



Greater Houston Business Procurement Forum

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Texas Department of Transportation



TEXAS DEPARTMENT OF TRANSPORTATION

HELP

#EndTheStreakTX

End the streak of daily deaths on Texas roadways.

TxDOT.gov (Keyword: #EndTheStreakTX)



#EndTheStreakTX Toolkit





Connecting You With Texas

TxDOT Progress Report: 2015-2022

Texas is Booming

9th

largest economy
worldwide

5

of 13 most populous
cities in the U.S.

1,000

average added to Texas
population daily

4M

people added, 2010-
2020

30M

residents in 2022, 40+
million in 2050

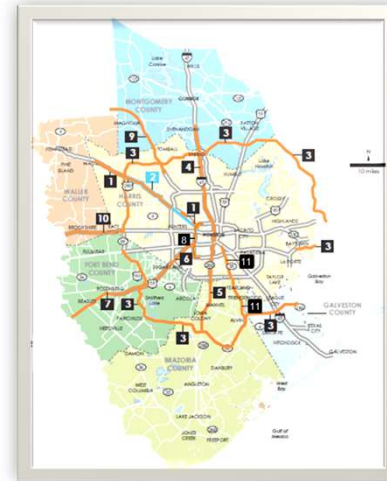
Texas has bragging rights. With that comes an increasing demand for safety, delivery, innovation, and trust.

THE HOUSTON DISTRICT

The Houston District is Driving Solutions



Houston is the crossroads for interstate highways 10 and 45. Other major highways serving Houston are Interstate 610, Interstate 69/US 59, US 90, US 290, Texas 99, Texas 146, Texas 225, Texas 249, Texas 288, Texas 35, and Beltway 8.



CONNECTING TEXANS TO WHAT MATTERS MOST



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



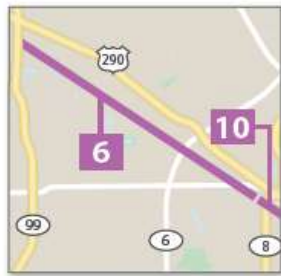
www.txdot.gov/content/dam/docs/district/houston-district-profile.pdf



