



I-45 North Houston Highway Improvement Project (NHHIP) Segments 2A and 3C-4 PS&E Pre-RFP Meeting

➤ **Houston District:**

- Grady Mapes, P.E.– CDA Program Director – CST Member
- Brett McLeod, P.E. – Houston District Design Director – CST Member
- Milad Ajir, P.E. –Transportation Engineer (CDA) – CST Member
- Linda Lindsay, P.E.- Transportation Engineer (CCA) - CST Member (3C-4 only)
- Vipinkumar Sumani, P.E. – Transportation Engineer (CCA) – CST Member (2A only)

■ **PEPS Houston Service Center:**

- John Mosaffa, P.E. - Transportation Engineer (Procurement Engineer)
- Kimlinh V. Nguyen, P.E. – PEPS Houston Service Center Section Director

Housekeeping

1. Be sure to provide your information on the sign-in sheet.
2. Please mute your phones.
3. You may ask questions at the end of the presentation.

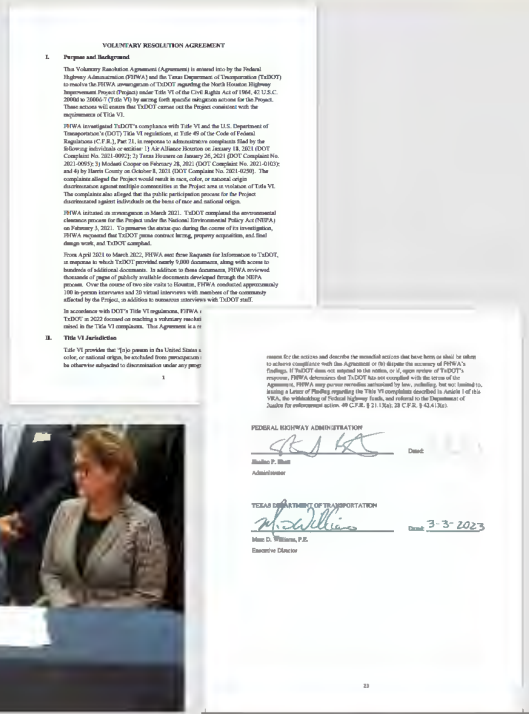
Ground Rules

- 1. Do Not contact CST Members regarding both procurements.**
- 2. This presentation is for INFORMATIONAL PURPOSES ONLY.**
- 3. The advertised RFP will dictate the final work categories. Read and comply with the RFP requirements.**

NHHIP Overview

NHHIP – STATUS UPDATE

- Voluntary Resolution Agreement (VRA) with FHWA
 - March 5, 2023
- Memorandum of Understanding with Harris County resolving NEPA lawsuit
 - December 22, 2022
 - Lawsuit was dismissed January 2023
- Memorandum of Understanding with the City of Houston
 - December 19, 2022
- NHHIP remains funded in the 2023 UTP with \$5 billion
 - Including \$490.7M as approved by the TPC



WHAT IS THE VRA?

- The Voluntary Resolution Agreement (VRA) is an understanding by and between the Federal Highway Administration (FHWA) and the Texas Department of Transportation (TxDOT)
- Resolves the FHWA investigation of TxDOT regarding the North Houston Highway Improvement Project (Project) under Title VI of the Civil Rights Act of 1964 (Title VI) by setting forth specific mitigation actions for the Project
 - **Lifts pause**
 - No Title VI violations identified in VRA
 - TxDOT to resume all project development activities.
- Provides specific, enforceable timelines and monitoring by FHWA to ensure TxDOT carries out the Project consistent with the requirements of Title VI
- FHWA has concluded review of TxDOT's responsibilities under the National Environmental Policy Act (NEPA) also with no findings



TxDOT ACTIONS COMMITTED TO IN VRA

Performed in addition to and/or in compliance with mitigation actions already committed to by TxDOT, as contained within the Record of Decision:

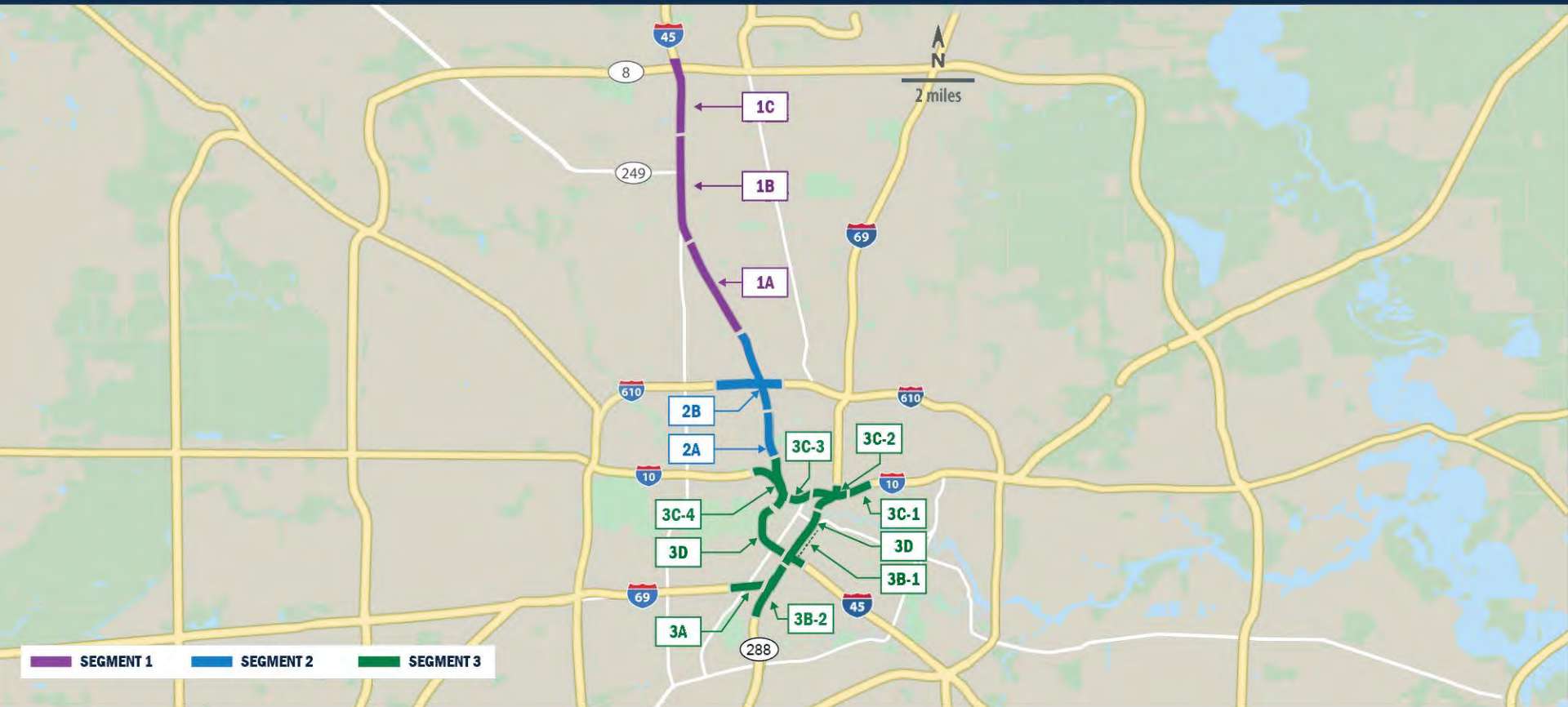
- Twice Annual Public Meetings through Design and Construction
- Mitigating Displacements, Relocations, Housing and other Community Impacts
- Drainage Improvements to Reduce Flooding
- Parks, Open Space, Trails, Pedestrian and Bicycle Facilities
- Community Access During Construction
- Highway Footprint Reduction
- Structural Highway Caps
- Air Quality Mitigation
- Meaningful Access for Persons with Limited English Proficiency (LEP)



I-45 NHHIP

TOP 100 MOST
CONGESTED
2022 RANKINGS
TEXAS A&M TRANSPORTATION INSTITUTE

4, 5, 8, 10, 13, 15
16, 22, 29, 42, 72



Segment 2A Project Information

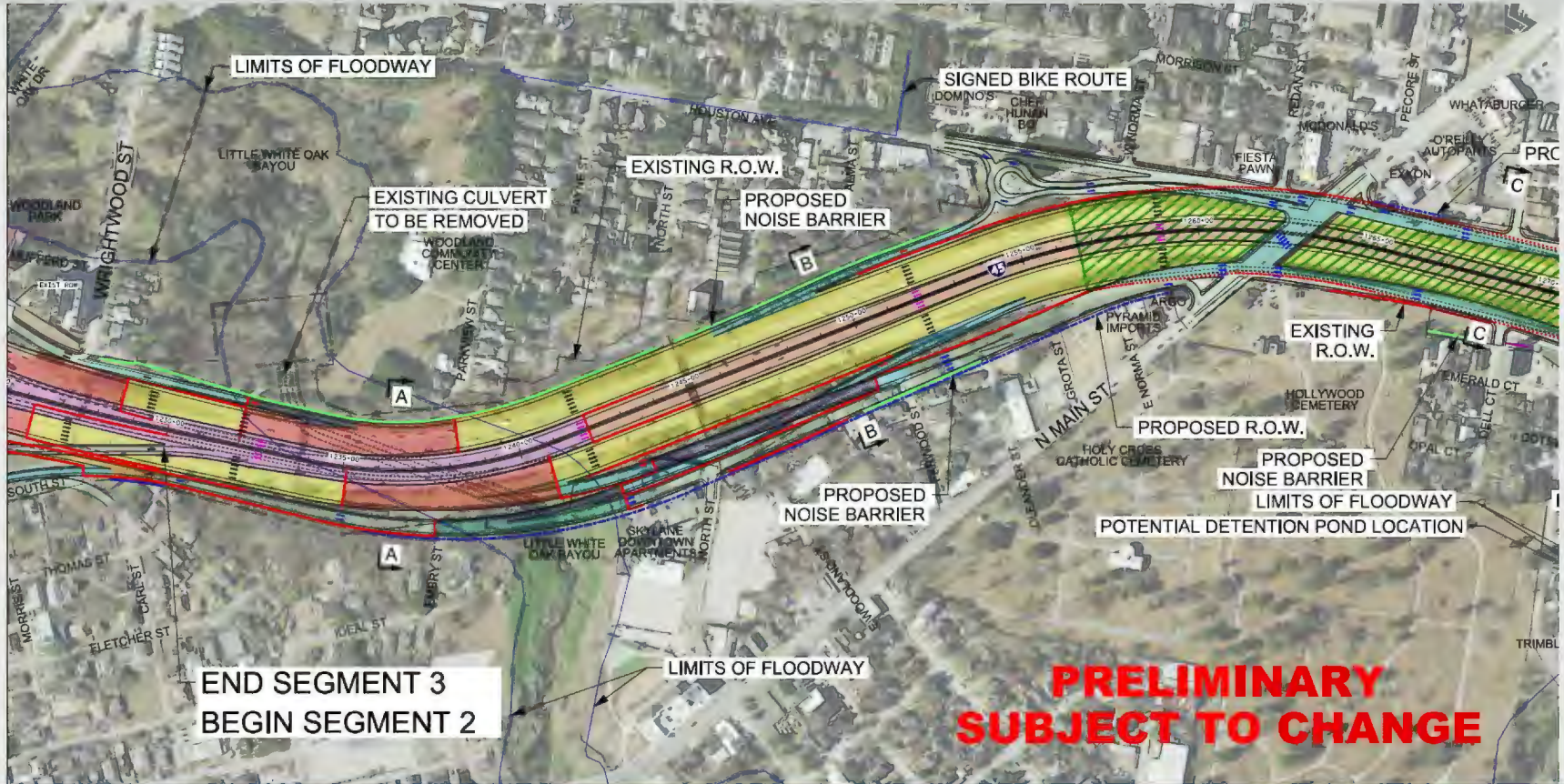
- Hwy: IH 45
- Limits: N. of IH 10 to N. of Cavalcade St
- Scope: Reconstruction of mainlanes, frontage roads, and intersections and construct 4-additional managed lanes
- Est. Cost: \$436,728,193.00
- Estimated Letting: November 2027

