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ORDER OF COST ESTIMATE

**WYNDHAM COMMUNITY BOAT LAUNCHING FACILITY**

Draft

# Wyndham Community Boat Launching Facility

## Order of Cost Estimate

### Estimate Clarifications

#### Description

##### ***Basis of Estimate***

This Order of Cost Estimate is based upon the information received to which we have applied rates and prices we believe to be currently applicable as at December 2020 (4th Quarter, 2020) for undertaking the works as we understand them to be.

This Order of Cost Estimate has been prepared in accordance with the Quantity Surveying services requested.

This Order of Cost Estimate is based upon the information in the possession of RLB, as provided to us by WGA, and no other information has been relied upon.

##### **COVID-19 Impact**

Our estimate has been prepared on the basis of normal economic and industry circumstances. The full impact of COVID-19 is unknown at this stage and changing daily. Our estimate makes no provision for the impacts of COVID-19 virus and we advise that an impact on the estimate is probable and could vary considerably depending on the extent of a variety of issues. These may include but are not limited to the following issues, which are intended as a guide as opposed to a comprehensive list:

- Economy, industry and society shut down.
- Exchange rate fluctuations (our estimate reflects pricing as at the US\$0.65 market exchange rate at the date of this estimate).
- Off shore manufacturing capacity and delivery timing.
- On shore site deliveries of plant, materials and equipment.
- On site staff to manage productivity of the works.
- On site labour to implement the works.

RLB has observed that, for key construction components, there is an increasing reluctance by contractors to commit to a definitive programme or cost for future projects. This estimate does not consider increased project costs due to potential programme delays, alternative procurement methods of materials and/or labour nor the wider potential impact of COVID-19 on construction activities.

##### ***Items Specifically Included***

The Order of Cost Estimate assumes the following:

- Abutment volume provided by WGA
- Construction commencement Q1 2022.
- Design and professional fee value as provided by WGA.
- Free and uninterrupted access to perform the works.
- Landside parking areas provided by WGA
- No allowance for unsuitable material removal.
- Scour protection volume provided by WGA
- Works planned to be undertaken during favourable conditions.
- Works to be staged and undertaken during normal working hours.
- Works to be delivered as one Construct Only Contract.

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##### **Items Specifically Excluded**

The Order of Cost Estimate specifically excludes the following:

- Aboriginal heritage, cultural and native title matters.
- Cathodic protection.
- Client project delivery fees.
- Diversion and / or relocation of existing public utilities and services.
- Dredging works.
- Enhancement of existing infrastructure services generally.
- Escalation.
- Fees and charges levied by authorities, councils and / or service bodies.
- Finance, holding and interest fees and charges.
- Goods and services tax (GST).
- Headwork fees and charges.
- Latent ground conditions including removal of rock, PASS and / or contaminated materials.
- Navigational aids in the form of channel markers, buoys and / or sea camels and the like.
- Public authority bonds, charges and fees.
- Relocation, removal and / or protection of unknown utilities and services.
- Works neither shown nor documented.
- Works outside of the boundary.

##### **Documents**

The following documents have been used in preparing this Order of Cost Estimate:

##### **Drawings**

WGA200221-DR-MA-001 [B]  
 WGA200221-DR-MA-002 [A]  
 WGA200221-DR-MA-004 [A]  
 WGA200221-DR-MA-011 [C]  
 WGA200221-DR-MA-021 [C]  
 WGA200221-DR-MA-022 [C]  
 WGA200221-DR-MA-023 [C]  
 WGA200221-DR-MA-024 [A]  
 WGA200221-DR-MA-031 [B]  
 WGA200221-DR-MA-032 [A]  
 WGA200221-DR-MA-041 [C]  
 WGA200221-DR-MA-042 [C]  
 WGA200221-DR-MA-043 [A]  
 WGA200221-DR-MA-044 [A]  
 WGA200221-DR-MA-101 [B]  
 WGA200221-DR-MA-102 [B]

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WGA200221-DR-MA-104 [B]  
 WGA200221-DR-MA-105 [B]  
 WGA200221-DR-MA-107 [B]  
 WGA200221-DR-MA-108 [B]  
 WGA200221-DR-MA-111 [A]  
 WGA200221-DR-MA-112 [A]  
 WGA200221-DR-MA-113 [A]  
 WGA200221-DR-MA-114 [A]  
 WGA200221-DR-MA-115 [A]  
 WGA200221-DR-MA-116 [A]  
 WGA200221-DR-MA-121 [B]  
 WGA200221-DR-MA-122 [A]  
 WGA200221-DR-MA-123 [A]

#### **WGA Cost Estimate**

Wyndham Public Jetty - Cost Estimate

#### **WGA Cost Estimate Report**

WGA200221-RP-AA-0002[A] - Cost Estimate - DRAFT

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# Wyndham Community Boat Launching Facility