ON THE HORIZON



TEXAS CLEAR LANES FUTURE PROJECTS



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

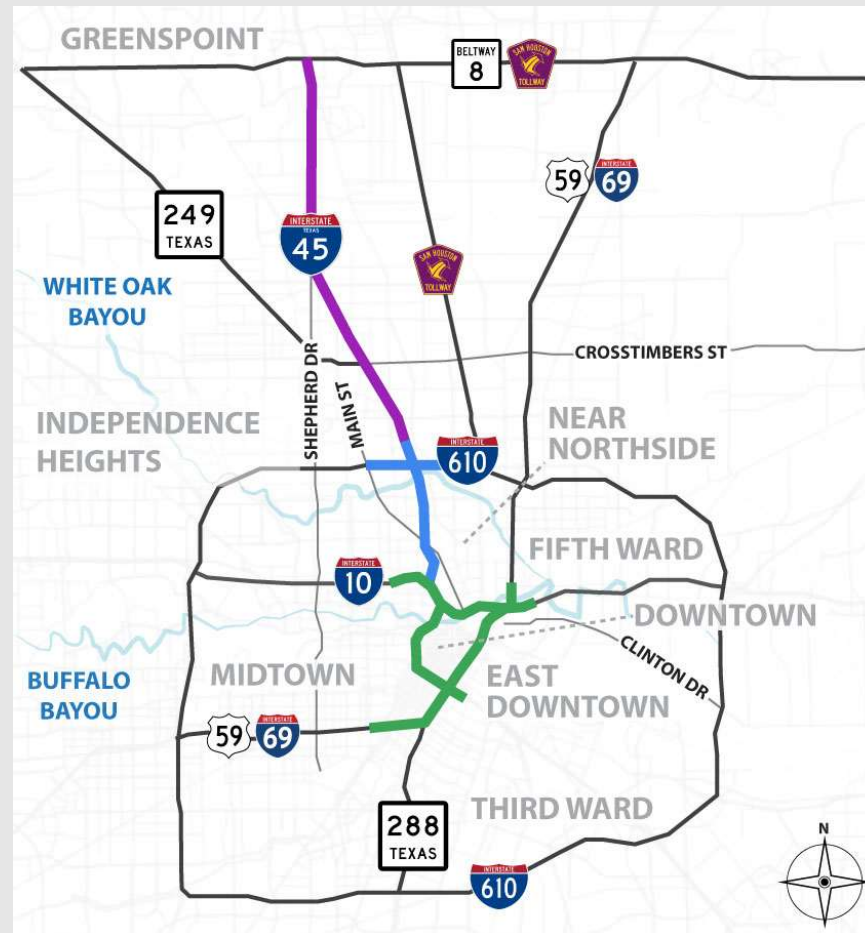
#	Project Highway	Project Limits	Description	Top 100 Congestion Ranking ¹	Total Proj. Cost	CST Cost	CST CL Funding	Other CST Funding ²	CST Funding Gap 2024 UTP Request	Current Stage	B/C Ratio	CST Start ³	CST Compl. ⁴
1	IH-45 (NHHP - 1D ²)	South of West Road to SL 8	Reconstruct IH-45 GP and FR & add new non-tolled managed lanes 2 miles (0110-06-132)	(D) 15 (I) 8, 22	\$556.4 M	\$350.1 M	---	---	\$350.1 M \$0.0 M	P	3.1	2028	2032
2	IH-45 (NHHP - 1C ²)	Shepherd Drive to West Road	Reconstruct IH-45 GP and FR & add new non-tolled managed lanes 2.5 miles (0110-06-139)	(D) 15 (I) 8, 22	\$866.4 M	\$530.9 M	---	---	\$530.9 M \$0.0 M	P	3.1	2029	2033
3	IH-45 (NHHP - 1B ²)	Airline Drive to Shepherd Drive	Reconstruct IH-45 GP and FR & add new non-tolled managed lanes 2.5 miles (0500-03-446)	(D) 15 (I) 8, 22	\$777.2 M	\$409.2 M	---	---	\$409.2 M \$0.0 M	P	3.1	2030	2034
4	IH-45 (NHHP - 1A & 2 ²)	IH-10 to Airline Drive & IH-45/IH-610 Interchange	Reconstruct IH-45 GP and FR, add new non-toll managed lanes & reconstruct interchange 5 miles (0500-03-597, 0500-03-560, 0500-03-596)	(D) 8, 15, 22, 42 (I) 8, 10, 13, 16, 22	\$2,081.9 M	\$1,771.2 M	\$122.5 M	\$658.3 M	\$990.4 M \$0.0 M	P	3.1	2031	2037
5	IH-45 (NHHP - 3D ²)	IH-45 S to Buffalo Bayou & Downtown Connectors	Reconstruct IH-69, realign IH-45 & Construct Downtown Connectors 4.2 miles (0500-03-598, 0500-03-601)	(D) 4, 10, 29 (I) 4, 5, 13, 16, 22, 29, 72	\$2,091.8 M	\$1,578.2 M	\$532.8 M	\$630.4 M	\$414.9 M \$0.0 M	P	3.4	2031	2038
6	Hempstead Hwy. (Outside BW 8) ²	SH 99 to SL 8	Construct 4 new NTMLS 15.9 miles (0912-72-600, 0912-72-602)	(I) 8	\$802.0 M	\$392.0 M	---	---	\$392.0 M \$0.0 M	PE	5.5	2025	2030
7	IH-10 East ²	At San Jacinto River	Reconstruct and widen IH-10 to remove bridge columns from main barge channel 1.5 miles (0508-01-379)	(I) 42, 72, 78	\$792.3 M	\$555.7 M	\$170.2 M	---	\$385.5 M \$385.5 M	PS&E	2.5	2026	2031
8	IH-10 Inner Katy ²	IH-610 to Studemont Street	Reconstruct GPs, FRs, and construct 4 new NTMLS 5.1 miles (0271-07-342, 0271-07-343, 0271-07-344, 0271-07-346)	(D) 13 (I) 1, 8, 10, 16, 22, 33	\$1,458.0 M	\$1,164.8 M	---	---	\$1,164.8 M \$1,164.8 M	PE	3.8	2027	2031
9	IH-610 South ²	IH-45 South to SH 288	Reconstruct GPs and add TSM improvements 5.8 miles (0271-16-138, 0271-16-139, 0271-16-138, 0271-16-159)	(D) 58 (I) 10, 25, 34, 78	\$402.6 M	\$277.9 M	---	\$30.0 M	\$247.9 M \$247.9 M	PE	3.8	2027	2031
10	Hempstead Hwy. (Inside BW 8) ²	BW 8 to IH-610	Reconstruct FR and construct 4 new NTMLS 9.0 miles (0912-72-598, 0912-72-599, 0912-72-601, 0912-72-603)	(I) 8, 33	\$1,308.0 M	\$1,008.0 M	---	---	\$1,008.0 M \$0.0 M	P	5.5	2027	2033
11	IH-610 East ²	At Ship Channel	Replace and widen GP bridge and approaches 2.0 miles (0271-15-096)	(D) 78 (I) 10, 25, 42, 58	\$2,592.1 M	\$1,792.0 M	---	---	\$1,792.0 M \$1,792.0 M	P	2.4	2028	2032
12	IH-610 West ²	IH-10 to IH-69	Construct 4 elevated non-tolled express lanes in the center of IH-610 West 3.6 miles (0271-17-162)	(D) 1 (I) 5, 8, 13, 24, 33, 34	\$421.3 M	\$321.3 M	---	---	\$321.3 M \$321.3 M	P	11.4	2028	2033
Estimated Total					\$14,090.0 M	\$10,145.3 M	\$825.6 M	\$1,318.7 M	\$8,001.0 M \$3,911.5 M				
GRAND TOTAL					\$20,881.4 M	\$15,722.6 M	\$3,073.1 M	\$2,532.2 M	\$9,117.0 M \$5,027.5 M				

