIAN PLAN
Draft Pedestrian Plan

Methodology

- No Previous Plan
- Data Collection – GIS mapping software & field work
- Identify Network Gaps
  - ADA Compliance & Accessibility
- Determine Priority Connections and Destinations
  - Focus on citywide needs, not just neighborhoods
  - Roads on the Thoroughfare Plan within ¼ mile school walkshed
  - Closing gaps in existing infrastructure
  - Sidewalks within the CBD, UNT, and TWU
  - High ridership transit stops
  - Focus on intersection crossings (including corridor barriers)
Draft Pedestrian Plan

- Existing Sidewalks
Draft Pedestrian Plan

- Existing and Upcoming Sidewalks
Draft Pedestrian Plan

- Pedestrian Plan – Low and High Priority Segments
Draft Pedestrian Plan

- Existing, In-Process and Future Sidewalk Segments

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Questions?