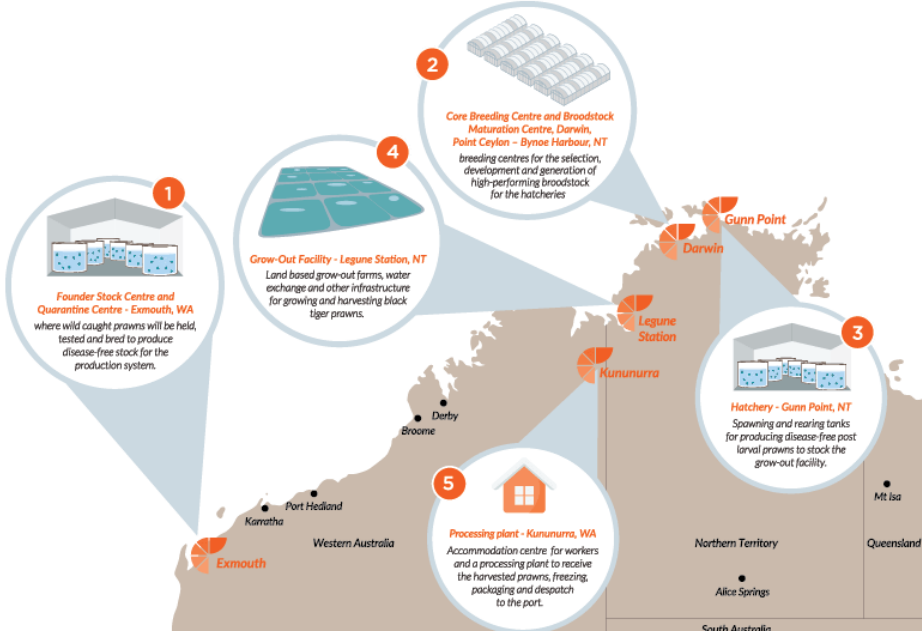
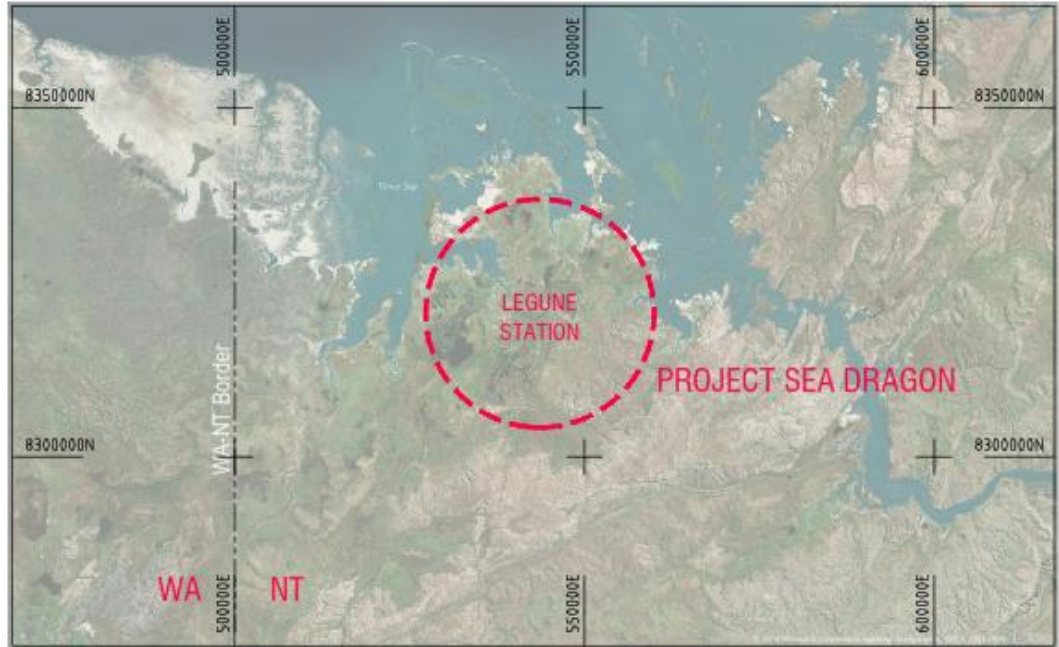


PROJECT SEA DRAGON – EXPRESSION OF INTEREST (EOI)

