



Swan and Canning Rivers Management Act 2006

PART 5

DETERMINATION OF DEVELOPMENT APPLICATION

FILE NUMBER : 2020/0012
APPLICANT : Old Perth Port Pty Ltd
APPLICANT'S ADDRESS : Attn: Bil Richardson
Old Perth Port Pty Ltd
PO Box 5600
66 St Georges Terrace
PERTH WA 6831
LANDOWNER : Swan River Trust (Reserve 48325)
LAND DESCRIPTION : Swan River (Reserve 48325) adjacent to Lot 504 (1) Barrack
Square, Perth
DEVELOPMENT : Installation of a gangway and floating jetty pontoon
VALID FORM 1 RECEIVED : 7 January 2020
DETERMINATION : **APPROVAL WITH CONDITIONS**

The application to commence development in accordance with the application received on 7 January 2020 and additional information received on 9 January 2020, 20 January 2020 and 4 February 2020, is APPROVED subject to the following conditions:

1. Approval to implement this decision is valid for two (2) years from the date of the approval. If substantial on-site works have not commenced within this period, a new approval will be required before commencing or completing the development.
2. The development is approved as outlined in drawings 7600-01 to 7600-05 (all Rev C) as engineer certified on 17/11/2019.

Prior to the commencement of works

3. The applicant shall notify the Department of Biodiversity, Conservation and Attractions in writing not less than seven (7) days prior to the commencement of works (see **Advice Note 1**).
4. Prior to the commencement of works, a Construction Environmental Management Plan shall be submitted to and approved by the Department of Biodiversity, Conservation and Attractions (see **Advice Notes 2 and 5**).
5. Prior to the commencement of works, a schedule of the external colours, finishes and materials for the proposed development, shall be submitted to and approved by the Department of Biodiversity, Conservation and Attractions (see **Advice Notes 3 and 5**).
6. Prior to the commencement of works, a Monitoring and Maintenance Plan shall be submitted to and approved by the Department of Biodiversity, Conservation and Attractions (see **Advice Note 4 and 5**).

During works

7. All works shall be implemented in accordance with the plans approved under **Conditions 4 and 5**.
8. No rubbish or any other deleterious matter shall be allowed to enter the river as a result of the works.

On completion of works

9. Upon completion of the works, all waste materials, equipment and machinery shall be removed, and the site cleaned up and reinstated to the satisfaction of the Department of Biodiversity, Conservation and Attractions.

On-going

10. The applicant shall undertake on-going monitoring and maintenance of the gangway and floating jetty pontoon in accordance with the Monitoring and Maintenance Plan approved under **Condition 6**, for the life of the development.
11. The development shall remain non-exclusive and available for use and access by the broader public. No fees are permitted to be charged for the berthing of vessels. The jetty is for short-term berthing only and not to be used as a home berth.

ADVICE TO APPLICANT

1. Notification of commencement of works and submission of documents can be emailed to rivers.planning@dbca.wa.gov.au.
2. The Construction Environmental Management Plan required under **Condition 4** shall describe how the proposed works will be managed to minimise potential environmental impacts and shall address, but not be limited to:
 - scope of works, including construction methodology;
 - site access and management;
 - management of machinery and equipment, including a refuelling procedure and spill response;
 - on-site storage and bunding of materials, equipment, chemicals and fuel;
 - protection of the river from inputs of deleterious material;
 - noise and vibration controls;
 - public access and safety;
 - hours of operation and schedule of works; and
 - complaints and incidents.

A site map showing the laydown area, vehicle entry/exit points and pedestrian management (e.g. road closures, alternative routes and public safety signage) shall be included. Emergency spill kits shall be onsite at all times and refuelling of land-based vehicles or machinery is to be undertaken outside the Swan Canning Development Control Area. In the case of pollution events, the Department of Biodiversity, Conservation and Attractions shall be contacted immediately on 9278 0981 (Duty Officer Riverpark) or 9480 9924 (Pollution Response, Marine).

3. The selection of colours, finishes and materials of the gangway and floating jetty pontoon should complement the character and landscape setting of Barrack Square and surrounding riverine environment.

4. In relation to **Condition 6**, the Monitoring and Maintenance Plan is to outline the applicant's commitments in maintaining public access and safety, waste management, fuel spill management and general maintenance of the berthing facility. The applicant should maintain current liability insurance for the berthing facility, with a copy to be provided to the Department of Biodiversity, Conservation and Attractions.
5. To allow sufficient time for the Department of Biodiversity, Conservation and Attractions to consider and approve the plans and details required under **Conditions 4 to 6**, the documents shall be submitted to the Department of Biodiversity, Conservation and Attractions at least 30 days before the expected works commencement date.
6. The applicant will need to apply for and obtain a jetty modification licence from the Department of Transport before works commencement.
7. Regarding marine safety, the applicant is advised to ensure that:
 - a. all in-water operations and activities are conducted in accordance with Western Australian Marine Safety Legislation; and
 - b. if any works are proposed on a vessel or barge, it is recommended that the applicant, or any third party contractor it engages to undertake the works, notify Department of Transport, Navigational Safety (DoT) by email to navigational.safety@transport.wa.gov.au at least 21 days before works commencement, to enable a Temporary Notice to Mariners outlining the scope of the works to be published.
8. This application and therefore approval does not include any signage. A separate permit application and approval for signage will be required from the Department of Biodiversity, Conservation and Attractions in accordance with the Swan and Canning Rivers Management Regulations 2007.



Hon Stephen Dawson MLC
MINISTER FOR ENVIRONMENT

Date: 5/8/20

DEPARTMENT OF BIODIVERSITY, CONSERVATION AND ATTRACTIONS REPORT

PROPOSAL	: Installation of a gangway and floating jetty pontoon
COST	: \$50,000
LOCATION	: Swan River (Reserve 48325) adjacent to Lot 504 (1) Barrack Square, Perth
APPLICANT	: Old Perth Port Pty Ltd
LANDOWNER	: Swan River Trust (Reserve 48325)
LOCAL GOVERNMENT	: City of Perth
MRS CLASSIFICATION	: Public Purposes – Special Use
DECISION TYPE	: Part 5, <i>Swan and Canning Rivers Management Act 2006</i> – Ministerial Determination
ATTACHMENTS	: 1. Location plan (2 pages) 2. Proposed plans (5 pages) 3. Existing riverbed lease and licensed mooring area (1 page)
RECOMMENDATION	: APPROVAL WITH CONDITIONS

REPORT

1.0 INTRODUCTION

- 1.1 The Department of Biodiversity, Conservation and Attractions (DBCA) has received an application from Old Perth Port Pty Ltd (OPP) proposing to install a gangway and floating jetty pontoon on the Swan River (Reserve 48325) adjacent to Lot 504 (1) Barrack Square, Perth (see **Attachment 1**). The subject site is reserved for 'Public Purposes – Special Use' under the Metropolitan Region Scheme.
- 1.2 The proposed development is to occur on a lot completely within the Swan Canning Development Control Area and therefore requires an approval from the Minister for Environment in accordance with Part 5 of the *Swan and Canning Rivers Management Act 2006* (SCRM Act).
- 1.3 The Director General of DBCA has prepared this report in accordance with section 76 of the SCRM Act.

2.0 CONSULTATION

City of Perth

- 2.1 The City of Perth (the City) has assessed the application and advised that it has no objections to the proposal. No further recommendations were provided.

Department of Planning, Lands and Heritage

- 2.2 The Department of Planning, Lands and Heritage (DPLH) has reviewed the application and advised that the proposed structures are located within a Registered Site of Aboriginal Significance (ID 3536 Swan River).
- 2.3 DPLH notes that the proposed jetty structures will be attached to the existing jetty infrastructure, with no riverbed disturbance works proposed (i.e. no piling required). Accordingly, no approvals under the *Aboriginal Heritage Act 1972* are required.
- 2.4 DPLH, Heritage Council has also assessed the application with respect to potential cultural impacts to Barrack Square, which is listed on the State Register of Heritage Places and is protected under the *Heritage Act 2018*.
- 2.5 DPLH, Heritage Council advises that the application is supported. It notes that the proposed development is intended to create a new ferry stop to provide a safe drop off and pick up point for passengers to Barrack Square and the Swan River, and is anticipated to create a positive impact on the integrity, social and historic values of Barrack Square.

