



CENTRAL TEXAS
Regional Mobility Authority

Welcome and opening remarks by the Chairman and members of the Board of Directors

Agenda Item #1

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Opportunity for Public Comment

Agenda Item #2

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Regular Items

Agenda Items #3-9

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Approve the minutes for the September 28, 2016 Regular Board Meeting

Agenda Item #3

Geoff Petrov

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Accept the financial statements for September 2016

Agenda Item #4

Mary Temple

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Consider and, potentially, modify the annual toll rate escalation becoming effective on January 1, 2017

Agenda Item #5

Bill Chapman, Chief Financial Officer

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

January Toll Rate Calculation 183A



January 2016 Toll rate Calculation 183A

		Current Rate	CPI ^{t-12}	CPI ^t	(CPI ^t -CPI ^{t-12})/CPI ^{t-12}	Floor	CPIu Increase	New Toll rates 1/1/17	2015	2020
			CPI base Rate Sep 2015	CPI current Rate Sep 2016	CPI Adjustment 1/1/17				Original 183A Toll Schedule	Original 183A Toll Schedule
183A										
Crystal Falls ramps	ETC	\$ 0.40	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.41		
Crystal Falls Main Lane	ETC	\$ 1.03	237.945	241.428	1.46378%	0.0000	\$ 0.02	\$ 1.05		
Scottsdale Ramp	ETC	\$ 0.58	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.59		
Park Street mainlane	ETC	\$ 1.46	237.945	241.428	1.46378%	0.0000	\$ 0.02	\$ 1.48	\$ 2.00	\$ 2.25
Brushy Creek Ramps	ETC	\$ 0.58	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.59	\$ 0.75	\$ 1.00
Lakeline Main Lane	ETC	\$ 0.54	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.55	\$ 0.70	\$ 0.90
Manor										
183 Direct Connectors	ETC	\$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
Springdale ramps	ETC	\$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
Giles ramps	ETC	\$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
Giles Main Lanes	ETC	\$ 1.10	237.945	241.428	1.46378%	0.0000	\$ 0.02	\$ 1.12		
Harris Branch Parkway ramps	ETC	\$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
Palmer Main Lanes	ETC	\$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		

Adopt a Toll Rate for the SH 71 Express Lane

Agenda Item #6

Bill Chapman, Chief Financial Officer

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Authorize negotiation and execution of a design phase Project Development Agreement with the Texas Department of Transportation for the Manor Expressway (290E) Phase III Project

Agenda Item #7

Justin Word, P.E., Director of Engineering

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Approve Work Authorization No. 4 with Fagan Consulting LLC to provide general systems consulting services for FY 2017

Agenda Item #8

Tim Reilly, Director of Operations

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

Approve Work Authorization No. 5 with Fagan Consulting for professional assistance in the procurement of new Pay-by-Mail processing services

Agenda Item #9

Tim Reilly, Director of Operations

October 26, 2016



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Regional Mobility Authority

Briefings and Reports

Agenda Items #10-14

October 26, 2016



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Regional Mobility Authority

Quarterly Update on transportation projects under construction. MoPac Improvement Project

Agenda Item #10-A

Steve Pustelnyk, Director of Community Relations

October 26, 2016



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Regional Mobility Authority

**Slides with current
Express Lane performance data
to be added for Board meeting**



Overall Project – 77% Complete

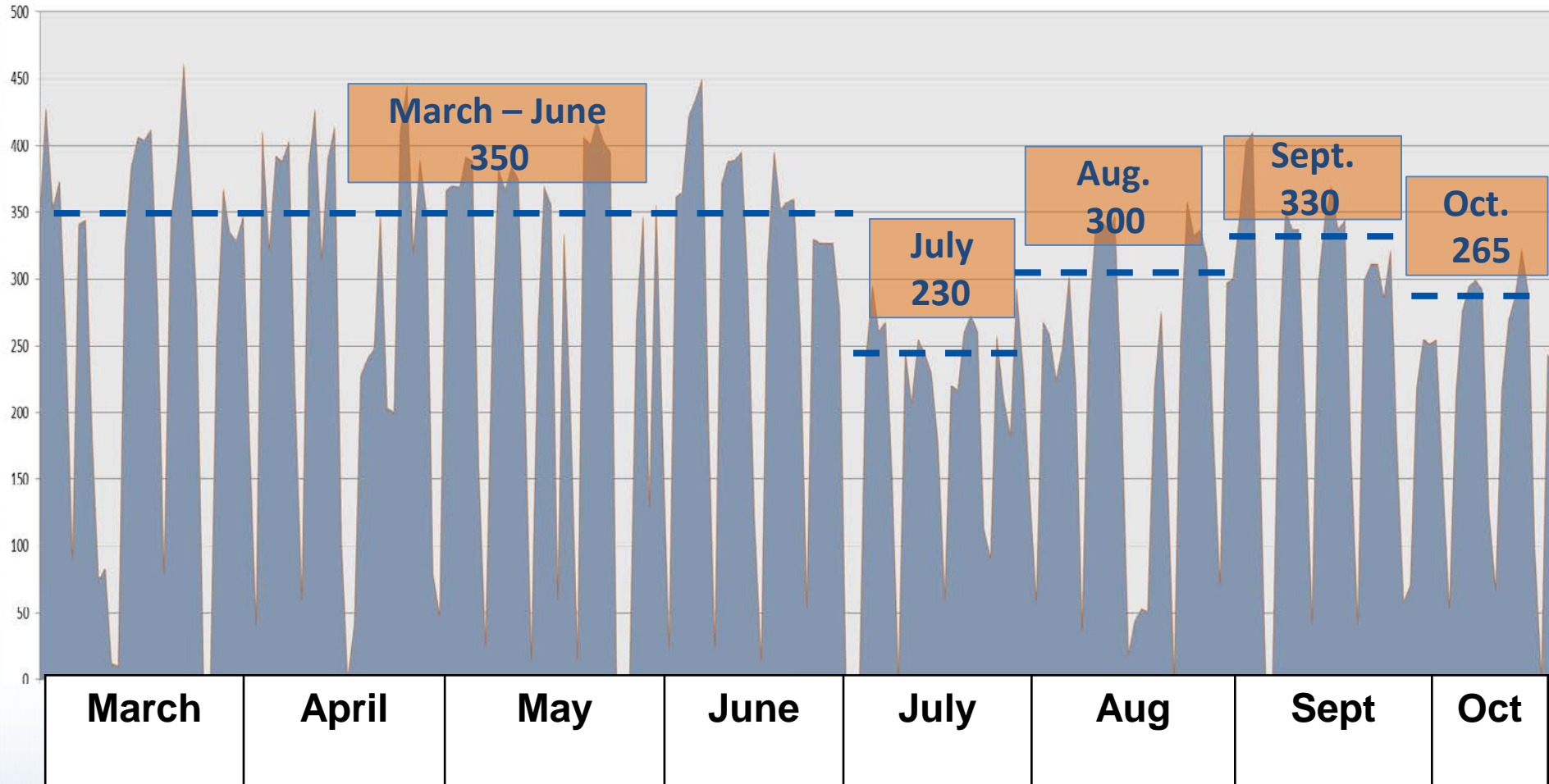
- **North End (approx. 7 miles)**
 - US 183 to RM 2222 Southbound – 88% complete
 - RM 2222 to Parmer Lane Northbound – substantially complete
- **South End (approx. 5 miles)**
 - Enfield to RM 2222 (3.5 miles) – 51% complete
 - Cesar Chavez to Enfield (<1 mile) – 67% complete
 - Under crossings – 77% complete
- **Soundwalls – 60% complete**

Opening Milestones

Northbound express lane opened

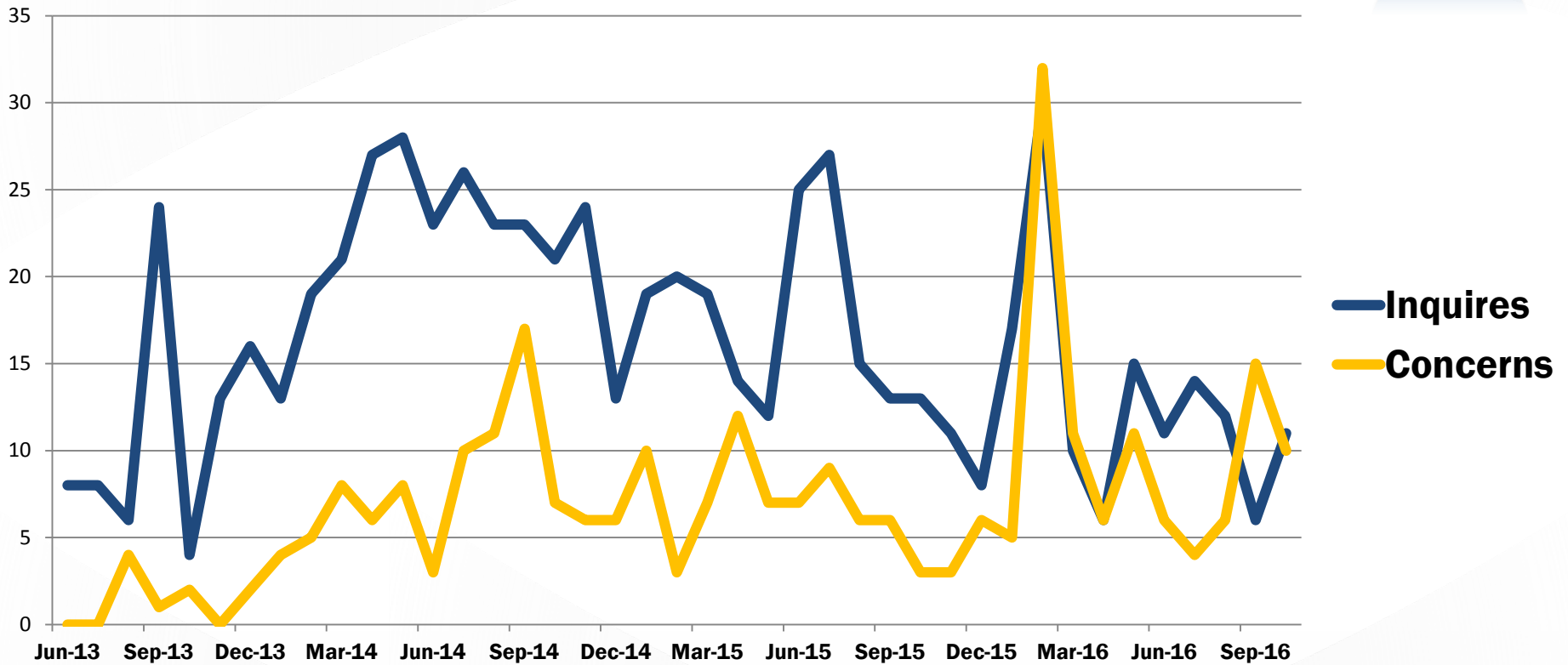
- Segment 1&2 opened on Saturday morning, 15 OCT 2016
- **All Express Lanes**
 - Late Spring 2017

Progress Metrics: Labor (March – August)



- In recent weeks, average work force numbers have been trending lower around 265.

