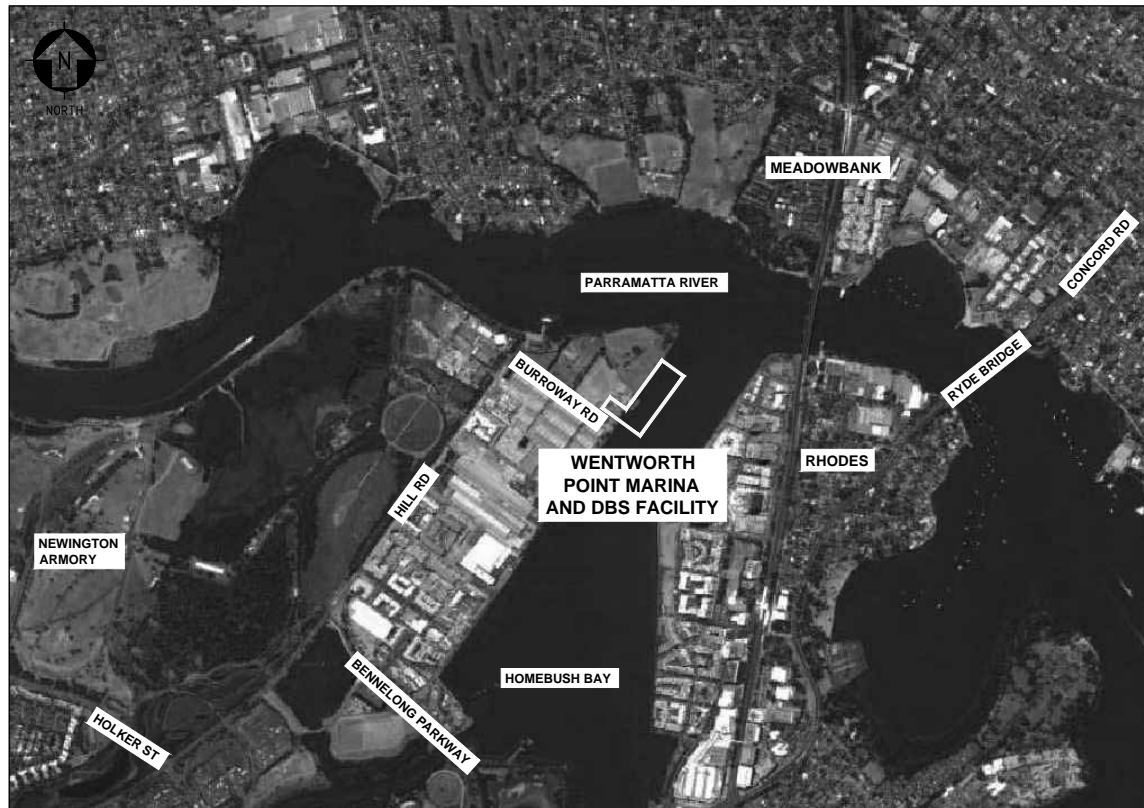


# WENTWORTH POINT MARINA AND DRY BOAT STORAGE (DBS) FACILITY for ROADS AND MARITIME SERVICES



LOCALITY PLAN  
NTS

## DRAWING LIST

301015-03538-MA-DWG-0100	COVER SHEET, LOCALITY PLAN AND DRAWING LIST
301015-03538-MA-DWG-0101	MARINA LAYOUT PLAN
301015-03538-MA-DWG-0102	MARINA SECTIONS
301015-03538-MA-DWG-0201	MARINE OPERATIONS PLAN
301015-03538-MA-DWG-1102	DRY BOAT STORAGE FACILITY TYPICAL SECTION

REV	DATE	REVISION DESCRIPTION	DRAWN	DRAFT CHK	DESIGNED	ENG CHK	APPROVED	CUSTOMER	REF DRAWING No	REFERENCE DRAWING TITLE
D	29.03.17	ISSUED TO CLIENT	VIP	BW	DHL	PMC	BSM			
C	09.02.15	ISSUED TO CLIENT	BW	ARG	DHL	SDB	DHL			
B	16.10.14	ISSUED TO CLIENT	VIP	ARG	DHL	SDB	DHL			
A	22.08.14	ISSUED FOR CLIENT REVIEW	VIP	ARG	DHL	SDB	PMC			

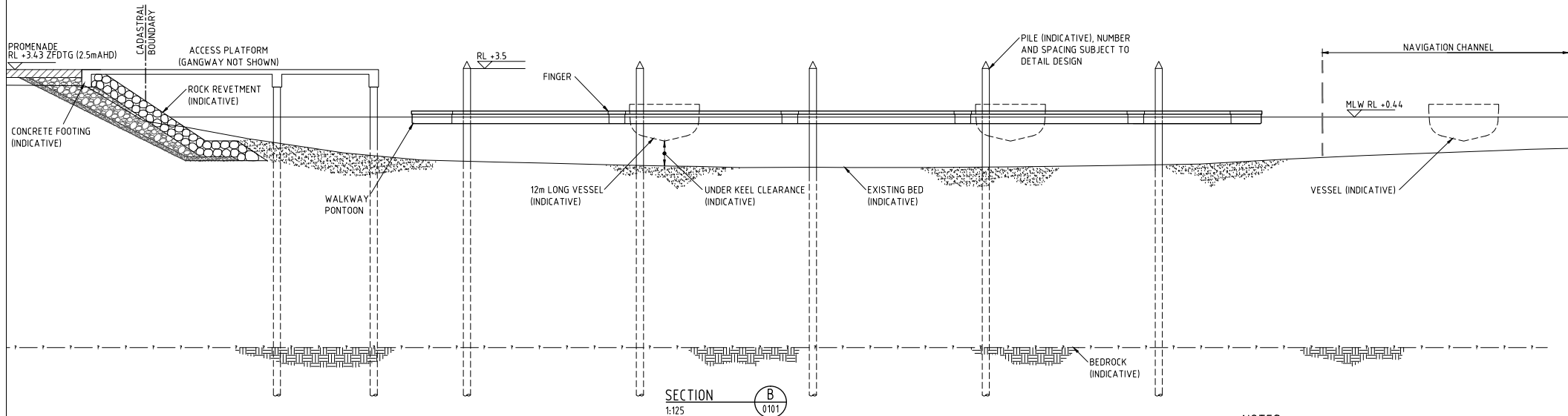
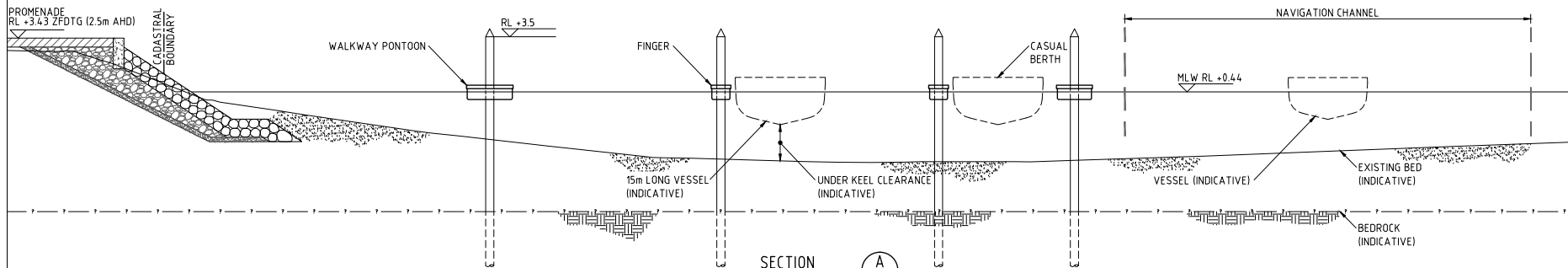
A1 SHEET SCALE	NTS
<b>OneWay</b>	
Copyright © WorleyParsons Services Pty Ltd ABN 61 001 279 812	
WORLEYPARSONS PROJECT No.	301015-03538

ENGINEERING AND PERMIT STAMPS (As Required)
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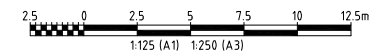
	WENTWORTH POINT MARINA AND DBS FACILITY COVER SHEET, LOCALITY PLAN AND DRAWING LIST
DRG No	301015-03538-MA-DWG-0100
REV	D





NOTES:


1. ALL DIMENSIONS IN METRES AND REDUCED LEVELS TO ZERO FORT DENISON TIDE GAUGE (ZFDTG), WHICH IS APPROXIMATELY 0.93m BELOW AUSTRALIAN HEIGHT DATUM (AHD).
2. BATHYMETRIC SURVEY PROVIDED BY RMS DATED 22 AND 27 JULY 2016.
3. VESSEL DRAFT SHOWN ARE AS PER RMS GUIDANCE NOTE 02 TABLE 2.1. 1.4m DRAFT FOR 12m LONG VESSEL AND 1.5m DRAFT FOR 15m LONG VESSEL.




REV	DATE	REVISION DESCRIPTION	DRAWN	DRAFT CHK	DESIGNED	ENG CHK	APPROVED	CUSTOMER	REF DRAWING No	REFERENCE DRAWING TITLE
E	04.07.17	ACCESS PLATFORM AMENDED	KM	ARG	DHL	PMC	BSM			
D	29.06.17	ISSUED TO CLIENT	KM	ARG	DHL	PMC	BSM			
C	29.03.17	ISSUED TO CLIENT	VIP	BW	DHL	PMC	BSM			
B	09.02.15	ISSUED TO CLIENT	EN	ARG	DHL	SDB	DHL			
A	16.10.14	ISSUED TO CLIENT	VIP	ARG	DHL	SDB	DHL			

A1 SHEET SCALE
<b>OneWay</b>
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WENTWORTH POINT MARINA AND DBS FACILITY MARINA SECTIONS
DRG No 301015-03538-MA-DWG-0102
REV E

FOR MORE DETAIL OF THE  
DRY BOAT STORAGE FACILITY  
REFER TO CM DOCUMENT DRY  
BOAT STORAGE FACILITY  
DEVELOPMENT APPLICATION

← DRY BOAT  
STORAGE FACILITY

← ENTRY TO DRY BOAT  
STORAGE (DBS) FACILITY

LAUNCHING CHANNEL

ROCK APRON

TEMPORARY BERTHS FOR DBS STAGING

STRUCTURE TO  
ARCHITECTS DETAILS

PEDESTRIAN BRIDGE

CADASTRAL  
BOUNDARY

RL +3.43 ZFDTG  
(2.5m AHD)

ROCK REVETMENT  
BEYOND

GANGWAY

PILE (INDICATIVE), NUMBER  
AND SPACING SUBJECT TO  
DETAIL DESIGN

10m LONG VESSEL  
(INDICATIVE)

RL +3.5

MSL RL +0.95  
MHW RL +1.45  
RLW RL +0.74

MSL RL -1.58 ZFDTG (-2.5m AHD)

CHANNEL SLAB

ROCK APRON  
(INDICATIVE)

RL -1.58

EXISTING BED  
(INDICATIVE)

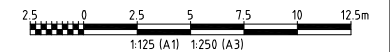
UNDER KEEL CLEARANCE  
(INDICATIVE)

BEDROCK  
(INDICATIVE)

SECTION  
1:125  
C  
0101  
DRY BOAT STORAGE FACILITY

#### NOTES:

1. ALL DIMENSIONS IN METRES AND REDUCED LEVELS TO ZERO FORT DENISON TIDE GAUGE (ZFDTG), WHICH IS APPROXIMATELY 0.93m BELOW AUSTRALIAN HEIGHT DATUM (AHD).
2. EXISTING BED LEVELS BASED ON BATHYMETRIC SURVEY PROVIDED BY RMS DATED 22 AND 27 JULY 2016.
3. ASSUMES MAXIMUM VESSEL SIZE OF 10m FOR DBS FACILITY.
4. VESSEL DRAFT SHOWN ARE AS PER RMS GUIDANCE NOTE 02 TABLE 2.1. 13m DRAFT FOR 10m LONG VESSEL.
5. DETAILS AND DIMENSIONS ARE SUBJECT TO DETAILED DESIGN AND FURTHER GEOTECHNICAL INVESTIGATION.



