

Monthly Report No. 029

September 1, 2023 – September 28, 2023

KAPALAMA CONTAINER TERMINAL WHARF AND DREDGING

Job HC 10498

Honolulu Harbor, Oahu, Hawaii

Prepared for:



State of Hawaii
Department of Transportation
Harbors Division

Prepared by:



Harbors Project No. H.C. 10498

MONTHLY REPORT NO. 029

Period of September 1 – September 28, 2023
Kapalama Container Terminal Wharf and Dredging
Honolulu Harbor, Oahu, Job HC 10498
State of Hawaii, Department of Transportation, Harbors Division
Contract No. 69245

A. PROJECT SUMMARY

Project:	Kapalama Container Terminal Wharf and Dredging
Project Number	HC 10498
Location	Honolulu Harbor, Oahu
Owner	State of Hawaii Department of Transportation; Harbors Division
Design Consultant	Moffatt and Nichol
General Contractor	Kiewit Infrastructure West Co.
Construction Manager	Yogi Kwong Engineers, LLC
Notice to Proceed Date	January 4, 2021
Contract Completion Date	April 4, 2024 (To Be Amended) July 31, 2025 (Pending New Contract Amendment)

B. CURRENT PROJECT SCHEDULE

(See next page)

MAJOR ACTIVITY:	COMPLETION DATES AS OF KIWC JULY 2023 SCHEDULE:					DD-MON-YYYY: ACTUAL COMPLETION DATE (Month Year) = Anticipated Completion Date**
	PIER 41	PIER 42	SNUG HARBOR	PIER 43	HC 10502 (Ph 1)	
HDD Submarine Water Line - Completed	N/A	N/A	N/A	21-July-2023	N/A	
<i>Mass Grading</i>	13-May-2021	06-July-2021	N/A	(August 2023)	N/A	
Landside Demolition - Completed	13-April-2021	27-April-2021	N/A	16-Feb-2022	N/A	
In-Water Demolition - Completed	29-Oct-2021	N/A	19-Nov-2021	N/A	N/A	
<i>Stone Columns (Pre-drill)</i>	06-Oct-2021	5-Aug-2021	6-July-2022	(August 2023)	N/A	
<i>Stone Columns (Installation)</i>	14-Oct-2021	12-Aug-2021	6-July-2022	(September 2023)	N/A	
<i>Combi-Wall (Pre-Drill)</i>	29-Oct-2021	17-Dec-2021	29-Sept 2022	(October 2023)	N/A	
<i>Combi-Wall (Installation)</i>	28-Sept-2022	28-April-2023	4-Nov-2022	(November 2023)	N/A	
<i>Surcharge Period</i>	28-April-2023	N/A	(September 2024)	N/A	N/A	
<i>Tie Rods</i>	25-April-2023	(January 2024)	(October 2024)	(June 2024)	N/A	
Capping Beam	(October 2023)	(February 2024)	(March 2024)	(June 2024)	N/A	
<i>Tie Rod Deadman</i>	22-Dec-2022	N/A	N/A	N/A	N/A	
Land Side Crane Rail Beam	N/A	(February 2024)	(August 2023)	(April 2024)	N/A	
<i>Water & Electrical Utilities</i>	(October 2023)	(September 2024)	(October 2024)	(July 2024)	N/A	
<i>Drainage Structures</i>	(March 2024)	(January 2025)	(October 2024)	(August 2024)	N/A	
Water Side Crane Rail Beam	N/A	(June 2024)	(August 2024)	(October 2024)	N/A	
<i>Concrete Tie-Beam</i>	N/A	(August 2024)	(September 2024)	(February 2025)	N/A	
Crane Rails Installed	N/A	(December 2024)	(February 2025)	(April 2025)	N/A	
Crane Substation Switchgear & Transformer Delivered to KCT	N/A	(Dec 2023 – Jan 2024)	N/A	N/A	N/A	
Crane Substation	N/A	(November 2024)	N/A	N/A	N/A	
Dredging	(January 2024)	(March 2025)	(March 2025)	(September 2024)	N/A	
Fenders Installed	(August 2024)	(January 2025)	(February 2025)	(July 2025)	N/A	
PCC Pavement	(July 2024)	(November 2024)	(January 2025)	(May 2025)	(July 2024)	
<i>Cathodic Protection</i>	(July 2024)	(November 2024)	(January 2025)	(May 2025)	N/A	
<i>Pavement Striping</i>	(August 2024)	(January 2025)	(February 2025)	(July 2025)	(September 2024)	
TWIC Fencing	N/A	N/A	N/A	(July 2025)	(September 2024)	
PROJECT COMPLETION	(JULY 31, 2025)					

