



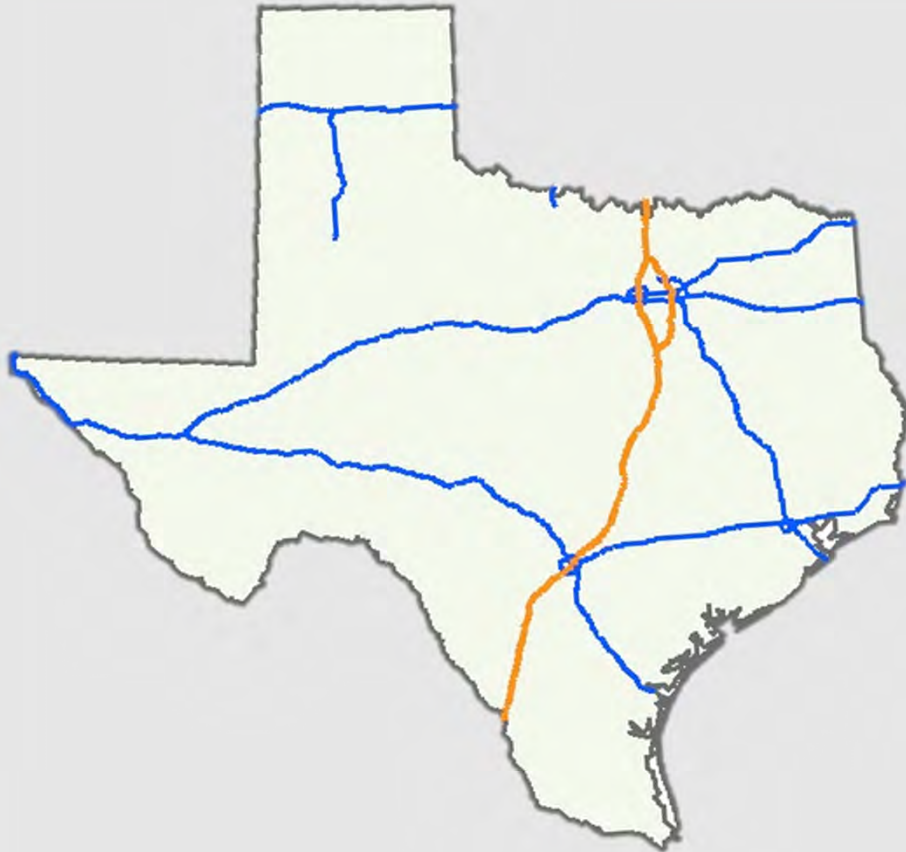
# TEXAS DEPARTMENT OF TRANSPORTATION



## I-35 EXPANSION IN CENTRAL TEXAS

Bobby Littlefield, P.E.  
District Engineer  
TxDOT Waco District

# **I-35 Expansion Project– Current Status**

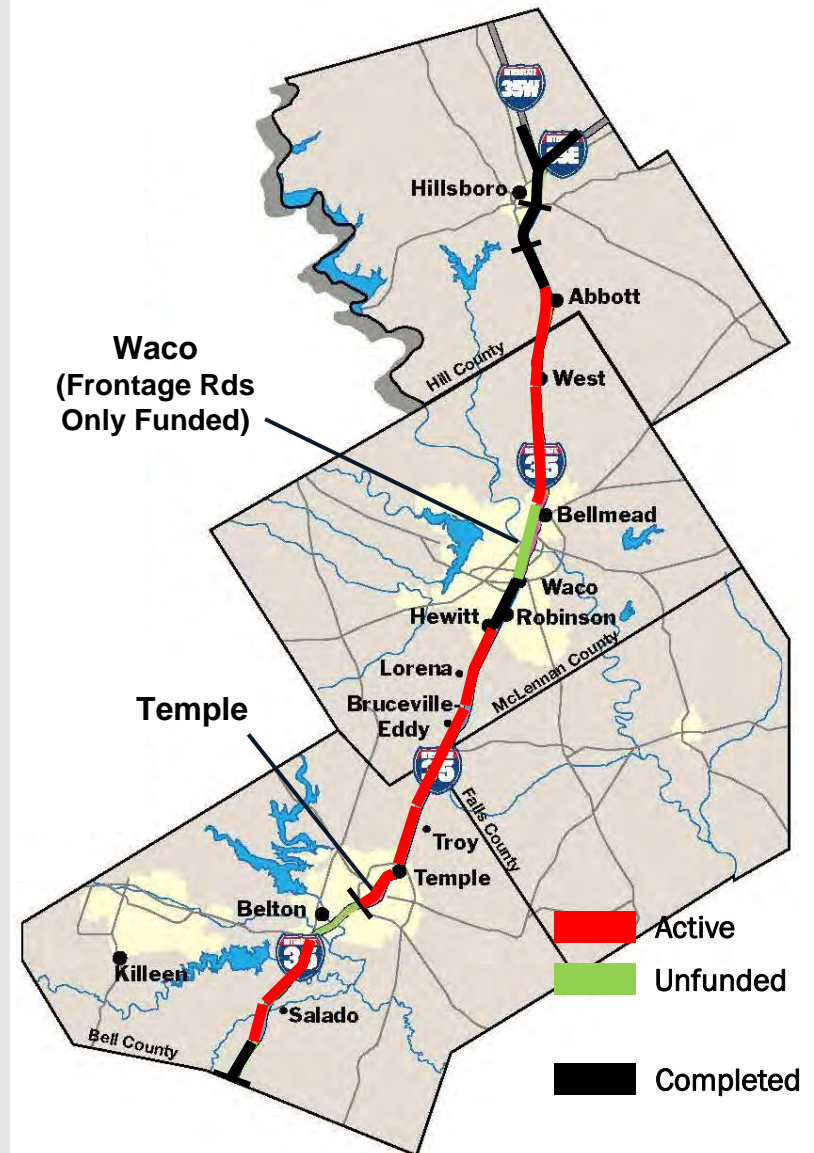


**TxDOT is committed to finishing the widening of Main Street Texas (I-35) to a minimum of six lanes, with continuous frontage roads, from San Antonio to Hillsboro.**

## I-35 Expansion Project– Current Status

# Highlights

- ✓ **Last 96 miles – Central Texas**
- ✓ **14 segments/17 projects**
- ✓ **Costs: ~\$2.0 B**
  - Construction = \$1.9B
  - Right-of-way = \$450M+
  - Utility relocation = \$110M
- ✓ **Complete late 2018**
- ✓ **Traffic Volumes**
  - 55,000 – 115,000 veh/day
  - Trucks: 25 – 35%





# Miles

## I-35 Miles Under Construction



**Peak Construction:  
2013-2014  
66 miles**

# I-35 Expansion Project– Current Status

## Measures in Place to Reduce Construction Impacts

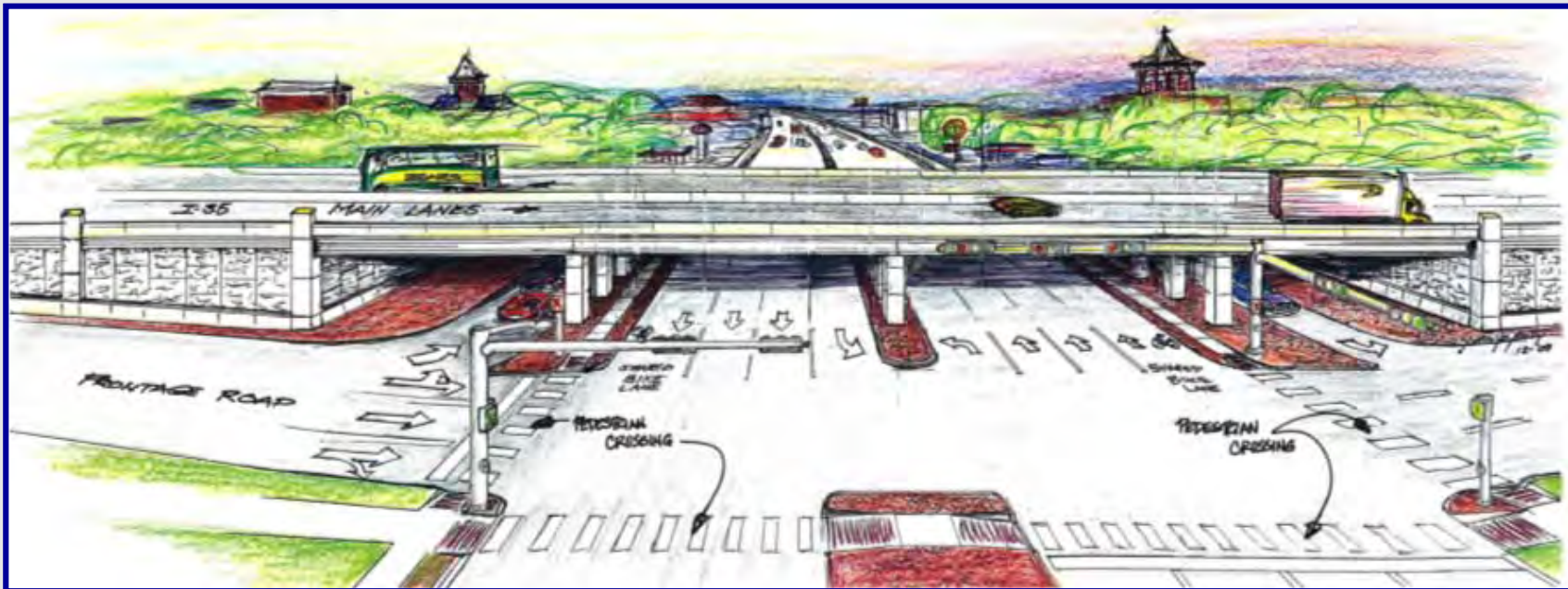
- ✓ **I-35 lane closures limited to evenings**
  - Sun 10pm – 7am
  - Mon – Fri, 7pm – 7am
- ✓ **Lane closure blackout dates**
- ✓ **Advance notifications**  
(e.g., Electronic Message Signs)
- ✓ **6-day work week**
- ✓ **Incentives for completing construction ahead of schedule**



# I-35 Expansion Project– Current Status

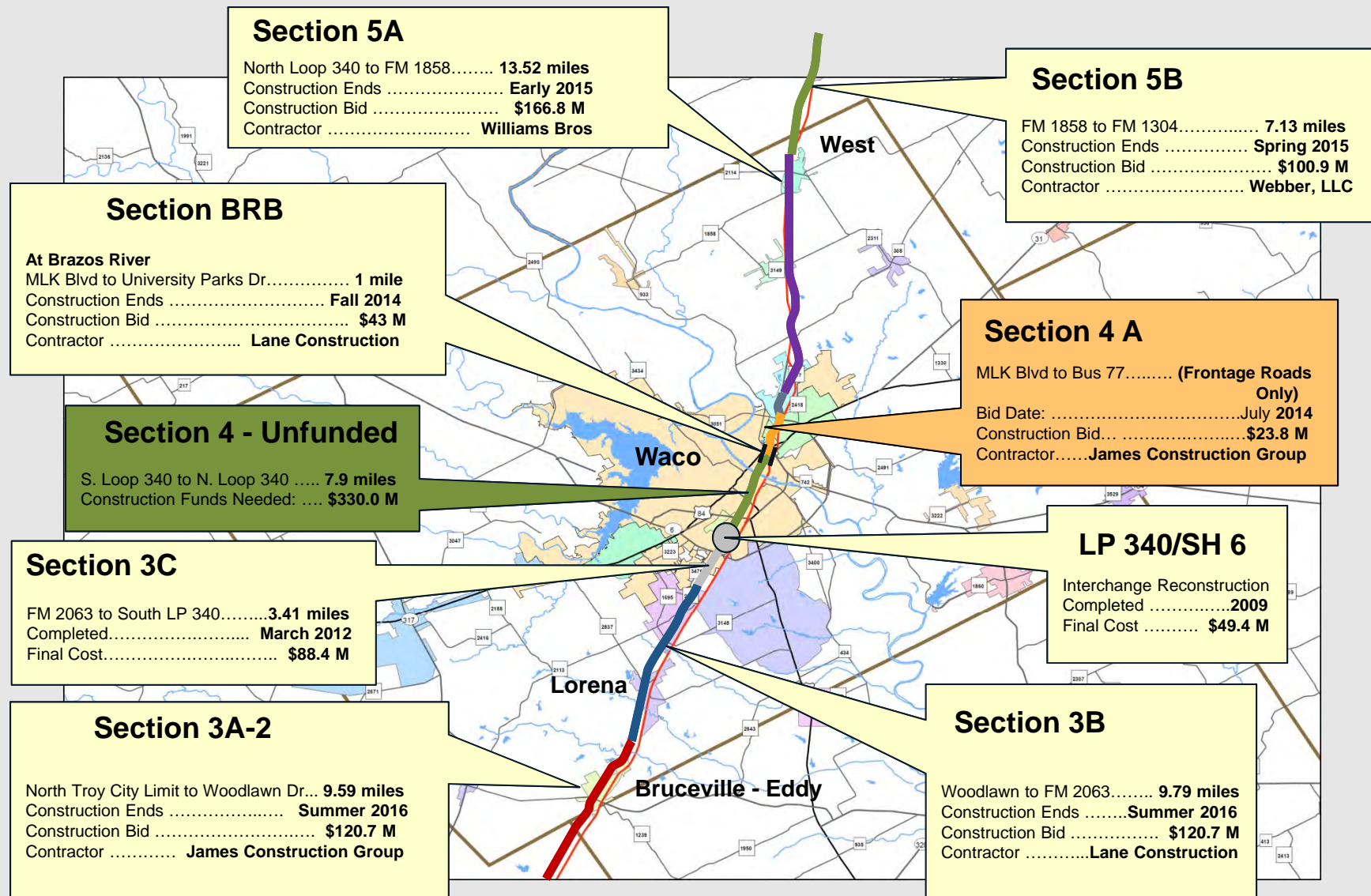
## Primary Changes

- ✓ 3 lanes in each direction on I-35
- ✓ Added I-35 crossings
- ✓ Added and relocated ramps
- ✓ 1-way continuous frontage roads
- ✓ U-turns at selected crossings
- ✓ Safety rest areas
- ✓ Intelligent Transportation System
- ✓ Truck lane restrictions
- ✓ Aesthetics
- ✓ “Green” initiatives