Customer Contact Trends





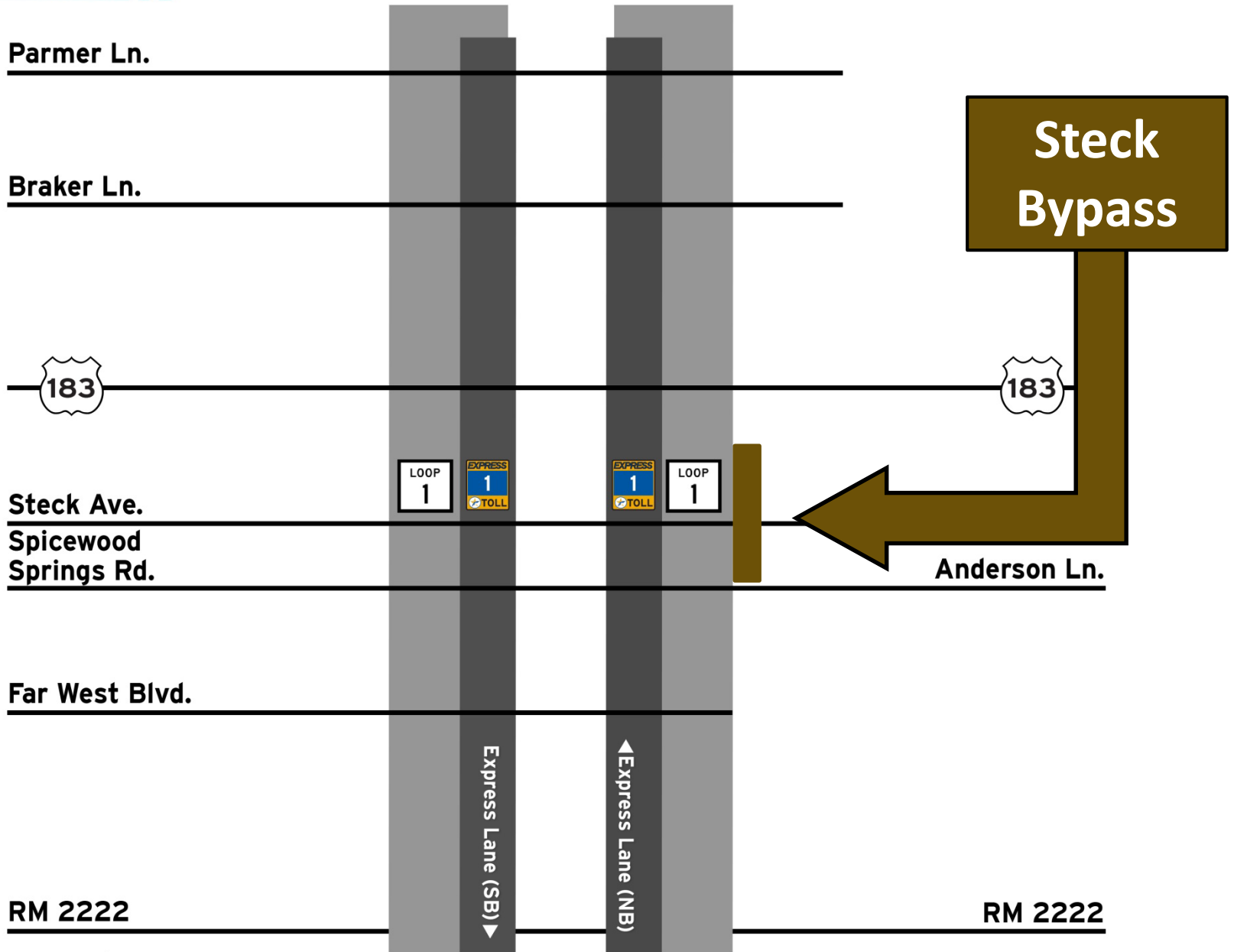
- **Northbound express lane opening**
 - Segment 1&2 opened on Saturday morning, 15 OCT 2016
- **Northbound traffic switch**
 - Late November 2016
- **Southbound traffic switch**
 - Late October 2016
- **All Express Lanes**
 - Late Spring 2017

