



# TxITE Update

**James W. Koch, P.E.**

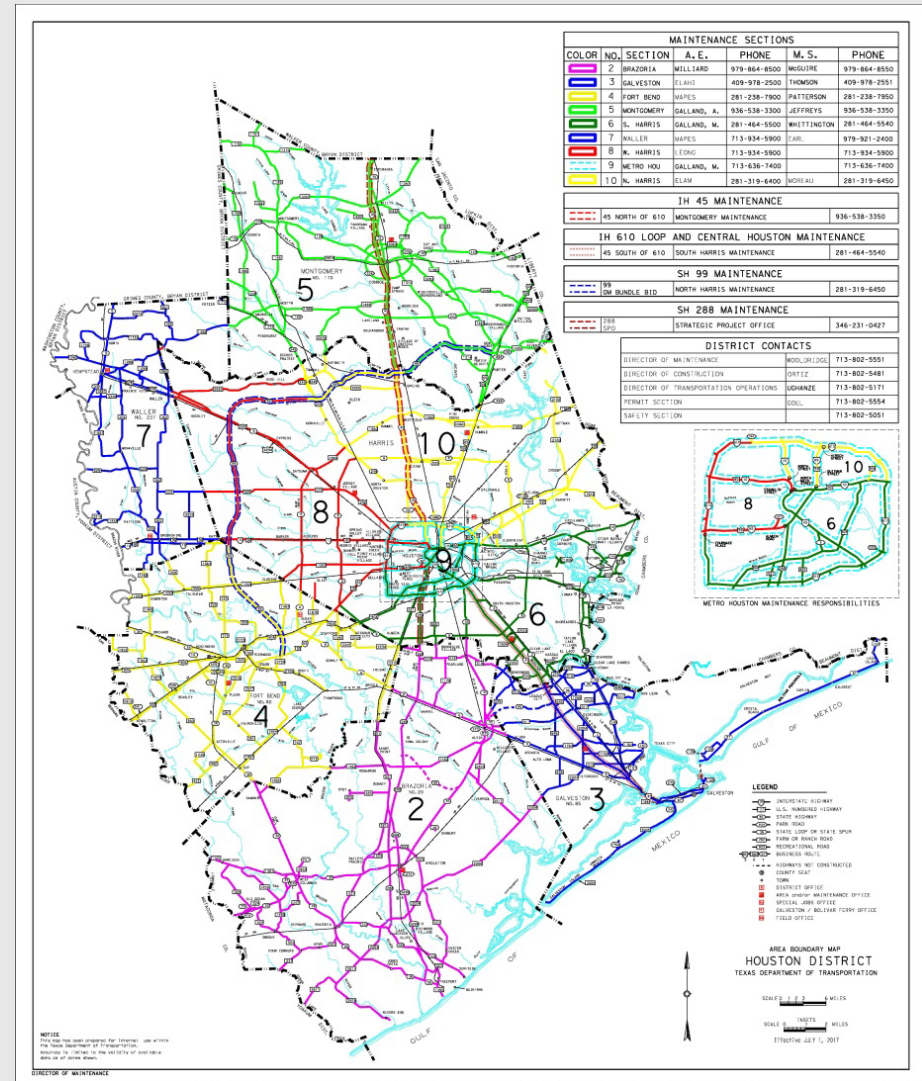
**Houston District Director of Transportation Planning & Development**

April 15, 2021

# HOUSTON DISTRICT



- Plans, designs, builds, operates and maintains the state transportation system in **six** counties: Brazoria, Fort Bend, Galveston, Harris, Montgomery and Waller.
- Encompasses **5,856** square miles.
- Serves approximately **6.8 million** people.
- Approximately **5.5 million** registered vehicles.
- Current FTE count is appropriately **1,200**.
- Seven** area offices and **nine** maintenance sections.
- Operation of the **Galveston/Port Bolivar Ferry** Service





