



North Houston Highway Improvement Project

November 23, 2021

NHHIP OVERVIEW



NORTH-HARDY CORRIDOR OVERVIEW



- **2003: Joint North-Hardy Corridor Alternatives Analysis with METRO, H-GAC and TxDOT**
 - Examined transit and highway needs
 - **Consensus reached to complete transit alternatives analysis prior to beginning highway alternatives analysis**
- **2004: North-Hardy Corridor Alternatives Analysis (Transit Component)**
 - Identified need for direct links between bus service and passenger rail networks
 - Recommended high-capacity transit alternatives for light rail and/or commuter rail from UH Downtown to Bush Intercontinental Airport
- **2005: North-Hardy Corridor Alternatives Analysis (Highway Component)**
 - Recommended highway alternatives from Downtown Houston to Beltway 8 North
- **2011:** Determination made for a comprehensive approach for the downtown highway system (I-45, I-10, I-69 & SH 288) instead of piecemeal highway projects
- **2013: METRO delivers METRO Rail Red Line (light rail)** from UH Downtown to Northline Transit Center (north of IH 610 North between Crosstimbers and Tidwell)
- **2017:** TxDOT issued DRAFT Environmental Impact Statement (EIS) identifying a Proposed Recommended Alternative for each of the 3 segments comprising the North Houston Highway Improvement Project (NHHIP) and received public comments
- **2018 – 2019:** Prepared, published and received public comments on 12 Technical Reports to the EIS
- **2020:** Published the FEIS, Final Technical Reports, collateral materials and received comments
- **2021:** Record of Decision issued on February 3 for the NHHIP.



- **5 in the Top 10 of the Most Congested Roadway Segments in Texas**
- **Need for NHHIP**
 - Existing congestion
 - Future increases in population and employment
 - Future traffic growth
 - Outdated design elements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
 - Improve drainage
 - Maintain effective evacuation routes

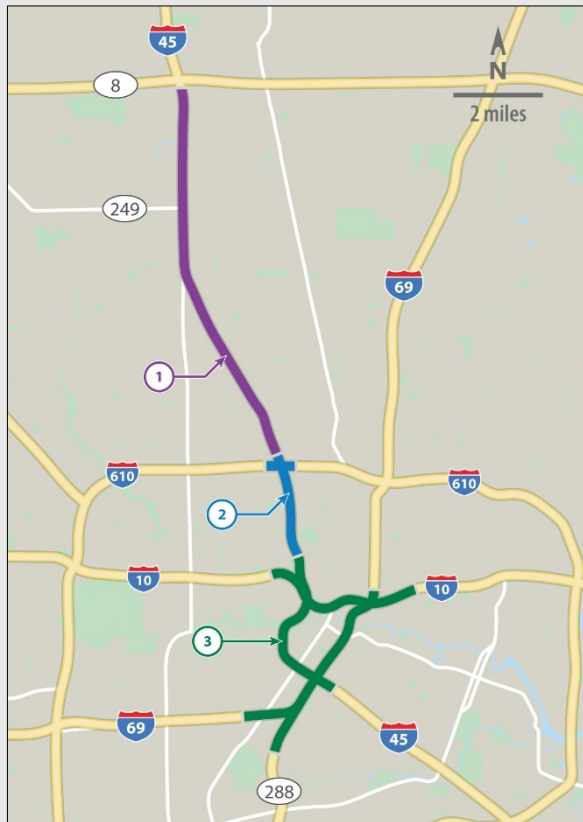
NHHIP PROJECT DEVELOPMENT



Summary of TPC Approvals of NHHIP

DATE OF TPC APPROVAL	TPC APPROVAL	VOTE
April 2005	2025 RTP and Conformity Determination Original Adoption	Passed Unanimously
August 2007	2035 RTP and Conformity Determination Original Adoption	Passed Unanimously
November 2007	2035 RTP Conformity Update	Passed Unanimously
June 2008	2035 RTP Conformity Update	Passed Unanimously
December 2009	2035 RTP Conformity Update	Passed Unanimously
October 2010	2035 RTP Conformity Update	Passed Unanimously
April 2012	2035 RTP Conformity Update	Passed Unanimously
May 2013	2035 RTP Conformity Update	Passed Unanimously
August 2015	2040 RTP and Conformity Determination Original Adoption	Passed Unanimously
April 2016	2040 RTP Conformity Update	Passed Unanimously

DATE OF TPC APPROVAL	TPC APPROVAL	VOTE
February 2017	Commit \$390 M of Category 2 funding to NHHIP Segment 3	Passed Unanimously
December 2017	2040 RTP Conformity Update	Passed Unanimously
January 2018	2017–2020 TIP	Passed Unanimously
May 2018	2019–2022 TIP	Passed Unanimously
May 2019	2045 RTP and Conformity Determination Original Adoption	25 of 28 Present: Voice Vote, Passed Unanimously
July 2019	Commit \$100 M of Category 2 funding to NHHIP Segment 2	24 of 28 Present: 22 Yes, 1 No, 1 Abstain
June 2020	2021–2024 TIP	27 of 28 Present: Voice Vote, Passed Unanimously
March 2021	Resolution supporting NHHIP	25 of 27 Present, Roll Call Vote, Passed 15 to 10



SUMMARY BY NHHIP FUNDING STATUS

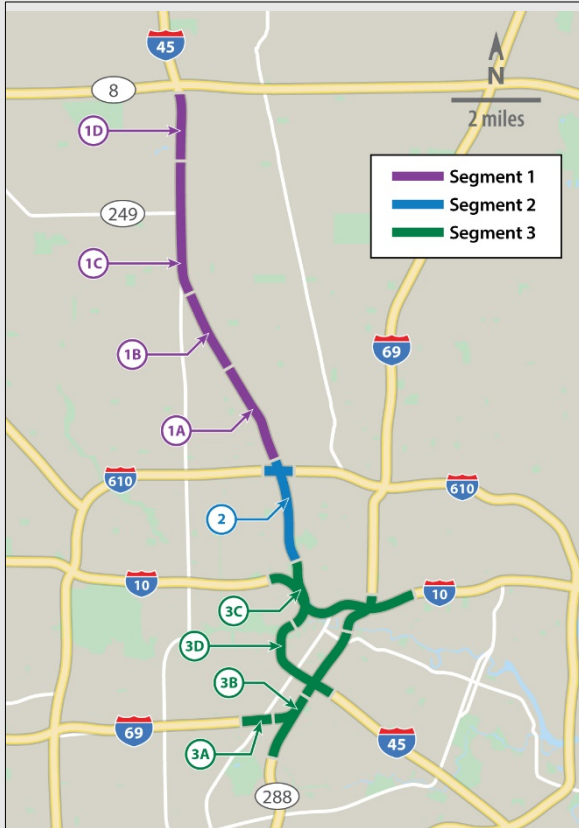
as approved in the 2022 UTP (in millions)

FUNDING CATEGORY	SEGMENT 1 ^a	SEGMENT 2 ^b	SEGMENT 3 ^c	TOTAL	% OF TOTAL
Cat 2	----	\$100.0 M	\$390.8 M	\$490.8 M	6.2%
Cat 3	----	\$112.6 M	\$627.6 M	\$740.2 M	9.3%
Cat 4	----	----	\$953.9 M	\$953.9 M	12.0%
Cat 12 – TTC	----	\$466.3 M	\$207.4 M	\$673.7 M	8.5%
Cat 12 - CL	----	\$122.5 M	\$2,076.9 M	\$2,199.4 M	27.6%
FUNDING SUBTOTAL	----	\$801.4 M	\$4,256.6 M	\$5,058.0 M	63.5%
FUNDING GAP	\$1,700.0 M	\$434.6 M	\$774.4 M	\$ 2,909.0 M	36.5%
TOTAL	\$1,700.0 M	\$1,236.0 M	\$ 5,030.0 M	\$ 7,967.0 M	100.0%

a. 3 projects

b. 1 project

c. 4 projects



DELIVERING NHHIP

SEGMENT	ESTIMATED LET/ CONTRACT AMOUNT	CONSTRUCTION START	CONSTRUCTION COMPLETION
3A DBB ¹	\$488.0 M	2023	2028
3B DB ¹	\$514.1 M	2023	2028
3C DB ¹	\$2,441.9 M	2025	2031
3D DB ²	\$1,587.0 M	2027	2033
2 DB ²	\$1,236.0 M	2029	2034
1A DB ²	\$590.0 M	2029	2034
1B DBB ³	\$360.0 M	TBD	TBD
1C DBB ³	\$350.0 M	TBD	TBD
1D DBB ³	\$400.0 M	TBD	TBD
TOTAL	\$7,967.0 M		

¹ Fully funded in 2022 UTP.

² Partially funded in 2022 UTP.

³ No funding identified in 2022 UTP.

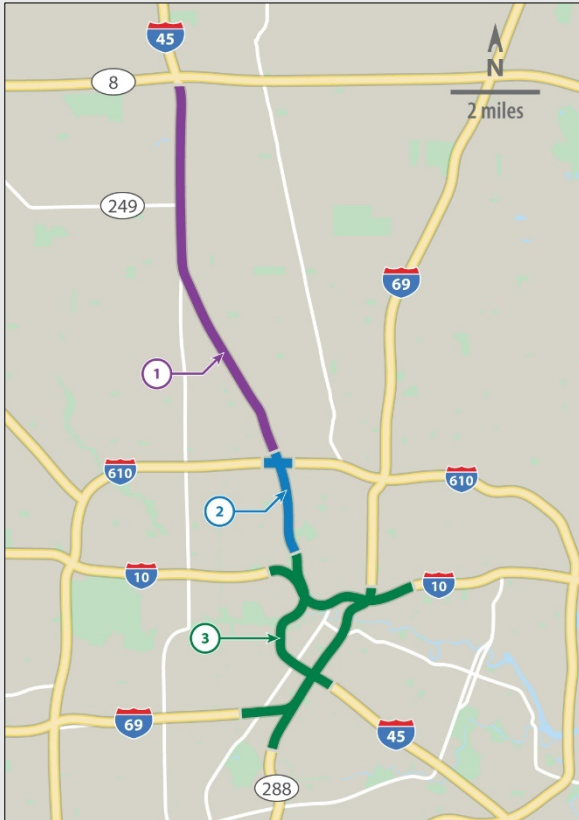
- DBB: Design-bid-build delivery model

- DB: Design-build delivery model



NHHIP PRELIM COST ESTIMATES OF MITIGATION AND COMMITMENTS

NHHIP MITIGATIONS AND COMMITMENTS PER RECORD OF DECISION



DESCRIPTION	PROJECT BASE	ABOVE/ BEYOND BASE
Constructing affordable housing stock	----	\$27.0 M
Compensating directly impacted properties	\$881.1 M	\$64.3 M
Enhanced Residential Relocation Counseling and Community Workshops	----	\$14.8 M
Pedestrian and Bicycle Paths	\$14.9 M	\$17.4 M
Transportation Facilities (freight and transit rail, transit bus and improved local connectivity)	\$278.2 M	\$83.1 M
Air Quality Monitoring and Weatherization	----	\$5.7 M
Noise Mitigation	\$18.4 M	\$8.1 M
Drainage Design, Flood Mitigation and Soil Erosion Control	\$567.1 M	\$20.0 M
Historic Resources	\$3.6 M	\$0.5 M
Hazardous Materials Remediation	\$23.4 M	----
Aesthetics and Green Ribbon Reforestation	\$28.2 M	\$2.0 M
TOTAL Preliminary Cost Estimate	\$1,814.9 M	\$242.9 M

NHHIP EARLY WORK AT RISK

Early Right of Way Acquisitions



- **Agreements Reached**
 - Mexican Consulate – 2019
 - Mach Industries – 2019
 - Clayton Homes (HUD Public Housing) - 2020
 - Greater Mount Olive Baptist Church – 2020
 - Tenemos (low income housing) – 2020
- **Negotiations On-going - ON HOLD as requested by the Federal Highway Administration**
 - Goodwill Baptist Church
 - Midtown Terrace (low income for Veterans)
 - Search Homeless (homeless resource center)
 - Loaves and Fishes (homeless resource center)
 - Kelly Village (HUD Public Housing)
 - University of Houston Downtown
 - City of Houston Police Station



Early Design Work With Stakeholders



- **Performed additional drainage study after Hurricane Harvey**
 - Joint drainage design effort with Harris County Flood Control, City of Houston and TxDOT
- **Developed the Pedestrian and cyclist Realm**
 - Joint effort with City of Houston's Public Works and Planning Departments and; TxDOT
- **Developing early designs with METRO for impacted METRORail Green, Purple and Red Lines - ON HOLD as requested by the Federal Highway Administration**
- **Developing early designs with Union Pacific Railroad for the five impacted rail lines - ON HOLD as requested by the Federal Highway Administration**
- **Developing early designs with CenterPoint, AT&T and Sprint for resolving utility conflicts - ON HOLD as requested by the Federal Highway Administration**

Key NHHIP Take-Aways



- NHHIP is the highway component of the **original joint effort by METRO, H-GAC and TxDOT** that studied transportation needs and proposed improvements to the area between Downtown Houston and Bush Intercontinental Airport.
- NHHIP includes **9 of the Top 100** Most Congested Roadway Segments in Texas, **with five of these being in the Top 10** (as ranked by the Texas A&M Transportation Institute).
- NHHIP strategically adds capacity to **incentivize multi-modal choices** via transit bus mode, high-occupancy vehicle use, as well future proof corridor for vehicle innovations.
- NHHIP would **provide significant flood mitigation** with new pump stations, detention ponds, storm drain systems.
- NHHIP would **significantly improve safety** for pedestrians and cyclists with wider and dedicated space behind protective curbs away from vehicles.
- **\$5 billion (or over 60%) of funding is secured** out of the total current construction cost estimate of \$7.9 billion:
 - Five separate projects being developed to put the \$5 billion to work, these projects will be staggered with construction able to start in 2023.