Construction Progress

◀ MOPAC
IMPROVEMENT
PROJECT ▶▶



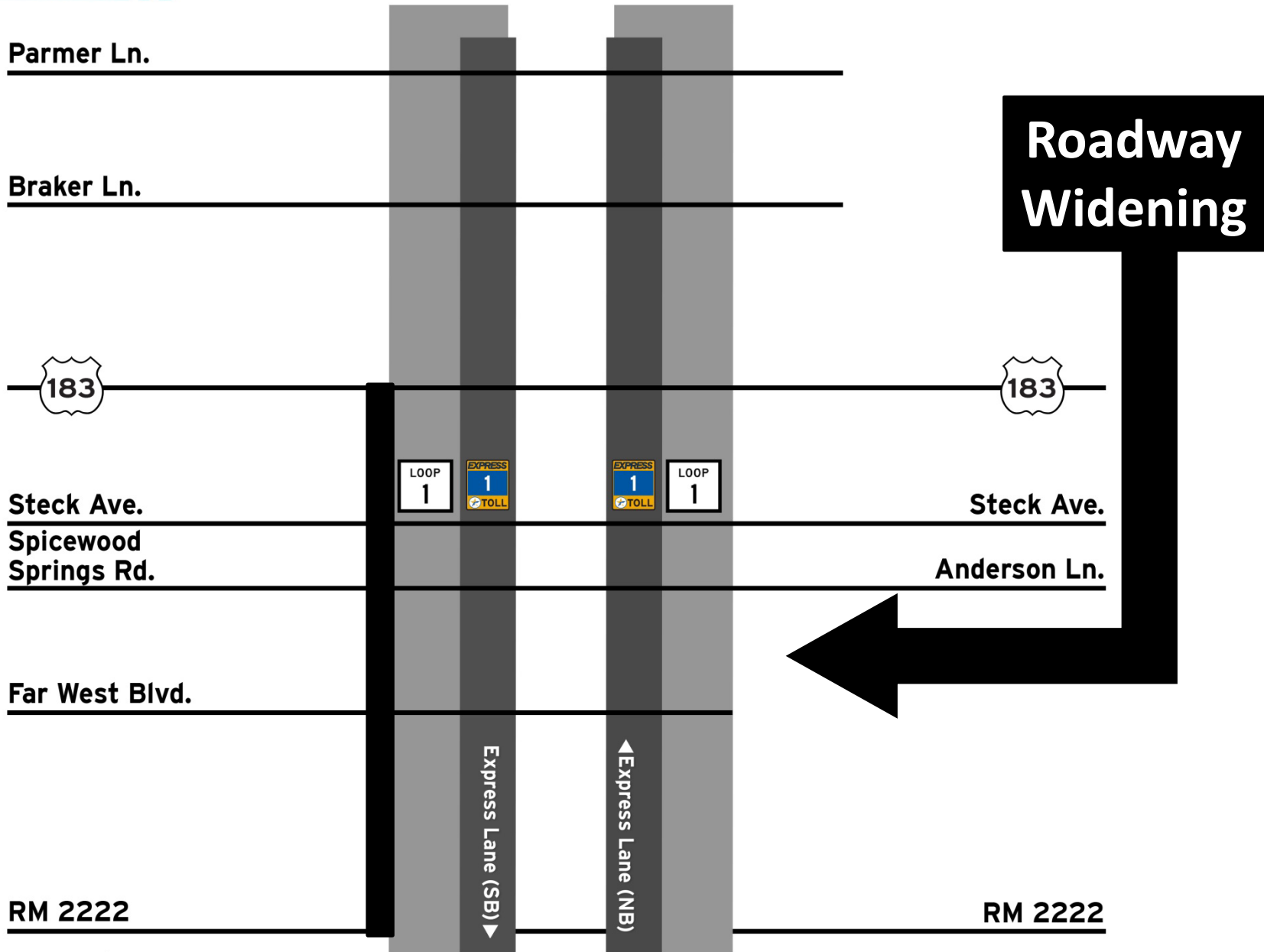
Section 1 & 2 – RM 2222 to Parmer Lane



Steck Bypass



Section 1 & 2 – RM 2222 to Parmer Lane

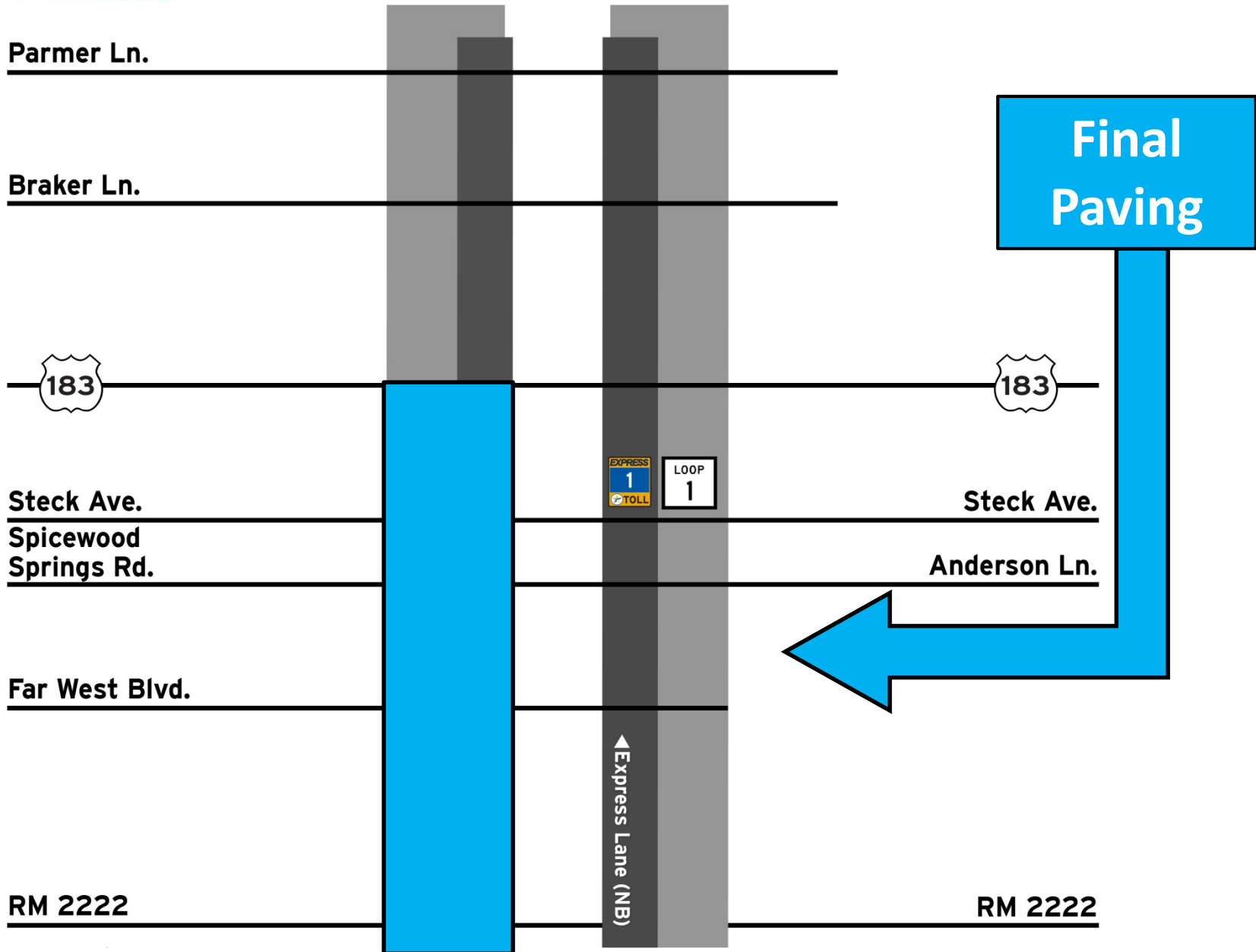




Roadway Widening



Section 1 & 2 – RM 2222 to Parmer Lane



Final Paving



SOUTH
EXPRESS
1
TOLL
↓

EXPRESS LANE
EXIT TO
RM
2222
Northland Dr
↗

EXPRESS LANE
EXPRESS
1
TOLL
ENTRANCE
1/2 MILE
LEFT LANE

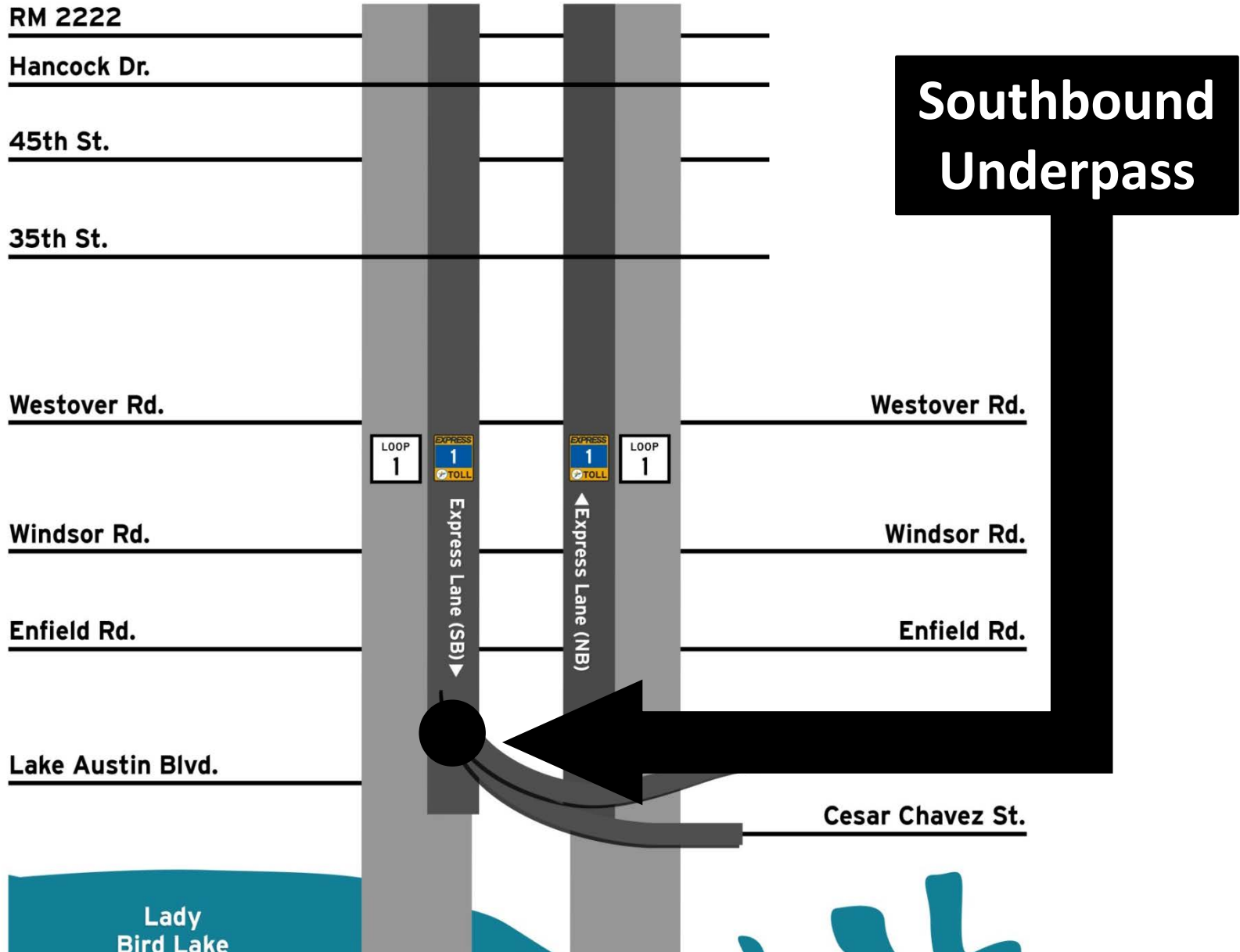
DO NOT
CROSS
DOUBLE
WHITE LINE