REV	DATE	REVISION DESCRIPTION	DRAWN	DRAFT CHK	DESIGNED	ENG CHK	APPROVED	CUSTOMER	REF DRAWING No	REFERENCE DRAWING TITLE
C	29.06.17	ISSUED TO CLIENT	KM	ARG	DHL	PMc	BSM			
B	29.03.17	ISSUED TO CLIENT	VP	BW	DHL	PMc	BSM			
A	11.02.15	ISSUED TO CLIENT	EN	ARG	DHL	SDB	DHL			

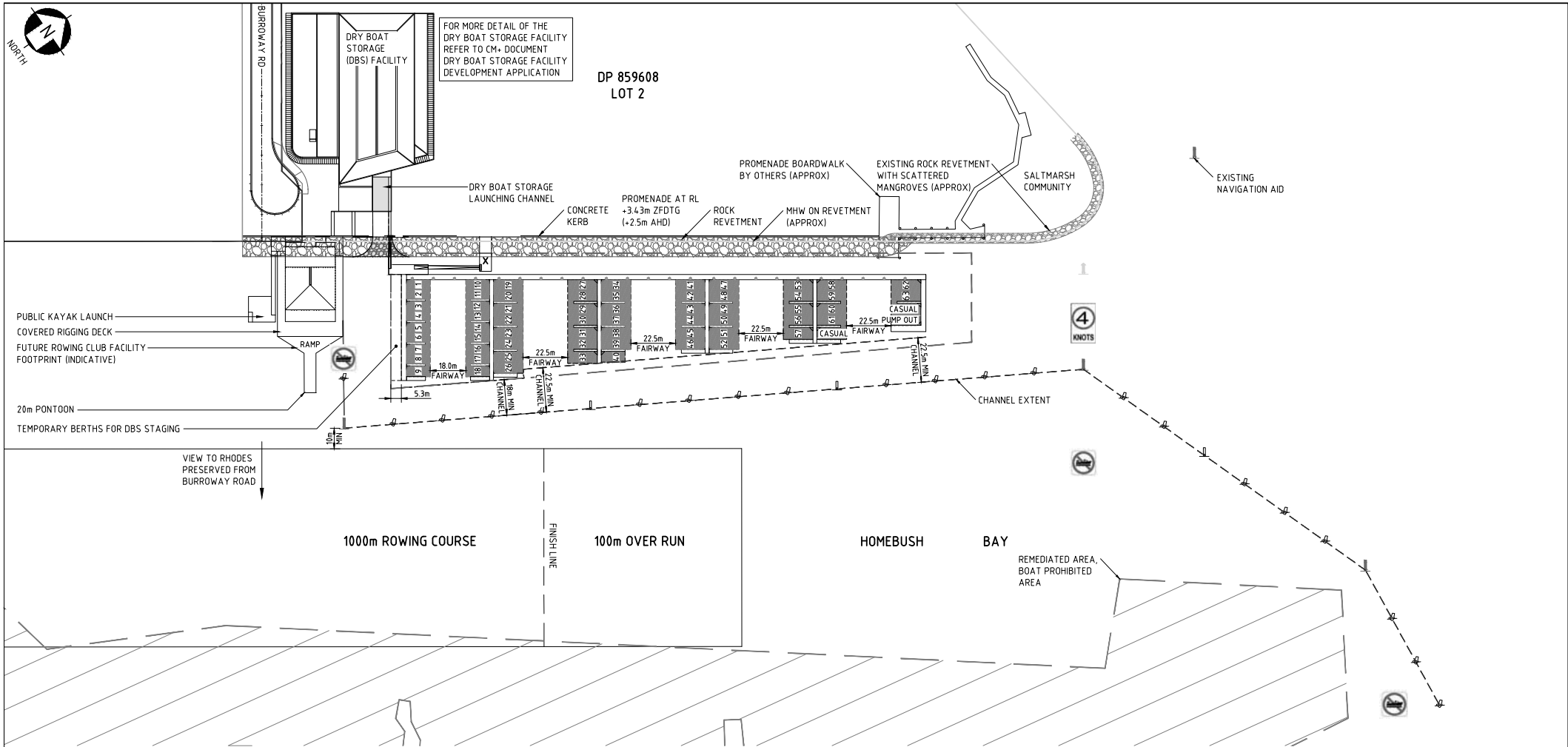
A1 SHEET SCALE
<b>OneWay</b>
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WORLEYPARSONS PROJECT No. 301015-03538

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WENTWORTH POINT MARINA AND DBS FACILITY DRY BOAT STORAGE FACILITY TYPICAL SECTION
DRG No 301015-03538-MA-DWG-1102
REV C





#### LEGEND:

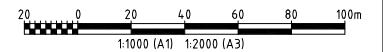
- X ACCESS CONTROL SECURITY GATE (INDICATIVE)
- SIGNAGE FOR BOAT PROHIBITED AREA WITH EXCEPTION OF ROWING FACILITY AND RMS VESSELS
- SIGNAGE FOR FOUR KNOT SPEED LIMIT AREA
- PILED NAVIGATION AIDS, GREEN OR RED FLASHING (INDICATIVE SUBJECT TO RMS REQUIREMENTS)
- PILED MARK
- BERTH NUMBER
- FLOATING MARK (INDICATIVE SUBJECT TO RMS REQUIREMENTS)

#### LEGEND (continued):

- MHW ON PROPOSED REVETMENT (APPROX)
- MARINA LEASE BOUNDARY (INDICATIVE SUBJECT TO CONFIRMATION WITH RMS)
- CHANNEL EXTENT
- RMS (MARITIME) TITLE BOUNDARY
- CADASTRAL BOUNDARY

#### NOTES:

- ALL DIMENSIONS IN METRES AND REDUCED LEVELS TO ZERO FORT DENISON TIDE GAUGE (ZFDG), WHICH IS APPROXIMATELY 0.93m BELOW AUSTRALIAN HEIGHT DATUM (AHD).
- BATHYMETRIC SURVEY PROVIDED BY RMS DATED 22 AND 27 JULY 2016.



REV	DATE	REVISION DESCRIPTION	DRAWN	DRAFT CHK	DESIGNED	ENG CHK	APPROVED	CUSTOMER	REF DRAWING No	REFERENCE DRAWING TITLE	AT SHEET SCALE	ENGINEERING AND PERMIT STAMPS (As Required)	CUSTOMER	DRG No	REV
E	25.07.17	DBS AND ROWING CLUB AMENDED	ARG	DHL	DHL	BSM	BSM				1:1000 (A1)	 Copyright © WorleyParsons Services Pty Ltd ABN 61 001 279 812 WORLEYPARSONS PROJECT No. 301015-03538	 WENTWORTH POINT MARINA AND DBS FACILITY MARINE OPERATIONS PLAN	301015-03538-MA-DWG-0201	E
D	04.07.17	MARINA ACCESS AMENDED	KM	ARG	DHL	PMC	BSM								
C	29.06.17	ISSUED TO CLIENT	KM	ARG	DHL	PMC	BSM								
B	29.03.17	ISSUED TO CLIENT	VIP	BW	DH	PMC	BSM								
A	09.02.15	ISSUED TO CLIENT	EN	ARG	DHL	SDB	DHL								

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**16105 | WWP DBSF**

**DRY BOAT STORAGE  
FACILITY**

**DEVELOPMENT APPLICATION**

26 JULY 2017 | ISSUE FOR DA SUBMISSION

PREPARED FOR  
**ROADS AND MARITIME  
SERVICES**

DRY BOAT STORAGE FACILITY

DRAWING REGISTER

DRAWING SCHEDULE				
DRAWING NO.	TITLE	SCALE	DATE	REVISION
DA000	PROJECT COVER	NTS @ A1	26/07/2017	J
DA001	CONTENTS PAGE	NTS @ A1	26/07/2017	H
DA002	LOCATION PLAN	1:2000 @ A1	26/07/2017	G
DA003	SITE PLAN	1: 500 @ A1	26/07/2017	H
DA004	SITE ANALYSIS	NTS @ A1	26/07/2017	E
DA011	PLAN - GROUND FLOOR	1: 200 @ A1	26/07/2017	M
DA012	PLAN - LEVEL 1	1: 200 @ A1	26/07/2017	H
DA013	PLAN - UPPER LEVELS	1: 200 @ A1	26/07/2017	K
DA014	PLAN - ROOF	1: 200 @ A1	26/07/2017	L
DA021	ELEVATION SOUTH-WEST	1: 200 @ A1	26/07/2017	K
DA022	ELEVATION SOUTH-EAST	1: 200 @ A1	26/07/2017	K
DA023	ELEVATION NORTH-EAST	1: 200 @ A1	26/07/2017	J
DA024	ELEVATION NORTH-WEST	1: 200 @ A1	26/07/2017	G
DA031	SECTION 1	1: 200 @ A1	26/07/2017	H
DA032	SECTION 2	1: 200 @ A1	26/07/2017	J
DA041	FACADE DETAILS	1 :50 @ A1	26/07/2017	F
DA042	FACADE DETAILS	1:10 @ A1	26/07/2017	B
DA051	AREA SCHEDULE	NTS @ A1	26/07/2017	G
DA061	SHADOW DIAGRAMS	NTS @ A1	26/07/2017	B
DA071	EXTERNAL MATERIALS PALETTE	NTS @ A1	26/07/2017	B

Document Notes			
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Drawings made to larger scales and those showing particular parts of the works take precedence over drawings made to smaller scales or for general purposes.			
All work is to conform to relevant Australian Standards and Codes together with all Authorities' requirements and Regulations.			
DATE	DESCRIPTION	APP	REV
02/05/17	ISSUE FOR COORDINATION	BA	A
10/05/17	ISSUE FOR COORDINATION	BA	B
17/05/17	ISSUE FOR COORDINATION	BA	C
24/05/17	ISSUE FOR COORDINATION	BA	D
06/06/17	ISSUE FOR COORDINATION	BA	E
21/06/17	ISSUE FOR COORDINATION	BA	F
28/06/17	ISSUE FOR COORDINATION	BA	G
26/07/17	ISSUE FOR DA SUBMISSION	BA	H

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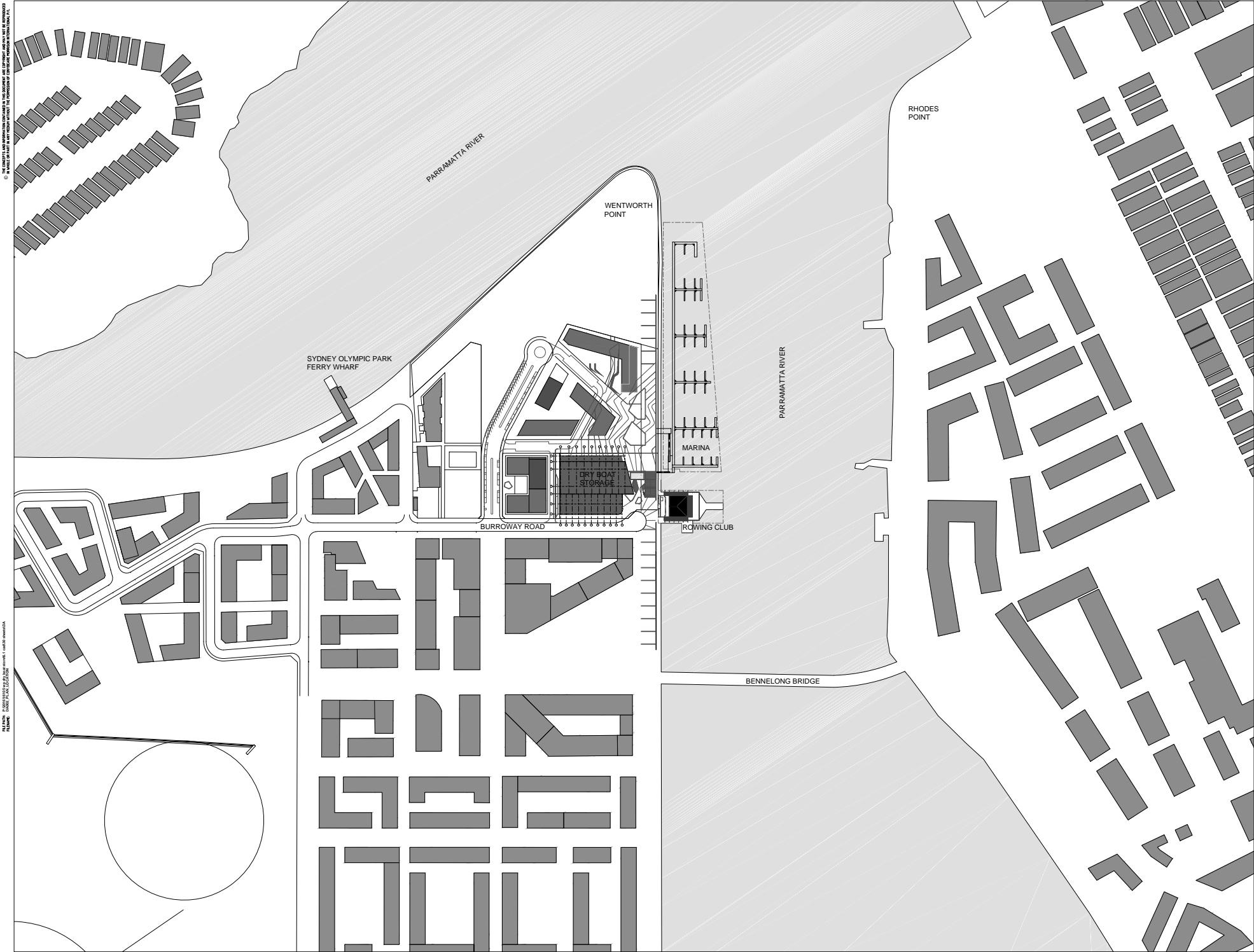


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Darwin Conyngnam NSW ARB No 2252 | Bld Morrison NSW ARB No 2447

PROJECT  
16105  
**DRY BOAT STORAGE FACILITY**  
Wentworth Point, Sydney

TITLE  
**CONTENTS PAGE**

NUMBER  
**DA001**



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SCALE: 1:2000 (SEE NOTE 1) NORTH: INDICATED

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DATE	DESCRIPTION	APP	REV
26/04/17	ISSUE FOR COORDINATION	BA	-
02/05/17	ISSUE FOR COORDINATION	BA	A
10/05/17	ISSUE FOR COORDINATION	BA	B
17/05/17	ISSUE FOR COORDINATION	BA	C
06/06/17	ISSUE FOR COORDINATION	BA	D
21/06/17	ISSUE FOR COORDINATION	BA	E
28/06/17	ISSUE FOR COORDINATION	BA	F
26/07/17	ISSUE FOR DA SUBMISSION	BA	G

NOTE:

SURROUNDING BUILDINGS' FOOTPRINT ARE INDICATIVE ONLY.

