



US Army Corps of Engineers
New England District



Boston Harbor, Massachusetts



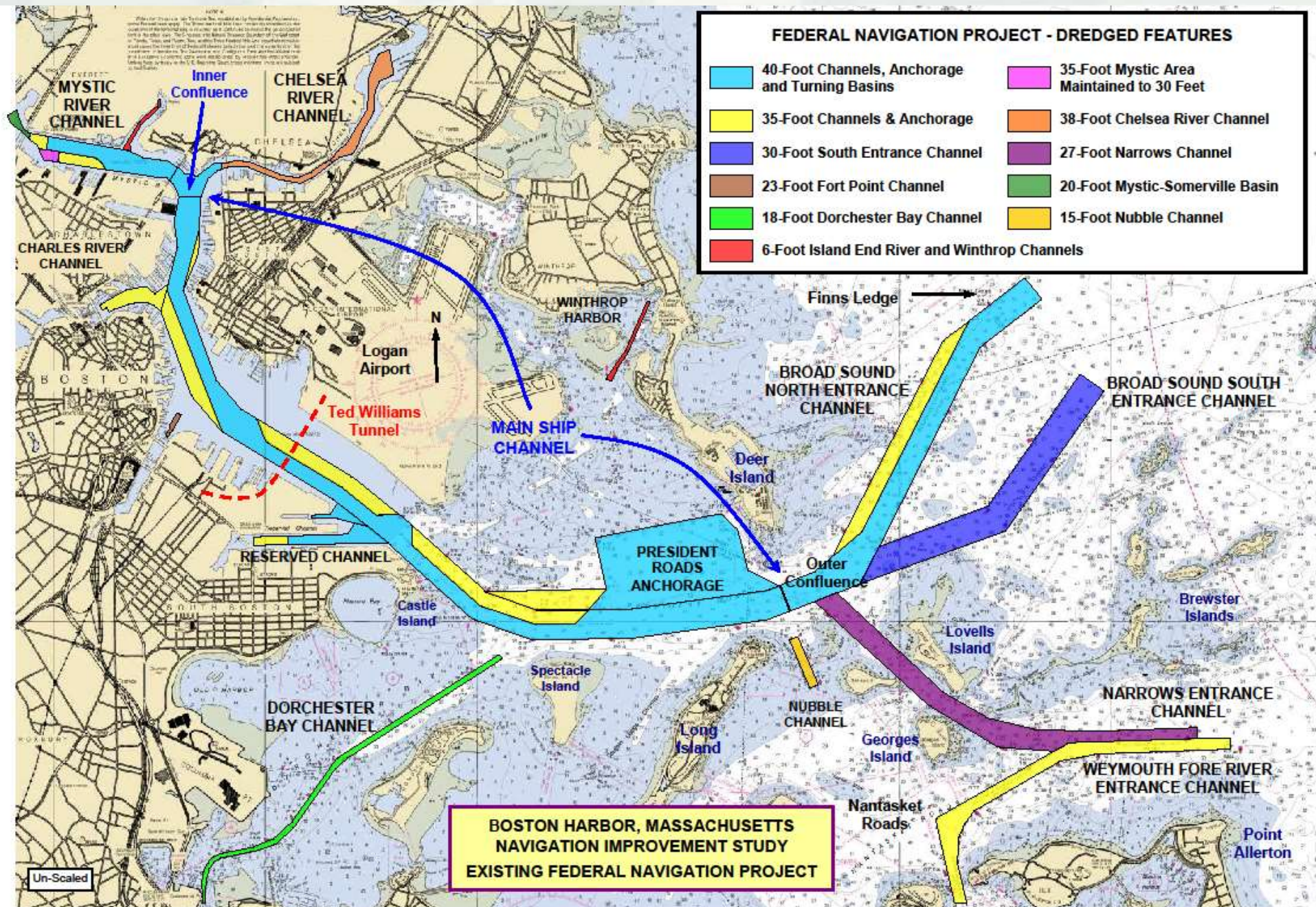
WEDA MEETING Presentation on Boston Harbor Maintenance Dredging and Deep Draft Improvement Projects