TollTag Mail

EXPRESS
LANE
CLOSED

CLOSED

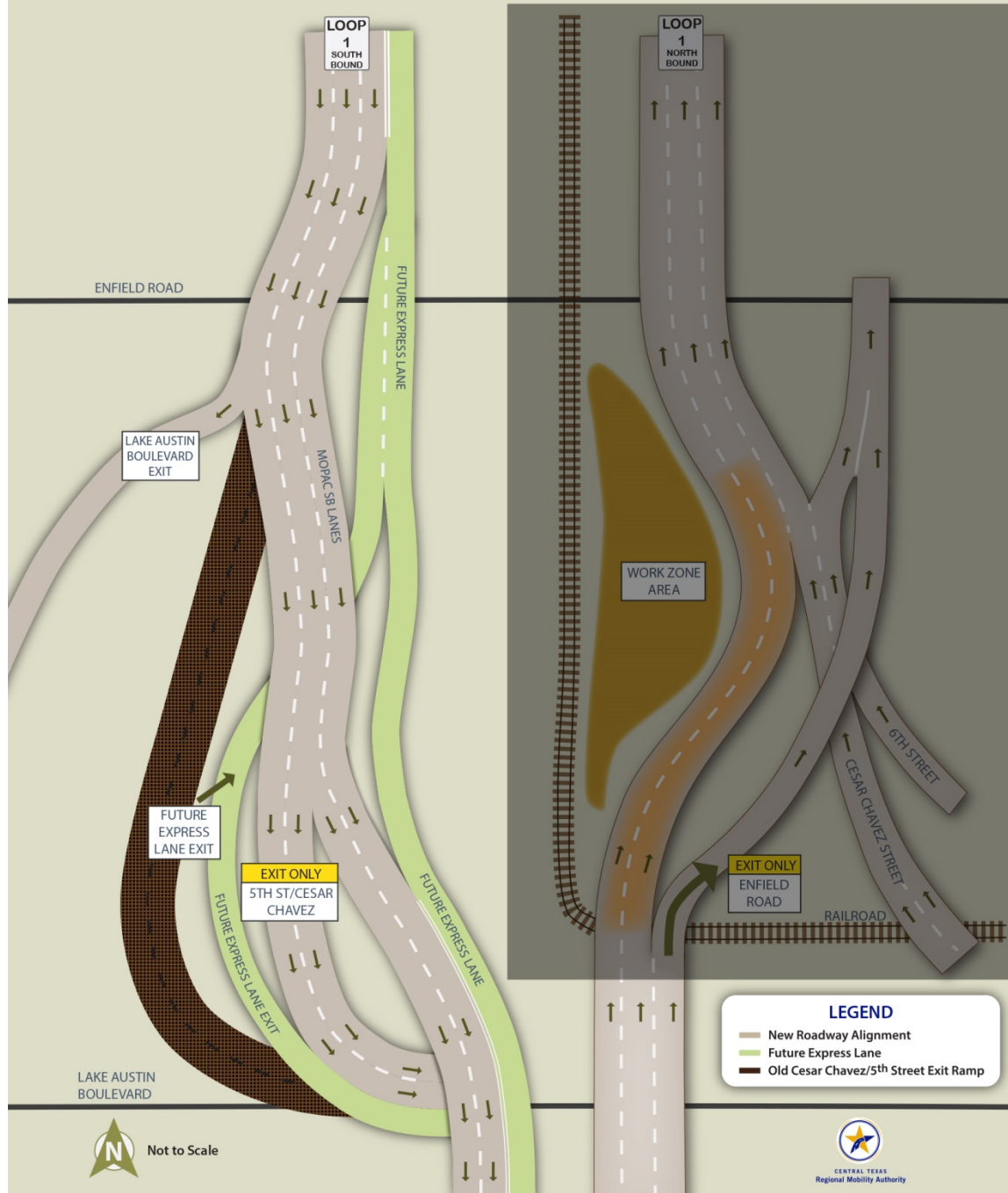
Section 3 & 4 – Cesar Chavez to RM 2222



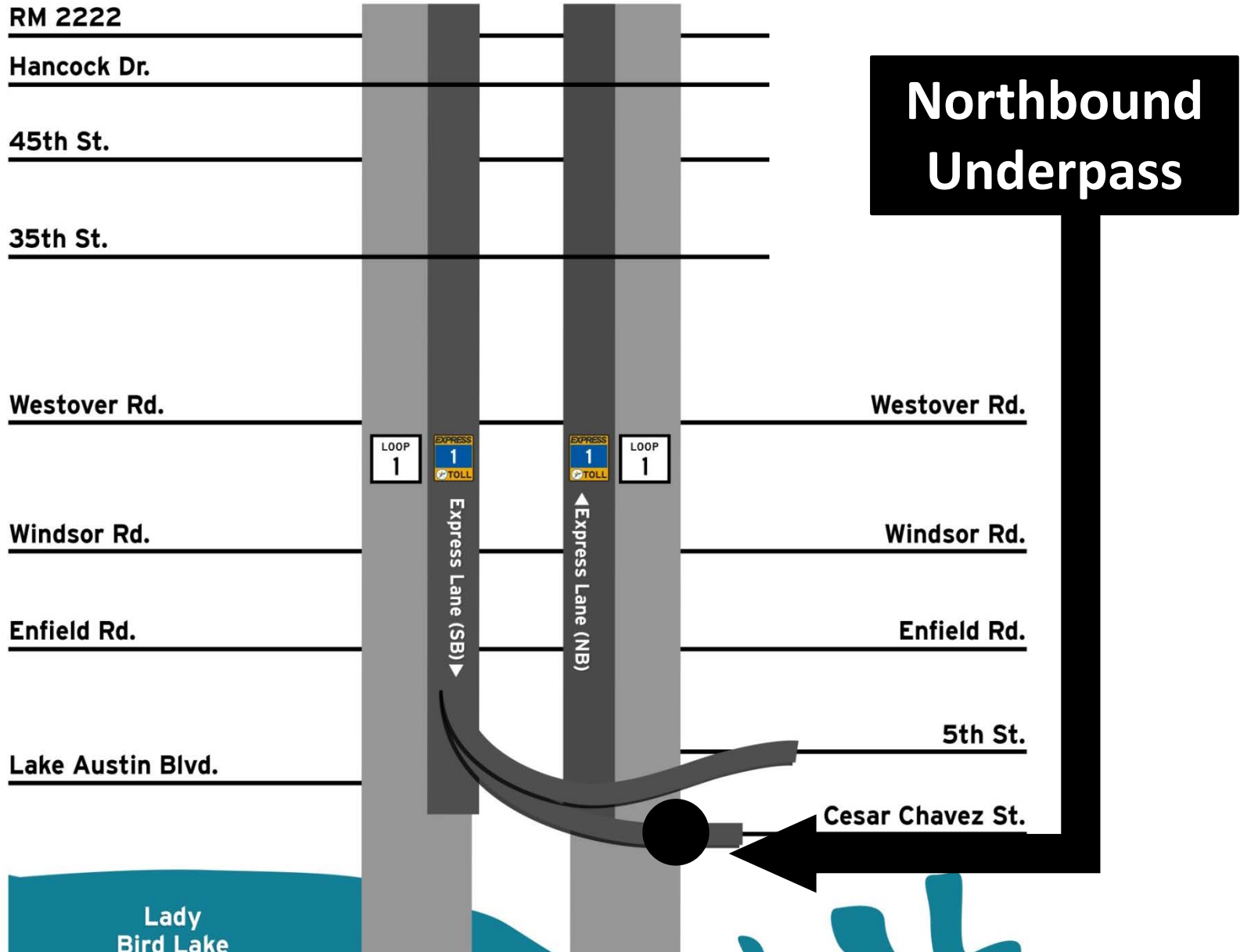
Southbound Underpass



SOUTHBOUND MOPAC: REALIGNMENT AT CESAR CHAVEZ/5TH STREET EXIT



Section 3 & 4 – Cesar Chavez to RM 2222

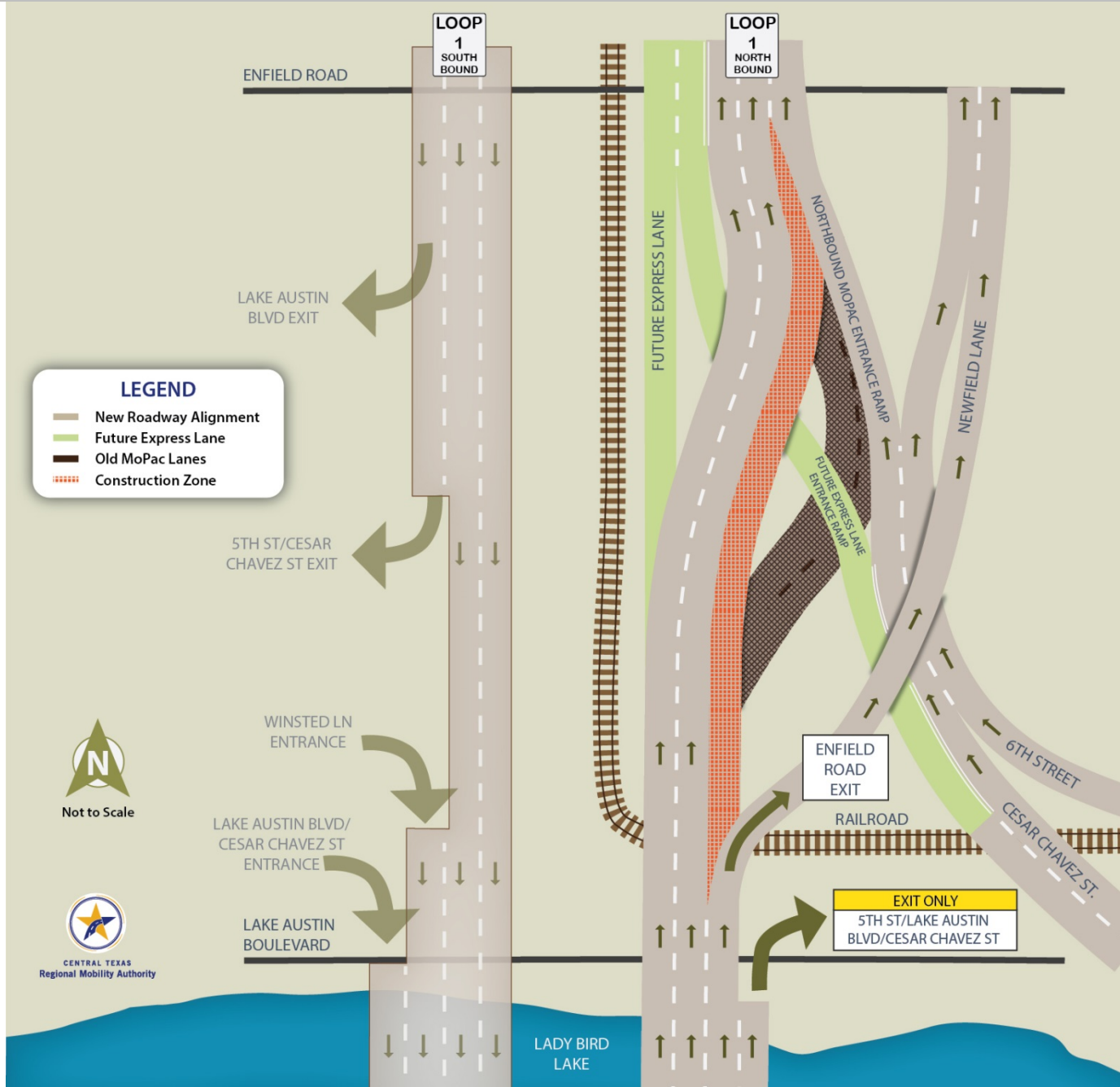




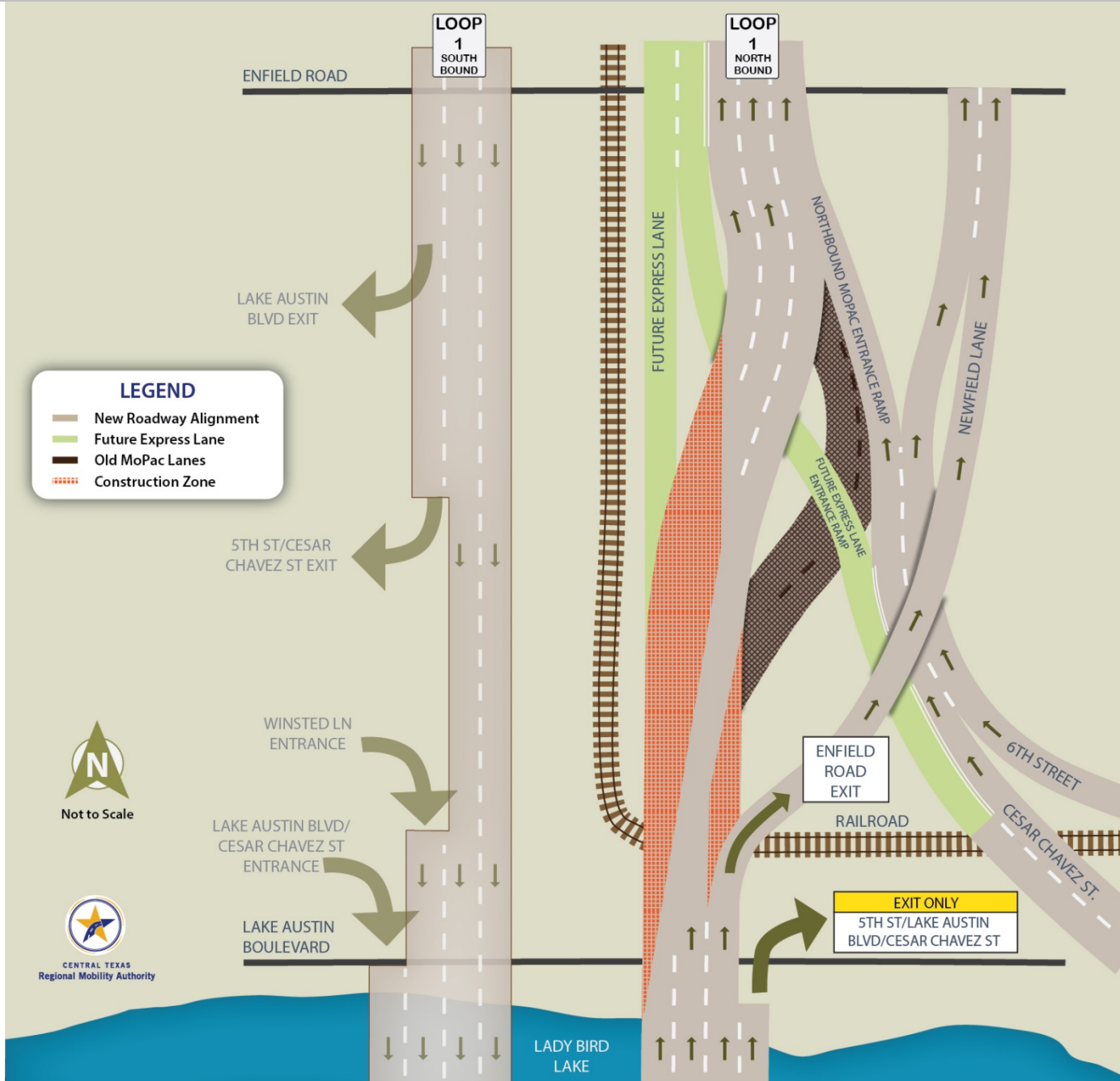
Northbound Underpass



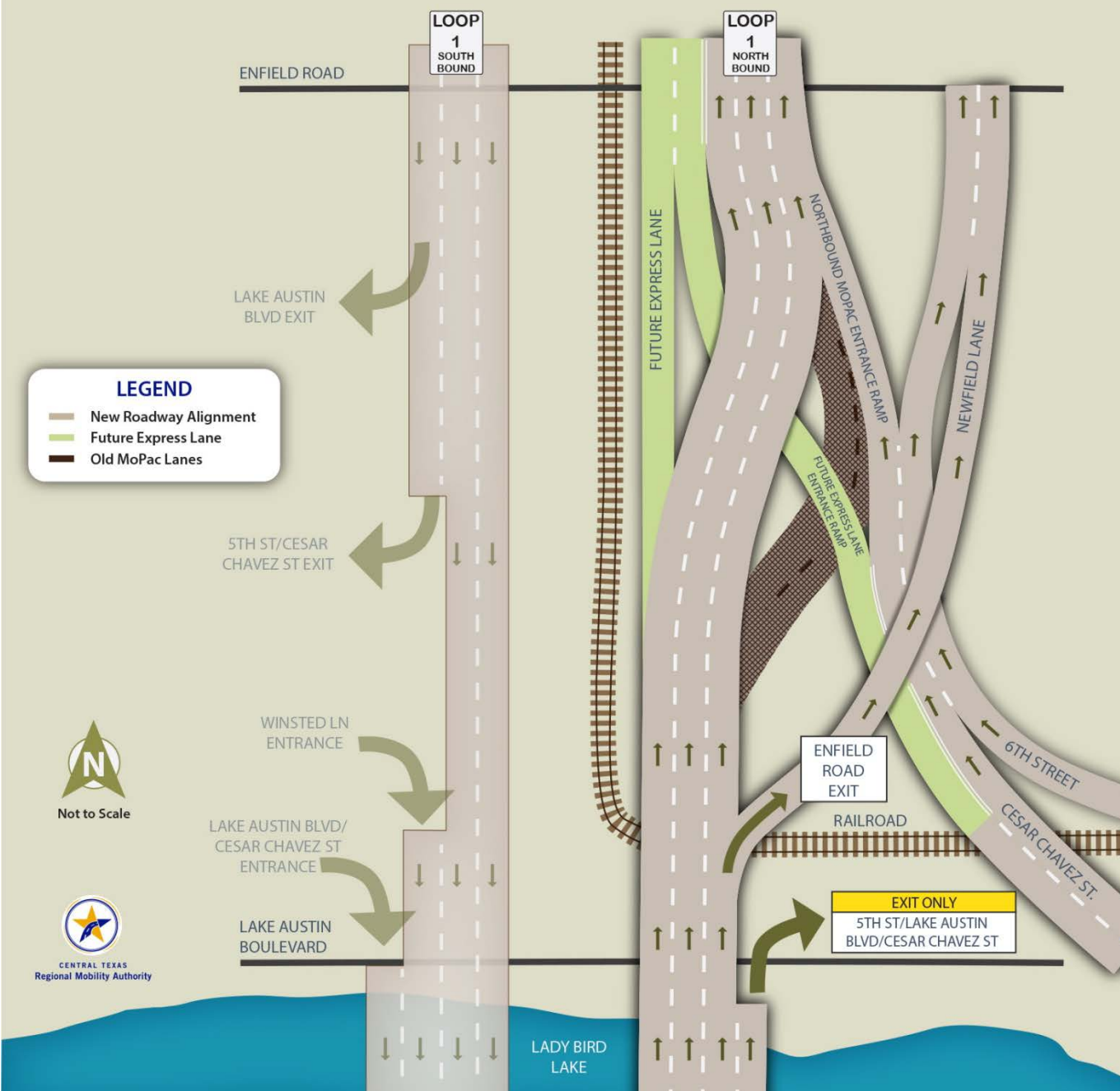
Phase 1: MoPac Realignment at Northbound Express Lane Underpass