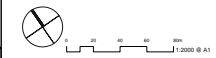
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Darrell Conyngnam NSW ARB No 2252 | Bill Morrison NSW ARB No 2447



PROJECT

16105

**DRY BOAT STORAGE FACILITY**

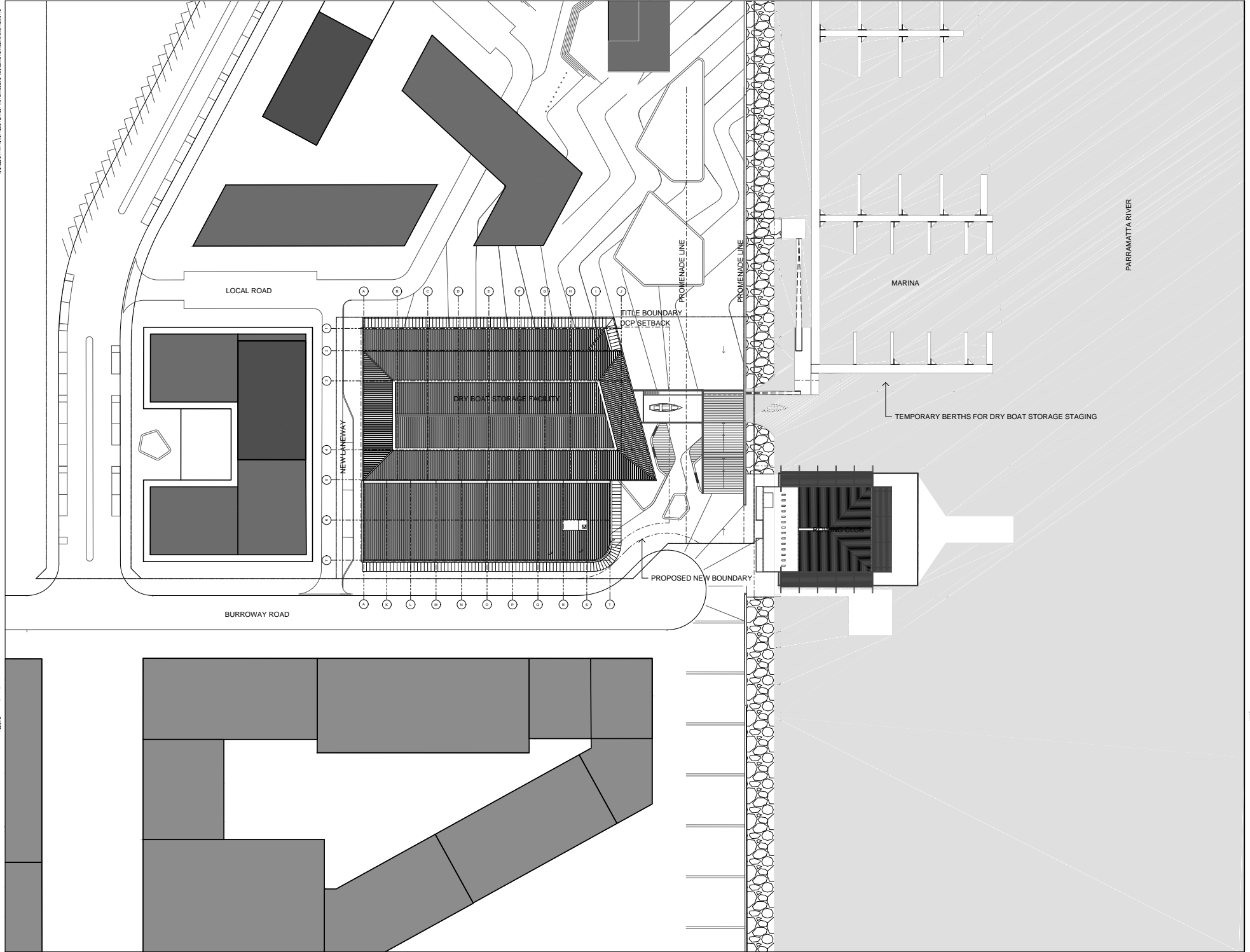
**Wentworth Point, Sydney**

TITLE

**PLAN - LOCATION**

NUMBER

**DA002**



Document Notes

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DATE	DESCRIPTION	APP	REV
26/04/17	ISSUE FOR COORDINATION	BA	-
02/05/17	ISSUE FOR COORDINATION	BA	A
19/05/17	ISSUE FOR COORDINATION	BA	B
17/05/17	ISSUE FOR COORDINATION	BA	C
24/05/17	ISSUE FOR COORDINATION	BA	D
06/06/17	ISSUE FOR COORDINATION	BA	E
21/06/17	ISSUE FOR COORDINATION	BA	F
28/06/17	ISSUE FOR COORDINATION	BA	G
26/07/17	ISSUE FOR DA SUBMISSION	BA	H

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PROJECT

16105

**DRY BOAT STORAGE FACILITY**

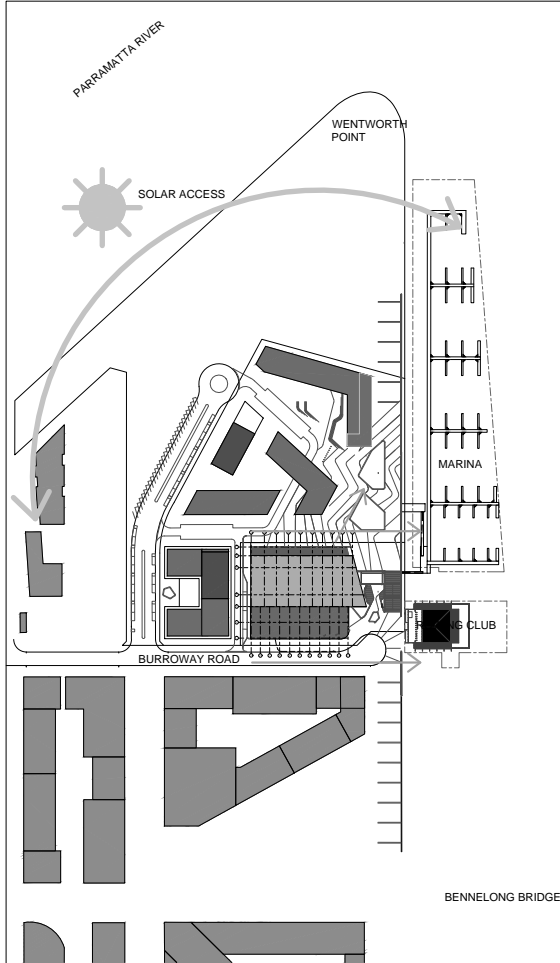
Wentworth Point, Sydney

TITLE

**PLAN - SITE**

NUMBER

**DA003**

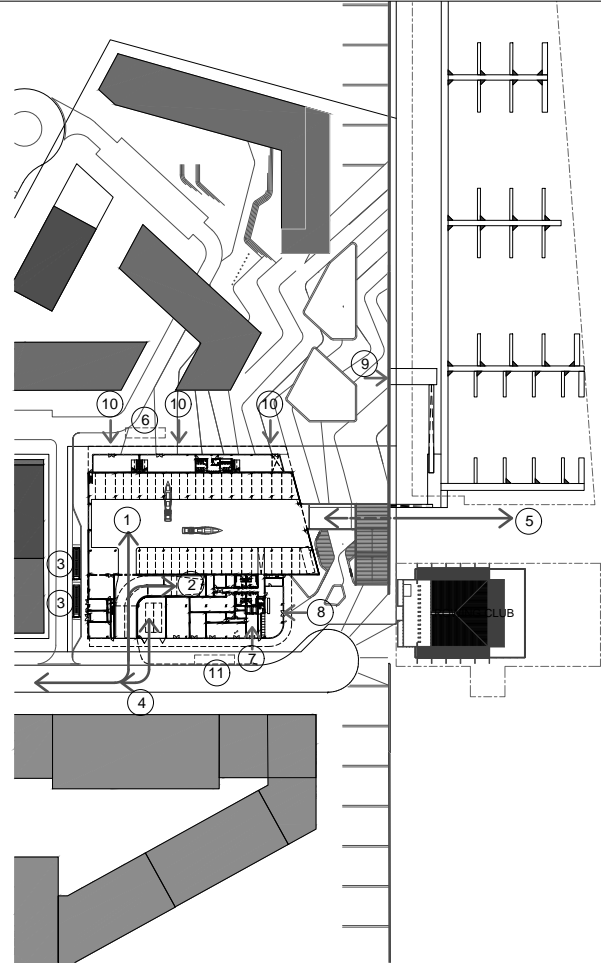


#### SOLAR ACCESS & VIEWS

##### Legend

- Dry Boat Storage Facility (DBSF)
- Car Parking Building
- Retail
- View corridor

HOME BUSH BAY OF THE FLATS

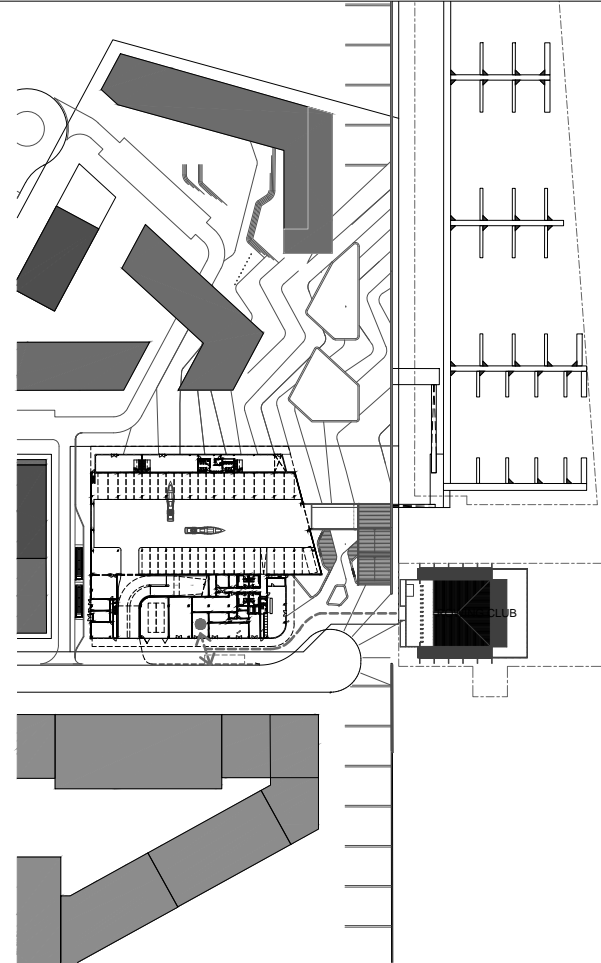


#### VEHICULAR, BOAT & PEDESTRIAN ACCESS

##### Legend

- 1 DBSF boat / vehicular access
- 2 Car Park vehicular access
- 3 Mini bus parking
- 4 Trailer parking access
- 5 Boat launching channel
- 6 Retail loading area
- 7 Car park pedestrian access
- 8 DBSF office & customer access
- 9 Marina access
- 10 Retail access
- 11 Boat loading / Drop off area

HOME BUSH BAY OF THE FLATS



#### WASTE MANAGEMENT PLAN

##### Legend

- Bin Room
- Bin collection point
- Bin storage / collection path

HOME BUSH BAY OF THE FLATS

Document Notes

Verify all dimensions on site before commencing work. Report all discrepancies to the Architect Prior to construction. Use figured dimensions in preference to scaled dimensions.

