

TERMINAL 5 IMPROVEMENTS

Construction Progress

February 27, 2020



Terminal 5 – Program Overview

Primary Elements of Scope

- **Berth Modernization**

- Crane Rails
- Dock Rehabilitation
- Slope Stabilization
- Berth Deepening
- Power Supply/
Distribution

- **Uplands Improvements**

- Storm water
- Marine Buildings
- Permit Conditions
- Lease Obligations



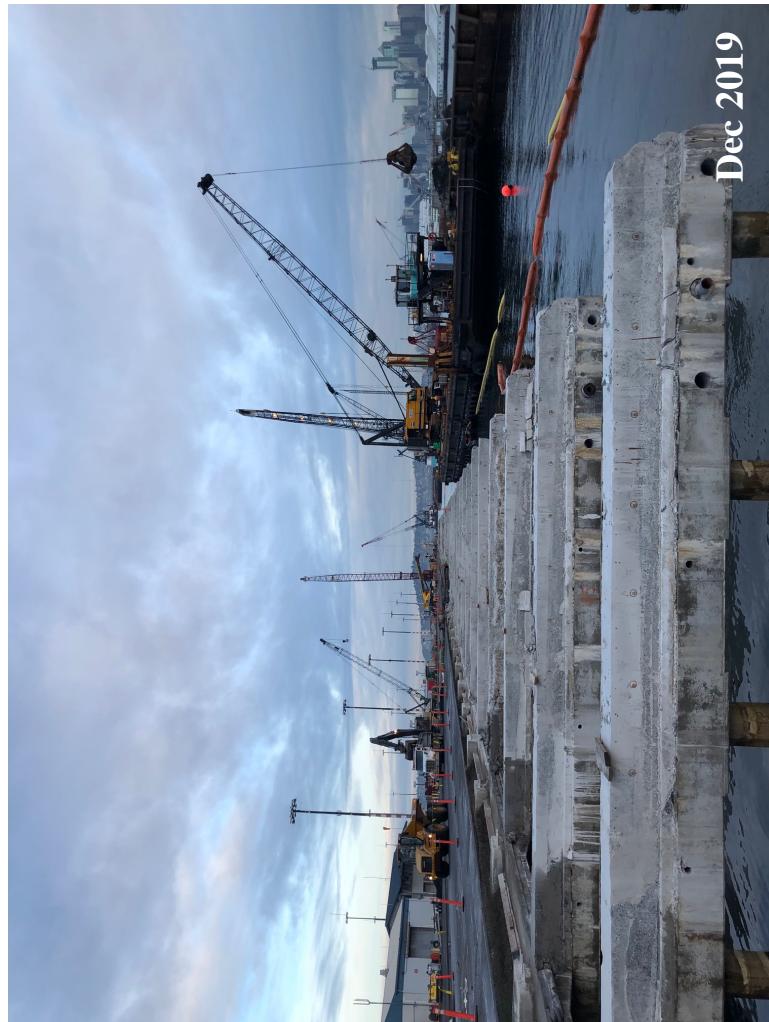
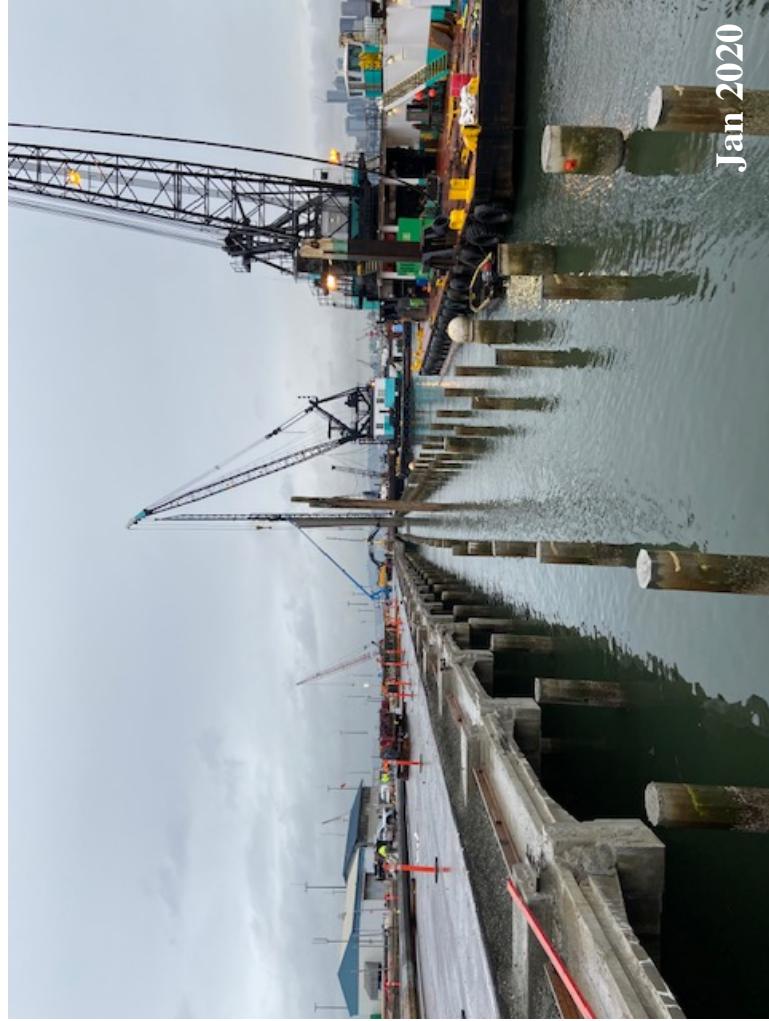
*A new primary substation upgrades the
Terminal 5 power supply from 5 MW to 25 MW.*



