



# Capital Projects Overview

January 25, 2024

# Roadway System

- Major Highways = SH 114 and US Hwy 81/287
- Main Street – Hwy 81/287 Business
- FM 3433
  
- Total Street Miles = 25.89
- Approximately 5% of city streets are curb & gutter
- Approximately 5% was in low to poor condition (2016)

# Goals and Objectives

**GOAL:** To have a safe and drivable street system that can accommodate the City's vehicular demands.

**Objective:** Continue to inspect road surfaces & repair when necessary.

## Maintenance

Priority	Frequency	Description
1	Each Year	Start street seal coat program. Should include 1.5% of City's streets each year on a continuous basis.
2	Each Year	Cleaning & deepening ditches on each side of paved streets including clearing culverts. Grade edges of asphalt paving to clear grass & silt build-up. Clear curb and gutters of sedimentation & vegetation.

# City Projects

Priority	Name	Description	Status
1	Virginia Lane	Widening and new three (3) lane undivided minor arterial	
2	Virginia Lane to SH 114	New three (3) lane undivided minor arterial	
3	Hickory to Virginia	New three (3) lane undivided minor arterial	
4	Hickory St.	Widening & new three (3) lane undivided minor arterial	
5	Pioneer Rd.	Widening to three (3) lane undivided minor arterial	
6	E 2 <sup>nd</sup> Street	Quiet Zone Installation for Train Crossing	
7	Morris Street	Repave/drainage/utilities reconstruction	
8	Crown Point	Various roads need rebuild or crack/seal	
9	Alliance Blvd.	Entrance area from SH 114 needs repair	
10	Old Town	Various roads need rebuild or crack/seal	
11	Redbud	Reconstruction and widening	
12	Oak Court	Paving (currently gravel)	
13	Family Park	Repave/resurface parking lot area	