Package Title	Seawater Intake Pumps and Piping
Reference Number	P010
Project Overview	<p>The proposed Project Sea Dragon (PSD) is a large-scale, integrated, land-based prawn aquaculture project in northern Australia that will deliver high-quality, year-round reliable volumes for domestic and export markets. PSD will be a staged development of up to 10,000 hectares of produce ponds as well as a series of facilities across northern Australia including:</p> <ul style="list-style-type: none"> ➤ Founder Stock Centre and Quarantine Centre at Exmouth, WA; ➤ Bynoe Breeding Facility, that includes a Core Breeding Centre and a Broodstock Maturation Centre, at Bynoe Harbour, near Darwin, NT; ➤ Hatchery to be built at Gunn Point, near Darwin, NT; ➤ Grow-out Facility to be built at Legune Station, NT, approximately 100 km from the town of Kununurra, WA; and ➤ Processing facility to be built approximately 15 km north of Kununurra, WA.  <p>Seafarms has all the necessary regulatory approvals in place to build Stage 1 of the development that consists of approximately 1,120 Ha of ponds and the associated upstream and downstream facilities. Seafarms proposes to develop Stage 1 in several steps with Stage 1a (S1a) being one farm at Legune of approximately 400 Ha plus the upstream and downstream facilities at Legune and other sites. Subject to further funding, the balance of Stage 1 is targeted to be complete within 3 years of commissioning S1a and that subsequent stages 2 and beyond to the full scale of approximately 10,000 hectares would continue to be delivered in line with overall schedule of work.</p> <p>Stage 1a of Project Sea Dragon has a total construction budget of approximately \$281M excluding cost contingency and escalation. Organisations interested in responding to this request for expression of interest are encouraged to review Seafarms (ASX – SFG) Annual Report Presentation released on the ASX site 1st September 2020 and later announcements.</p> <p>The shortlisted respondents will be required to sign a Non-Disclosure Agreement (NDA) prior to receiving the Tender Documents.</p>

Package Description

This package of works is for the design, supply, monitor installation, commission, and performance test seawater intake pumps and piping at the site for the main Grow-out Facility at Legune Station in the Northern Territory. This EOI is a part of the process to select a shortlist of respondents that will become the Tenderers for this work package.



LOCALITY PLAN

The sea water intake pumps will extract water from Forsyth Creek to supply the facility with 900 megalitres per day. Forsyth Creek is tidal and license conditions limit pumping to what is notionally two off six-hour periods per day.

The pump controls will be located on the hardstand as shown in the attached sketches. The size and exact location of the onshore facility will be determined during final design phase.

