RFI 165
Pebble Project EIS

Request for Information

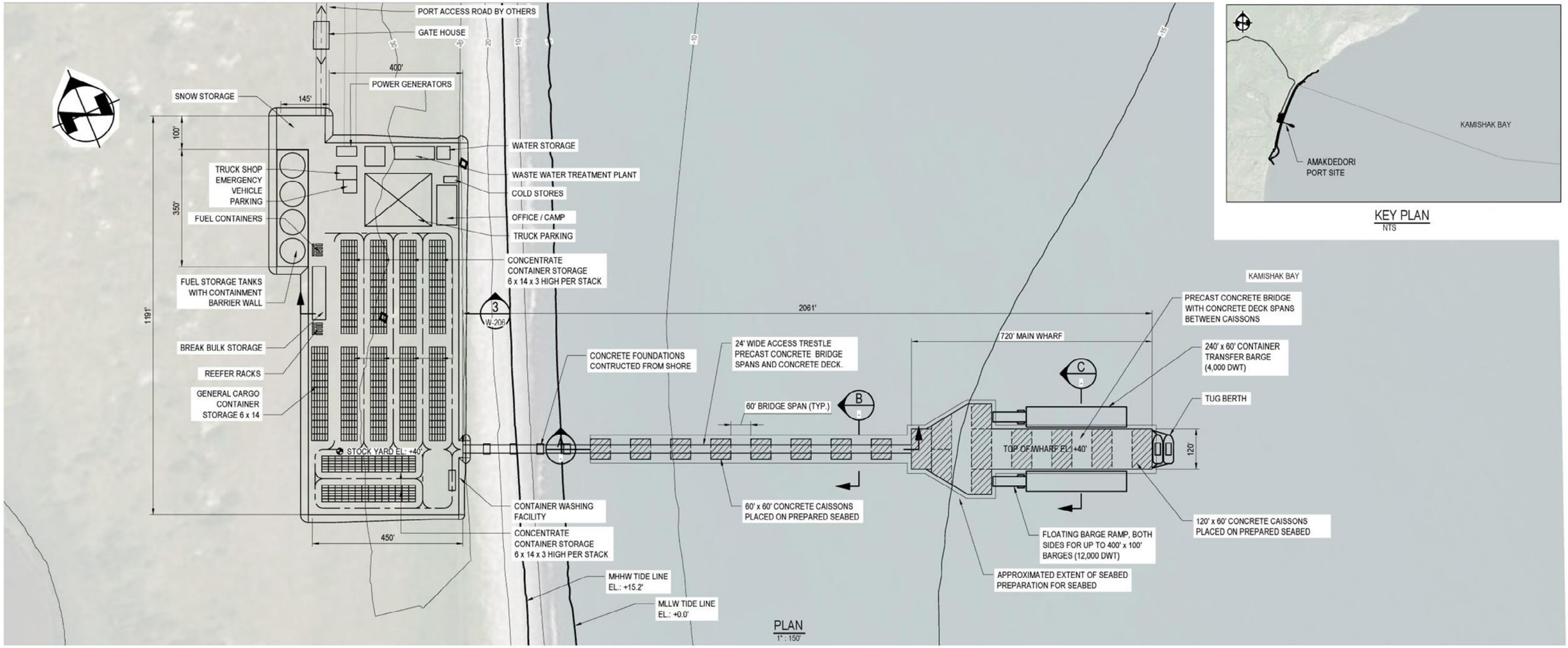
Title/Subject:	**Caisson Dock Lengthwise Cross-Section**
Requestor:	AECOM
Date Transmitted:	4/3/2020
Recipient:	Pebble Limited Partnership
Response Requested by:	4/13/2020
Rationale:	Additional details are needed for the proposed caisson dock design to support the impact analyses in the EIS.
Describe the Information Requested and Level of Detail:	Please provide a lengthwise cross-section of the caisson dock design at the Amakdedori port for a better understanding of the openings to assess the potential effect on nearshore sediment transport. Additionally, please edit the narrative below, as appropriate, to better explain the preferred caisson dock design, especially related to the openings in the structure. *Marine facilities would include a causeway/access trestle (maximum width of 24 feet by 1,340 feet long) extending out to a marine jetty/main wharf (maximum width of 270 feet by 720 feet long) at 15 feet below mean lower low water (MLLW). The causeway and jetty would be constructed using concrete caissons (60 feet by 60 feet and 120 feet by 60 feet) to support a concrete deck (PLP 2019b).*

Recipient Response Form

Date Received from USACE:	Click here to enter text.
Response from Recipient (Describe Information Requested to the Level of Detail Requested; Provide Attachments as Needed):	*Marine facilities would include a causeway/access trestle constructed using 60x60 foot concrete caissons. The caisson footprints would be leveled, and the caissons placed 60 feet apart to allow for the free flow of sediment and water parallel to the shoreline. The concrete deck of the causeway would rest on the top of the caissons and be 24 feet wide and 1,340 feet long extending out to the marine jetty/main wharf.* *The marine jetty/wharf would be constructed using 60x120 foot concrete caissons, separated by 60 feet to allow for the free flow of sediment and water parallel to the shoreline. The jetty/main wharf would be 120 feet wide and 720 feet long, except for the section where the floating dock ramps are attached that would be up to 240 feet wide (additional caissons would be used to support the wider jetty section). The caisson height from the seabed would vary depending on the water depth, with the tallest caissons being placed at the maximum water depth (15 feet below mean lower low water (MLLW)) to allow for a flat deck on the jetty and causeway back to shore.* *Each caisson would be separated from the next caisson by 60 feet in a direction perpendicular to the shore. The concrete deck that rests on the caissons would be well above the water surface under all tidal conditions, allowing for the free flow of water and sediment and free passage for any fish or surface wildlife between the caissons.*
List Number and Type of Response Attachments:	**RFI 165 Figure.pdf**
Date Returned to USACE:	Click here to enter text.