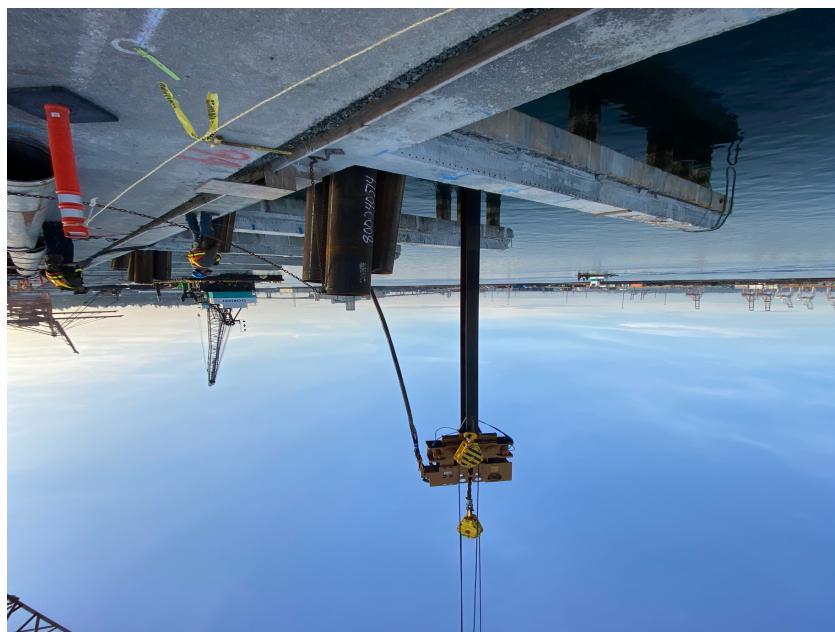
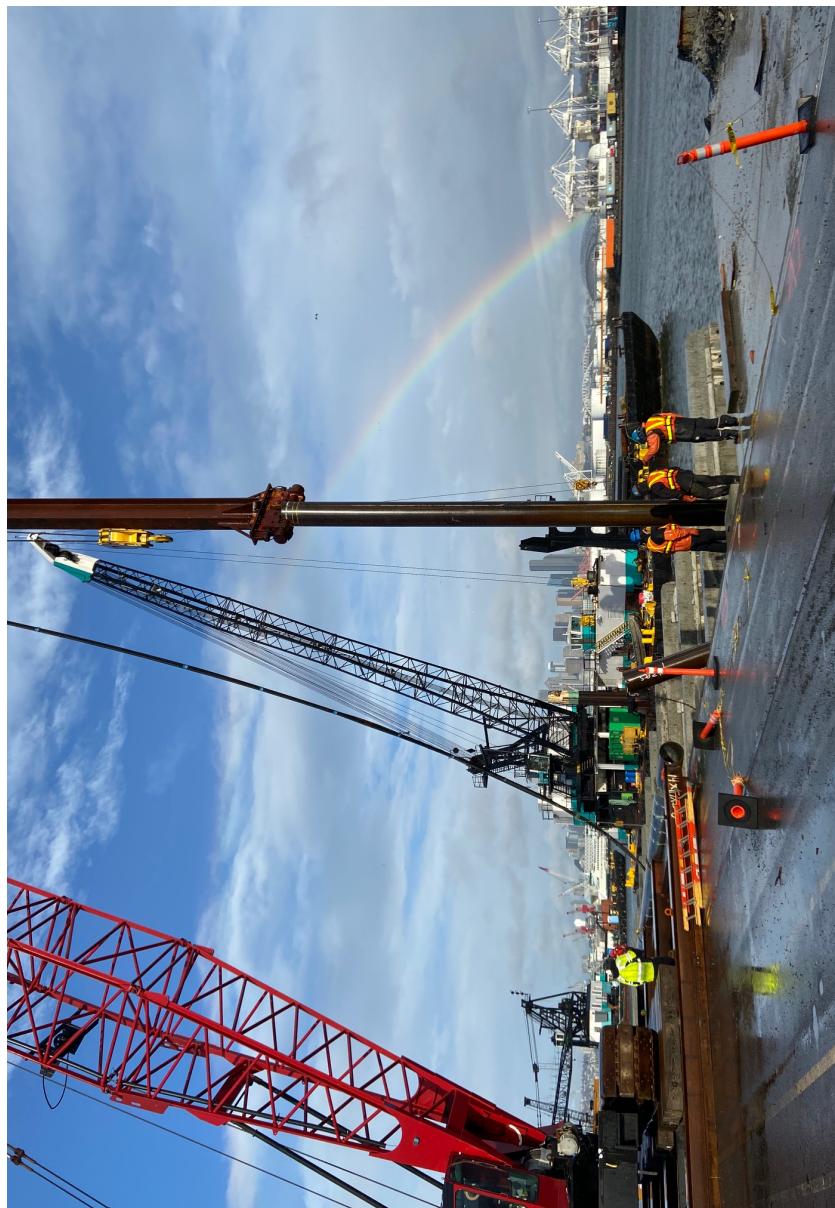
Construction continues on the new Terminal 5 primary substation that will provide increased power to include shore power capabilities.