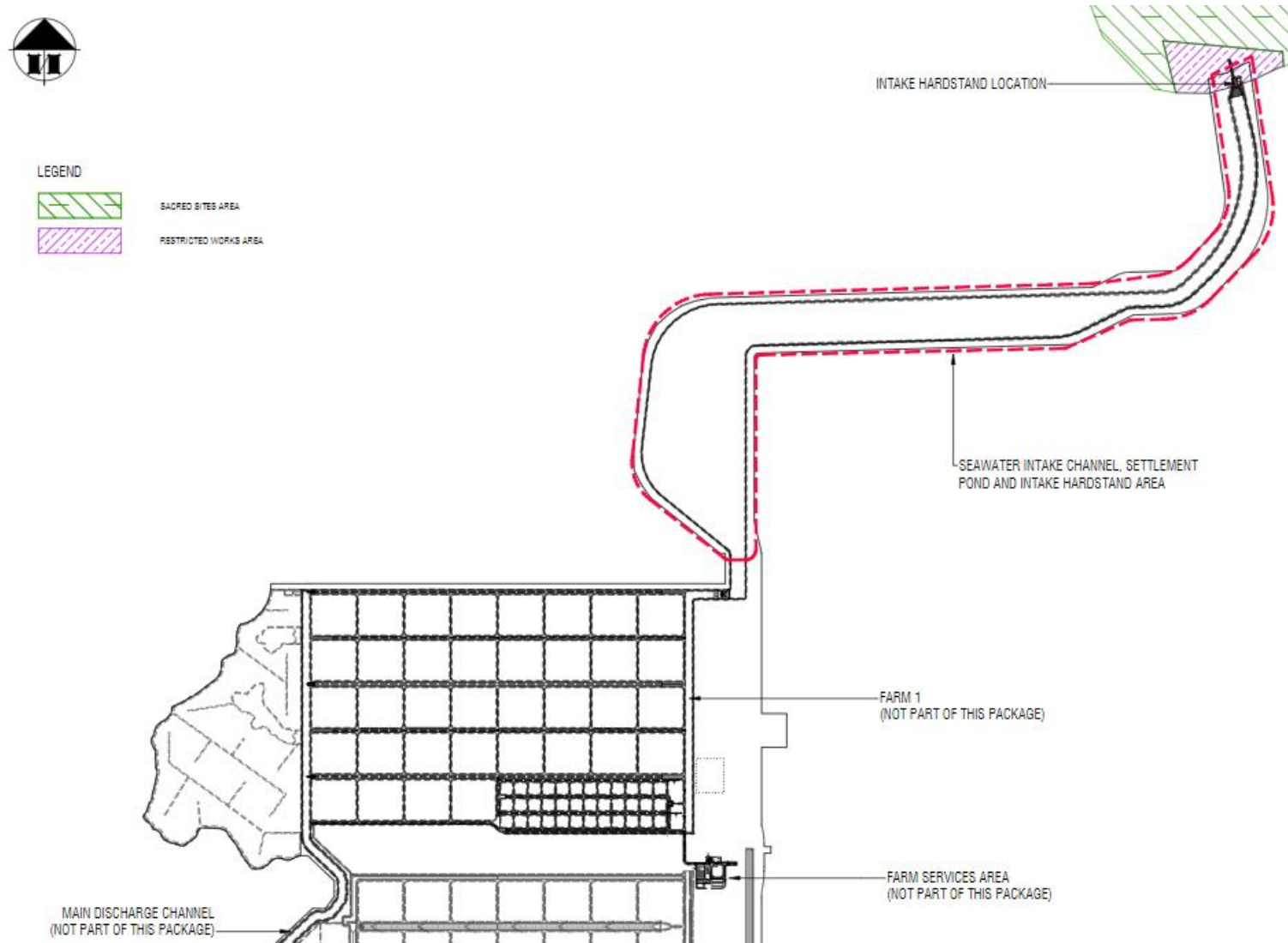


The successful tenderer will supply the pumps, motor control centres, controls, piping, all labour, equipment, consumables, and transport for staff to facilitate the works at site. The equipment will be installed by others however the successful tenderer will be required to monitor the installation to ensure it is installed in accordance with the successful tenderers written requirements. The successful tenderer will also be required to commission and performance test their system. PSD will provide onsite accommodation, messing, and office space.

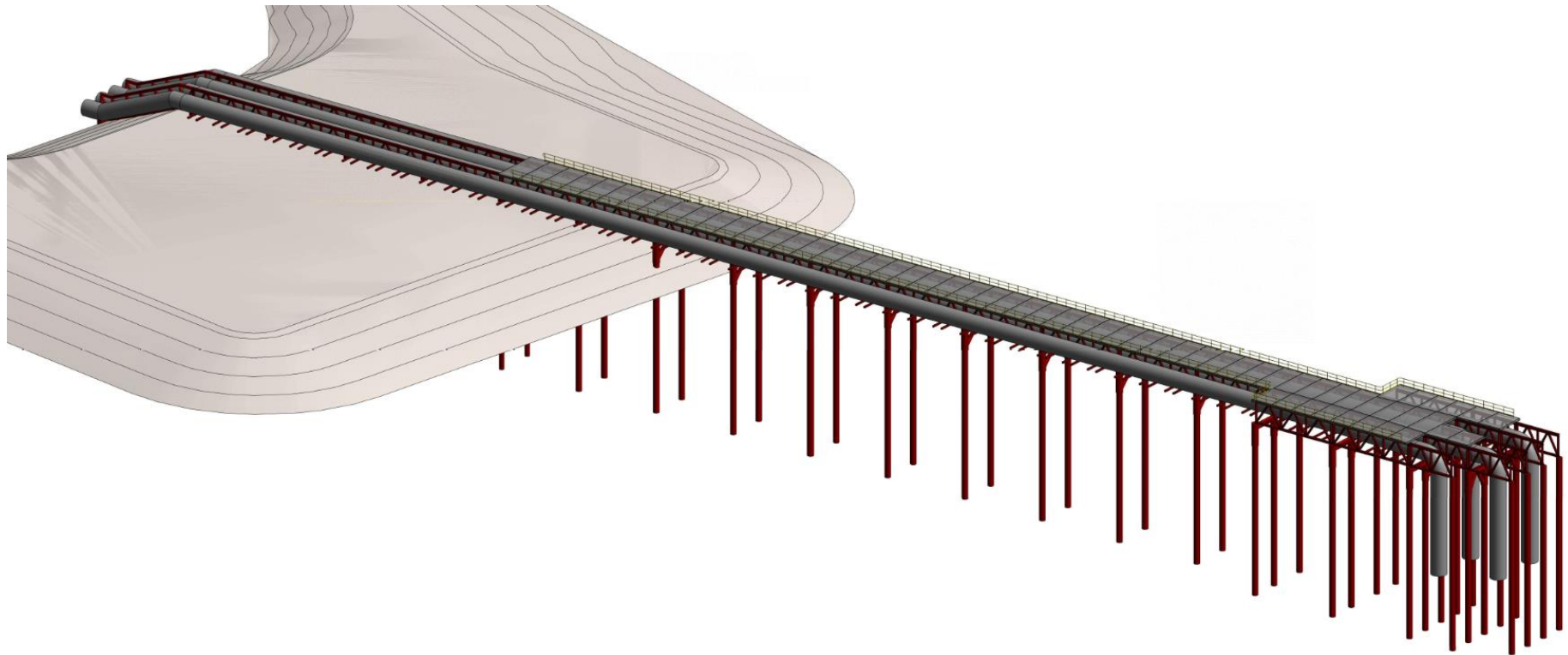
Specific parameters for the pumps are subject to final design however the current concept is for vertical axial pumps. Respondents must use the following data in providing a response.