Department of Transport

- 2.6 The Department of Transport (DoT), Navigational Safety advised that it has no objections to the proposal, subject to the following recommendation:
 - All on-water operations and activities must be conducted in accordance with the relevant marine legislative provisions.
- 2.7 DoT, Maritime Planning advised that it has no objections to the proposed development. The proposed jetty designs have been signed and certified by an experienced maritime engineer to confirm compliance with AS3962-2001 *Guidelines for Design of Marinas* and have subsequently been approved by DoT.

DevelopmentWA

- 2.8 DevelopmentWA advised that a development approval under the *Metropolitan Redevelopment Authority Act 2011* will also be required for the proposed development. No further recommendations were provided.

3.0 PUBLIC SUBMISSIONS

- 3.1 In accordance with the requirements of Part 5 of the SCRM Act, a copy of the draft report and proposed recommendation was provided to the applicant and referral agencies. A copy was also published on DBCA's website for a period of 14 days between 8 June 2020 and 22 June 2020.
- 3.2 Two (2) submissions were received from DPLH to advise that it has no additional comments to provide.

4.0 RELEVANT POLICIES AND PLANS

- ◆ State Planning Policy 2.10 – *Swan-Canning River System* (SPP 2.10)

- ◆ Corporate Policy Statement No. 42 – *Planning for Land Use, Development and Permitting Affecting the Swan Canning Development Control Area (Policy 42)*
- ◆ Corporate Policy Statement No. 44 – *Planning for Jetties in the Swan Canning Development Control Area (Policy 44)*

5.0 ENVIRONMENTAL AND PLANNING CONSIDERATIONS

- ◆ Environmental Protection
- ◆ Jetty Design
- ◆ Heritage
- ◆ Public Access and Safety

6.0 BACKGROUND

- 6.1 Barrack Square was established in 1905-07, by reclamation of land from the Swan River to form part of the foreshore parkland. Currently the area consists of a pedestrian plaza, ferry terminal, belltower, cafe, restaurants, bars, and retail offices and is located to the east of Elizabeth Quay. An 18-storey hotel is currently under construction on the north-eastern portion of Barrack Square.
- 6.2 The commercial development on the eastern portion of Barrack Square is owned by OPP and consists of restaurants/bars, café and retail/tourism booking offices. A portion of the development is over water.
- 6.3 The current application proposes to install a metal gangway (10.5m x 1.2m) and floating jetty pontoon (17.98m x 2.5m), consisting of an aluminium frame and fibre reinforced plastic decking, on the eastern side of the existing jetty at Barrack Square (see **Attachment 2**). The floating jetty pontoon will be attached (via clamps) to the piles of the existing jetty, with the deck of the proposed floating jetty pontoon to be approximately 1m below the deck of the existing jetty. No additional piles are proposed to support the new jetty structure (i.e. no riverbed disturbance works).
- 6.4 The proposed jetty structure is intended to be used as a ferry stop for the Little Ferry Company to drop off and pick up passengers at Barrack Square. OPP advised that at this stage, the ferry stop is proposed to be used by the Little Ferry Company 6-8 times a day, with each stop to be approximately 10-15 minutes. The Little Ferry Company operates cruises on the Swan River that last about 2-2.5 hours.
- 6.5 The proposed jetty pontoon is not intended to be used as a home berth for any vessels. When the jetty structure is not in use as a ferry stop, it will be available for use by the public as a short-term drop off and pick up point for small vessel/craft.
- 6.6 The existing jetty (Jetty 1) is used for the short-term berthing of vessels, however access for smaller vessel/craft has been difficult due to the height of the jetty.
- 6.7 The new jetty pontoon is intended to improve the safe berthing of small vessels and craft. It is expected that the new berthing facility will enhance public access to the river, Barrack Square, and nearby areas (e.g. Elizabeth Quay and Perth City) and will complement the existing ferry terminal.

7.0 DISCUSSION

Environmental Protection

- 7.1 Policy 42 aims to ensure that land use and development on and adjacent to the river system maintains and enhances the quality and amenity of the river environment. Installation of the jetty extension should be carefully undertaken to prevent detrimental impacts to the river and Barrack Square.
- 7.2 To ensure that all potential environmental impacts are identified and managed, a Construction Environmental Management Plan (CEMP) should be required as a condition of approval and include details of machinery and equipment management and access (including refuelling), public access and safety, construction methodology, storage of materials and equipment, spill response and waste management.

Jetty Design

- 7.3 Policy 44 recognises that appropriately designed and located commercial and community boating facilities, such as jetties and boat ramps, form an integral part of the river system setting and are an important recreational and tourist resource. Policy 44 also seeks to ensure that the location of boating infrastructure does not interfere with vessel navigation.
- 7.4 DoT standard advice to address navigational safety, such as the requirement to ensure all on-water operations and activities are conducted in accordance with relevant marine legislation and a temporary notice to mariners is organised, will be included on the approval.
- 7.5 DoT Maritime Planning has advised that the jetty designs/drawings have been certified by a qualified and practising marine engineering to comply with AS3962-2001 *Guidelines for Design of Marinas* and subsequently approved by DoT.
- 7.6 The proposed jetty pontoon structure is located within OPP's licenced mooring area; however, it is outside OPP's riverbed lease area (see **Attachment 3**).
- 7.7 Given that the proposed jetty structure is also intended for public access and use, as opposed to private or exclusive use purposes, variation to OPP's River reserve lease will not be required. The jetty berth/s will not be subleased or reserved for private or commercial use.
- 7.8 It is expected that OPP will apply for, and obtain, a jetty modification licence from DoT to incorporate the new jetty structure.
- 7.9 To ensure that the new jetty structure is regularly managed and maintained (e.g. litter, fuel spill management and general maintenance), a maintenance and monitoring plan (MMP) will be required as a condition of approval.
- 7.10 Once constructed, the berthing facility is anticipated to enhance boating access to the river at Barrack Square.

Heritage

- 7.11 Policy 42 states that places of cultural and heritage significance, both Aboriginal and European, and of natural heritage are to be conserved.
- 7.12 Barrack Square is listed on the Stage Register of Heritage Places. The site is significant for its association with river transport since first European settlement in 1829, now functioning predominately as a ferry termination with five main jetties.
- 7.13 A condition of approval should require OPP to provide a schedule of external colours, materials and finishes for the proposed gangway and floating pontoon structure. It is recommended that colours, materials and finishes that complement the surrounding river environment and existing facilities are used.

Public Access and Safety

- 7.14 SPP 2.10 states that public access to the river and foreshore should be maintained while protecting the river. It is important that development over the river does not impede or restrict public access.
- 7.15 Public access through Barrack Square during the construction works, including during delivery of equipment and materials, should be maintained wherever possible and prevented only for safety reasons.
- 7.16 The applicant can be advised to provide details of site access arrangement and maintenance of access along the pedestrian pathways within the CEMP.

8.0 SWAN RIVER TRUST

- 8.1 In accordance with section 75(3A) of the SCRM Act, the Swan River Trust considered DBCA's draft report and resolved on 8 May 2020 to support the application subject to the recommended conditions.

9.0 CONCLUSION

- 9.1 The proposed development is not considered to be excessive in scale or bulk and is considered to be a minor extension to the existing jetty.
- 9.2 The proposed development will improve safe short-term berthing of small vessels and craft and enhance access to and from the river at Barrack Square. With the recent commercial development in the immediate locality (e.g. Elizabeth Quay and new hotels), improved boating access for the public is supported.
- 9.3 Potential environmental impacts from the works can be addressed through the preparation and approval of a CEMP, which would be required as a condition of approval.
- 9.4 For these reasons, the proposal is recommended for approval, subject to conditions and advice.

