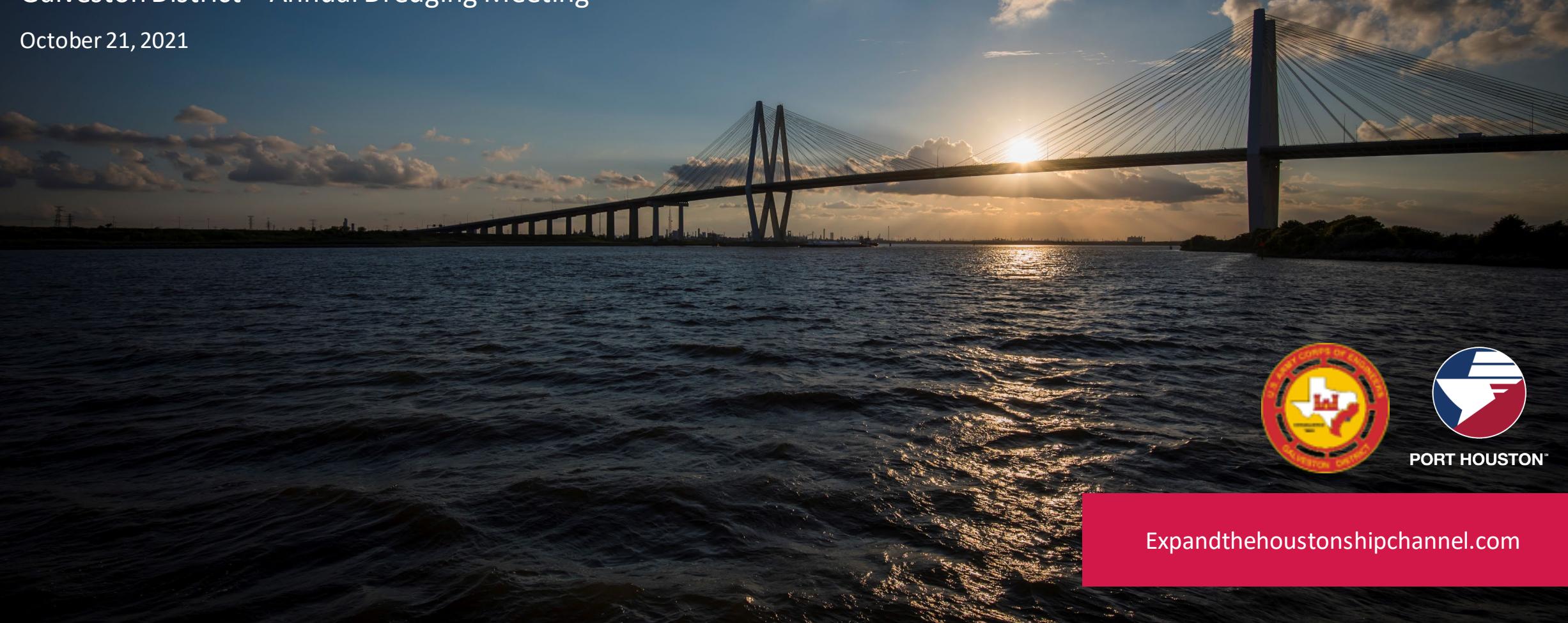


HOUSTON SHIP CHANNEL EXPANSION

# Project 11

Galveston District – Annual Dredging Meeting

October 21, 2021



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

# Port Houston: Who We Are

We manage eight public terminals — including two container terminals

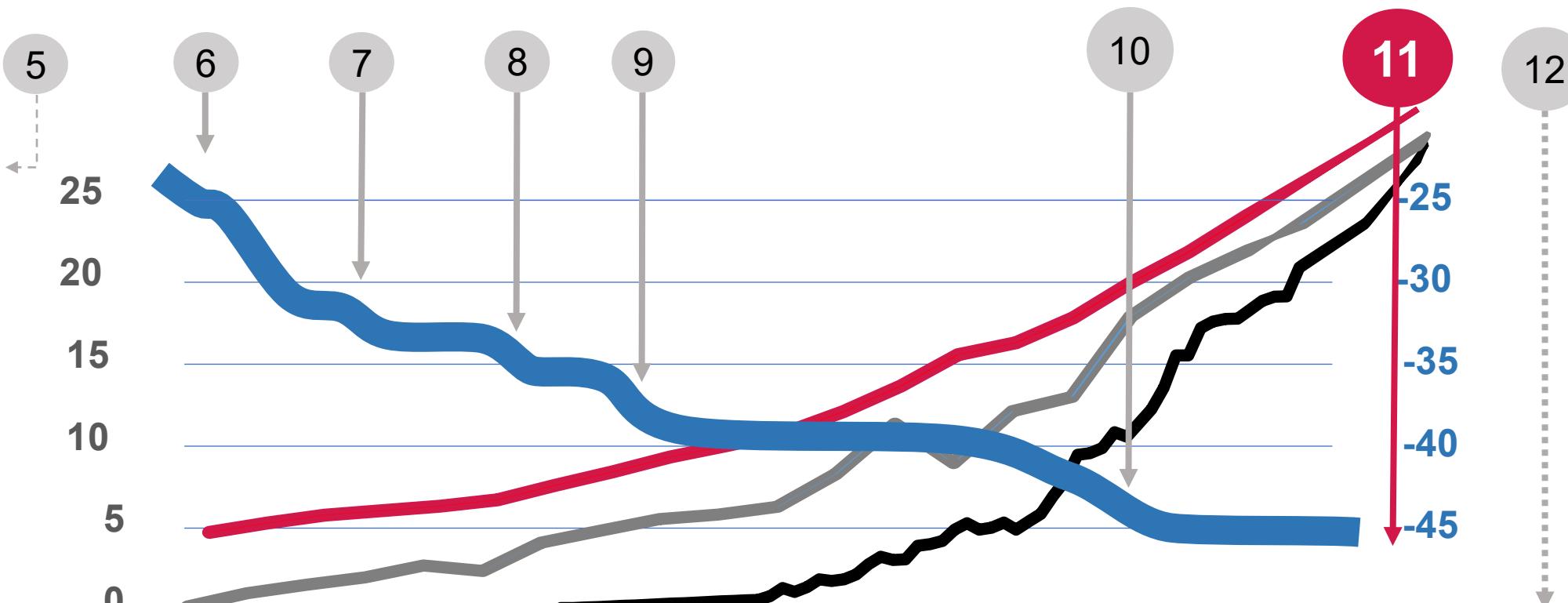
As the non-federal sponsor of the Houston Ship Channel, the nation's busiest waterway, we support the nearly 200 facilities along it

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



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