NHHIP MITIGATIONS



- Compensating for property acquisitions
- Monitoring air quality
- Building noise walls
- Improving drainage on highway and in adjacent neighborhoods
- Improving bus transit mobility
- Improving safety for pedestrians and cyclists



How is TxDOT addressing property impacts?



- Homeowners and renters **will be compensated in amounts so they can remain** in same neighborhood, if they so choose.
 - Additional relocation advisory services to **guide affected residents** through the acquisition of properties and relocation to their new residences.
- **Compensation for impacted public housing** at Clayton Homes and Kelly Village is valued for new construction in Houston's downtown area; **will result in significant improvements over the current conditions.**
- TxDOT is committing **\$27 million** for affordable housing providers to **build new affordable housing stock** in neighborhoods adjacent to the project. **This amount is separate and apart from and is above and beyond the compensation to impacted property owners and renters.**
- After the Record of Decision, design refinements that could reduce the proposed right-of-way footprint will be evaluated.
 - If design refinements were evaluated before the Record of Decision, this would have, at best, delayed the implementation of environmental commitments or, at worst, undermined the validity of the nearly 10-year environmental process.



Compensating homeowners



Example: 2-bedroom, 2-bath home

- Appraised (land plus improvements) value: \$250,000
- Cost of equivalent home in same neighborhood: \$400,000

DIFFERENCE: \$150,000

- **TxDOT's compensation will include** (moving costs paid separately):
 - o Appraised value: \$250,000 ← **fair market compensation**
 - o Replacement value: \$150,000 ← **added compensation**

Total Compensation: \$400,000 ← **fair market plus added compensation**

- **Moving Costs:** all eligible costs are paid by TxDOT



Compensating renters



Example: 2-bedroom, 1-bath apartment

- Current rent payment: \$ 800/mo
- Rent for equivalent apartment in same neighborhood: \$1,200/mo

DIFFERENCE: \$ 400/mo

- **TxDOT will pay rent difference for 42 months** (moving costs paid separately):
 - o Housing Supplement: $\$400/\text{mo} \times 42 \text{ months} = \$16,800$
 - o Housing Supplement is a lump sum check
- **Moving Costs:** all eligible costs are paid by TxDOT



How does the NHHIP reestablishing public housing?



- **Clayton Homes (100% impacted)**
 - TxDOT paying for all 296 units and land (includes 112 units that were closed by HHA due to Hurricane Harvey).
 - TxDOT payment was valued at an amount to afford HHA to replace units in the area.
 - TxDOT pre-payment made well ahead of highway construction, allowing residents to reside in current units while HHA gets jump start on building replacement units.
 - HHA is required to build replacement units within a 2-mile radius of current Clayton Homes locations
- **Kelly Village (29% impacted)**
 - TxDOT would pay 78 units (out of 270 total) and associated land.
 - TxDOT payment is valued at the amount to afford HHA to replace units in the area.
 - TxDOT pre-payment could be made well ahead of highway construction, allowing residents to reside in current units while HHA gets jump start on building replacement units.
 - **This negotiation is ON HOLD at the request of the Federal Highway Administration.**



NHHIP IMPACTED SCHOOLS AND CHURCHES

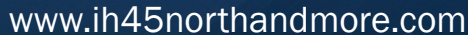


IMPACTED SCHOOLS

A. Culinary Institute Lenorte 7070 Allensby Street	Acquisition started, negotiations on-going
B. Texas Barber College 4479 North Freeway	Acquisition not started

IMPACTED CHURCHES

1. Centrol Cristiano El Alfa y La Omega 5621 North Freeway	Acquired, relocation pending
2. Faith Tabernacle Church 45 Neyland Street	Acquisition not started
3. Iglesia Evangelica 4000 North Freeway	Acquisition not started
4. Greater Mount Olive Baptist Church 1317 North Loop 610	Acquired, relocation pending
5. Goodwill Missionary Baptist Church 3405 Nance Street	Acquisition started, agreement reached, in final stages



1.	Montessori School of Downtown	Within 50-ft of Proposed ROW
2.	University of Houston Downtown	Within 50-ft of Proposed ROW
3.	Secondary Disciplinary Alternative School	Within 50-ft of Proposed ROW
4.	Fifth Ward Head Start Center	Within 50-ft of Proposed ROW
5.	Houston Academy of International Studies	Within 50-ft of Proposed ROW
6.	Aldine Ninth Grade School	50–200 ft. away from Proposed ROW
7.	Houston Community College	50–200 ft. away from Proposed ROW
8.	Bruce Elementary	50–200 ft. away from Proposed ROW
9.	Energy Institute Highway School	50–200 ft. away from Proposed ROW
10.	Young Women's College Preparatory Academy	50–200 ft. away from Proposed ROW
11.	Post Oak High School	50–200 ft. away from Proposed ROW
12.	St. Michael Home for Children	50–200 ft. away from Proposed ROW
13.	Bussey Elementary	More than 200 ft. away from Proposed ROW
14.	Aldine High School Football Stadium	More than 200 ft. away from Proposed ROW
15.	Roosevelt Elementary	More than 200 ft. away from Proposed ROW
16.	Jefferson Elementary	More than 200 ft. away from Proposed ROW
17.	YES Prep Fifth Ward	More than 200 ft. away from Proposed ROW
18.	Young Scholars Academy for Excellence	More than 200 ft. away from Proposed ROW
19.	The International Day School	More than 200 ft. away from Proposed ROW
20.	The Joy School	More than 200 ft. away from Proposed ROW

Air Quality is improving in the Houston Region



The Houston Trends table shows **decreases in CO, NO₂, PM_{2.5} and Ozone levels, while population and vehicle-miles-traveled (VMT) have increased** from 2000 to 2017.

	Population (million)	Daily VMT (million)	1-hour CO (pm)	Annual Mean NO ₂ (ppb)	Annual Mean PM _{2.5} µg/m	8-hour Ozone (ppb)
2000	2.49	91.9	5.7	20.8	14.3	117
2017	4.94	133.0	2.1	14.47	10.4	79
Percentage Change from 2000 to 2017	98%	45%	-63%	-30%	-27%	-32%



■ Air Quality Mitigation:

- TxDOT will use dust suppression during construction.
- TxDOT will fund ambient air monitoring for minimum of five years during construction. Monitoring results will be provided on a publicly accessible website. **This mitigation is an estimated value of \$1.25 million.**

How is TxDOT providing noise mitigation?



- Noise barriers are warranted in certain locations in accordance with applicable criteria.
- In addition to the warranted noise barriers, TxDOT is providing adjacent property owners in environmental justice (high-minority and low-income) areas the opportunity to receive noise mitigation that did not otherwise qualify under the noise analysis criteria. **TxDOT is proposing** this mitigation, in the form of **aesthetic walls**, to further offset adverse effects in high-minority and low-income areas adjacent to the project. These walls could also serve as a visual screen. Adjacent landowners would have the final decision on whether the wall would be constructed.
 - The mitigation in the form of aesthetic walls constitutes a 32% increase in the number of benefitted receivers over the warranted noise barriers and has a estimate value of \$8.1 million.
- Longitudinal tining will be implemented on concrete pavement (less friction means less noise between wheels and pavement).



How is TxDOT providing visual and open/greenspace mitigations?



Community Identity: Elysian St Bridge over I-10

www.ih45northandmore.com

■ Mitigations:

- Uniformly space columns across bayou trails to minimize the “forest of columns” effect.
- Supports local murals and art that represent the culture and shared histories of the community.
- Build detention ponds to accommodate third party funded trails and open spaces.
- Implement reforestation plantings.



Reforestation within the right-of-way: I-10 at I-610 West



How does the NHHIP improve local connectivity and mobility?



- **Segment 1 (Beltway 8 to I-610):**
 - In addition to all 9 existing cross-streets remaining connected, **a new connection is provided at Blue Bell Rd.**
 - METRO's Shepherd Transit Center: Add a direct connection to I-45 Managed Lanes, replacing the existing indirect, circuitous connection via local street network.
 - Reduce cut-thru traffic in neighborhoods by replacing existing direct connection between I-45 reversible managed lanes and Airline Dr. with a direction connection from N. Main St in Segment 2 to I-45 concurrent managed lanes via I-610 Direct Connector Ramps
- **Segment 2 (I-610 to I-10):**
 - Add new frontage road connections at I-45/I-610 Interchange that will keep local trips off the highway and increase local mobility (current local traffic uses main lanes or takes circuitous local routes to make trips across interchange).
 - Mitigation for the removal of North St crossing over I-45 includes:
 - New northbound frontage road from Quitman St to North Main St, improving local mobility.
 - New pedestrian and cyclist facilities from Quitman St to North Main St.
 - Improved pedestrian and cyclist facilities on North Main St crossing over I-45.
 - New pedestrian and cyclist facility on the upper banks of Little White Oak Bayou crossing under I-45 within the State's right-of-way.

How does the NHHIP improve local connectivity and mobility?



- **Segment 3 (Downtown Loop System I-45, I-10, US59/I-69):**
 - **I-69, from Spur 527 I-45 South**
 - New frontage road connections to improve local connections.
 - **I-69, from I-45 South to Buffalo Bayou**
 - New extension of Hamilton Street behind GRB Convention Center which then allows for reconnection of 3 cross-streets over I-69 previously severed by construction of convention center
 - **I-10, from I-69 to I-45 North**
 - Improve safety and mobility of local traffic by grade separating 3 current at-grade railroad crossings.
 - NHHIP will accommodate future extension by the City of Houston of North San Jacinto Street under I-10.
 - **Connectors on westside of Downtown**
 - Andrews Street would be reconnected over the highway with a pedestrian and cyclist only bridge.

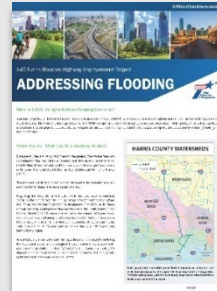
How does the NHHIP reduce flooding?



HARRIS COUNTY WATERSHEDS



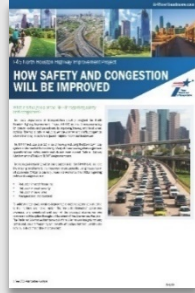
- New Atlas14 Rainfall Data will be used for the NHHIP's drainage systems.
- NHHIP main lanes and managed lanes designed to remain passable in 500-year storm event.
- Pump stations will pump storm water into detention basins.
- Detention basins will hold storm water until it can be released safely into receiving bayou.
- TxDOT has been an engineering partner and is prepared to a financial partner with the City of Houston and Harris County Flood Control for two bypass canals along Buffalo Bayou in Downtown.



TxDOT's response to ask for less vehicles/more transit capacity



- **NHHIP is the highway component** of the North Hardy Corridor Study, a joint effort by TxDOT, METRO and HGAC to evaluate the multi-modal transportation needs between Downtown Houston and Bush Intercontinental Airport.
 - **METRO delivered the transit component** with the Red Line light rail extension from downtown to the Northline Transit Center in 2013.
 - Vast majority of the **added capacity of the NHHIP** is in the form of non-toll managed lanes, which would **greatly expand operations for METRO's transit bus service and carpool vehicles**.
 - **Mayor Turner** has asked TxDOT to evaluate impacts to traffic, including truck freight mobility with **the City's proposed reduction of the 4-lane (2 in each direction) managed lanes facility to a 2-lane bus transit only facility (1-lane in each direction)**; carpool vehicles would mix with regular traffic. This would not meet the project's purpose and need and would **essentially become a transit project** since it would not be accessible to carpool vehicles.
 - Freight truck mobility would be addressed on NHHIP interstate highways of I-45, I-69 and I-10. **The NHHIP occupies three spots (#5, #17, #22) in the Top 25** in the American Transportation Research Institute's 2021 Top 100 Truck Bottleneck across the nation.
 - The NHHIP has been guided by and developed in accordance with H-GAC Regional Transportation Plan (RTP) and the supporting Air Quality Conformity Determination Report, beginning in 2005 with the 2025 RTP/Conformity Determination and **most recently in 2019 with the 2045 RTP/Conformity Determination**.