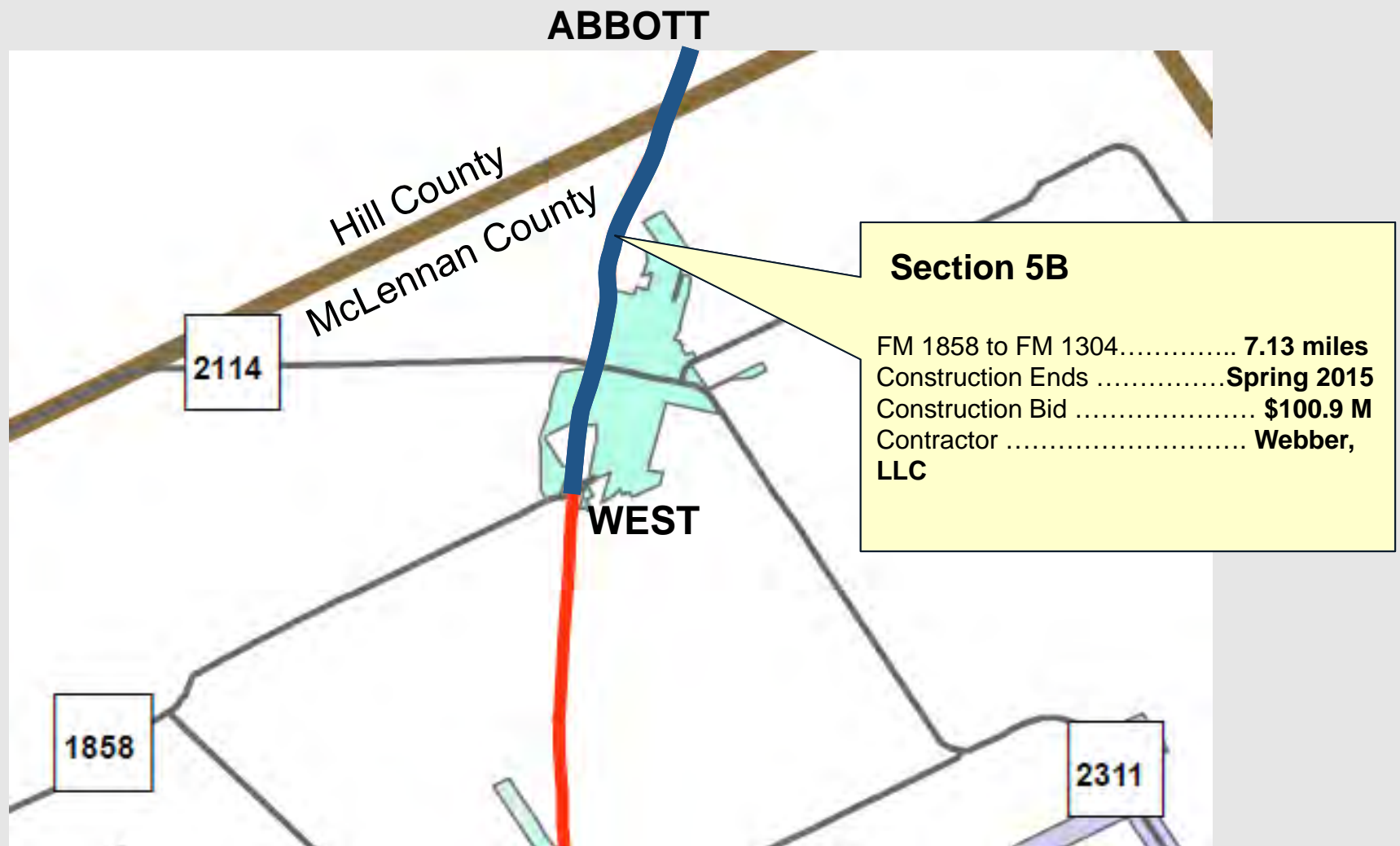




# I-35 Expansion Project– Hill & McLennan Counties

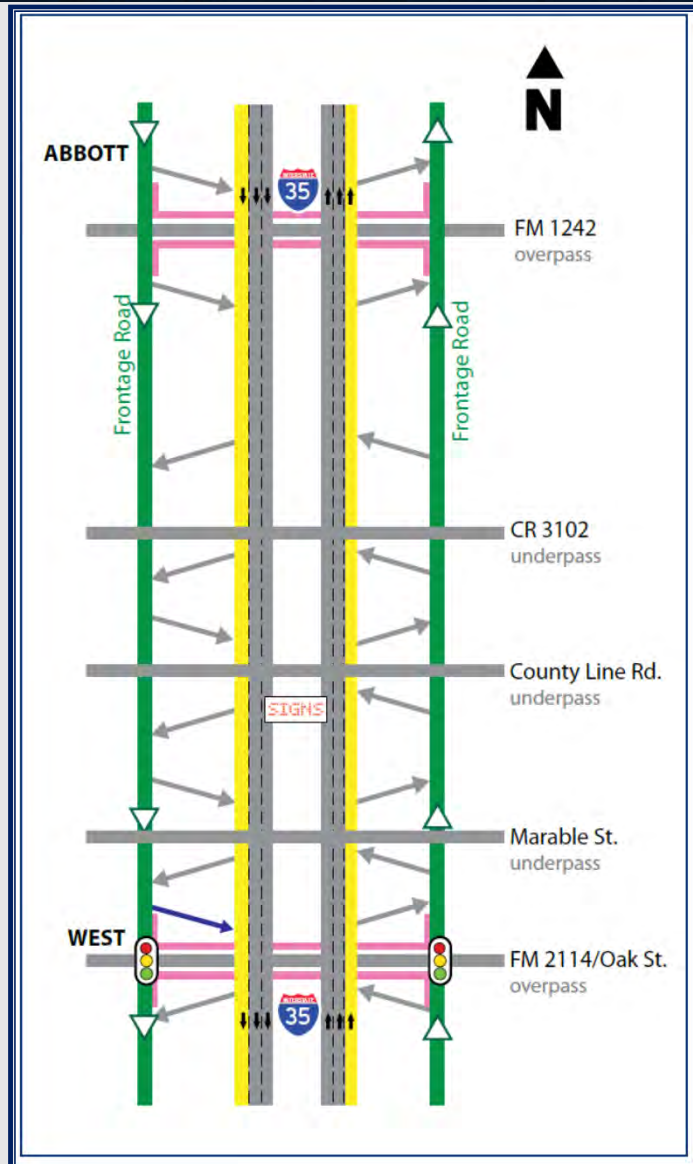


## 5B – Abbott to West





## 5B Abbott to West



### SECTION ENHANCEMENTS



Expansion from 2 to 3 lanes in each direction



Converted to one-way frontage roads to improve safety



Upgraded on-/off-ramps



Addition of a southbound entrance



U-turns added

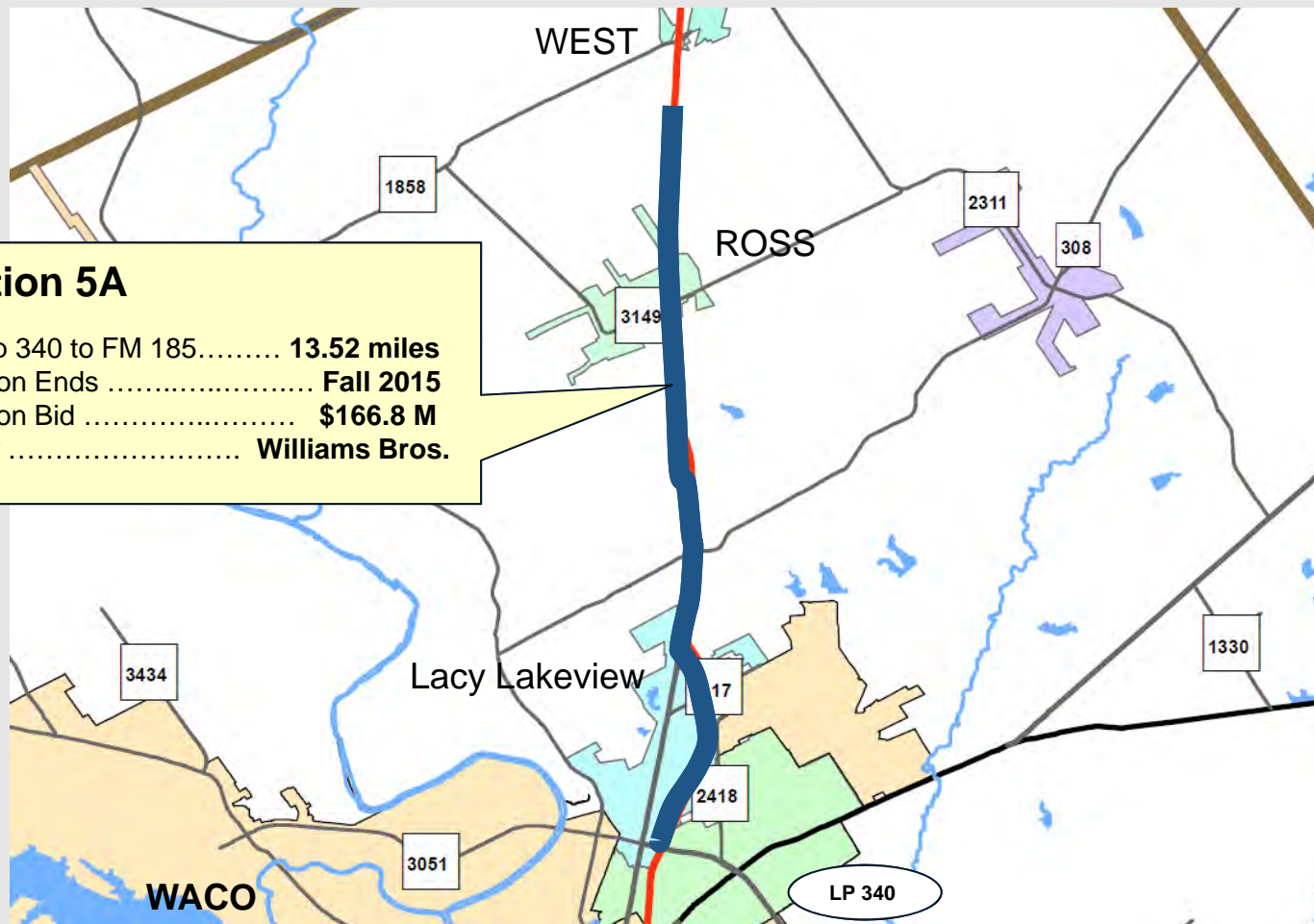


New traffic signal

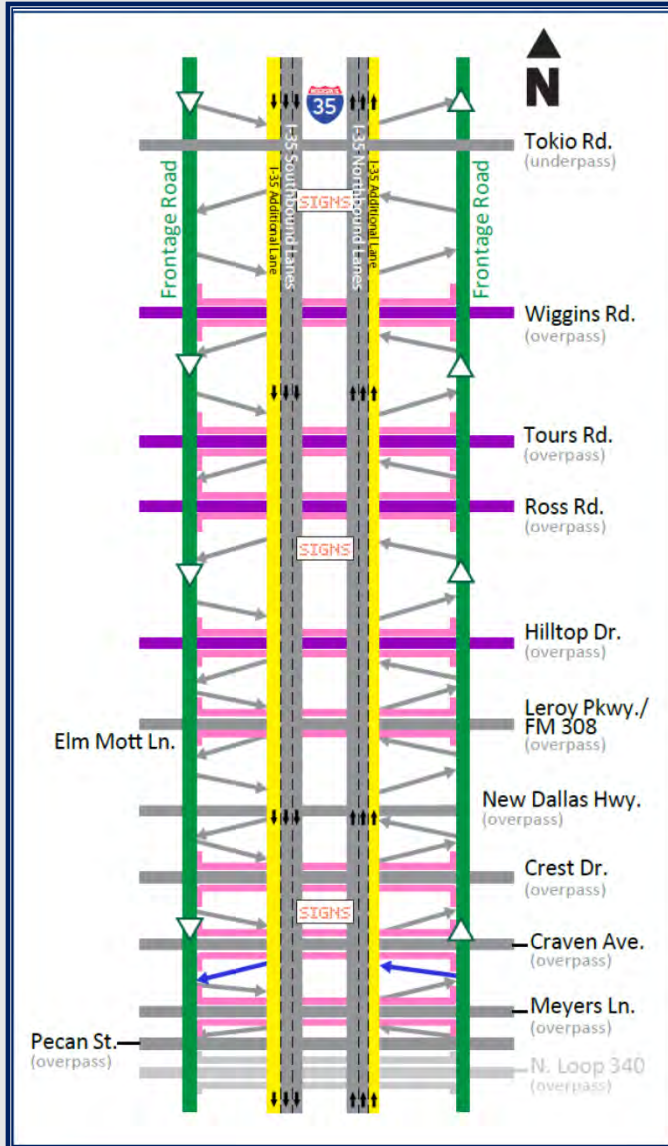


Two new electronic message signs

# 5A – West to Waco



# 5A West to Waco



## SECTION ENHANCEMENTS

-  Expansion from 2 to 3 lanes in each direction
-  Converted to one-way frontage roads to improve safety
-  Upgraded on-/off-ramps
-  New on/off-ramps
-  U-turns added
-  Six new electronic message signs
-  TxDOT is converting this from an underpass to an overpass