10.0 RECOMMENDATION – APPROVAL WITH CONDITIONS

That the Director General of DBCA advises the Minister for Environment that OPP's proposal to install a gangway and floating jetty pontoon on the Swan River (Reserve 48325) adjacent to Lot 504 (1) Barrack Square, Perth, as described in the application received on 7 January 2020 and additional information received on 9 January 2020, 20 January 2020 and 4 February 2020, be approved, subject to the following conditions:

1. Approval to implement this decision is valid for two (2) years from the date of the approval. If substantial on-site works have not commenced within this period, a new approval will be required before commencing or completing the development.
2. The development is approved as outlined in drawings 7600-01 to 7600-05 (all Rev C) as engineer certified on 17/11/2019.

Prior to the commencement of works

3. The applicant shall notify the Department of Biodiversity, Conservation and Attractions in writing not less than seven (7) days prior to the commencement of works (see **Advice Note 1**).
4. Prior to the commencement of works, a Construction Environmental Management Plan shall be submitted to and approved by the Department of Biodiversity, Conservation and Attractions (see **Advice Notes 2 and 5**).
5. Prior to the commencement of works, a schedule of the external colours, finishes and materials for the proposed development, shall be submitted to and approved by the Department of Biodiversity, Conservation and Attractions (see **Advice Notes 3 and 5**).
6. Prior to the commencement of works, a Monitoring and Maintenance Plan shall be submitted to and approved by the Department of Biodiversity, Conservation and Attractions (see **Advice Note 4 and 5**).

During works

7. All works shall be implemented in accordance with the plans approved under **Conditions 4 and 5**.
8. No rubbish or any other deleterious matter shall be allowed to enter the river as a result of the works.

On completion of works

9. Upon completion of the works, all waste materials, equipment and machinery shall be removed, and the site cleaned up and reinstated to the satisfaction of the Department of Biodiversity, Conservation and Attractions.

On-going

10. The applicant shall undertake on-going monitoring and maintenance of the gangway and floating jetty pontoon in accordance with the Monitoring and Maintenance Plan approved under **Condition 6**, for the life of the development.
11. The development shall remain non-exclusive and available for use and access by the broader public. No fees are permitted to be charged for the berthing of vessels. The jetty is for short-term berthing only and not to be used as a home berth.

ADVICE TO APPLICANT

1. Notification of commencement of works and submission of documents can be emailed to rivers.planning@dbca.wa.gov.au.
2. The Construction Environmental Management Plan required under **Condition 4** shall describe how the proposed works will be managed to minimise potential environmental impacts and shall address, but not be limited to:
 - a. scope of works, including construction methodology;
 - b. site access and management;
 - c. management of machinery and equipment, including a refuelling procedure and spill response;
 - d. on-site storage and bunding of materials, equipment, chemicals and fuel;
 - e. protection of the river from inputs of deleterious material;
 - f. noise and vibration controls;
 - g. public access and safety;
 - h. hours of operation and schedule of works; and
 - i. complaints and incidents.

A site map showing the laydown area, vehicle entry/exit points and pedestrian management (e.g. road closures, alternative routes and public safety signage) shall be included. Emergency spill kits shall be onsite at all times and refuelling of land-based vehicles or machinery is to be undertaken outside the Swan Canning Development Control Area. In the case of pollution events, the Department of Biodiversity, Conservation and Attractions shall be contacted immediately on 9278 0981 (Duty Officer Riverpark) or 9480 9924 (Pollution Response, Marine).

3. The selection of colours, finishes and materials of the gangway and floating jetty pontoon should complement the character and landscape setting of Barrack Square and surrounding riverine environment.
4. In relation to **Condition 6**, the Monitoring and Maintenance Plan is to outline the applicant's commitments in maintaining public access and safety, waste management, fuel spill management and general maintenance of the berthing facility. The applicant should maintain current liability insurance for the berthing facility, with a copy to be provided to the Department of Biodiversity, Conservation and Attractions.
5. To allow sufficient time for the Department of Biodiversity, Conservation and Attractions to consider and approve the plans and details required under **Conditions 4 to 6**, the documents shall be submitted to the Department of Biodiversity, Conservation and Attractions at least 30 days before the expected works commencement date.

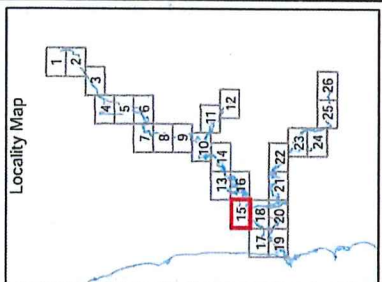
6. The applicant will need to apply for and obtain a jetty modification licence from the Department of Transport before works commencement.
7. Regarding marine safety, the applicant is advised to ensure that:
 - a. all in-water operations and activities are conducted in accordance with Western Australian Marine Safety Legislation; and
 - b. if any works are proposed on a vessel or barge, it is recommended that the applicant, or any third party contractor it engages to undertake the works, notify Department of Transport, Navigational Safety (DoT) by email to navigational.safety@transport.wa.gov.au at least 21 days before works commencement, to enable a Temporary Notice to Mariners outlining the scope of the works to be published.
8. This application and therefore approval does not include any signage. A separate permit application and approval for signage will be required from the Department of Biodiversity, Conservation and Attractions in accordance with the Swan and Canning Rivers Management Regulations 2007.

FINAL REPORT ENDORSED

Signed:  Date: 22/7/20
Mark Webb
Director General

Attachment 1

Landgate
 DEPOSITED PLAN
 47465
 SHEET 16 OF 27
 VERSION 6



Legend

- Swan River Trust Riverpark Boundary (May 2016)
- Swan River Trust Development Control Area (May 2016)
- Local Government Authority Boundary (2016)
- Cadastre (January 2016)
- Parks and Recreation Reservation (2016)
- Railway (2016)
- Waterways (2016)

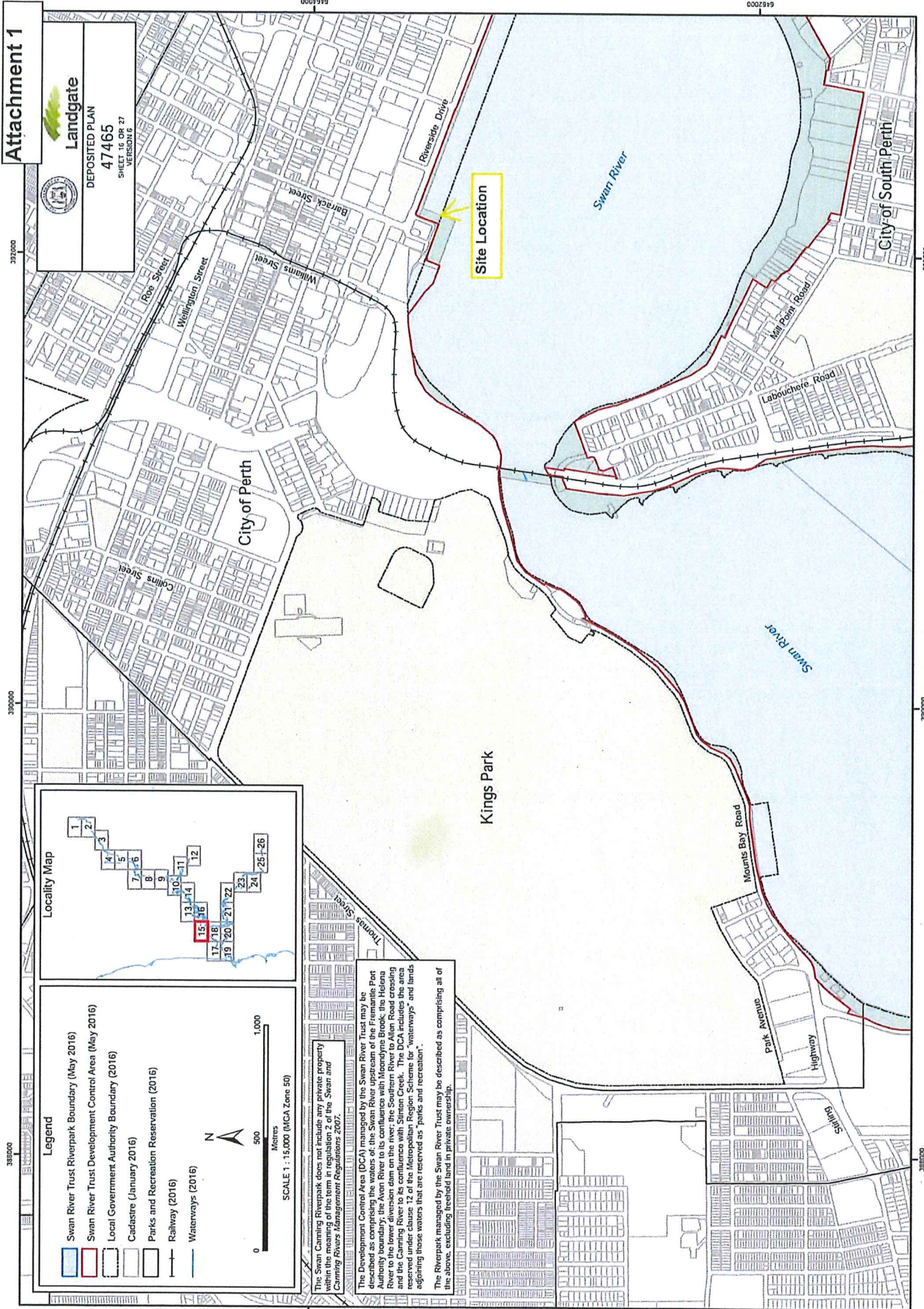
SCALE 1 : 15,000 (MCA Zone 50)