Segment 2A Project Location and Limits

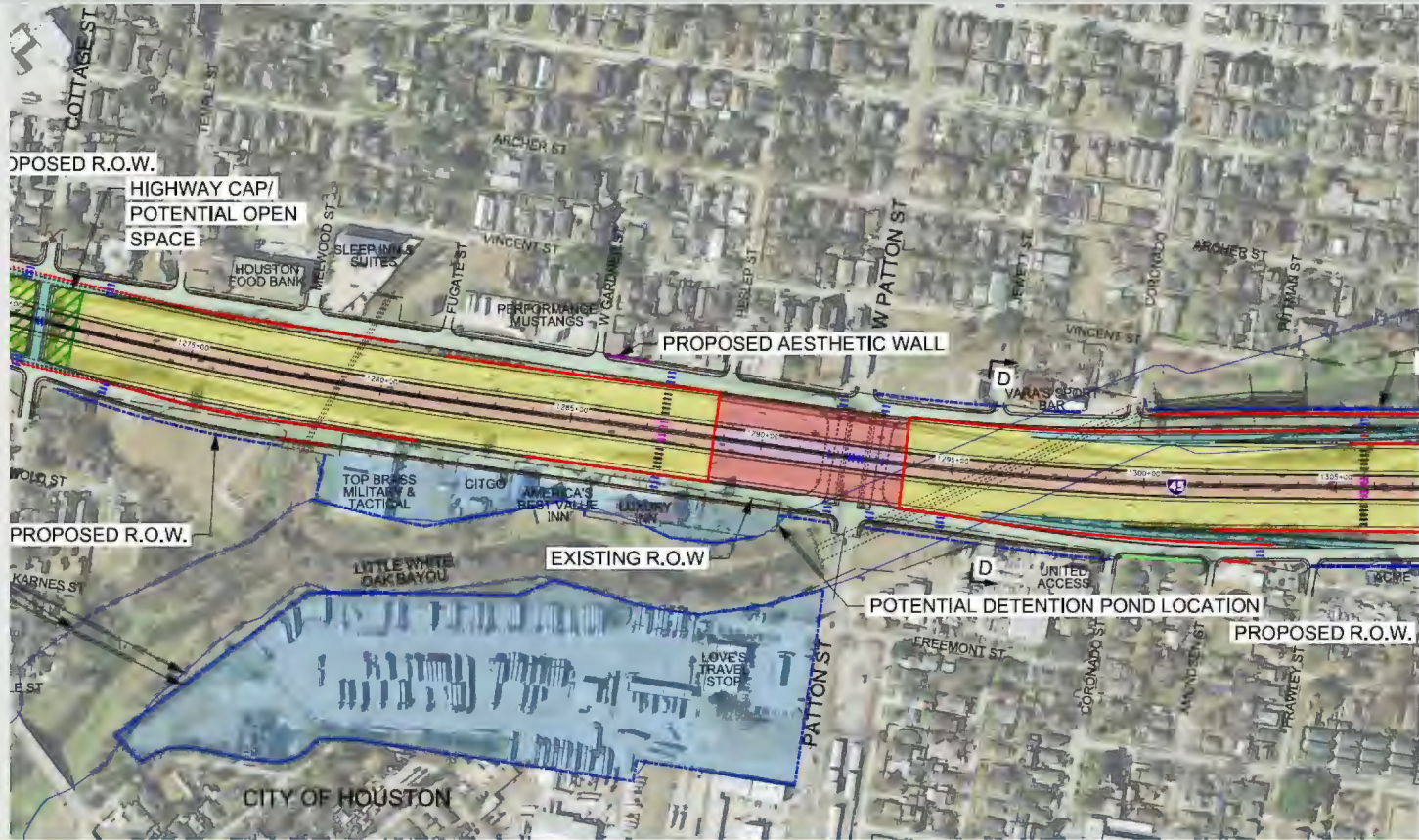


*** BEGIN OF PROJECT LIMITS UNDER EVALUATION**

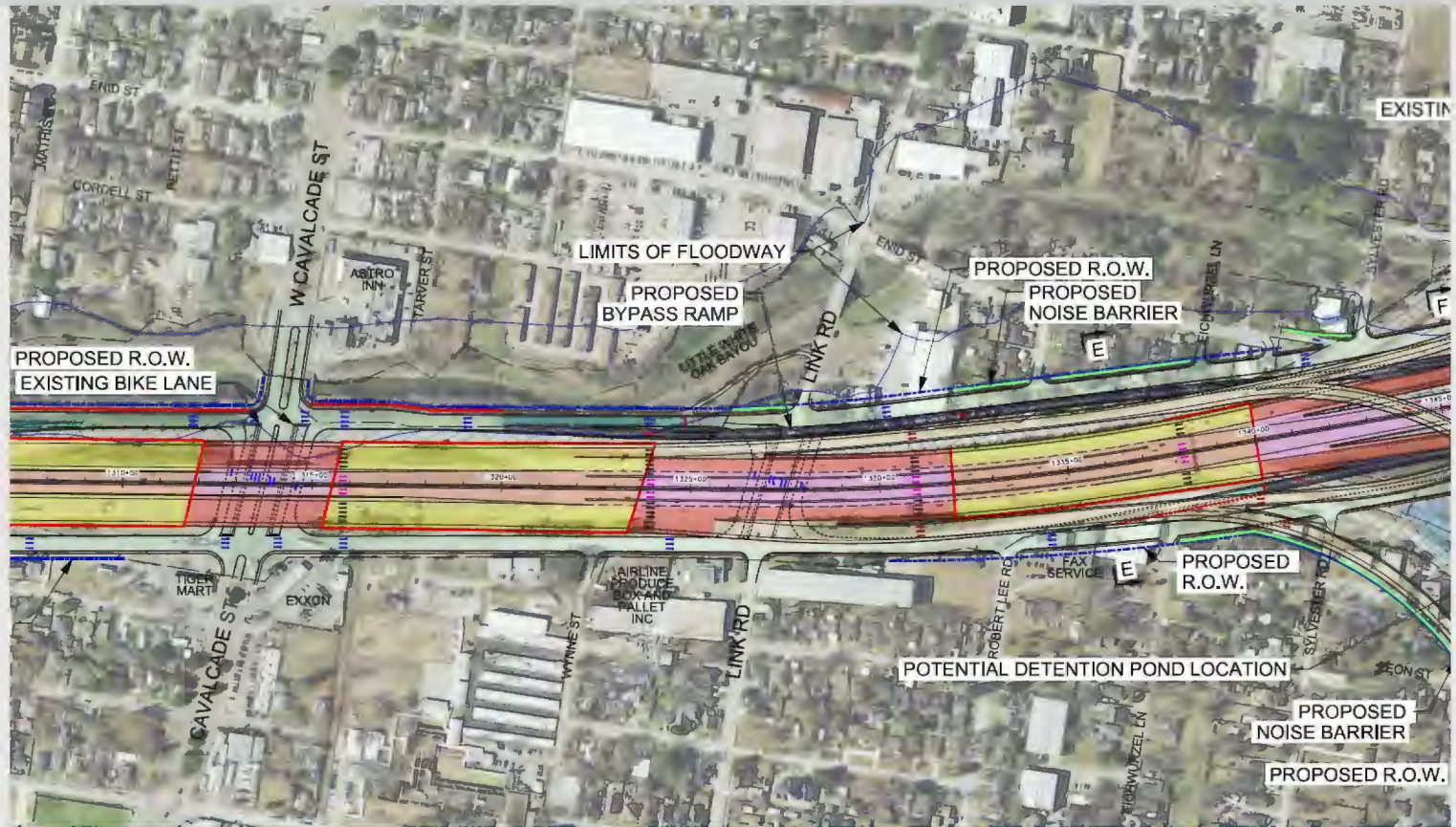
Segment 2A Project Schematic



Segment 2A Project Schematic



Segment 2A Project Schematic



Segment 2A End Limits



Segment 2A Schematic Proposed Changes Under Evaluation

- Stream crossings changed from culverts to open bridges
- General purpose Direct Connector tie-in to I-45 mainlanes instead of frontage road (I-10 EB to I-45 NB)
- Southern project limit at Segment 3C-4 location
- Addition of SB Exit Ramp to N. Main and NB Entrance Ramp from N. Main