How does the NHHIP improve pedestrian and cyclist facilities?



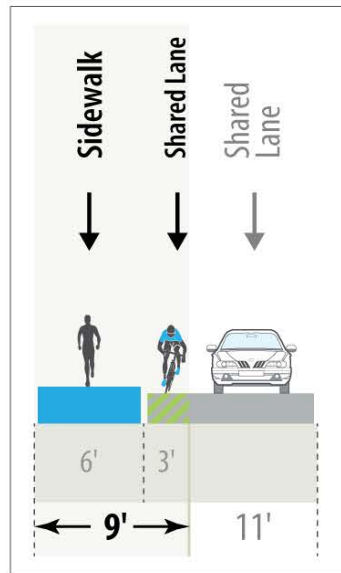
- **New pedestrian-cyclist realm concept** will be implemented on cross-streets and frontage roads; subject to availability of right-of-way.
 - **Significantly increases** the space for pedestrians and cyclists.
 - Creates space for cyclists **behind protective curb**, not with vehicles in the outside travel lane.
 - **Developed in collaboration** with the City of Houston's Public Works and Planning Department and is aligned with City of Houston's cyclist Plan.
 - **Increases neighborhood connectivity** for pedestrians and cyclists
 - **The additional space over and above the typical approach is valued at \$17.4 million**
- NHHIP reconnects Walker Street, with a pedestrian and cyclist only crossing over the highway (previously cut off by the GRB Convention Center). This is a reconnection is critical because it will be directly aligned with the highly valued Columbia Tap Trail east of the project limits.
- NHHIP reconnects Andrews Street, with a pedestrian and cyclist only bridge (previously cut off by I-45). This is a significant reconnection within Freedmen's Town, spanning Downtown's Central Business District and Fourth Ward, a historic African American neighborhood.
- Highway elements over bayous will be placed in order to accommodate pedestrian and cyclist facilities on the upper banks of the bayous.
- Proposed detention ponds will be evaluated to accommodate new trail connections on the upper perimeter banks of ponds.



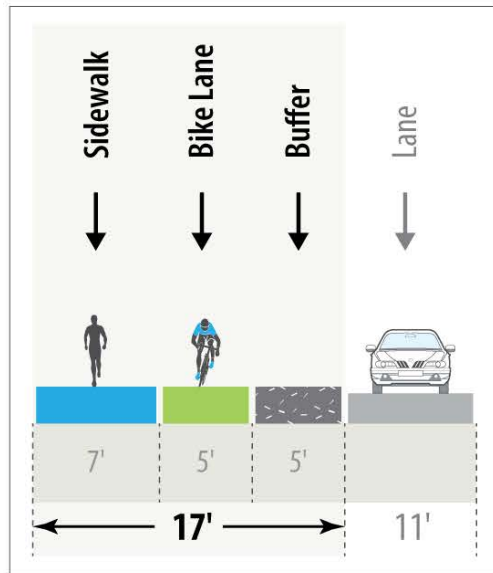
Proposed pedestrian–cyclist realm on all 61 crossings of the NHHIP



CROSS-STREETS WITH A BIKE LANE, NHHIP NEARLY DOUBLES THE SPACE

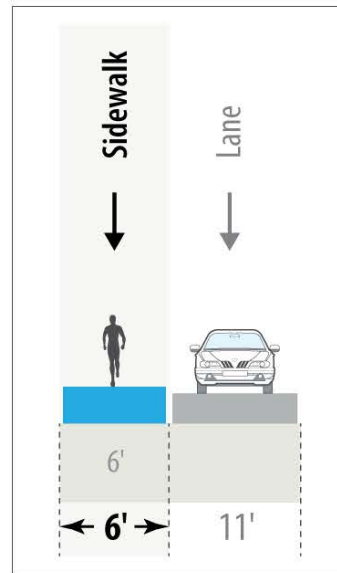


Typical approach

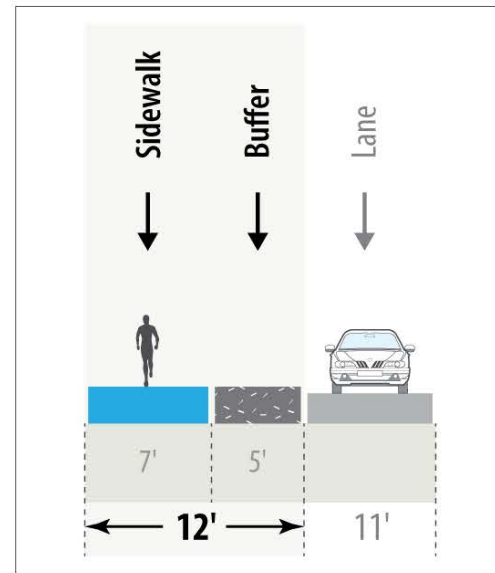


Proposed NHHIP approach

CROSS-STREETS WITHOUT A BIKE LANE, NHHIP DOUBLES THE SPACE

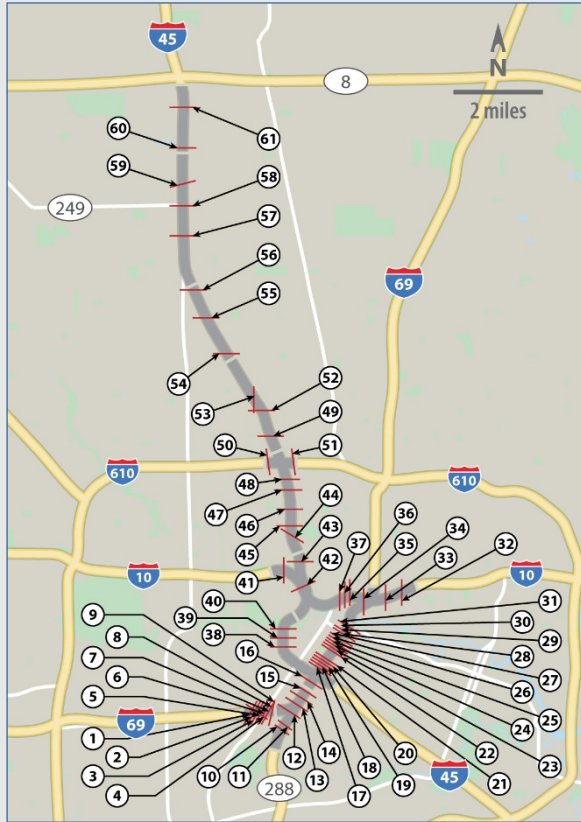


Typical approach



Proposed NHHIP approach

Proposed pedestrian–cyclist realm on all 61 crossings of the NHHIP



1. Main St.
2. Fannin St.
3. San Jacinto St.
4. Wheeler Ave. over IH-69
5. Caroline St.
6. Austin St.
7. La Branch St.
8. Cleburne St. over IH-69
9. Almeda St.
10. Wheeler under SH 288
11. Cleburne St.
12. Alabama St.
13. Elgin St.
14. Tuam St.
15. McGowen St.
16. Gray St.
17. Pierce St.
18. St. Joseph Pkwy.
19. Jefferson St.
20. Pease St.
21. Leeland St.
22. Lamar St.

23. McKinney St.
24. Walker St.
25. Rusk St.
26. Capitol St.
27. Texas Ave.
28. Preston St.
29. Congress St.
30. Franklin St.
31. Commerce St.
32. Gregg St.
33. Meadow St.
34. Jensen Dr.
35. Pedestrian Bridge
36. Hardy St.
37. McKee St.
38. Andrews St.
39. Dallas St.
40. Allen Parkway
41. Houston Ave. over IH-10
42. Hogan St.
43. Quitman St.
44. N. Main St.

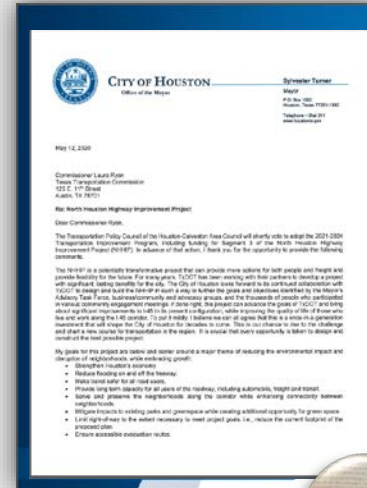
45. Cottage St.
46. Patton St.
47. Cavalcade St.
48. Link Rd.
49. Stokes St.
50. Airline Dr. under IH-610
51. Fulton St.
52. Crosstimbers St.
53. Airline Dr. under IH-45
54. Tidwell Rd.
55. Parker Rd.
56. Little York Rd.
57. Gulf Bank Rd.
58. West Mt. Houston/SH 249
59. Blue Bell Rd.
60. West Rd.
61. Aldine Bender/FM 225

NHHIP PUBLIC ENGAGEMENT

How did/is TxDOT engaging the public about the NHHIP?



- Before Draft Environmental Impact Statement
- Draft Environmental Impact Statement
- Revised Technical Reports
- Mayor's Facilitation Effort
- Traffic Management Steering Committee
- Housing & Communities Focus Group
- Final Environmental Impact Statement





Time Period	Topic	Metric	Count
2011-2019	Public and stakeholder meetings	Meetings	310+
Summer 2017	Draft Environmental Impact Statement	Commenters	465+
2018-2019	12 Technical Reports	Commenters	130+
2019-2020	Mayor's Facilitation Effort	Meetings	22
2019-2020	Traffic Focus Group	Meetings	24
2020	Housing Focus Group	Meetings	4

Public Engagement with the NHHIP Final EIS



POSTCARD



PROJECT VIDEO



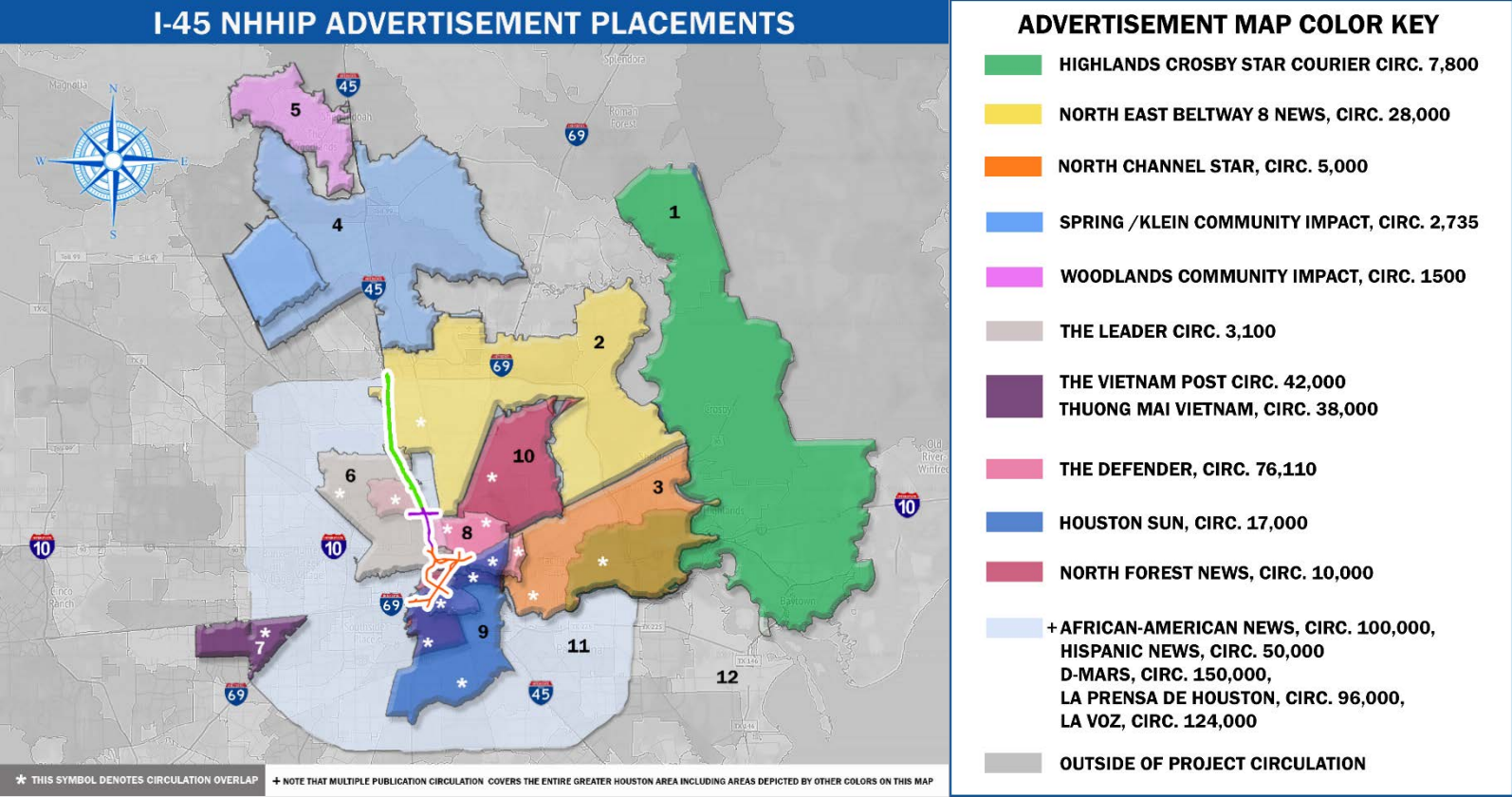
- Mailed Postcards to Impacted Property Owners
- Published “Changes for the Better” Video
- Published NHHIP Newsletter, *Fall 2020 Edition*
- Extended the Final EIS review period, doubling the review time.
- Advertisements in 15 community newspapers to share project information.
- Published 12 “NHHIP Project Facts & Highlights” White Papers
TxDOT prepared a series of white papers to help convey concise and key information on topics of high-priority to the public.