# Current Effort: Project 11



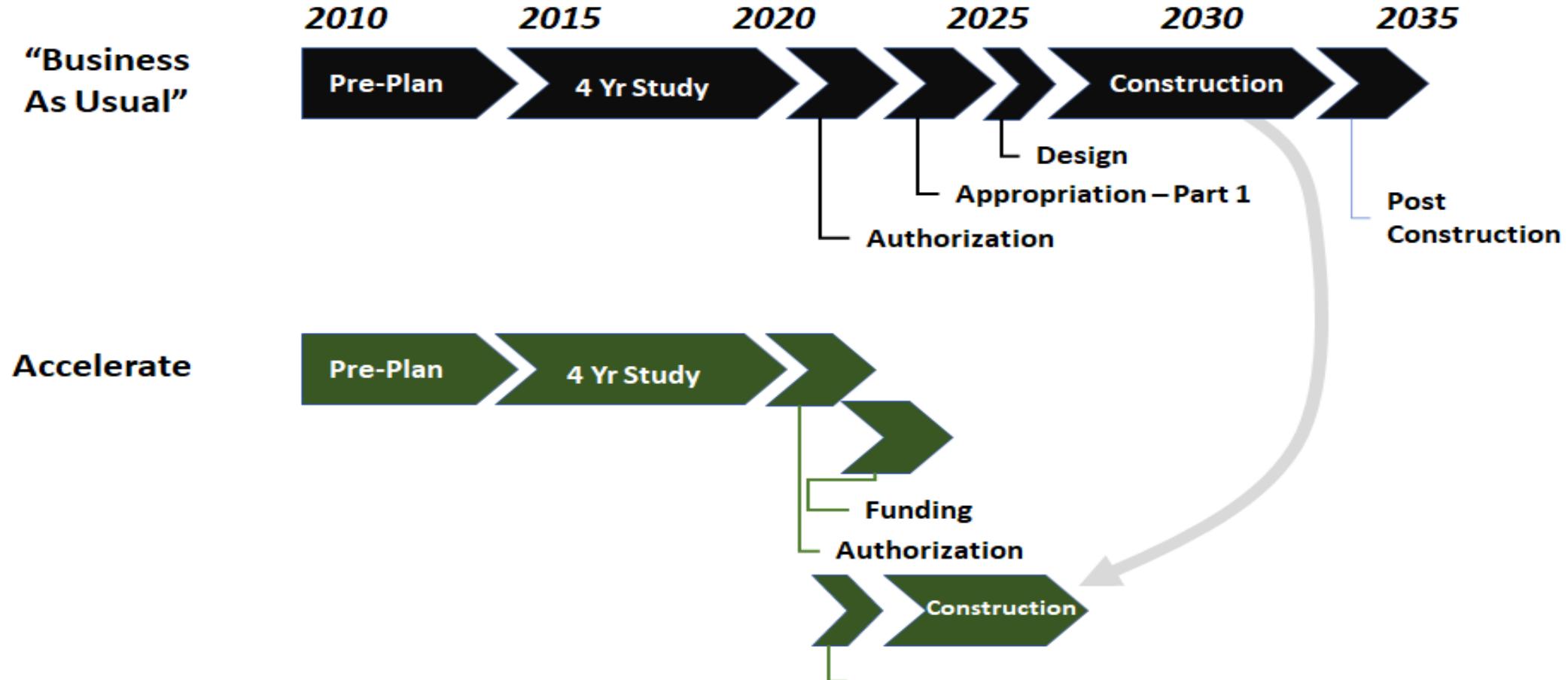
Texas Population, Millions (left axis)  
Total POH Cargo x 10 Millions (left axis)



Container TEU's x 100,000's (left Axis)  
Ship Channel Depth, feet (right axis)

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# Current Effort: Project 11



# Success Requires Partnerships and Collaboration



*Industry*



*Port*



*State and Federal Agencies*



*Corps*

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# 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.