- Removal of Cottage Street crossover and addition of U-turn at north side N. Main
- Proposed bike trail connections along Little White Oak Bayou
- Potential pedestrian bridge over I-45 at North Street
- Reconfiguration of Houston Ave and I-45 SB Frontage Road interface
- Pump Station and Detention Pond locations

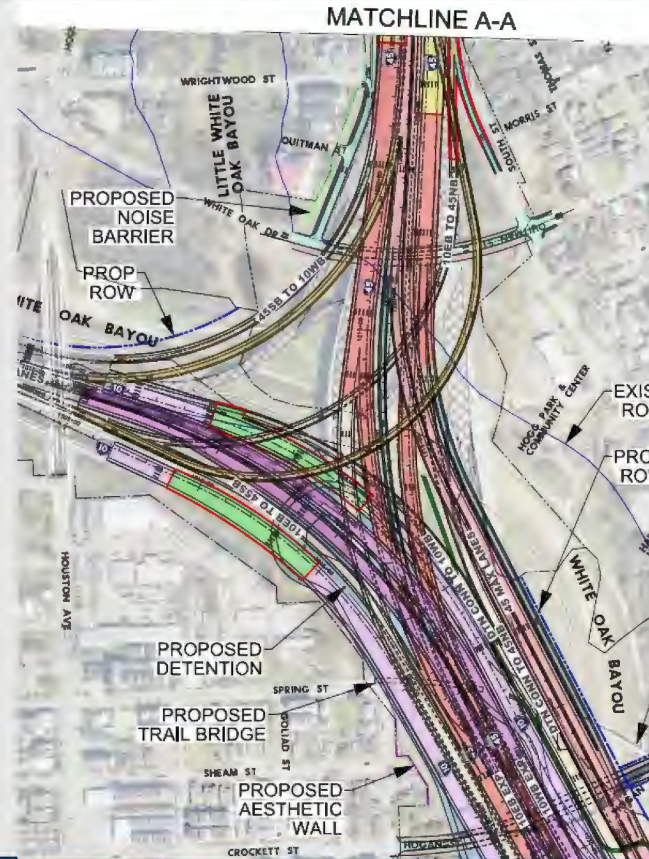
Segment 3C-4 Project Information

- Hwy: IH 45
- Limits: at IH 10 West, and from west of Houston Avenue to West of White Oak Bayou
- Scope: Reconstruction of main lanes, direct connectors, ramps, and cross streets and construction of four IH10 express lanes and four IH 45 max lanes
- Est. Cost: \$785,995,370
- Estimated Letting: February 2028