	<ul style="list-style-type: none"> ➤ Volume of water required is 900 ML/d; ➤ Pumping is limited to “mid tide” and above herein referenced as 0.1 meters AHD and above; ➤ The intake location is approximately 14°58'32.67"S and 129°24'59.04"E; ➤ The surface level of the creek bottom is approximately -9 m (minus 9 m) AHD; ➤ The velocity of water in the creek can be up to 6 m/s; ➤ The water is saline and contains significant sediment; ➤ The Invert Level (IL) of the discharge pipe at the pump is +7.8 m AHD; ➤ The discharge pipes will run inside a jetty truss structure that has been designed to accommodate 4 off DN2100 pipes or smaller; ➤ The length of the discharge pipes is approximately 210 m; and ➤ The discharge pipes will discharge into a reservoir that has a surface water level of approximately +6.2 m AHD. Under normal operation the discharge pipe will be submerged below the surface water level of the reservoir. ➤ The number of pumps supplied, installed and commissioned will be on an n+1 basis <p>Road access to the site may be restricted, and or closed due to conditions associated with the northern Australian wet season.</p> <p>In accordance with PSD’s commitments to building local and Indigenous capacity in the region, the EOI evaluation will include a weighting for utilising local and regional businesses in the Northern Territory and the Kimberly region of Western Australia.</p> <p>Respondents to the EOI will be assessed and short listed, with short listed respondents to be invited to tender.</p> <p>PSD reserve the right to combine this package and or parts of this package with any other project package.</p>
<p>Key Information to be provided with the Respondent’s EOI</p>	<p>Safety</p> <p>The shortlisted respondents will be required to include a Covid-19 Management Plan within their tender submission that will form part of the Contractor’s WHS Management Plan.</p> <p>Accreditations</p> <p>The respondent shall have, or be able to attain prior to contract award, all required accreditations, as well as registrations needed to successfully deliver this work package.</p> <p>The respondent shall provide a copy of their Quality Management system and records of previous project performance to support their capability to delivery this work package.</p> <p>Reference Projects</p> <p>Provide project data sheets for 3 reference projects. The reference projects should be of similar size, complexity, and location.</p> <p>The data sheets shall include:</p> <ul style="list-style-type: none"> ➤ Project Name; ➤ General Project Description; ➤ Client Name and Reference Contact; ➤ Approximate Project Value; ➤ Actual Start Date; ➤ Actual Finish Date and any variations to the schedule and reasons for variations; and ➤ WHS Notifiable Incident(s)? If yes, then explain in detail as to the incident, investigation and recommendations. <p>The respondent should highlight the following:</p> <ul style="list-style-type: none"> ➤ Experience working on remote construction projects; and ➤ Experience in delivering similar projects during Northern Australia’s wet season, including access issues to/from and within the project site.