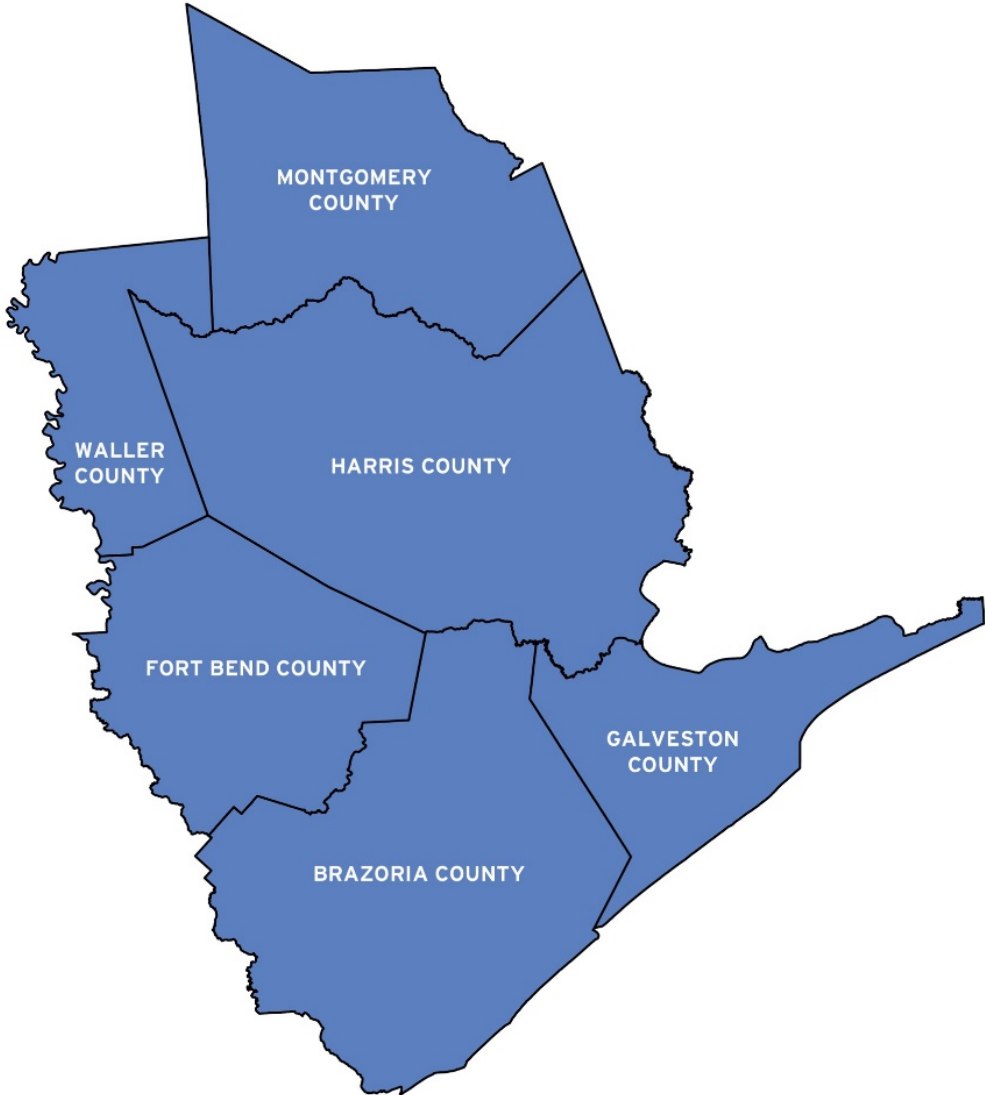
# REGIONAL PRIORITIES IN THE HOUSTON DISTRICT



- 1 US 290 Corridor
- 2 Proposed Hempstead Lanes
- 3 SH 99/Grand Parkway (Segments A-I2)
- 4 I-45 North Freeway Corridor
- 5 SH 288 Corridor
- 6 US 59/I69 Southwest Freeway (Harris County)
- 7 US 59/I-69/Southwest Freeway (Fort Bend County)
- 8 I-610 West Loop (including I-69 Interchange)
- 9 SH 249 Corridor
- 10 I-10 West (SH 6 – Brazos River)
- 11 Proposed SH 35 Corridor (Harris/Brazoria Counties)
- 12 I-45 South Freeway Corridor
- 13 I-10 East Freeway Corridor



# CONSTRUCTION FORECAST NEXT 4 YEARS



TXDOT HOUSTON DISTRICT	
<b>Construction Projects Next 4 Fiscal Years</b>	
FY21 (Sept '20 thru Aug '21)	\$0.774 B
FY22 (Sept '21 thru Aug '22)	\$1.383 B
FY23 (Sept '22 thru Aug '23)	\$1.851 B
FY24 (Sept '23 thru Aug '24)	\$2.006 B
<b>Total</b>	<b>\$6.014 B</b>

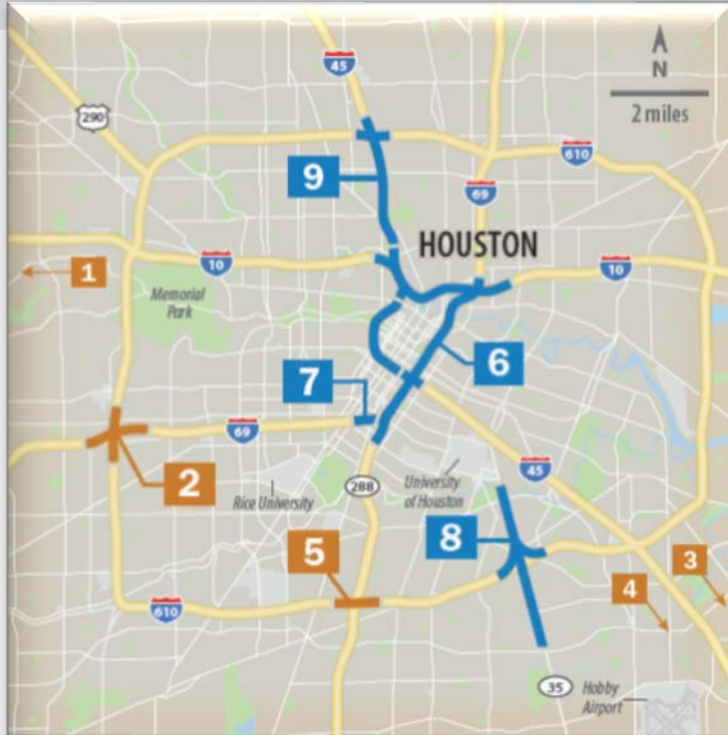
# FUNDING DISTRIBUTIONS – UTP 2020 -2029