12 FACTS & HIGHLIGHTS PAPERS



1. Addressing Flooding
2. Air Quality Is Improving
3. Changed For The Better
4. Design Specific Requests & Responses by NHHIP Segment
5. Frequently Asked Questions
6. How Safety & Congestion Will Be Improved
7. Lowering The Highway
8. Minimizing Community Impact
9. Pedestrians & Bicyclists Accommodations
10. Visual & Aesthetic Treatments
11. What If NHHIP Impacts My Property?
12. What Is A FEIS?

Public Engagement with the NHHIP Final EIS



Stakeholder Engagement for Affordable Housing



- NHHIP Housing & Communities Focus Group
 - Explore and Define Best Practices
 - Identify Effective Impact Mitigation Strategies
 - Uncover Opportunities to Leverage Existing Efforts, Programs and Resources
 - Deploy Strategies to achieve Win/Win Solutions during Project Implementation



Focus Group Members

1. The Honorable Zinetta Burney, Burney and Foreman
2. Kenya Burrell-VanWormer, KBurrell Properties
3. Algenita Davis, Center for Civic & Public Policy Improvement
4. Tanya Debose, Independence Heights Redevelopment Council
5. Belinda Everette, NAACP Houston Branch—Housing Committee
6. Dr. Robert Muhammad, SE Management District-Transp. Committee
7. Mary Lawler, Avenue Community Development Corporation
8. Dr. Carol Lewis, Texas Southern University
9. Mardie Paige, Independence Heights Super Neighborhood Council
10. Rudy Rasmus, St. John's United Methodist Church
11. Dr. Jonita Reynolds, Gulf Coast Community Services Association
12. Judson Robinson, Houston Area Urban League
13. LaRence Snowden, Houston Housing Authority
14. Gerald Womack, Womack Development and Investment Realtors
15. City of Houston
 - Marissa Aho, Chief Resiliency Officer
 - Shannon Buggs, Direct of Complete Communities
 - Takasha Francis, Director of Department of Neighborhoods
 - Margaret Wallace Brown, Director of Planning and Development
 - Tom McCasland, Director of Housing and Community Development
 - Marsha Murray, Director of Office of Business Opportunity
 - Nicole Smothers, Division Manager of Community Sustainability
16. Fifth Ward Community Development Corporation
 - Deshara Goss
 - Kathy Payton



- **Charter:** Support the exploration, planning, advancement and execution of strategies to support traffic management initiation during construction
- **Primary Goal:** Explore, plan, execute strategies to support sound, innovative and proactive traffic management initiatives for NHHIP construction to minimize adverse impacts to the community
- **Targeted Key Outcomes:**
 - Enhance safety, connectivity and mobility
 - Long-term change in use of alternative travel modes
 - Enhance accessibility
 - Build the capacity and ability to respond to future challenges
 - Minimize adverse impacts to businesses and communities during construction
 - Promote economic growth and community sustainability

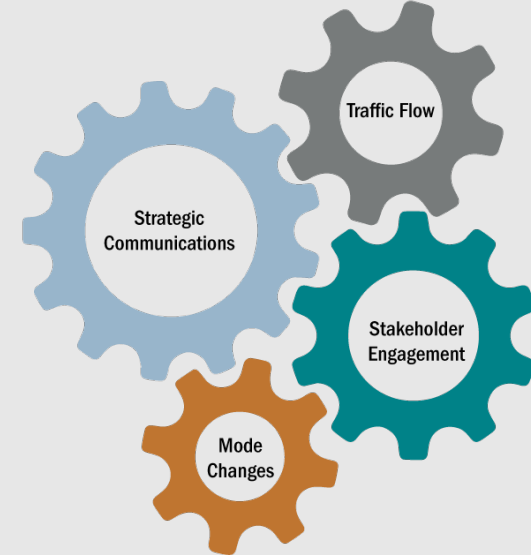
Steering Committee

* Representation can be delegated

1. Alan Clark, H-GAC
2. Bob Eury, Downtown Management District
3. TxDOT
 - Commissioner Laura Ryan
 - Eliza Paul
 - Varuna Singh
 - James Koch
 - Grady Mapes
 - Raquelle Lewis
 - Paul Eley
 - Melody Galand

4. Harris County Engineering
 - Judge Hidalgo*
 - Lloyd Smith, Engineering Dept.
 - Brannan Hicks, Engineering Dept.
5. City of Houston
 - Mayor Turner*
 - Jeff Weatherford, Public Works Dept.
6. METRO
 - Tom Lambert
 - Tim Kelley

4 Workgroups



NHHIP Public Involvement 2011–2015



2011–2013

2014

2015

Nov 2011

- Participating Agency Mtg
- Cooperating Agency Mtg
- Public Mtg
- Public Mtg

Oct 2012

- Public Mtg
- Participating Agency Mtg
- Cooperating Agency Mtg
- Public Mtg

Aug 2013

- Coordination Mtg w/HDMD

Nov 2013

- Agency Coordination Mtgs
- Public Mtg #3 (Seg 1)
- Public Mtg #3 (Seg 2 & 3)

Jan 2014

- Mtg w/Seg 1 Property Owners/ Greater Northside Mgmt Dist
- Coordination Mtg w/METRO

Feb 2014

- Status Update to North Houston Association (NHA) Transportation Committee
- Coordination Mtg w/HDMD
- Mtg w/Rep Carol Alvarado
- NHHIP Presentation to H-GAC TPC

Apr 2014

- Coordination Mtg w/HDMD

May 2014

- Coordination Mtg w/HDMD/EaDo

June 2014

- Coordination Mtg w/ Downtown Stakeholders
- Coordination Mtg w/ HDMD/EaDo/COH
- Coordination Mtg w/ HDMD

Sept 2014

- Mtg w/Greater Northside Mgmt Dist

Jan 2015

- Downtown Mgmt Dist Coordination Mtg
- Greater Northside Mgmt Dist Coordination Mtg

Feb 2015

- Hou Downtown Mgmt Dist Coordination Mtg

May 2015

- Briefing to Houston Chronicle Editorial Board
- Coordination Mtg w/Gulf Coast Rail Dist (GCRD), UPRR and HCFC
- H-GAC TAC
- Prj Briefing at East Downtown (EaDo) Mgmt Dist Board Mtg

June 2015

- HDMD Design Workshop for Seg 3 (East Downtown)
- Coordination Mtg w/LAN (Engineer for COH 72" Waterline)
- Coordination Mtg w/Hou First, Hou Sports Authority, Hou Astros, Hou Dynamo

July 2015

- Coordination Call w/HDMD/SWA
- Briefing to City of Houston Leadership
- Coordination Mtg w/GCRD
- Coordination Mtg w/H-GAC/CDM

Aug 2015

- Conf Call Mtg w/HDMD/SWA
- Community Mtg w/Greater Northside Mgmt District & Key Stakeholders
- Coordination Mtg w/HDMD/SWA

Sept 2015

- Conf Call Mtg w/HDMD/SWA
- Coordination Mtg w/Downtown Stakeholders/COH/HDMD
- Design Wkshp w/Downtown Stakeholders/COH/HDMD
- Prj Briefing to the South Main Alliance/Museum Dist Super Neighborhood Public Mtg

Apr 2015

- Coordination Mtg w/University of Houston Downtown
- Public Mtg #4 Dress Rehearsal
- Houston Chronicle Interview w/Dug Begley
- Public Mtg #4 (Seg 1 Mtg)
- Debrief of Public Mtg #4 to Rep Jessica Farrar

- Prj Discussion w/Reader's Warehouse Property Owner
- Prj Briefing at Qtrly Mtg of the Lindale Park Civic Club (LPCC)
- Prj Briefing to Hou Parks Board

- Conference Call w/Seg 3 Developer
- H-GAC TPC Mtg
- Mtg w/Seg 3 Developer
- Bi-weekly Team Coordination Mtg

- NHHIP Panel Discussion - American Institute of Architects (AIA)
- Seg 3 Design Workshop w/HDMD/SWA
- Prepare for and Attend Coordination Mtg w/HCTRA
- Coordination Mtg w/HDMD/COH

- Mtg w/Oscar Slotboom
- Mtg w/Rice Design Alliance to Discuss Potential Deck Park Designs
- Prj Briefing to Avenue Place Civic Club

- Coordination Mtg w/Hou First/ Gensler (GRB Operations)
- H-GAC Presentation Regarding US-59 Improvement Prj

Oct 2015

- Coordination Mtg w/HCFC
- Attend ThinkBike Wkshp by COH/HDMD
- Coordination Mtg w/TxDOT/COH
- Prj Briefing at HNCC Board Mtg

Dec 2015

- Coordination Mtg w/TxDOT/COH
- Coordination Mtg w/TxDOT/Ecclesia Church Property Owner
- Coordination Mtg w/TxDOT/HDMD/EaDo/COH/etc.

Nov 2015

- Prj Briefing to the Midtown Redevelopment Authority
- Prj Briefing to the OST/Greater Southeast Mgmt Dist
- Coordination Mtg w/HDMD/COH
- Central Hou Inc (CHI) Qtrly Board Mtg (TX Transportation Commissioner Jeff Moseley)
- Coordination Mtg w/TxDOT/COH

- Coordination Mtg w/TxDOT/ Hou Parks Board
- Prj Briefing to the COH TIRZ #15 Board of Directors and East Downtown Redevelopment Authority
- Prj Briefing to the Risk Management Association
- Coordination Mtg/Wkshp w/TxDOT/HDMD/EaDo/COH/etc.

NHHIP: Public Involvement 2016–2017



2016

Feb 2016

- Briefing to Mayor Turner's Transition Team
- Prj Briefing to TIRZ #21
- Prj Briefing to East End Cultural Dist Tour
- Prj Briefing to Greater Northside Mgmt Dist
- Coordination Mtg w/TxDOT/Hou First/GRB Reps
- Coordination Mtg w/TxDOT/Cheek Neal Coffee Bldg Owner
- Coordination Mtg w/TxDOT/Gulf Coast Rail Dist (GCRD)

Apr 2016

- Prj Briefing to Kinder Foundation
- Meet w/Property Owner (Macey Family) Impacted by Prj
- Coordination Mtg w/East Village Project (EaDo)

June 2016

- Mtg w/Property Owner at 1200 Rothwell
- Present to RTP Subcommittee
- Workshop #2 with METRO
- Present to AGC (Associated General Contractors)
- Present to University of Houston Downtown (UHD) Leadership

Aug 2016

- Mtg w/Hou City Council Transportation Subcommittee
- Presentation at East Bayou Civic Club Community Mtg
- Mtg w/Developer of Old Post Office Downtown (Lovett Commercial)
- Mtg w/Tory Gaddis and Oscar Slotboom

Mar 2016

- Prj Briefing to Memorial Dr United Methodist Church Men of Action Group
- Prj Briefing to Independence Heights Redevelopment Council (IHRC)
- Mtg w/TxDOT/Tory Gattis/Oscar Slotboom/Dug Begley (Chron)/Purple.City blogger
- Coordination Mtg w/TxDOT/HDMD
- Coordination Mtg w/TxDOT/Greenspoint Mgmt Dist

May 2016

- Mtg w/Tory Gaddis and Oscar Slotboom
- Presentation to Super Neighborhood 64 (Greater Eastwood)
- Present Project to ASCE at Monthly Technical Session
- Briefing to Super Neighborhood 64
- I-69 Bike Crossing Discussion (Internal Team)

July 2016

- Mtg w/HDMD
- Mtg w/Harris County Flood Control Dist Historic Consultant (SWCA)
- Briefing to Midtown Mgmt Dist

Sept 2016

- Mtg w/Pleasantville Civic League
- Prj Briefing to BISNOW (Future of EaDo)

Dec 2016

- Mtg w/COH/Transystems Regarding Navigation/Commerce Intersection
- Mtg w/TIRZ 15/EDRA

