

INDIAN RIVER INLET, DELAWARE REPAIR OF COASTAL NAVIGATION STRUCTURES

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Public Affairs Officer

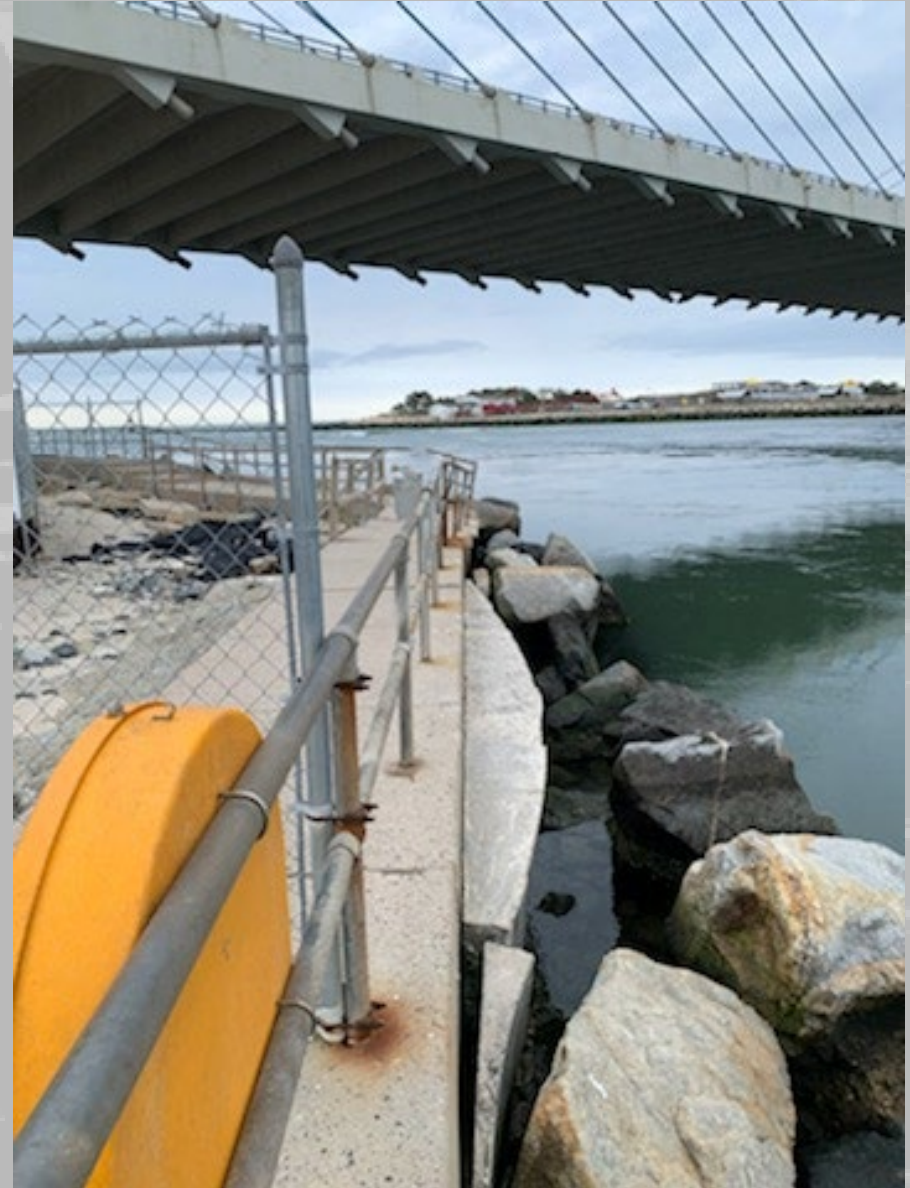
Monica Chasten
Project Manager

Bill Nash
Project Engineer

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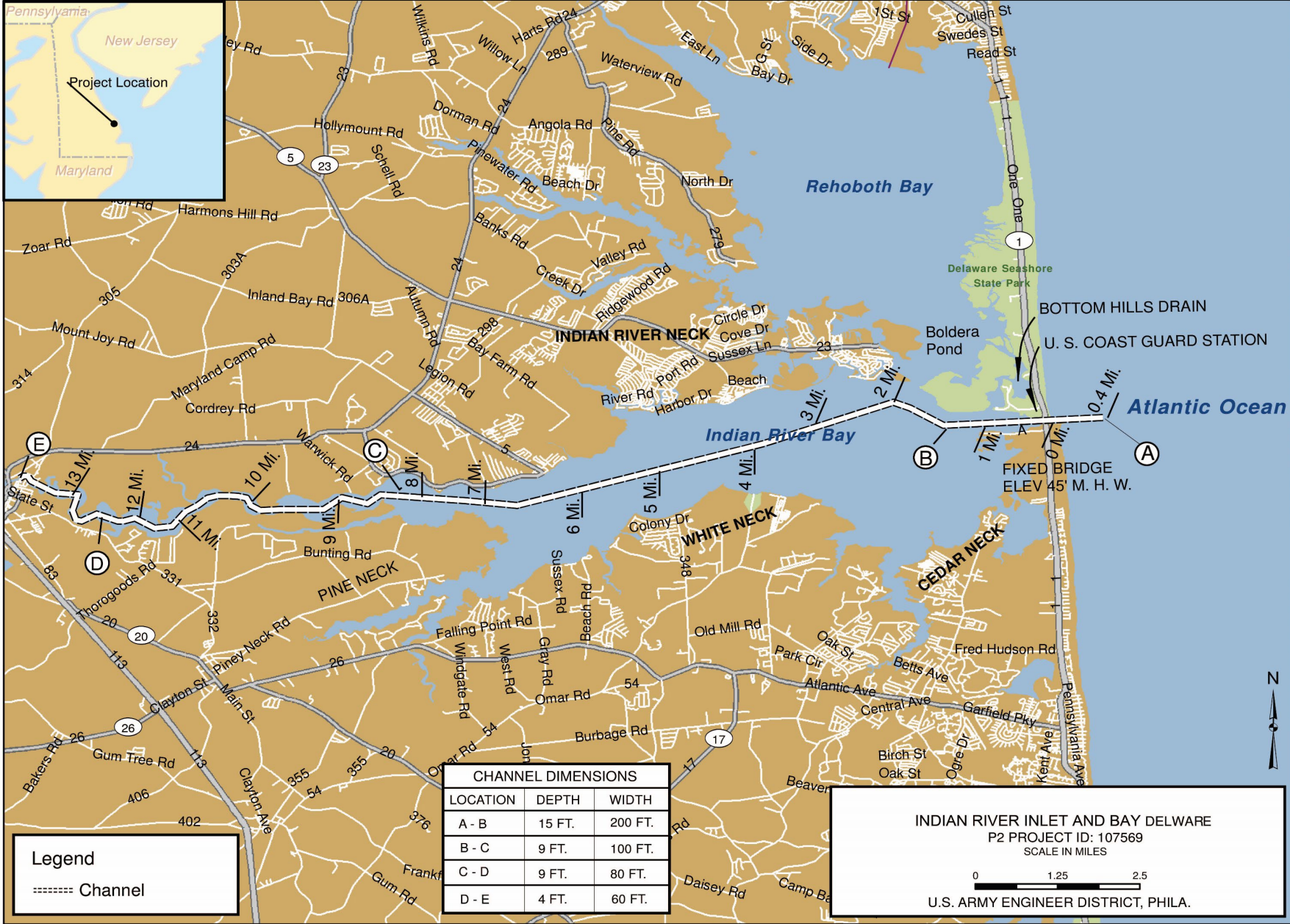
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Meeting Agenda

1. Public Meeting Overview and Introductions (S. Rochette)
2. Summary of Federal Navigation Project and Coastal Navigation Structure Repairs (M. Chasten)
3. Construction of North Bulkhead and South Jetty Repairs (B. Nash)
4. Questions & Discussion