Category	Statewide Authorized	HOU Authorized Funds	HOU %
1 – Preventive Maintenance	\$13,926,300,000	\$1,231,830,000	8.85%
2 – Metro and Urban Corridors (MPOs)	\$11,481,710,000	\$2,492,880,771	21.71%
3 – Non-Traditional Funds*	\$6,053,290,000	\$2,226,594,364	36.78%
4 - Statewide Connectivity (Regional & Urban)	\$11,220,550,000	\$1,416,300,000	12.62%
5 – Congestion Mitigation and Air Quality	\$2,213,510,000	\$1,105,780,000	49.96%
6 – Bridge	\$3,586,560,000	\$246,816,509	6.88%
7 – Metro Mobility (Large MPOs)	\$4,588,130,000	\$1,649,290,000	35.95%
8 – Safety	\$4,031,750,000	\$43,516,992	1.08%
9 – Federal Transportation Alternatives	\$910,500,000	\$115,410,000	12.68%
10 – Supplemental Transportation	\$571,580,000	\$55,780,445	9.76%
11 – District Discretionary	\$3,233,380,000	\$146,450,000	4.53%
12SP – Strategic Priority	\$10,740,000,000	\$1,042,600,000	9.71%
12CL – Texas Clear Lanes	\$5,000,000,000	\$1,994,420,000	39.89%
<b>Total</b>	<b>\$77,557,260,000</b>	<b>\$13,767,669,081</b>	<b>17.75 %</b>



# HOUSTON DISTRICT TEXAS CLEAR LANES PROJECTS



## TEXAS CLEAR LANES PROJECTS (UNDER CONSTRUCTION)

#	Project Highway	Project Limits	Description	Top 100 Congestion Ranking <sup>1</sup>	Total Prj. Cost	CST Cost	CST TCL Funding	Other CST Funding	CST Funding Status	CST Start	CST Compl.
1	IH-10 <sup>2</sup>	FM 359 to Brazos River	Construct 1 additional ML in each direction.	(I) 37	\$195.0 M	\$141.5 M	\$141.5 M	—	Funded	2017	2021
2	IH-69 at IH-610 <sup>2</sup>	IH-69 at IH-610	Reconstruction of DCs. Reconstruction of IH-610 ML bridge.	(D) 1, 2, 29, 34 (I) 57	\$327.8 M	\$258.8 M	\$87.5 M	\$171.3 M	Funded	2017	2023
3	IH-45 <sup>2</sup>	IH-45 from NASA 1 to FM 518	Widen to 10 MLs, two 3-lane FRs., and access into 2 Diamond Lanes.	(I) 27	\$133.5 M	\$99.8 M	\$64.5 M	\$35.3 M	Funded	2017	2021
4	IH-45 <sup>2</sup>	IH-45 from N. of FM 517 to S. of FM 1764	Reconstruct pavement to eight Mainlanes and two 2-lane Frontage Roads.	(I) 27	\$288.8 M	\$228.8 M	\$40.0 M	\$188.8 M	Funded	2018	2022
5	IH-610 at SH 288 <sup>2</sup>	IH-610 at SH 288	Reconstruct MLs, FRs, and construct overpass at Cambridge.	(D) 34, 42, 63 (I) 12, 38	\$101.2 M	\$83.2 M	\$81.8 M	\$1.4 M	Funded	2018	2022
<b>Estimated Total</b>					<b>\$1,046.3 M</b>	<b>\$812.1 M</b>	<b>\$415.3 M</b>	<b>\$396.8 M</b>			