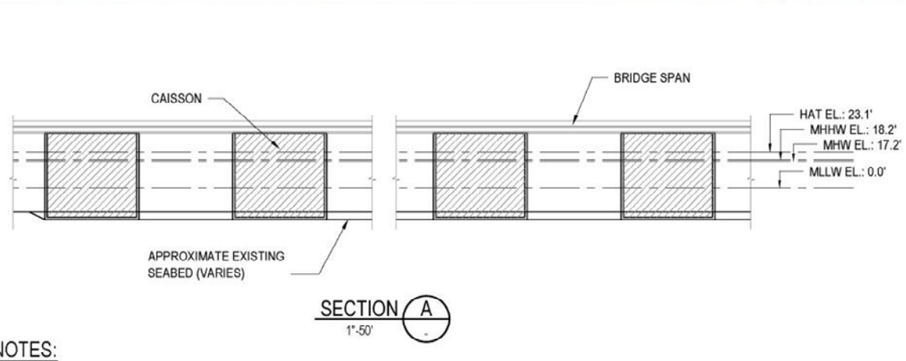
AECOM Intake Form

Date Response was Received:	4/9/2020
Received by:	AECOM
Describe any Follow-up Related to this RFI:	Click here to enter text.

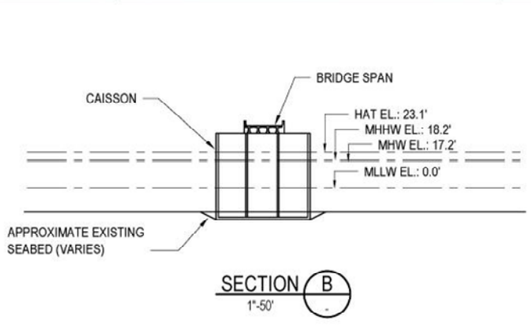


PLAN
1" : 150'

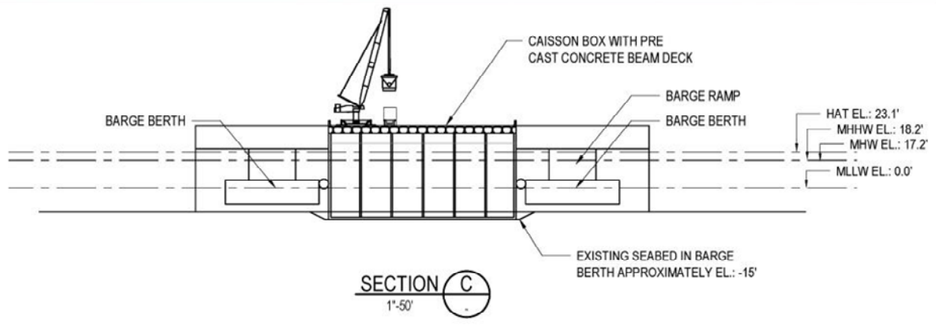
KEY PLAN
NTS



SECTION A
1"-50'



SECTION B
1"-50'



SECTION C
1"-50'

NOTES:

1. DIMENSIONS IN FEET
3. HORIZONTAL DATUM TO UTM NAD83, ALASKA STATE PLANE ZONE 5, US SURVEY FEET
4. ELEVATIONS ARE IN FEET TO MEAN LOWER LOW WATER (MLLW)
5. OFFSHORE CONTOURS DEVELOPED FROM TERRASOND BATHYMETRIC SURVEY DATED AUGUST 20 TO 27, 2017. ELEVATIONS SURVEYED TO GEODETIC DATUM (GEOID 99) AND ARE SHIFTED TO MEAN LOWER LOW WATER (MLLW) LEVEL BASED ON LIMITED FIELD MEASURED TIDAL DATA. PRELIMINARY SHIFT BETWEEN GEODETIC AND MLLW IS +8.37' (0' GEODETIC = 8.37' MLLW).
6. STOCKYARD AND TOP OF WHARF ELEVATIONS ARE NOMINAL. GRADING NOT SHOWN FOR CLARITY.

LEGENDS:

CONCRETE CAISSONS

50' 0 50' 100' 150' 200'
SCALE: 1"=50'

100' 0 100' 200' 300' 400' 500' 600'
SCALE: 1"=150'

PEBBLE MARINE INFRASTRUCTURE
CONCEPT DESIGN
AMAKDEDORI PORT SITE
MARINE TERMINAL LAYOUT – CAISSON OPTION

THE pebble PARTNERSHIP