

HOUSTON SHIP CHANNEL EXPANSION

# Project 11

Galveston District— Annual Dredging Meeting

October 21, 2021



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[Expandthehoustonshipchannel.com](https://Expandthehoustonshipchannel.com)

## Port Houston: Who We Are

We manage eight public terminals — including two container terminals

As the non-federal sponsor of the Houston Ship Channel, the nation's busiest waterway, we support the nearly 200 facilities along it

We help facilitate vital commerce through the port that keeps the local, state, and national economy moving



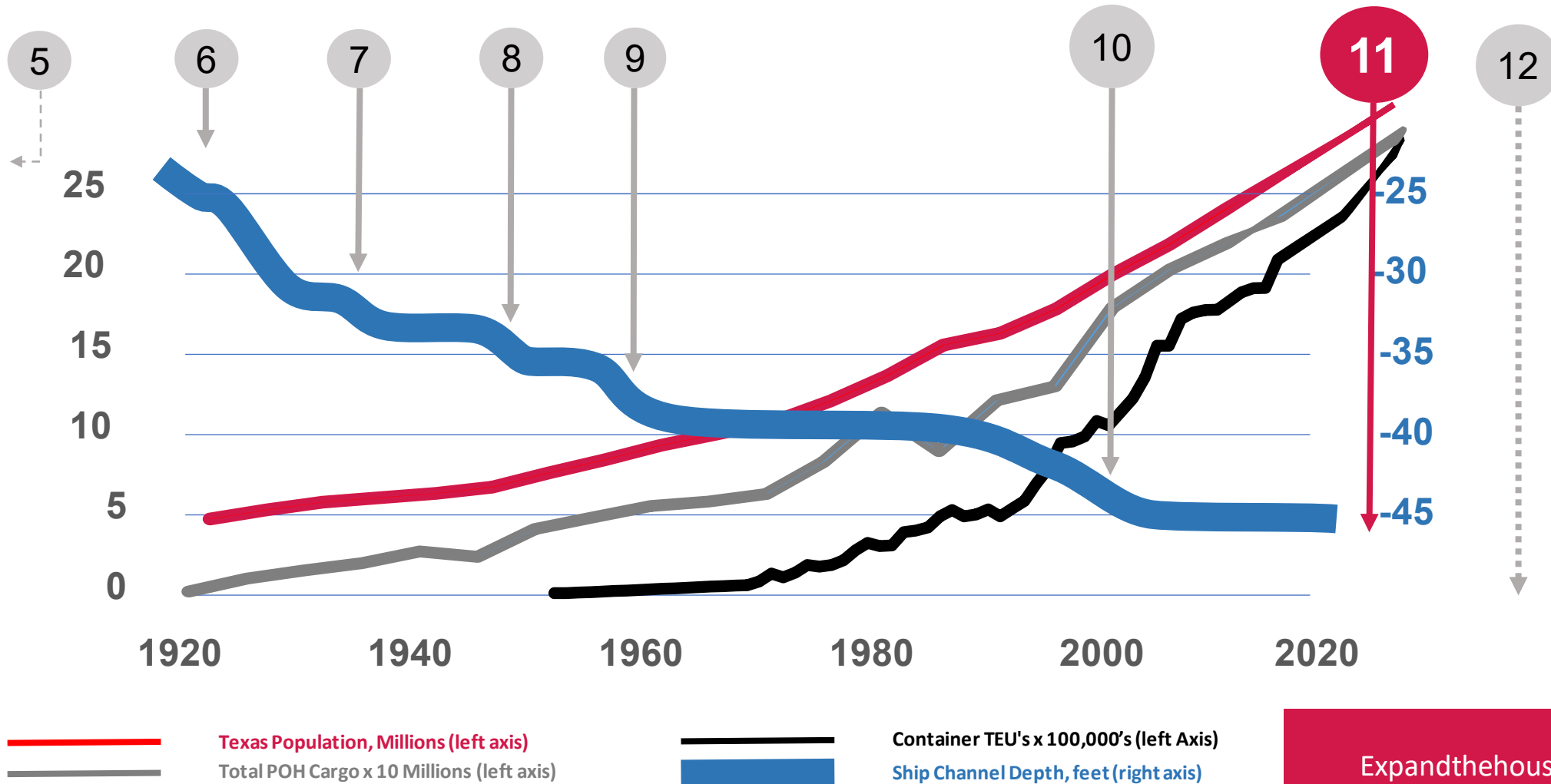
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## Current Effort: Project 11