TRANSFORMING HOUSTON TRANSPORTATION

**I-45/NORTH HOUSTON HIGHWAY
IMPROVEMENT PROJECT - NHHIP**



PROJECT MAP



PROJECT AREA LEGEND

- SEGMENT 1
- SEGMENT 2
- SEGMENT 3





1

I-45 was built more than 50 years ago, when the population in greater Houston region was under 2 million.

2

Since 1970, this region's population has grown by more than 200% (current population nearly 7 million).

3

By 2050, the current population of this region is expected to almost double to nearly 13 million.





Why Is The Nhhp Being Proposed?

7 of the Top 25 Most Congested Roadway Segments in Texas

Demands on the project infrastructure

- Traffic congestion, current and projected increases in the future
- Population, current and projected growth in the future
- Aging infrastructure and outdated design elements

Project Goals

- Rebuild to current design standards to enhance safety
- Mitigate congestion by improving mobility and operational efficiency
- Expand transit and carpool capacity
- Improve flood resiliency
- Support regional freight mobility
- Maintain effectiveness of hurricane evacuation routes



KEY TAKE AWAYS

NHHIP is the highway component of the original joint effort by TxDOT, METRO and H-GAC to study needs and propose improvements to the area between Downtown Houston and Bush Intercontinental Airport.

NHHIP has 7 out of the top 25 Most Congested Roadway Segments in Texas

NHHIP strategically adds capacity to incentivize multi-modal choices via high-occupancy vehicle use, bus transit mode, as well as future proof corridor for vehicle innovations.

NHHIP will significantly improve drainage along Little White Oak Bayou.

NHHIP will significantly improve safety for pedestrians and cyclists.



REGIONAL BENEFITS

The NHHIP will address critical needs including updating the highway to current design and safety standards, relieving traffic congestion, improving storm water drainage, and improving evacuation routes.



COMMUNITIES

In addition to compensating property owners and paying to relocate residents directly impacted, TxDOT will provide more than \$27 million in financial assistance for affordable housing in adjacent neighborhoods. Highway improvements will substantially lessen inter-city traffic.



NEW PED-BIKE PATHS

New pedestrian and cyclist facilities on all cross streets behind protective curb.



FLOOD MITIGATION

Build new storm drains, pump stations and detention ponds to help reduce flooding.



NEW NOISE MITIGATION

Add walls to mitigate roadway noise and serve as a visual screen.



JOB

92,000 direct jobs and 89,000 indirect jobs are being generated from this project.