## Order of Cost Estimate

Cost Estimate Summary

Rates Current At December 2020

Location	Total Cost
<b>A STAGE 1</b>	<b>5,644,340.32</b>
<b>B STAGE 2</b>	<b>22,520.52</b>
<b>C STAGE 3</b>	<b>232,512.66</b>
<b>ESTIMATED NET COST</b>	<b>\$5,899,373.50</b>
 <b>MARGINS &amp; ADJUSTMENTS</b>	
Contractor Preliminaries	25.0% \$1,310,626.50
<b>ESTIMATED CONSTRUCTION COST</b>	<b>\$7,210,000.00</b>
Design and Professional Fees	1.4% \$100,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$7,310,000.00</b>
Project Contingency	15.0% \$1,100,000.00
Escalation	Excl.
Goods and Services Tax	Excl.
<b>ESTIMATED TOTAL COST</b>	<b>\$8,410,000.00</b>

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# Wyndham Community Boat Launching Facility

## Order of Cost Estimate

### Cost Estimate Breakdown

#### A STAGE 1

Rates Current At December 2020

Description	Unit	Qty	Rate	Total
<b>SB SUBSTRUCTURE</b>				
31 Supply and install 150x4.0 CHS stainless steel bollard fixed to abutment with 300mm diameter x 20mm thick stainless steel baseplate	No	2.0	1,294.87	2,589.73
32 Supply and install 1200mm high hot dipped galvanised handrail fixed to concrete	m	13.0	394.09	5,123.17
38 4700mm x 1500mm reinforced precast concrete plank with waffle pattern	No	85.0	4,137.94	351,724.63
54 Excavation for concrete abutment (assume 500mm depth from existing ground), including disposal off site	m <sup>3</sup>	10.0	95.71	957.08
55 Supply and install formwork to insitu concrete abutment	m <sup>2</sup>	41.0	275.87	11,310.37
56 Supply and install ribbed stainless steel reinforcement to insitu concrete abutment	t	5.890	4,109.79	24,206.66
57 Supply and install reinforced insitu concrete (Grade S50MPa) to concrete abutment	m <sup>3</sup>	22.0	957.08	21,055.63
<b>SUBSTRUCTURE</b>				<b>\$416,967.27</b>
<b>XP SITE PREPARATION</b>				
1 Allowance for site clearance generally	m <sup>2</sup>	859.0	5.63	4,836.04
2 Demolition of existing pontoon, including grating, framing and handrail, disposal off site	m <sup>2</sup>	206.0	337.80	69,584.91
3 Removal of existing piles and disposal off site	No	11.0	4,503.88	49,542.65
4 Demolition of existing abutment and disposal off site	m <sup>2</sup>	44.0	506.69	22,294.20
5 Allowance for remediation of strata inline of new pontoon arrangement	Item			33,779.08
<b>SITE PREPARATION</b>				<b>\$180,036.88</b>
<b>P PILING</b>				
6 Mobilisation and demobilisation of marine based piling equipment	Item			562,984.60
7 Supply 762mm diameter steel piles (minimum grade 350 MPa)	t	153.630	3,152.72	484,351.42
8 Driving vertical 762mm diameter steel piles	M/R	420.0	1,857.85	780,296.67
9 Cutting off piles and preparing heads	No	9.0	2,083.05	18,747.39
17 900mm diameter HDPE sleeve to pile	m	107.0	3,940.90	421,675.47
10 Supply and install epoxy corrosion protection to outside face of piles	m <sup>2</sup>	257.0	95.71	24,596.80
53 Supply and install grout infill between sleeve and pile	m <sup>3</sup>	36.0	3,209.02	115,524.44
<b>PILING</b>				<b>\$2,408,176.79</b>
<b>PO PONTOON</b>				
11 Supply and install 178x9.0 SHS aluminum 6061-T6 structural member for pontoon frame (B1)	m	146.0	591.14	86,305.55
12 Supply and install 2 x 178x9.0 SHS aluminum 6061-T6 structural member for pontoon frame (B1 D)	m	693.0	1,182.27	819,311.49
13 Supply and install 160 x106 x 6.0 RHS aluminum 6061-T6 structural member for pontoon frame (B2)	m	707.0	281.50	199,015.06
14 Supply and install 100x100x10 EA aluminum 6061-T6 structural member for pontoon frame (B3)	m	443.0	163.27	72,326.64