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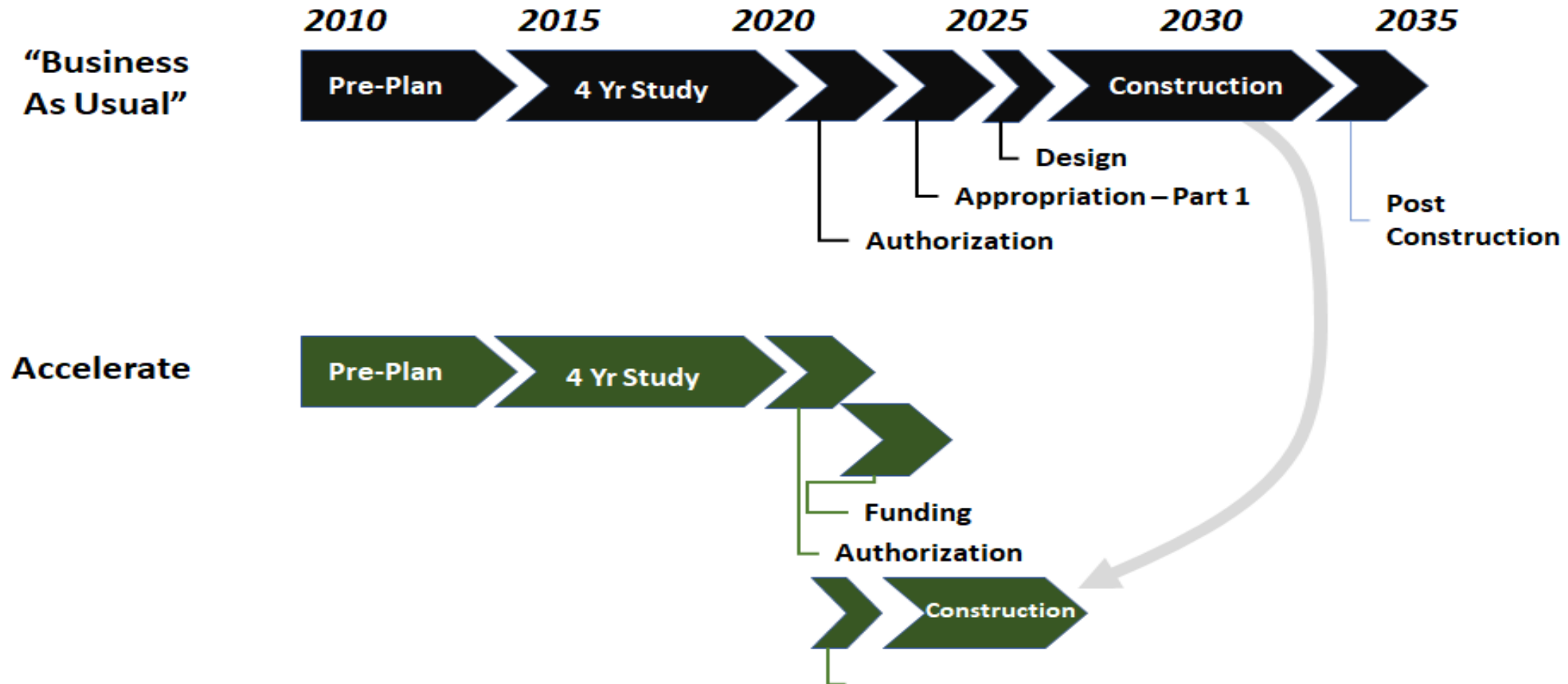
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## Current Effort: Project 11