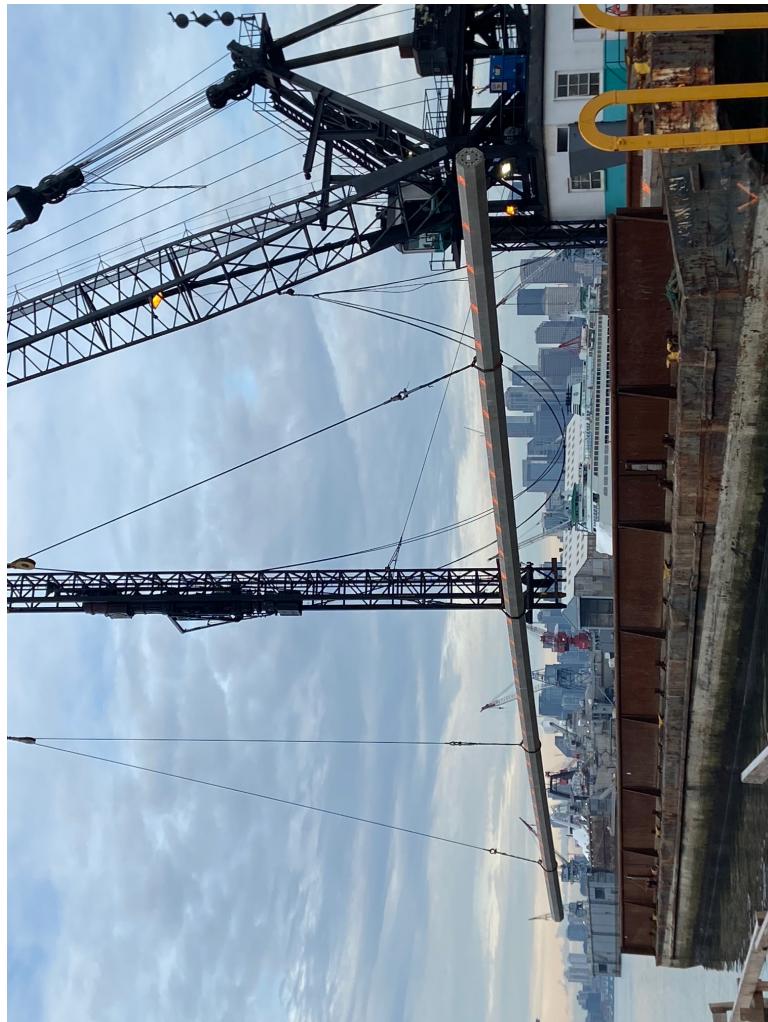
Crews removed piles and pile caps to make way for upgraded beams, piles, and deck panels. These dock upgrades will support the weight of larger cranes.