0 500 1,000 Metres

The Swan Canning Riverpark does not include any private property within the meaning of the term in regulation 2 of the *Swan and Canning Rivers Management Regulations 2007*.

The Development Control Area (DCA) managed by the Swan River Trust may be described as comprising the waters of the Swan River upstream of the Fremantle Port Authority boundary; the Avon River to its confluence with Victoria Brook; the Helena River to its confluence with the Swan River; the Swan River to its confluence with the Canning River to its confluence with Slacks Creek; The DCA reserved under clause 12 of the Metropolitan Region Scheme for "waterways" and lands adjoining those waters that are reserved as "parks and recreation".

The Riverpark managed by the Swan River Trust may be described as comprising all of the above, excluding freehold land in private ownership.



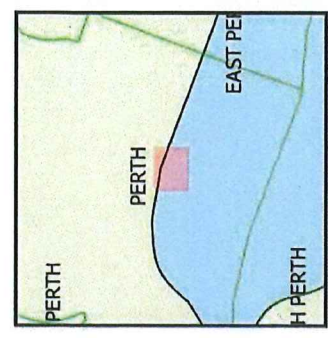
Legend

- Swan River - Development Control Area (GDD)
- Swan River Leases
- Perth Central Cadastre (Land Parcels)



1:1,278 (A4)
 0 10 20 30 m

Projection: MGA Zone 50
 Datum: GDA94

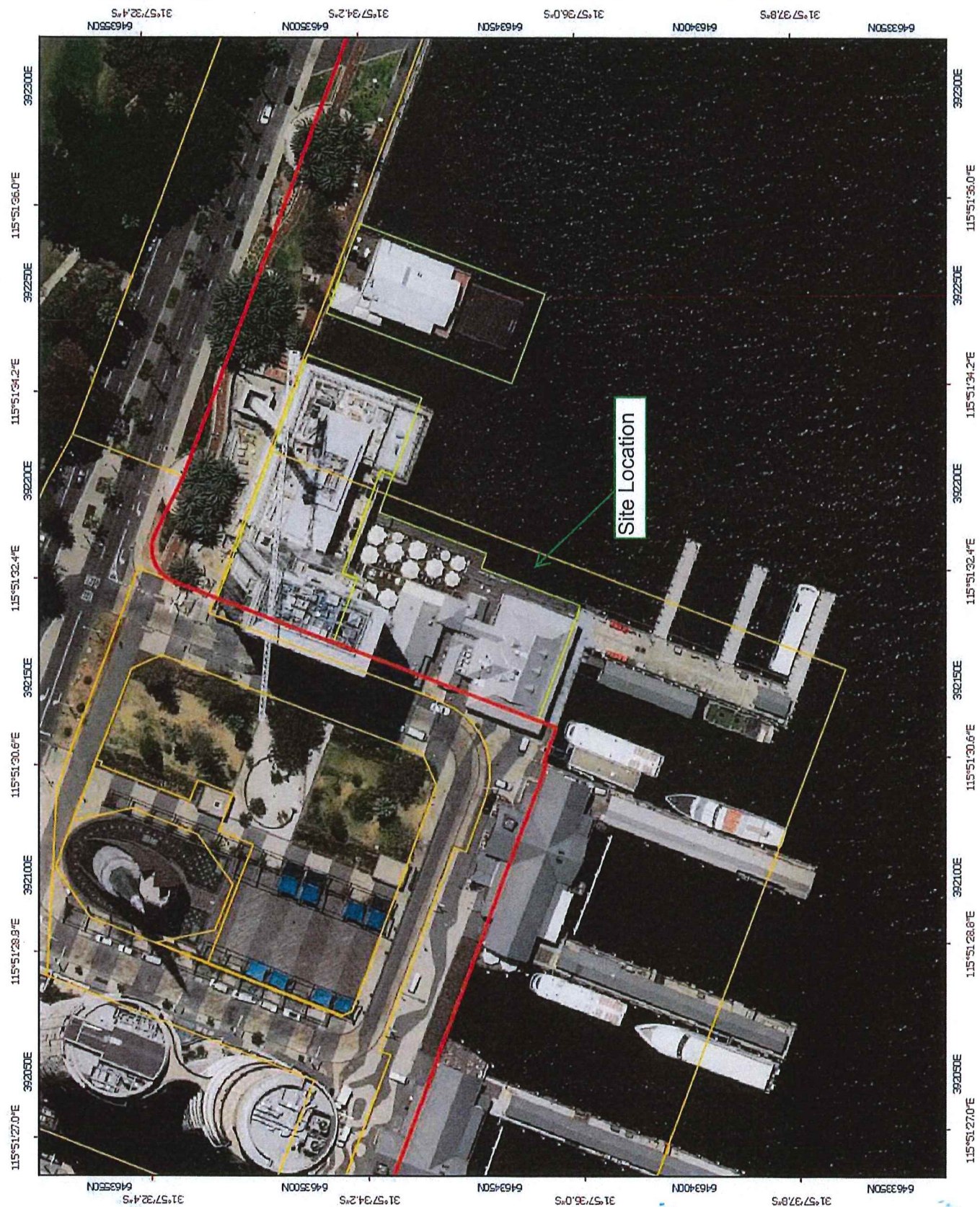


Produced by DECA,
 Department of Biodiversity,
 Conservation and Attractions



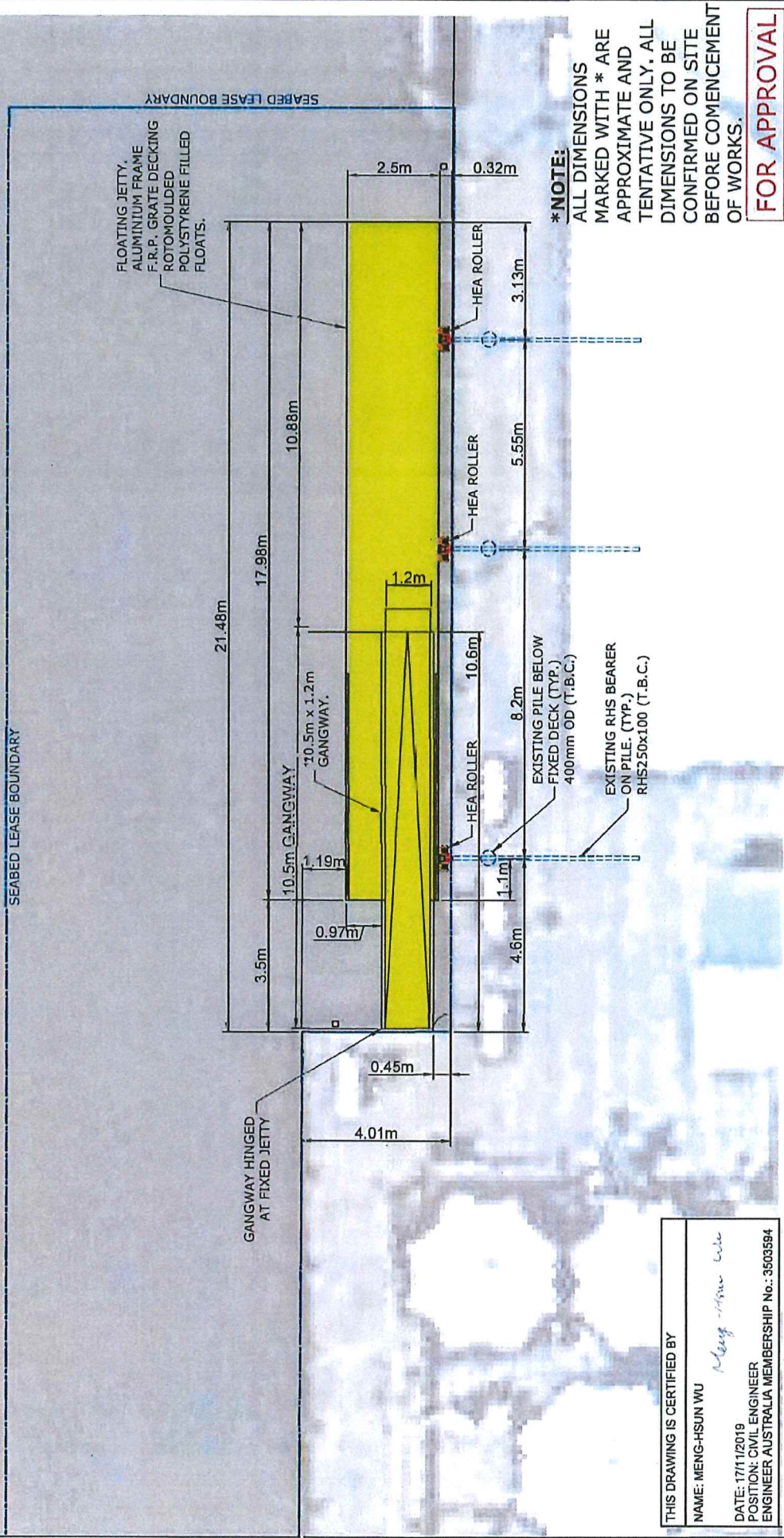
Job Ref: 01

Produced at 01:24 PM on April 21, 2020