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# Success Requires Partnerships and Collaboration



# Project Overview

- Port Houston is partnering with the U.S. Army Corps of Engineers (USACE) and Private Industry
- Business as usual plan could take until 2030 or longer
- Project Scope:
  - Channel Widening & Deepening
  - Dredged Material Placement Area Construction
  - Shoreline Protection
  - Marsh, Bird Island, and Oyster Reef

Currently, an approximately 100 ft. bypass makes for nearly impossible and dangerous maneuvers.

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52-mile  
Houston Ship Channel

Total with Expansion:  
700 ft.

Currently:  
530 ft.

Expansion:  
170 ft.

increase in avg. LPG  
vessel length from  
2007 to 2018<sup>2</sup>

increase in avg.  
container ship length  
from 2006 to 2018<sup>2</sup>

Sources:  
1. Greater Houston Port Bureau  
2. TxDOT Maritime

# Project Overview



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## Bolivar Roads to Redfish

1A

- Approximately 11.5 miles in length
- Widen Channel to 700 feet
- Bend easing
- Construct New Bird Island
- Mitigate for oyster habitat loss

DP 1, 3/4A

## Redfish to Bayport Ship Channel

1B

- Approximately 8.3 miles in length
- Widen Channel to a minimum of 700 feet
- Bend easing
- Construct marshes and three bird islands in Galveston Bay
- Mitigate for oyster habitat loss
- *Currently not in the proposed federal plan, so must be built by local interests*

DP 4B/5

## Bayport Ship Channel to Barbours Cut

1C

- Approximately 5 miles in length
- Widen Channel to 700 feet
- Construct additional marshes
- Mitigate for oyster habitat loss
- *Currently not in the proposed federal plan, so must be built by local interests*

DP 6

## Bayport Ship Channel

2

- Approximately 4 miles in length
- Widen Channel to approximately 455 feet
- Construct marshes and three bird islands in Galveston Bay
- Mitigate for oyster habitat loss
- Modify channel entrance to reduce shoaling

DP 4B/5

## Barbours Cut Ship Channel

3

- Widen Channel to approximately 455 feet
- Construct additional marshes on Atkinson Island
- Modify channel entrance

DP 7

## Boggy Bayou (BW 8) to Sims Bayou

4

- Widen Channel to approximately 530 feet through Greens Bayou confluence
- Deepen from existing 41 feet to 46.5 feet from Boggy Bayou to Hunting Bayou (last Turning Basin before reaching Washburn Tunnel)