MONTHLY REPORT NO. 029

Period of September 1 – September 28, 2023
Kapalama Container Terminal Wharf and Dredging
Honolulu Harbor, Oahu, Job HC 10498
State of Hawaii, Department of Transportation, Harbors Division
Contract No. 69245

C. ACTIVITIES

Work observed at Pier 41:

- KIWC began excavation of the post-contract deadman near the corner of P41 and P40F (from STA 28+78 to 29+56.6)

Work Observed at Pier 42:

- KIWC continues their work on the concrete bulkhead capping beam at sections Pour 3 and 4 (STA 15+70 to 17+76).
- KIWC continues their work on the concrete landside crane rail beam at section Pour #1. Work included excavation of the area and installation of the tie rods.

Work Observed at Pier 43:

- KIWC completed concrete installation at Pour #5 of the landside crane rail beam.
- KIWC continued installation of tie rods and rebar reinforcements at Pour #4 and Pour #6, respectively.
- KIWC completed installation of stone columns on the landside of the waterside crane rail beam, which was previously inaccessible by the HDD/BWS Tie-In Delay.
- KIWC resumed combi-wall predrilling, which was previously idle by the HDD/BWS Tie-In Delay.

Work Observed at Snug Harbor:

- Keller North America (KNA) completed installation of the wick drains. KIWC will continue backfilling the wick drain holes and prepare the site for surcharging, which is anticipated next month.

Work Observed at PCCP:

- KIWC began pouring Part II blockouts starting with the two blockouts nearest to the future Amazon site and Department of Agriculture (DOA). After installation of concrete, KIWC was required to remove selected concrete panels due to issues with final slope and grade. KIWC will continue concrete installation when paving crew becomes available.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KNA continued predrilling for installation of wick drains at the Snug Harbor surcharge area



KNA installing a wick drain to 54' bgs due to the GPS system not functioning properly



KIWC installing formwork for P43 LSCRB pour #6.



KNA continued predrilling for installation of wick drains while the GPS system is being adjusted for the wick rig



Pier 43: KIWC carpentry crew continued to install the chamfers and adjusted the top cross beams



KIWC installing formwork for P42 capping beam pour #4.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KNA predrilling for installation of wick drains in the Snug Harbor surcharge area



KNA replaced the sheared piece of auger and removed the auger from the ground



KNA progress predrilling this shift



KIWC installing formwork around the pier 43
LSCRB pour #5



View of the P42 LSCRB pour #1 excavation.



KIWC installing formwork around the pier 43
LSCRB pour #5

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KNA installing wick drains in the Snug Harbor surcharge area



KNA predrilling a pilot hole prior to predrilling to depth



Depth of cores on 8" thick PCCP.



KIWC installing formwork around P43 LSCRB pour #5.



KIWC pouring CLSM in the cut off wall excavation on pier 43.



KIWC removing formwork from around P42 capping beam pour #1.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KIWC installed dowels for paving the blockout west of the KIWC construction trailers



View of the LSCRB rebar and formwork on Pier 43



APL striping the P51 parking lot.



KIWC wrapping tie rods on the PCCP.



HRSPI installing rebar cage for P42 capping beam pour #3.



KIWC pouring CLSM for a cut off wall along the waterfront of pier 43.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KNA predrilling to 32.5' bgs for installation of wick drains in the Snug Harbor surcharge area



KNA lost 10' of auger 30' bgs in the hole while predrilling for installation of the wick drains



KNA installing wick drains in the Snug Harbor surcharge area



KNA installing wick drains 47' bgs in the Snug Harbor surcharge area



KNA installing wick drains for the remediation areas in the Snug Harbor surcharge area



KNA installing wick drains in the Snug Harbor surcharge area

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KNA installing wick drains in the Snug Harbor surcharge area



KNA finished installation for the shift



KIWC and KNA installing wick drains in the Snug Harbor surcharge area



HRSPI installing the reinforcement for P3 of the cap beam on Pier 42



HL shooting the anchor wall to determine if it is moving



View of P5 of the LSCRB on Pier 43

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KNA continued installation of wick drains in the Snug Harbor surcharge area