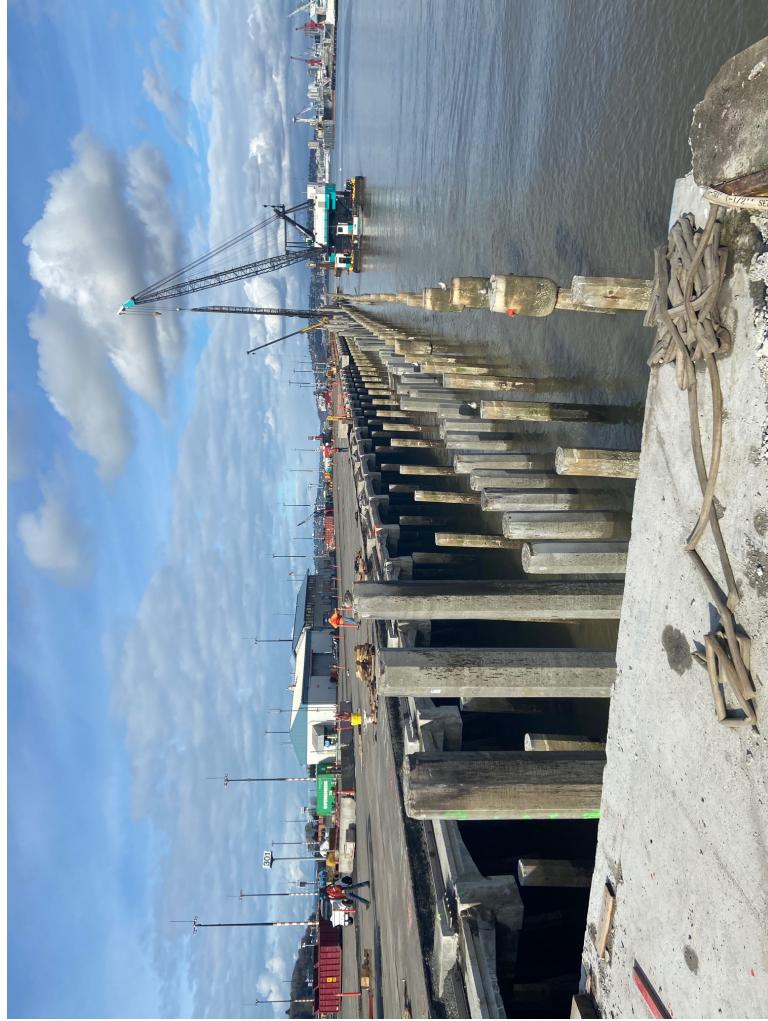
Steel pinch piles were used to stabilize the slope.