October 2017

USACE New England District in Partnership with Massport



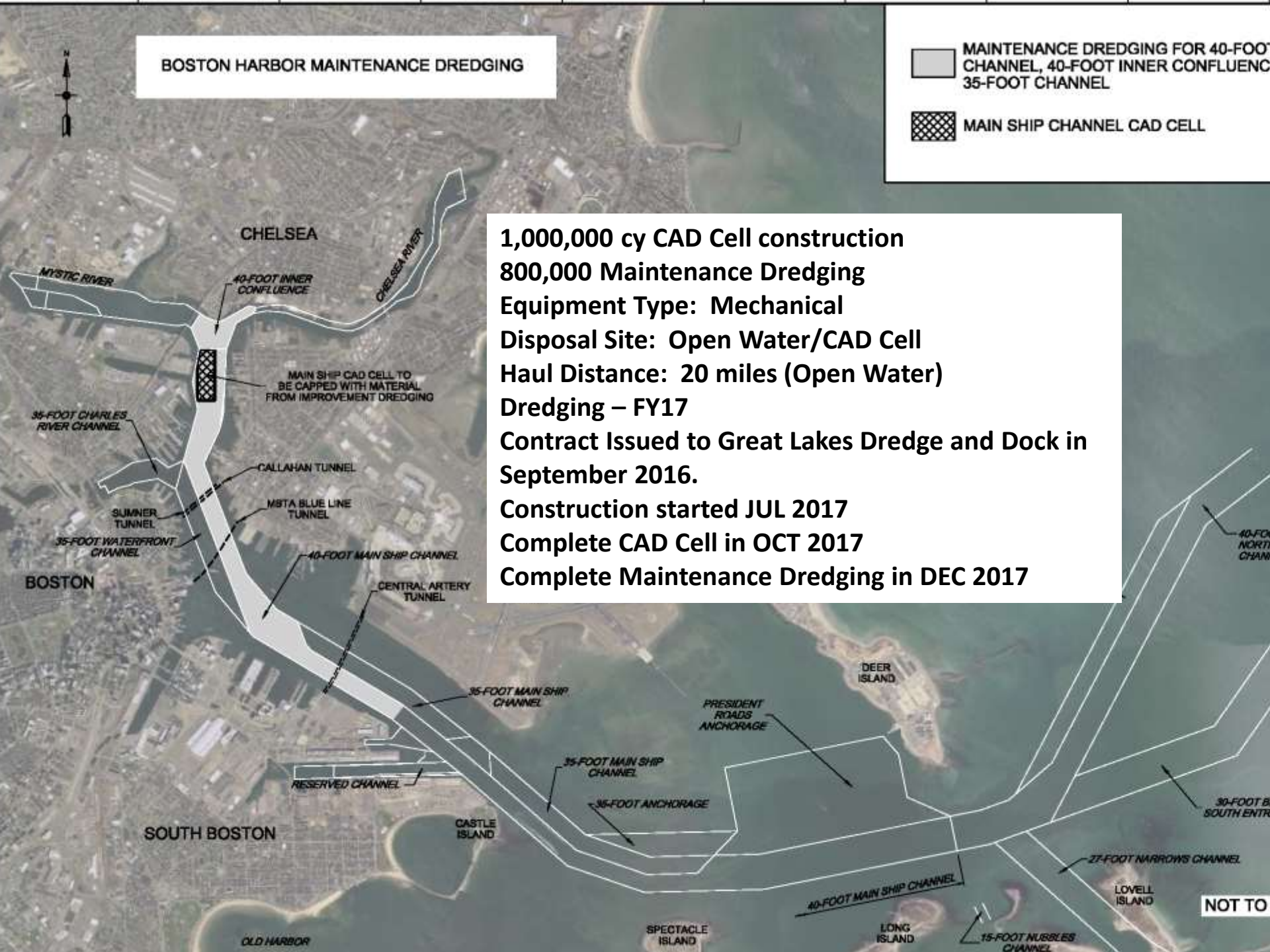
Existing Federal Navigation Project



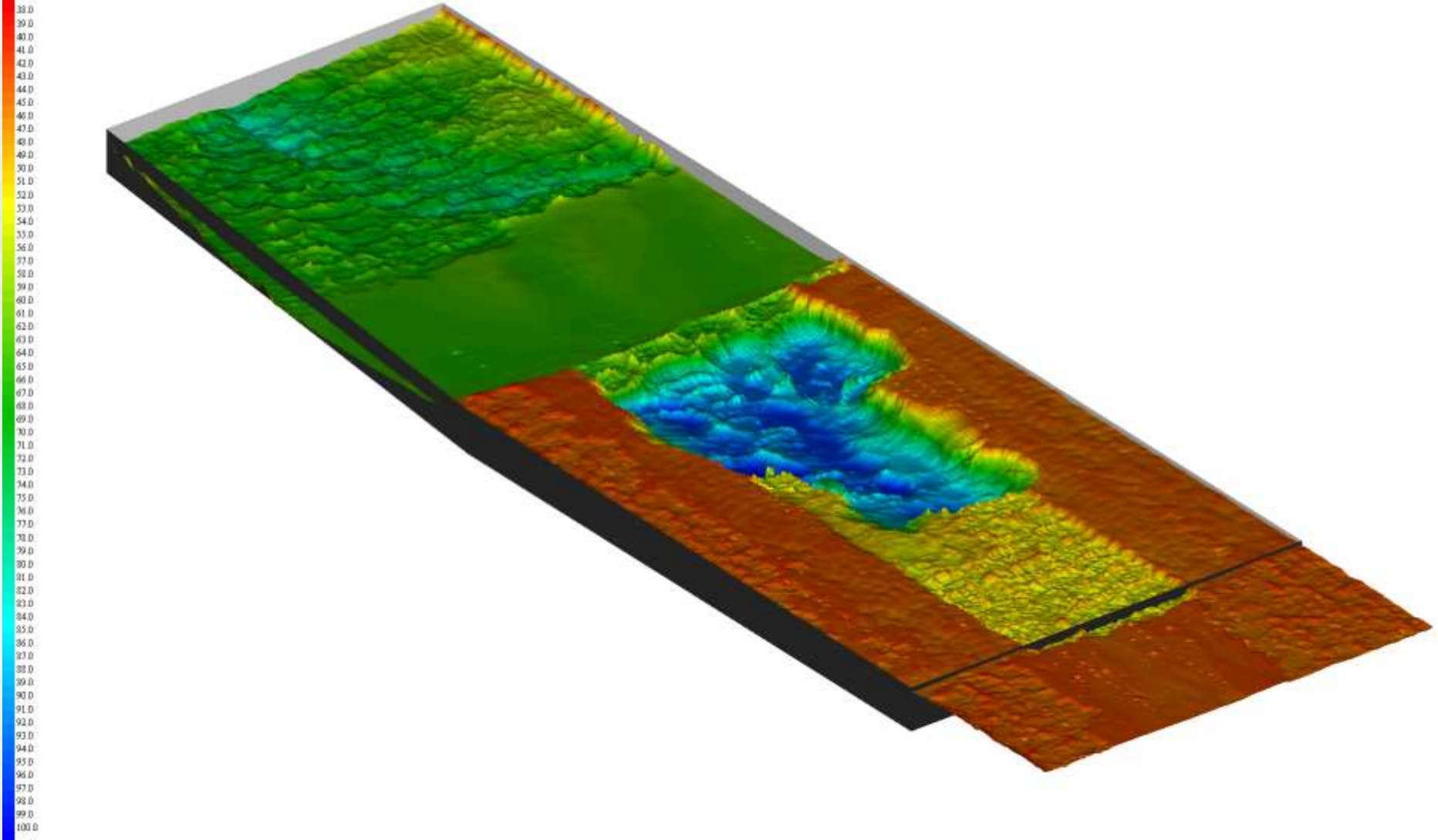
BOSTON HARBOR MAINTENANCE DREDGING

- MAINTENANCE DREDGING FOR 40-FOOT CHANNEL, 40-FOOT INNER CONFLUENCE, 35-FOOT CHANNEL
- MAIN SHIP CHANNEL CAD CELL

1,000,000 cy CAD Cell construction
800,000 Maintenance Dredging
Equipment Type: Mechanical
Disposal Site: Open Water/CAD Cell
Haul Distance: 20 miles (Open Water)
Dredging – FY17
Contract Issued to Great Lakes Dredge and Dock in September 2016.
Construction started JUL 2017
Complete CAD Cell in OCT 2017
Complete Maintenance Dredging in DEC 2017