The Department of Biodiversity, Conservation and Attractions does not guarantee that this map is without flaw of any kind and disclaims all liability for any errors, less or other consequences which may arise from relying on any information depicted. Roads and tracks on land managed by DBCA may contain unmarked hazards and their surface condition is variable. Exercise caution and drive to conditions on all roads.

Attachment 2

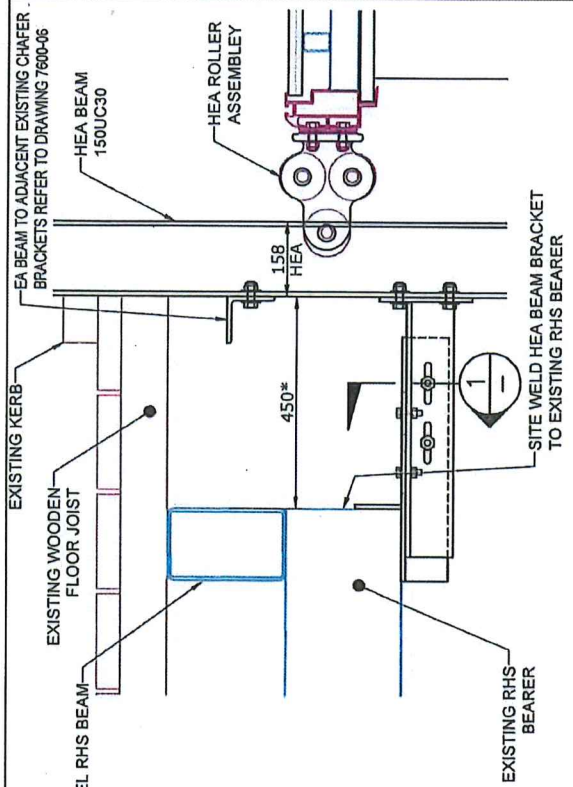


***NOTE:**
 ALL DIMENSIONS MARKED WITH * ARE APPROXIMATE AND TENTATIVE ONLY. ALL DIMENSIONS TO BE CONFIRMED ON SITE BEFORE COMENCEMENT OF WORKS.

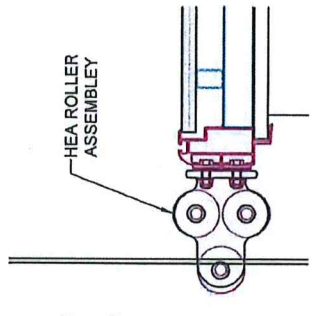
FOR APPROVAL
 Designed According to AS3962-2001

THIS DRAWING IS CERTIFIED BY
 NAME: MENG-HSUN WU
 DATE: 17/11/2019
 POSITION: CIVIL ENGINEER
 ENGINEER AUSTRALIA MEMBERSHIP No.: 3503594

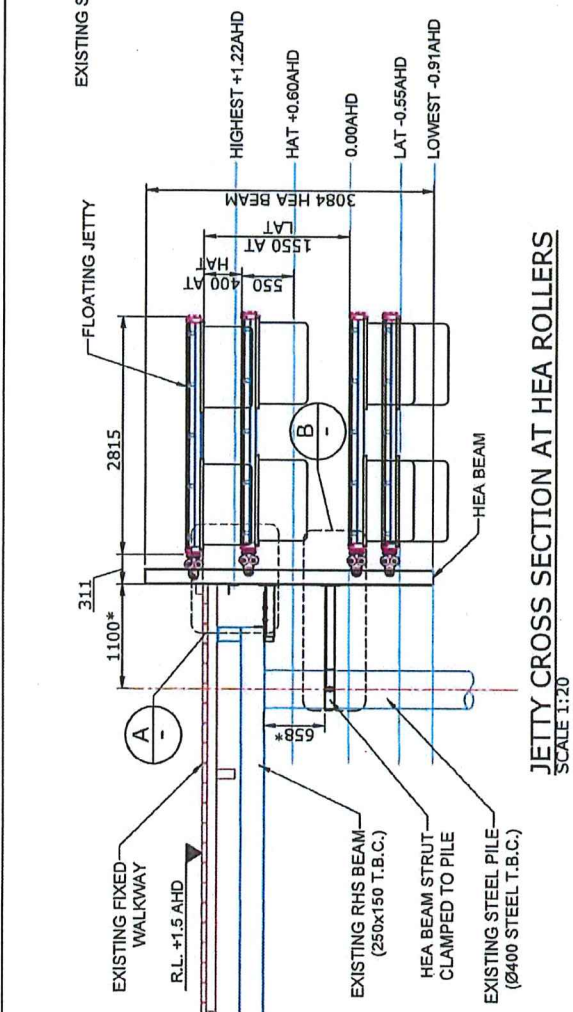
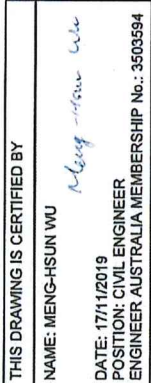
Global Trade Sales 6 Block Place, Ocean Reef WA 6027 T: +61 418 951 318 Designed according to AS 3962-2001 & AS 2159 CERTIFICATION: Meng Hsun Wu Civil Engineer No. 3503594 Checked: Approved: Signed:		SCALE @ A3 1:100 ALLIANCE No FORMAT A3	OLD PERTH PORT Addition of Floating Walkway Barrack Street GENERAL LAYOUT DRAWING NUMBER: 7600-01 DATE:	SHEET: C REV:
16/11/2019	DG	C	FOR APPROVAL	
26/10/2019	DG	B	FOR APPROVAL	
22/10/2019	DG	A	FOR APPROVAL	
DATE	APP.	REV.	DESCRIPTION	