DP 2, 8, 9

## Sims Bayou to IH 610

5

- Deepen from existing 37 feet to 41.5 feet

DP 10, 11, 12

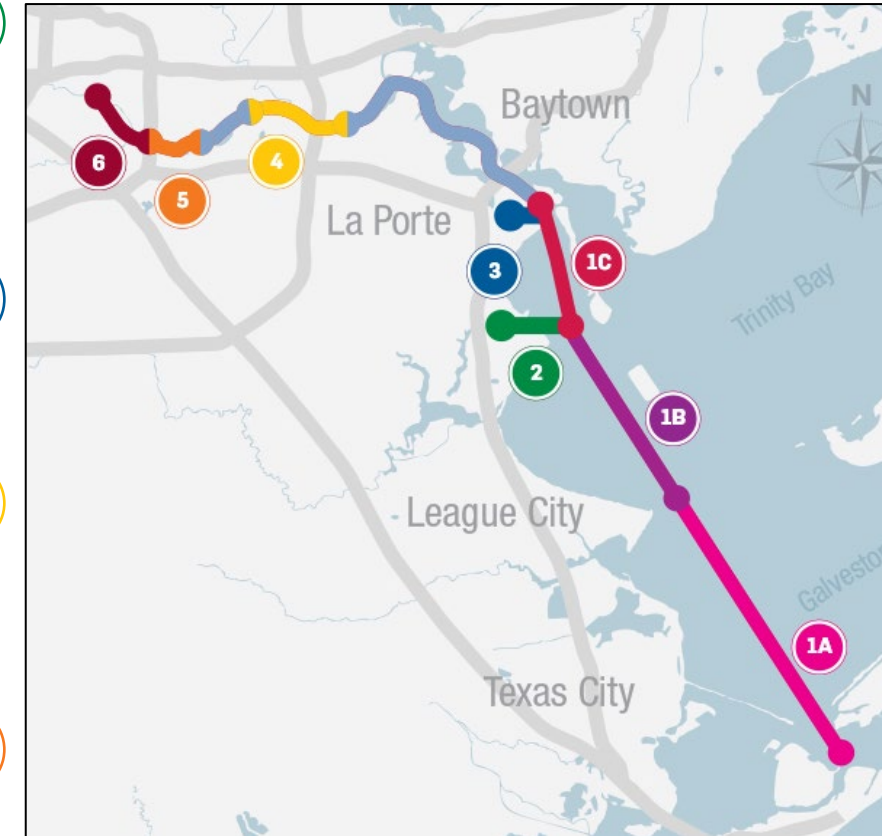
## IH 610 to Turning Basin

6

- Deepen from existing up to 41.5 feet
- Increase Brady Island Turning Basin

DP 10, 11, 12

No improvement planned in these areas



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Fiscal Year	Contract Name	Est Qty	Dredge Type	Placement Area	CT Req Depth
FY22	Houston Ship Channel CIP Contract 3	1,744,100	P M	BU	48-ft + 2-ft
FY22	Houston Ship Channel CIP Contract 4	6,831,400	P M	ODMDS & BU	48-ft + 2-ft
FY23	Houston Ship Channel CIP Contract 5	3,050,000	P	BU	48-ft + 2-ft
FY24	Houston Ship Channel CIP Contract 6	2,813,900	P	BU	48-ft + 2-ft
FY25	Houston Ship Channel CIP Contract 7	4,247,000	P	Beltway 8 and East 2 Clinton	48-ft + 2-ft



## FY22 Houston Ship Channel CIP Contract 3 (Bolivar Roads to Redfish Reef Channel Widening)



**AWARDED BY PORT OF HOUSTON**

**LOCATION:** Houston Ship Channel

**DREDGE TYPE:** Pipeline/Mechanical

**PLACEMENT:** BU

**QUANTITY:** 1,744,100

**DEPTH:** 48-ft + 2-ft

**BUSINESS TYPE:** Large

**ADVERTISE:** 07/02/21

**BID OPENING:** 08/25/21

**COMMENCE DREDGING:** 03/27/22

**DREDGE COMPLETE:** 12/28/22

**WORK RESTRICTIONS/WINDOW:**

N/A



**FY22** Houston Ship Channel CIP Contract 4  
(Redfish Reef to Bayport Ship Channel - Channel Widening; Bayport Ship Channel Widening)



**TO BE AWARDED BY PORT OF HOUSTON**

**LOCATION:** Houston Ship Channel

**DREDGE TYPE:** Pipeline/Mechanical

**PLACEMENT:** ODMDS & BU

**QUANTITY:** 6,831,400

**DEPTH:** 48-ft + 2-ft

**BUSINESS TYPE:** Large

**ADVERTISE:** 11/02/21

**BID OPENING:** 02/22/22

**COMMENCE DREDGING:** 04/22/22

**DREDGE COMPLETE:** 11/26/24

**WORK RESTRICTIONS/WINDOW:**

N/A



# Procurement Schedule (Tentative) – Advertisement



- Package 1, USACE awarded September 2021
- Package 2, PHA awarded in April 2021
- Package 3/4A, PHA awarded October 2021
- Segment 1B, 1C Abandoned Pipeline Removal Package, pending PHA award October 2021
- Packages 4B/5 advertising November 2021
- Packages 6-9 advertising — *pending balance of risk, schedule, and cost* — second quarter of 2022 or after
- Packages 10-12, advertising in 2024 or after