2017

Jan 2017

- Mtg w/David Denenburg RE Cheek Neal Bldg
- Mtg w/COH Recreation Dept
- Mtg w/Tory Gaddis and Oscar Slotboom
- Mtg w/South Main Alliance
- Mtg w/COH Parks and Recreation Dept

Apr 2017

- Tour of Cheek Neal Bldg & Sterling Mansion
- Mtg w/Midway Companies RE East River Development (former KBR Site)

May 2017

- Mtg w/EaDO
- Public Hearing #1
- Public Hearing #2
- Public Mtg at St. Arnold's
- EaDo Board Mtg
- Navigation/Commerce Coordination (Transystems, GCRD, COH)
- Hou Housing Authority/TxDOT Community Mtg #1
- Presentation to H-GAC TAC
- Hou Housing Authority/TxDOT Community Mtg #2
- Mtg w/COH Transportation/Technology and Infrastructure (TTI) Committee
- Mtg w/East Bayou Civic Club/5th Ward/5th Ward Redevelopment/Pastor
- Mtg w/Hou Parks Board
- H-GAC TPC
- Mtg w/Chenevert Condos
- Cooperating Agency Mtg
- Participating Agency Mtg
- Mtg w/COH Parks and Recreation Dept

Feb 2017

- Mtg w/COH Parks Dept/COH Public Works
- Mtg w/Hou Housing Authority (HHA)
- Mtg w/David Denenburg re. Cheek Neal Bldg
- Presentation to NHA
- Mtg w/Greater Northside Mgmt Dist

June 2017

- Greater Northside Mgmt Dist Board Mtg
- Super Neighborhood Alliance Board Mtg
- Mtg w/COH PWE
- Rice University Design Alliance Board Mtg
- Mtg w/Seg 1 Property Owner and Engineer (Dannenbaum)
- UHD Coordination Mtg

Aug 2017

- Prj Briefing at Greater 5th Ward Super Neighborhood Board Mtg
- Coalition Mtg (Mike Skelly Group)
- Coordination w/Montrose/Midtown Super Neighborhood
- IAJR Coordination w/FHWA
- Super Neighborhood Alliance/3rd Ward/4th Ward/5th Ward
- Bethlehem Baptist Church
- Coordination Mtg w/HDMD
- HDMD Coordination Mtg
- Mtg w/COH/CHI

Nov 2017

- Near Northside Complete Communities Public Mtg
- 2nd Ward Complete Communities Public Mtg

Mar 2017

- Mtg w/Hou Housing Authority (HHA)/TxDOT ROW Division
- Mtg w/Hou First
- Mtg w/TIRZ 15/EHRA
- Mtg w/Super Neighborhood Alliance

July 2017

- UPRR Coordination Mtg
- HDMD Coordination Mtg
- Prj Briefing to UPRR
- NHHIP Historic and ICI Coordination Mtg
- CenterPoint Coordination Mtg
- Mtg w/Buffalo Bayou Partnership and Consultants
- Stakeholder Mtg for TIRZ No. 7

Sept 2017

- Prj Briefing at First Montrose Commons Neighborhood Association Community Mtg

Oct 2017

- Coordination Mtg w/COH Regarding Midtown Deck Park
- Follow Up Mtg w/Coalition Group (Mike Skelly Group)
- 3rd Ward Complete Communities Public Mtg

Dec 2017

- Coordination Mtg w/GNMD
- Mtg w/SHPO



2018

Jan 2018

- METRO LRT Coordination Mtg
- COH Coordination Mtg
- EaDo Board Mtg
- Coordination Mtg w/Coalition Group
- HGAC Coordination Mtg
- Coordination Mtg w/Coalition Group

Feb 2018

- Coordination Mtg w/Coalition Group
- Coordination Mtg w/METRO
- Coordination Mtg w/Coalition Group
- Coordination Mtg w/UHD (Field Mtg w/Chris McCall)
- TxDOT ENV Coordination Mtg (in Austin)
- Coordination Mtg w/Coalition Group

Mar 2018

- Coordination Mtg w/TxDOT, CHI, and UPRR
- Coordination Mtg w/TxDOT, COH, and Parks Dept
- Mtg w/Loaves & Fishes
- Prj Briefing to Carlton Woods
- Old Spanish Trail Community Partnership
- Coordination Mtg w/Coalition Group
- Coordination Mtg w/COH Parks and Recreation Dept.

Apr 2018

- Coordination Mtg w/Independence Heights & Coalition Group
- Prj Briefing to the New Zealand Delegation Members
- Prj Briefing to Hou Museum Dist Board

May 2018

- Coordination Mtg w/HDMD to Discuss West Downtown Area

June 2018

- Coordination Mtg w/TIRZ 15 Reps to Provide Prj Status
- Attended Harris County Pct 1 Complete Communities Third Ward Mobility Workshop
- Attended TIRZ 15 Board Mtg to Provide Prj Update
- Coordination Mtg w/UPRR to Discuss Existing RR Facilities and Potential Impacts w/NHHIP

July 2018

- EaDo Board Mtg
- Midway Developers/BGE
- Prj Briefing to East End Chamber of Commerce
- UHD Coordination Mtg
- Coordination Mtg w/METRO

Aug 2018

- Coordination Mtg w/COH to Discuss the City Street Crossing and Criteria for Seg 3
- Weekly Team Coordination Mtg
- Coordination Mtg w/HGAC to Discuss the CMP Form

Sept 2018

- Prj Briefing to East End Dist
- Prj Briefing to Near Northside Mgmt Dist Board
- HDMD/Bufalo Bayou Mtg RE Drainage

Oct 2018

- Coordination Mtg w/BGE and Ergonomic Transportation Solutions to Discuss Jensen Exit Ramp Along I-10

Nov 2018

- Coordination Mtg w/Houston Near Northside Civic Club to Discuss Seg 2 Design

Dec 2018

- Coordination Mtg w/Greater Northside Mgmt Dist to Discuss Seg 3 Design
- Meeting w/COH

NHHIP: Public Involvement 2019



2019

Jan 2019

- Coordination Mtg w/Bike Hou
- Coordination Mtg w/Greater Southeast Mgmt Dist
- Mtg w/Hou Housing Authority (HHA)

Feb 2019

- Mtg w/Midway Companies

Mar 2019

- Mtg w/Greater Mt Olive Missionary Baptist Church
- Coordination Mtg w/North Hou Dist
- Mtg w/Coalition for the Homeless and COH

Apr 2019

- Coordination Mtg w/COH Facilitation Committee Leaders

May 2019

- Mtg w/Hou ISD Reps
- Mtg w/Aldine ISD
- Coordination Mtg w/COH Facilitation Committee Leaders (Phone)
- Coordination Mtg w/COH Facilitation Committee Leaders
- Meeting with HISD School Reps
- Meeting with AISD School Reps
- Meeting with Consulting Parties (Historic)

June 2019

- Residential and Community Seg 1 Mtg
- Residential and Community Seg 2 Mtg
- Residential and Community Seg 3 Mtg #1
- Residential and Community Seg 3 Mtg #2
- COH Facilitated Seg 1 Public Mtg
- COH Facilitated Seg 2 Public Mtg
- Meeting with Property Owners
- Community Stakeholder Meeting
- Meeting with Jefferson ES Wraparound Resource Specialist
- Community Stakeholder Meeting
- Independence Heights Neighborhood Meeting
- H-GAC Transportation Advisory Committee
- City of Houston - TxDOT - Meeting with General Public
- Centro Cristiano Church
- City of Houston - TxDOT - Meeting with General Public
- H-GAC Transportation Policy Council

July 2019

- Meeting with Property Owners
- Meeting with Complete Communities representatives
- H-GAC Transportation Advisory Committee
- Third Ward Neighborhood Meeting
- H-GAC Transportation Policy Council
- Meeting with Ronnie Self

August 2019

- National Night Out - Precincts 1, 2, 6 Neighborhood Meeting
- Meeting with Property Owners
- Fifth Ward Neighborhood Meeting
- Near Northside Back to School Event Neighborhood Meeting
- COH Community Workshop - Meeting w/General Public
- Meeting with Property Owners
- Precinct 1 Back to School Event Neighborhood Meeting
- COH Community Workshop - Meeting w/General Public
- Meeting with Property Owners

Sept 2019

- IH-45 NHHIP Traffic Management Steering Committee & Workgroups Kickoff Meeting
- TPC meeting

Oct 2019

- SH 288 Improvement Project-storm pump station and infrastructure update to OST/Alameda Corridors Redevelopment Authority Board/TIRZ number seven
- NHHIP Segment 3/Downtown

Nov 2019

- COH-TxDOT Meeting on NHHIP
- City of Houston meeting-community workshop for Segment 3 NHHIP
- ACEC Houston Emerging Leaders Class of 2019-2020
- Greater Houston Partnership Quality of Place Committee meeting
- TPC meeting
- Houston Downtown Development & Mobility Charrette

Dec 2019

- Baytran's Galveston County Transportation Summit
- Northern Trust "C" Club general lunch meeting
- Special SMA Transportation Committee meeting

NHHIP: Public Involvement 2020



2020

Jan 2020

- IH-45 Segment 3 DB project industry workshop
- IH-45 Segment 3 DB procurement RFQ industry workshop materials review
- TRB Conference - Congressional Delegation Visits
- NHHIP Segment 3 Design-Build (DB) Project - Industry Workshop
- NHA Membership Luncheon
- HCA January Forecast Luncheon
- TPC meeting

Feb 2020

- NHHIP IH-45 housing focus group meeting
- University of Houston Civil and Environmental Engineering Alumni Luncheon

Mar 2020

- 25th Annual Cigmat Conference
- Commissioner New visit to Houston District/ Elected Official Briefing
- Mayor Sylvester Turner Meeting
- TPC meeting

Apr 2020

- NHHIP Facilitation Group Meeting
- Mayor Turner's IH-45 NHHIP meeting with Commissioner Ryan
- TPC meeting

May 2020

- TPC meeting
- NHHIP Housing & Communities Focus Group Meeting

June 2020

- TxDOT/Central Houston monthly coordination meeting
- TPC meeting

July 2020

- TPC meeting
- Fort Bend Chamber of Commerce infrastructure event

Aug 2020

- Bernstein Realty Breakfast Bites speaking engagement
- TPC Workgroup-NHHIP MOU-first meeting
- TPC Workgroup-NHHIP MOU-second meeting
- GHP Transportation Committee meeting
- TPC meeting
- SH 288 Improvement Project update to OST/Almeda Corridors Redevelopment Authority Board/TIRZ Number Seven

Oct 2020

- TPC NHHIP MOU Workgroup (Oct. 1)
- TAG State of TxDOT 2020
- TPC NHHIP MOU Workgroup (Oct. 8)
- NHHIP Housing & Communities Focus Group Mtg 3 (Part B)
- WTS Advancing Women Advancing Transportation
- NHHIP Facilitation Group public meetings/workshops (Oct. 20)
- APWA/CIP briefings
- NHHIP Facilitation Group public meetings/workshops (Oct. 22)
- TPC NHHIP MOU Public Meeting
- TPC meeting
- NHHIP Facilitation Group public meetings/workshops (Oct. 24)
- OST Community Partnership virtual town hall meeting
- NHHIP IH-45 update with Senator Whitmire
- NHHIP IH-45 update with Senator Carol Alvarado

Nov 2020

- Texas American Society of Civil Engineers (ASCE) invitation to Civil Engineering Conference (CECON) Awards Gala
- TPC NHHIP MOU Workgroup
- Tactical steering committee meeting
- NHHIP Housing & Communities Meeting

Dec 2020

- NHHIP Traffic Steering Committee
- TPC NHHIP MOU Workgroup
- NHHIP Housing & Communities Meeting

Sept 2020

- TPC Workgroup-NHHIP MOU-third meeting
- GHP Quality of Place committee meeting
- Follow up meeting South Main Alliance (SMA)
- GHP Meeting: Presentation on UTP/NHHIP
- NHHIP Housing & Communities Focus Group Mtg #3
- ACEC monthly membership meeting
- TPC MOU workgroup meeting
- TPC meeting

NHHIP: Meetings with Elected Officials 2011–2016



2011

Nov 2011

- Public Mtg w/Ed Gonzales, Mayor Pro-Tem, City CM Dist H

2012

Oct 2012

- Public Mtg w/Ed Gonzales, Mayor Pro-Tem, City CM Dist H
- Public Mtg w/Congressman Gene Green
- Public Mtg w/Jessica Farrar, Rep Dist 148

2013

Nov 2013

- Public Mtg w/Ed Gonzalez, City Councilman Dist H
- Briefing w/ Rep. Farrar

Dec 2013

- Briefing to Sen Sylvia Garcia (D-6)
- Coordination Mtg w/Sen Sylvia Garcia/Rep Farrar