7 OUT OF THE TOP 25
THE I-45 CORRIDOR HAS 5 OF THE TOP 10 MOST CONGESTED ROADWAYS IN TEXAS.*

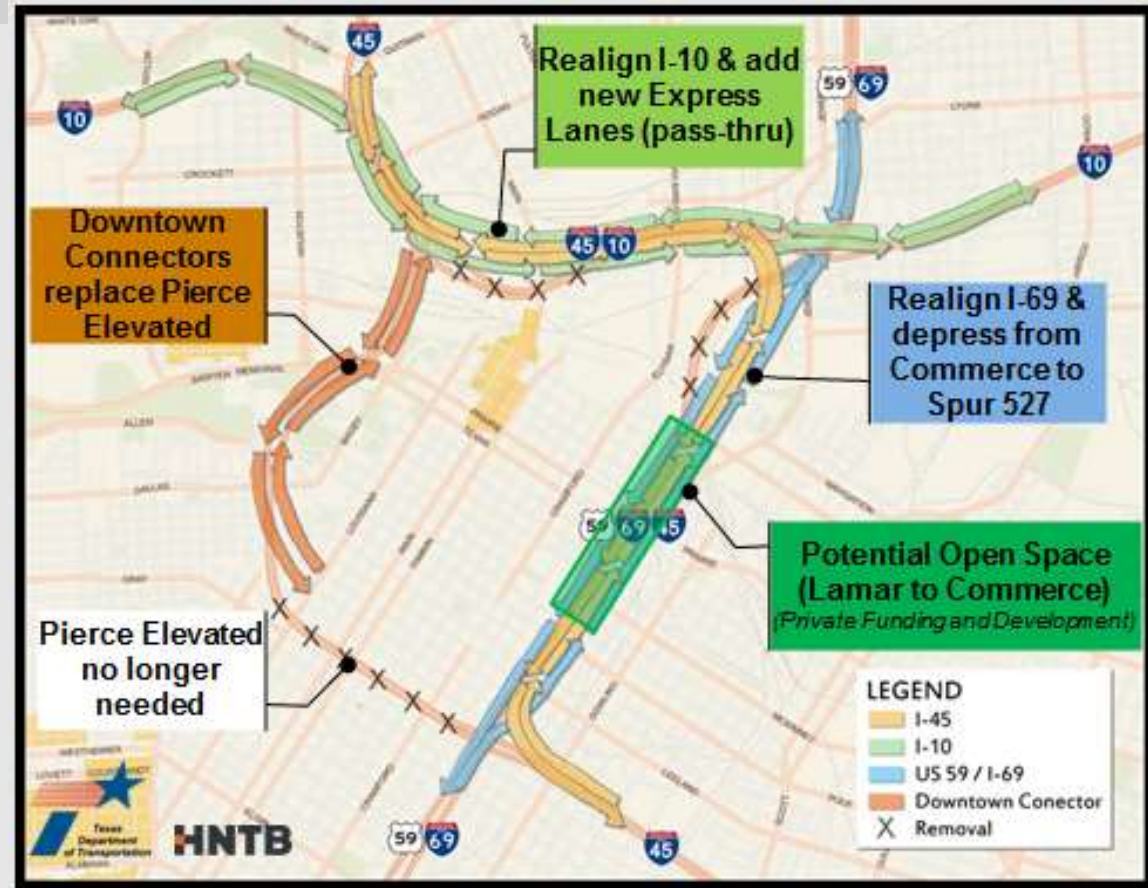


*SOURCE: TEXAS A&M TRANSPORTATION INSTITUTE'S 100 MOST CONGESTED ROADWAYS IN TEXAS, PUBLISHED 2020.

NHHIP: UNTANGLING THE DOWNTOWN FREEWAY SYSTEM

- **+24 mph = 55 mph free flow speed***
(Year 2040 AM Peak)
- **50% reduction in delay during peak hour around downtown***
- **Region-wide reduction in delay and increase to average speeds***

**Potential major air quality improvement for the region – positive overall impacts*



PRELIMINARY-SUBJECT TO CHANGE

POTENTIAL GREEN SPACE BEHIND THE GRB



NOTE: Green space option is conceptual only and would require separate development and funding.