Drawings made to larger scales and those showing particular parts of the works take precedence over drawings made to smaller scales or for general purposes.

All work is to conform to relevant Australian Standards and Codes together with all Authorities' requirements and Regulations.

DATE	DESCRIPTION	APP	REV
17/05/17	ISSUE FOR COORDINATION	BA	-
24/05/17	ISSUE FOR COORDINATION	BA	A
06/06/17	ISSUE FOR COORDINATION	BA	B
21/06/17	ISSUE FOR COORDINATION	BA	C
28/06/17	ISSUE FOR COORDINATION	BA	D
28/07/17	ISSUE FOR DA SUBMISSION	BA	E

NOTE:  
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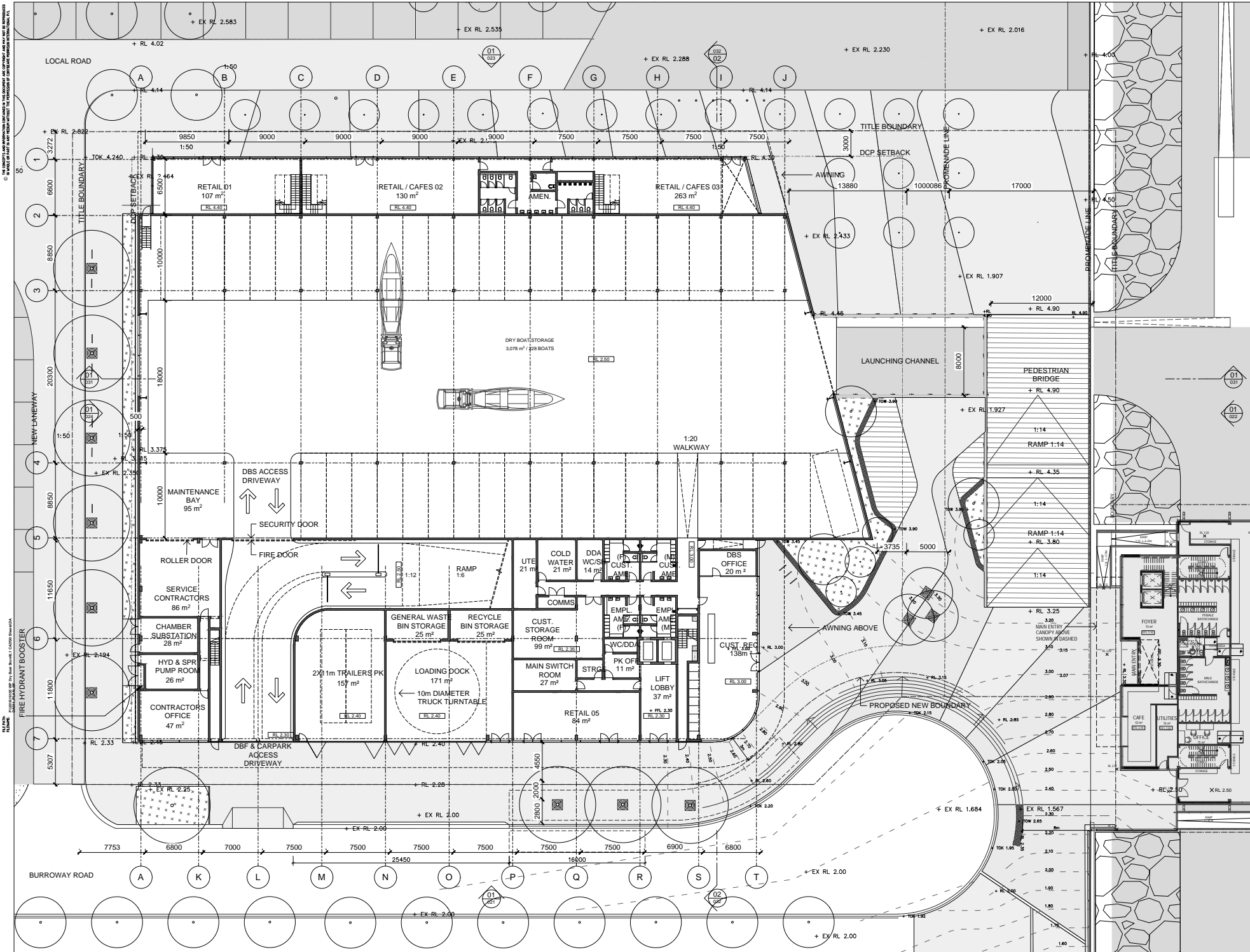
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NTS

PROJECT  
16105  
**DRY BOAT STORAGE  
FACILITY**  
Wentworth Point, Sydney

TITLE  
**SITE ANALYSIS**

NUMBER  
**DA004**



Document Notes

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All work is to conform to relevant Australian Standards and Codes together with all Authorities' requirements and Regulations.

DATE	DESCRIPTION	APP	REV
02/05/17	ISSUE FOR COORDINATION	BA	A
10/05/17	ISSUE FOR COORDINATION	BA	B
17/05/17	ISSUE FOR COORDINATION	BA	C
24/05/17	ISSUE FOR COORDINATION	BA	D
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26/06/17	ISSUE FOR COORDINATION	BA	G
28/06/17	ISSUE FOR COORDINATION	BA	H
14/07/17	ISSUE FOR COORDINATION	BA	J
18/07/17	ISSUE FOR COORDINATION	BA	K
21/07/17	ISSUE FOR COORDINATION	BA	L
26/07/17	ISSUE FOR DA SUBMISSION	BA	M
09/04/18	ISSUE FOR DA SUBMISSION	BA	N

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Dorval Constructions NSW ABN No 22521 BSI Morrison NSW ABN No 2447

PROJECT

16105

**DRY BOAT STORAGE FACILITY**

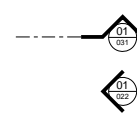
Wentworth Point, Sydney

TITLE

**PLAN - GROUND FLOOR**

NUMBER

**DA011**



Document Name:

Verify all dimensions on site before commencing work. Report all discrepancies to the Architect Prior to construction. Use figured dimensions in preference to scaled dimensions.

Drawings made to larger dimensions and those showing partial parts of the wall and/or foundation are shown to larger scales or at full general purpose scale.

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DATE	DESCRIPTION	APP	REV
17/05/17	ISSUE FOR COORDINATION	B	-
19/05/17	ISSUE FOR COORDINATION	B	A
24/05/17	ISSUE FOR COORDINATION	B	A
06/06/17	ISSUE FOR COORDINATION	B	C
21/06/17	ISSUE FOR COORDINATION	B	A
28/06/17	ISSUE FOR COORDINATION	B	E
14/07/17	ISSUE FOR COORDINATION	B	F
21/07/17	ISSUE FOR COORDINATION	B	G
26/07/17	ISSUE FOR DA SUBMISSION	B	H

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Darrel Conybeare NSW ARB No 2252 | Bill Morrison NSW ARB No 2447



PROJECT

16105

**DRY BOAT STORAGE FACILITY**  
Wentworth Point, Sydney

TITLE  
**PLAN  
LEVEL 1**

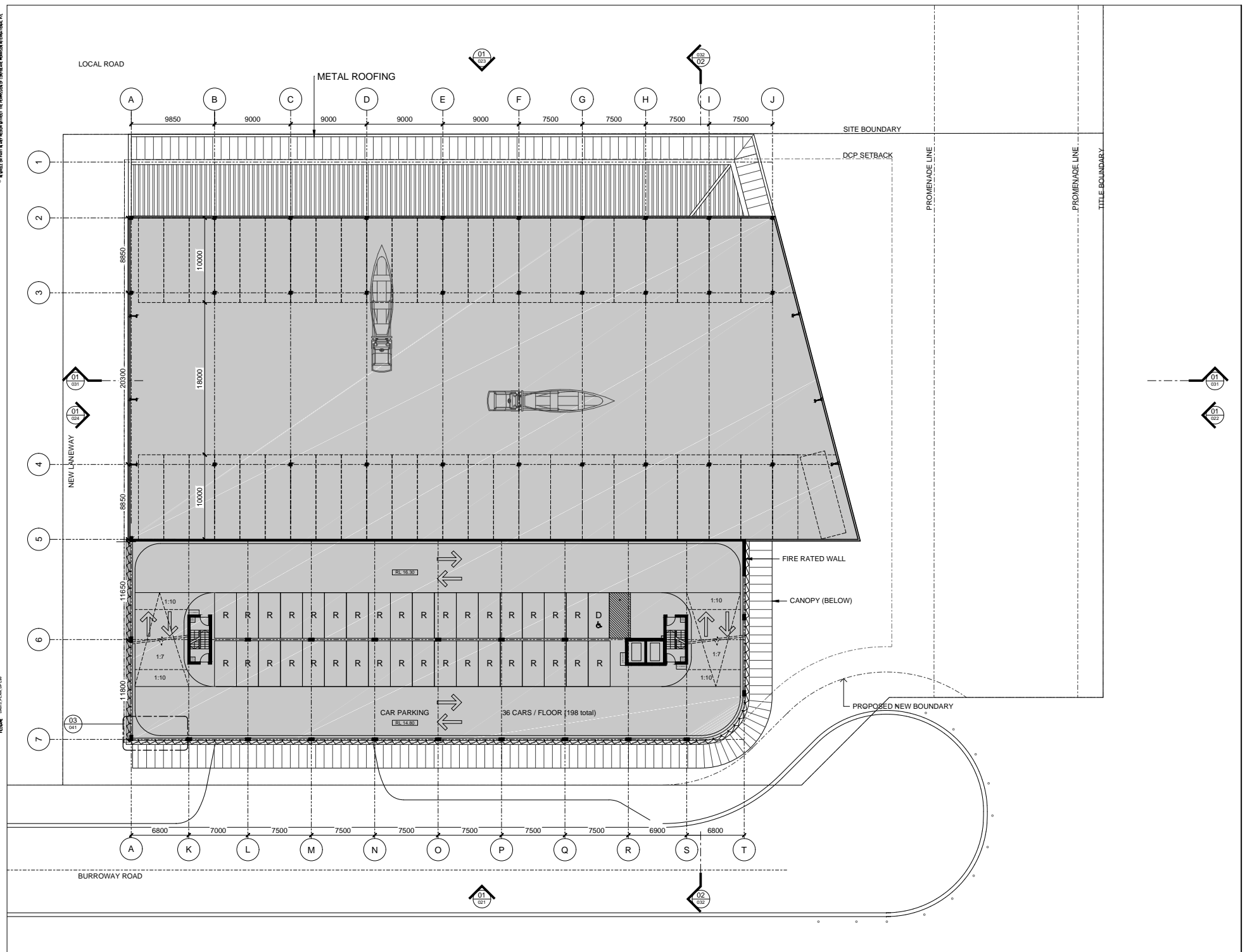
NUMBER

DA012



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PLAN - UPPER LEVELS  
SCALE: 1:200 @ A1  
DATE: 2017-01-01  
BY: CM+ MORRISON INTERNATIONAL PTY LTD.



