

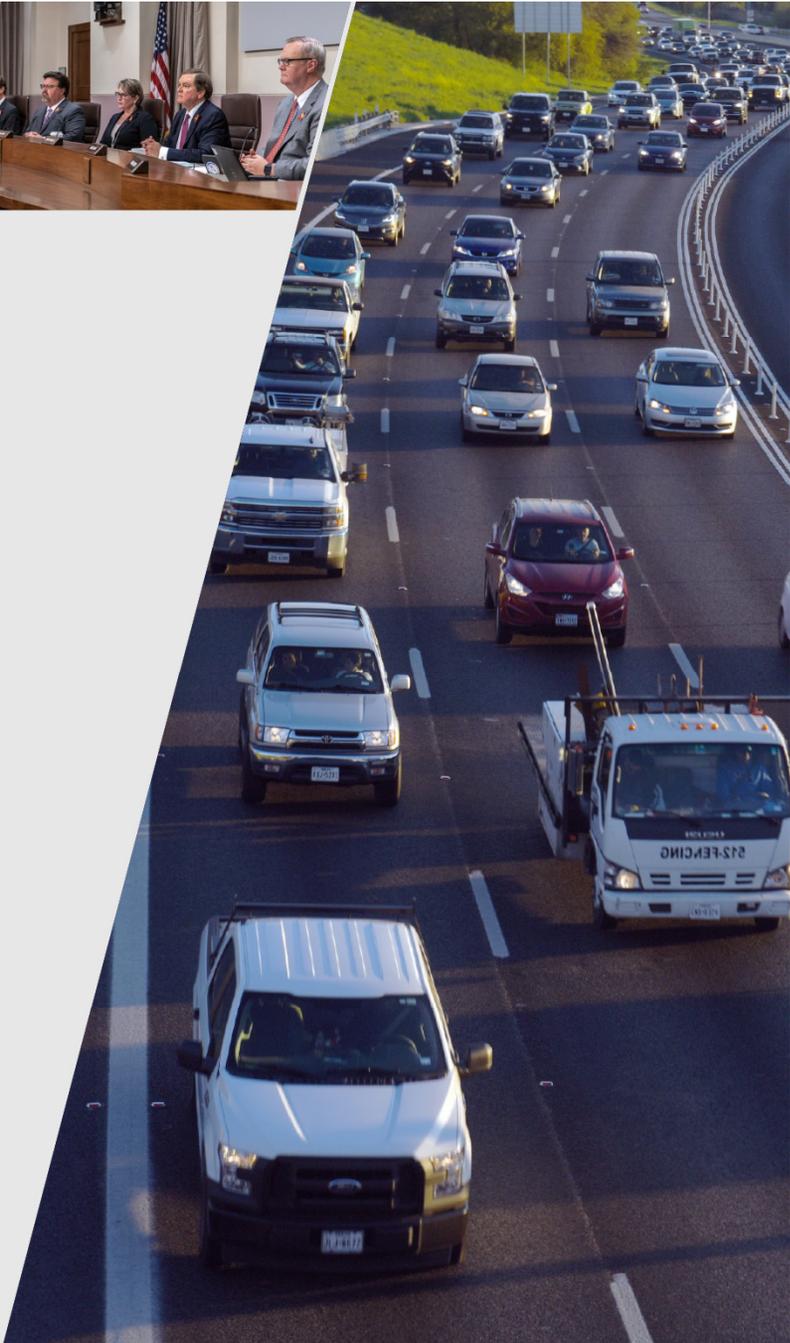


# Mobility35 Overview

Town Hall Meeting – Austin District

Susan Fraser, P.E., CFM

Mobility35 Program Manager



July 14, 2020

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# **MOBILITY35 PROGRAM OVERVIEW**



## Mobility35 Goals and Objectives



- Optimize the existing roadway
- Enhance safety
- Increase capacity
- Minimize need for additional right of way
- Manage traffic better
- Improve east/west connectivity
- Improve compatibility with neighborhoods
- Enhance bicycle, pedestrian, and transit-user options