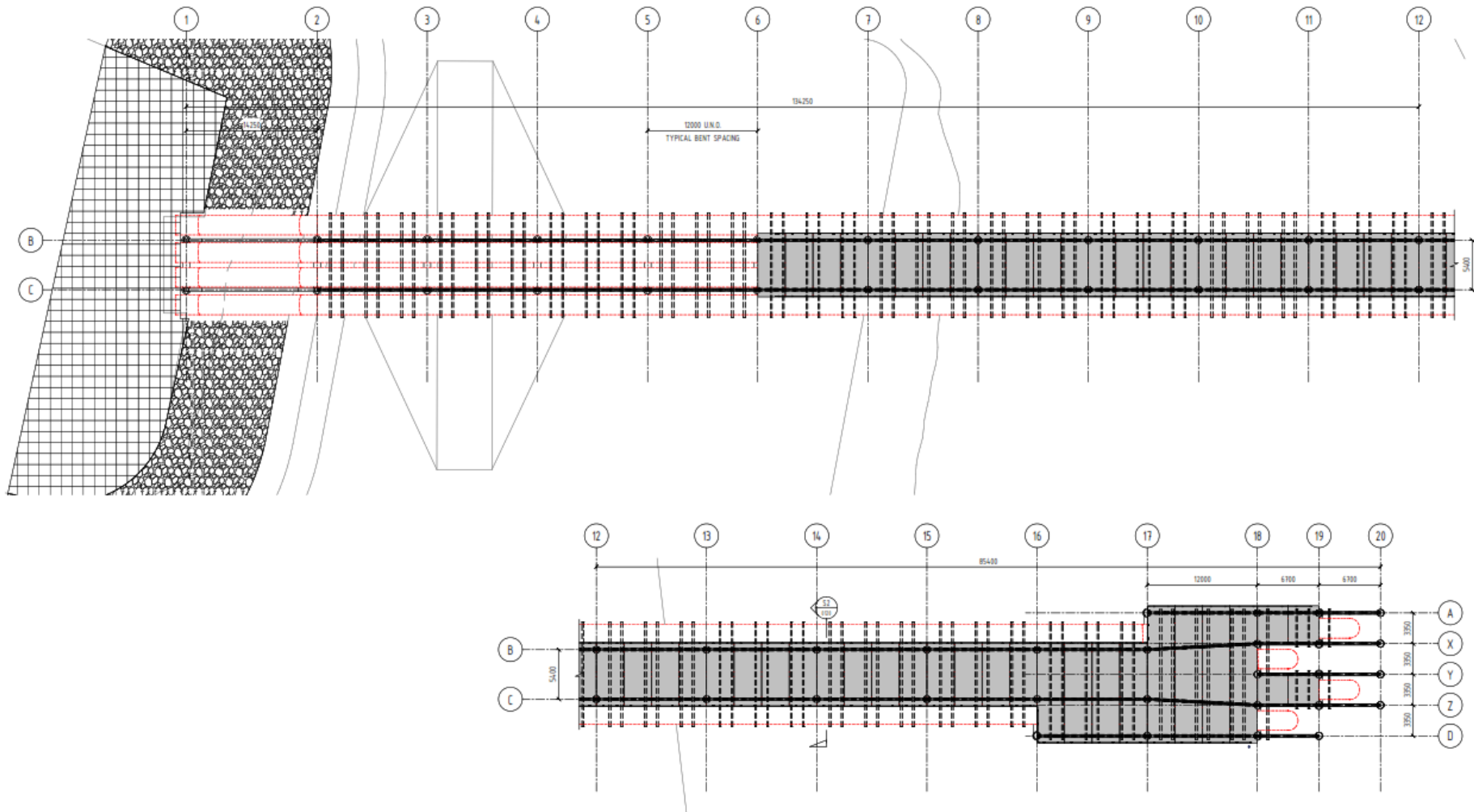
	<p>The above should be evidenced by providing references from past clients with their current contact details.</p> <p>Each project data sheet shall be no more than two A4 pages (including photos).</p>
Reference Documents	<p>The following indicative sketches are attached herein for EOI purposes:</p> <ul style="list-style-type: none"> ■ Seawater Intake Structure – Location Plan; ■ Seawater Intake Structure – 3D View; ■ Seawater Intake Structure – Plan View; ■ Seawater Intake Structure – Section View (Option A); ■ Seawater Intake Structure – Section View (Option B); ■ Seawater Intake Structure – Cross Section; and ■ Seawater Intake Structure – 3D Module View.
Key Milestones	<p>Target date for issuing Invitations to Tender (ITT) is 09 February 2021</p> <p>Target Contract Award Date is 14 April 2021</p> <p>Target Pipe Delivery Completed Date is 15 November 2021</p> <p>Target Pump Delivery Completed Date is 28 February 2022</p> <p>Target Date for Practical Completion is 15 December 2022</p>
Expression of Interest (EOI)	<p>Interested parties with the requisite experience are invited to express an interest in this work package by registering and lodging their expression of interest, complete with all key information stipulated in this document, for this work package on the NT ICN Gateway online platform prior to the closing date stated below.</p> <p>projectseadragon.icn.org.au</p> <p>Please ensure your ICN company profile is up to date before registering your expression of interest.</p>
EOI Closing Date	<p>5:00 pm (1700h) on 04 February 2021 Darwin time (ACST)</p>
Contact	<p>ICN NT Resources Team +61 8 8922 9422 resources@icnnt.org.au</p>
Project website	<p>www.seafarms.com.au</p>
Disclaimer	<p>This package description and target award date is indicative only and subject to change. It is intended to provide only a brief outline of certain works that may be required for the proposed Project Sea Dragon and should be read in conjunction with Project Sea Dragon project description on ICN Gateway.</p>