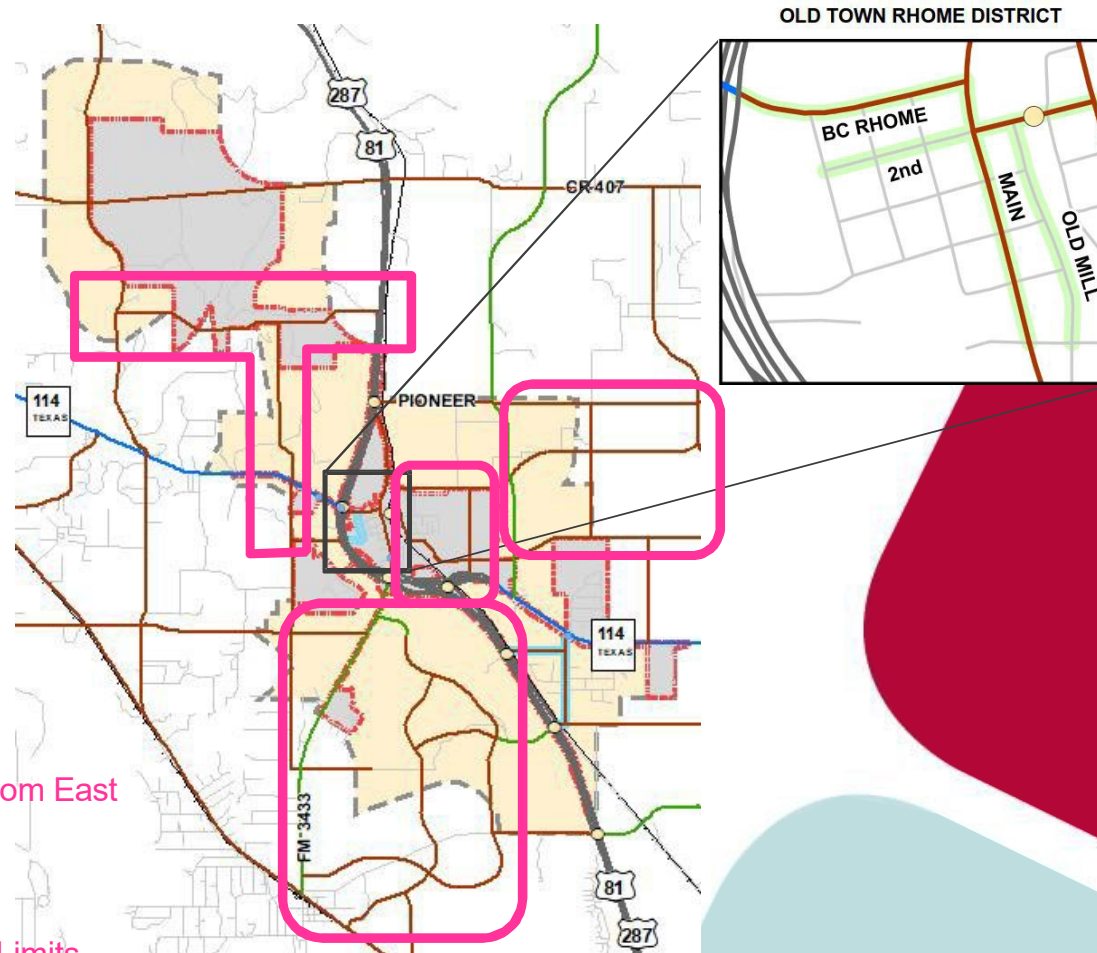
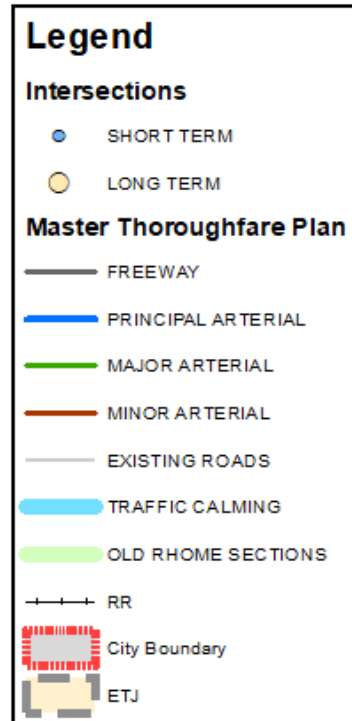
# State or County Projects

Priority	Name	Description	Status
1	SH 114 & US 287	Install signal light to help with traffic control and safety.	
2	S Main St	Road Repair	
3	SH 114 & Alliance Blvd.	Install signal light to help with traffic control and safety.	
4	FM 3433	Widening to four (4) lane divided major arterial	
5	CR 4651	Widening and construction of three (3) lane undivided minor arterial	
6	FM 3433 - Ramhorn Hill Connection	New four (4) lane major arterial and three (3) lane minor arterial	
7	Ramhorn Hill Rd	Widening to a three (3) lane undivided minor arterial	

# Development Related

Priority	Name	Description	Status
1	Virginia Ln.	Hickory to Future Joy Rd. Dependent on Prairie Point	
2	S Main St	Future Joy Rd to Future CR 4733. Dependent on Prairie Point	
3	Joy Road	Widening and new four (4) lane divided major arterial. Dependent on Prairie Point	

# Master Thoroughfare Plan

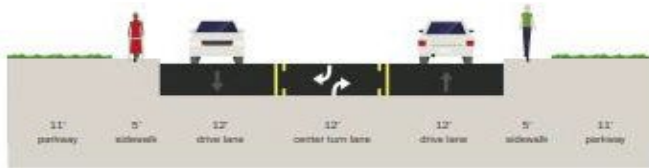


- Crown Point/Prairie Point
  - Access via SH 114 from East
- Rolling V
- General Connectivity/Grid
- Future Access to NW City Limits