# Wyndham Community Boat Launching Facility

## Order of Cost Estimate

### Cost Estimate Breakdown

#### A STAGE 1 (continued)

Rates Current At December 2020

Description	Unit	Qty	Rate	Total
15 Fabrication and installation of aluminium pontoon frame	No	7.0	73,188.00	512,315.99
16 Supply and installation of 4047x1247x38 thick minimesh grating panel	m <sup>2</sup>	460.0	394.09	181,281.04
18 Supply and install HDPE bearer plates	No	205.0	39.41	8,078.84
19 Supply and install Trelleborg 100x100 DC horizontal fender	m	204.0	731.88	149,303.52
20 Supply and install 100x100 UHMWPE vertical fender	m	88.0	731.89	64,405.45
21 Supply and install aluminum marine mooring cleat fixed with 300x300x16 aluminum plate	No	69.0	957.08	66,038.10
22 Supply and install 1000mm high aluminum handrail, fully welded to framing members	m	61.0	394.09	24,039.45
23 Supply and install 120x120 recycled plastic kerb	m	90.0	50.67	4,560.18
24 Allowance for aluminum floats	m <sup>2</sup>	535.0	281.50	150,598.38
25 Supply and install 1100mm high aluminum handrail fully welded, including gridmesh	m	38.0	669.96	25,458.17
26 Supply and install Firstlight Technologies solar powered LED bollards	No	18.0	2,420.84	43,575.02
27 Supply and install pile gate	No	9.0	3,940.90	35,468.04
37 Supply and install 4700mm x 800mm x 750mm reinforced precast anchor beam	No	2.0	7,144.28	14,288.56
36 Supply and install 2700mm x 500mm x 250mm reinforced precast sleeper beam, including M16 stainless steel anchors cast in at 250c/c (9 per sleeper)	No	40.0	957.08	38,282.96
40 Supply and install access ladder	No	2.0	9,570.74	19,141.48
44 Supply and install 1080mm x 378mm x 50mm thick UHMWPE Fender (Pile guide type 1), fixed with countersunk stainless steel bolts	No	18.0	957.08	17,227.33
45 Supply and install 568mm x 318mm x 50mm thick UHMWPE Fender (Pile guide type 2), fixed with countersunk stainless steel bolts	No	4.0	731.89	2,927.53
46 Supply and install 2 no. 1080mm x 378mm stainless steel cover plate (Pile guide type 1), fixed to fender rubber with 8m8 tek screws	No	18.0	394.09	7,093.61
47 Supply and install 2No 568mm x 318mm stainless steel cover plate (Pile guide type 2), fixed to fender rubber with 3m8 tek screws	No	4.0	298.39	1,193.53
48 Supply and install 320mm x 318mm x 20mm backing plate (Pile guide type 1)	No	72.0	275.87	19,862.10
49 Supply and install 320mm x 318mm x 20mm plate (Pile guide type 1), fixed with M20 stainless steel bolts	No	72.0	410.98	29,590.48
50 Supply and install 320mm x 70mm x 25mm tab plate (Pile guide type 1)	No	144.0	253.35	36,481.41
51 Supply and install 568mm x 70mm x 25mm tab plate (Pile guide type 2)	No	16.0	253.35	4,053.49

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## Order of Cost Estimate

### Cost Estimate Breakdown

#### A STAGE 1 (continued)

Rates Current At December 2020

Description	Unit	Qty	Rate	Total
52 Supply and install 568mm x 318mm x 20mm plate (Pile guide type 2), fixed with M20 stainless steel bolts	No	16.0	433.50	6,935.98
			<b>PONTOON</b>	<b>\$2,639,159.38</b>
			<b>STAGE 1</b>	<b>\$5,644,340.32</b>

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## Order of Cost Estimate

Cost Estimate Breakdown

### B STAGE 2

Rates Current At December 2020

Description	Unit	Qty	Rate	Total
<b>SB SUBSTRUCTURE</b>				
39 Supply and lay toe scour protection riprap, including excavation and placement	m <sup>3</sup>	30.0	264.61	7,938.08
<b>SUBSTRUCTURE</b>				<b>\$7,938.08</b>
<b>XP SITE PREPARATION</b>				
33 Demolish existing kerbs and remove off site	m	97.0	20.27	1,965.95
34 Demolish existing paving blocks and remove off site	m <sup>2</sup>	249.0	22.52	5,607.32
35 Allowance for remediation of strata under northern ramp	m <sup>2</sup>	249.0	28.15	7,009.17
<b>SITE PREPARATION</b>				<b>\$14,582.44</b>
<b>STAGE 2</b>				<b>\$22,520.52</b>

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Cost Estimate Breakdown

### C STAGE 3

Rates Current At December 2020

Description	Unit	Qty	Rate	Total
<b>XR ROADS, FOOTPATHS AND PAVED AREAS</b>				
42 Allowance for overflow parking bays, including excavation, supply, placement and compaction of 200mm basecourse	m <sup>2</sup>	2,400.0	67.56	162,139.57
43 Allowance for remediation of Foreshore Drive	m <sup>2</sup>	2,500.0	28.15	70,373.09
<b>ROADS, FOOTPATHS AND PAVED AREAS</b>				<b>\$232,512.66</b>
<b>STAGE 3</b>				<b>\$232,512.66</b>

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