Northbound braided entrance and exit ramps beam set



Northbound braided ramps completed

## Mobility35 Snapshot (Active Projects)



- Williamson County
  - 4 projects in schematic/environmental
  - 1 projects in PS&E
  - 4 projects in construction
- Travis County
  - 3 projects in schematic/environmental
  - 2 project in PS&E
  - 4 projects in construction
- Hays County
  - 1 project in schematic/environmental
  - 1 projects in PS&E
  - 3 project in construction

<http://www.my35.org/capital.htm>





## Mobility35 Team Structure

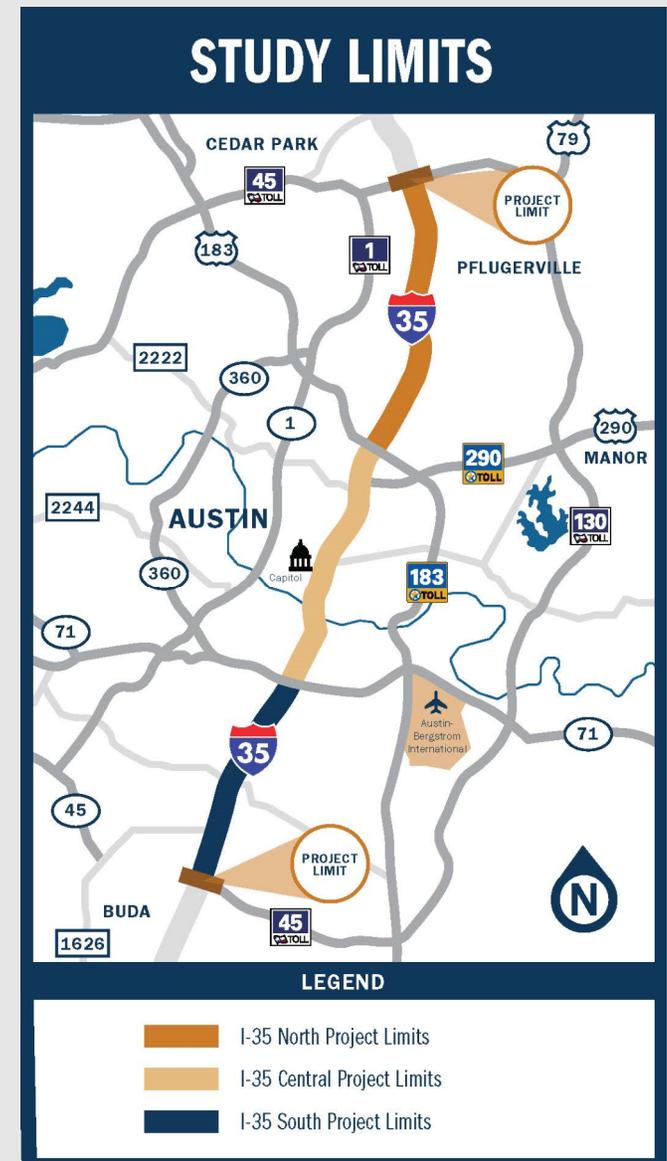
- General Engineering Consultants (GEC) Operations
  - Extension of TxDOT staff
  - Co-located and off-site personnel
  - Approximately 30 FTEs
  
- General Engineering Consultants
  - HNTB: 2012-2017
  - JMT/Jacobs & AECOM: 2017-2020
  - Jacobs: 2020-2024

# CAPITAL EXPRESS OVERVIEW

## About Capital Express Program



- Three stand alone projects between SH 45 North and SH 45 Southeast – North, Central and South
  - 28 miles of highway
  - North and South project design is underway
  - Central project design about to commence



# Capital Express North Project



- **Limits:** SH 45 North to US 290 East
- **Length:** 11.5 miles
- **Scope:**
  - Construct one non-tolled managed lane in each direction
  - Reconstruct bridges
  - Add diverging diamond intersection at Wells Branch Parkway
  - Improve bicycle and pedestrian accommodations
- **Estimated construction cost:** \$400 million
- **Anticipated construction start:** 2022