HOUSTON

52-mile Houston Ship Channel

Total with Expansion: 700 ft.

Currently: 530 ft.

Expansion: 170 ft.



Trinity Bay

Galveston Bay

Texas City

Gulf of Mexico

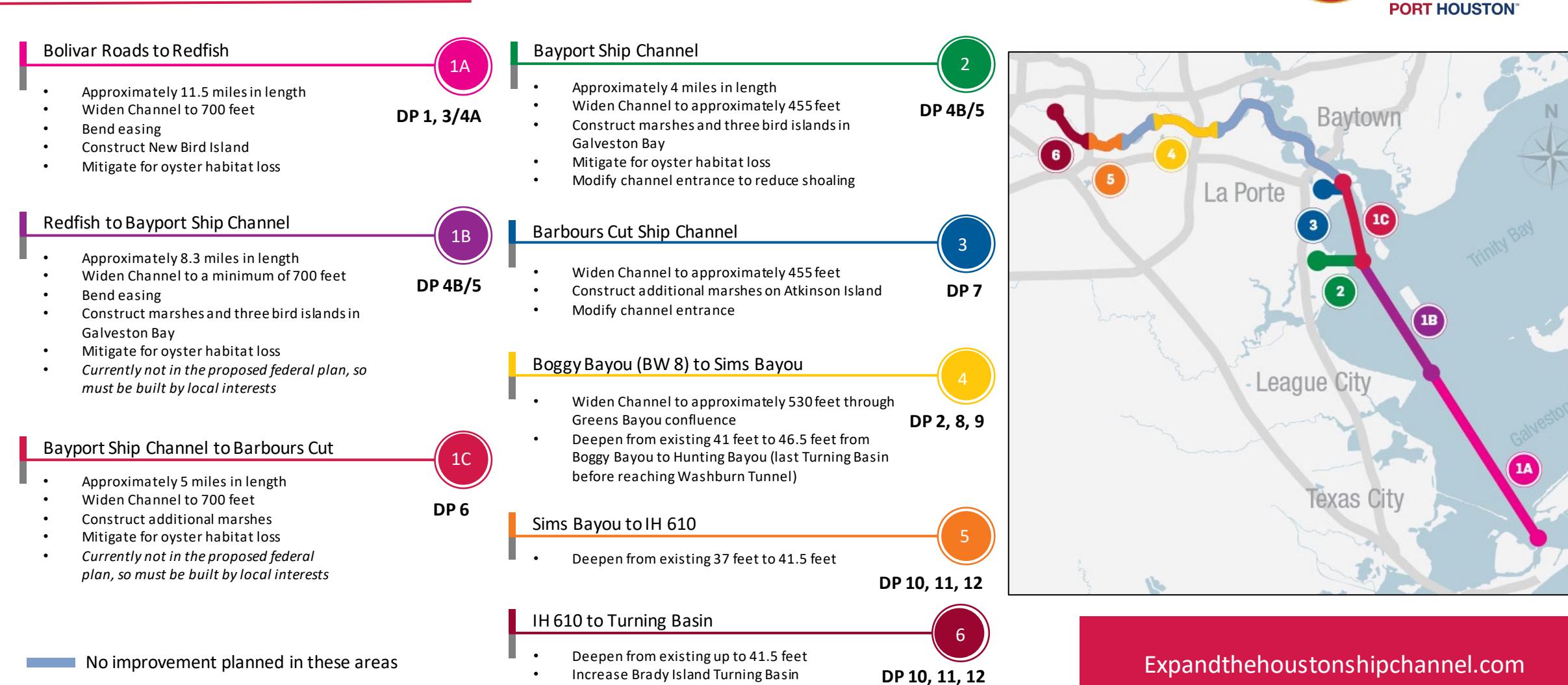
increase in avg. LPG vessel length from 2007 to 2018<sup>2</sup>

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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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)**



# 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



PORT HOUSTON®

Design Package			Dredged Volume (CY)	Existing DMPA	New DMPA	Tentative PHA Advertisement/Award	Tentative Completion	Pending Items
<b>3/4A</b>	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 ODMDS</li> </ul>	3,600,000	ODMDS	New Long Bird Island	July/October 2021	July 2022	Energy Transfer_Letter of Concurrence
<b>4B/5</b>	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
<b>6</b>	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
<b>7</b>	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
<b>8</b>	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
<b>9</b>		<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	



# Questions?



Visit the Project 11 Webpage

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



Email the PHA Project 11 Team

[Project11@PortHouston.com](mailto:Project11@PortHouston.com)



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