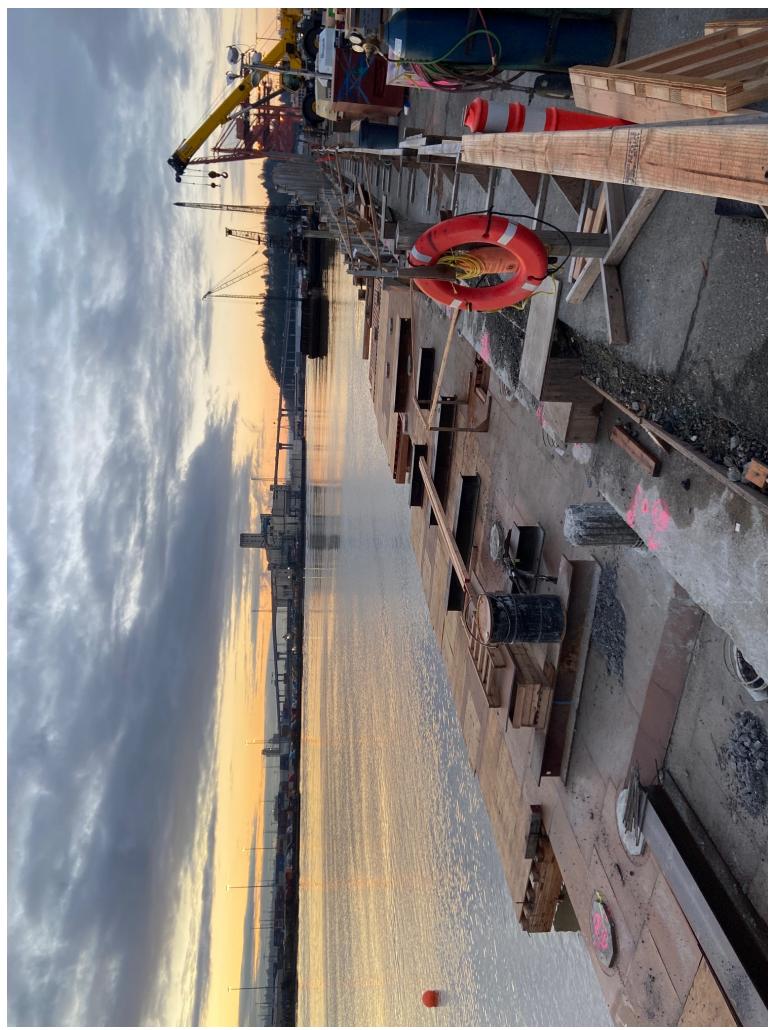
New concrete piles will strengthen the Terminal 5 dock structure to support the weight of the super post-Panamax cranes that can work larger ships.



*The first round of in-water pile driving at Terminal 5 is nearly complete.
153 structural concrete piles will support the waterside crane rail and
388 steel pinch piles were installed for slope stabilization.*



A temporary over-water structure (falsework) is being installed at Terminal 5 that will support the new cast-in-place concrete wharf structure while the concrete is curing.



Crews demolished existing container crane rails and excavated trenches to prepare the site for the super post-Panamax cranes at Terminal 5.



Piles are being driven through trenches and a concrete beam will be placed on top of the piles to strengthen the foundation for the new landside crane rail beam.



Terminal 5 improvements include new utilities (electrical, water, and sewer lines). Waterline installation work is ongoing and electrical infrastructure installation continues around the substation and administration building.



Waterline potholing



Waterline excavation



Waterline installation



Electrical vault installation

Terminal 5 – Programmatic Schedule

Construction 18% complete; 20% time elapsed