## TEXAS CLEAR LANES PROJECTS (FUNDED IN 2020 UTP)

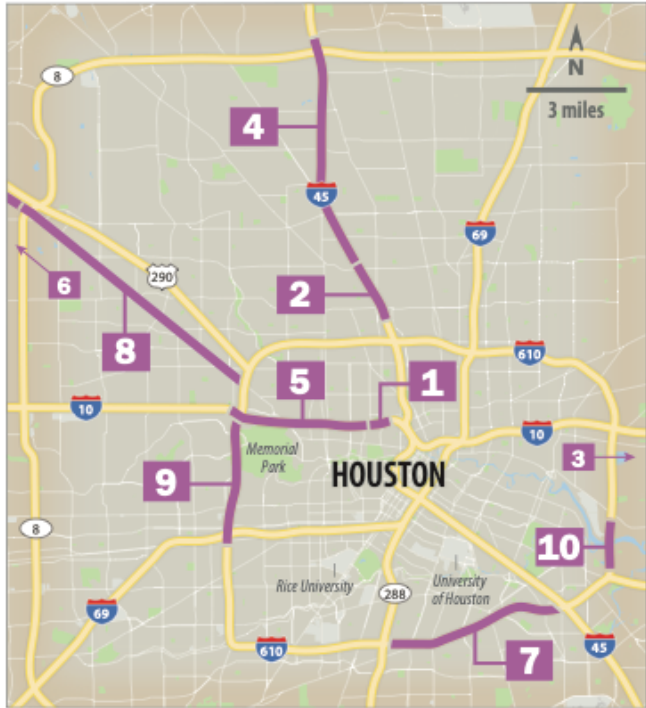
#	Project Highway	Project Limits	Description	Top 100 Congestion Ranking <sup>1</sup>	Total Prj. Cost	CST Cost	CST TCL Funding	Other CST Funding	CST Funding Status	CST Start	CST Compl.
6	IH-45 <sup>2</sup>	IH-45 at I-10	Reconstruct interchange. NHHIP	(D) 11, 16, 17, 20 (I) 5, 12, 64, 100	\$4,230 M	\$3,650.4 M	\$1,418.4 M	\$2,232.0 M	Funded	2022	2028
	IH-45, IH-69 and IH-10 <sup>2</sup>	IH-45 at IH-69 and IH-10	Reconstruct IH-45, IH-10, and IH-69 interchange. NHHIP	(D) 5, 16, 64, 100 (I) 11, 12, 17, 20							
	IH-45 <sup>2</sup>	IH-45 at IH-69	Reconstruct interchange. NHHIP	(D) 5, 11, 12 (I) 2, 16, 64, 100							
	IH-69 <sup>2</sup>	IH-45 to SH 288	Reconstruct interchange. NHHIP	(D) 2, 5, 12 (I) 11							
	IH-69 <sup>2</sup>	IH-69 at McGowan, Tuam, and Elgin	Construct three bridges. NHHIP	(D) 2, 5, 12 (I) 11							
	IH-45 <sup>2</sup>	IH-69 from IH-10	Construct Parkway Connectors into Downtown Hou. and remove existing Pierce Elevated. NHHIP	(D) 11 (I) 5, 12							
7	IH-69 <sup>2</sup>	SH 288 to Spur 527	Reconstruct to 10 GPs. NHHIP	(D) 2, 5, 12 (I) 11	\$273.7 M	\$210.0 M	\$210.0 M	—	Funded	2021	2026
8	SH 35 <sup>2</sup> , IH-610 <sup>2</sup>	SH 35 N. of OST to Bellfort St., Interchange at IH 610	Construct 8-lane freeway, 2-lane FRs on new location, and DCs at SH 35 and IH-610	(I) 11, 12, 27, 38, 42	\$445.0 M	\$338.2 M	\$243.5 M	\$94.7 M	Funded	2022	2027
9	IH-45 Seg. 2 <sup>2</sup>	IH-10 to IH-610 and Interchange at IH-610	Reconstruct GPs, FRs., and interchange. Construct 4 new NTMLs. NHHIP	(D) 10, 18, 20, 50 (I) 11, 16, 17	\$1,225.0 M	\$1,055.0 M	\$122.5 M	\$932.5 M*	Funded	2024	2028
<b>Estimated Total</b>					<b>\$6,173.7 M</b>	<b>\$5,253.6 M</b>	<b>\$1,994.4 M</b>	<b>\$3,259.2 M</b>			

Note: Total Project Cost consists of Construction Cost, Preliminary Engineering, ROW, Utilities and Construction Engineering. If the project is a Design Build it also includes Developer Costs. NHHIP = North Houston Highway Improvement Project FRs = Frontage Roads NTMLs = Non-Tolled Managed Lanes (D) = Direct (I) = Indirect TCL = Texas Clear Lanes CST = Construction P = Planning PE = Preliminary Engineering (studies have begun including environmental, surveys, traffic, etc) PS&E = Developing design (plans, specifications and estimates) R = ready for construction

1. Statewide TTI Most Congested List 2018
2. Construction costs only include construction for a traditional Design-Bid-Build
3. Construction costs include engineering and utility relocations for a Design-Build Contract.
4. \$215 M funding anticipated in future UTP via LAR and programmed as CAT 3 DB funds.
5. Anticipated in future UTP via LAR and programmed as CAT 3 DB Funds.
6. Potential \$140 M candidate project in METRO's Fall 201 Bond Election
7. Start/completion estimates are based on the assumption funding is available as of November 2019. These estimates are for discussion purposes only and do not guarantee project schedule or delivery.



# FUTURE MAJOR PROJECTS



## TEXAS CLEAR LANES PROJECTS (FUTURE POTENTIAL PROJECTS UNFUNDED OR PARTIALLY FUNDED)

#	Project Highway	Project Limits	Description	CST Cost	CST Funding	CST Funding Gap
1	IH-10 White Oak Bayou	Studemont Street to Houston Avenue	Reconstruct GPs to raise out of White oak Bayou floodway.	\$253.3 M	\$41.7 M	\$211.6 M
2	IH-45 Seg. 1A	IH-610 to Tidwell Road	Reconstruct GPs, FRs, and construct 4 new NTMLs. NHHIP	\$526.8 M	\$106.8 M	\$420.0 M
3	IH-10 East	At San Jacinto River	Replace and widen GP bridge and approaches.	\$300.0 M	—	\$300.0 M
4	IH-45 Seg. 1B	Tidwell Road to north of Beltway 8	Reconstruct GPs, FRs, and construct 4 new NTMLs. NHHIP	\$1,002.0 M	—	\$1,002.0 M
5	IH-10 Inner Katy	IH-610 to Studemont Street	Reconstruct GPs, FRs, and construct 4 new NTMLs.	\$900.0 M	\$300.0 M	\$600.0 M
6	Hempstead Hwy. (Outside BW 8)	SH 99 to BW 8	Construct 4 new NTMLs	\$350.0 M	—	\$350.0 M
7	IH-610 South	From IH-45 to SH 288	Reconstruct GPs including TSM improvements.	\$260.0 M	\$30.0 M	\$230.0 M
8	Hempstead Hwy. (Inside BW 8)	BW 8 to IH-610	Reconstruct FR and construct 4 new NTMLs.	\$900.0 M	—	\$900.0 M
9	IH-610 West	From IH-10 to IH-69	Construct 4 elevated express lanes in the center of IH-610 West Loop	\$350.0 M	—	\$350.0 M
10	IH-610 East	At Ship Channel	Replace and widen GP bridge and approaches.	\$1,600.0 M	—	\$1,600.0 M
<b>Estimated Totals</b>				<b>\$6,442.1 M</b>	<b>\$478.5 M</b>	<b>\$5,963.6 M</b>