# 4 – Waco

## Section BRB

At Brazos River

MLK Blvd to University Parks Dr

Construction Ends ..... **Fall 2014**

Construction Bid ..... **\$40 M**

Contractor ..... **Lane Construction**

## Section 4 - Unfunded

S. Loop 340 to N. Loop 340..... **7.9 miles**

Construction Funds Needed: **\$330.0 M**

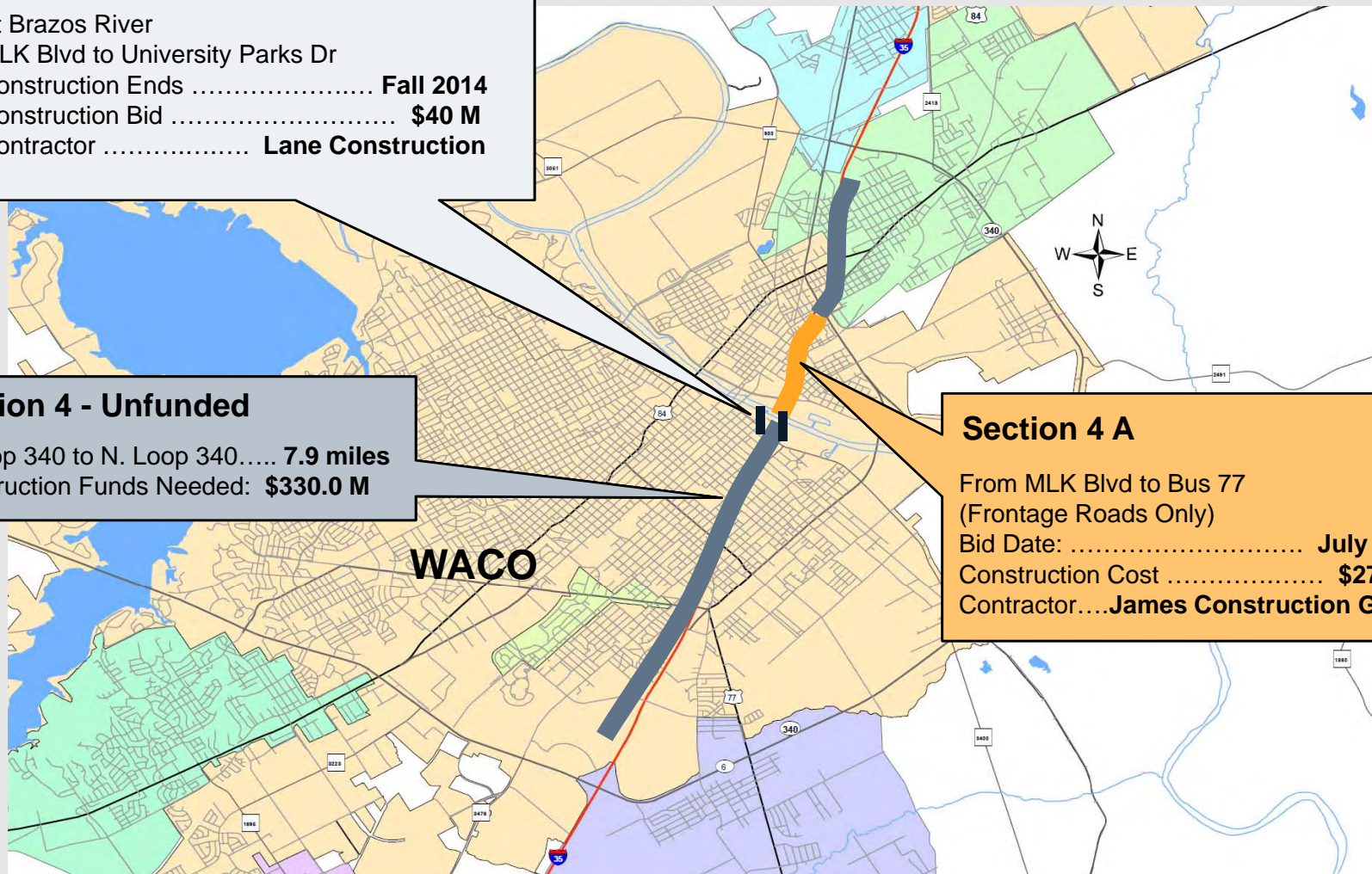
## Section 4 A

From MLK Blvd to Bus 77  
(Frontage Roads Only)

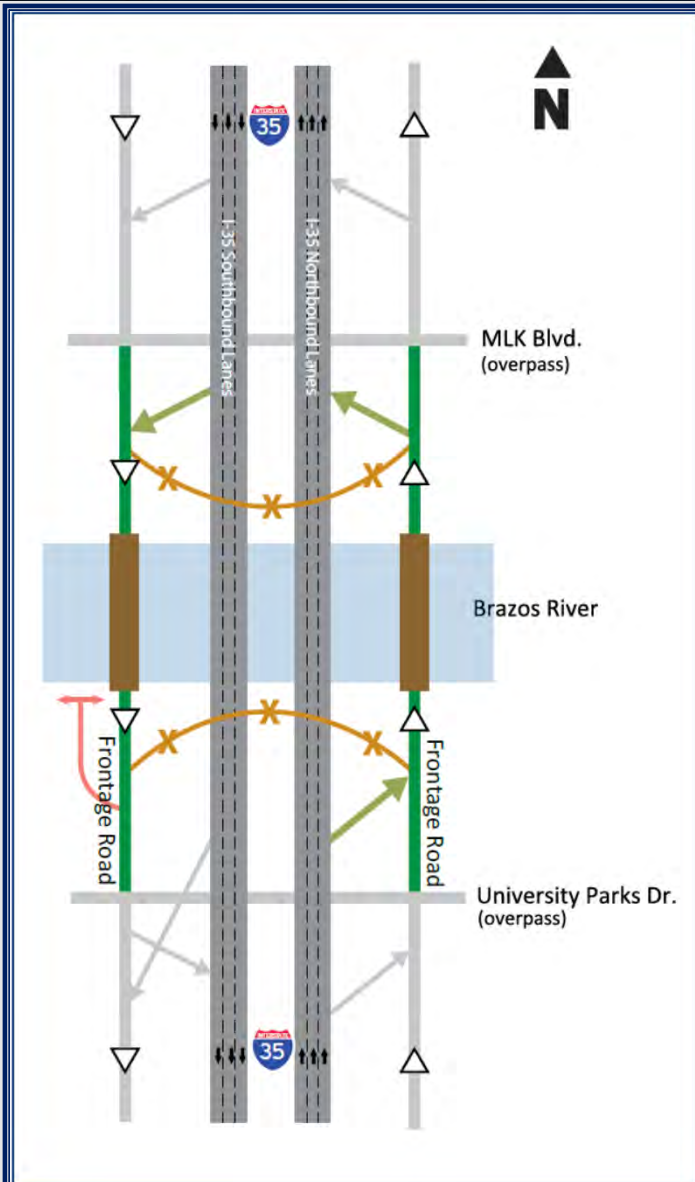
Bid Date: ..... **July 2013**

Construction Cost ..... **\$27.0 M**

Contractor....**James Construction Group**








## 4- Waco



## Brazos River Bridges

### SECTION ENHANCEMENTS

-  New continuous one-way frontage roads over river
-  New frontage road bridges over Brazos River
-  Reconfigured on and off ramps
-  Remove turnarounds
-  Pedestrian access to river