# Capital Express South Project



- **Limits:** SH 71/Ben White Boulevard to SH 45 Southeast
- **Length:** 8 miles
- **Details:**
  - Construct two non-tolled managed lanes in each direction
  - Additional safety and mobility improvements
  - Improve bicycle and pedestrian accommodations
- **Estimated construction cost:** \$300 million
- **Anticipated construction start:** 2022



# Capital Express Central Project



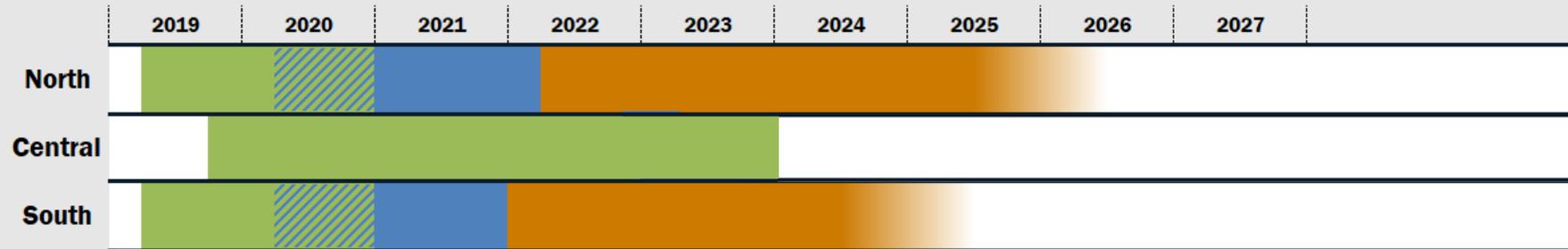
- **Limits:** US 290 East to SH 71/Ben White Boulevard
- **Length:** 7.9 miles
- **Scope:**
  - Construct two non-tolled managed lanes in each direction
  - Reconstruct I-35 from Airport Blvd to south of Lady Bird Lake (bridge not included in cost)
  - Add bicycle and pedestrian accommodations
- **Estimated construction cost:** \$4.9 billion
- **Anticipated construction start:** 2025



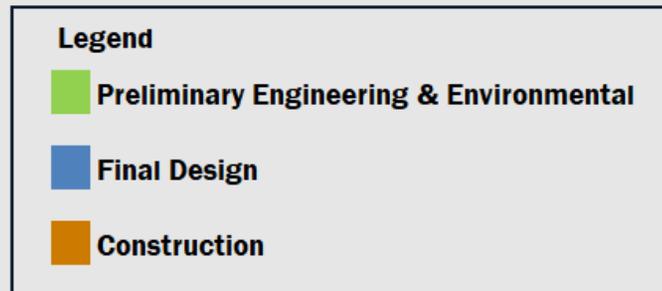


- **Analyzing tunnel concepts with a focus on minimizing where possible**
  
- **Evaluation of concepts will consider:**
  - Geotechnical and ground water issues
  - Potential conflicts with drainage and other underground features such as utilities
  - First Responder access and incident protocols for Fire and EMS personnel
  - Monitoring and Fire Suppression Systems
  - Active systems such as Ventilation and Back-up Power Generation
  - Security
  - Special drainage
  - Construction methods, Constructability and Traffic Control impacts
  - Structural dimensions of the tunnel shell and possible impacts to existing foundations in close proximity
  - Construction cost and future operation and maintenance

