



I-45 NHHIP Segment 1 Overview

For additional information about the Project, visit us online at: www.txdot.gov/nhhip

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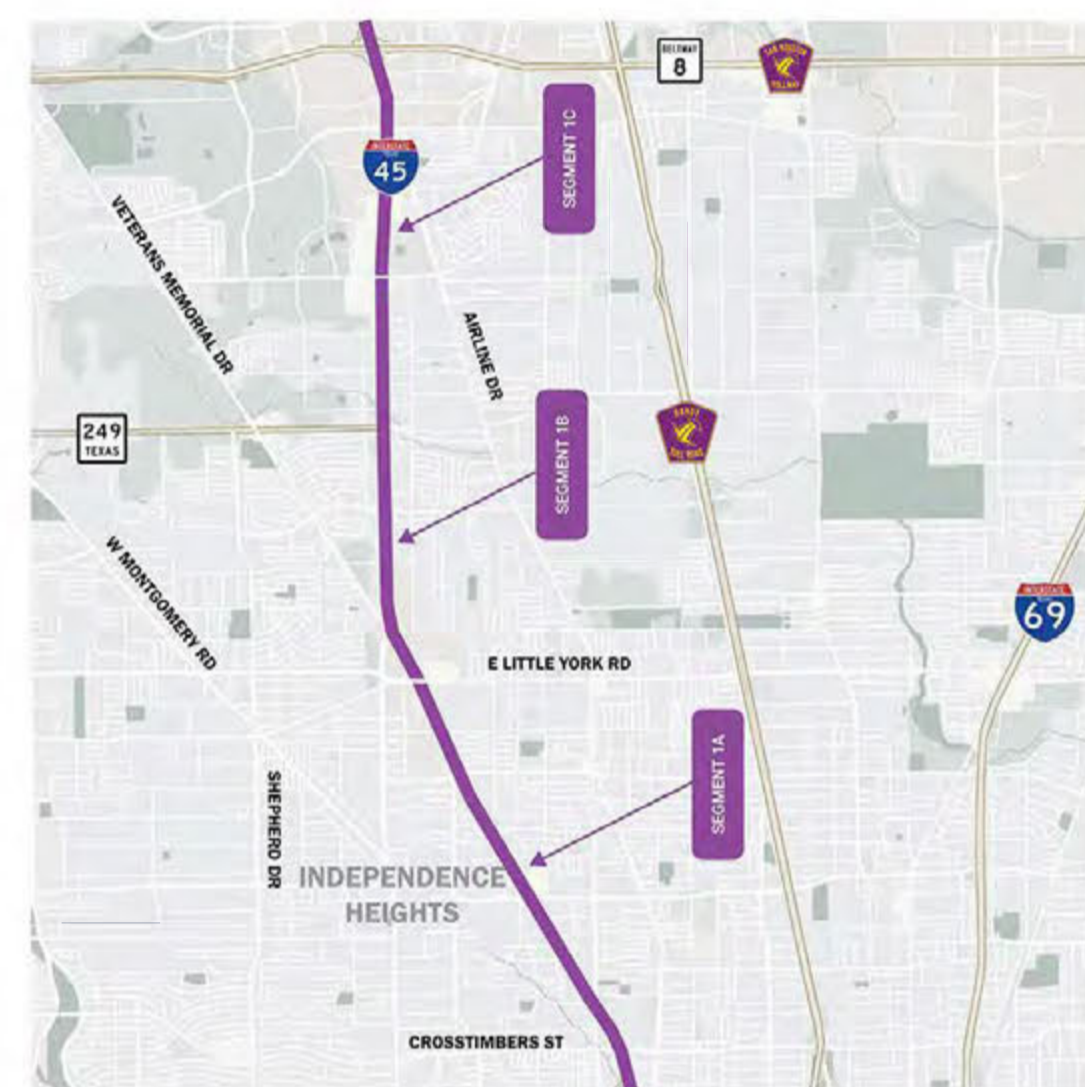
SEGMENT 1 OVERVIEW

Segment 1 encompasses the stretch of I-45 from I-610 to Beltway 8. Planned improvements include upgrades to the mainlanes, frontage roads, drainage systems, and enhanced connectivity between I-45 and Beltway 8.