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DATE	DESCRIPTION	APP	REV
26/04/17	ISSUE FOR COORDINATION	BA	-
02/05/17	ISSUE FOR COORDINATION	BA	A
19/05/17	ISSUE FOR COORDINATION	BA	B
17/05/17	ISSUE FOR COORDINATION	BA	C
24/05/17	ISSUE FOR COORDINATION	BA	D
06/06/17	ISSUE FOR COORDINATION	BA	E
21/06/17	ISSUE FOR COORDINATION	BA	F
28/06/17	ISSUE FOR COORDINATION	BA	G
14/07/17	ISSUE FOR COORDINATION	BA	H
21/07/17	ISSUE FOR COORDINATION	BA	J
26/07/17	ISSUE FOR DA SUBMISSION	BA	K

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PROJECT

16105

**DRY BOAT STORAGE FACILITY**

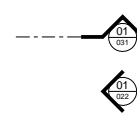
Wentworth Point, Sydney

TITLE

**PLAN - UPPER LEVELS**

NUMBER

**DA013**



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**PROJECT**  
16105

**DRY BOAT STORAGE  
FACILITY**  
Wentworth Point, Sydney

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**TITLE**  
**PLAN - ROOF**

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**NUMBER**  
**DA014**



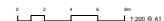
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28/06/17	ISSUE FOR COORDINATION	BA	H
14/07/17	ISSUE FOR COORDINATION	BA	J
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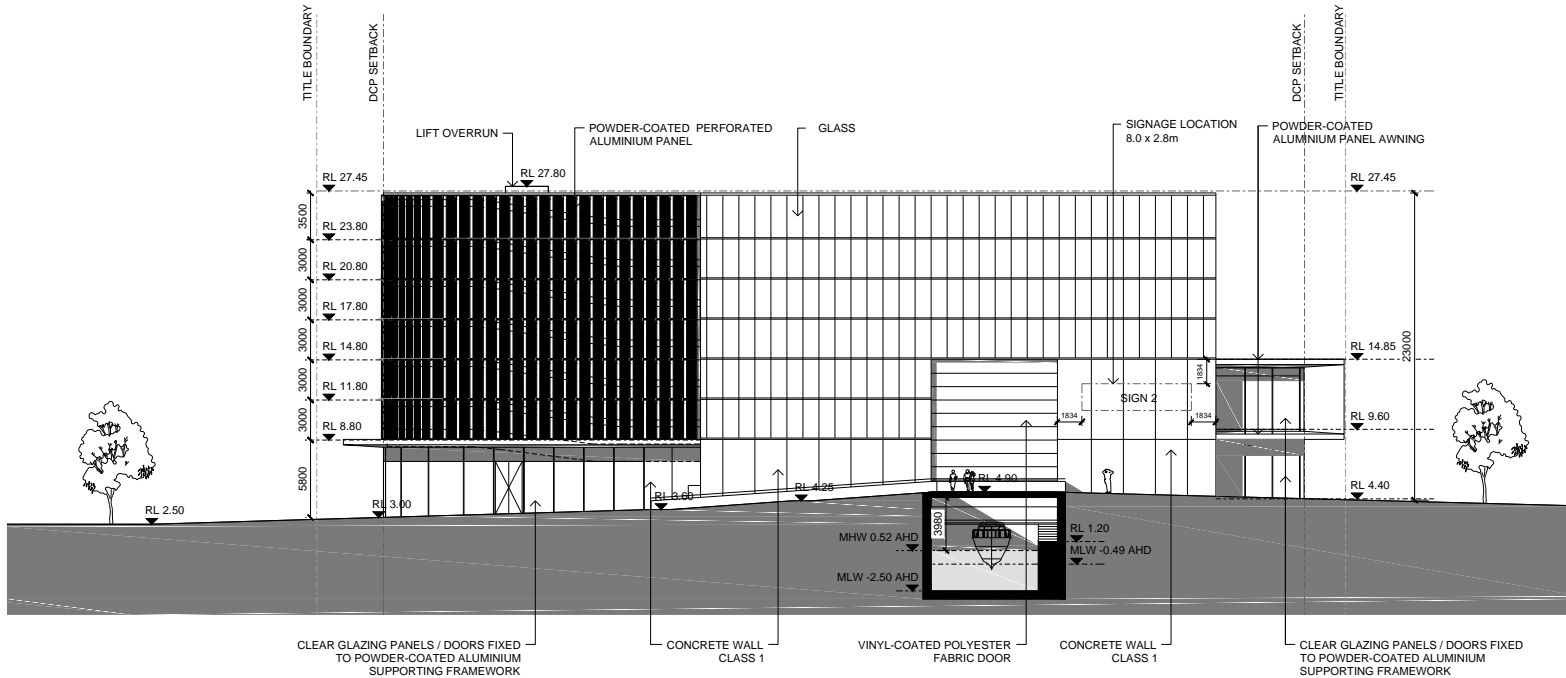
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Darrel Conybeare NSW ARB No 2252 | Bill Morrison NSW ARB No 2447



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16105  
**DRY BOAT STORAGE  
FACILITY**  
Wentworth Point, Sydney

TITLE  
**ELEVATION  
SOUTH-WEST**

NUMBER  
**DA021**



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PROJECT

16105

**DRY BOAT STORAGE FACILITY**

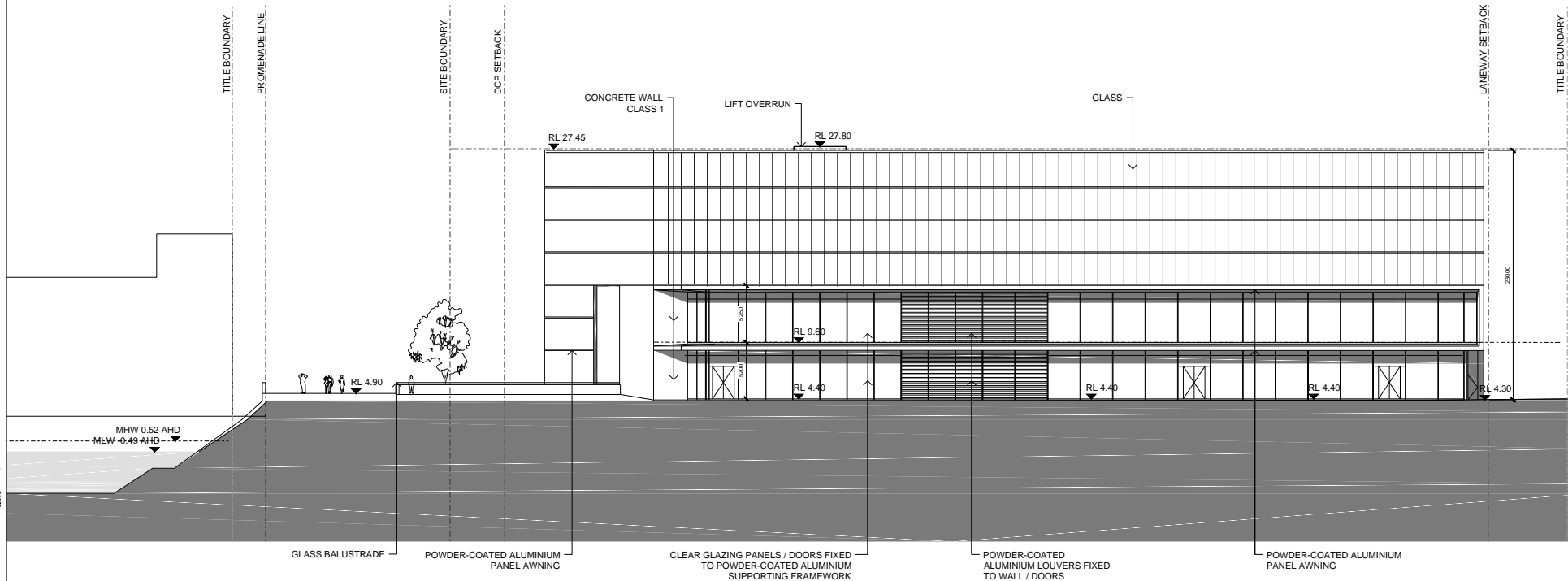
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TITLE

**ELEVATION SOUTH-EAST**

NUMBER

**DA022**



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21/06/17	ISSUE FOR COORDINATION	BA	F
28/06/17	ISSUE FOR COORDINATION	BA	G
14/07/17	ISSUE FOR COORDINATION	BA	H
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PROJECT

16105

**DRY BOAT STORAGE FACILITY**

Wentworth Point, Sydney

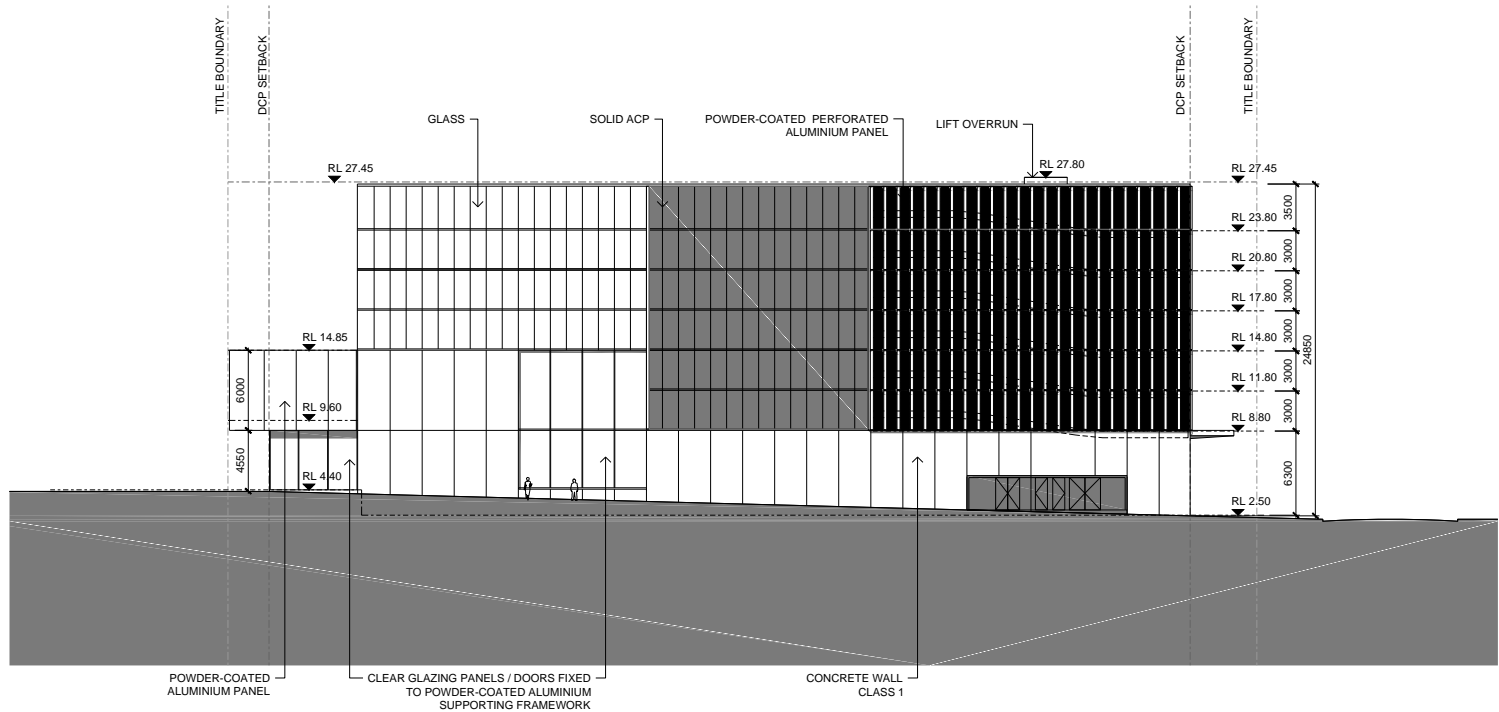
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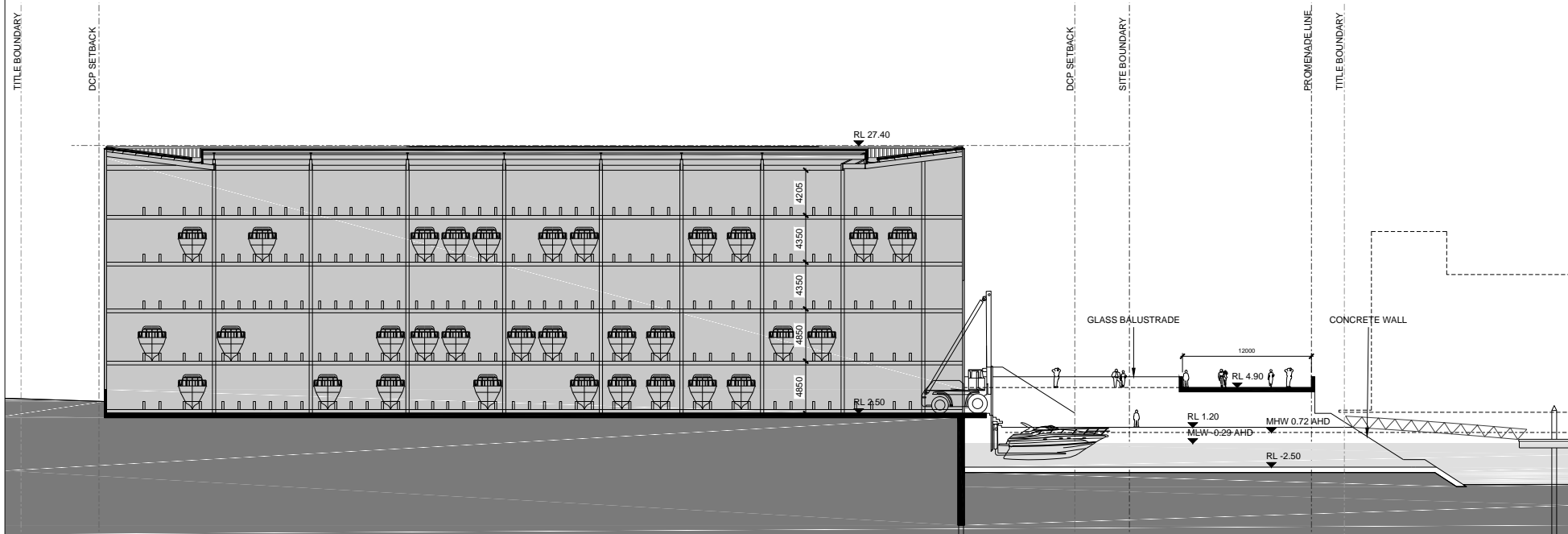
**ELEVATION**

**NORTH-EAST**

NUMBER

**DA023**





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21/06/17	ISSUE FOR COORDINATION	BA	E
28/06/17	ISSUE FOR COORDINATION	BA	F
14/07/17	ISSUE FOR COORDINATION	BA	G
26/07/17	ISSUE FOR COORDINATION	BA	H

NOTE:

BOAT SIZES / PROFILES ARE INDICATIVE ONLY.  
FINAL RACKING CONFIGURATION TBC BY OPERATOR.