## Active Construction Projects

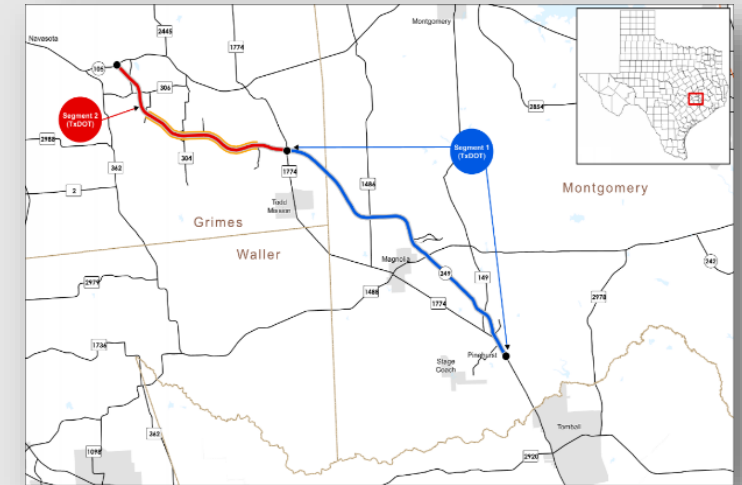
### SH 288 Toll Lanes in Harris County

- CDA/Design/Build Project - \$832M
- Blueridge Transportation Group, LLC (BTG)
  - Lead Contractor: Alameda-Genoa Constructors (A-GC)
- Constructing 10.3 miles of Toll Lanes
  - Toll Lanes Opened November 2020
  - [www.drive288.com](http://www.drive288.com)



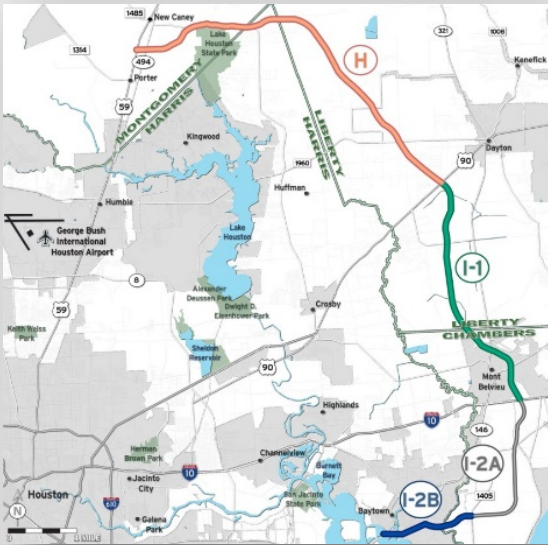
### SH 249 Corridor in Montgomery & Grimes Counties

- Design/Build Project -550 Million
- WBCCI, LLC (Williams Brothers)
- Constructing 24 miles of Toll & Non-toll Lanes
  - Segment 1a Opened in August 2020
  - Segment 1b and 2 Anticipated Completion Spring 2021
  - [www.txsh49.com](http://www.txsh49.com)



### Grand Parkway (SH 99) Segments H&I

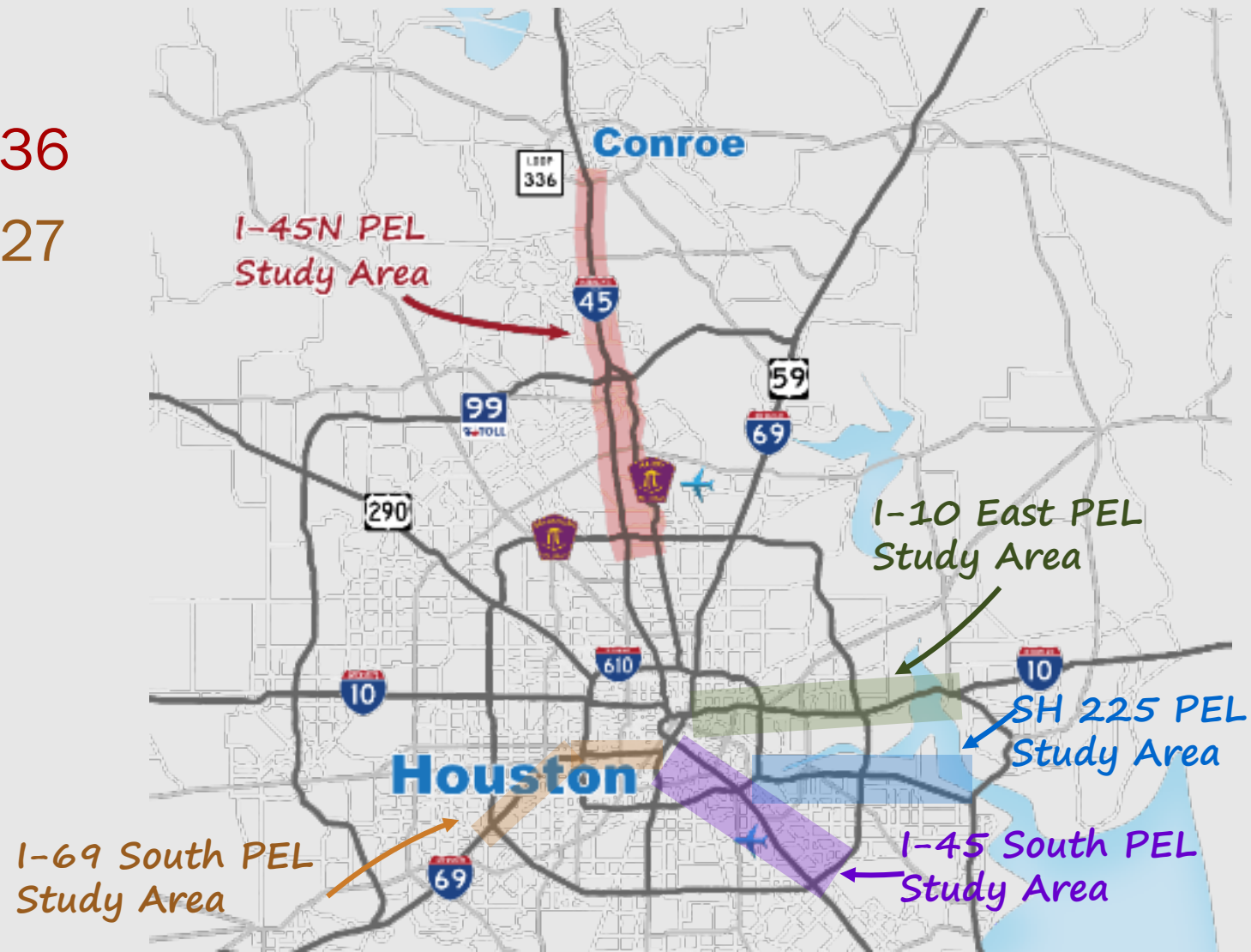
- Harris, Montgomery, Liberty and Chambers Counties
- Design/Build Project - \$894 million
- Grand Parkway Infrastructure (GPI)
- Constructing 53 miles of Toll & Non-toll Lanes
  - Anticipated Completion Spring 2022
  - [www.sh99grandpkwy.com](http://www.sh99grandpkwy.com)