## 4 – Waco/Brazos River Bridges

### Brazos River Bridges





## 4 – Waco/Brazos River Bridges

### Lighting: Brazos River Bridges



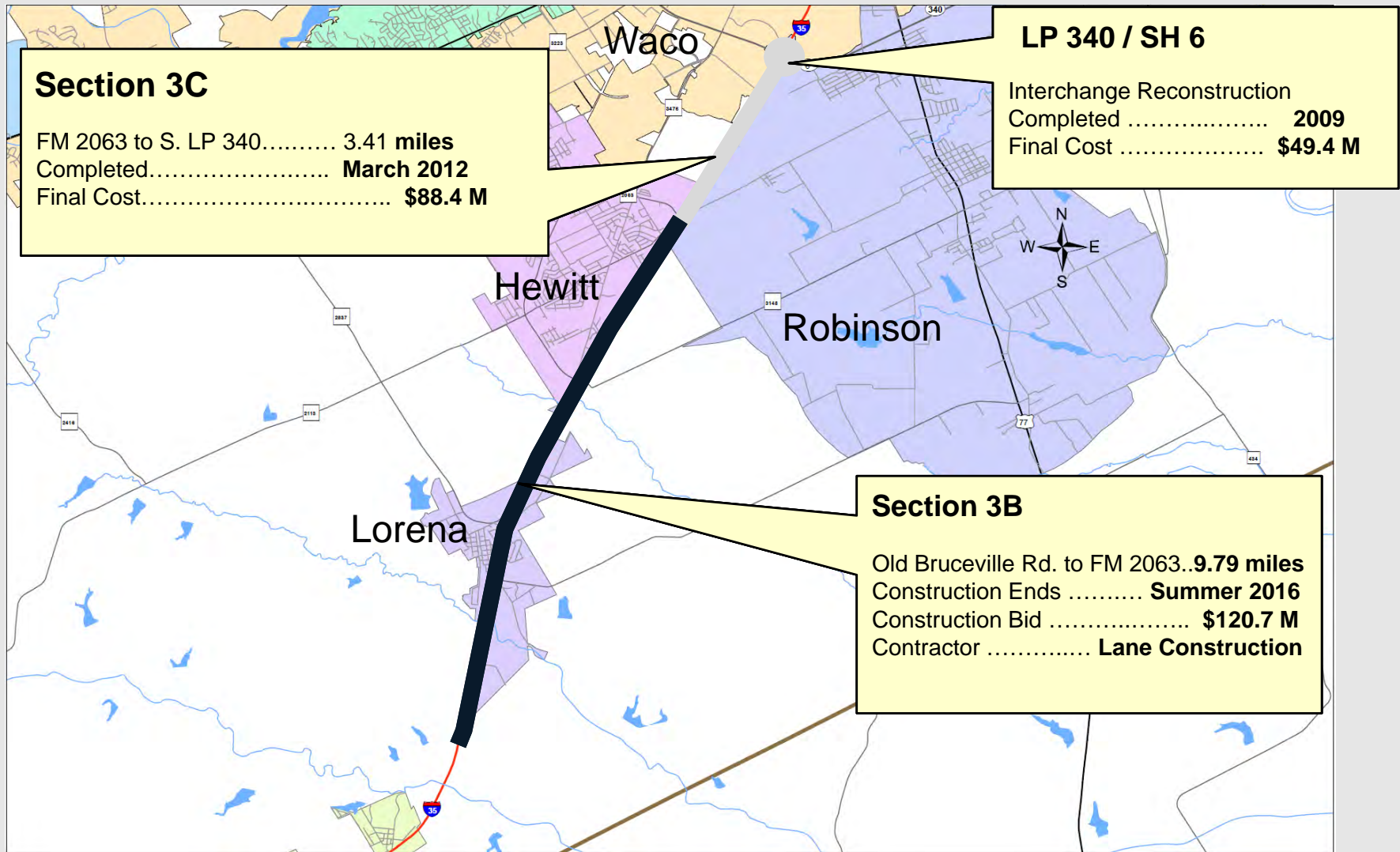
15

## 4 – Waco/Brazos River Bridges



**Game Day - August 31, 2014**

## 3C – Hewitt/Robinson to Waco





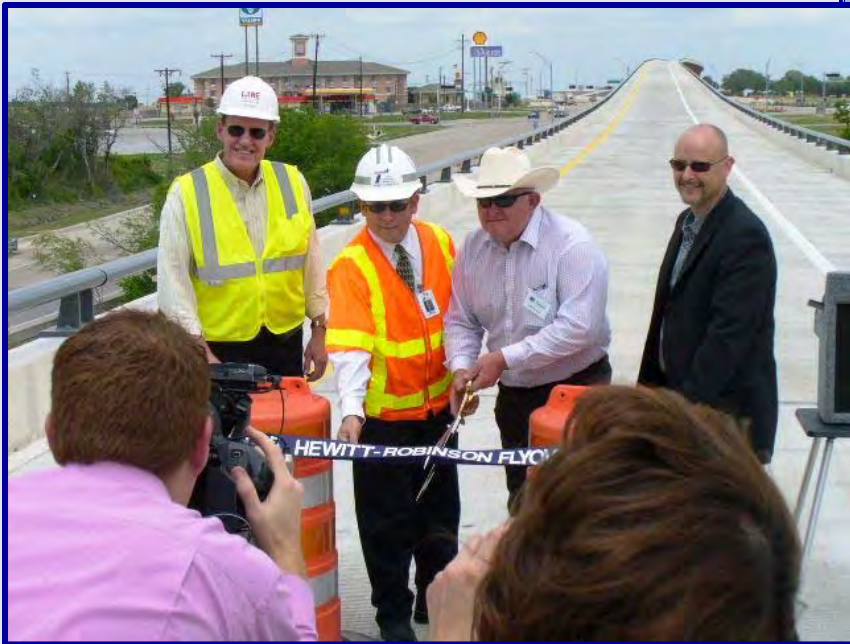
## 3C – Hewitt/Robinson to Waco



**Fly-Overs**  
**I-35 at LP 340 / SH 6**

## 3C – Hewitt/Robinson to Waco

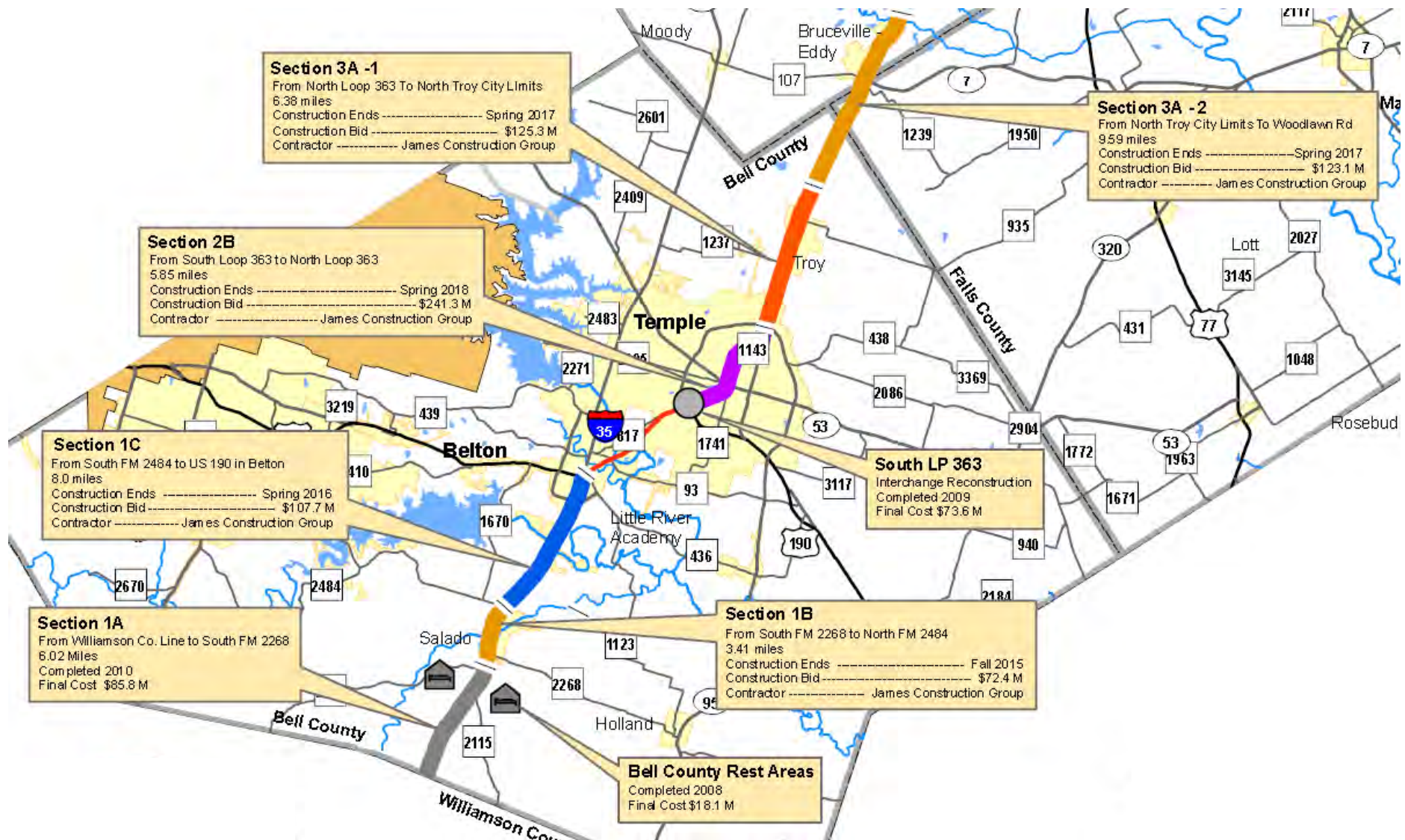
### Completed Construction



**Flyover: I-35 from FM 2113/Spring Valley to NB I-35**

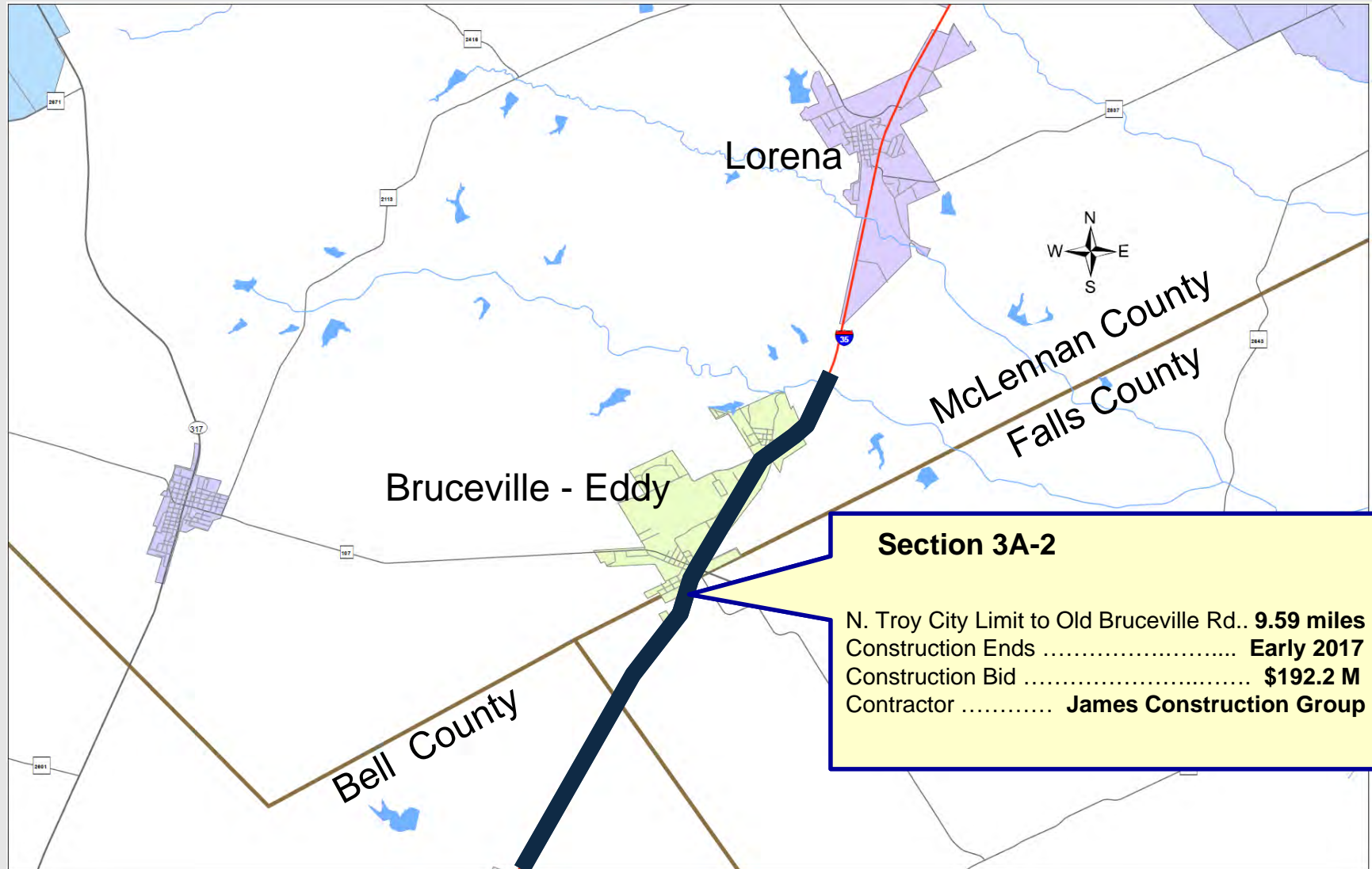


# I-35 Expansion Project– Bell County

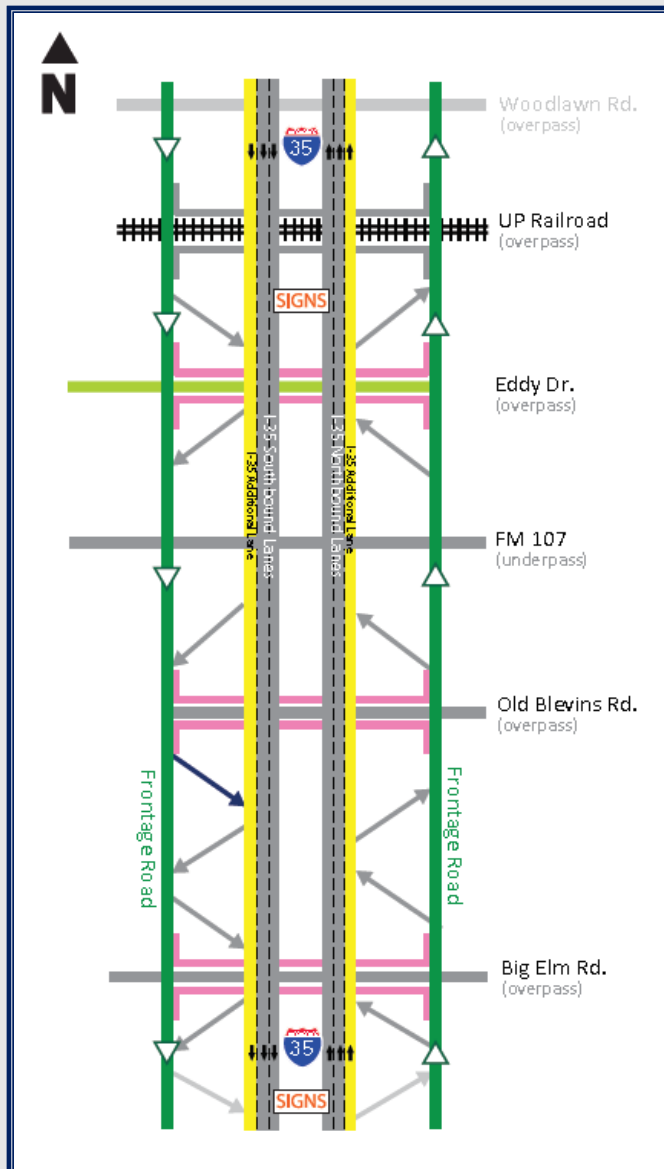











## 3A-2 – Troy to Bruceville-Eddy



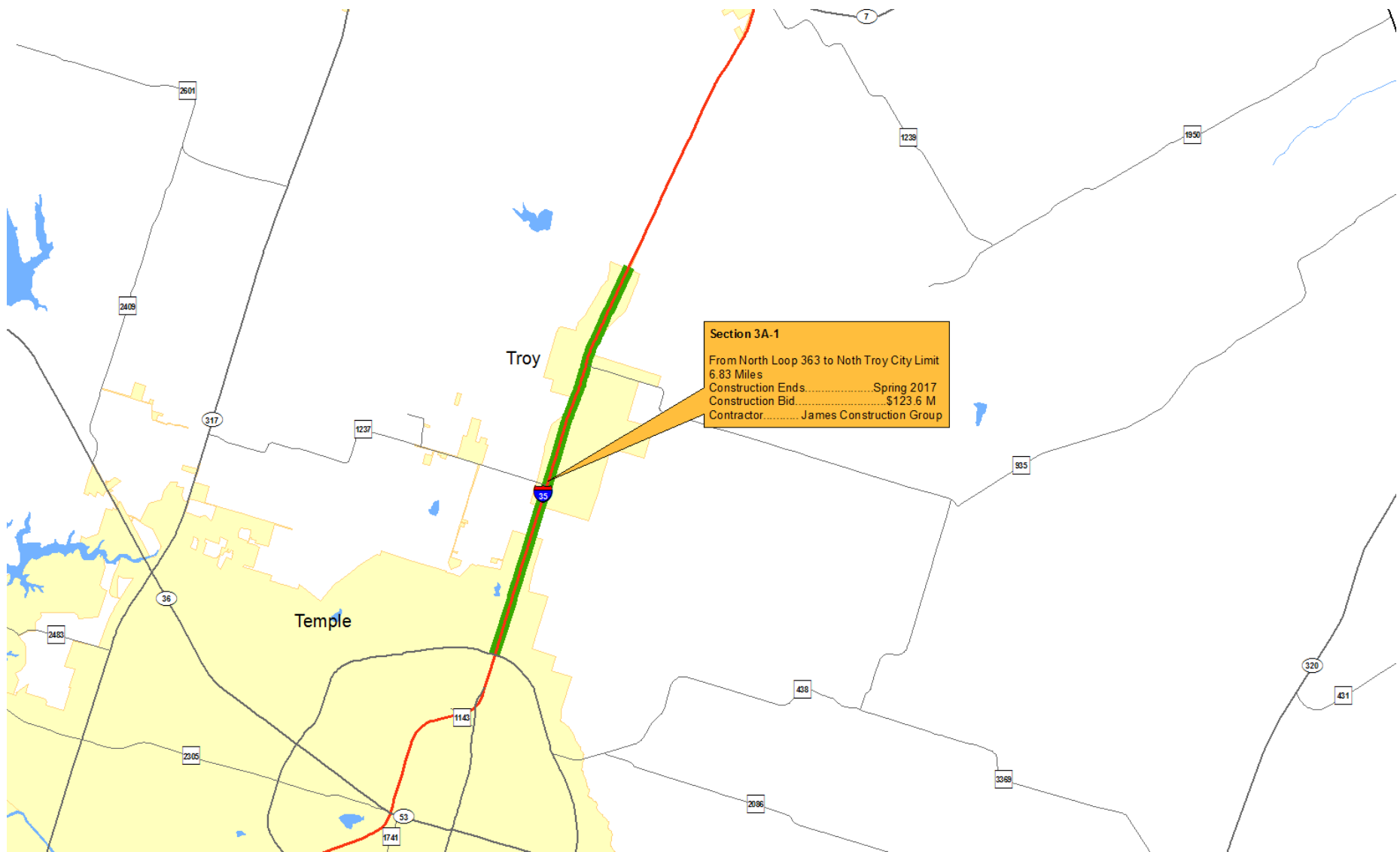
## 3A-2 Troy to Bruceville-Eddy



### SECTION ENHANCEMENTS

-  Expansion from 2 to 3 lanes in each direction