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Roads & Maritime Services

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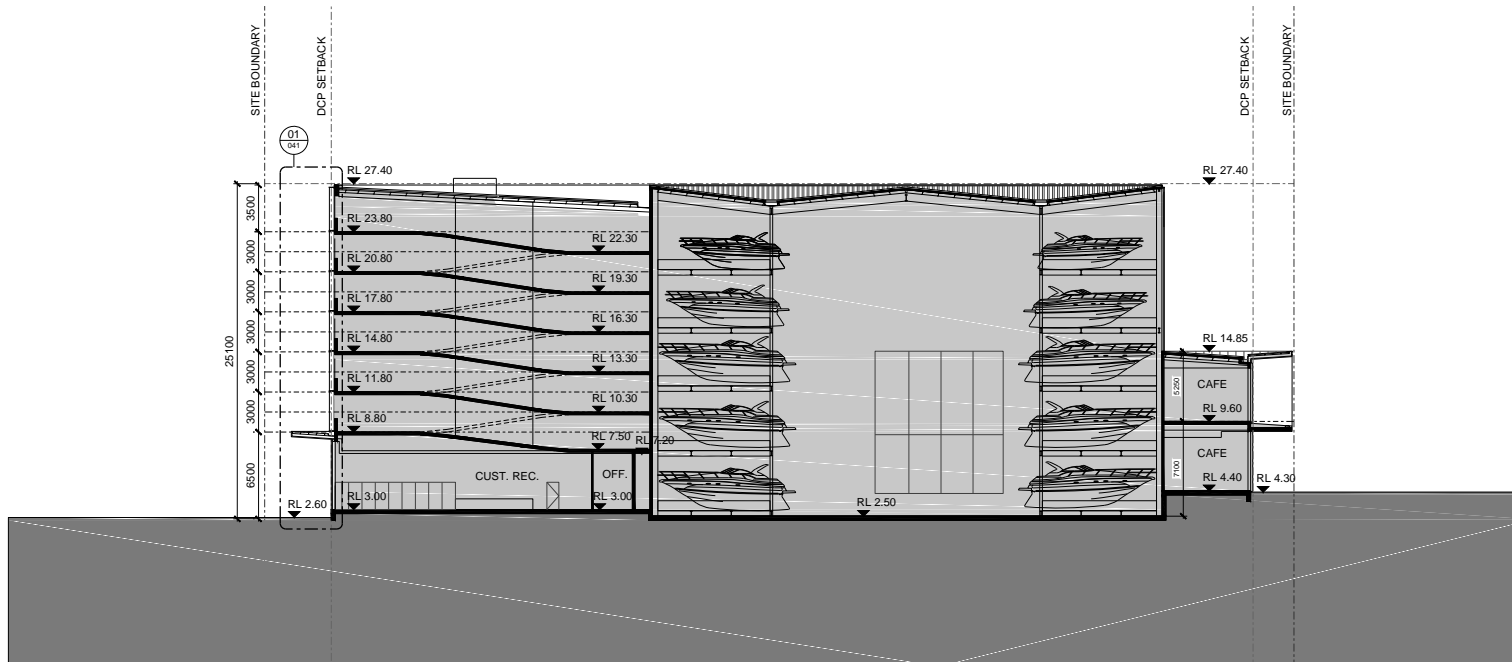
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Derril Corrybeare NSW ARB No 2252 | Bill Morrison NSW ARB No 2447

0 2 4 6 8m  
1:200 @ A1

PROJECT  
16105  
**DRY BOAT STORAGE  
FACILITY**  
Wentworth Point, Sydney

TITLE  
**SECTION 1  
THROUGH BRIDGE**

NUMBER  
**DA031**



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PROJECT

16105

**DRY BOAT STORAGE FACILITY**

Wentworth Point, Sydney

TITLE

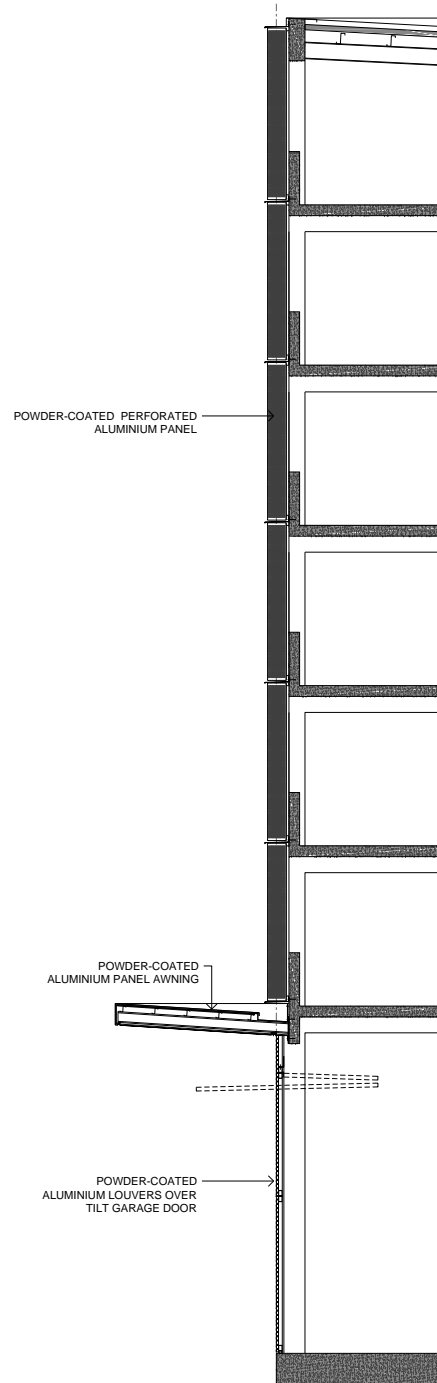
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**THROUGH PK & DBSF**

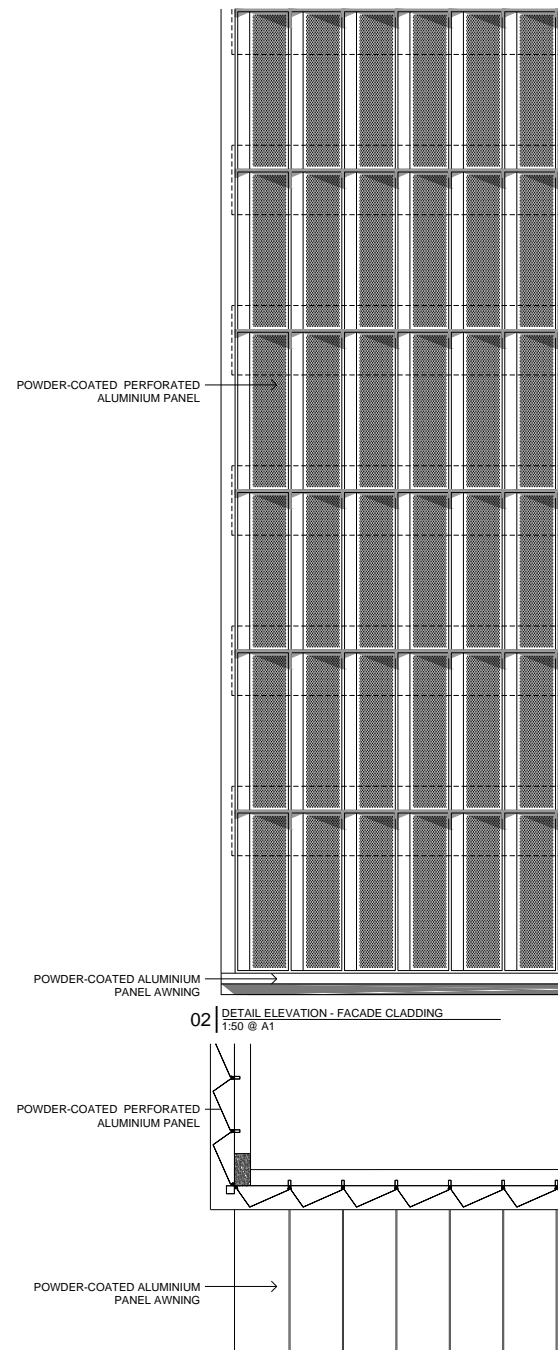
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**DA032**





01 | DETAIL SECTION - BORROWAY STREET FACADE  
1:50 @ A1



03 | DETAIL PLAN - BORROWWAY STREET FACADE  
1:50 @ A1

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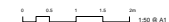
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PROJECT

16105

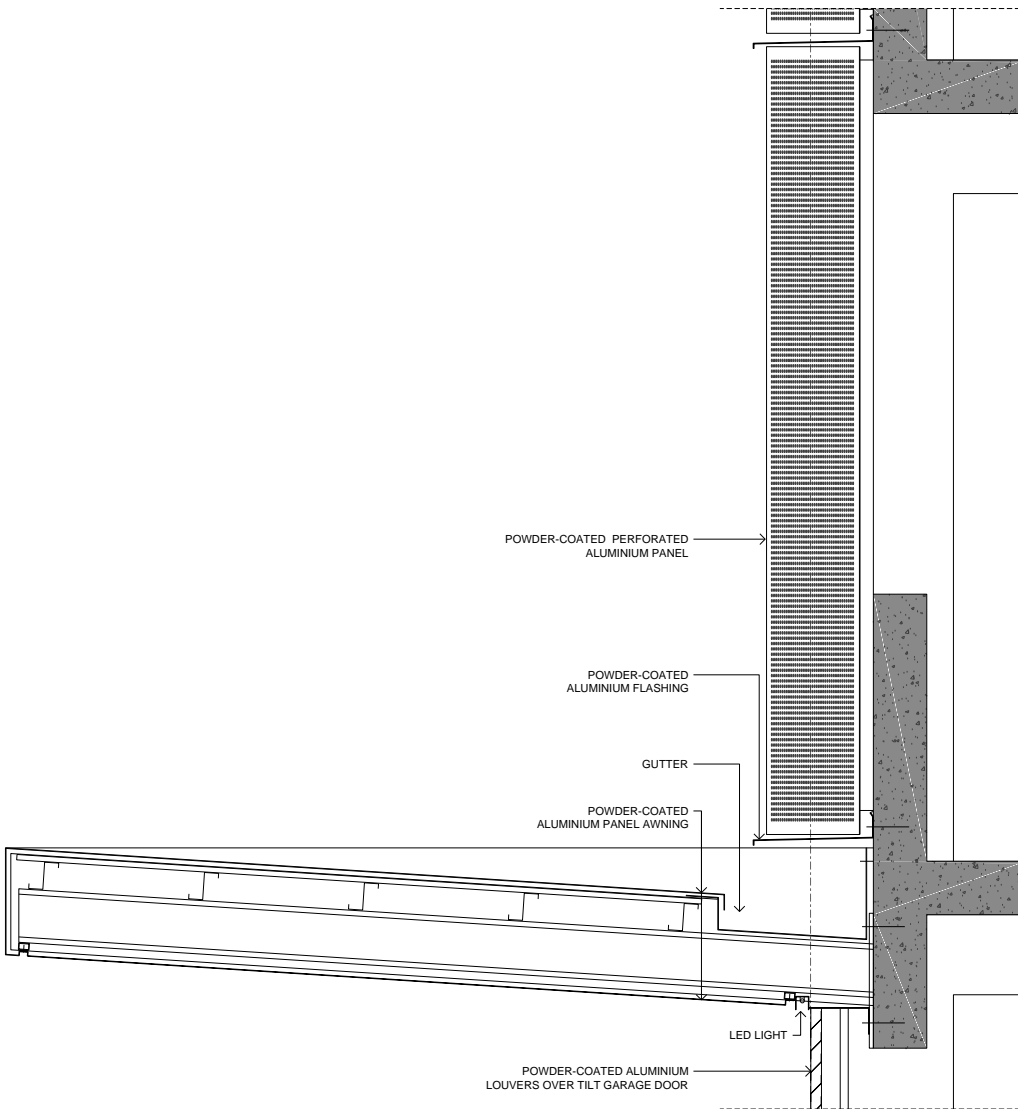
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Wentworth Point, Sydney