# ON THE PLANNING HORIZON...CURRENT HOUSTON DISTRICT PEL STUDIES

- I-10 East from I-69 to SH 99
- I-45 North from BW 8 to Loop 336
- I-69 South from BW 8 to Spur 527
- I-45 South from I-69 to BW 8
- SH 225 from I-610 to SH 146



# WHERE TO FIND PROJECT INFORMATION



- The 2020 UTP contains thousands of planned transportation projects in various stages of development
- TxDOT publishes a subset of these projects in the annual UTP document (717 projects funded in Categories 2, 4, 12, and 10-CBI)
- Projects in all 12 UTP categories can be found on Project Tracker, TxDOT's online project reporting system and interactive map

TEXAS DEPARTMENT OF TRANSPORTATION

Project Tracker | TxDOT | Open Data Portal | Statewide Planning Map

SEARCH by KEYWORD

City, County, District, MPO..

Apply RESET

Switch to Advanced search

SUMMARY BY PHASE:

Projects	Est. Cost
228	\$24,681,676,345
6,262	\$29,412,474,608
2,021	\$57,133,799,311
269	\$20,721,999,494
14,790	\$131,949,949,757



TxDOT Project Tracker

UTP Document



# QUICK IH 45 UPDATE

# WHY ARE WE DOING THIS PROJECT?



- **Need for NHHIP**
  - Existing congestion
  - Projected increases in population and employment
  - Projected growth in traffic
  - Outdated design elements
  - Aging infrastructure
- **Purpose of NHHIP**
  - Apply current design standards to enhance safety
  - Mitigate congestion by improving mobility and operational efficiency
  - Expand transit and carpool capacity with 2-way, 24/7 operations
  - Maintain effective evacuation routes
- NHHIP has 9 of the Top 40 Most Congested Roadways in Texas



# CHANGES FOR THE BETTER VIDEO & WHITE PAPERS



- **Identify the Problem**
  - Explain Why the Project is Needed
  - Describe Proposed Improvements
  - Give Historical Perspective
- **Highlight Safety, Congestion & Accommodation Improvements**
  - Design and Safety Features
  - Capacity for More Efficient Evacuation
  - Necessity for Infrastructure to Support for Freight and Commerce Transportation
  - Managed Lanes to Enhance Transit Options & Incentivize Rideshare
- **Convey Pros Outweigh Cons**
  - Reinforce Design and Mitigation Commitments Developed Directly from Public Involvement
  - Acknowledge Housing & Community Impacts
  - Reinforce Commitments to Minimizing Community Impact
- **Speak to Benefits and Impact Mitigation**
  - Improving Drainage and Flood Resiliency
  - Air Quality Is Improving
  - Pedestrians & Bicyclists Accommodations
  - Visual & Aesthetic Treatments
- **Address Some of the Projects Most Frequently Asked Questions**



To learn more about the NHHIP, scan the QR code and watch the Changes for the Better video.