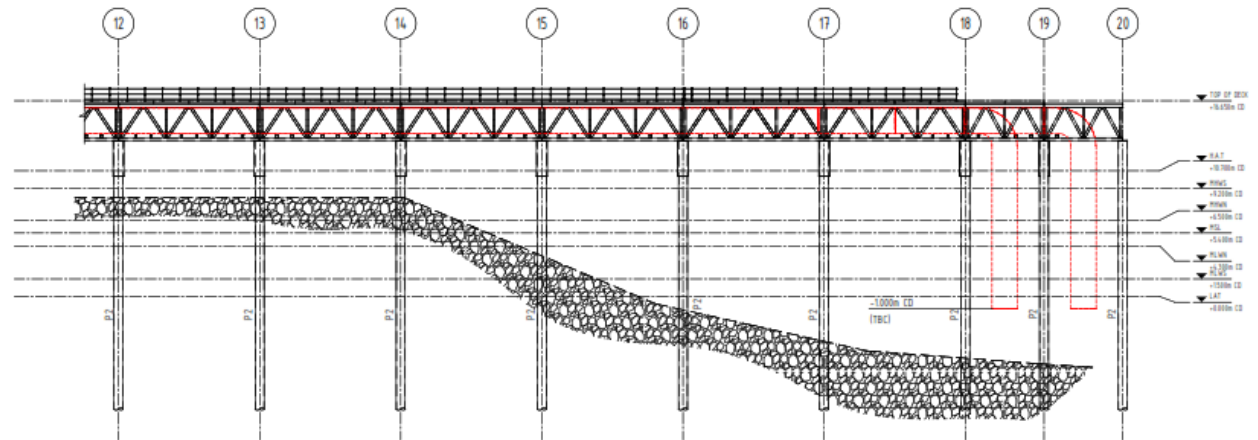
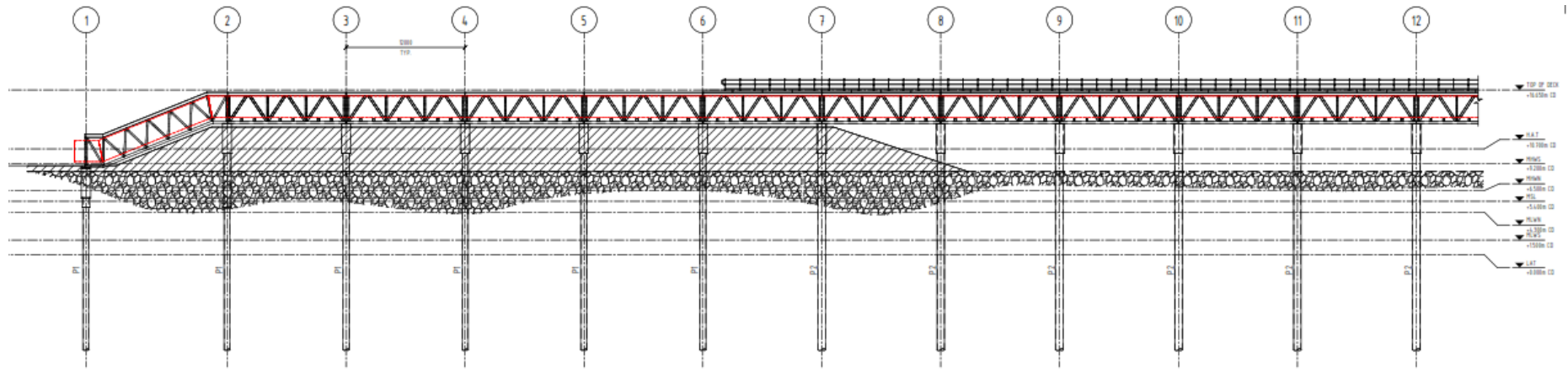
Seawater Intake Structure – Location Plan



Seawater Intake Structure – 3D View



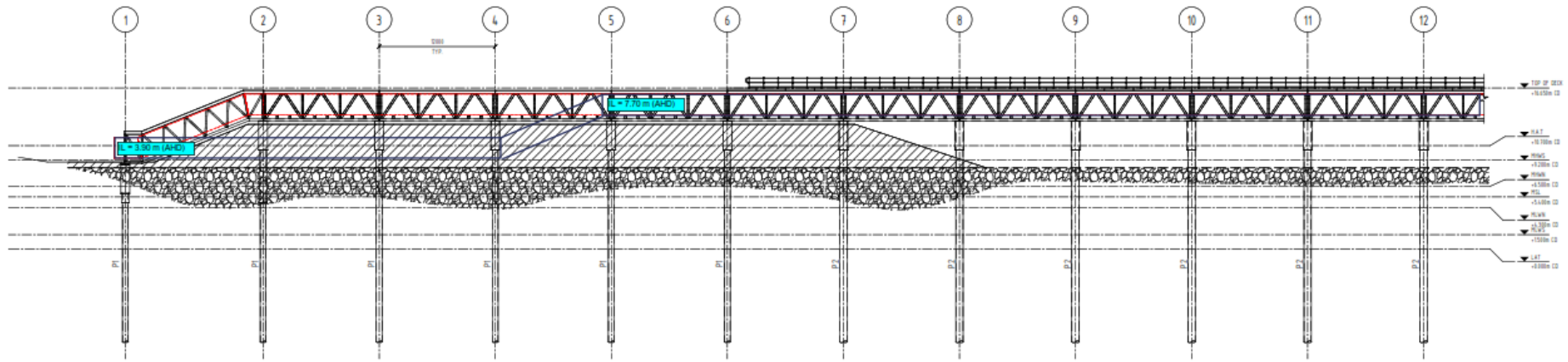
Seawater Intake Structure – Plan View



CD	AHD
+0.00m LAT1	+5.00m
+1.20m P.W.S.1	+1.70m
+1.50m P.W.S.2	+1.00m
+1.80m P.W.1	+1.30m
+2.20m P.W.S.3	+1.00m
+2.50m P.W.S.4	+3.00m
+3.00m LAT2	+3.00m