-  Converted to one-way frontage roads to improve safety
-  Upgraded on-/off-ramps
-  New crossover
-  U-turns added
-  Four new electronic message signs
-  Addition of a southbound entrance

# 3A-1 – Temple to Troy





# Construction Progress



**Retaining wall**



**Underpass Columns**

# Progress

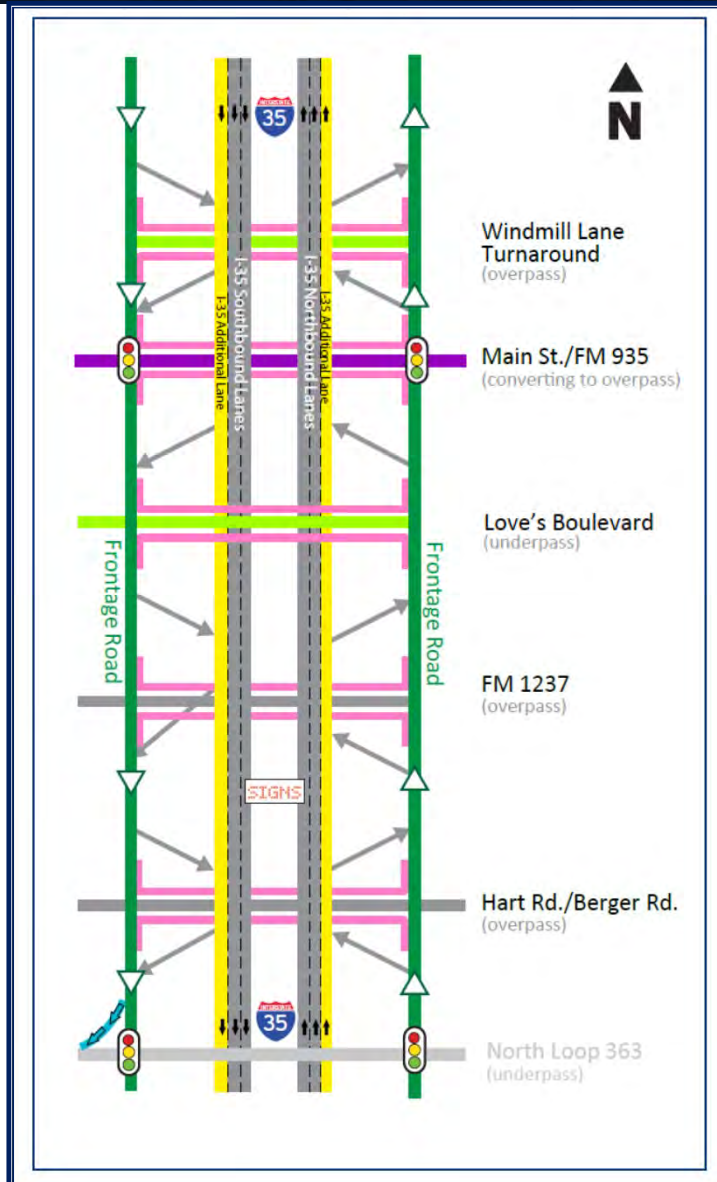


## New Access Rd. Bridges






# 3A-1 – Temple to Troy

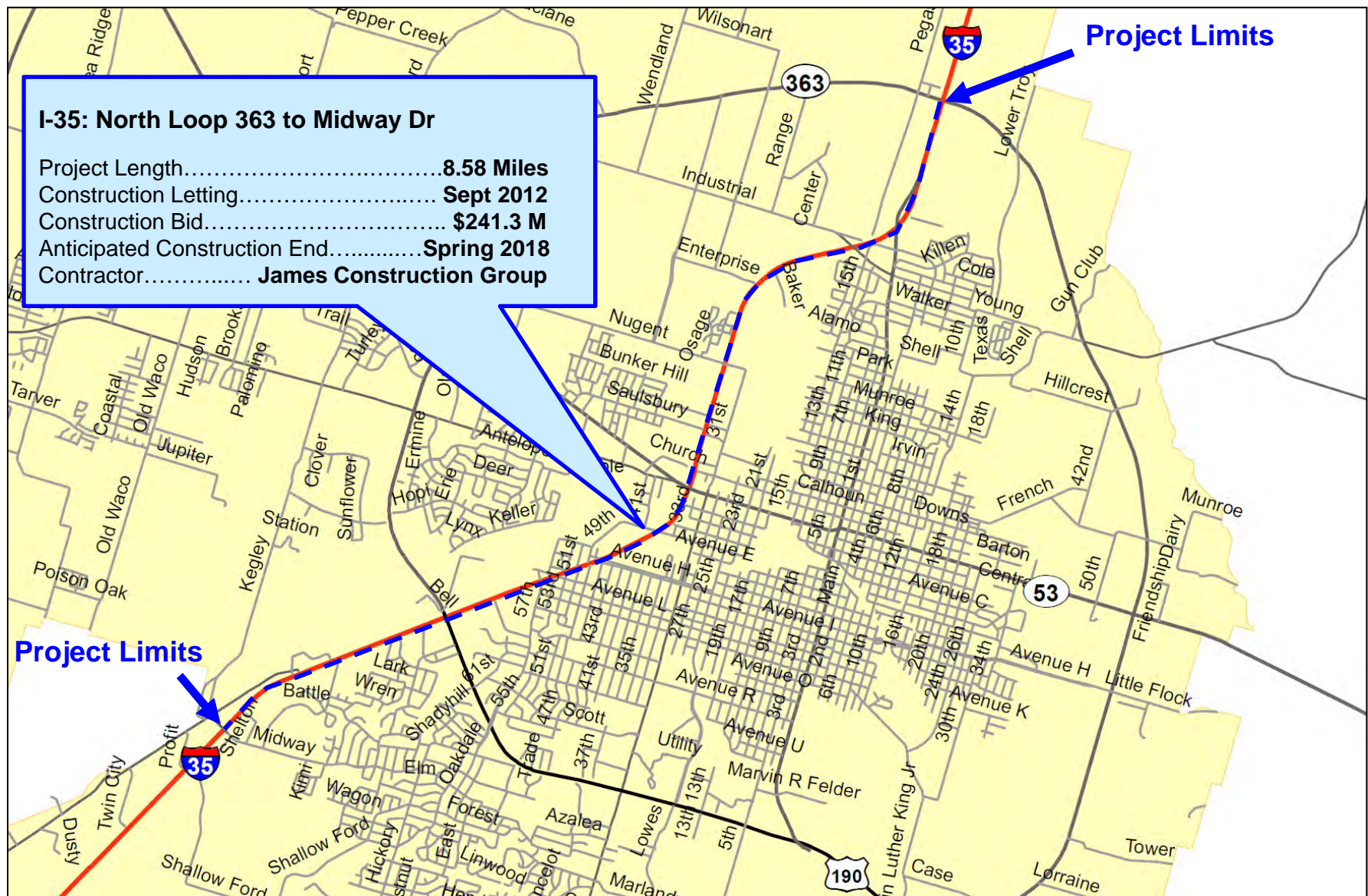


## SECTION ENHANCEMENTS

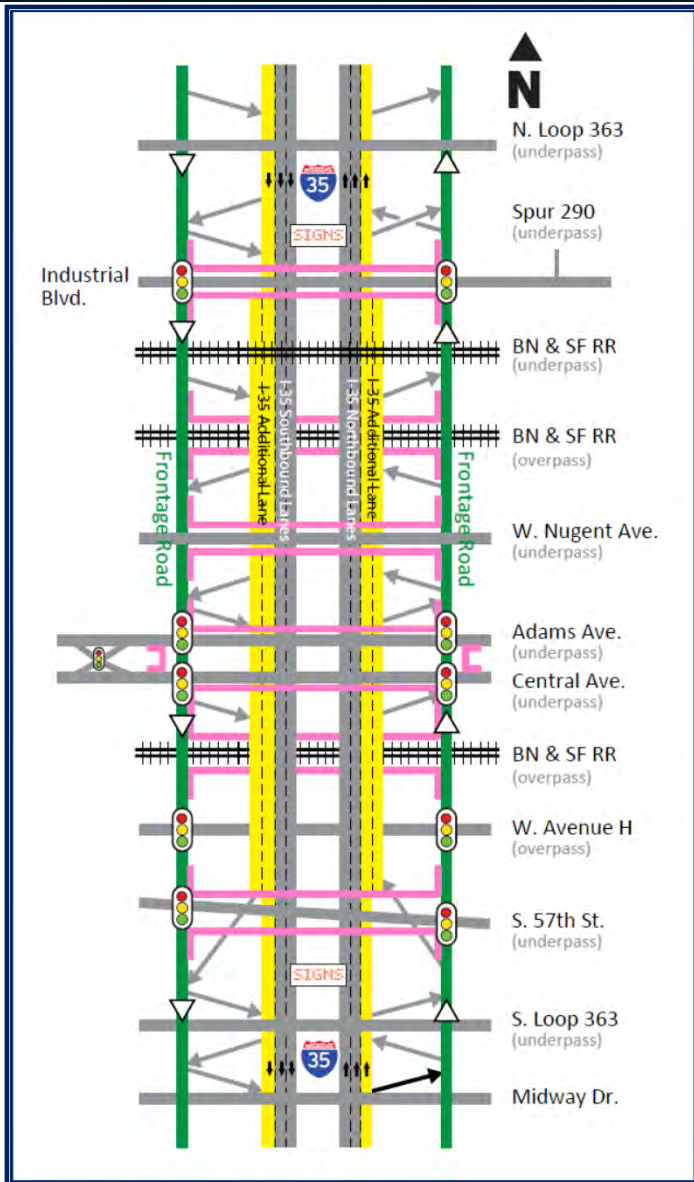
-  Expansion from 2 to 3 lanes in each direction
-  Converted to one-way frontage roads to improve safety
-  Upgraded on-/off-ramps
-  New direct connector
-  New crossovers
-  U-turns added
-  New traffic signals
-  Two new electronic message signs
-  TxDOT is converting Main St./FM935 from an underpass to an overpass