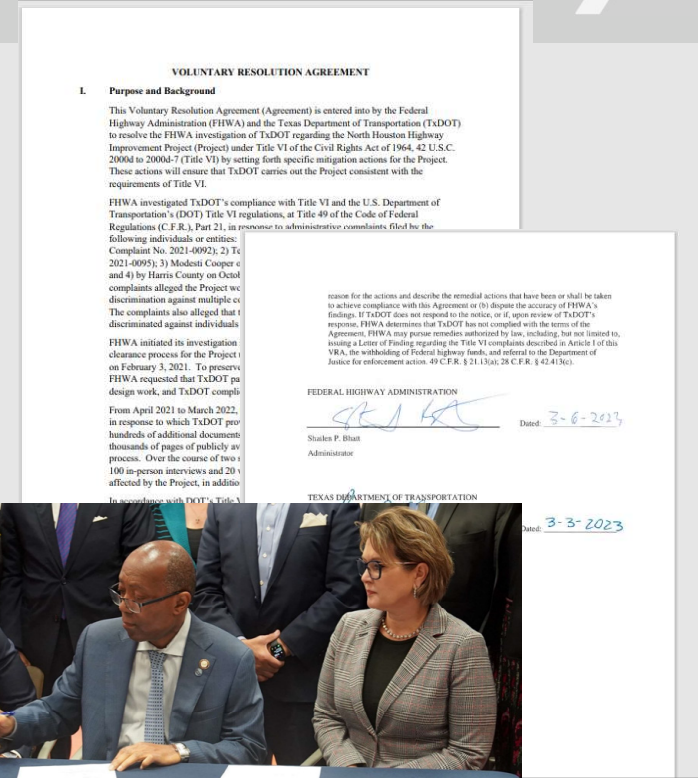
Segment 3

HNTB

CURRENT STATUS & TIMELINES

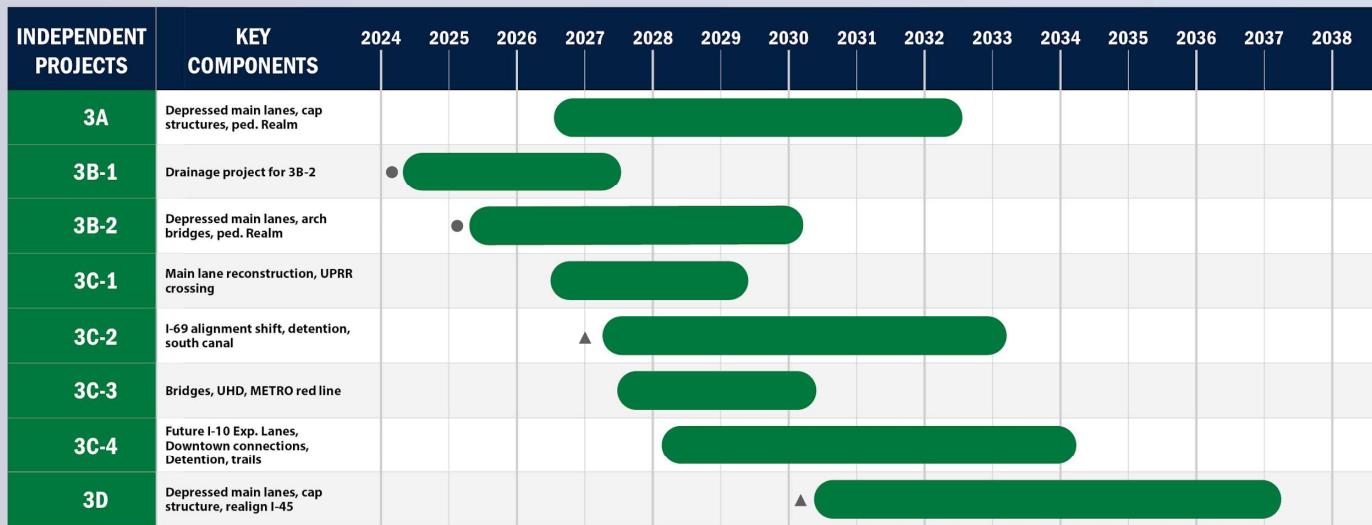
NHHIP – Status Update

- TxDOT Issued the NHHIP Record of Decision (ROD) February 2021
 - Signified the Completion of the Environmental Review Process
- Project Paused June 2021 by FHWA due to Title VI Investigation
- 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
- Voluntary Resolution Agreement (VRA) with FHWA
 - March 5, 2023
- NHHIP remains funded in the 2023 UTP with \$5 billion
 - Including \$490.7M as approved by the TPC





CONSTRUCTION PHASING



- 3B-1 is phased to start before 3B-2 because drainage elements in 3B-1 need to be constructed and operational to receive drainage from 3B-2.
- ▲ 3C-2 is phased to start before 3D because proposed I-69 in 3C-2 needs to be constructed and operational to receive proposed I-69 in 3D. (Proposed I-69 in 3D is unable to be connected to existing I-69 in 3C-2)