Boston Harbor Main Ship Channel CAD Cell progress as of 10 SEP 2017



Project Purpose



**Massport's Conley Terminal
on the Reserved Channel**

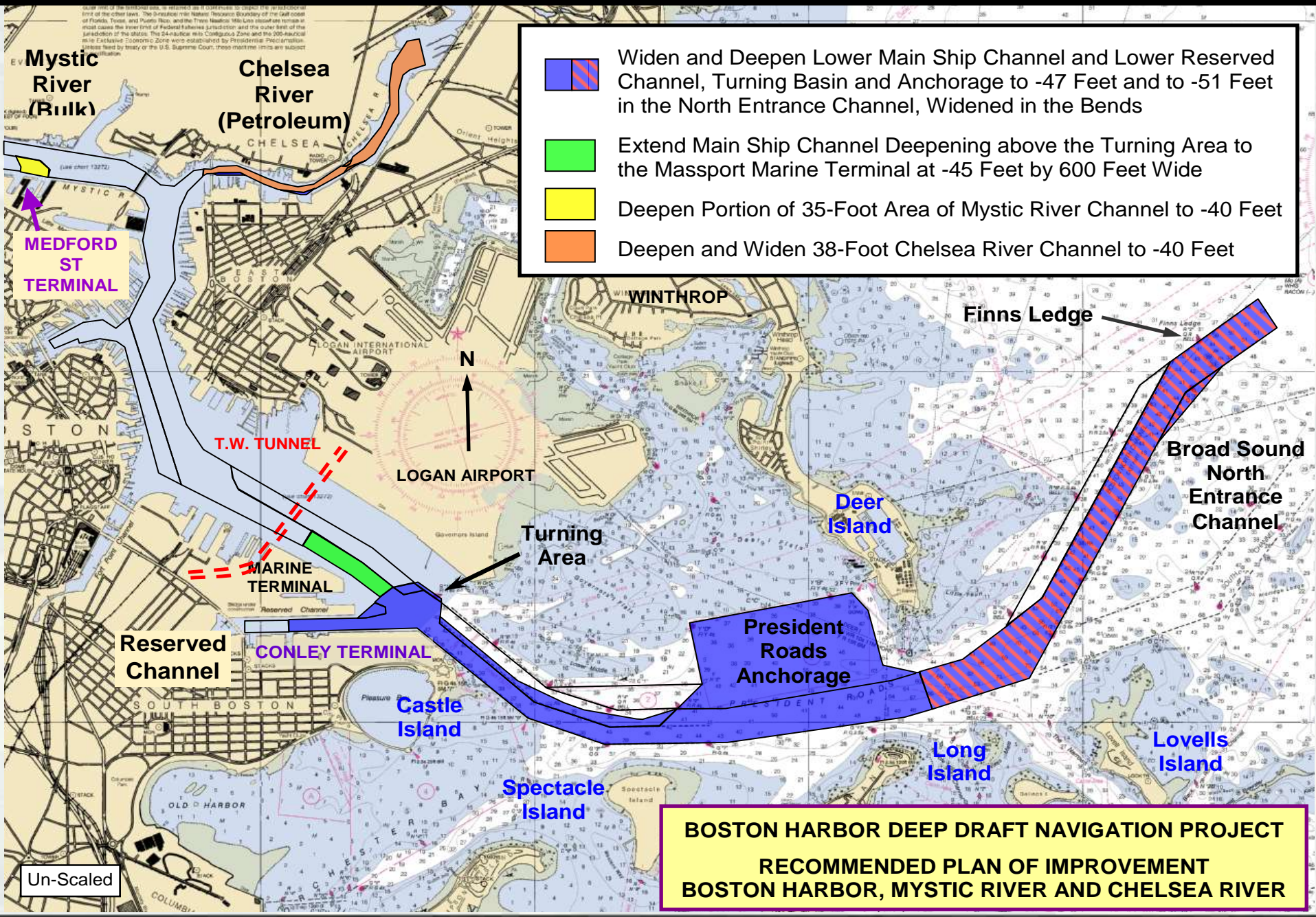
- Provide navigational improvements to the Boston Harbor Navigation Project that improve navigation access to Conley Terminal for larger container ships to allow Boston to retain its 3 existing services as New York and other ports deepen, and allow container cargo currently shipped through New York by truck to shift to direct landing at Boston.
- Provide navigational improvements to the Boston Harbor Navigation Project that will allow larger tankers for both dry bulk and petroleum to access the various terminals and reduce transportation costs