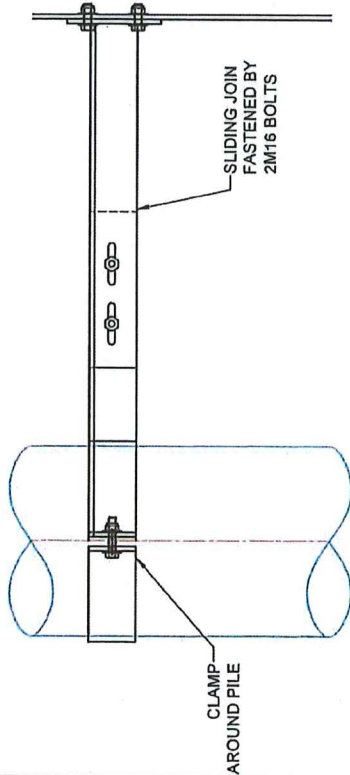
DETAIL A
SCALE 1:10



DETAIL B
SCALE 1:10



JETTY CROSS SECTION AT HEA ROLLERS
SCALE 1:20



SECTION 1
SCALE 1:10

***NOTE:**
ALL DIMENSIONS MARKED WITH * ARE APPROXIMATE AND TENTATIVE ONLY. ALL DIMENSIONS TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORKS.

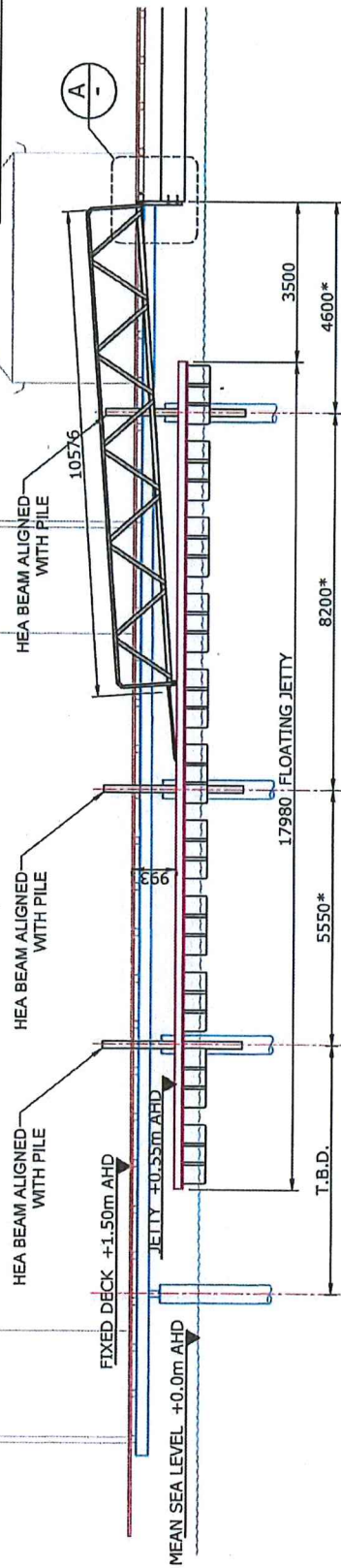
FOR APPROVAL

THIS DRAWING IS CERTIFIED BY
NAME: MENG-HSUN WU
DATE: 17/11/2019
POSITION: CIVIL ENGINEER
ENGINEER AUSTRALIA MEMBERSHIP No.: 3503594

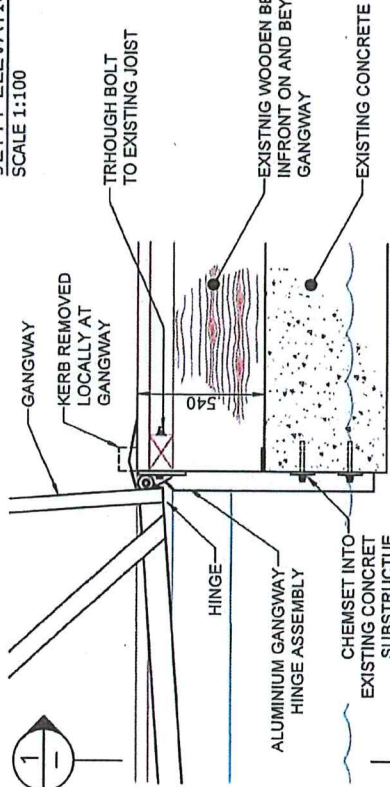
Global Trade Sales 6 Block Place, Ocean Reef WA 6027 T: +61 418 951 318 Designed according to AS 3962-2001 & AS 2159		SCALE @ A3 1:50 U.N.O.	OLD PERTH PORT Addition of Floating Walkway Barrack Street SECTION AT HEA ROLLER	DESIGNED ACCORDING TO AS3962-2001
16/11/2019	DG	C	FOR APPROVAL	
26/10/2019	DG	B	FOR APPROVAL	
22/10/2019	DG	A	FOR APPROVAL	
DATE	APP.	REV.	DESCRIPTION	
				DRAWING NUMBER: 7600-02
				SHEET: C

EXISTING BUILDING BEYOND

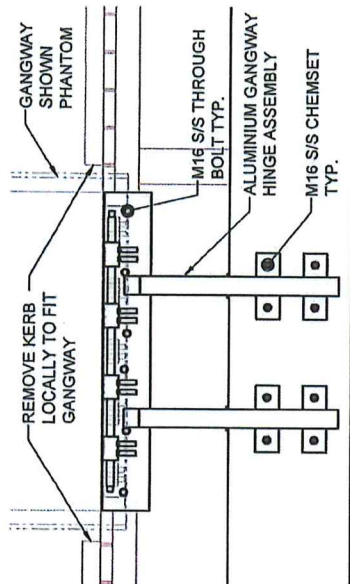
THIS DRAWING IS CERTIFIED BY
 NAME: MENG-HSUN WU
 DATE: 17/11/2019
 POSITION: CIVIL ENGINEER
 ENGINEER AUSTRALIA MEMBERSHIP No.: 3503594



JETTY ELEVATION AT MEAN SEA LEVEL
 SCALE 1:100



DETAIL A -
 SCALE 1:20



VIEW 1 -
 SCALE 1:10

***NOTE:**
 ALL DIMENSIONS
 MARKED WITH * ARE
 APPROXIMATE AND
 TENTATIVE ONLY. ALL
 DIMENSIONS TO BE
 CONFIRMED ON SITE
 BEFORE COMMENCEMENT
 OF WORKS.