# I-35 Capital Express Schedule



*Preliminary Schedule – Subject to Change*



# Capital Express Funding Status

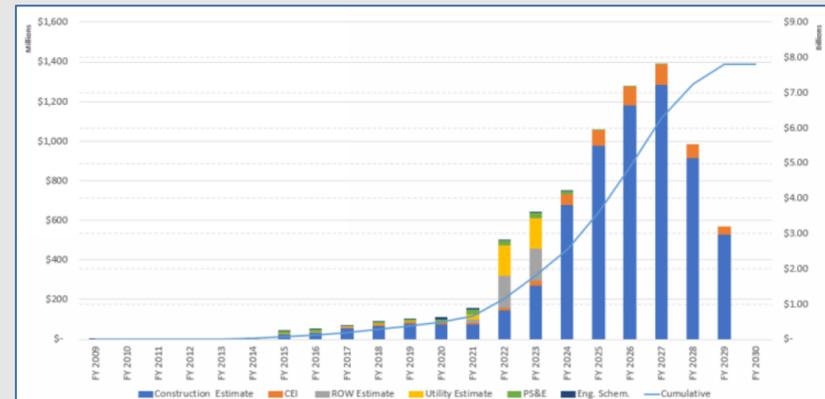


- CapEx North & South Funding\*
  - North: \$400M construction
  - South: \$300M construction

- CapEx Central Funding Plan

- \$4.9B construction
  - \$560 million existing allocation\*
  - \$3.4 billion additional allocation (2020 UTP amendment on April 30, 2020)
  - CAMPO approved reprioritization of \$633 million
  - Unfunded amount: Proposed 2021 UTP allocation of \$307 million