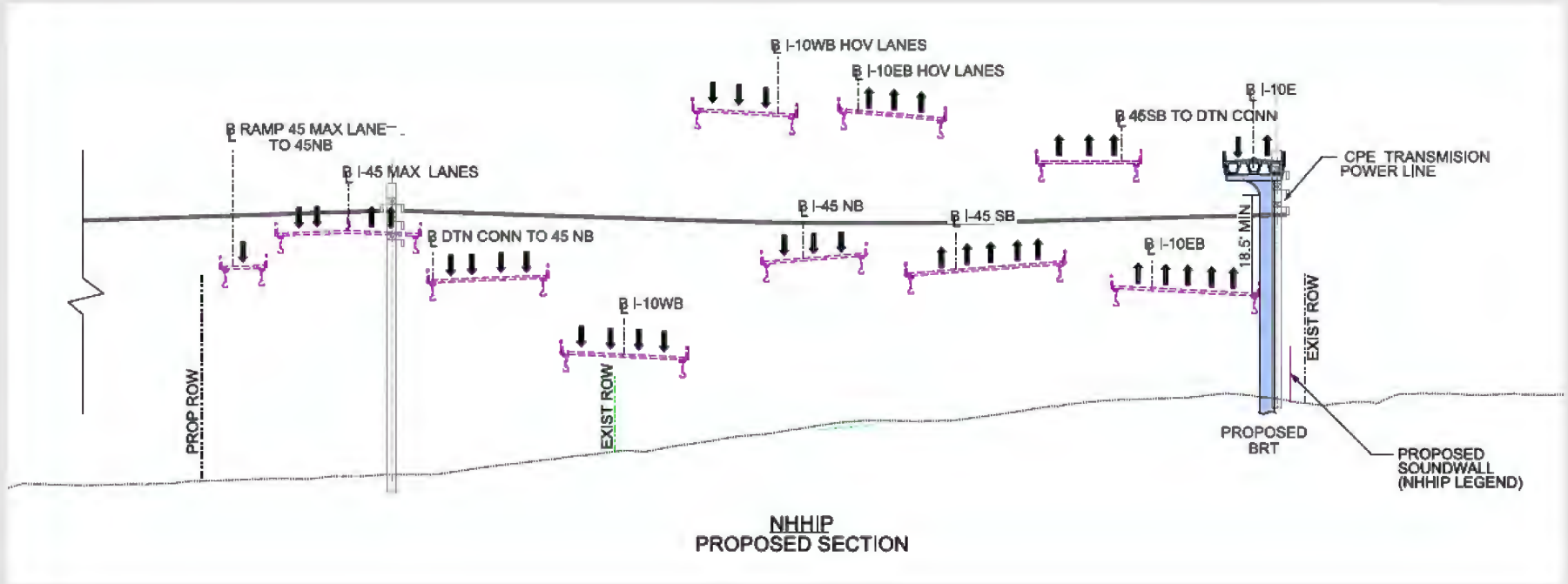
Segment 3C-4 Project Information (IH 45 Transition)