PROJECT FUNDING

INDEPENDENT PROJECTS	ESTIMATED CONTRACT COST
3A	\$639,360,000
3B-1	\$152,184,270
3B-2	\$495,846,188
3C-1	\$150,000,000
3C-2	\$1,358,790,000
3C-3	\$250,000,000
3C-4	\$848,875,000
3D	\$1,785,000,000

TOTAL= \$5,680,055,458





Segment 3B

Initial Projects in Detail Design



SEGMENT 3B OVERVIEW

3B to be separated in two separate design packages

SEGMENT 3B-1

- Drainage outfall to Buffalo Bayou (including detention pond), and reconstruction of St. Emanuel St.

SEGMENT 3B-2

- Construction of pump station, reconstruction of SH 288/ I-69 interchange with depressed mainlanes
- Construction of direct connectors from SH 288 to I-69
- Reconstruction of cross street for Elgin, Tuam & McGowen Streets as arch bridges



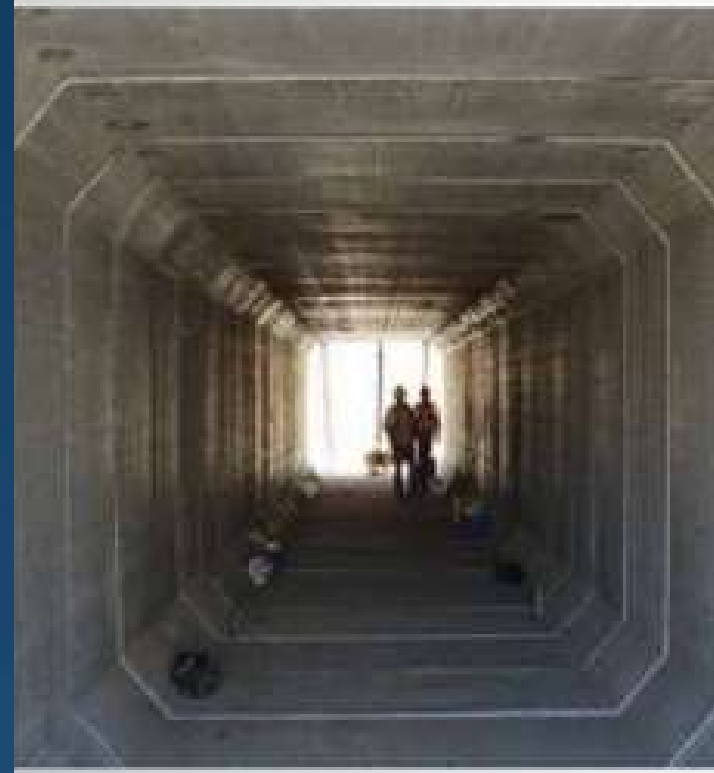
Segment 3 Drainage & Flooding

SEGMENT 3B-1 OVERVIEW



PACKAGE 1, DRAINAGE IMPROVEMENTS ALONG ST. EMANUEL STREET TO BUFFALO BAYOU (3B-1)

- Construction of drainage outfall to Buffalo Bayou (including drainage box culverts and detention pond), and reconstruction of St. Emanuel St.
- Contract Awarded June 2024
 - Project Cost: \$121.8 Million
 - Contractor: Harper Brothers Construction
 - Construction Began October 2024
 - Anticipated completion in 2027
- Active public engagement and will continue through construction completion





Segment 3B Initial Projects in Detail Design



NHHIP SEGMENT 3B-2 I-69/SH 288 IMPROVEMENTS

Package 2, I-69 between SH 288 and IH 45 South (3B)

- Estimated Construction Cost: \$695.5M
- Construction began January 2025, anticipated completion in 2033
- Active public engagement will continue through construction completion
- Opportunity for arch bridges to incorporate signature design reflecting community input

FOR ALL OF THIS & MORE...



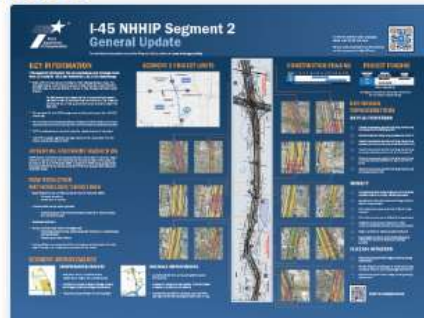
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exhibits & videos

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