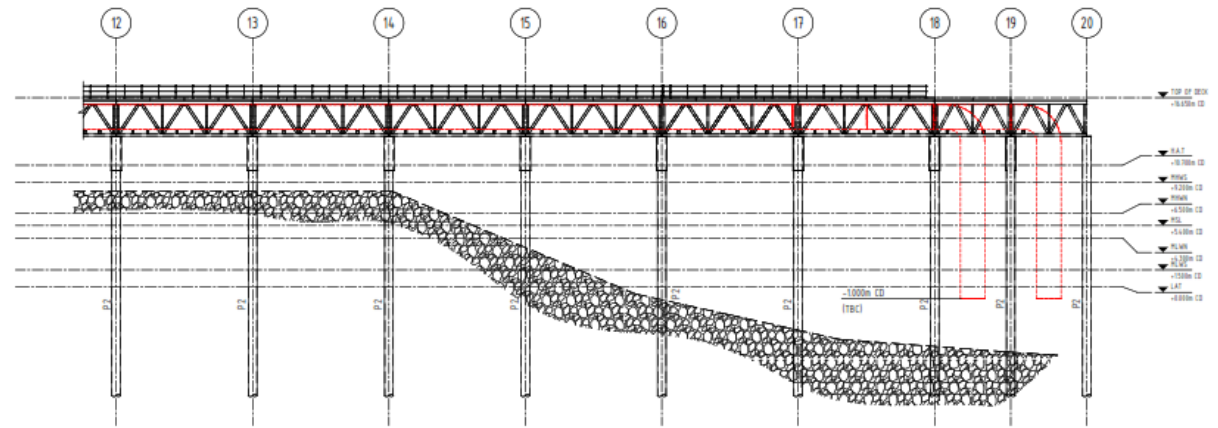
DATUM & TIDAL LEVELS

Seawater Intake Structure – Section View (option A)