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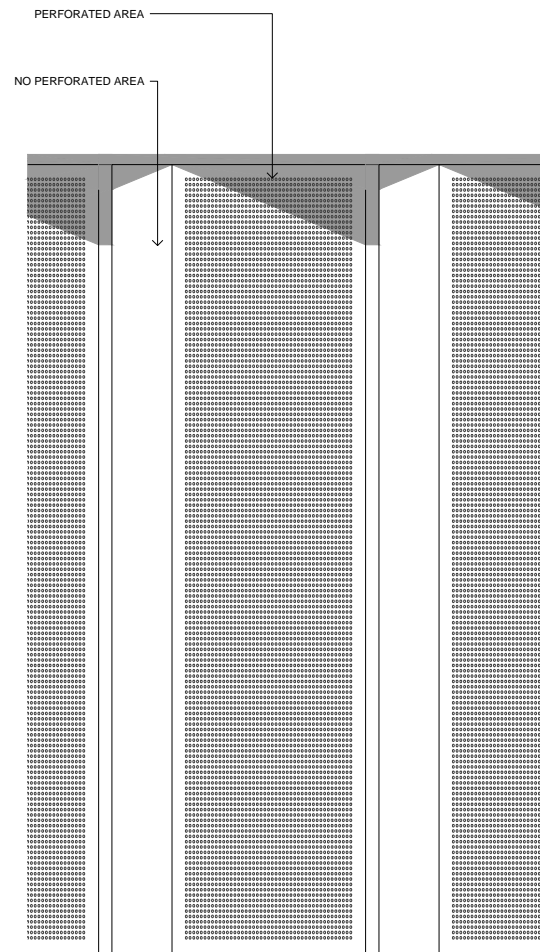
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NUMBER

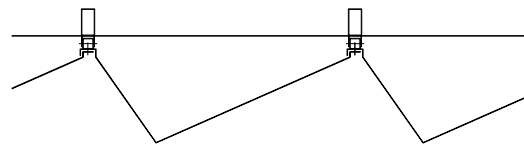
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01 | DETAIL SECTION - BORROWWAY STREET FACADE & AWNING  
1:10 @ A1



02 | DETAIL ELEVATION - BORROWWAY STREET FACADE PANEL  
1:10 @ A1



03 | DETAIL PLAN - BORROWWAY STREET FACADE PANEL  
1:10 @ A1

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0 0.5 1 1.5 2m  
1:50 @ A1

PROJECT  
16105  
DRY BOAT STORAGE  
FACILITY  
Wentworth Point, Sydney

TITLE  
DETAILS - FACADE

NUMBER

DA042

Room / Area Name	GFA m <sup>2</sup>	Notes
------------------	--------------------	-------

## DBSF

## PARKING BUILDING

RETAIL

LEVEL 1

## RETAIL

<b>TOTAL GFA</b>	4,980 m <sup>2</sup>	
------------------	----------------------	--

## BOAT STORAGE

Storage Level	North	South
---------------	-------	-------

## SIGNAGE

Sign Number	Location	Area	Dimension
Sign 1	S-W Elevation	14.4m <sup>2</sup>	6.4 x 2.25m
Sign 2	S-E Elevation	22.4m <sup>2</sup>	8.0 x 2.8m

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PROJECT

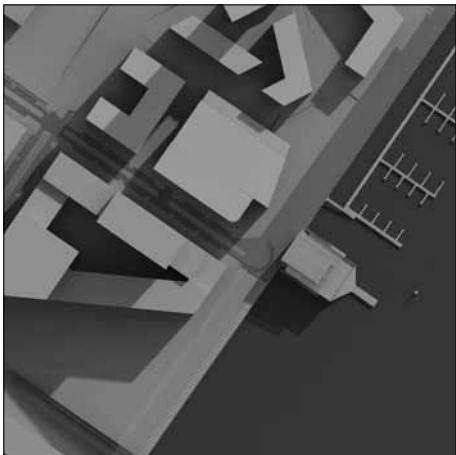
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**DRY BOAT STORAGE FACILITY**  
Wentworth Point, Sydney

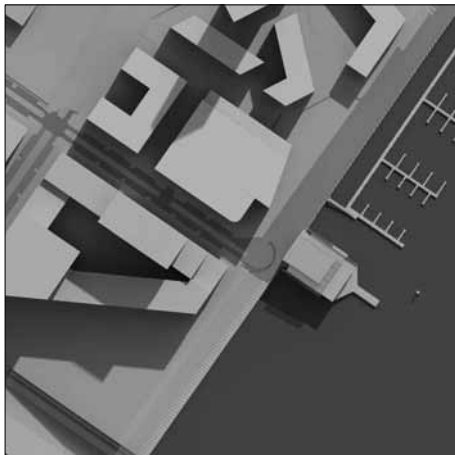
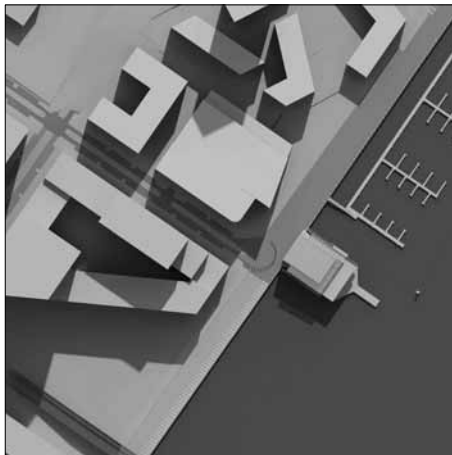
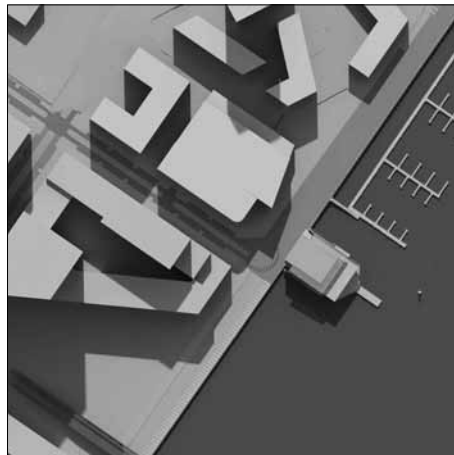
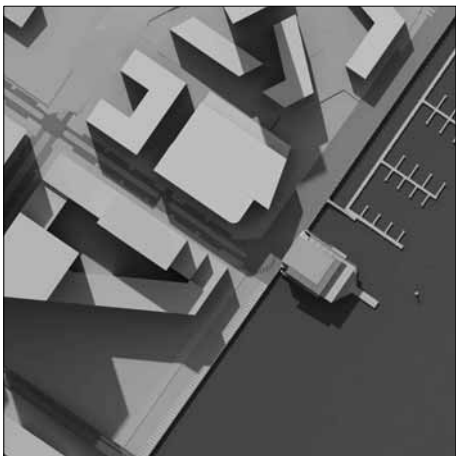
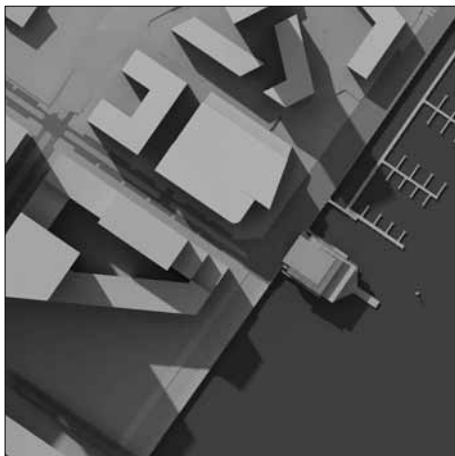
TITLE  
**AREA SCHEDULE**

NUMBER

DA051



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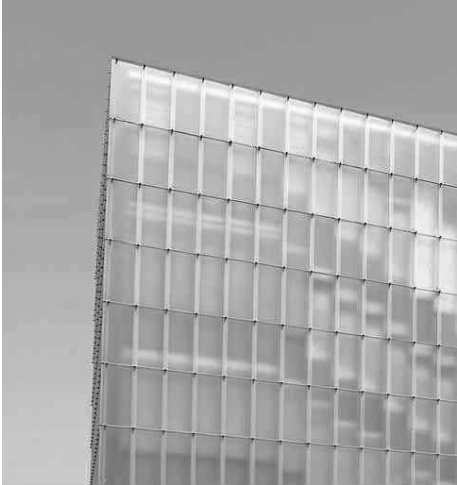
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NTS03 | JUNE 21 | 11:00AM  
NTS04 | JUNE 21 | 12:00PM  
NTS05 | JUNE 21 | 1:00PM  
NTS

06 | JUNE 21 | 2:00PM  
NTS

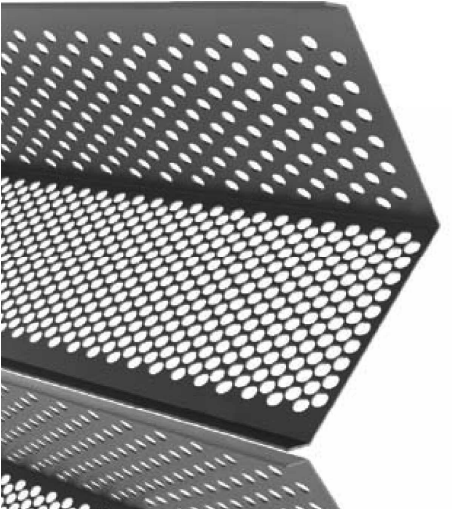
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NTS

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DA061



OPAQUE GLAZING  
GL-02



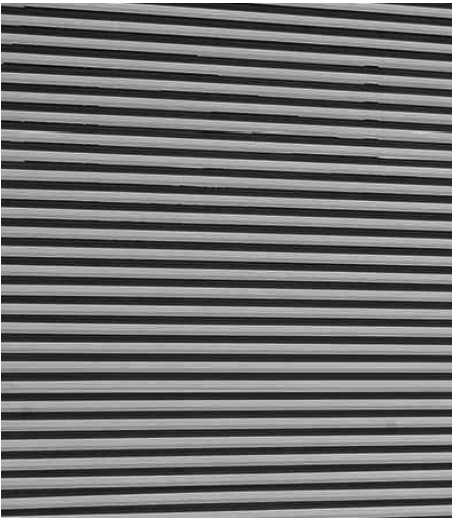
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PAP-01