# Master Thoroughfare Plan Cross Sections

## Minor Arterial

Minor Arterial - 3U



Minor Arterial - Urban



Minor Arterial - Rural

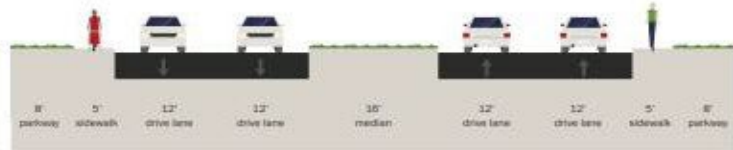


## Major Arterial

Major Arterial - 5U



Major Arterial - Urban



Major Arterial - Rural



## Principal Arterial

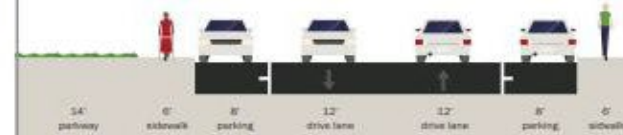


## Old Rhome

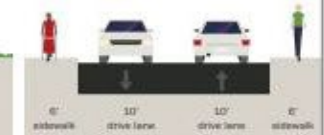
Old Rhome - Existing



Old Rhome - Widened

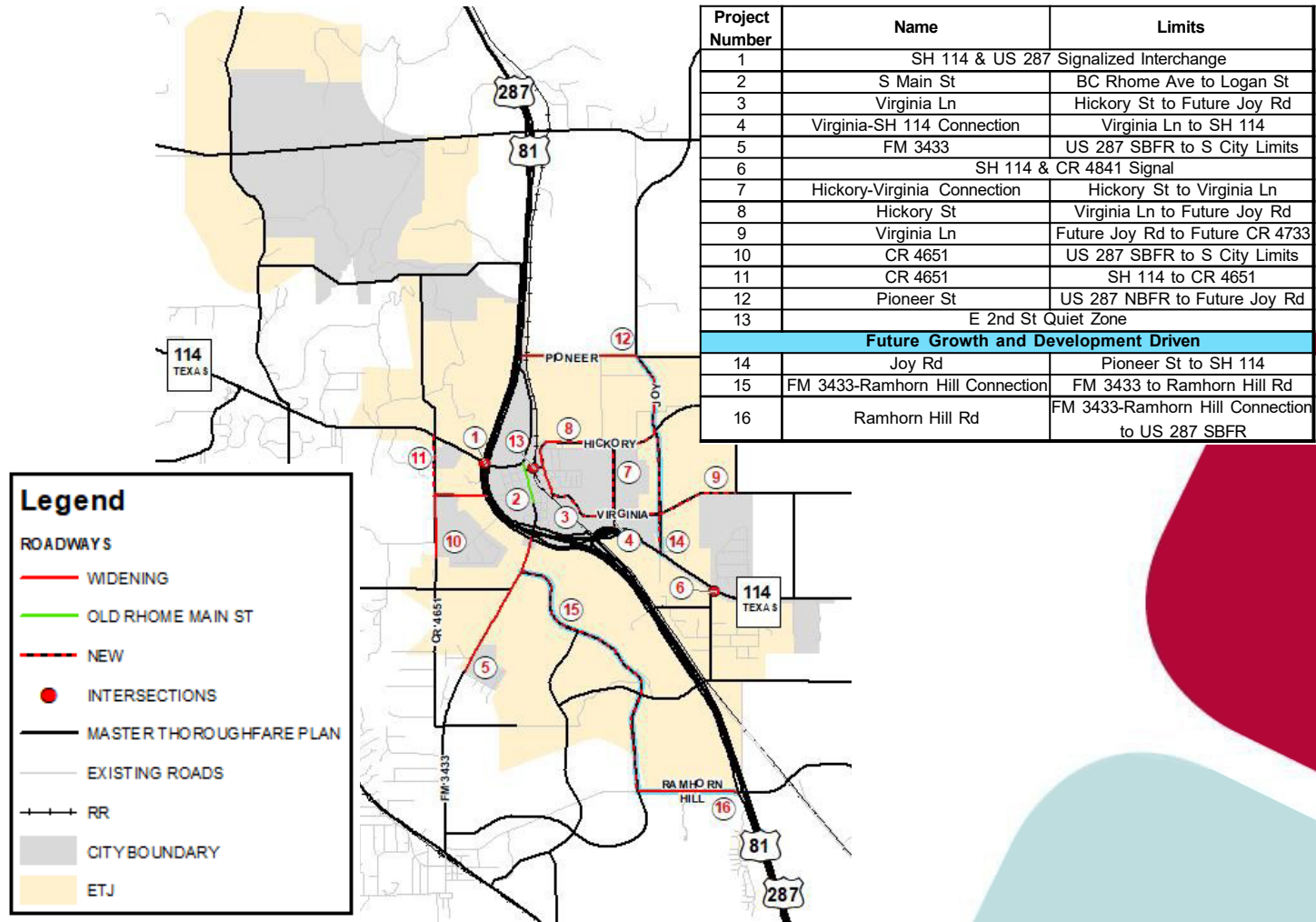


Old Rhome - Constrained





# Capital Improvements Plan



**Legend**

**ROADWAYS**

- WIDENING
- OLD RHOME MAIN ST
- NEW
- INTERSECTIONS
- MASTER THOROUGHFARE PLAN
- EXISTING ROADS
- RR
- CITY BOUNDARY
- ETJ

# Storm Drainage System

- Drains into three (3) creeks
  - West Fork of Trinity River
  - Derrett Creek
  - Elizabeth Creek
- Storm Culverts at street crossings, low channels, and ditches
- Four (4) areas of city in FEMA 100-yr floodplain

# Goals and Objectives

## GOAL 1:

To minimize or eliminate flooding at the Morris and Dogwood Street intersection and the area of the By Well Estates.

## Objective:

- Install two culverts; one at Morris St. and at Dogwood.
- Clean and grade ditches as necessary.

# Goals and Objectives

## GOAL 2:

Minimize or eliminate potential flooding through residential areas.

### Objective:

- Re-grade silted ditch lines by 2020 & eliminate ponding in low areas.