KIWC prepping to remove the crane rail blockout formwork for P5 of the LSCRB



KIWC continued predrilling for installation of the combi wall on Pier 43



KNA predrilling remediation locations for the wick drain installation



PCCP: Block out "A" - KIWC civil crew used the CAT 304 mini excavator to grade the basecourse aggregate



PCCP: Blockout - "A" - East section of the existing PCC not aligned with the expansion seal (15" thick)

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KIWC prepping to fly formwork for installation on P6 of the LSCRB on Pier 43



KIWC predrilling for installation of the combi wall on Pier 43



View of the utility blockout in the LSCRB P6 on Pier 43



KIWC predrill crew departing from the site



KIWC finishing the surface of capping beam pour #4 on pier 42.



KIWC setting up a wet cure for Pier 42 capping beam pour #4.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KIWC predrilling for the combi wall on Pier 43.



NCS sawcutting PCCP blockouts on the pavement.



HRSPI installing rebar cage for Pier 42
LSCRB pour #1.



KIWC predrilling for the combi wall on Pier 43.



HRSPI installing rebar cage for Pier 42
LSCRB pour #1.



KIWC predrilling for the combi wall on Pier 43.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



View of the LSCRB P5 on Pier 43



KIWC backfilling wick drains in the Snug Harbor surcharge area



KIWC predrilling for installation of the combi wall piles on Pier 43



Pier 43: HRSPI crew on site to continue installing the remainder of the stirrups of the top mat rebar cage for Pour #6



Pier 43: KIWC foundation crew continued to predrill the combi wall



KIWC installing tie rods in LSCRB pour #1 on pier 42.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KIWC continued installation of the LSCRB P6 on Pier 43



KIWC progress backfilling the wick drains with S4C in the Snug Harbor surcharge area



KIWC departing from the site



Pier 43: KIWC Foundation crew continued to predrill for the combi wall



Pier 43: KIWC carpentry crew continued to install the wooden forms for the storm drain on the land side of the LSCRB



View of tie rod coupler.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KIWC cutting the ends of the tie rods at the P42 combi wall



KG drilling location 173 for SPT testing on Pier 43



HRSPI progress fabricating rebar cages for the trench drain on Pier 41



Pier 43: KGI crew set up the drill rig for SPT sampling verification boring # 173



KIWC installed a new 30' tie rod for one of the skewed tie rod sets in LSCRB pour #1.



KIWC trenching for tie rods on pier 42.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



KIWC departed from the site



Pier 43: KIWC carpentry crew continued to strip the forms from Pour #5 of the LSCRB



Pier 43: Recovered sample from the SPT sampling consisted of white coralline silty sand and gravel from 30.5'bgs



KIWC installing tie rods between LSCRB pour #1 and the capping beam.



KIWC excavating for tie rods on pier 42.



KIWC excavating for tie rods on pier 42.

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



Pier 42: HRSPI crew continued to install the rebar cage for Pour #1 of the LSCRB



Pier 42: HRSPI crew continued to install the rebar cage for Pour #1 of the LSCRB



Pier 42: HRSPI crew continued to install the hoops around the CIDH piles



Pier 42: HRSPI crew continued to install the #11 rebar for the walls of Pour #1 of the LSCRB



Pier 42: HRSPI crew continued to install the #11 rebar for the walls of Pour #1 of the LSCRB



Pier 42: HRSPI crew continued to install the #11 rebar for the walls of Pour #1 of the LSCRB

H.C. 10498 KAPALAMA CONTAINER TERMINAL YARD WHARF AND DREDGING
MONTHLY REPORT NO. 029
SEPTEMBER 1 TO SEPTEMBER 28, 2023



Pier 41: Approximately STA 28+60 to 29+56.6
- KIWC civil crew continued to excavate the subgrade for the Deadman extension



Pier 41: Bridge and Marine crew moved the silt curtain storage from the west (Pier 41) to the east (Pier 40)



Pier 41: KIWC civil crew continued to excavate the subgrade to expose the north end of the existing Deadman



KIWC masons patching the landside of P2 to P4 of the LSCRB on Pier 43



KIWC progress excavating P0 of the deadman on Pier 41



KIWC installing formwork around capping beam pour #3.