## 2B – Temple



## 2B -- Temple



### SECTION ENHANCEMENTS


 Expansion from 2 to 3 or 4 lanes in each direction

 Upgraded on-/off-ramps

 U-turns added

 Traffic Signal

 Existing on-/off-ramp

 New electronic message signs



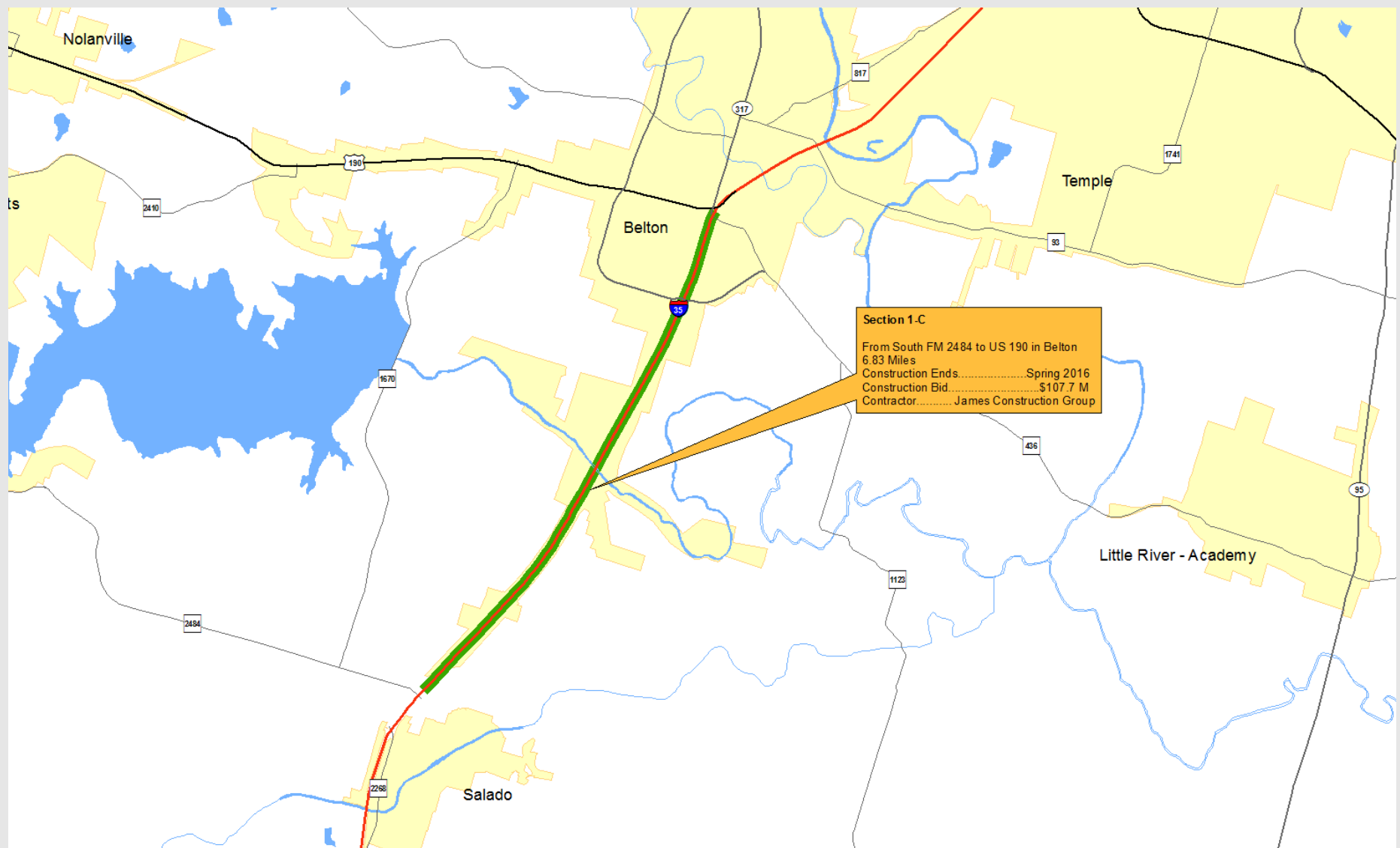
## 2B -- Temple

**Broke Ground May 9, 2013**





# 1C -- Belton



## 1C -- Belton

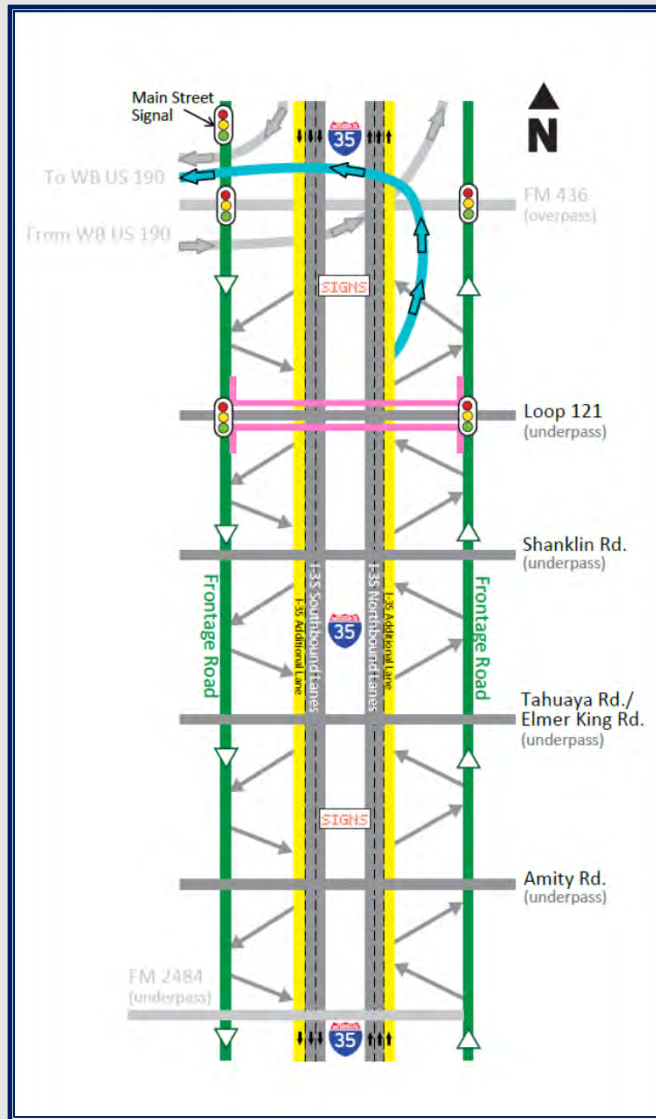


**New Northbound  
Mainlanes at  
Loop 121**

**New Belton Flyover:  
Northbound I-35 to  
West US 190**



# 1C -- Salado to Belton

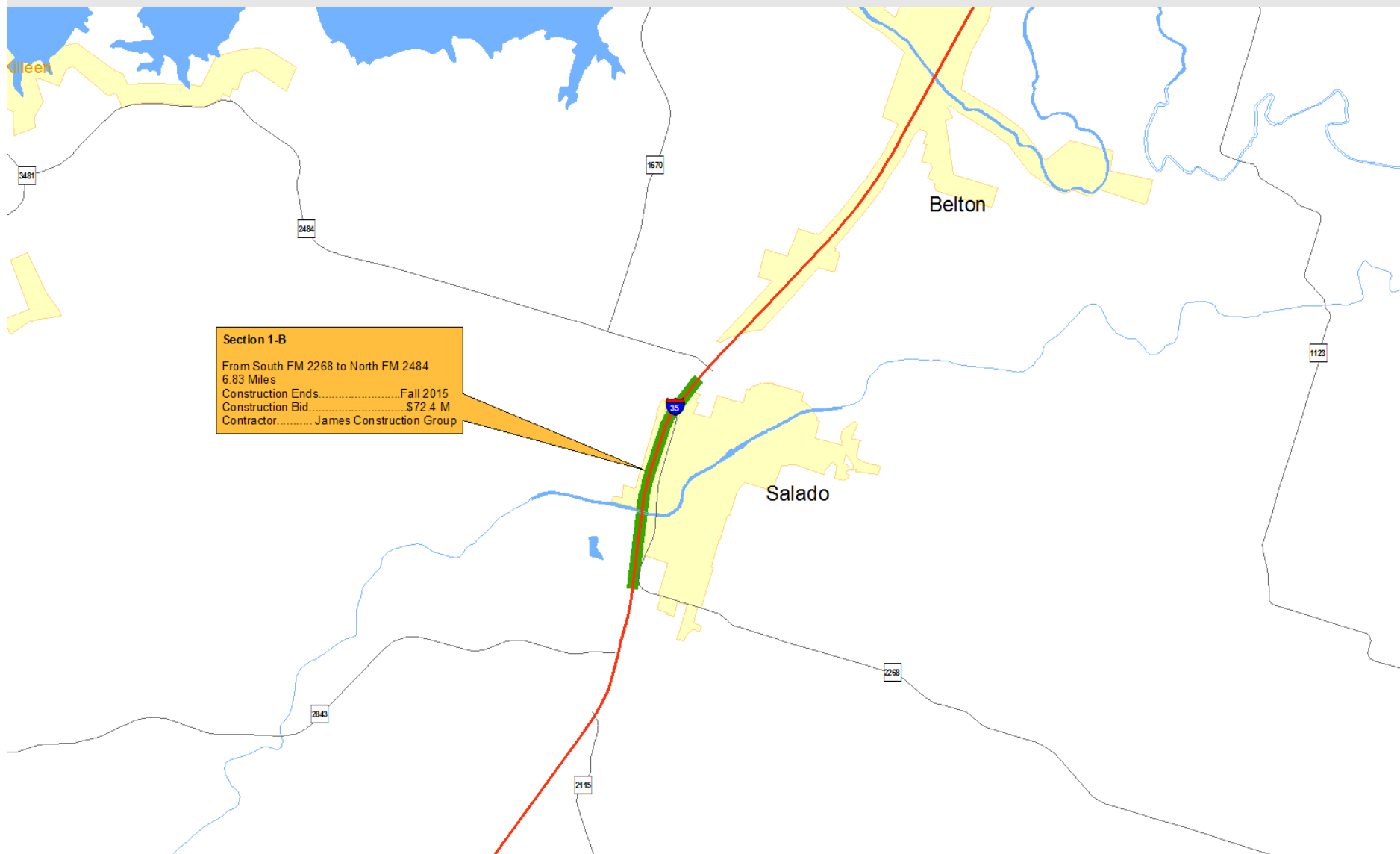


## SECTION ENHANCEMENTS

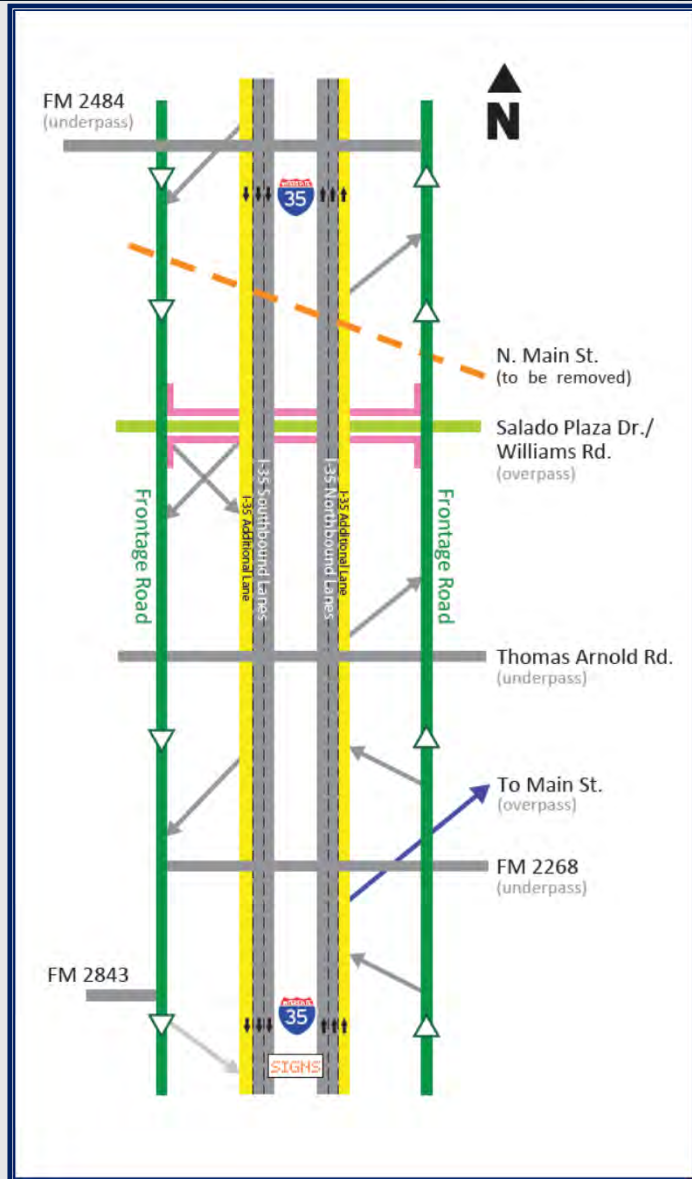
-  Expansion from 2 to 3 lanes in each direction
-  Converted to one-way frontage roads to improve safety
-  Upgraded on-/off-ramps
-  New direct connector ramp
-  U-turns added
-  New traffic signals
-  Six new electronic message signs



# 1B -- Salado



# 1B -- Salado



## SECTION ENHANCEMENTS

-  Expansion from 2 to 3 lanes in each direction
-  Converting to one-way frontage roads to improve safety
-  Upgraded on-/off-ramps
-  New off-ramp
-  Removal of existing overpass
-  Addition of a new overpass
-  U-turns added
-  Two new electronic message signs

# 1B -- Salado

New  
Bridges  
over  
Salado  
Creek



New Direct  
Connect –  
Northbound I-35 to  
S. Main St.



