NORFOLK HARBOR NAVIGATION IMPROVEMENTS













ADVANTAGES

- Post-Panamax ready at 50 ft.
- Deepening to 55 ft. began in January 2020
- Only 18 miles from open sea and no overhead aerial obstructions
- Central mid-Atlantic location on the East
 Coast
- Reach 75% of the US population within a two day drive
- Strong terminal infrastructure and robust intermodal connections
- Expansion capabilities





FY2021 volumes

We handled 3.22 million TEUs in Fiscal Year 2021







63.4% 1,127,714

32.7% 581,868

3.9% 68,526

Overall volume up 16.8% over FY 2020

Vessel calls are up 7% over FY 2020



\$695 million of Data-driven construction is coming out of the ground at The Port of Virginia.





Virginia International Gateway (VIG)

Portsmouth, Virginia

Acreage: 291

Cranes: 12 ship to shore

Wharf: 4,000 ft

Capacity: 1.2 million containers

Depth: 55 ft

On-dock rail service via Norfolk Southern and CSX



Norfolk International Terminals (NIT)

Acreage: 567

Cranes: 14 ship to shore

Wharf: 7,300 ft

Capacity: 820,000 containers

Depth: 50 ft

On-dock rail service via Norfolk Southern

POV Fiscal Year Volumes (July- June 2021)

	FY 2020	FY 2021	Change
Total TEUs	2,757,625	3,221,000	463,376
Export Loaded TEUs	938,085	1,016,040	77,956
Export Empty TEUs	513.445	663,474	150.029

1,281,761

24,334

1,538,169

128,180

498,563

28,730

59,087

41,019

980,519

1,438

17,340

20,890,358

20,762,179

1,520,647

20,840

1,778,108

23,473,364

23,388,569

84,794

581,868

31,970

68,526

43,417

1,127,714

1,538

16,192

238,886

(3,495)

239,939

2,583,005

2,626,391

(43,385)

83,305

3,240

9,439

2,398

100

147,195

(1,148)

Import Loaded TEUs

Import Empty TEUs

General Cargo Tonnage

Container Tonnage

Breakbulk Tonnage

Total Rail Containers

Total Barge Containers

Total Truck Containers

VIP Containers

RMT Containers

Ship Calls

Vehicle Units

Total Containers

% Change

16.8% 8.3% 29.2%

18.6%

-14.4%

15.6%

12.4%

12.6%

-33.8%

16.7%

11.3%

16.0%

5.8%

15.0%

7.0%

-6.6%

The Port's Contribution to the Container Shipping Industry

79,000,000
TONS OF CARGO MOVED







Source: Economic Impacts of Virginia's Maritime Industry, 2013, Raymond A. Mason School of Business, William & Mary





WE HAVE A HISTORY OF WELCOMING BIG SHIPS

An 80% increase in size in under five years.

2014: 8,500 TEUs

2015: 9,000 TEUs

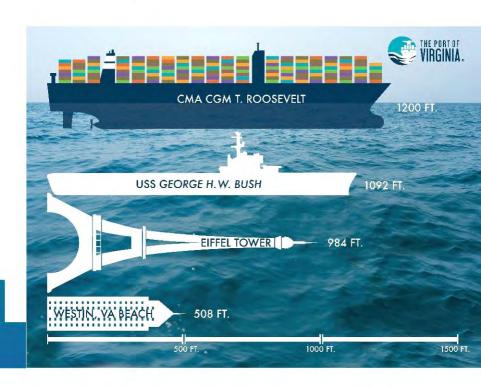
2016: 10,500 TEUs

2017 (May): 13,098 TEUs

2017 (July): 13,300 TEUs

2017 (Aug): 14,400 TEUs

2020 (Sep): 15,072 TEUs



NYN 50'/50' **BALTI-**MORE 50'/50' **SC PORT**

EAST COAST PORT DEPTHS

By 2025, The Port of Virginia will by the only port of the US East Coast with a 55+' channel depth.