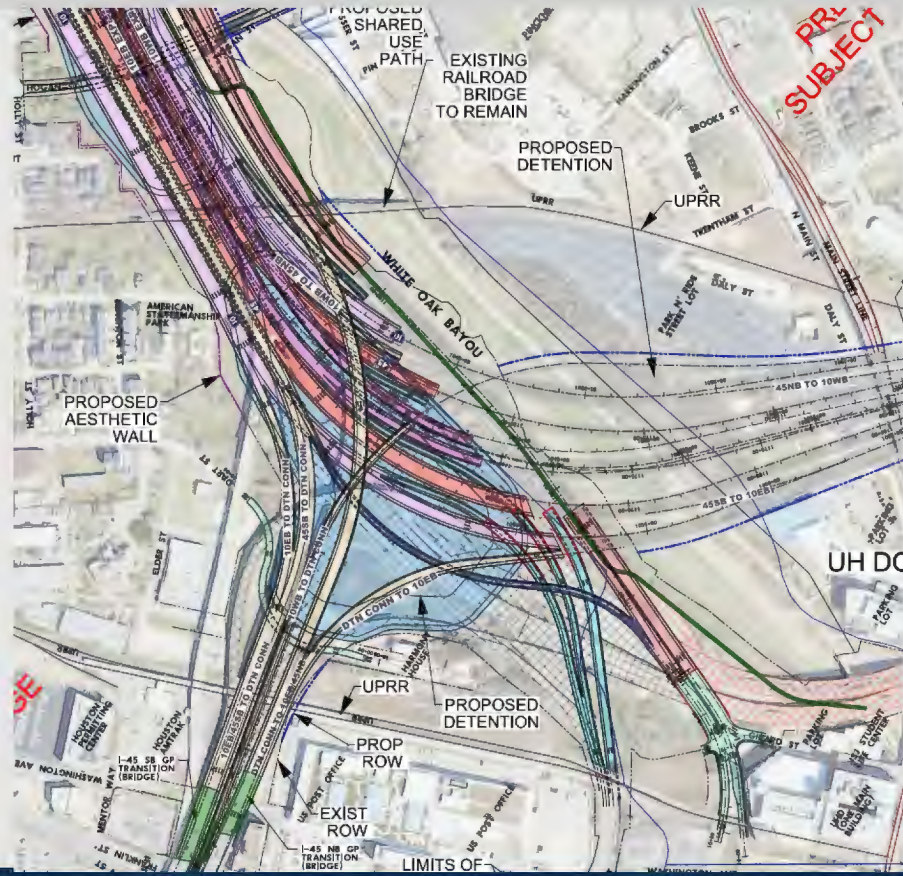
Segment 3C-4 Project Information



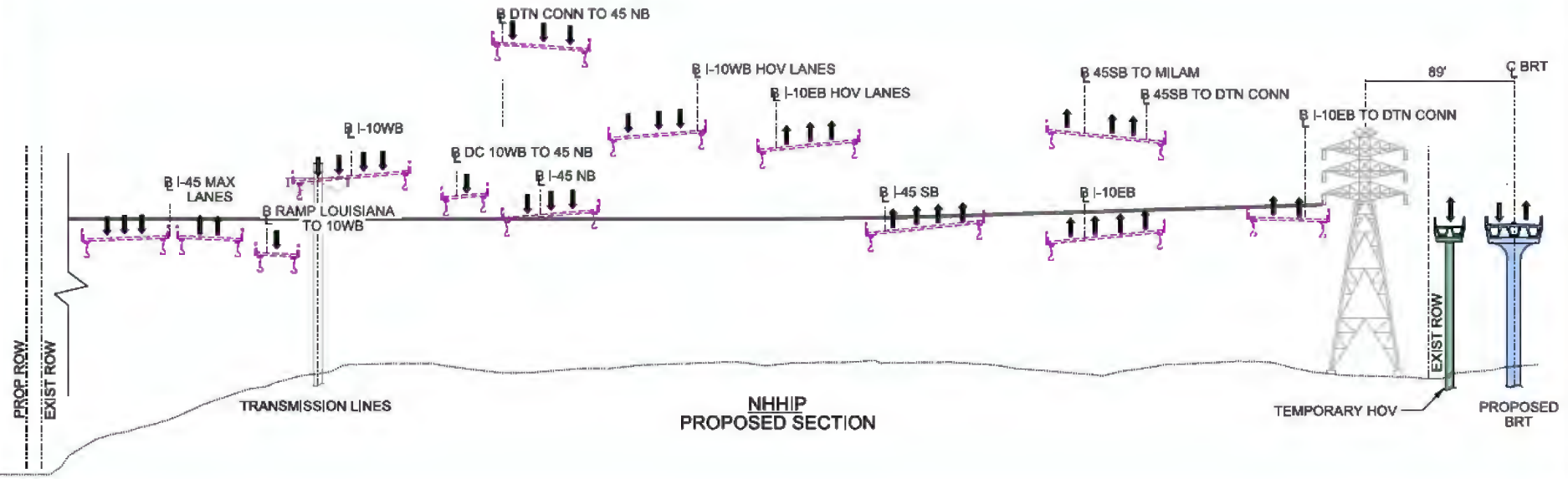
Segment 3C-4 Project Information (CNP Crossing at Spring St)