# Overall Material Quantities

<b>Projects:</b>	<b>Total SY of Concrete Pavement</b>	<b>Total Tons of New Asphalt Pavement</b>	<b>Linear Feet of Concrete Traffic Barrier</b>	<b># Bridges</b>	<b># Bridge Class Culverts</b>	<b># Lane Miles</b>
1B Salado	404,802.00	31,632.00	17,097	10	2	33
1C Belton	594,444.00	172,663.00	35,909	8	4	67
2B Temple	907,771.75	223,087.56	28,932	22	2	45
3A-1 Troy	592,844.00	118,094.00	28,529	14	28	33
3A-2 Bruceville-Eddy	669,677.00	139,322.61	39,833	20	N/A	48
3B Lorena/Brazos River Bridges	1,092,185.00	177,819.00	50,593	21	N/A	59
5A Elm Mott	1,199,498.00	253,163.77	53,056	14	10	81
5B West to Abbott	732,071.00	141,653.00	37,312	12	4	43
<b>Totals:</b>	<b>6,193,292.75</b>	<b>1,257,434.94</b>	<b>291,261.00</b>	<b>121</b>	<b>50</b>	<b>409</b>

# Green Initiatives

## ✓ **Air Quality**

- Night-time lane closures ↓ delays and ↓ emissions
- Warm-mix asphalt technologies to ↓ fuel use and ↑ air quality

## ✓ **Storm Water Pollution Prevention**

- Environmental Mgmt. System (e.g. Const. Stage Gate Inspections)
- Wetland preservation

## ✓ **Habitat Protection**

- Salado Salamander
- Cliff and Barn swallows' nests under bridges
- Man-made bat houses (Salado Creek, Lampasas River)



bat houses

## “Green” Initiatives

### ✓ Recycling

- Roadway base material, concrete
- Reclaimed asphalt pavement (RAP)
- Recycled asphalt shingles (RAS)
- Rubber for crash and guardrail systems
- Metal for signs, bridge girders, sign posts

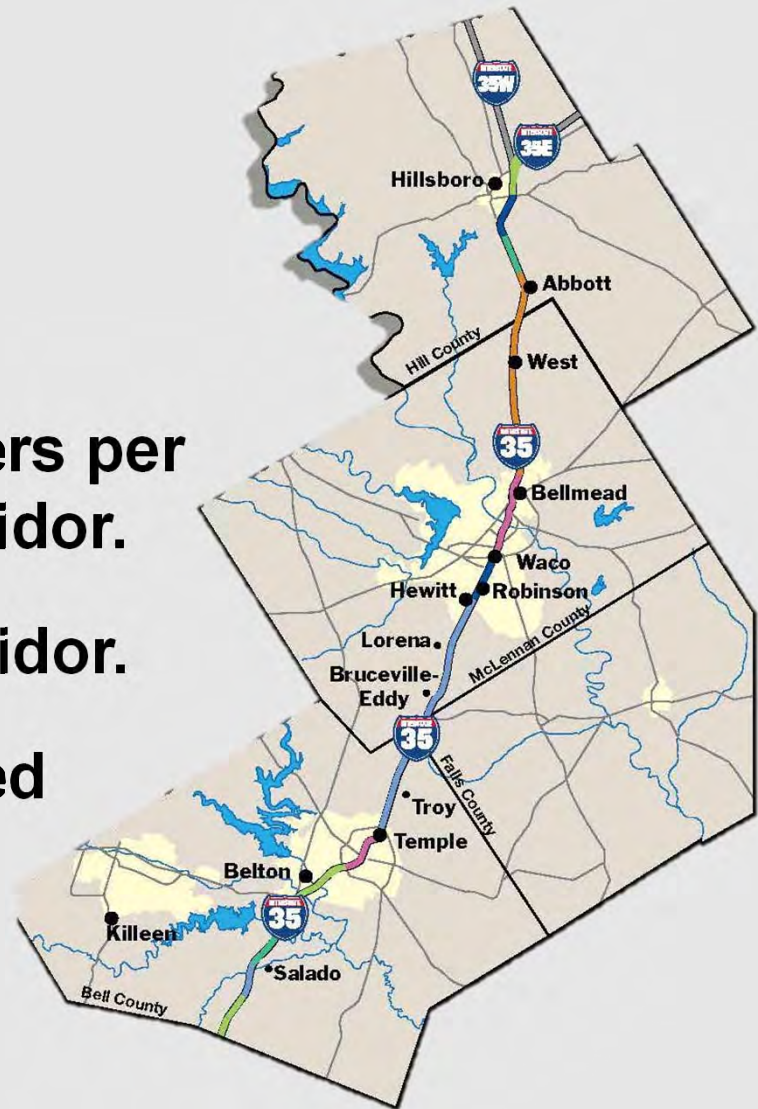
### ✓ Sustainable Practices

- Compost to reestablish vegetation ↓ fertilizer
- Solar panels to power irrigation systems + warning beacons
- Xeriscape landscaping focused on native plants ↓ irrigation



## The Communications Challenge

- ✓ More than 30 million travelers per year pass through this corridor.
- ✓ ~2/3 travel through the corridor.
- ✓ 1,000 businesses are located on these 96 miles.



# Communications

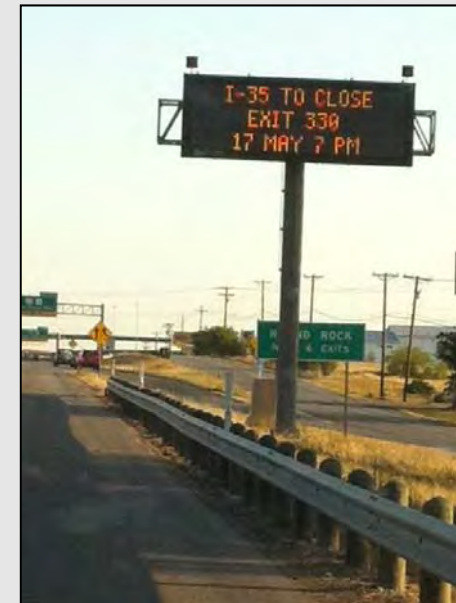
## Outreach

- ✓ No surprises!
- ✓ Business & community meetings
- ✓ [www.My35.org](http://www.My35.org)
- ✓ I-35 newsletter
- ✓ Lane closure notifications
- ✓ Dedicated project staff
  - Public Information Officer
  - TTI Mobility Coordinators
  - TxDOT construction staff



# Communications

- ✓ Advance lane closure notifications
  - Roadside message boards days in advance
  - Coordination between Districts
- ✓ Real-time travel conditions
- ✓ Incident alerts  
(As TxDOT is notified)