FOR APPROVAL

Designed According to AS3962-2001

OLD PERTH PORT
 Addition of Floating Walkway
 Barrack Street
 ELEVATION AT MEAN SEA LEVEL

SCALE @ A3
 1:50 U.N.O.
 DRAWING NUMBER: 7600-03
 ALL LEVELS IN A
 FORMAT: A3

Global Trade Sales
 6 Block Place, Ocean Reef WA 6027
 T: +61 418 951 316
 Designed according to AS 3962-2001 & AS 2159

CERTIFICATION: Meng Hsun Wu Civil Engineer No. 3503594
 Checked Approved Signed

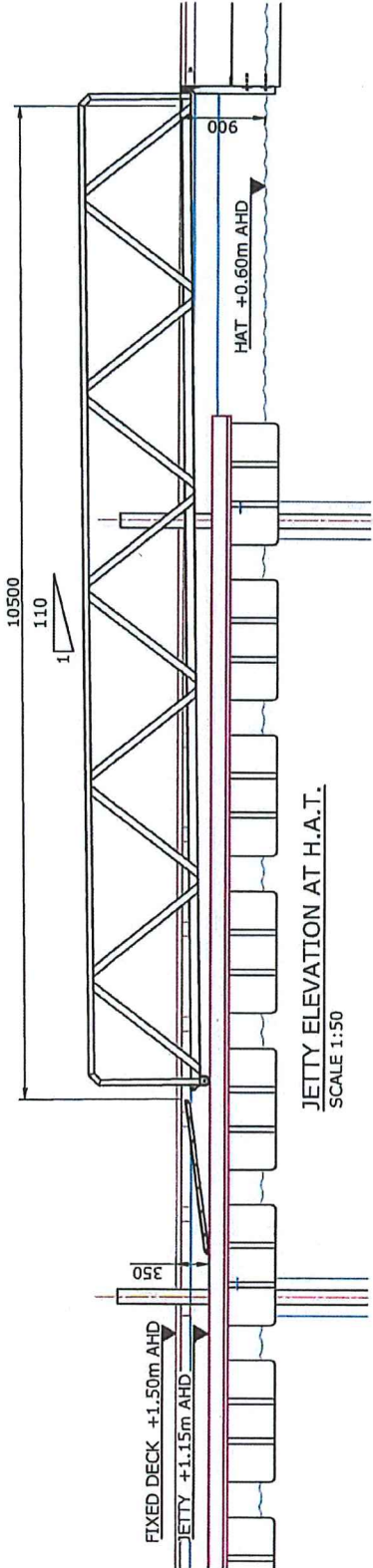


DATE	APP.	REV.	DESCRIPTION
16/11/2019	DG	C	FOR APPROVAL
26/10/2019	DG	B	FOR APPROVAL
22/10/2019	DG	A	FOR APPROVAL

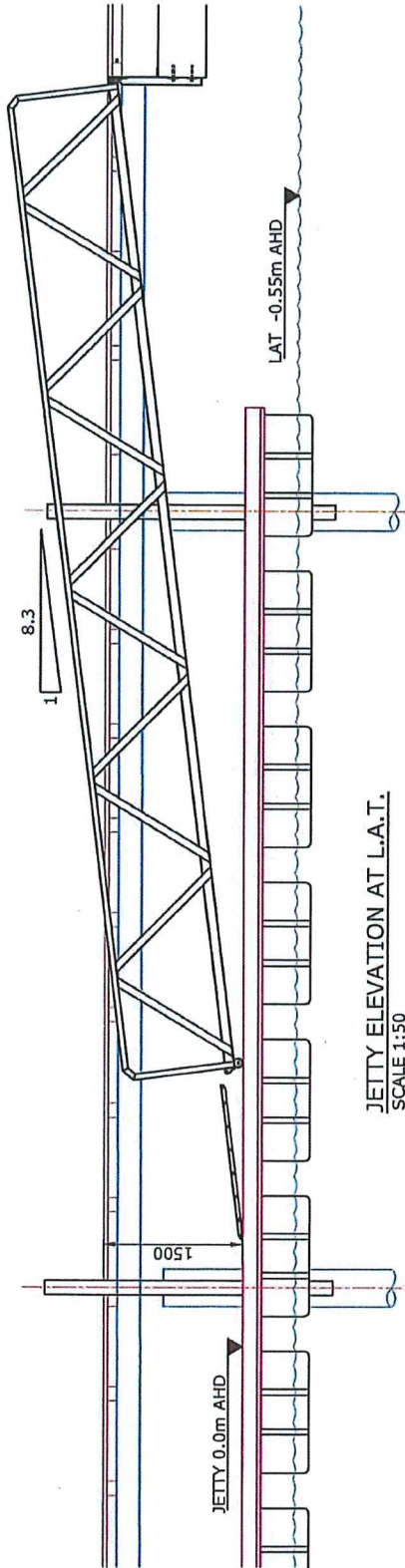
REVISION: C

DRAWING NUMBER: 7600-03
 SHEET: C

DATUM COMPARISON	
SOUNDING	A.H.D.
HAT 1.36	HAT 0.60
MHHW 1.11	MHHW 0.35
MSL 0.76	MSL 0.00
MLLW 0.42	MLLW -0.34
LAT 0.21	LAT -0.55
	0.000
	-0.76



JEITY ELEVATION AT H.A.T.
SCALE 1:50



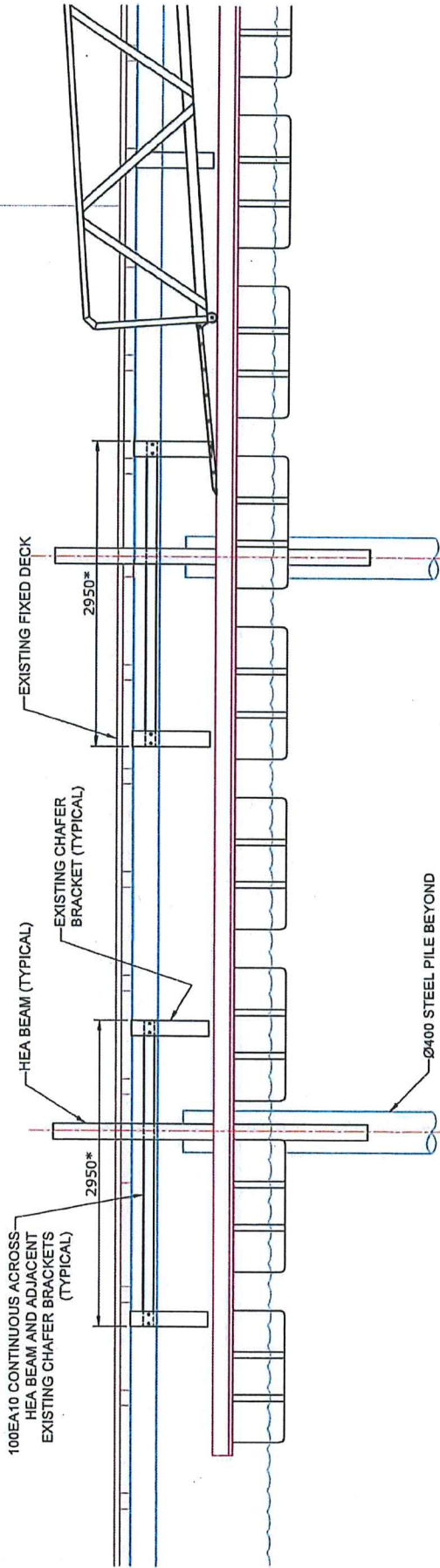
JEITY ELEVATION AT L.A.T.
SCALE 1:50

***NOTE:**
ALL DIMENSIONS
MARKED WITH * ARE
APPROXIMATE AND
TENTATIVE ONLY. ALL
DIMENSIONS TO BE
CONFIRMED ON SITE
BEFORE COMENCEMENT
OF WORKS.