- Clean out silted structures by 2020.

Replace undersized culvers by 2036.

# Goals and Objectives

## GOAL 3:

Maintain major drainage structures that release storm water from the City.

## Objective:

- Clean and regrade ditches & culverts inlets/outlets to promote proper drainage.
- Replace undersized culverts by 2036.

# Public Works Needs – Equipment/Personnel

## Equipment

- Backhoe - \$115,000
- Dump Truck - \$90,000
- Two Work Trucks - \$74,000
- PW Admin. Assistant - \$39,000
- Replace Computers - \$3,000
- Rehab of West Wastewater Treatment Plant - \$2M

## Purchases

- Three (3) Emergency Industrial Generators for Water Stations

# Public Works Needs – Equipment/Personnel

## Equipment

- Backhoe - \$115,000 (Purchased)
- Dump Truck - \$90,000 (Purchased dump trailer)
- Two Work Trucks - \$74,000 (Awaiting delivery)
- PW Admin. Assistant - \$39,000
- Replace Computers - \$3,000 (In-process)
- Rehab of West Wastewater Treatment Plant - \$2M

## Purchases

- Three (3) Emergency Industrial Generators for Water Stations

# Public Works Needs – Water/Sewer

## Projects

- East WWTP (2019) – Bond Project
- West WWTP
- Chemical, SCADA & Electric Transfer Switch Upgrades
- Rehab Well #6 Radon Treatment/Site Improvements
- Ground Storage Water Tanks Rehab/Replacement
- Sewer Line Replacement (I/I)
  
- Elevated Tank – Repaint/Rehab
- Second Elevated Tank Construction