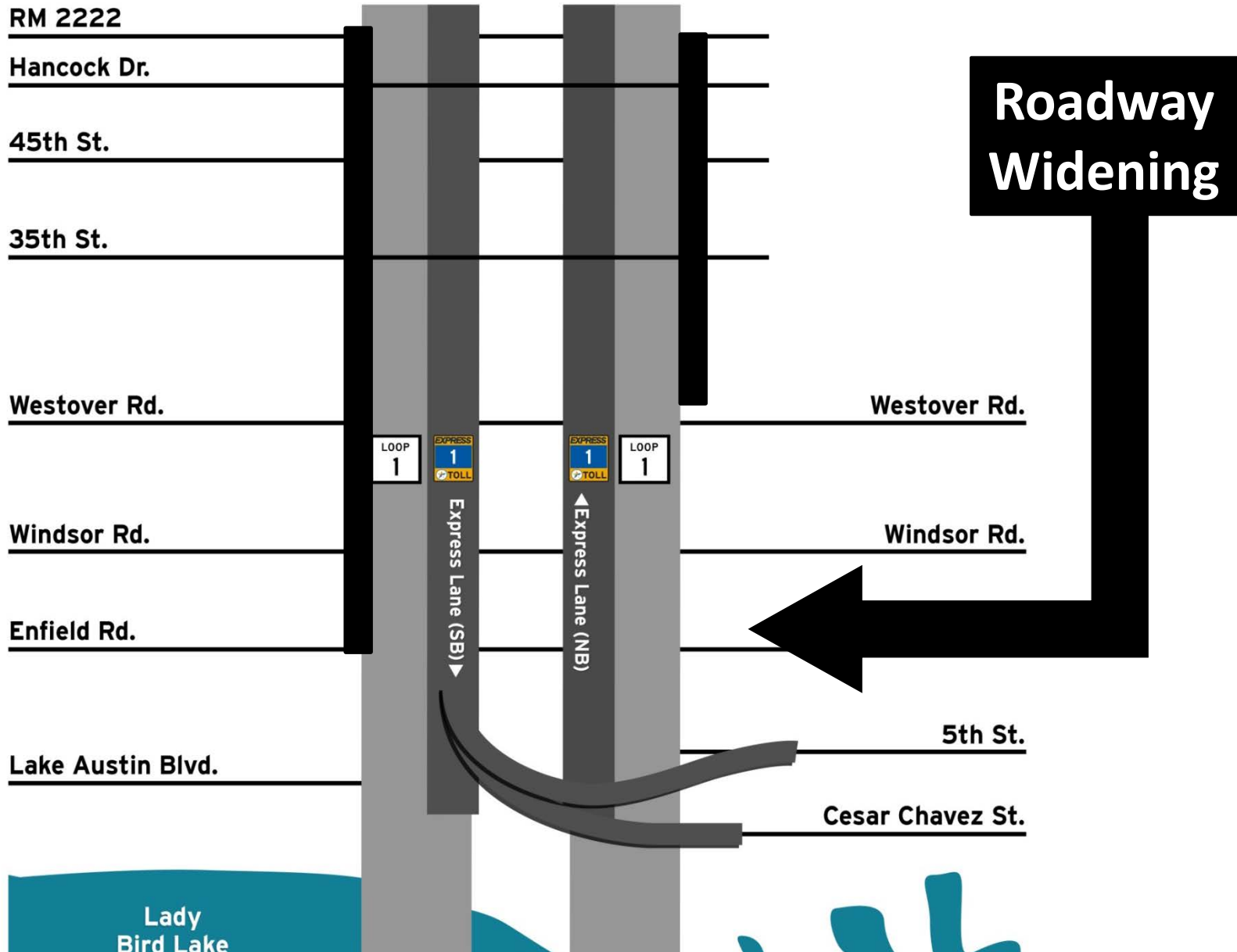
Phase 2: MoPac Realignment at Northbound Express Lane Underpass



Final Northbound Express Lane Entrance at Cesar Chavez Street



Section 3 & 4 – Cesar Chavez to RM 2222



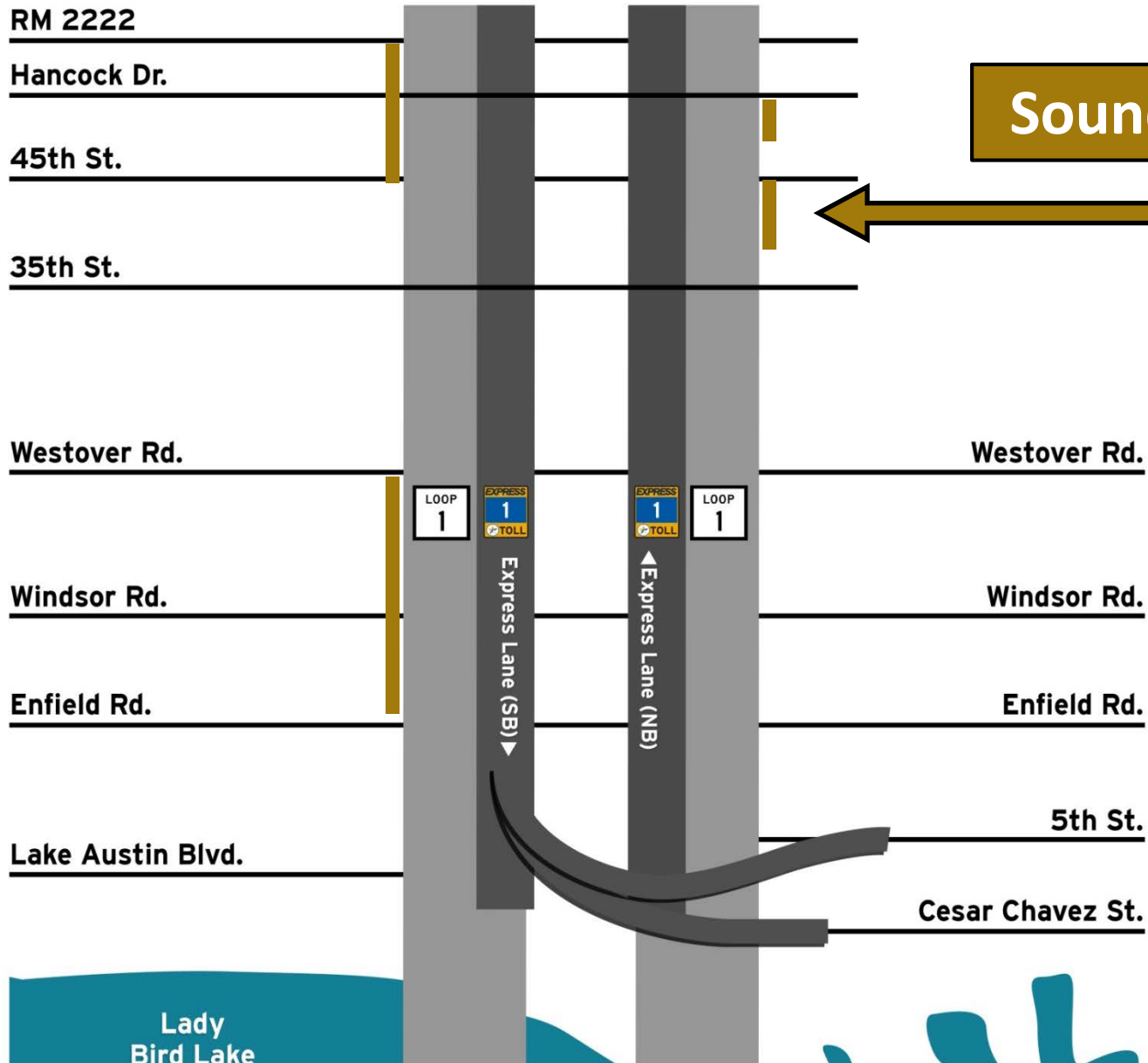
Roadway Widening



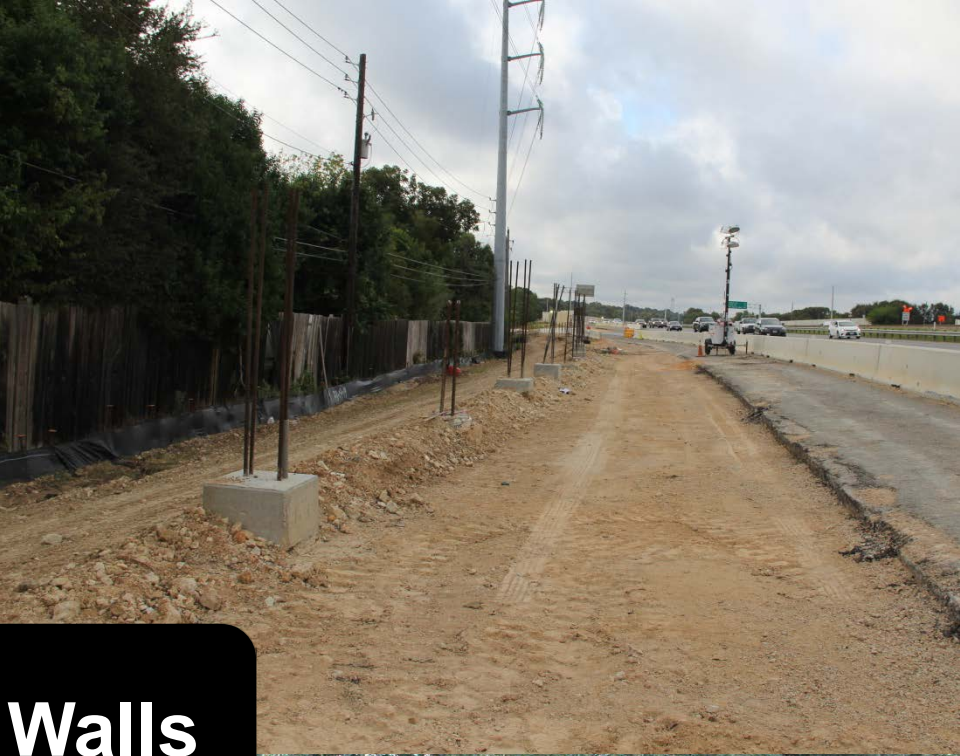
Roadway Widening



Section 3 & 4 – Cesar Chavez to RM 2222



Sound Walls



Sound Walls



Express Lane Opening



Opening Information Campaign

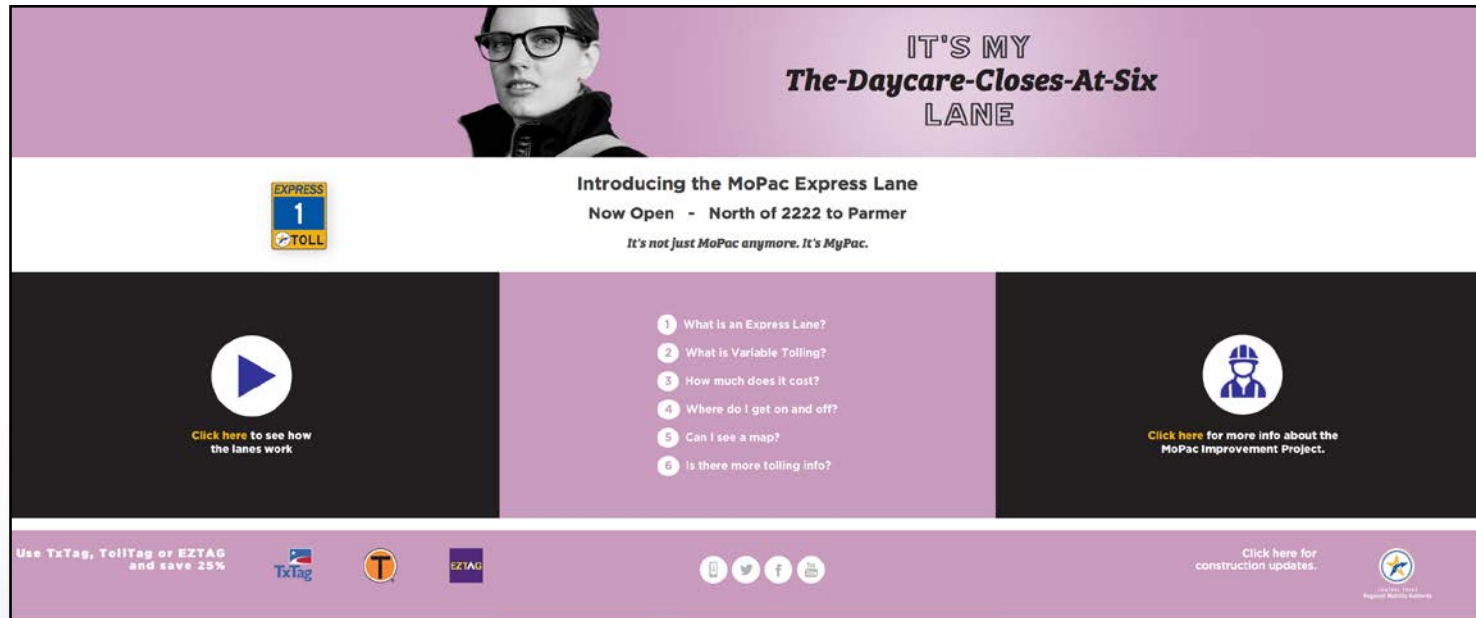


- Campaign goal to inform drivers about Express Lane via advertising, social media and website landing page
- :60 television spot = 192 spots over four weeks
- Social media sponsored posts: Five weeks
- Digital banners: Four weeks
- Statesman: Two Sunday high impact ads

Website Landing Page



- Page views: 28,088
- 274% increase from previous month
- Average time spent on page: 1 minute and 28 seconds



Social Media Metrics



Social media posts have been educational and driving users to website landing page

Facebook:

- Total Impressions: 283,652
- Total Link Clicks: 8,135

Twitter:

- Total Impressions: 54,138
- Total Link Clicks: 664



Mopac Improvement Project

Written by Stefani Zellmer [?] · September 26 at 11:50am · 🌐

What's an Express Lane? It's a way to bypass congestion and get to your destination on time, on those days when you can't afford to be late.