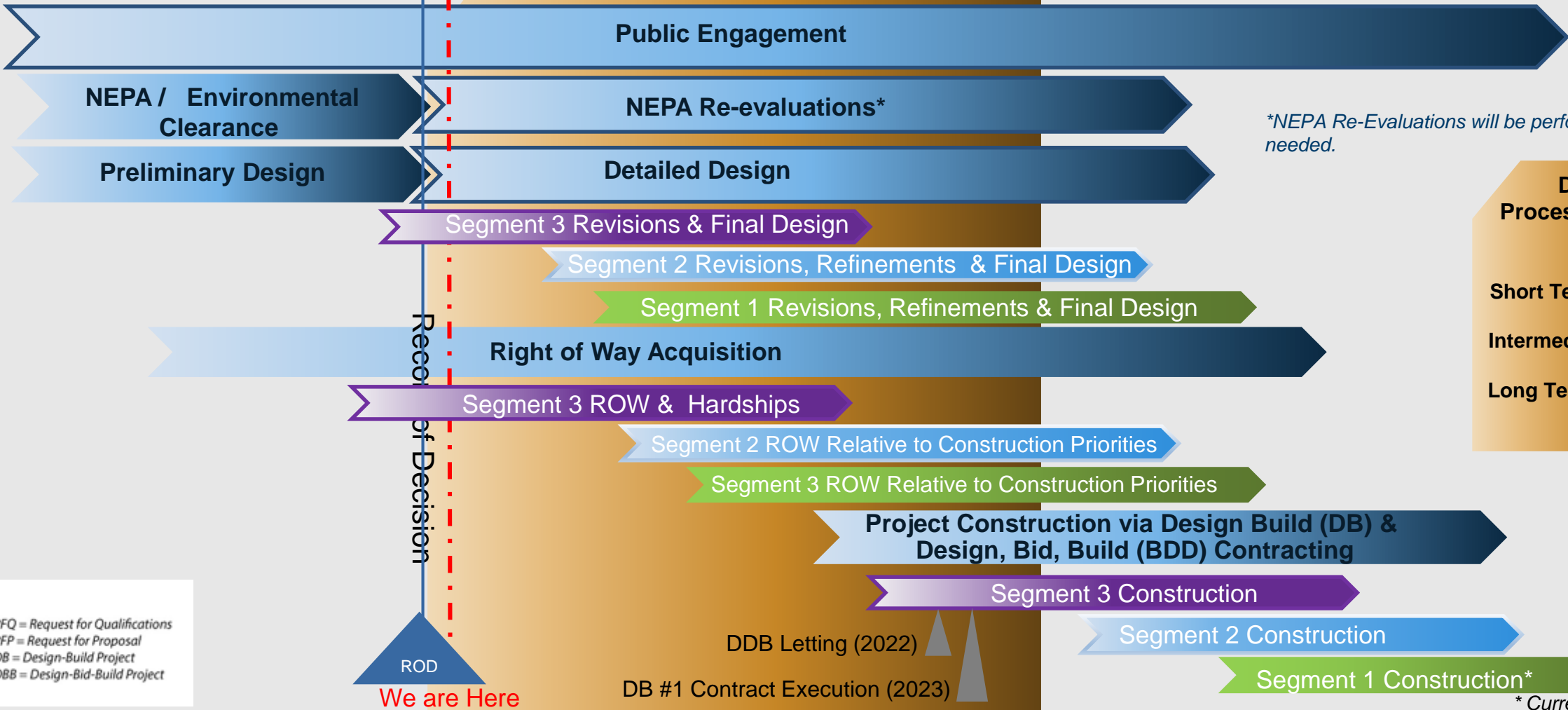
# Project Development Milestones 2000 - 2030



Short, Intermediate & Long Range Decisions

2000's

2030



*\*NEPA Re-Evaluations will be performed as needed.*

Decision Process Timeline	
Short Term=	1-6 Months
Intermediate=	1-18 Months
Long Term=	1-24 Months

RFQ = Request for Qualifications  
 RFP = Request for Proposal  
 DB = Design-Build Project  
 DBB = Design-Bid-Build Project

ROD  
 We are Here

DDB Letting (2022)

DB #1 Contract Execution (2023)

*\* Currently Unfunded*

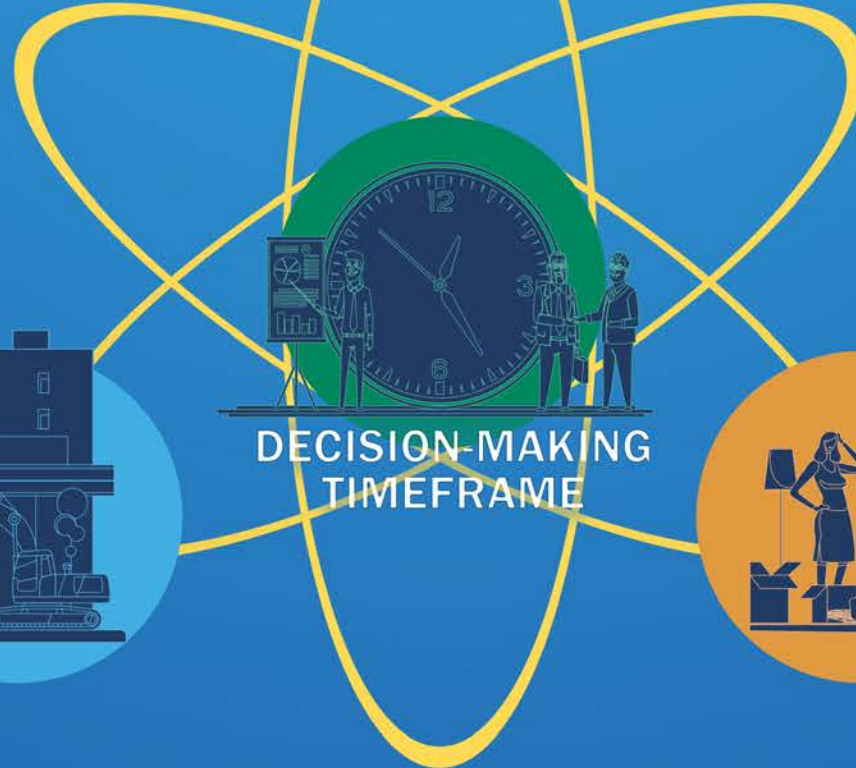
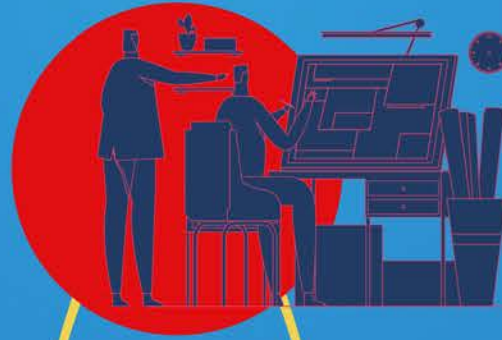