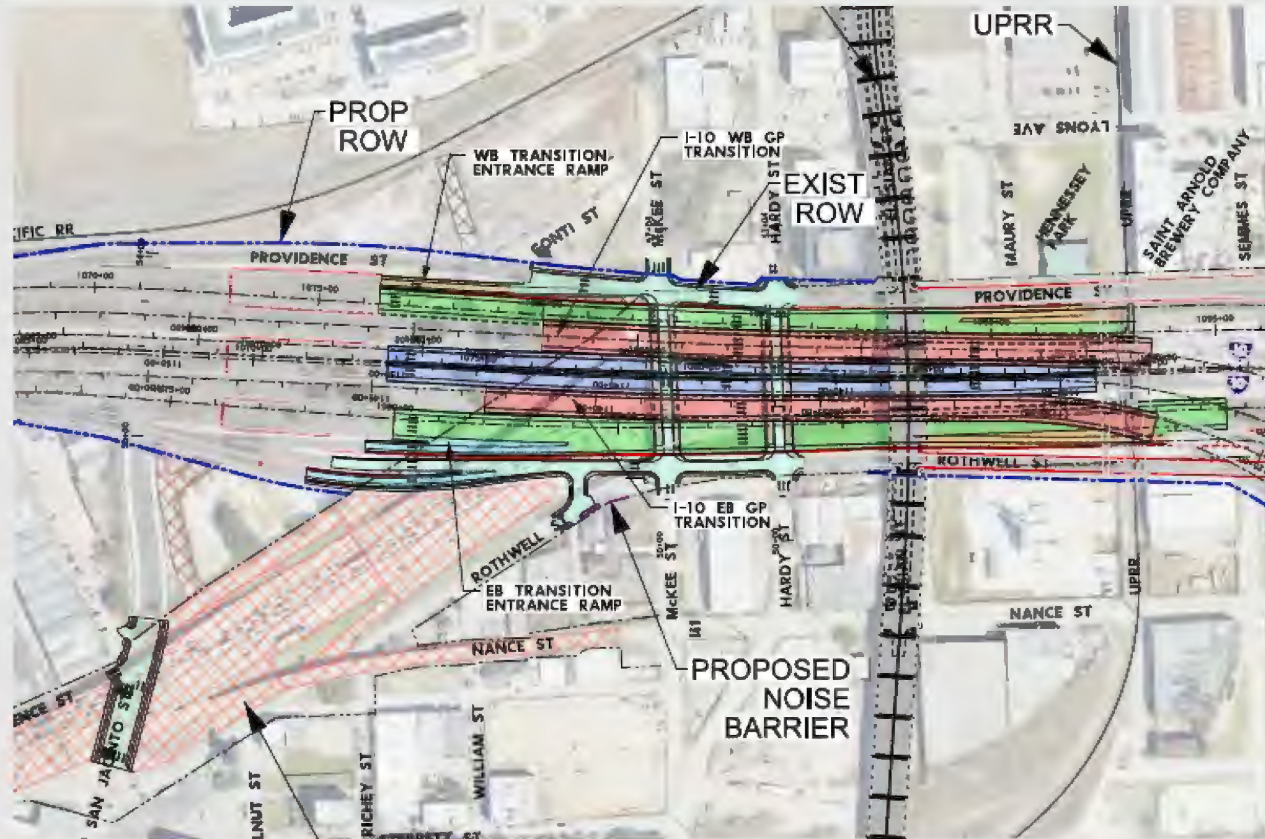
Segment 3C-4 Project Information



Segment 3C-4 Project Information (CNP Conflict at Hogan St)



Segment 3C-4 Project Information



Contract Information

- Federally Funded Process with Interviews – DBE Goal
- 2 SD PS&E Contracts for Segments:
 - NHHIP 2A
 - NHHIP 3C-4

Work Categories – 2A (Preliminary)

Cat. No.	Category Name
1.8.1	Public Involvement
1.9.1	Geographic Information System (GIS) and Data Analysis
2.14.1	Environmental Document Preparation
3.2.1	Route Studies & Schematic Design
4.2.1	Roadway Design
4.5.1	Constructability Review
4.6.1	3-D Visualization and Animation Services
5.2.1	Bridge Design
5.5.1	Bridge & Non-Bridge Class Culvert and Inlet Design
5.6.1	Structural Engineering for Overhead Sign Supports
7.1.1	Traffic Engineering Studies
7.4.1	Traffic Control Systems Analysis, Design & Implementation
7.5.1	Intelligent Transportation System
8.1.1	Signing, Pavement Marking & Channelization

Work Categories – 2A (Preliminary) – Cont.

Cat. No.	Category Name
8.2.1	Illumination
8.3.1	Signalization
8.4.1	ITS Control Systems Analysis, Design & Implementation
9.2.1	Active Transportation Planning
9.3.1	Pedestrian Facility Design
9.3.2	Accessibility Design
9.4.1	Bikeway Design
10.2.1	Roadway Hydraulic Design
10.3.1	Bridge Hydraulic Design
10.4.1	Storm Water Pump Station-Hydraulic Design
10.4.2	Pump Stations-Electrical
10.4.3	Pump Stations-Structures
10.5.1	Bridge Scour Evaluations And Analysis
14.1.1	Soil Exploration

Work Categories – 2A (Preliminary) – Cont.

Cat. No.	Category Name
14.2.1	Geotechnical Testing
14.3.1	Transportation Foundation Studies
14.5.1	Evaluation & Design of Geotechnical Related Structures
15.1.1	Right of Way Surveys
15.2.1	Design Survey
18.2.1	Subsurface Utility Engineering (Utility Eng. Investigation)
18.3.1	Utility Adjustment Coordination
18.4.1	Utility Engineering
18.7.1	Utility Relocation Design
21.6.1	Condemnation Support Services
NLC-1	Fire and Life Safety Analysis and Design (Tunnel)

Work Categories – 3C-4 (Preliminary)

Cat. No.	Category Name
1.8.1	Public Involvement
1.9.1	Geographic Information System (GIS) and Data Analysis
2.3.1	Wetland Delineation
2.4.1	Nationwide Permit
2.4.2	Clean Water Act Sec. 404 Permits
2.4.3	U.S. Coast G. & U.S. Army Corps Of Engr. Permits
2.14.1	Environmental Document Preparation
3.2.1	Route Studies & Schematic Design
4.2.1	Roadway Design
4.4.1	Freeway Interchanges
4.5.1	Constructability Review
4.6.1	3-D Visualization and Animation Services
4.7.1	Traffic Safety Analysis
5.2.1	Bridge Design
5.3.1	Multi-Level Interchange Design
5.5.1	Bridge & Non-Bridge Class Culvert and Inlet Design
5.6.1	Structural Engineering for Overhead Sign Supports
7.1.1	Traffic Engineering Studies
7.4.1	Traffic Control Systems Analysis, Design & Implementation
7.5.1	Intelligent Transportation System
8.1.1	Signing, Pavement Marking & Channelization

Work Categories – 3C-4 (Preliminary) – Cont.

Cat. No.	Category Name
8.2.1	Illumination
8.3.1	Signalization
8.4.1	ITS Control Systems Analysis, Design & Implementation
8.6.1	Rail-Highway Design
9.2.1	Active Transportation Planning
9.3.1	Pedestrian Facility Design
9.3.2	Accessibility Design
9.4.1	Bikeway Design
10.2.1	Roadway Hydraulic Design
10.3.1	Bridge Hydraulic Design
10.5.1	Bridge Scour Evaluations And Analysis
10.8.1	FEMA Regulations and Permits
14.1.1	Soil Exploration

Work Categories – 3C-4 (Preliminary) – Cont.