The MoPac Express Lane

Express Lanes are special lanes that use variable tolling. The goal is to prevent congestion by managing the number of vehicles using the lane. They are not meant for everyday use, but for those special occasions when you can't afford to be late.

MOPACEXPRESS.COM

[Learn More](#)

Social Media Posts



MoPac Project @ImproveMopac · 40m

Can't afford to be late? Try the new Express Lane. Now open northbound from north of 2222 to Parmer. How will you use it?
[#MyPac](#)



You Retweeted



White Collar John @iambearthor · 17h

People who don't believe in miracles must not be aware of the new express lane on Mopac northbound.



Digital Banner Metrics



- Animated banner ads on commercial web sites designed to drive viewers to the website landing page
- Total Impressions: 654,170
- Total Link Clicks: 1,211




IT'S MY
**I-
Can't-
Miss-
The-
Kickoff**
LANE



Learn more at
MoPacExpress.com



IT'S MY
**Can't-Miss-
The-Opening-
Band-Cuz-I'm-
Kinda-The-
Drummer**
LANE



Learn more at
MoPacExpress.com



IT'S MY
**The-Bus-
Is-Cheaper-
Plus-I-
Can-Finish-
My-Book**
LANE



Learn more at
MoPacExpress.com

Express Lane Performance



Quarterly Update on transportation projects under construction. 183 South Project

Agenda Item #10-B

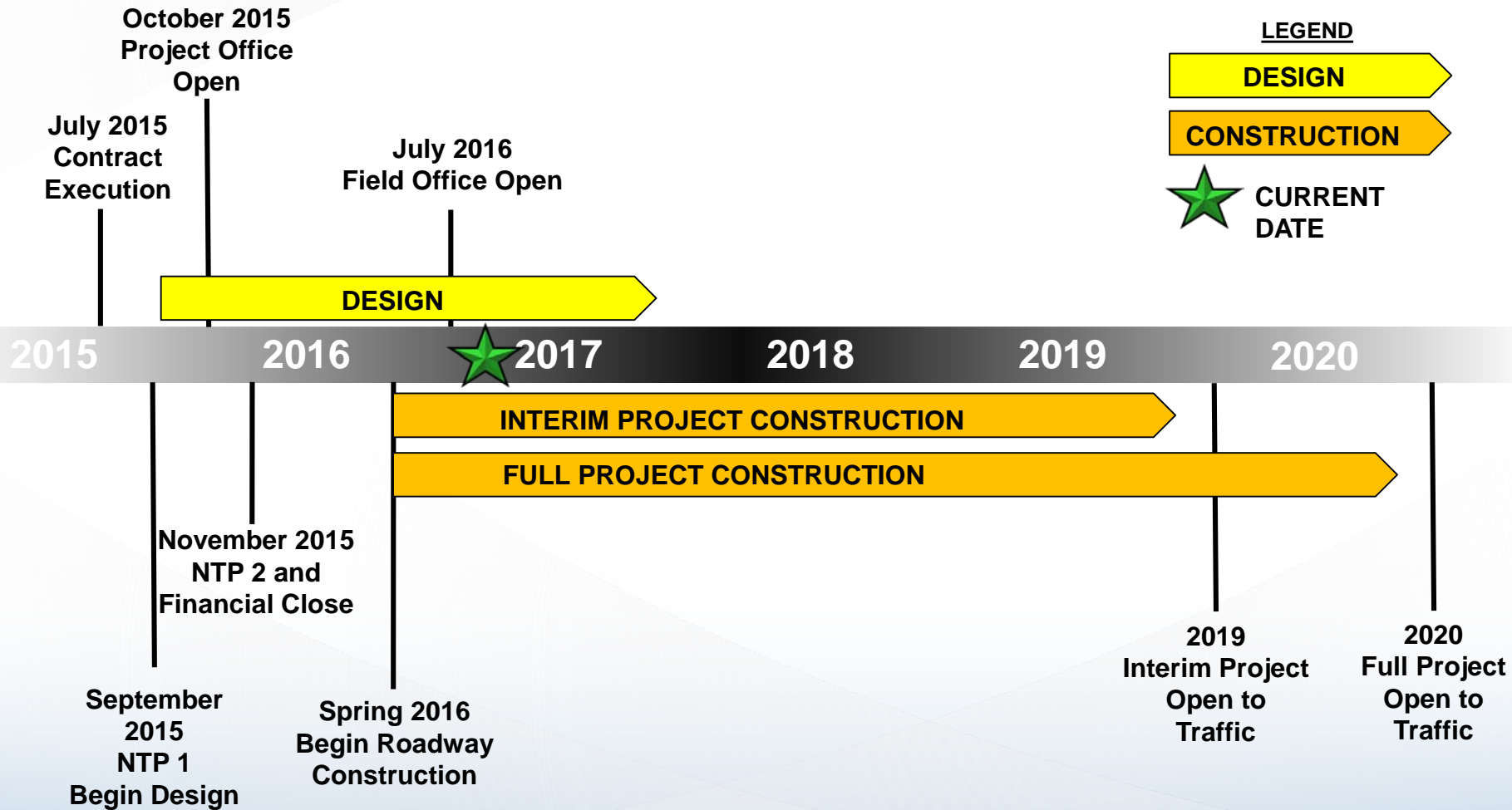
Justin Word, P.E., Director of Engineering

October 26, 2016



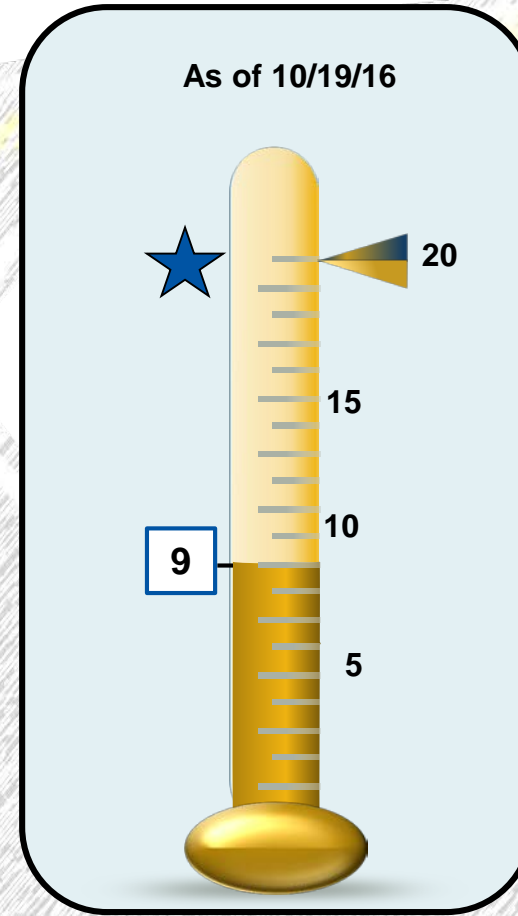
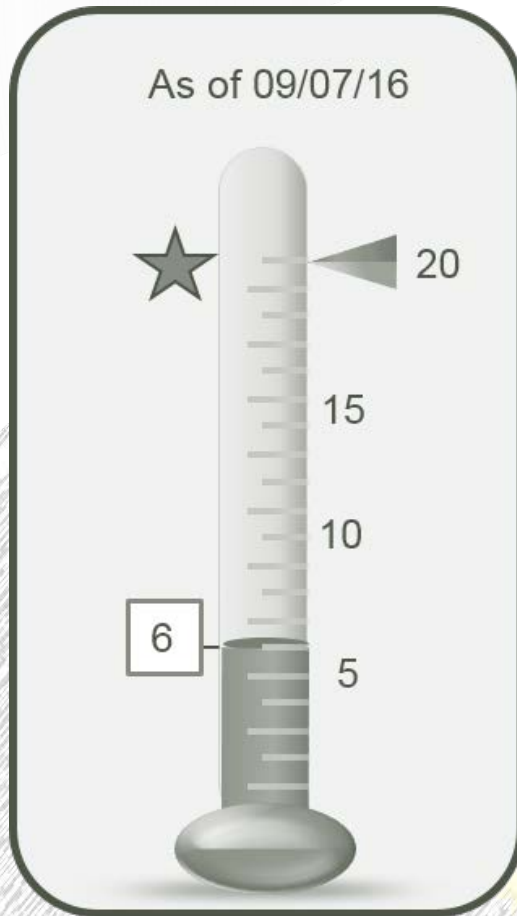
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Regional Mobility Authority