Indian River Inlet & Bay, DE

Federal Navigation Project Repairs

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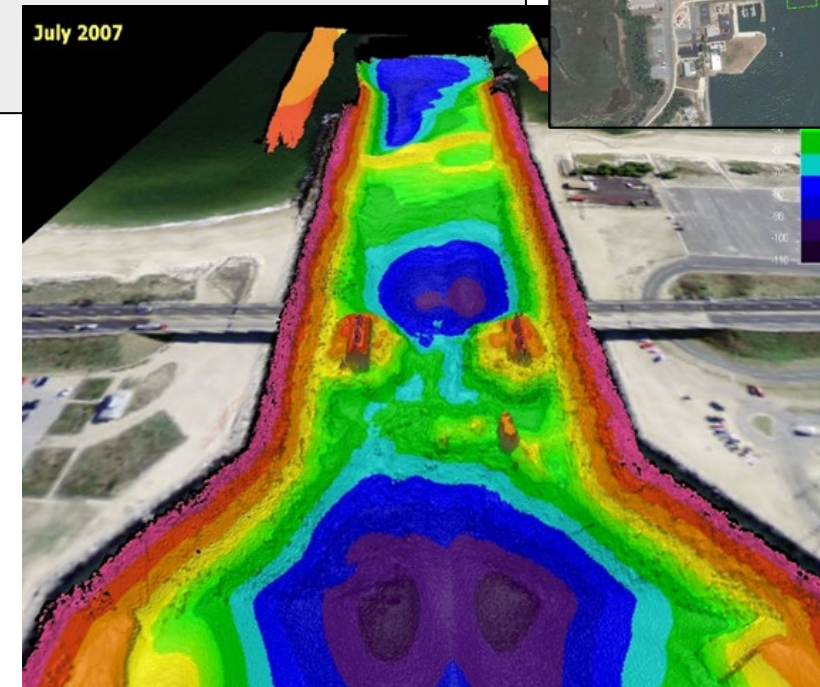
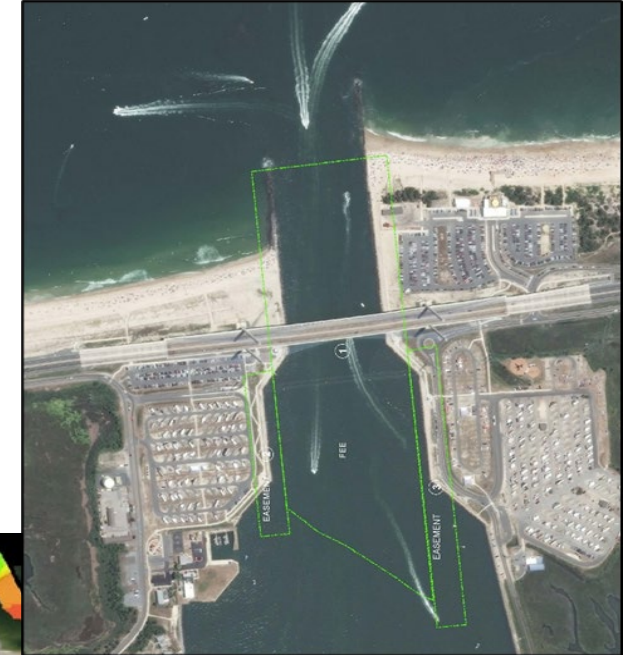


Background:

- The project was authorized by Congress in 1937 and modified in 1945
- The project includes maintenance of a navigation channel approximately 3 miles long and inlet stabilization with parallel jetties and bulkheads. Authorized depth through inlet is 15 ft MLLW.

Issues:

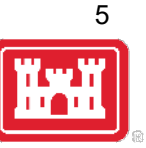
- A bulkhead section along the north shoreline has failed and is comprising USACE and State infrastructure near the Delaware Seashore State Park. Public access to the failed area has been restricted due to safety risk. Design and repair is complex due to the steep slope into the inlet.
- Additionally, the Indian River Inlet jetties are in poor condition with over 350 ft of loss of the north jetty seaward end since 1960
- Deep Scour Holes & Complex Hydrodynamics
- South jetty requires sand-tightening





Indian River Inlet, DE

Jetty and Bulkhead Repairs Funding



- \$43 million received in Fiscal Year 2022 Bipartisan Infrastructure Law for Major Maintenance Repairs (design & construction) of coastal navigation structures at Indian River Inlet
 - North Jetty repair (ongoing evaluation)
 - South Jetty sand tightening (under contract)
 - Failed bulkhead on interior north shoreline (under contract)
- \$150k to develop a sediment budget for the inlet system to reduce the navigation project's Operation & Maintenance costs, evaluate the impacts of climate change in the region and improve project efficiency and resilience for multiple federal projects in the region (ongoing evaluation)