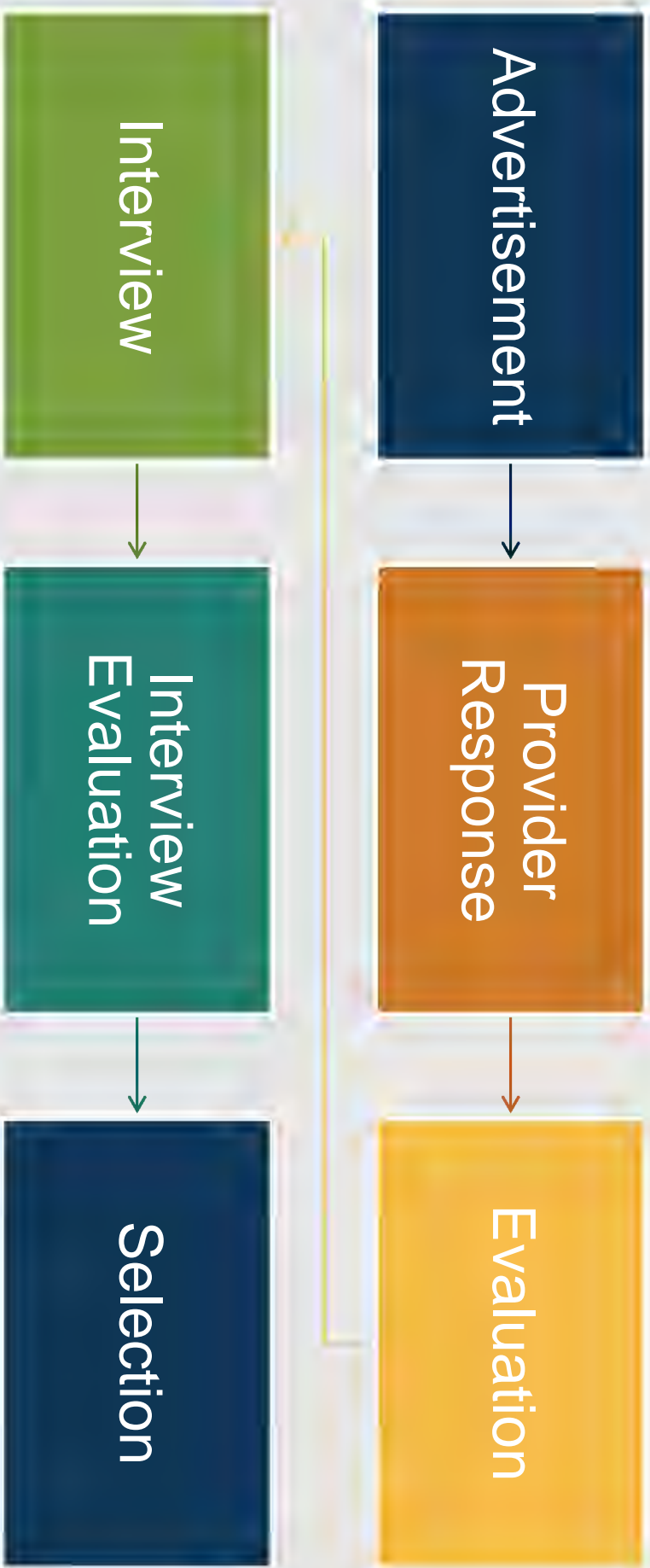
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18.4.1	Utility Engineering
18.7.1	Utility Relocation Design

Evaluation Criteria

Evaluation Criteria	Included Elements
Technical approach	Project understanding, project approach, innovative concepts or alternatives
Project Manager's relevant experience	Experience with similar or related projects, including both technical and management experience
Project management planning	Project staffing and resource management (who, how, and why), communication plan, and quality control procedures. Includes the prime firm's past experience with utilizing subproviders and meeting program goals (HUB or DBE) and/or how it plans to utilize subproviders to meet the goals on this contract. Also may include project scheduling or phasing for SD projects
Key staff's relevant experience	Experience with similar projects
Past Performance Score	

Proposals are independently scored by CST members based on the four evaluation criteria and their corresponding weightings.

Procurement Process



Tentative Timeline

RFP
Posting
late March

Proposals
Due Mid
April

Selection
Complete
May

Contract
Execution
October '24

Texas Administrative Code - Conflict of Interest

According to 43 TAC §10.6, a conflict of interest is a circumstance arising out of existing or past activities, business interests, contractual relationships, or organizational structure of an entity and because of which the entity's objectivity in performing the scope of work sought by the Department is or may be otherwise impaired, the entity's ability to give impartial advice or assistance to the Department might be impaired, or because of which the entity has an unfair competitive advantage.

Submittal Reminders

- Submit before the deadline
- QA/QC the submittal by referring directly to the RFP
- Check that all mandatory forms are in your submittal
- Verify name of project manager and task leaders
- Verify Task Leaders are pre-certified in the listed work categories
- Verify that your sub-providers are pre-certified in the listed work categories
- Check DBE participation
- Ensure your Administrative Qualifications are up to date

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16, 22, 29, 42, 72



#ENDTHESTREAKTX

HELP #EndTheStreakTX

End the streak of daily deaths on Texas roadways.

tddot.gov (Keyword: #EndTheStreakTX)





After this presentation, all questions must be submitted to John Mosaffa at John.Mosaffa@txdot.gov by noon, March 18, 2024, with the subject line: “HOU / PS&E / 3C-4 & 2A / Pre-RFP Meeting / Questions”.

Copy of the presentation, questions, and responses will be posted at:

<https://www.txdot.gov/business/consultants/architectural-engineering-surveying/meetings.html>