2014

Feb 2014

- Mtg w/Rep Carol Alvarado
- NHHIP Presentation to H-GAC TPC

Sept 2014

- Townhall w/Sen. Garcia

2015

Apr 2015

- NHHIP Briefing w/Garnet Coleman
- Debrief of Public Mtg #4 Material to Rep Jessica Farrar
- Debrief of Public Mtg #4 Material to Rep Garnet Coleman
- NHHIP Public Mtg w/CM Robert Gallegos
- NHHIP Public Mtg w/CM Dwight Boykins
- NHHIP Public Mtg w/CM David Robinson

May 2015

- H-GAC TPC Mtg
- Mtg w/Rep Culberson

June 2015

- NHHIP Briefing w/Commissioner Lee

July 2015

- NHHIP Briefing w/Commissioner Lee

Aug 2015

- Mtg w/Rep Garnet Coleman (D-147)

Sept 2015

- Rep Alvarado Breakfast Mtg
- NHHIP Mtg w/Senator Garcia

Nov 2015

- NHHIP Mtg w/Sen Garcia

2016

Feb 2016

- Briefing to Mayor Turner's Transition Team
- Mtg w/Rep Culberson

Apr 2016

- Project Briefing to COH CM Cisneros

May 2016

- NHHIP Mtg w/Rep Jarvis Johnson

June 2016

- Mtg Sen Rodney Ellis
- COH's Transportation Committee
- Presentation to CM Amanda Edwards
- NHHIP Briefing w/Harris Co Judge Emmett

July 2016

- Mtg w/Rep Garnet Coleman (D-147)/Hou Southeast/TEI/SWA
- Mtg w/Rep Garnet Coleman and Staff

Aug 2016

- Mtg w/Hou City Council Transportation Subcommittee

Sept 2016

- NHHIP Briefing w/Rep Garnet Coleman

Oct 2016

- Presentation to Rep Gallegos
- Presentation to CM Dwight Boykins

Nov 2016

- Mtg w/Mayor's Transportation/Technology and Infrastructure (TTI) Committee

NHHIP: Meetings with Elected Officials 2017–2018



2017

Feb 2017

- Mtg w/Hou City CM David Robinson
- NHHIP Briefing w/COH Mayor Turner

May 2017

- Presentation to H-GAC TAC
- Mtg w/COH Transportation, Tech and Infrastructure (TTI) Committee
- H-GAC TPC
- Public Hearing w/Congresswoman Sheila Jackson Lee Office
- Public Hearing w/Robert Gallegos City Council Dist I
- Public Mtg (Additional Opportunity for Review and Comment) w/Karla Cisneros, City Council Dist H
- NHHIP Public Hearing w/CM Gallegos
- NHHIP Update w/COH Mayor Turner

June 2017

- Stakeholder Mtg for District I - CM Gallegos
- Presentation at COH Transportation, Technology and Infrastructure (TTI) Committee Mtg
- Prj Mtg w/COH CM Dwight Boykins/Museum Dist

July 2017

- Stakeholder Mtg for District B - CM Davis
- Coordination w/CM Cisneros/Greater Northside Mgmt Dist
- NHHIP Mtg w/COH Mayor Turner/TTC Commr Laura Ryan/TxDOT Staff

Aug 2017

- NHHIP Mtg w/Rep Garnet Coleman

Oct 2017

- NHHIP Mtg w/Rep Garnet Coleman

Nov 2017

- Coordination Mtg w/Councilmember Cisneros/ Members of Coalition Group, Independence Heights Redevelopment Authority/Texas Transportation Commissioner Laura Ryan

2018

Jan 2018

- Mtg w/Sen Carol Alvarado
- Super Neighborhoods Town Hall Mtg w/Sen Carol Alvarado
- Briefing to Harris Co Judge Ed Emmett

Feb 2018

- NHHIP Mtg w/COH Mayor Turner
- Project Mtg w/Senator John Whitmire and UHD
- Introductory Mtg w/Harris County Judge Lena Hidalgo
- NHHIP Mtg w/CM Amanda Edwards/CM Larry Green/COH Staff/METRO/TxDOT

May 2018

- Mtg w/Rep Dutton
- Mtg w/Sen Garcia

Aug 2018

- NHHIP Mtg w/CM Amanda Edwards/METRO/TxDOT

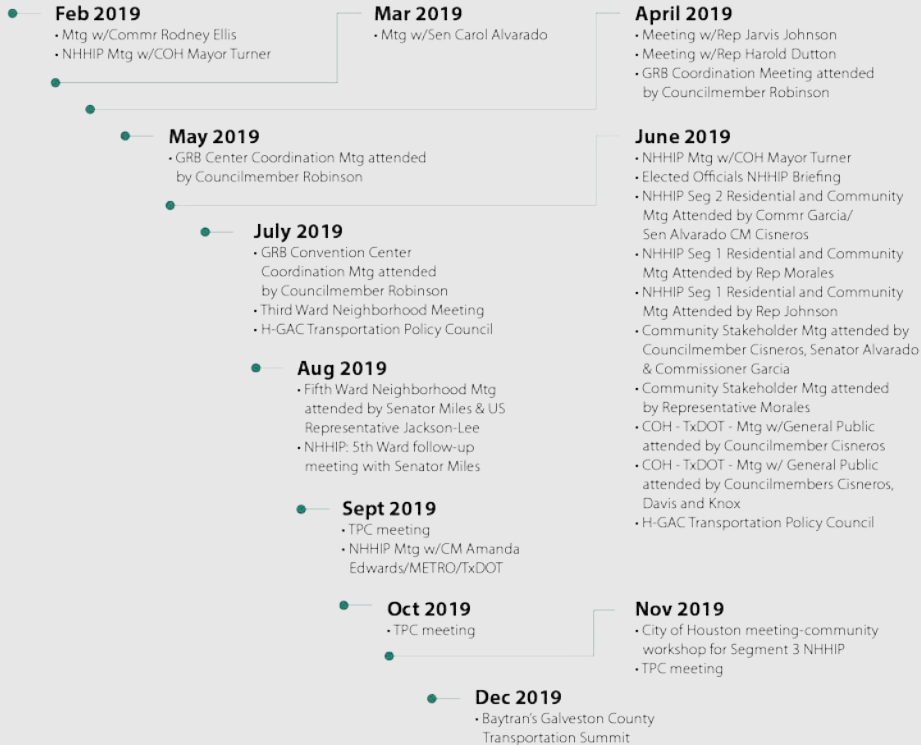
Oct 2018

- NHHIP Mtg w/COH Mayor Turner
- NHHIP Meeting w/Sen Miles

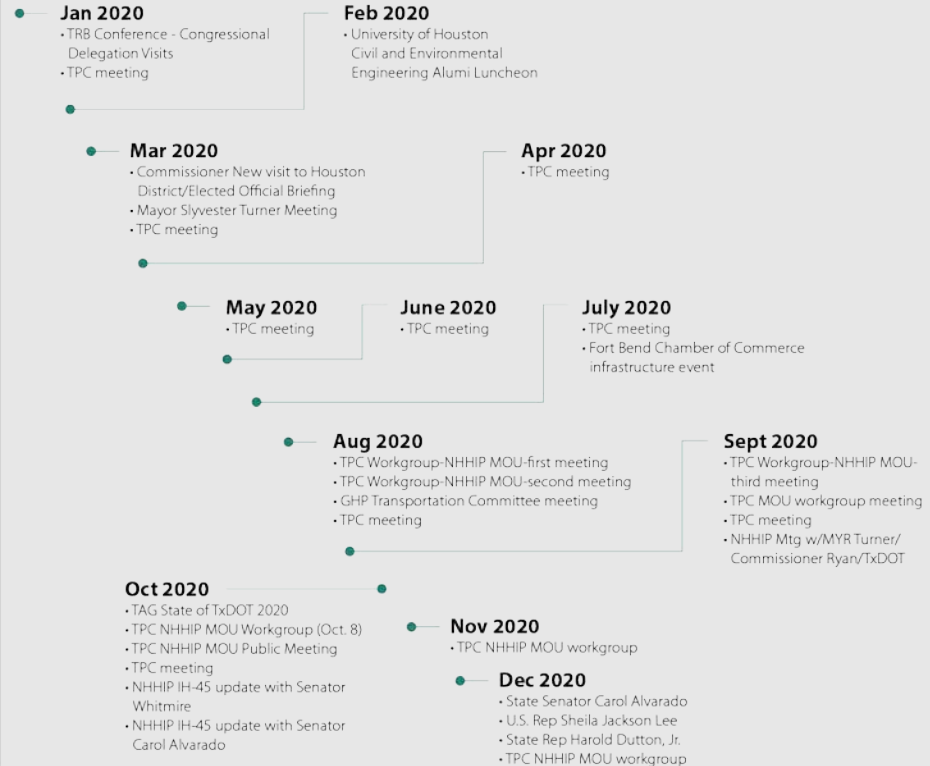
NHHIP: Meetings with Elected Officials 2019–2020



2019



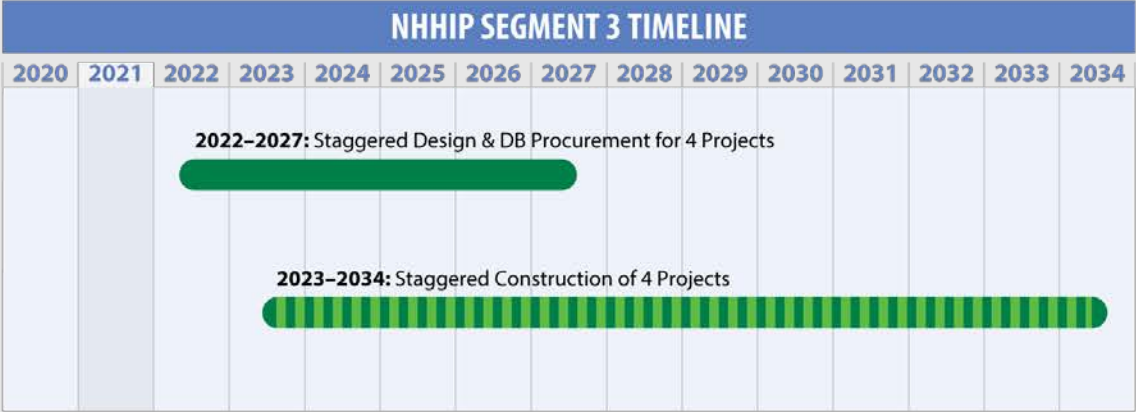
2020





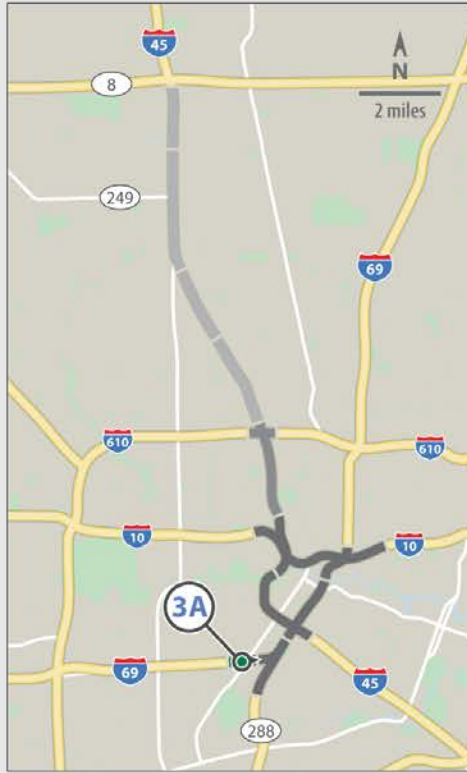
NHHIP PROJECT DESCRIPTION

Segment 3: delivered as four separate projects

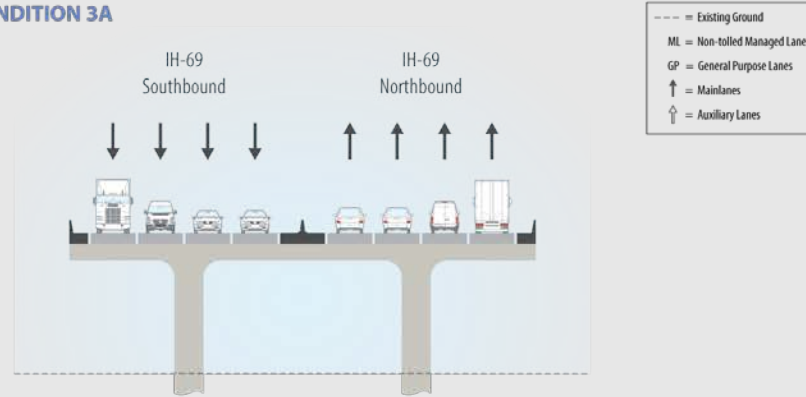


NHHIP SEGMENT 3 FUNDING STATUS			
	FUNDED	FUNDING GAP	TOTAL
Segment 3	\$4,256.6 M	\$774.4 M	\$5,031.0 M

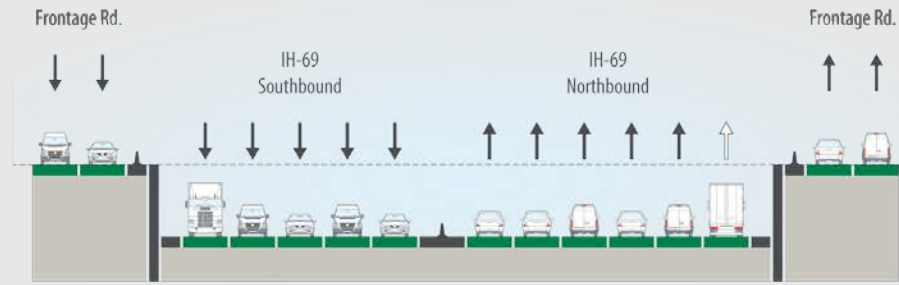
Segment 3: Project 1 of 4



PRESENT CONDITION 3A



PROPOSED CONSTRUCTION 3A



Project Limits:

IH-69 (Spur 527 to SH 288)

Project Length:

1 mile

2020 Top 100 Ranking:

3

Average Daily Traffic

IH-69:

298,600

CST Cost Est:

\$488.0 M

Funding Status:

Fully Funded

CAT 12 TTC:

\$77.4 M

CAT 12 CL:

\$410.6 M

Delivery:

Design-Bid-Build

Construction

Start:

2023

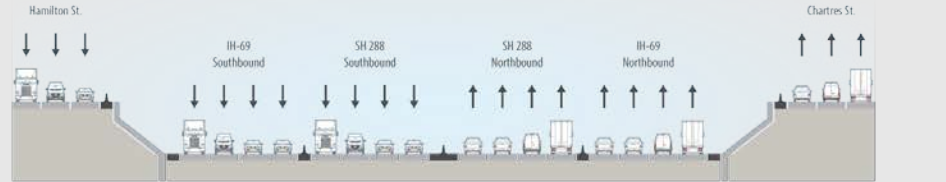
Finish:

2028

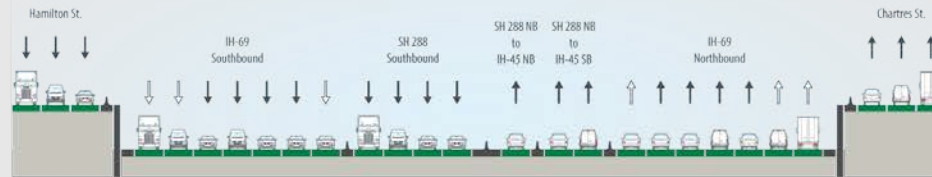
Segment 3: Project 2 of 4



PRESENT CONDITION 3B



PROPOSED CONSTRUCTION 3B



Project Limits:

IH-69 (SH 288 to IH-45 South)

Project Length:

1 mile

2020 Top 100 Ranking:

13

Average Daily Traffic

IH-69: 189,000

SH 288: 188,700

CST Cost Est:

\$513.1 M

Funding Status:

Fully Funded

CAT 3 DB LAR:

\$137.9 M

CAT 12 TTC:

\$130.0 M

CAT 12 CL:

\$245.2 M

Delivery:

Design-Build

Construction

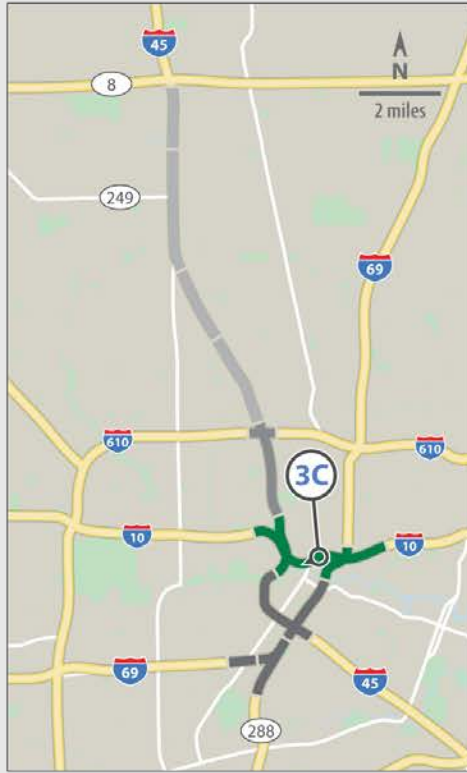
Start:

2023

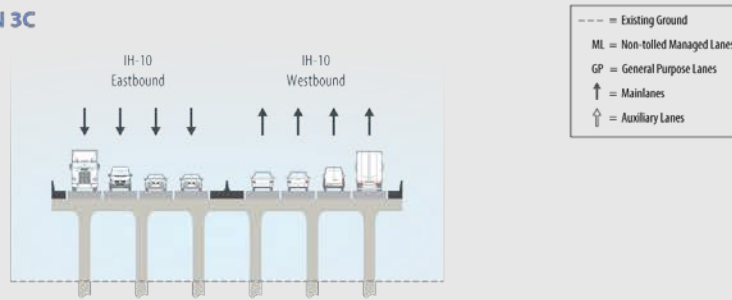
Finish:

2028

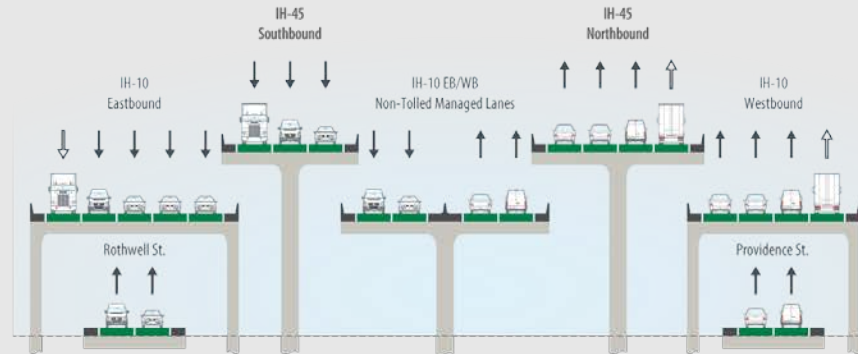
Segment 3: Project 3 of 4



PRESENT CONDITION 3C



PROPOSED CONSTRUCTION 3C



Project Limits:

IH-10 (Houston Ave. to Waco St.),
IH-45 (Quitman St. to Buffalo Bayou),
IH-69 (Lyons Ave. to Buffalo Bayou)

Project Length:

7.3 miles

2020 Top 100 Ranking:

5, 7, 10, 11

Average Daily Traffic

IH-10: 215,300

IH-45: 227,720

IH-69: 189,000

CST Cost Est:

\$2,441.9 M

Funding Status:

Partially Funded

CAT 2: \$390.8 M

CAT 3 DB LAR: \$441.7M

CAT 4: \$685.5 M

CAT 12 CL: \$914.4 M

Funding Gap: \$9.5 M

Delivery:

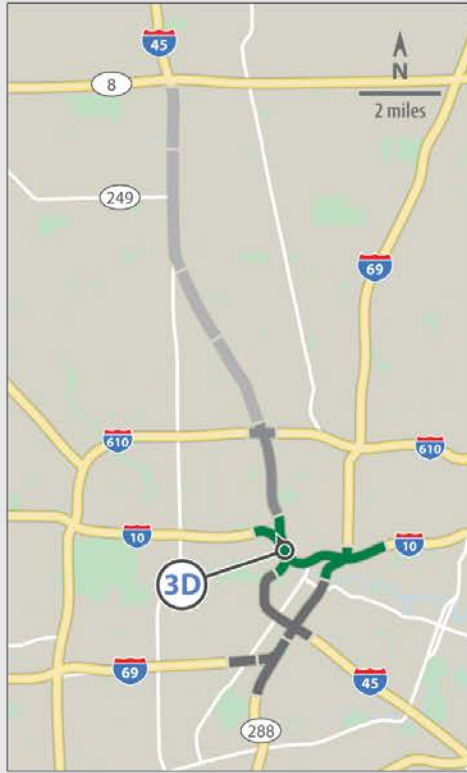
Design-Build

Construction

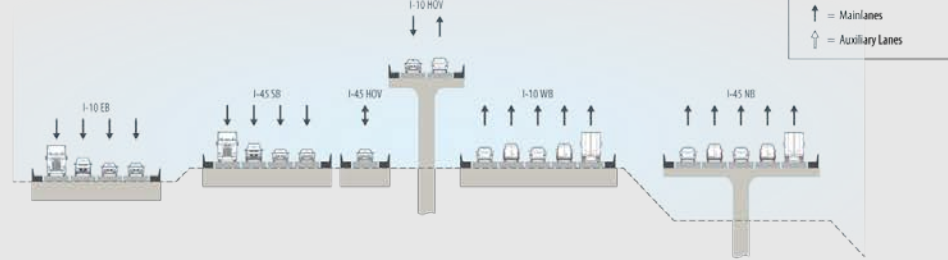
Start: 2025

Finish: 2031

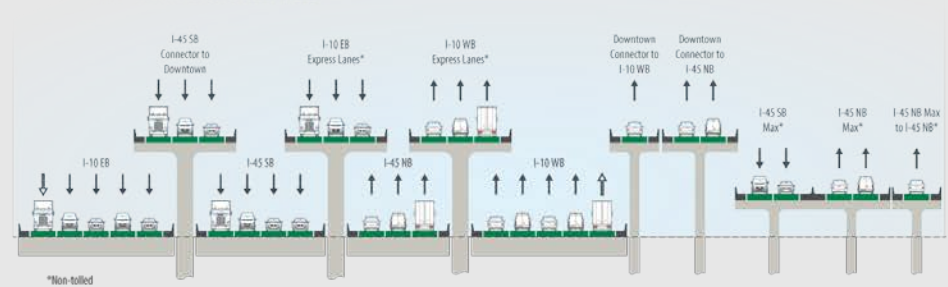
Segment 3: Project 3 of 4, cont'd



PRESENT CONDITION 3D



PROPOSED CONSTRUCTION 3D



Project Limits:

IH-10 (Houston Ave. to Waco St.),
IH-45 (Quitman St. to Buffalo Bayou),
IH-69 (Lyons Ave. to Buffalo Bayou)

Project Length:

7.3 miles

2020 Top 100 Ranking:

5, 7, 10, 11

Average Daily Traffic

IH-10: 215,300
IH-45: 227,720
IH-69: 189,000

CST Cost Est:

\$2,441.9 M

Funding Status:

Partially Funded

CAT 2: \$390.8 M

CAT 3 DB LAR: \$441.7 M

CAT 4: \$685.5 M

CAT 12 CL: \$914.4 M

Funding Gap: \$9.5 M

Delivery:

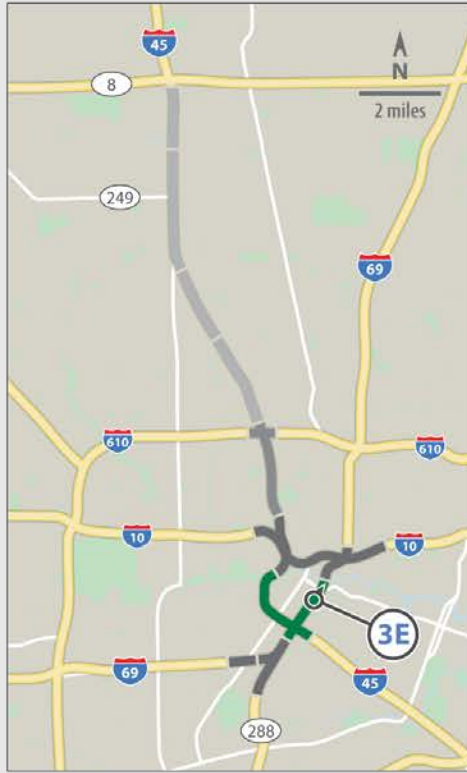
Design-Build

Construction

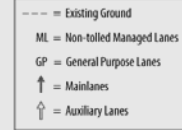
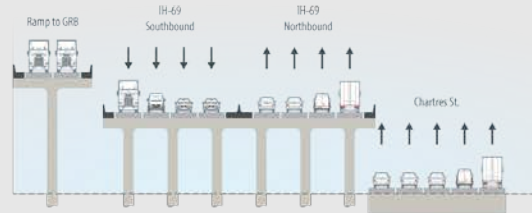
Start: 2025