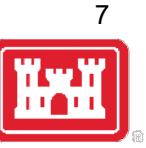


Project Overview





Indian River Inlet North Jetty Repair

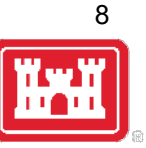


- Fiscal Year 2023 contract solicitation proceeded with North Bulkhead and South Jetty repairs since north jetty required further evaluation
- USACE's Committee on Tidal Hydraulics Participation
- CMS & GenCade Modeling underway by USACE's Engineering Research and Development Center
- Data Collection Efforts
 - Hydrodynamic data (Summer 2023)
 - Inlet bathymetry & topo surveys (periodic)
 - Geotechnical investigations (2024)



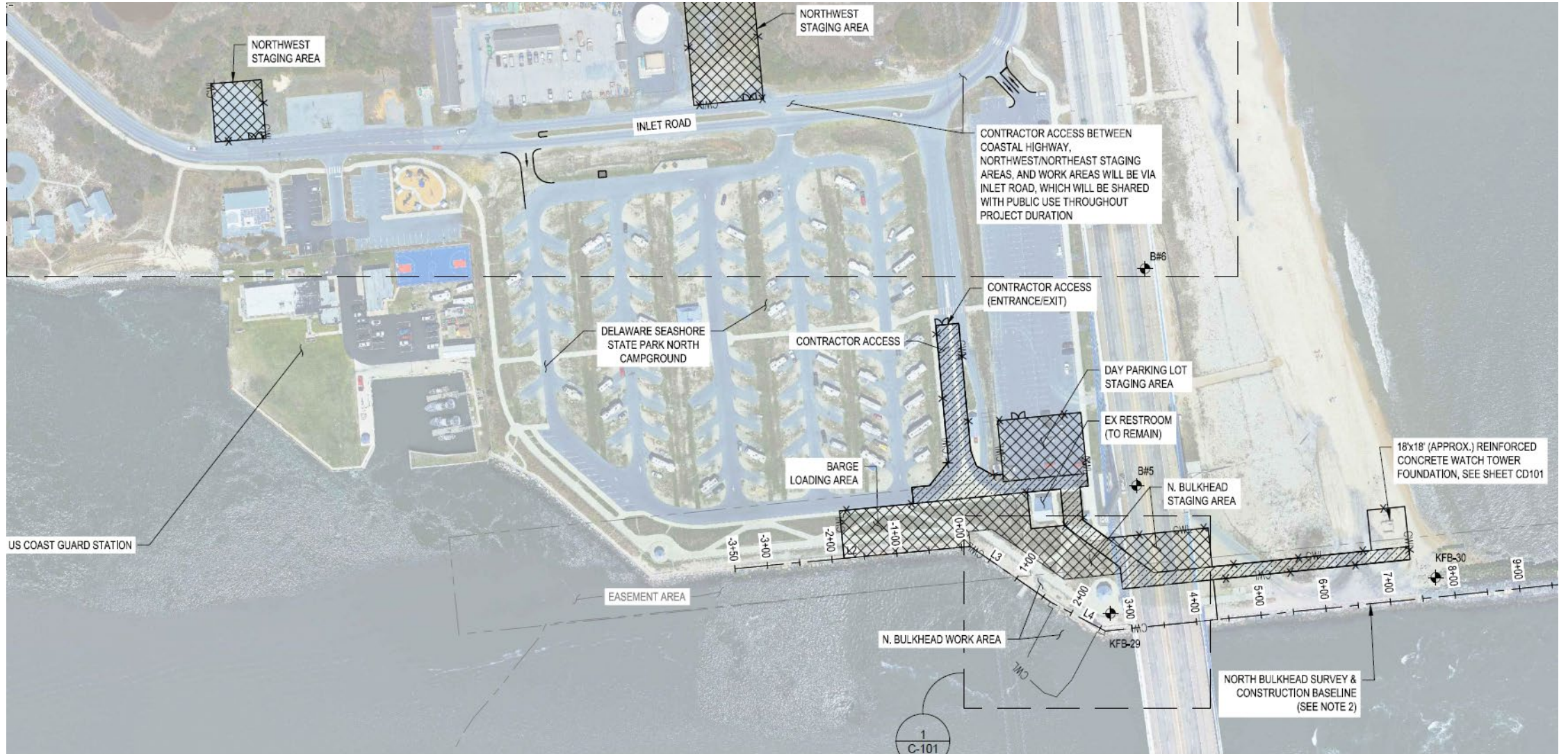


North Bulkhead & South Jetty Repairs Milestone Schedule *(Subject To Change)*

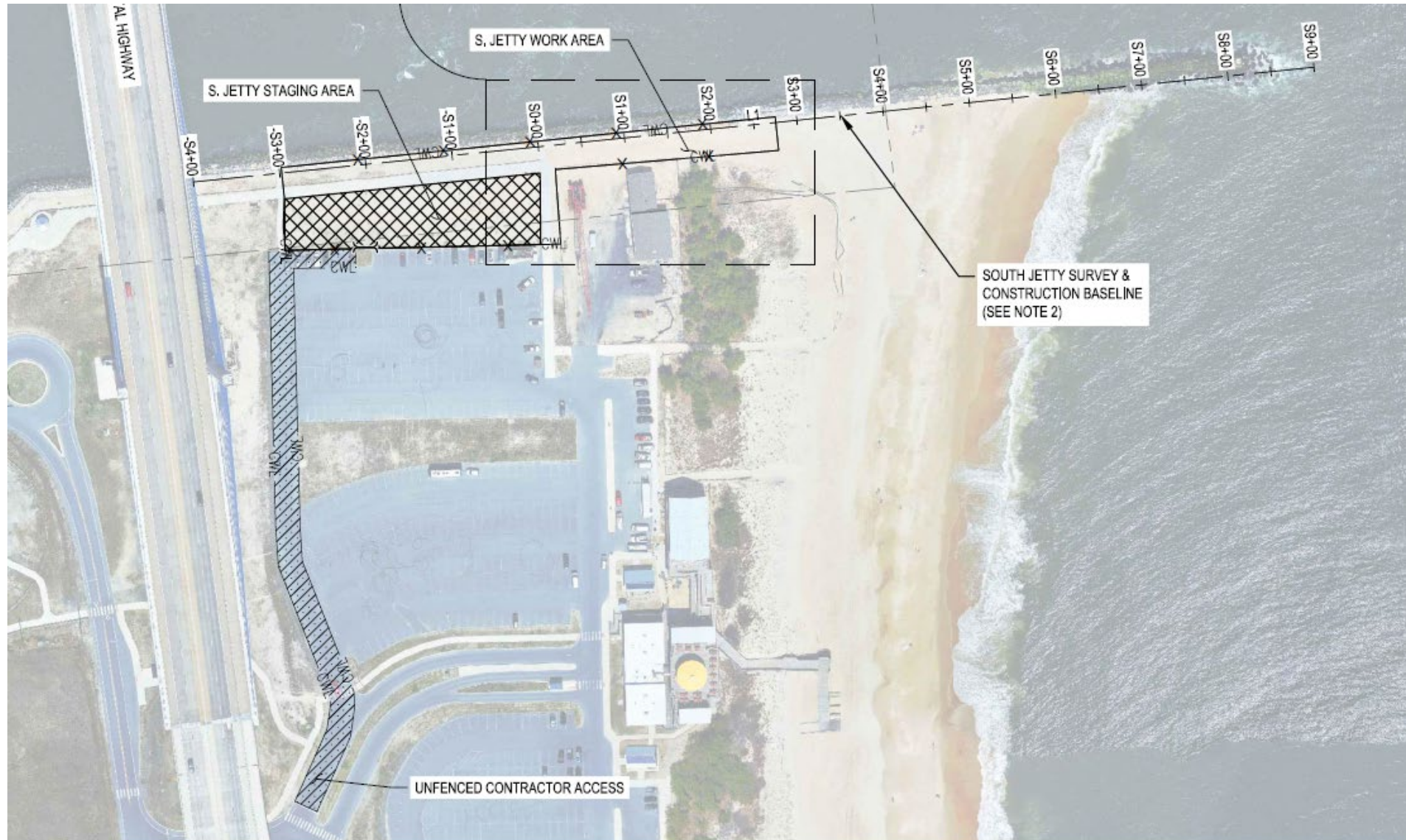


- Contract Award: September 22nd 2023 to Agate Construction
- Notice to Proceed: October 12th 2023
- Phase 1 Mobilization: March 23rd 2024
- Phase 2 Mobilization: April 22nd 2024
- North Bulkhead Start: May 6th 2024
- South Jetty Start: September 16th 2024
- Contract Required Completion: April 4th 2025

Limits of Construction - North Jetty



Limits Of Construction - South Jetty



Parking Lot Access Plan





Discussion