Due to pending funding, the final design for Segment 1 of the I-45 Project has not yet commenced. However, the basic improvements for this segment were approved with the Record of Decision (ROD) in 2021.

The anticipated timeline to begin Segment 1 construction is 2032, though TxDOT may expedite the schedule as funding becomes available.

The estimated construction cost for this portion of the project is \$1.15 billion.



Construction Phasing

INDEPENDENT PROJECTS	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
1A																
1B																
1C																

Project Funding

INDEPENDENT PROJECTS	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
1A									\$360,000,000							
1B									\$474,018,000							
1C									\$312,590,000							



11 INDEPENDENCE HEIGHTS

Independence Heights, the first African American municipality in Texas, is located within TxDOT's I-45 NHHIP area. TxDOT has committed to preserving the historical significance of this community through actions that enhance storm resiliency, reduce noise, and provide aesthetic improvements, all in support of its rich historic heritage.



Flood Risk Reduction



History Highlighted



Sound Walls



Mitigate Dust & Noise



Small Park/
Green Space



Historic Asset
Documentation

I-45 NHHIP Segment 1 Key Features



1 I-45 Widening
Expand I-45 to include four Managed Express (MaX) lanes, designed to encourage enhanced transit opportunities and improve overall traffic management.



2 Lane Connections
Establish seamless connectivity between the I-45 Managed Express (MaX) lanes and Beltway 8 connectors, optimizing traffic flow and accessibility.



3 Exit and Entrance Ramp
Provide direct access from the I-45 Managed Express (MaX) lanes to the southbound frontage road and northbound exit between Aldine Bender and West Roads, improving traffic flow and local accessibility.



4 General Purpose to MaX Lanes Access
Enable seamless access between I-45 general-purpose lanes and MaX lanes at key points between W. Mount Houston and West Roads, as well as between Tidwell and Parker Roads, improving traffic flow and flexibility for drivers.



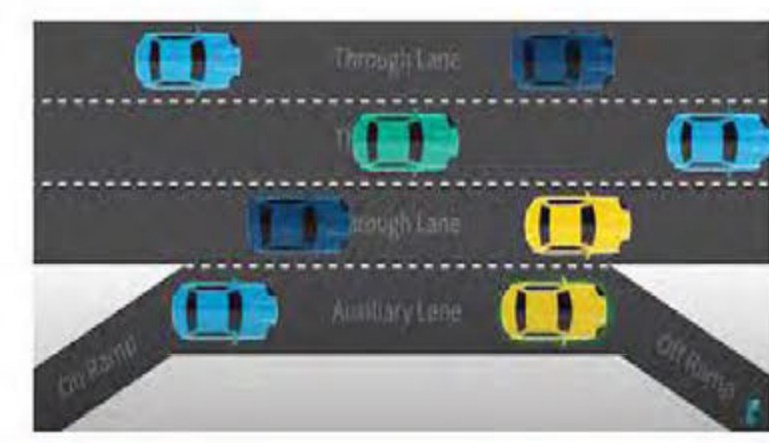
5 Halls Bayou
Expand bridges at the Halls Bayou crossing to support future channel widening, enhancing flood management and infrastructure resilience.



6 Bike/Pedestrian Paths
Addition of bike/pedestrian paths running the length of the corridor to support multi-modal transportation and at each intersection to support connectivity for communities across the corridor.



7 New Proposed Overpass
Construct a new overpass at Blue Bell Road, in alignment with the Memorandum of Understanding (MOU) between TxDOT and the City of Houston, enhancing connectivity and traffic flow.



8 Auxiliary Lanes
Add auxiliary lanes between entrance and exit ramps at select locations to improve traffic flow and enhance safety for drivers.



9 Detention Ponds
Multiple detention ponds have been designed in collaboration with the Harris County Flood Control District (HCFCD) to enhance regional flood resiliency and mitigate stormwater impacts.



10 Lanes and Shoulder Width
Upgrade all lane widths, shoulder areas, and interchange configurations to meet modern design and safety standards, enhancing both traffic flow and driver safety.

Key Takeaways

TxDOT has fully complied with all legal requirements in the planning and evaluation of alternatives and impacts for the NHHIP, making a good faith effort throughout the process. Additionally, TxDOT has committed to numerous significant actions that bring a wide range of benefits to the community.