Finish: 2031

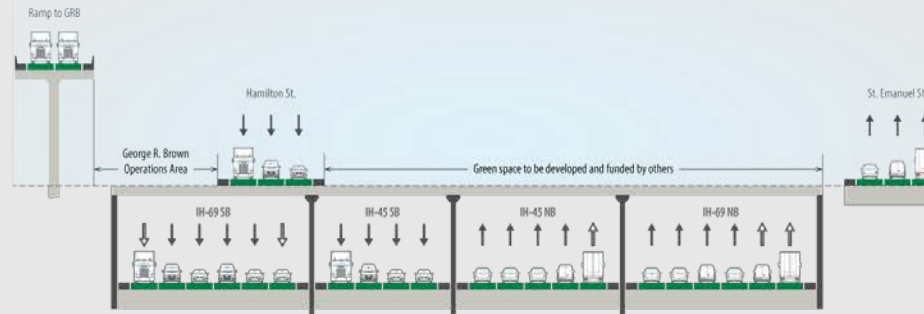
Segment 3: Project 4 of 4



PRESENT CONDITION E



PROPOSED CONSTRUCTION E



Project Limits:

IH-45 (Buffalo Bayou to Scott St.),
IH-69 (IH-45 South to Buffalo Bayou),
Downtown Connectors

Project Length: 4.2 miles

2020 Top 100 Ranking: 5,7

Average Daily Traffic

IH-69: 227,720

SH 288: 189,000

CST Cost Est: \$1,587.0 M

Funding Status: Partially Funded

CAT 3 DB LAR: \$48.0 M

CAT 4: \$268.3 M

CAT 12 CL: \$506.7 M

Funding Gap: \$763.9 M

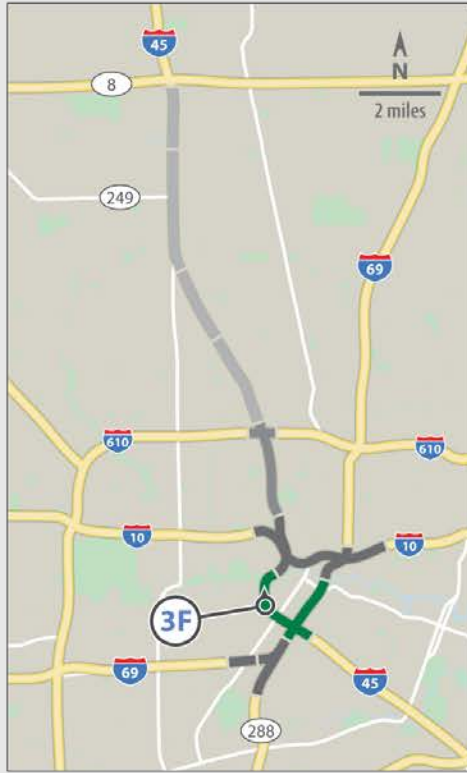
Delivery: Design-Build

Construction

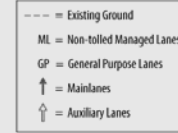
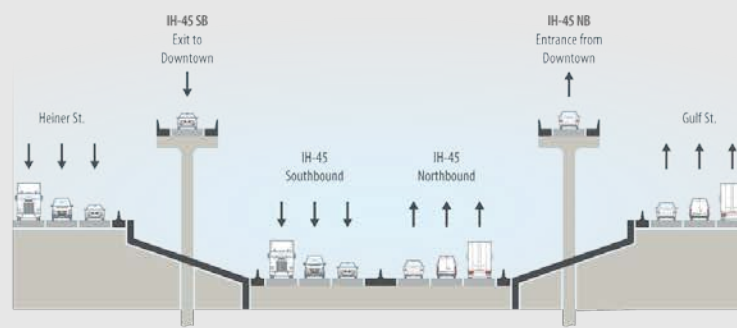
Start: 2027

Finish: 2033

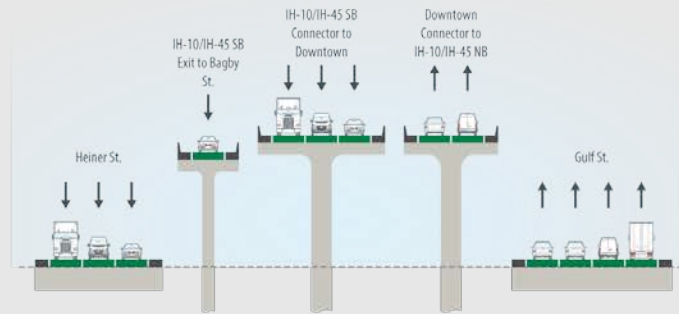
Segment 3: Project 4 of 4, cont'd



PRESENT CONDITION 3F



PROPOSED CONSTRUCTION 3F



Project Limits:

IH-45 (Buffalo Bayou to Scott St.),
IH-69 (IH-45 South to Buffalo Bayou),
Downtown Connectors

Project Length: 4.2 miles

2020 Top 100 Ranking: 5,7

Average Daily Traffic

IH-69: 227,720

SH 288: 189,000

CST Cost Est: \$1,587.0 M

Funding Status: Partially Funded

CAT 3 DB LAR: \$48.0 M

CAT 4: \$268.3 M

CAT 12 CL: \$506.7 M

Funding Gap: \$763.9 M

Delivery: Design-Build

Construction

Start: 2027

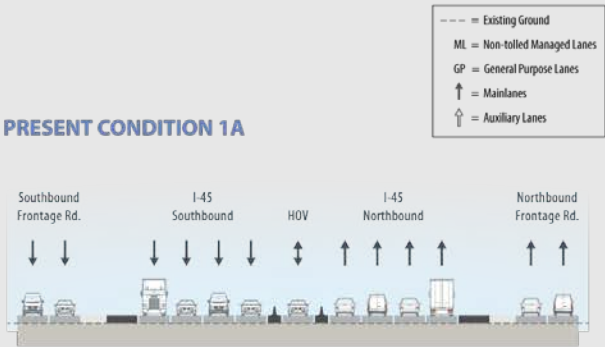
Finish: 2033

Segments 1A & 2: delivered as a single project



NHHIP SEGMENTS 1A & 2 FUNDING STATUS			
	FUNDED	FUNDING GAP	TOTAL
Segment 1A	-----	\$590.0 M	\$590.0 M
Segment 2	\$801.4 M	\$434.6 M	\$1,236.0 M
TOTAL	\$801.4 M	\$1,024.6 M	\$1,826.0 M

Segment 1A



PROPOSED CONSTRUCTION 1A



Project Limits:
IH-45 North (IH-610 N to Tidwell Rd.)

Project Length: 2 miles

2020 Top 100 Ranking: 15

Average Daily Traffic IH-45: 293,000

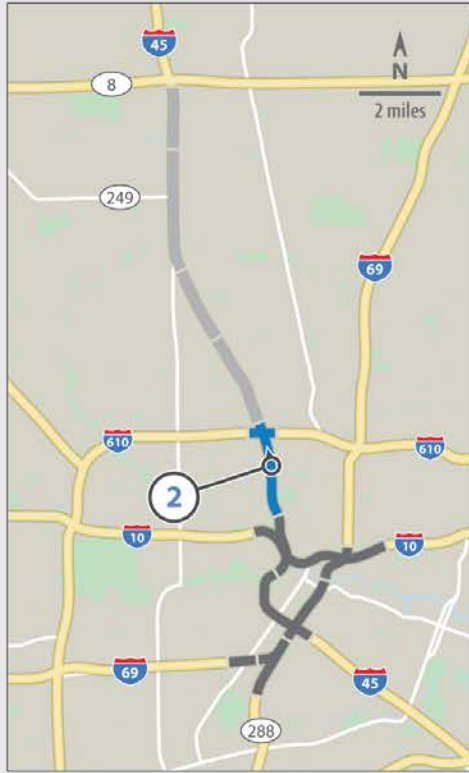
CST Cost Estimate: \$590.0 M

Funding Status: Not Funded
Funding Gap: \$590.0 M

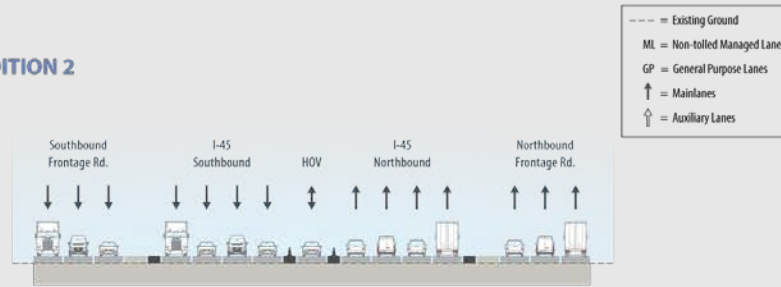
Delivery: Combined with Segment 2 as a single Design Build Project

Construction Start: 2029
Finish: 2034

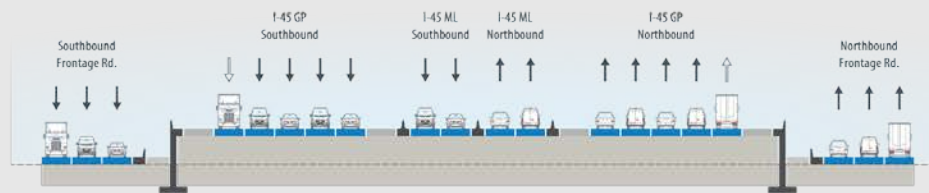
Segment 2



PRESENT CONDITION 2



PROPOSED CONSTRUCTION 2



Project Limits:

IH-45 North (IH-10 to IH-610)

Project Length:

3.4 miles

2020 Top 100 Ranking:

6, 17

Average Daily Traffic

IH-45: 279,500

CST Cost Estimate:

\$1,236.0 M

Funding Status:

Partially Funded

CAT 2: \$100.0 M

CAT 3 DB LAR: \$112.6 M

CAT 12 TTC: \$466.3 M

CAT 12 CL: \$122.5 M

Funding Gap: \$434.7 M

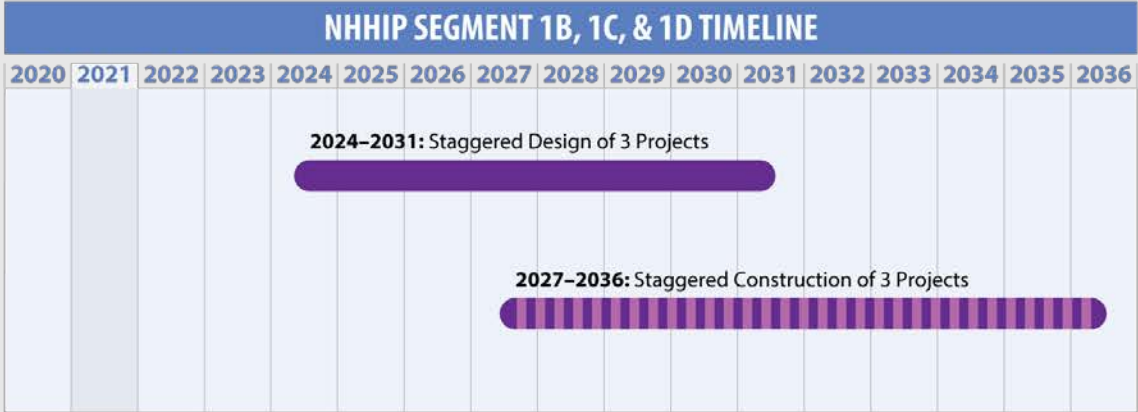
Delivery: Combined with Segment 1A as a single Design Build Project

Construction

Start: 2029

Finish: 2034

Segments 1B, 1C & 1D: delivered as three separate projects

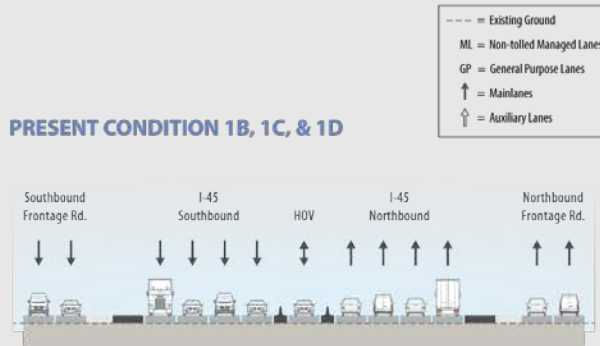


NHHIP SEGMENT 1B, 1C, & 1D FUNDING STATUS			
	FUNDED	FUNDING GAP	TOTAL
Segment 1B	-----	\$360.0 M	\$360.0 M
Segment 1C	-----	\$350.0 M	\$350.0 M
Segment 1D	-----	\$400.0 M	\$400.0 M
TOTAL	-----	\$1,110.0 M	\$1,110.0 M

Segments 1B, 1C & 1D: delivered as three separate projects



PRESENT CONDITION 1B, 1C, & 1D



PROPOSED CONSTRUCTION 1B, 1C, & 1D



Project Limits:

IH-45 North (Tidwell Rd. to Beltway 8)

Project Length:

7 miles

2020 Top 100 Ranking:

15

Average Daily Traffic

IH-45: 293,000

CST Cost Estimate:

\$1,110.0 M

Funding Status:

Not Funded

Funding Gap:

\$1,110.0 M

Delivery:

3 Staggered Projects,
all Design Bid Build

Construction

Start:

2027

Finish:

2036



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