45'/52'

GA PORT 42'/47'

IACKSON-40'/47'

> **MIAMI** 50'/50'



NOV '17

The governor-elect's proposed budget includes the cost for the dredging project's preliminary engineering and design



MAY '18

The Virginia Legislature approves \$350 million for the project's engineering, design and construction



JUN '18

The U.S. Army Corps of Engineers gives its final approval for it to move ahead



EARLY '20

Construction on deepening the channel to 55 feet and widening in certain areas begins*

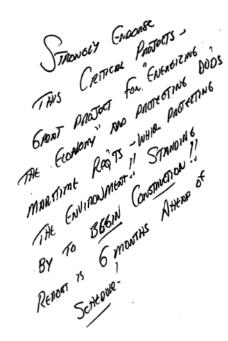


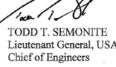
EARLY '25

The dredging work is complete, and Virginia is home to the deepest port on the U.S. East Coast* *Proposed schedule

Norfolk Harbor Navigation Improvements

- Completed the GRR 6 Months Ahead of Schedule
- Chief's Report Signed (June 2018)
- Preconstruction Engineering and Design (PED) underway
- Accelerated Construction Start
 - Response to Industry Needs





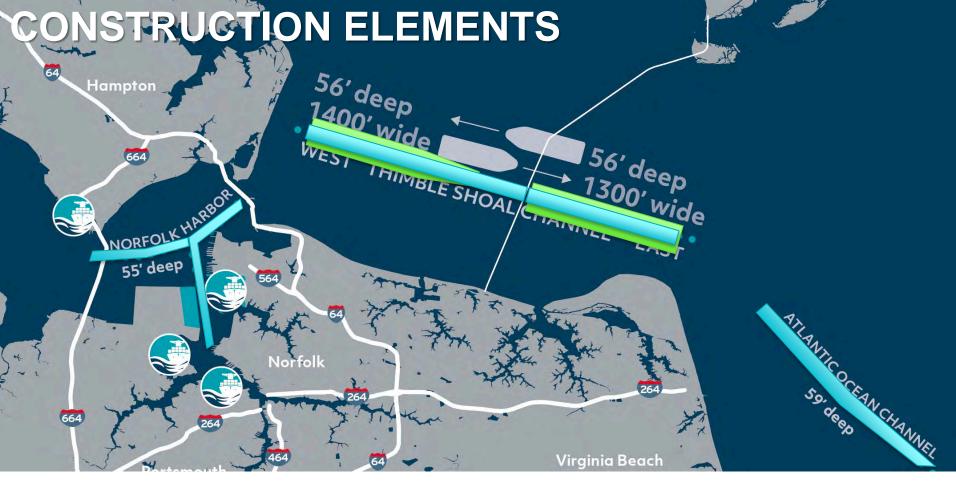




NORFOLK HARBOR & CHANNELS DEEPENING 1400' wide 56' deep THIMBLE SHOAL CHANNEL NORFOLK HARBOT EAST 55' deep 664 Virginia Beach





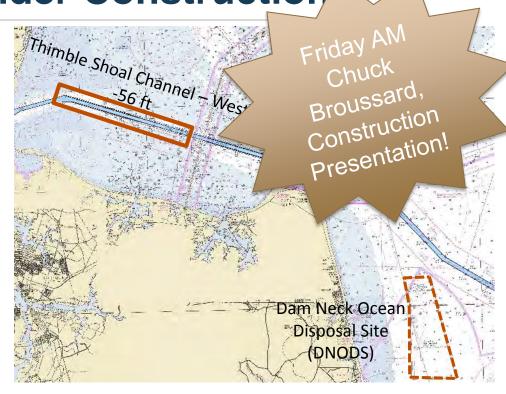






First Contract – Under Construction

- Thimble Shoal Channel, West of CBBT – Early start, 2019
- Dredging paused maintenance/repairs and seasonal restrictions
- Segments 1 6 of 8 total accepted to date - 82% complete. (4.89 MCY dredged / 5.97 MCY total)
- Mechanical & Hopper Used
- Mid-January return based on Weeks schedule

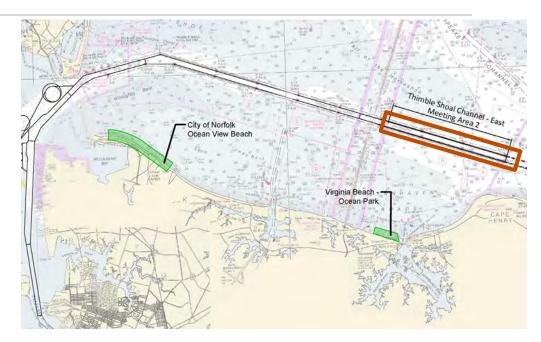






Second Ocean Contract – Awarded!