183 South Project Schedule





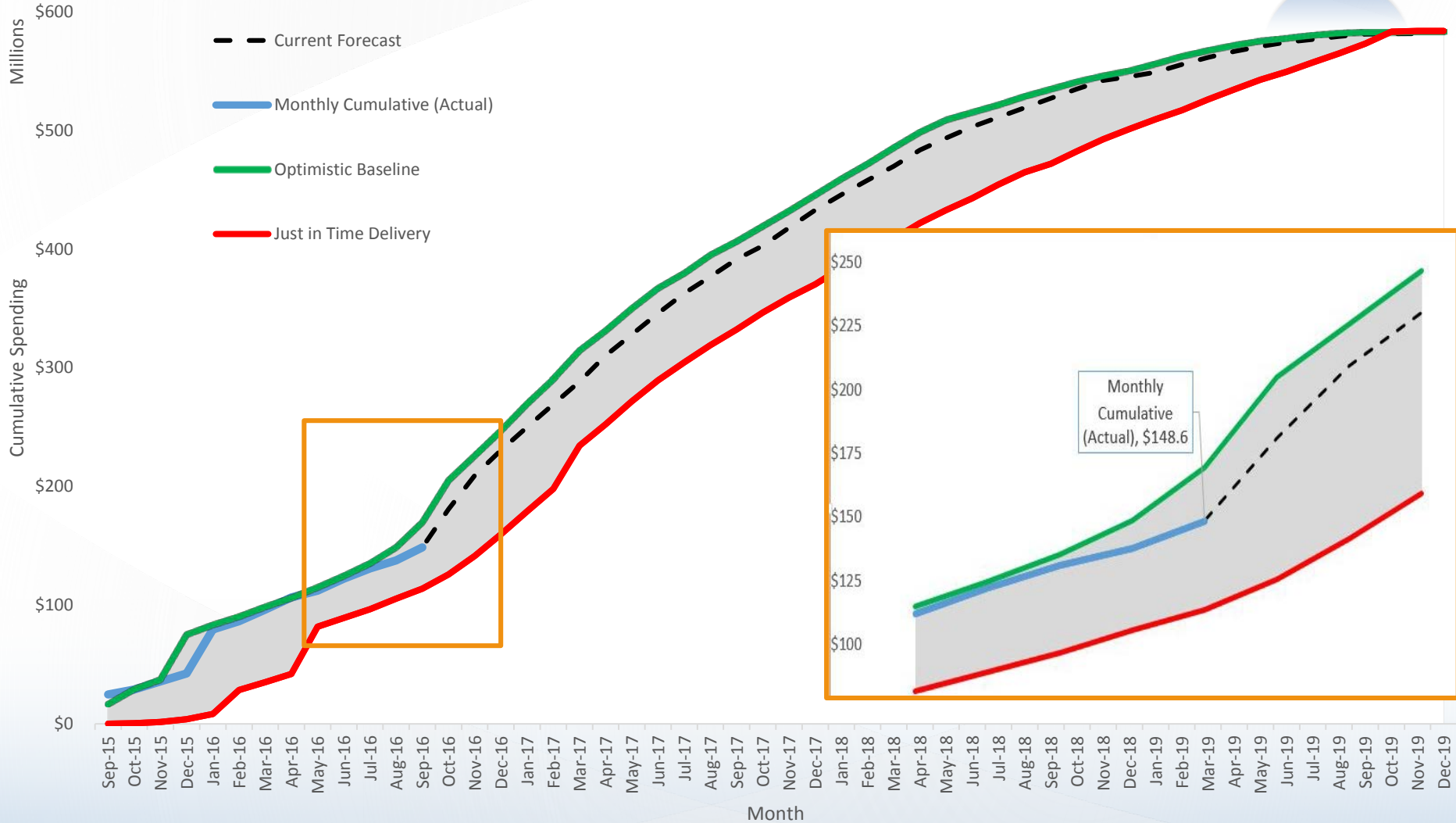
Permitted Packages



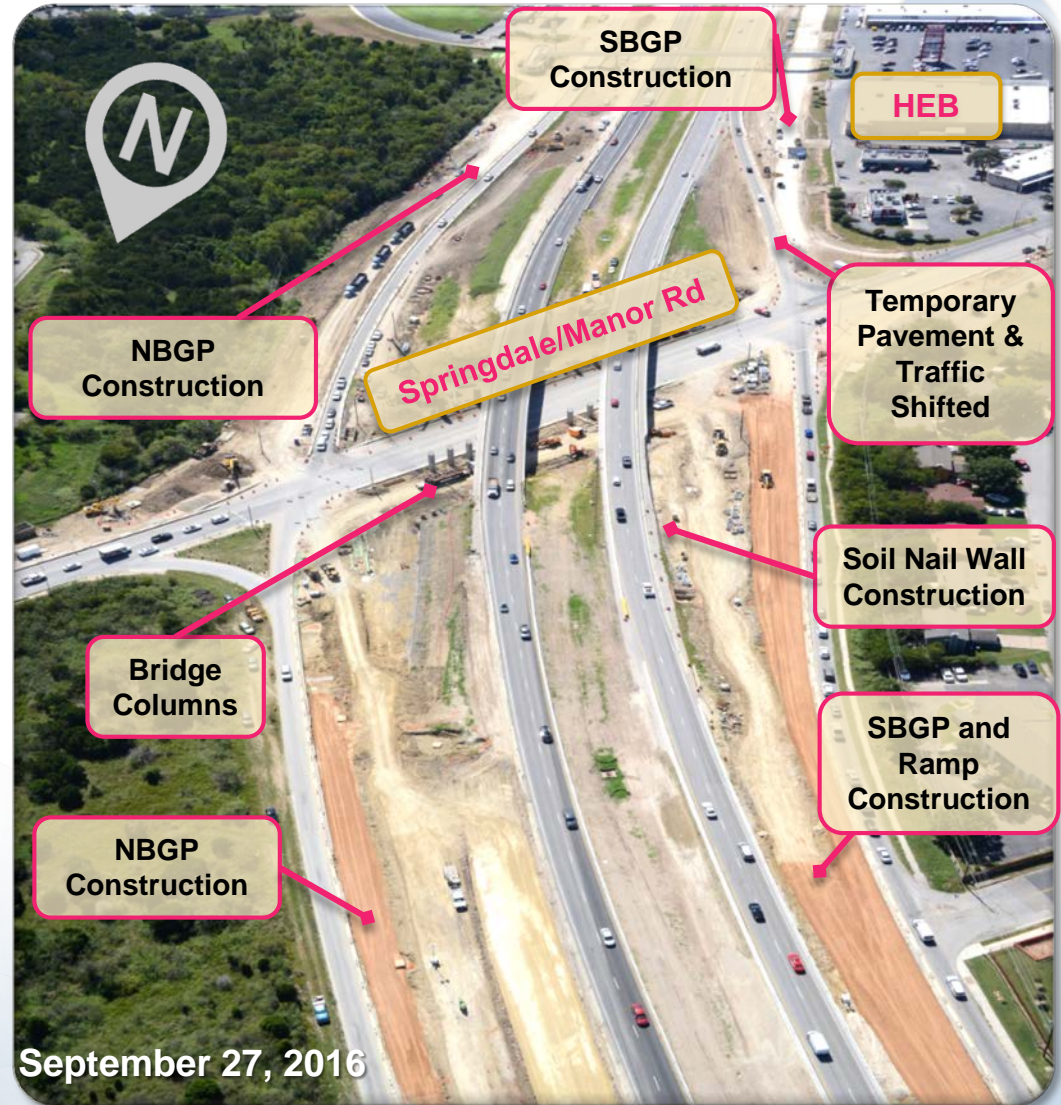
Cash Flow Diagram



Through September 30, 2016



Project Progress - Springdale/Manor Interchange





Soil Nail Wall Construction at Springdale/Manor Interchange – NE Abutment



Column Work at Springdale/Manor (round columns to rectangular columns)



First MSE Wall Being Constructed SE of Springdale/Manor intersection



Little Walnut Creek - Boring Operation



Aesthetic Delta Bent at MLK/FM 969

Public Outreach Status



Events and Meetings

- 7 stakeholder meetings
- 10 “Meet the Contractor” events
- 2 Sponsored Ice Cream Socials
- 1 neighborhood meeting
- SH 71 Turnaround Neighborhood Meeting (8/3/16)



Public Outreach Status



Proactive Outreach

- Project e-newsletter sent August 18, with 44% open rate.
- Construction impacts outreach via Twitter, e-mail alerts, website updates

Upcoming Activities

- TreeFolks Sapling giveaway
- Informational Booth at NXP Semiconductors
- Neighborhood Meeting with Travis Station Apartments
- Austin Chamber of Commerce Mobility & Transportation Committee Presentation



183 South @183South - Aug 13

Our project team is at the @HEB on Springdale/Manor Rd & US183 until 1:30 today. Visit us & learn about the project



183 South @183South - Aug 12

DETOUR TONITE 6p-10a: US183 northbound frontage CLOSED btwn Springdale & US290. Take Springdale, left on US290 frontage to US183 #abtraffic



183 South @183South - Jul 7

We're designing brand new bridges on 183S. Read how CRC's Structures Engineer Brendan McGrath rises to the challenge eepurl.com/b7GB2D

183 SOUTH

HOME | 1-655-245-4272 | GOOGLE TRANSLATE

Project Overview Construction Information Multimedia Stay Involved Contact Us

View construction legend

Austin

Map data ©2016 Google

TOGGLE TRAFFIC

CENTRAL TEXAS Regional Mobility Authority

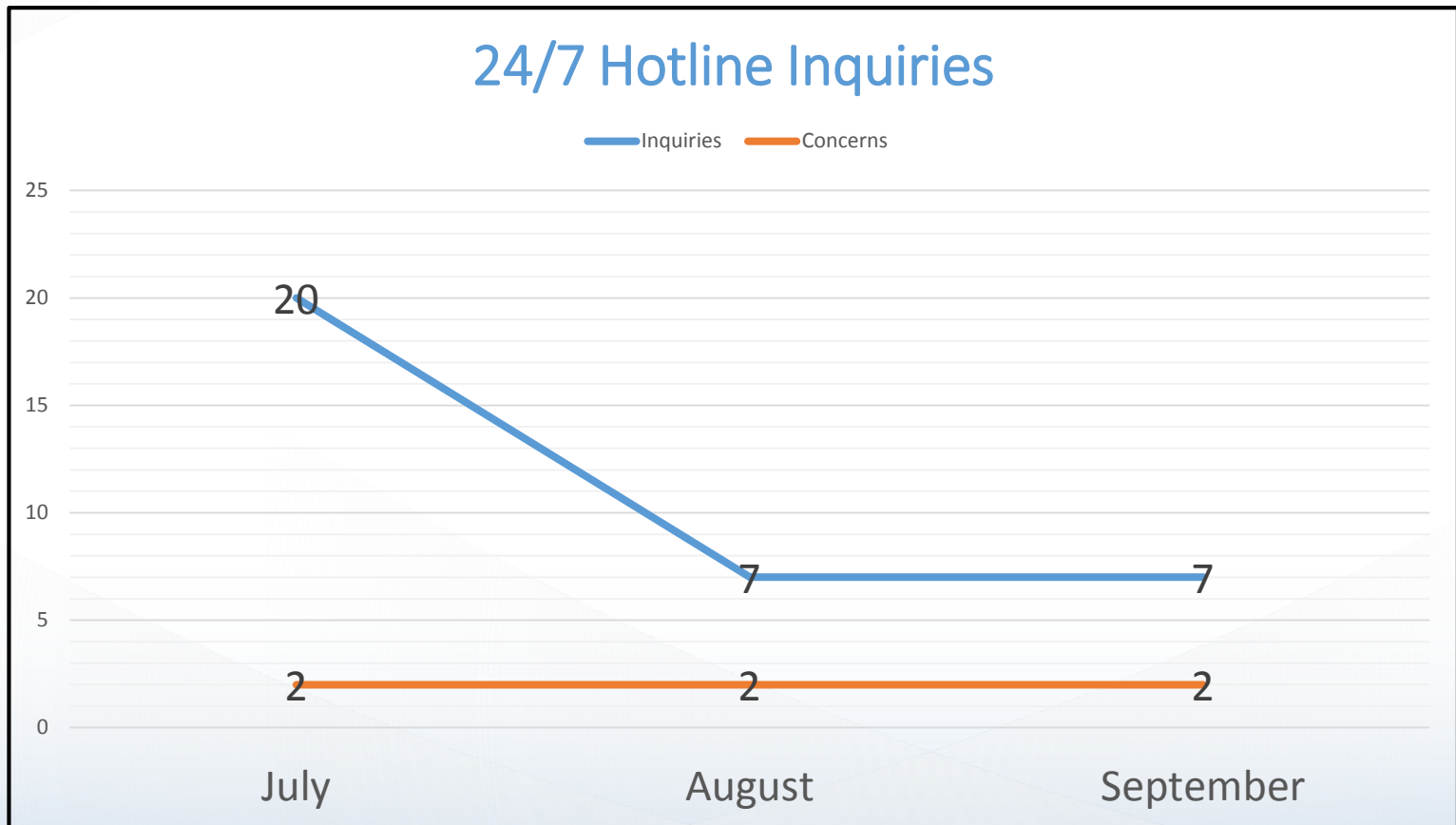
The Central Texas Regional Mobility Authority is building a new tolled expressway with three lanes in each direction on an eight-mile section of US 183 between US 290 and SH 71. In addition, the Mobility Authority will be reconstructing and improving the non-tolled US 183 general purpose lanes and adding \$25 million worth of pedestrian and bicyclist facilities. The project will open in phases between 2019 and 2020, offering greater mobility for all users of the corridor.

SIGN UP FOR CONSTRUCTION ALERTS

Status of Public Inquiries



The project team fields calls from the public via our 24/7 project hotline and via our website





Questions, Comments?