\*2020 UTP on Aug. 29, 2019

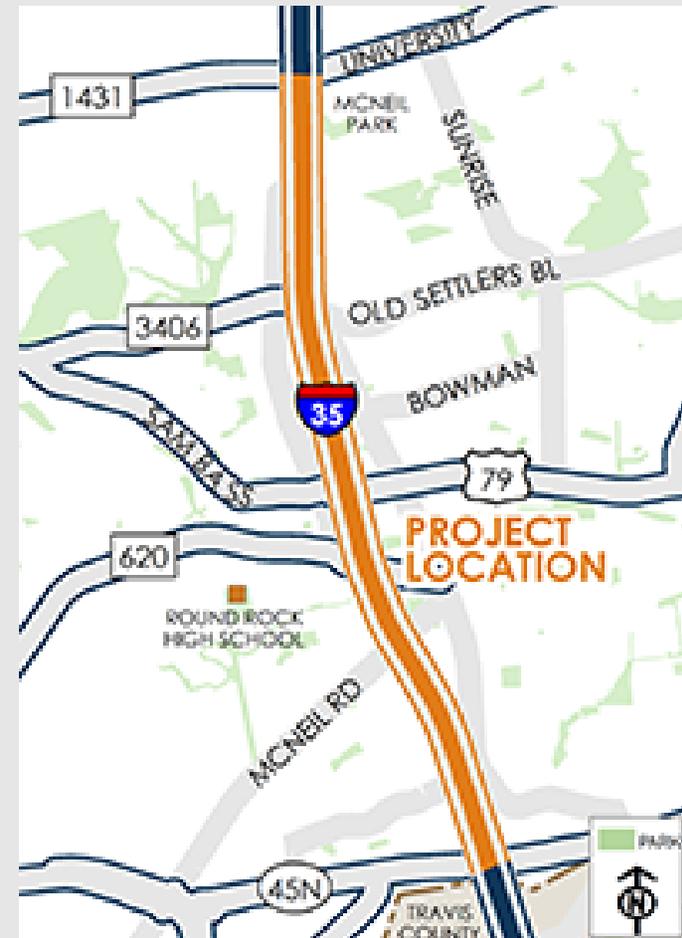


# OTHER UPCOMING PROJECTS

## I-35 from RM 1431 to SH 45N



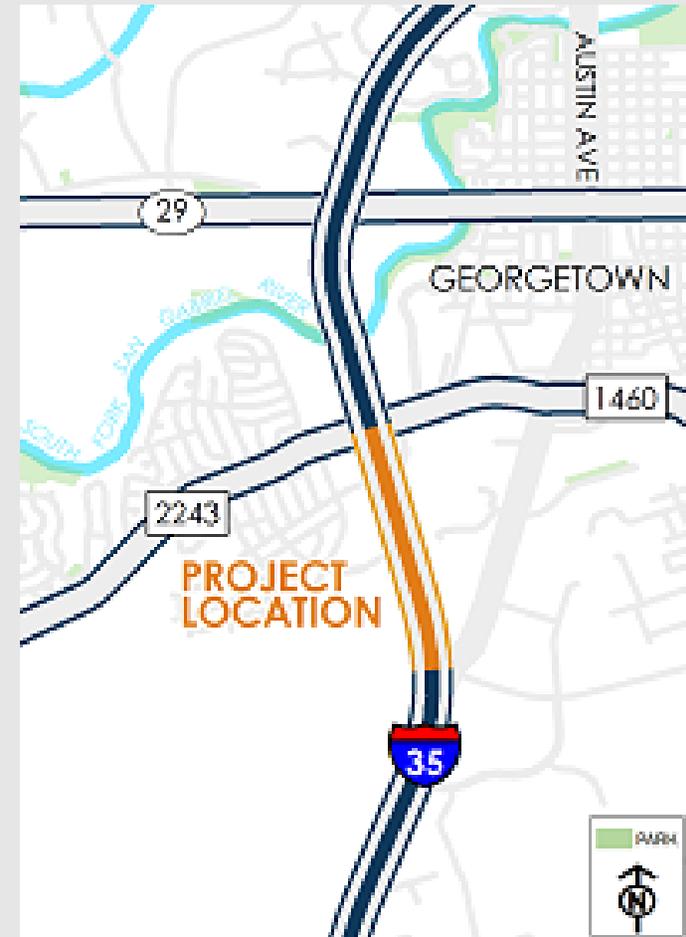
- **Services:** Schematic & environmental
- **Contract Type:** Specific deliverable
- **Anticipated Contract Execution:** December 2020
- **Limits:** RM 1431 to SH 45N
- **Length:** Approx. 6 miles
- **Scope:**
  - Construct one non-tolled managed lane in each direction
  - Ramp and local access improvements
  - Enhance bicycle and pedestrian accommodations
  - Complete I-35 at SH 45N direct connectors



## I-35 from RM 2243 to SE Inner Loop



- **Services:** Plans, specifications and estimates (PS&E)
- **Contract Type:** TBD
- **Anticipated Contract Execution:** 2021
- **Limits:** RM 2243 to SE Inner Loop
- **Length:** 0.93 miles
- **Scope:**
  - Replace and improve bridge at RM 2243
  - Improve existing SB I-35 frontage road
  - Add braided entrance/exit ramps along the SB I-35 frontage road
  - Provide a NB to SB U-turn bridge
  - Improve bicycle and pedestrian sidewalks and paths