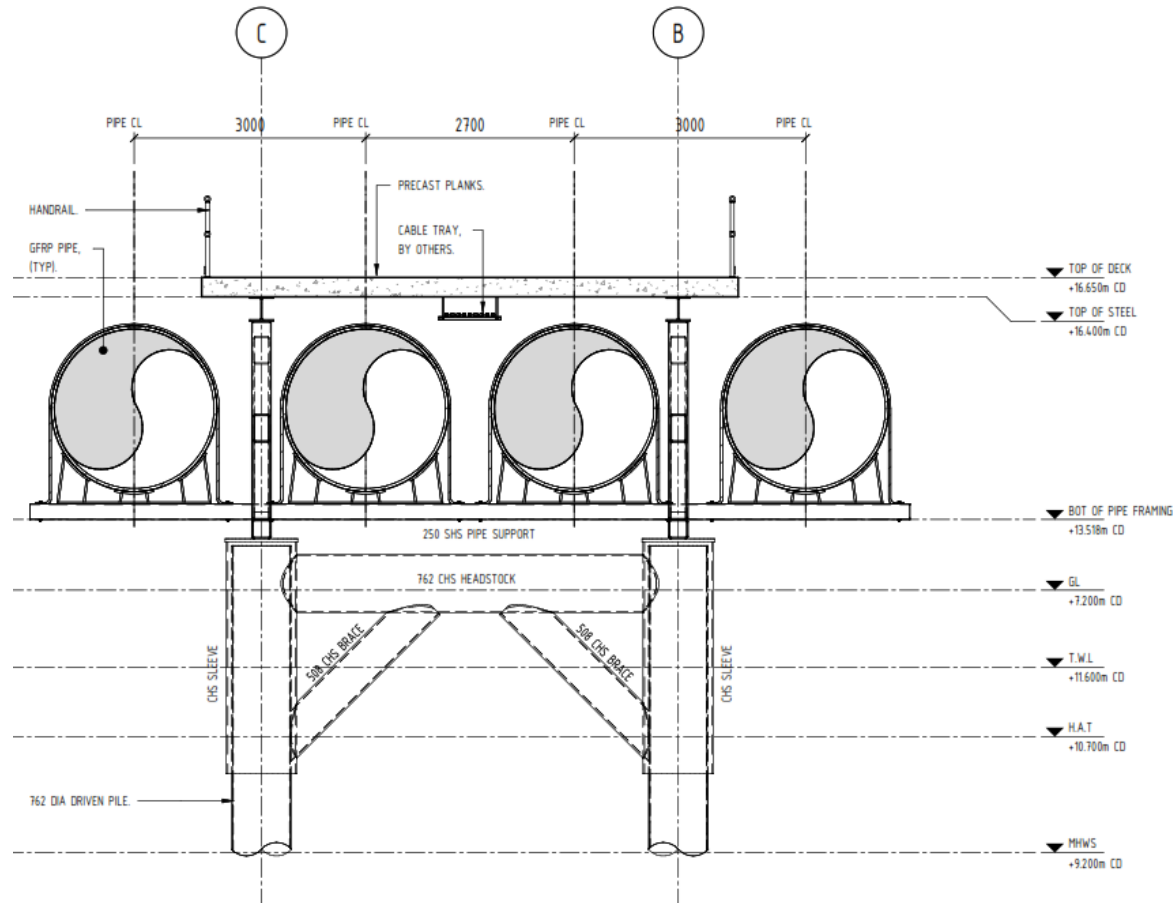


CD	AHD
+0.00m (MWT)	+0.00m
+0.10m (LAT)	+0.10m
+1.20m (HWS)	+1.10m
+1.50m (MWS)	+1.40m
+0.20m (LAT)	+0.10m
+0.10m (LAT)	+0.00m

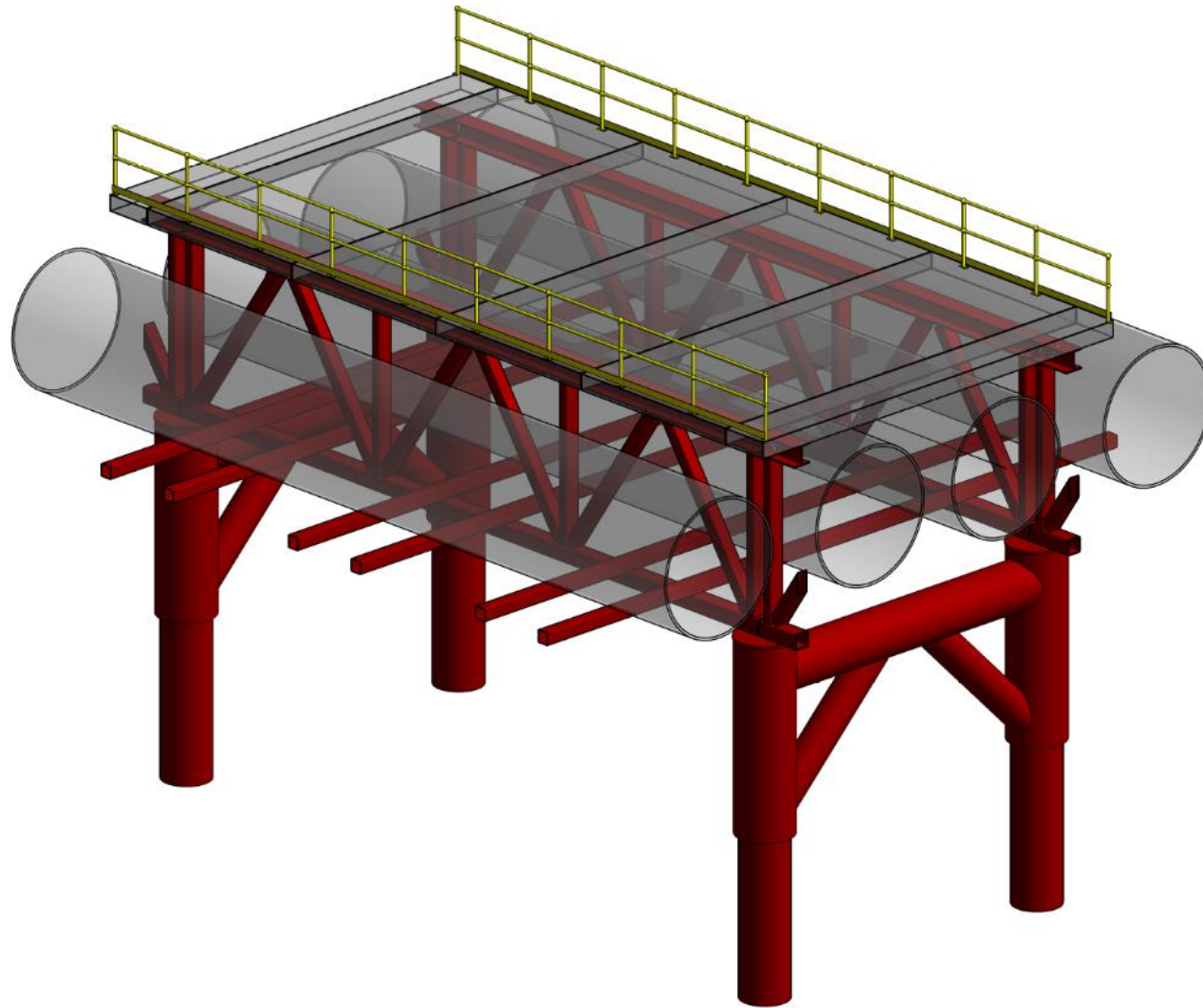
DATUM & TIDAL LEVELS



Seawater Intake Structure – Section View (Option B)



Seawater Intake Structure – Cross Section



Seawater Intake Structure – 3D Module View