Quarterly Update on transportation projects under construction. SH 45 Southwest Project

Agenda Item #10-C

Justin Word, P.E., Director of Engineering

October 26, 2016



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Regional Mobility Authority

Quarterly Update on transportation projects under construction. 290 East Interim Improvement Project

Agenda Item #10-D

Justin Word, P.E., Director of Engineering

October 26, 2016

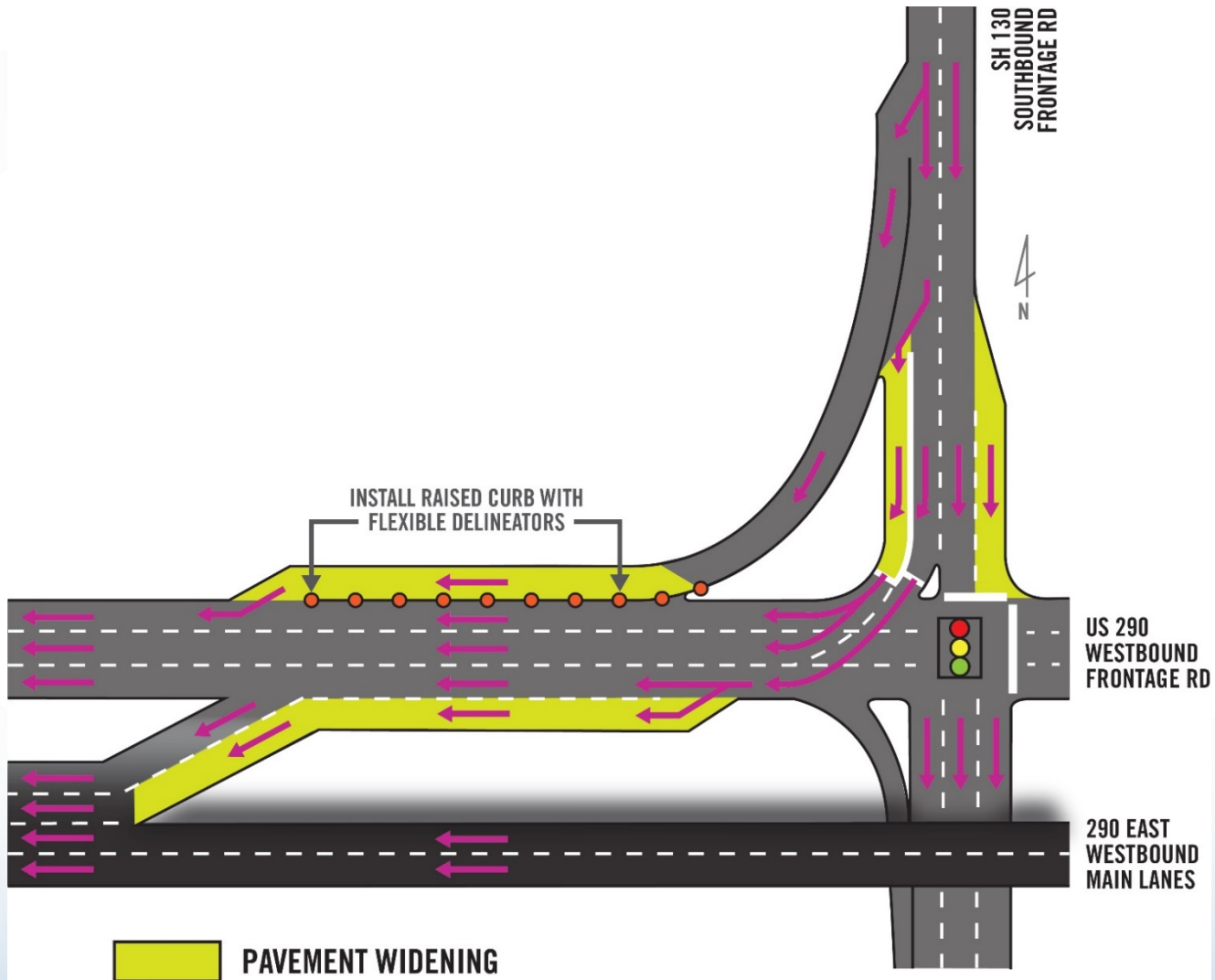


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Location Map – SH 130 at 290 East Intersection



Interim Improvements





Key Dates:

- January 2016 Bid award
- April 2016 construction NTP
- August 2016 substantial completion
- Anticipate final acceptance November 2016

Contractor Aaron Concrete
Contract Price \$2,294,019.58





VIDEO



- **QUESTIONS/COMMENTS**

Update on MoPac South project activities

Agenda Item #11

Dee Anne Heath, Director of External Affairs

October 26, 2016



CENTRAL TEXAS
Regional Mobility Authority

CTRMA's Partnership with Greenroads

Agenda Item #12

Dee Anne Heath, Director of External Affairs

October 26, 2016



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Regional Mobility Authority

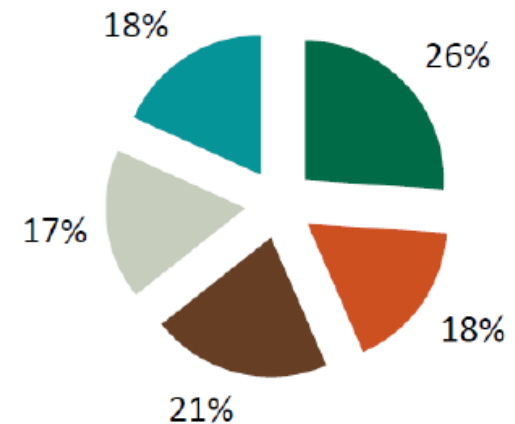


501(c)3 non-profit based in Washington with a big audacious goal, “to fundamentally change the way transportation projects are built”



Third-party, point-based sustainability rating system

- LEED® for buildings, Greenroads® for transportation
- Over 110 projects worldwide



- Environment & Water (EW)
- Construction Activities (CA)
- Materials & Design (MD)
- Utilities & Controls (UC)
- Access & Livability (AL)

Communicating and Quantifying Sustainability



EXAMPLES

Greenroads* Summary
 Presidio Parkway Phase I – Bronze Certified
 San Francisco, CA

Composite Score*	35
Project Requirements	11/11
Environment & Water	3/21
Access & Equity	17/30
Construction Activities	1/14
Materials & Resources	2/23
Pavement Technologies	11/20
Custom Credits	1/10

*Does not include Project Requirements. Score is average of multiple projects.

CE Regional Presidio Parkway Phase I Caltrans/SFCTA – San Francisco, CA

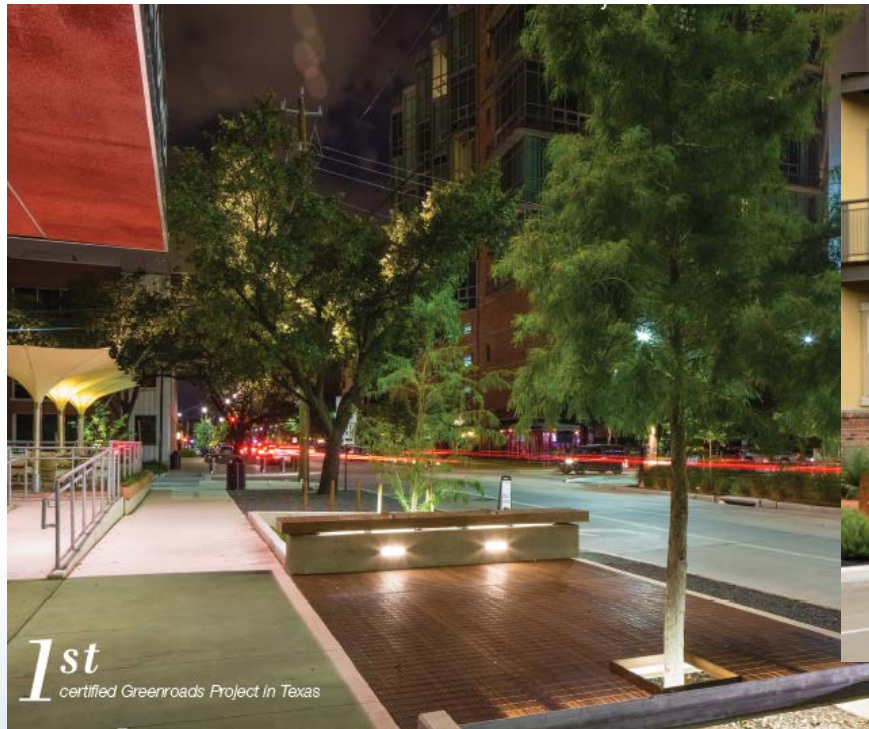


Source: Design Workshop and Greenroads Foundation

Recent Texas Area Participation



- Todd Lane Improvements Project (City of Austin)
- Bagby Street Project (Houston Midtown Redevelopment Authority)



Enhancing Mobility (and Sustainability) Through Innovation



- **Partners in Sustainability**
 - Carma, Bike Austin, Tree Folks, Metropia
- **Building upon our existing sustainable efforts**
 - 14 tons of recycled materials on the 183A project
 - Re-use of 5,000 cy of recycled material used onsite for the 290E Phase 1 project
 - Improving air quality during construction through warm-mix asphalt and off-peak hour hauling.



Warm Mix Asphalt Placement



Soil Retention Blanket for improving Erosion Control



Rock Filter Dam for preserving Water Quality



Largest highway project in the running for Greenroads certification in the US

Greenroads® Pilot Project

183 South Bergstrom Expressway
Austin, TX, USA

Potential Score*	49
Project Requirements	12/12
Environment & Water	8/30
Construction Activities	9/20
Materials & Design	7/24
Utilities & Controls	7/20
Access & Livability	9/21
Creativity & Effort	9/15

*Does not include Project Requirements

Cyber Security Briefing

Agenda Item #13

Greg Mack, Assistant Director of IT & Toll Systems

October 26, 2016



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Regional Mobility Authority



Risk vs. Reward

- What benefit is achieved from the target? (Who)
- What is the level of effort or risk to obtain the benefit?
- What obstacles can be put into place to protect the target?
- Is the level of effort and/or risk greater than the benefit of achieving the target?



Toll Collection System Overview



Type of Data – Host

1

- Transponder ID & associated license plates
- Toll Transactions (date/time/location/toll rate)
- License Plate Images



Type of Data – Host

2

- Transponder ID & associated license plates
- Toll Transactions (date/time/location/toll rate)
- License Plate Images



- **Physical Security**

- Roadside Equipment
 - Equipment is located 17 ½ feet above live traffic
 - Roadside Equipment Cabinets have access control and cameras inside
- CTRMA Field Operations Building
 - Access Control System with badge readers and cameras

**Toll
Collection
System**



Toll Collection System

Network Security

- Wireless Access: None
- Internet Access: limited with Virtual Private Network (username/password & certificate)
- Point to Point connection – Dedicated secure network connection (i.e. Time Warner)
- Firewall: Yes
- Safeguards: Virus Protection, spyware detection

Texas IOPHUB Overview



- Managed by: ETCC / HCTRA
- Internet Access: Yes / VPN only
- Firewall: Yes
- Safeguards: Password access / Password policies / Pre-Defined Routes
- Type of Data Stored: Transponder ID & associated license plates, Toll Transactions (date/time/location/toll rate)

**Texas
Interop
Partners**

Pay By Mail System



- Managed by: Municipal Services Bureau
- Internet Access: restricted to specific websites
- Wireless: None
- Firewall: Yes
- Safeguards: Payment Card Industry Compliance – Level 2 – Quarterly 3rd party network penetration scans
- Type of Data Stored: Customer name / address / PbM transactions / DMV info / images / payment receipts – *no credit card data stored*

**Pay By Mail
System**

Next Steps



- Engage a 3rd party to perform a security system audit
- Review recommendations from audit and develop action plan

Executive Director's Report. Discussion of Williamson County Resolution regarding transportation projects

Agenda Item #14

Mike Heiligenstein, Executive Director

October 26, 2016



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Regional Mobility Authority

Executive Session

Agenda Items #15-17

October 26, 2016



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Regional Mobility Authority

Reconvene in Open Session

October 26, 2016



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Regional Mobility Authority

Adjourn Meeting

Agenda Item #18

October 26, 2016



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