Project Sponsor Massachusetts Port Authority



- Lisa Wieland, Port Director
- Thomas Glynn, CEO

Approved Plan



BOSTON HARBOR DEEP DRAFT IMPROVEMENT PROJECT GENERAL PLAN OVERVIEW

- WIDEN AND DEEPEN NORTH CHANNEL TO -51 FEET
- WIDEN AND DEEPEN LOWER MAIN SHIP CHANNEL, PRESIDENT ROADS ANCHORAGE, LOWER RESERVED CHANNEL AND TURNING BASIN TO -47 FEET
- DEEPEN MAIN SHIP CHANNEL ABOVE MASSPORT TERMINAL TO -45 FEET
- MAIN SHIP CHANNEL CAD CELL

**Quantity: 12,000,000 cy
11,620,000 Gravel/Silt/Clay
380,000 cy Rock
Equipment Type: Mechanical
Disposal Site: Mass Bay DS
Haul Distance: 20 miles
Approx. Dredging – FY18-21**



Summary of Materials to be removed for Boston Harbor Deep Draft Improvement Project

- Total approximate volume of material to get to the Authorized depth is about 12 million CY.
- Approximate volume of hard material (Rock and Till combined) is about 1.2 million CY.
- The approximate volume of rock (weathered and fast/hard) to be removed is about 380 thousand CY.
- The approximate total amount of “fast or hard rock” (compressional wave velocity greater than 2,700m/s) required to be removed is about 100 thousand CY.

OTHER PROJECT CONSTRAINTS

- Very Active Navigation Channel – extensive coordination required with Coast Guard and numerous harbor users
- Proximity to Airport – coordination required with Massport Aviation and FAA in the Logan ATCT. In addition there will be boom height restrictions when dredging near active runways.
- Environmental Constraints – Work is required to be sequenced to the maximum extent feasible to minimize environmental impacts
- No blasting allowed in this contract (Mechanical Equipment shall be used to be remove all material types in this contract)
- Work by others in the Harbor for the installation and removal of the Power supply to Deer Island Waste Water Treatment Plant will be sequenced around. In addition to the Deer Island cable Massport will be doing significant work in the Reserved Channel that will need to be closely coordinated with during our dredging operations.

Project Implementation Schedule

Design Agreement Execution	October 2013
Project Partnering Agreement Execution	September 2017
Mechanical Dredging Contract Award	February 2018
Mechanical Dredging Contract Completion	FY 2021
Fast Rock Removal Contract Start	FY 2021
Fast Rock Removal Contract Finish	FY 2022

Draft Definitive Responsibility Criteria

- Bidders will be required to provide documentation demonstrating their project experience, within the last ten years, in the following areas:
- Dredging by mechanical means a minimum of 350,000 cubic yards in one consecutive 30-day period.
- Dredging hard material with strength characteristics less than fast rock, such as till or weathered rock, to depths of at least 35' with mechanical equipment. The contractor shall also clearly demonstrate the equipment that will be used to mechanically remove the hard material is capable of digging to depths of 50' MLLW.
- Mechanical dredging in coastal waters up to 35 feet deep.

Boston Harbor, Massachusetts

Deep Draft Navigation Improvement



QUESTIONS AND COMMENTS