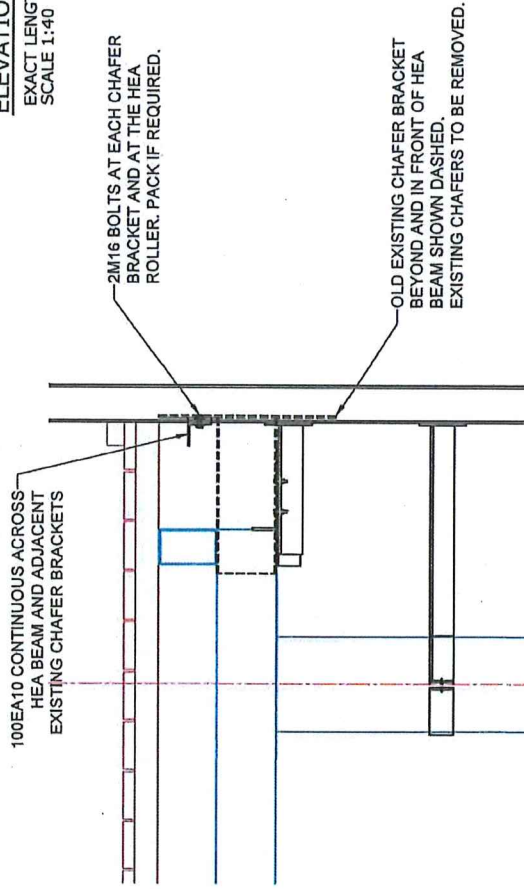
FOR APPROVAL

THIS DRAWING IS CERTIFIED BY
NAME: MENG-HSUN WU
DATE: 17/11/2019
POSITION: CIVIL ENGINEER
ENGINEER AUSTRALIA MEMBERSHIP No.: 3503594

Designed According to AS3962-2001		SCALE @ A3		1:50 U.N.O.	
OLD PERTH PORT		DATE OF CERTIFICATION		ALL LEVELS IN M	
Addition of Floating Walkway		FORMAT		A3	
Barrack Street		DATE		DRAWING NUMBER: 7600-04	
GANGWAY ELEVATIONS AT HAT AND LAT		APPROVED		SHEET: C	
GTS		Global Trade Sales		6 Block Place, Ocean Reef WA 6027	
T: +61 418 951 318		DESIGNED ACCORDING TO AS 3962-2001 & AS 2159		CERTIFICATION: Meng Hsun Wu Civil Engineer No. 3503594	
Checked		Approved		Signed	
16/11/2019	DG	C	FOR APPROVAL		
26/10/2019	DG	B	FOR APPROVAL		
22/10/2019	DG	A	FOR APPROVAL		
DATE	APP.	REV.	DESCRIPTION		



ELEVATION SHOWING HEA BEAM LATERAL SUPPORT
 EXACT LENGTHS OF CROSS SUPPORTS TO BE DETERMINED ON SITE.
 SCALE 1:40



SECTION AT HEA BEAM (HEA ROLLERS AND JETTY NOT SHOWN)
 SCALE 1:20

***NOTE:**
 ALL DIMENSIONS MARKED WITH * ARE APPROXIMATE AND TENTATIVE ONLY. ALL DIMENSIONS TO BE CONFIRMED ON SITE BEFORE COMMENCEMENT OF WORKS.

FOR APPROVAL

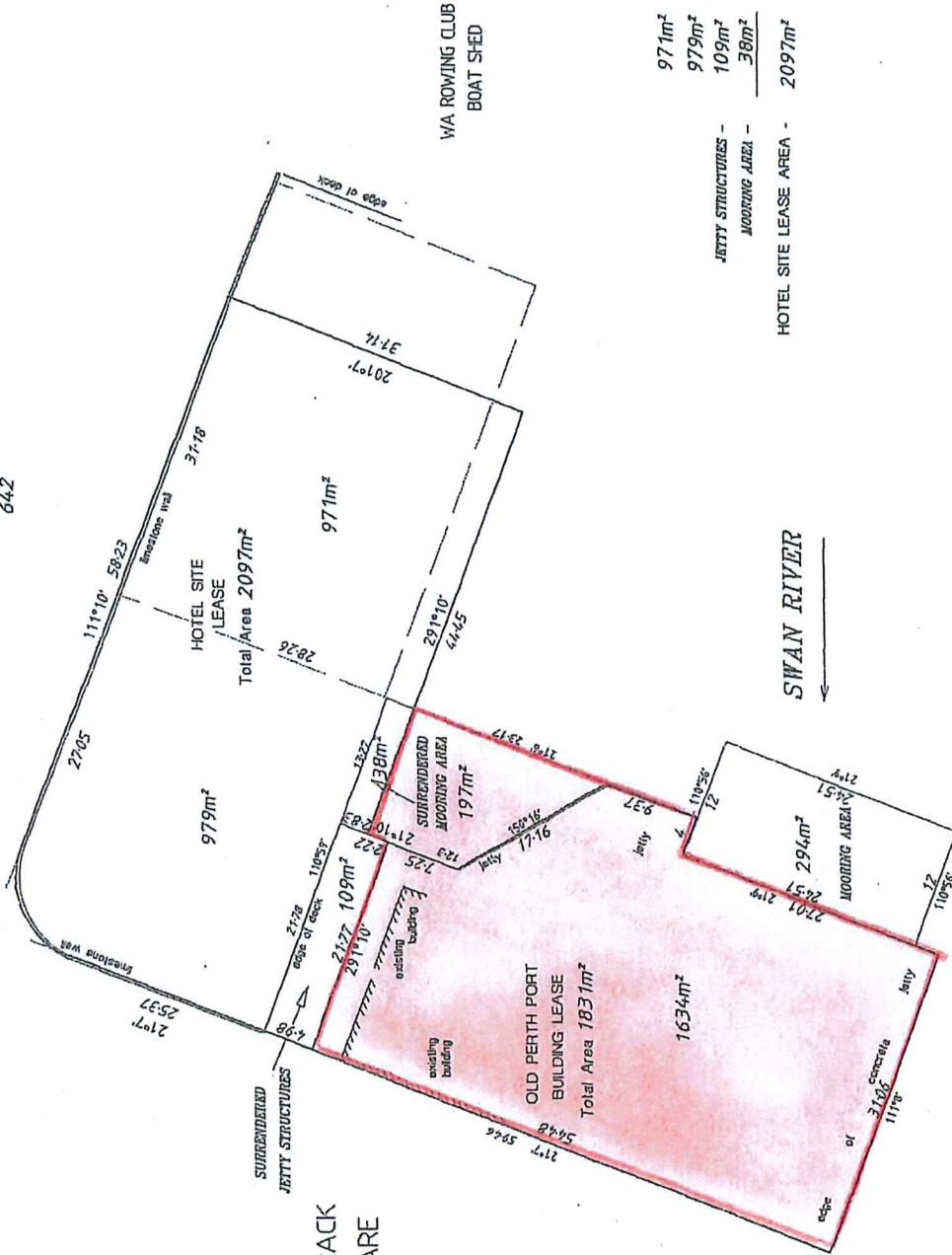
THIS DRAWING IS CERTIFIED BY
 NAME: MENG-HSUN WU
 DATE: 17/11/2019
 POSITION: CIVIL ENGINEER
 ENGINEER AUSTRALIA MEMBERSHIP No.: 3503594

DESIGNED ACCORDING TO AS3962-2001		SCALE @ A3	AS SHOWN	OLD PERTH PORT
Global Trade Sales 6 Block Place, Ocean Reef WA 6027 T: +61 419 951 318 Designed according to AS 3962-2001, & AS 2159		THIS DRAWING IS IN ACCORDANCE WITH ALL RULES IN A	FORMAT	Addition of Floating Walkway Barrack Street
CERTIFICATION: Meng Hsun Wu Civil Engineer No. 3503594		APPROVED	A3	HEA BEAM LATERAL SUPPORT
DATE	APP.	REV.	DESCRIPTION	DRAWING NUMBER: 7600-05
16/11/2019	DG	C	FOR APPROVAL	SHEET: C
26/10/2019	DG	B	FOR APPROVAL	
22/10/2019	DG	A	FOR APPROVAL	

Attachment 3

SWAN RIVER
RIVER BED LEASE

AM13012
642



971m²
979m²
109m²
38m²

JETTY STRUCTURES -
MOORING AREA -
HOTEL SITE LEASE AREA - 2097m²

Handwritten signature/initials in blue ink.

TITLE: BARRACK SQUARE PLAN TO ACCOMPANY RIVER BED LEASE Client: MCGEEES	GIUDICE SURVEYS ESTABLISHED 1972 LICENSED LAND SURVEYORS Land Subdivisions, Strata Conventions, Engineering Surveys, Project Management	LOT: 301/00 - NEW	DATE: 14/12/04
		PLAN/DIA: C/T: VOLUME - FOL	REVISION: SURVD M.B.D. DRAWN P.R.J. CHECKED
WAPC REF: 0 25 5 10 15 20 25 1 : 500		SCALE: A3	