- TSC East & Meeting Area #2
- Great Lakes Dredge and Dock Company
- GLDD has indicated planned start in first half 2022
- ~3.2MCYs Dredging
- ~800,000 Cys for Beneficial
 Use Beach Nourishment
 - Cord. with City of Norfolk and City of VA Beach

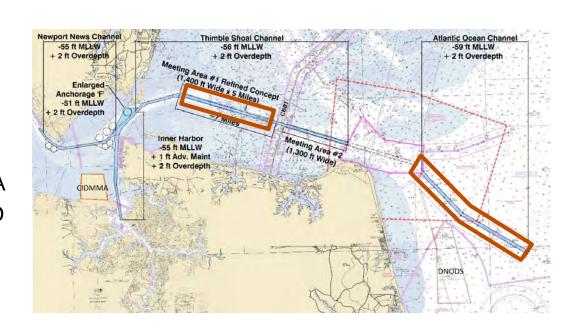






Third Ocean Contract – Design Effort

- Sediment testing complete; tissue testing in progress for both MA #1 or AOC
- On track for March 2022 concurrence from EPA
- Supports dredge start for MA #1 or AOC in mid-2022 (TBD based on validation study of MA1)
- Meeting Area #1 Economic
 Validation Study Ongoing

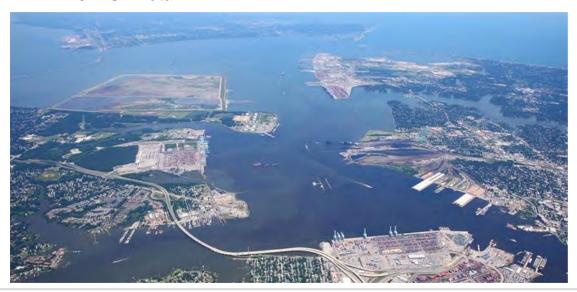






Inner Harbor Contracts

- Craney Island Dredged Material Management Area Constraints (CIDMMA)
- ~10 MCY Total









Inner Harbor – Craney Placement

- Channel to Newport News deepening being moved ahead of Inner Harbor work to provide needed material to raise CIDMMA dikes.
- Sediment sampling completed on 9/26/2021
- Contract advertisement expected early 2022
 - Contingent on New Start Decision
- Norfolk Harbor and Anchorage F to follow

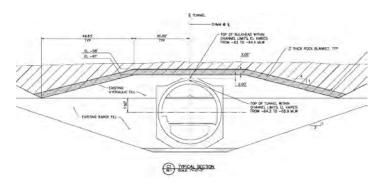


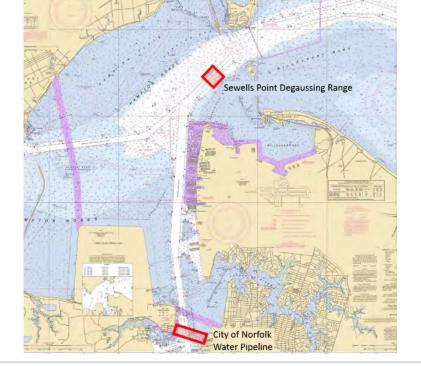




Constraint Resolution

- Utility Surveys
- CBBT Cover Modification
 - Analysis Ongoing to Validate GRR Concept











Success based on Cooperation

- Partnership with USACE
 - MOU to begin construction early
 - PPA pending new start
- Beneficial use Coordination and Cooperation
 - City of Norfolk
 - City of Virginia Beach





SUMMARY – Near Term

- 2022
 - Complete TSC-West
 - Complete TSC-East/ MA#1
 - Channel to Newport News





SUMMARY – Long Term

- CIDMMA Readiness
- Beneficial Use of Sands –
 Continue Coordination Effort
- Continue Dredging





Craney Island Eastward Expansion (CIEE)

Purpose

- Increase Capacity of CIDMMA
- Provide Site for State Port





CIEE - Continue Main Dike Pre-Drege

- Pre-Dredge of SE Cell
 Main Dike
- Possible USACE
 Funded Project in
 2022







CIEE SE Cell



Phase 1: SE Cell Fill & Ground Improvements





CIEE Next Steps

- Continue pre-dredge along main dike
- Continue effort to enclose southeast cell