## Additional Project Development and Services

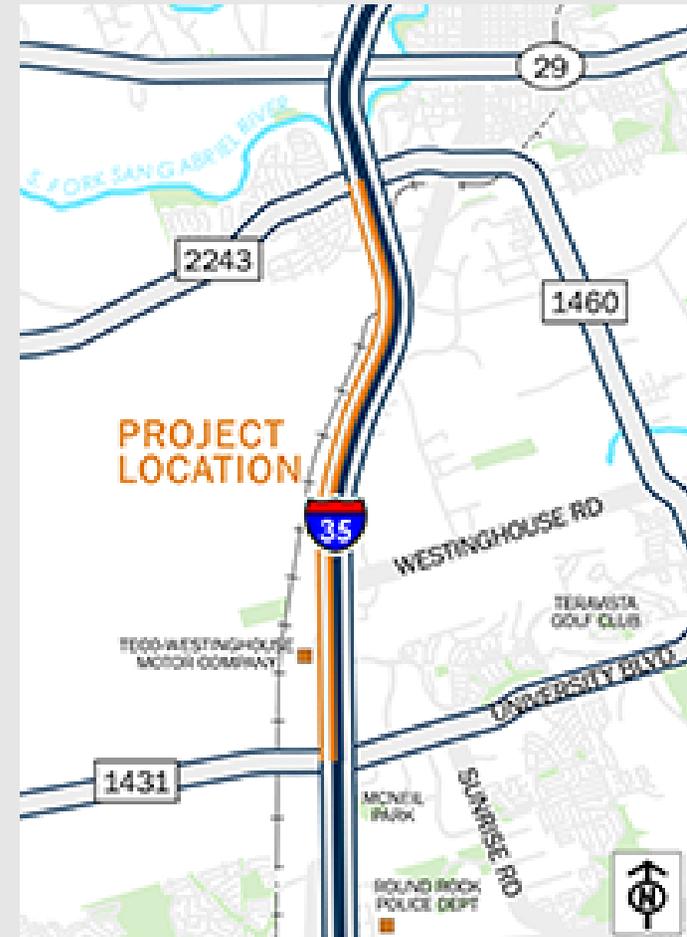


### ■ SE Inner Loop to RM 1431 (SB)/Westinghouse Road

- **Services:** PS&E in 2023
- **Scope:**
  - Replace Westinghouse Road bridge with a new I-35 bridge
  - Reverse entrance/exit ramps
  - Frontage road, bicycle and pedestrian improvements

### ■ Additional future services for Program Projects:

- CEI
- ROW Acquisition
- Geotechnical
- SUE



# **PROGRAM UPDATES – PRACTICES & PROCEDURES**

## Program Updates – Practices and Procedures



- Project Management Plans and Quality Management Plans
  - Incorporate Mobility35 **Program** Management Plan (PMP) procedures in Project Development Engineer (PDE) **Project** Management Plan
  - Recommend using TxDOT Project Management Plan templates if needed
    - Visit TxDOT Project and Portfolio Management section webpage

<https://www.txdot.gov/inside-txdot/division/transportation-programs/ppm.html>

- Use tools to facilitate decision making and define roles and responsibilities (e.g. RACI Matrix, escalation ladders)



**R – Responsible**  
**A – Accountable**  
**C – Consulted**  
**I – Informed**



- **Mobility35 Schedule Management**
  - Mobility35 Program Schedule is a roll-up of PDE project schedules used for portfolio planning and milestone tracking
- **DEVELOP** P6 consultant schedule per Mobility35 PMP procedures
  - Follows *Schedule Guide for TxDOT Transportation Projects*
  - Use templates to develop baseline schedule
  - Have clearly defined activities and milestones with **achievable** durations and **appropriate** logical sequence
  - Add activities for GEC and TxDOT reviews
  - Include appropriate milestones (e.g. Utility Clearance, ROW Clearance, Environmental Approval)

### Schedule Guide for TxDOT Transportation Projects

Transportation  
Programs  
Division – Project  
and Portfolio  
Management Section  
(TPD-PPM)  
Texas Department of  
Transportation Revised July 3, 2018



- **MAINTAIN** P6 schedule per TxDOT Mobility35 PMP procedures
  - Submit monthly with proactive monitoring of key deliverables/milestones, progress, and schedule adjustments
  - Complete PDE Schedule Conformance Checklist to ensure quality
  - Communicate slippage of design deadlines and delay to “Ready to Let” and identify opportunities for schedule recovery
  - Adjust schedules after execution of supplemental Master Contract or Supplemental Work Authorization when scope changes

PDE Schedule  
Submission (3<sup>rd</sup>  
Thursday each month)



GEC Scheduler and  
PDE Coordinator  
Review



Update Mobility35  
Program Schedule



### Areas of Improvement

- Consultant flexibility with resources including phasing design to advance work that can move forward while decisions are made on other areas
- Ownership of project schedule
- Project file management: District plans to introduce a new Office365 SharePoint environment in 2020 for PDE use

### Areas of Exceeding Expectations

- Partnership, teamwork and communication between consultants especially when there is overlap on schematic and PS&E
- Recent construction bids were within 2.5% of engineering cost estimates

**Thank you for your continued involvement and support of the Mobility35 Program!**



## MORE INFORMATION AVAILABLE AT:

Name	Website
My35 – Capital Region	<a href="http://my35.org/capital.htm">http://my35.org/capital.htm</a>
Mobility35 – Capital Area Construction Information	<a href="https://my35construction.org/">https://my35construction.org/</a>
My35 – Capital Express Program	<a href="https://my35CapEx.com">https://my35CapEx.com</a>