# NEXT STEPS DECISION-MAKING PRIORITIES



ADDRESSING COMMUNITY ASKS  
DESIGN REVISIONS  
DETAILED DESIGN  
PROCUREMENT



PROJECT CONSTRUCTION



ROW ACQUISITIONS  
& RELOCATIONS



# SUMMARY OF CURRENT STATUS & NEXT STEPS



Ongoing

- Continued Community and Stakeholder Engagement

2021-23

- Short, Intermediate and Long Range Decision Making to Advance Project Development

2021-24

- Detailed Design, Project Refinements\* & Final Design

*\*NEPA Re-Evaluation will be performed as needed.*

2021

- Right-of-Way Acquisition for Segment 3

2022

- Start of Construction on Segment 3

After  
2026

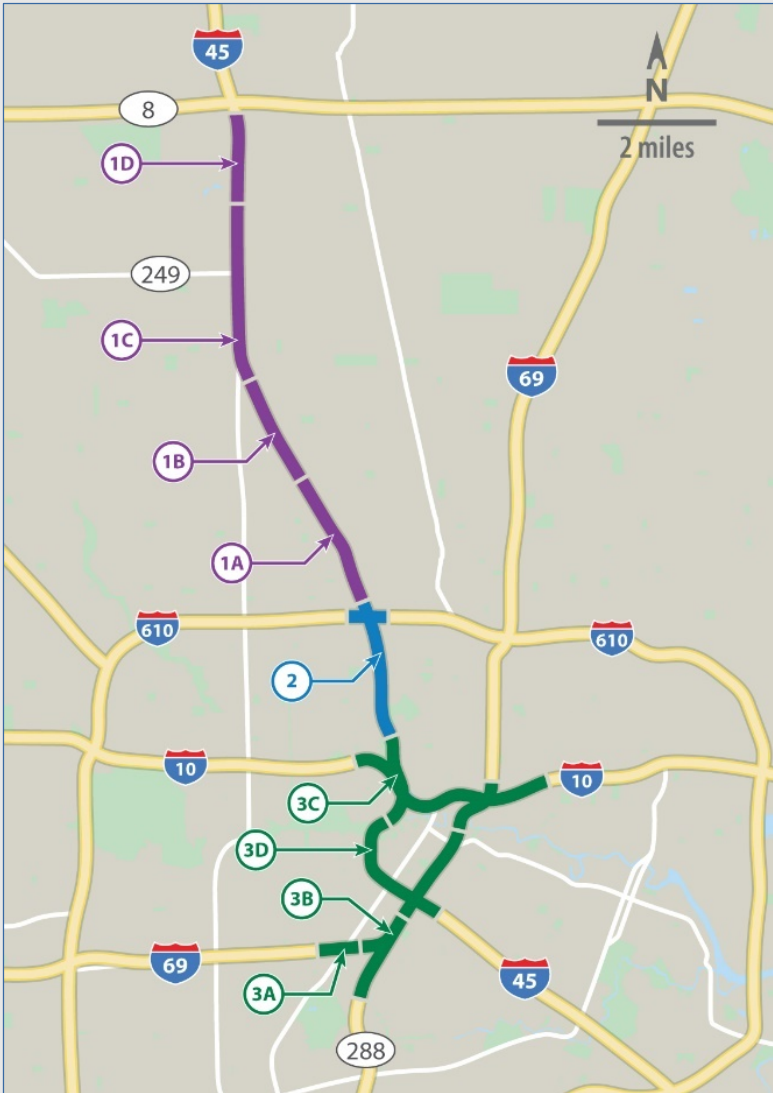
- Construction on Segments 2 & 1\*

*\* Currently Unfunded*





# ANTICIPATED PROJECT DELIVERY COST & SCHEDULE



## DELIVERING NHHIP

SEGMENT	ESTIMATED LET/ CONTRACT AMOUNT	CONSTRUCTION START	CONSTRUCTION COMPLETION
3A	\$260 M	2022	2027
3B	\$336 M	2022	2027
3C	\$1,987 M	2024	2029
3D	\$1,415 M	2026	2030
2	\$1,104 M	2028	2032
1A	\$527 M	2028	2030
1B	\$360 M	TBD	TBD
1C	\$350 M	TBD	TBD
1D	\$400 M	TBD	TBD
<b>TOTAL</b>	<b>\$6,739 M</b>		



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