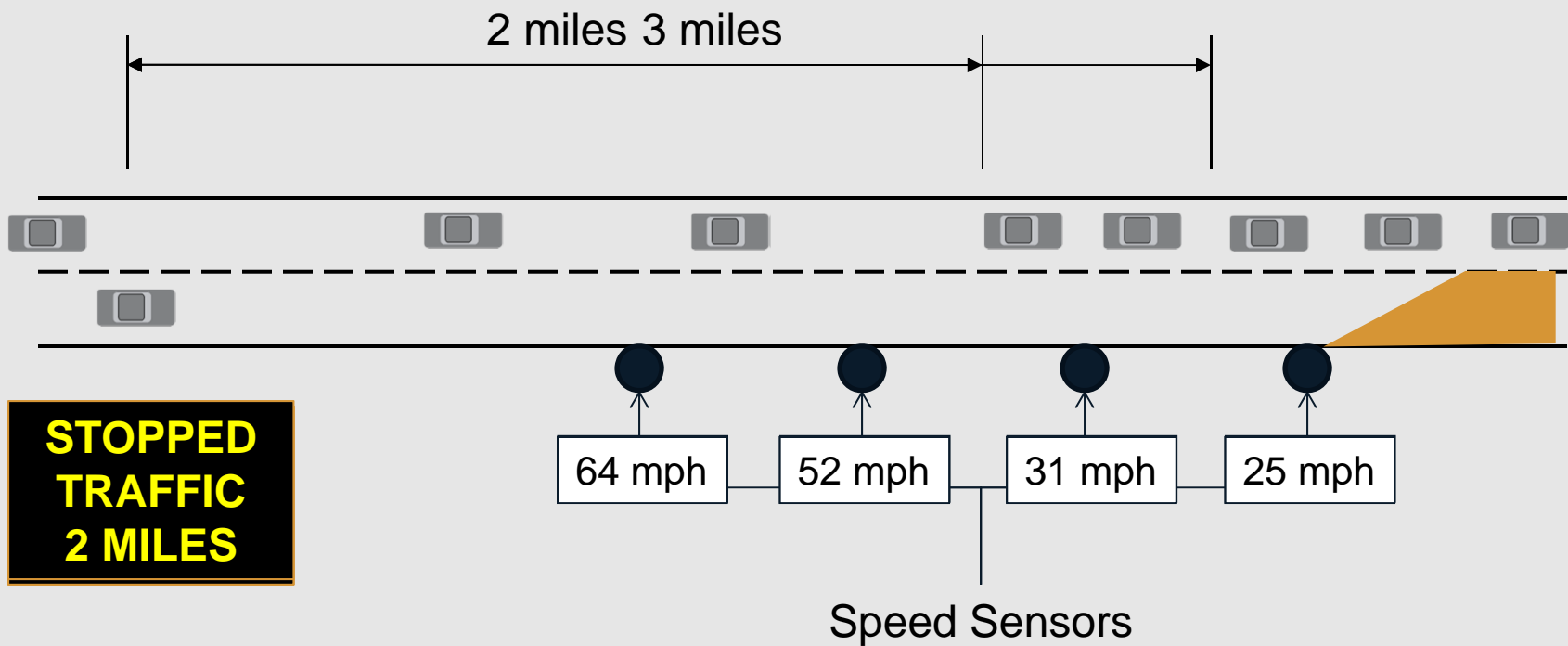


*Sign in Austin District  
Closure 80 miles away in Waco!*



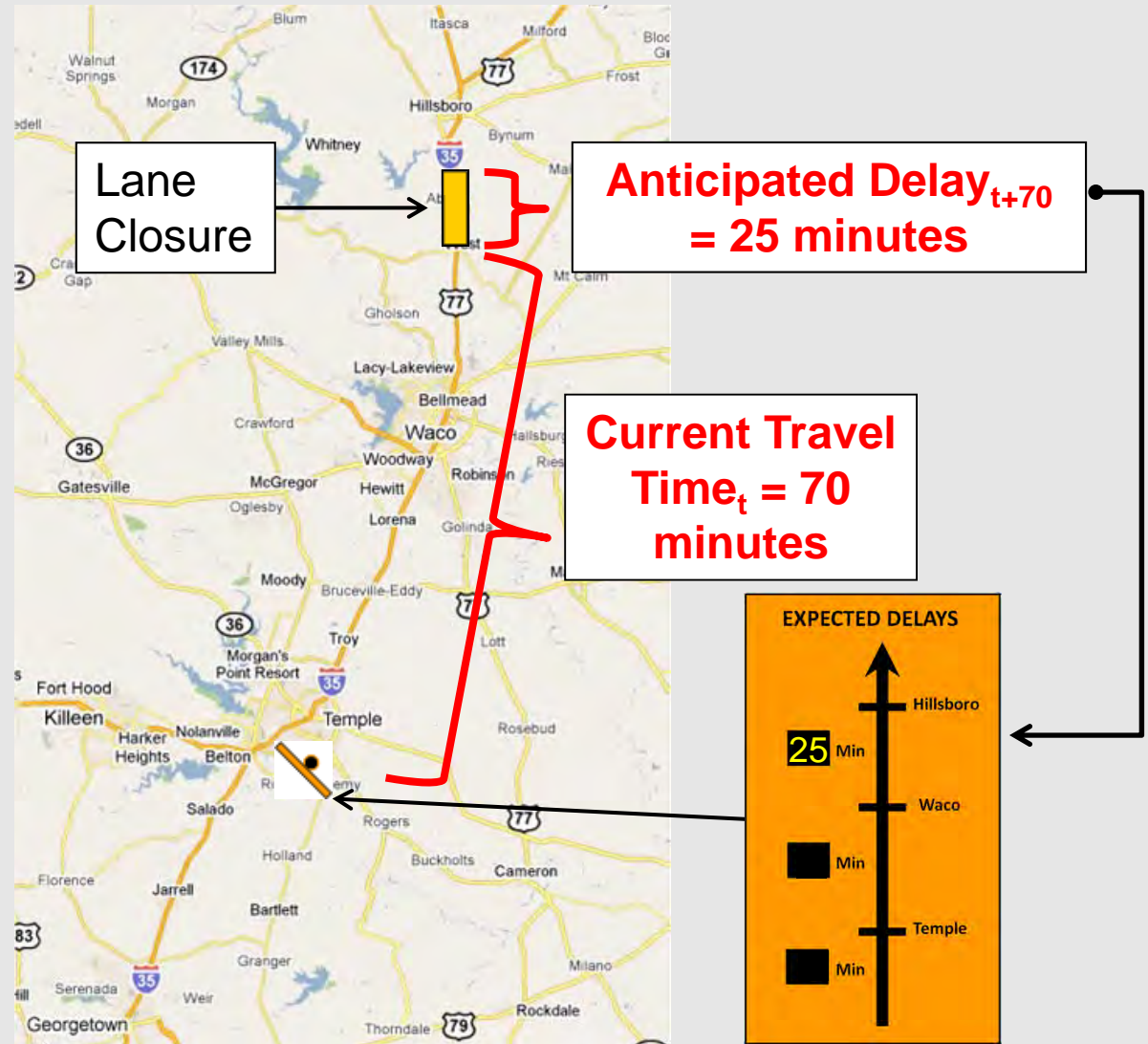
# I-35 Work Zone Innovations

## Smart Work Zone

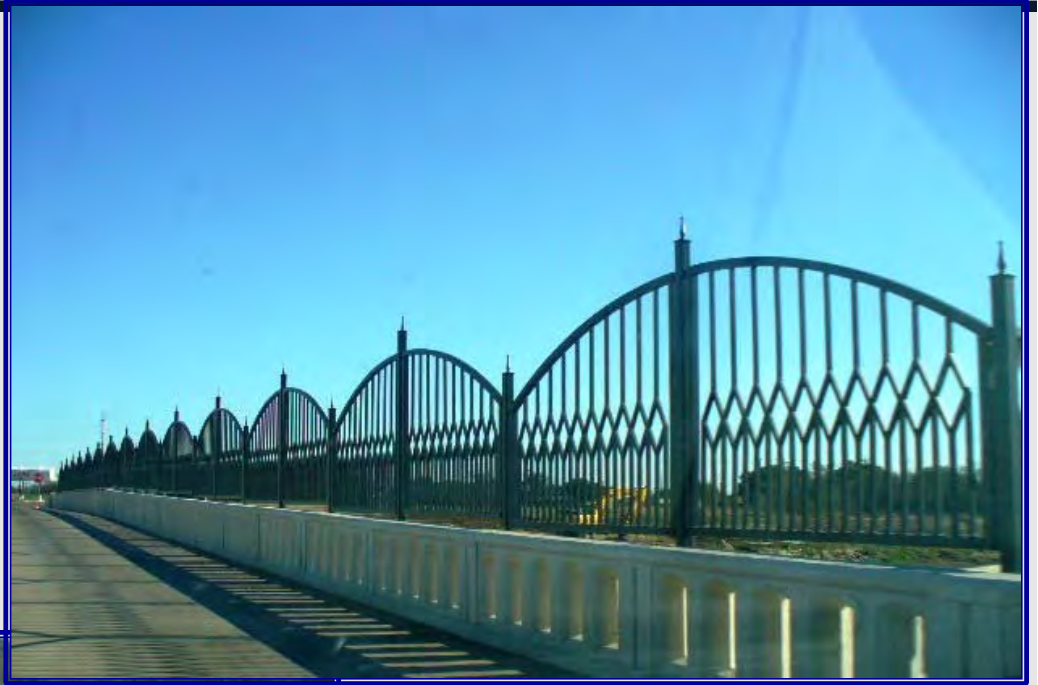


# I-35 Work Zone Innovations

## Coming: Construction Traffic Delay Forecasts



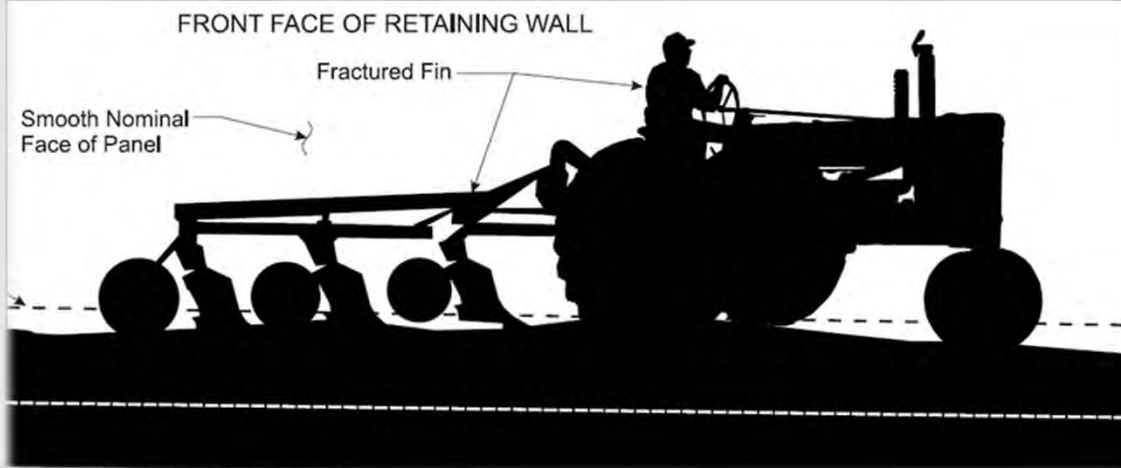
# Community Input Aesthetics



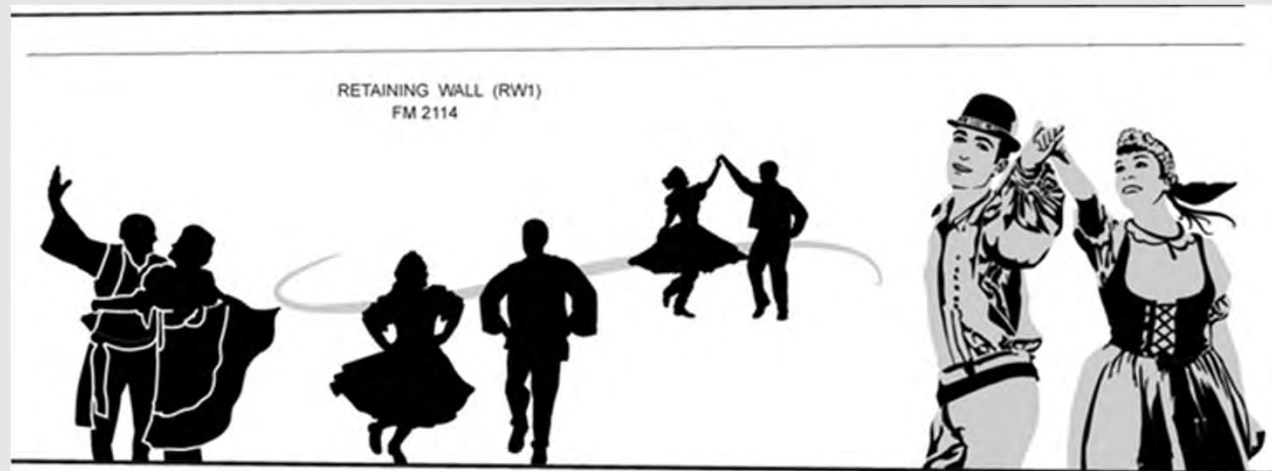
**Lorena**



# Murals



**Abbott**



**West**

# Murals



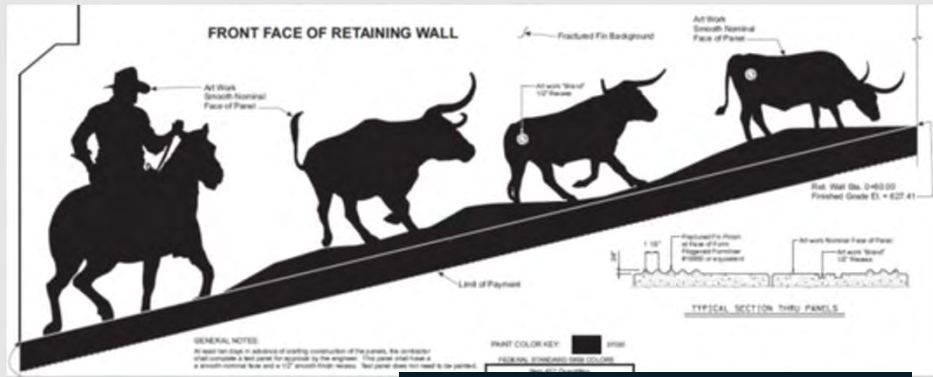
**Abbott**



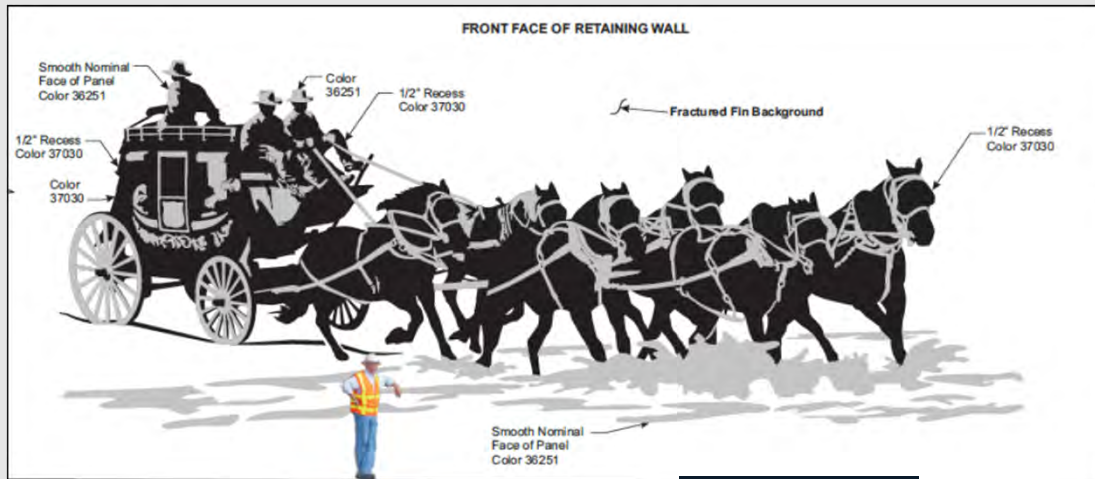
**West**



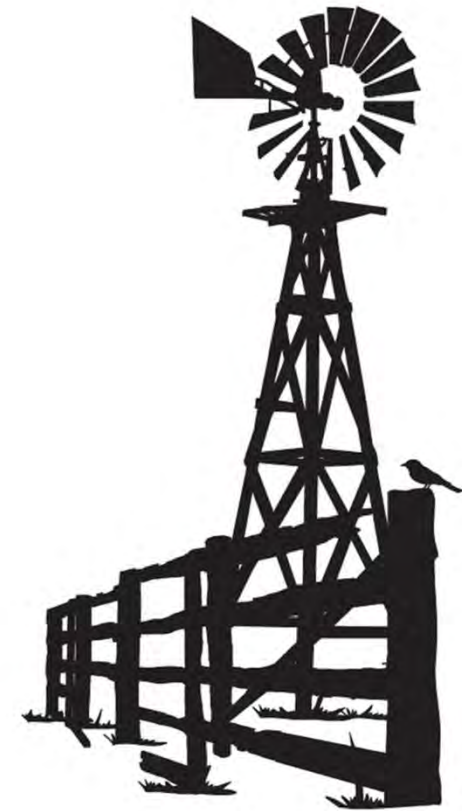
# Murals



**Bruceville-Eddy**



**Salado**



**Troy**



# Safety Rest Areas, Hill County and Bell County



**Rest Areas**  
**Hill County**

**Bell  
County**



# Safety Rest Areas, Hill County and Bell County



- Children's play area
- Walking trails
- Climate-controlled restrooms
- Enhanced security
- Storm shelters
- Grass paving



# Thank You