# Procurement Schedule (Tentative) – Overview



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Design Package			Dredged Volume (CY)	Existing DMPA	New DMPA	Tentative PHA Advertisement/Award	Tentative Completion	Pending Items
3/4A	Bolivar Roads to Redfish	<ul style="list-style-type: none"> <li>Dredge Houston Ship Channel to 700-ft wide and relocate barge lanes</li> <li>Construct New Long Bird Island</li> <li>Offshore material disposal to ODMS</li> </ul>	3,600,000	ODMS	New Long Bird Island	July/October 2021	July 2022	Energy Transfer Letter of Concurrence
4B/5	Redfish to Bayport	<ul style="list-style-type: none"> <li>Dredge Houston Ship Channel to 700-ft wide and relocate barge lanes</li> <li>Dredge Bayport Ship Channel up to 455-ft wide</li> <li>Construct New Bird Island Marsh complex and oyster beds</li> </ul>	5,900,000	--	Bird Island Marsh San Leon Oyster Dollar Reef Oyster	October 2021/February 2022	November 2024	USACE BCOES AOM Industry Financing
6	Bayport to Morgans Point	<ul style="list-style-type: none"> <li>Dredge Houston Ship Channel to 700-ft wide and relocate barge lanes</li> <li>Construct Marsh 11</li> <li>Enhancement of Marsh 7/8/9 and Marsh 10</li> </ul>	4,000,000	Dike rehabilitation of M7/8/9 & M10	M11	May/August 2022	July 2023	USACE BCOES AOM Industry Financing
--	Redfish to Morgans Point	<ul style="list-style-type: none"> <li>Removal of abandoned pipelines in Design Packages 4B/5 and 6</li> </ul>	NA	--	--	August/October 2021	April 2022	AOM, Package 6
7	Barbours Cut Ship Channel	<ul style="list-style-type: none"> <li>Dredge Barbours Cut Ship Channel up to 455-ft wide</li> <li>Barbours Cut Flare Relief</li> <li>Cedar Bayou Sweep</li> <li>Spilman Island &amp; Morgans Point Sheet Pile Wall</li> <li>Place in newly constructed Marsh Cell 12</li> </ul>	2,800,000	--	M12	March/August 2023	December 2025	USACE BCOES 204b Industry Financing
8	Boggy Bayou to Hunting Bayou Turning Basin	<ul style="list-style-type: none"> <li>Construct Beltway 8 (for one time use) and East 2 Clinton (for long-term maintenance)</li> </ul>	NA – Site Preparation	--	--	March/June 2023	November 2024	USACE BCOES 204b Industry Financing Pipeline Relocation and Removal
9		<ul style="list-style-type: none"> <li>Widen channel to 530 ft from STA 684+03 to 823+35.359 at -46.5 ft MLLW (required depth -49.5 ft MLLW)</li> <li>Deepen channel from -41.5 to -46.5 ft MLLW from STA 684+03.19 to 930+00</li> <li>Length of Dredge – 4.7 miles</li> <li>Volume of Dredge – 4.7 MCY (including maintenance material and an allowance for 1 year of shoaling)</li> <li>2.5 MCY to E/W Clinton, 2.2 MCY to BW8 DMPAs</li> </ul>	4,247,000	East-West Clinton DMPA	Beltway 8	June/September 2024	November 2025	





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# Questions?



Visit the Project 11 Webpage

<https://www.expandthehoustonshipchannel.com/>



Email the PHA Project 11 Team

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Contact the Project Management Team

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