NATURAL FINISH CONCRETE  
CONC-01



CLEAR GLAZING PANELS / DOORS  
GLS-01



POWDER-COATED ALUMINIUM LOUVERS  
LVR-01

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PROJECT

16105

DRY BOAT STORAGE FACILITY

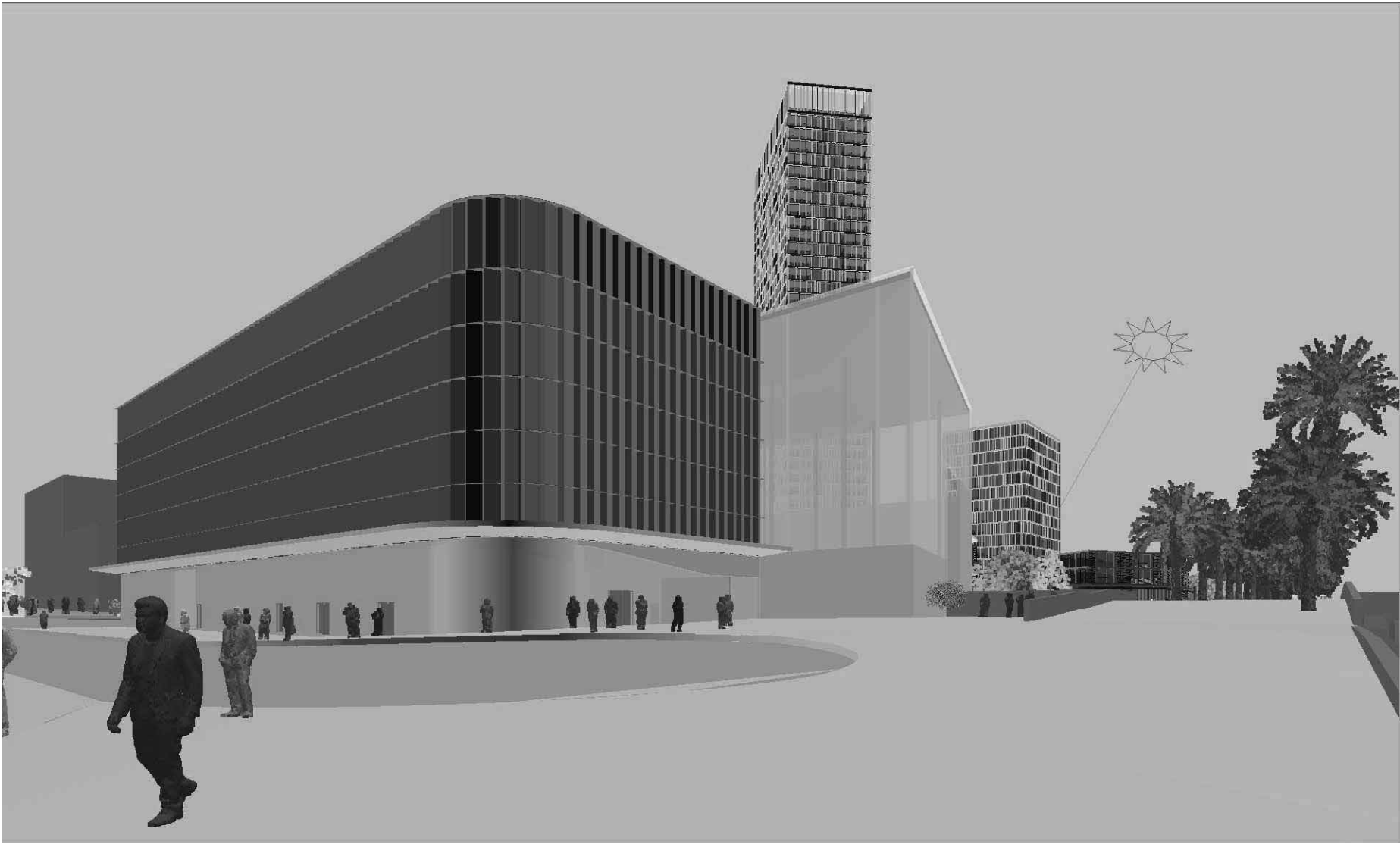
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TITLE

EXTERNAL MATERIALS PALETTE

NUMBER

DA071



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NTS

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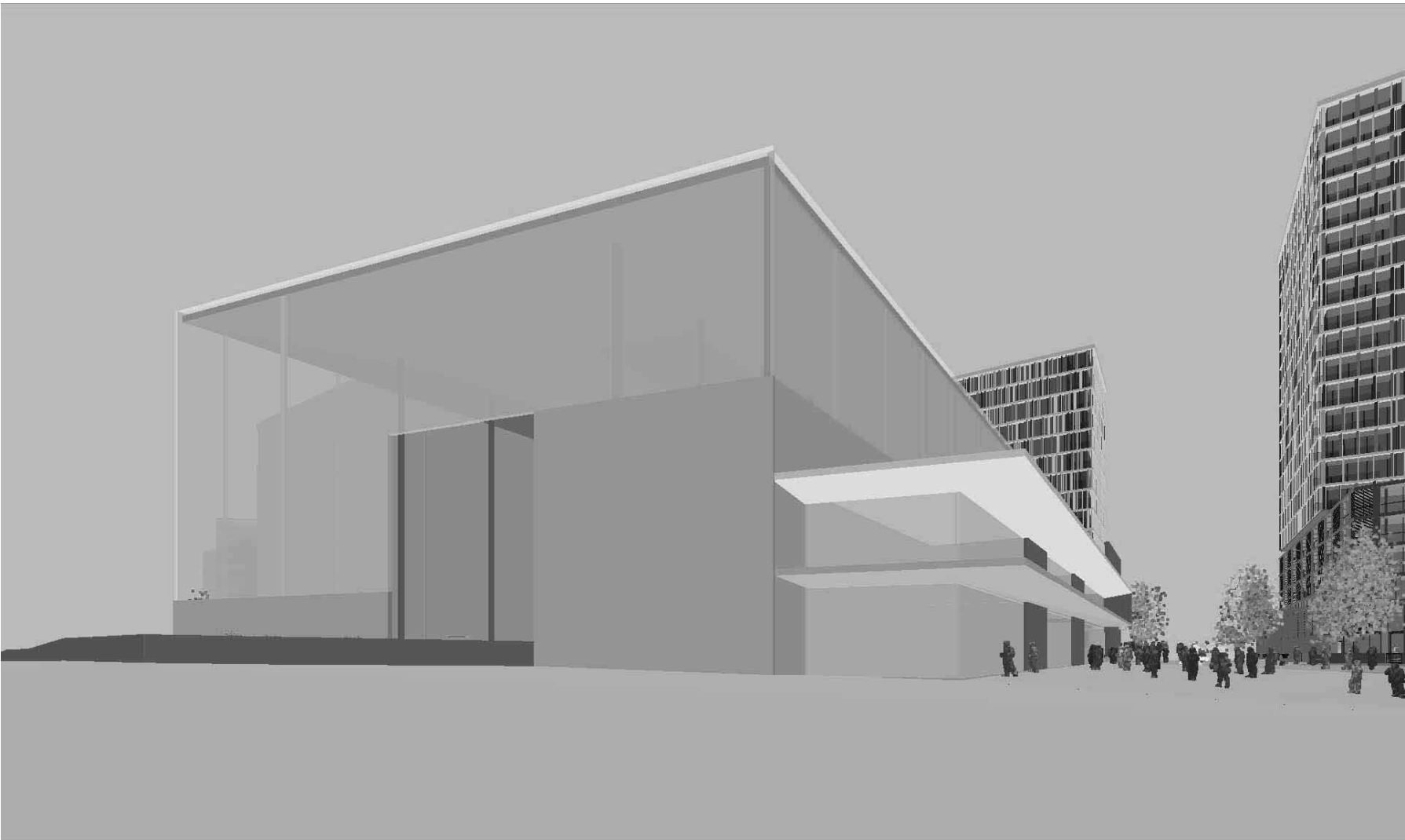
PROJECT  
16105  
**DRY BOAT STORAGE  
FACILITY**  
Wentworth Point, Sydney

TITLE  
**PHOTOMONTAGE 1**

NUMBER  
**DA101**

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01 | DBSF VIEW  
NTS

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PROJECT

16105

**DRY BOAT STORAGE FACILITY**

Wentworth Point, Sydney

TITLE

**PHOTOMONTAGE 2**

NUMBER

**DA102**









# BURROWAY ROAD PRECINCT WENTWORTH POINT

DRY BOAT STORAGE FACILITY - LANDSCAPE DA

REV F  
FEB 2018

context

Prepared for



Roads and Maritime Services  
Locked Bag 5100, Camperdown  
NSW 1450

Prepared by



52-58 William Street East Sydney NSW 2011  
PO Box A866 Sydney South NSW 1235  
T. 8244 8900 F. 8244 8988 E. [context@context.net.au](mailto:context@context.net.au)

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4	03.2	Public Transport + Connectivity
5	03.3	Proposed Levels
6	04	DA Location Plan
7	04.1	DA Landscape Plan
8	04.2	Detail Landscape Plan
9	04.3	Landscape Sections
10	04.4	Pedestrian Link Detail Plan
11	04.5	Landscape Character Images
12	04.6	Materials Palette
13	05	Indicative Plant Schedule and Images
13	05	Plant Schedule
14	06	Additional Plans
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	0.6.1	Activation Plan

# 01 Design Statement

## BURROWAY PRECINCT LANDSCAPE VISION

The public plazas, promenades and streetscapes which form the public domain for the Burroway Precinct form part of a greater open space network connecting passive and active public recreation spaces across Wentworth Point.

While the adjacent Wentworth Point Peninsula Park will be distinguished by its naturalistic landscape setting and materials, the Maritime Plaza within the Burroway Precinct and foreshore promenade form an urban waterfront, with street frontages and public domain edges activated by retail and cafés.

Various landscape treatments along the water's edge (planted rock embankments, sea walls, board walks, viewing decks) will conserve the foreshore, while protecting and interpreting the site's heritage and natural features. Each proposed treatment activates the foreshore for residents and Peninsula Park users through the inclusion of passive recreation opportunities, framed views, and spaces for retreat.

Environmental initiatives, including provision for the management and treatment of storm-water runoff, reinstatement of mangrove communities, and the reinforcement of biodiversity corridors to enhance the performance, sustainability, and ecological significance of Peninsula Park.

Wentworth Point Peninsula Park will provide a dynamic, inviting, and sensitive public space for users, while forming an iconic addition to the Parramatta River open space network. The Park will provide residents and commuters with a range of experiences within a memorable space, capitalising upon the natural features of the existing landscape setting.

## LANDSCAPE OBJECTIVES / PRINCIPLES

The landscape concept plan has been guided by the following design principles and strategies:

- Create a high quality, memorable landscape space which will be embraced by the local community;
- Consider impact of the site to the streetscape and respect the existing urban fabric;
- Provide opportunities for the square to be activated by various uses including;
- Create a respectful and appropriate setting for both proposed and existing buildings;
- Develop a hierarchy of spaces that responds to site planning considerations such as safety, pedestrian circulation, activation, clear way finding and climate;
- Ensure accessibility for all within a safe a secure public domain;
- Consider on-going maintenance / sustainability in the selection of both hardworks and planting materials;
- Incorporate WSUD and ecological initiatives
- Water edge treatments
- Interpret the natural setting and river front location to reinforce the site's unique identity.

## DRY BOAT STORAGE PUBLIC DOMAIN

The public domain areas surrounding the dry boat storage building respond to the particular nature of the building and the activities related to it. The canal connecting the building to the waterfront and the bridge over it, are envisioned to become a focal point for the wider community. Viewing platforms have been provided alongside the canal to enable people to watch the boats' coming and going.

On the northern side of the canal, al-fresco waterfront dining areas are provided under a grid of shading palms, and a pedestrianised retail "street" is accommodated in the building's northern façade.

## ADJACENT LANDSCAPE CHARACTER TYPES

The landscape design comprises of a number of key integrated landscape areas:

- Maritime Plaza Foreshore Promenade and Pedestrian Bridge
- Traffic and Pedestrian Laneway
- Rowing Club and Dry Boat Storage Forecourt

## Maritime Plaza Foreshore Promenade and Pedestrian Bridge

The proposal for the Wentworth Point Maritime Precinct working areas is for a hard edge treatment that will cater for the functional requirements of the space, including vehicular and pedestrian access, while integrating al fresco dining spaces and lawn areas. The hard edge treatment creates a formal water edge, providing a more urban feel to the eastern edge of the precinct.

The high quality paved promenade walkway and timber bridge will include feature paving bands, large format maritime timber sleepers, complimentary and feature lighting.

This edge treatment will complement the existing treatment across the bay at Rhodes, creating a reference point and homogeneous waterfront aesthetic to the Homebush Bay region.

The maritime plaza will provide raised concrete edges for seating and will be defined by an avenue of large Port Jackson Fig trees, and a grid of Cabbage Tree palms, establishing a formal landscape statement and spaces of refuge for users. The plaza will incorporate cafe and Alfresco dining spaces, along with terraced lawn spaces for community gatherings.

## Pedestrian Connectivity

The Promenade will form part of a larger network connecting Newington Nature Reserve, Millennium Parkland, Sydney Olympic Park and Rhodes via the newly constructed Bennelong Bridge.

## Dry Boat Storage Facility Viewing Deck and Forecourt

The area of waterfront promenade adjacent to the proposed Rowing Club facility will become an open forecourt for the building, linking to Maritime Plaza via the Promenade

pedestrian bridge which enables operation of the Dry Boat Storage Facility.

Amenity is provided adjacent to the proposed cafe/kiosk within the Rowing Club building with integrated fixed seating elements.

Viewing opportunities have been provided on either side of the loading canal, with passive seating and turfing areas away from the active building frontages and alfresco areas.

Low ground cover and tree planting is proposed to the eastern building edge to soften the lower portion of the facade and provide shade opportunities within the passive forecourt area.

## Activated Northern Building Edge

The ground floor of the northern building facade is nominated for retail opportunities. This has been reflected in the landscape treatment for this area, with a lease-able paved zone provided suitable for alfresco dining using moveable cafe style furniture. Shade is provided via palm tree planting (*Livistona australis*), which forms part of a larger grid of palms within the adjacent Maritime Plaza.

## WATER SENSITIVE URBAN DESIGN

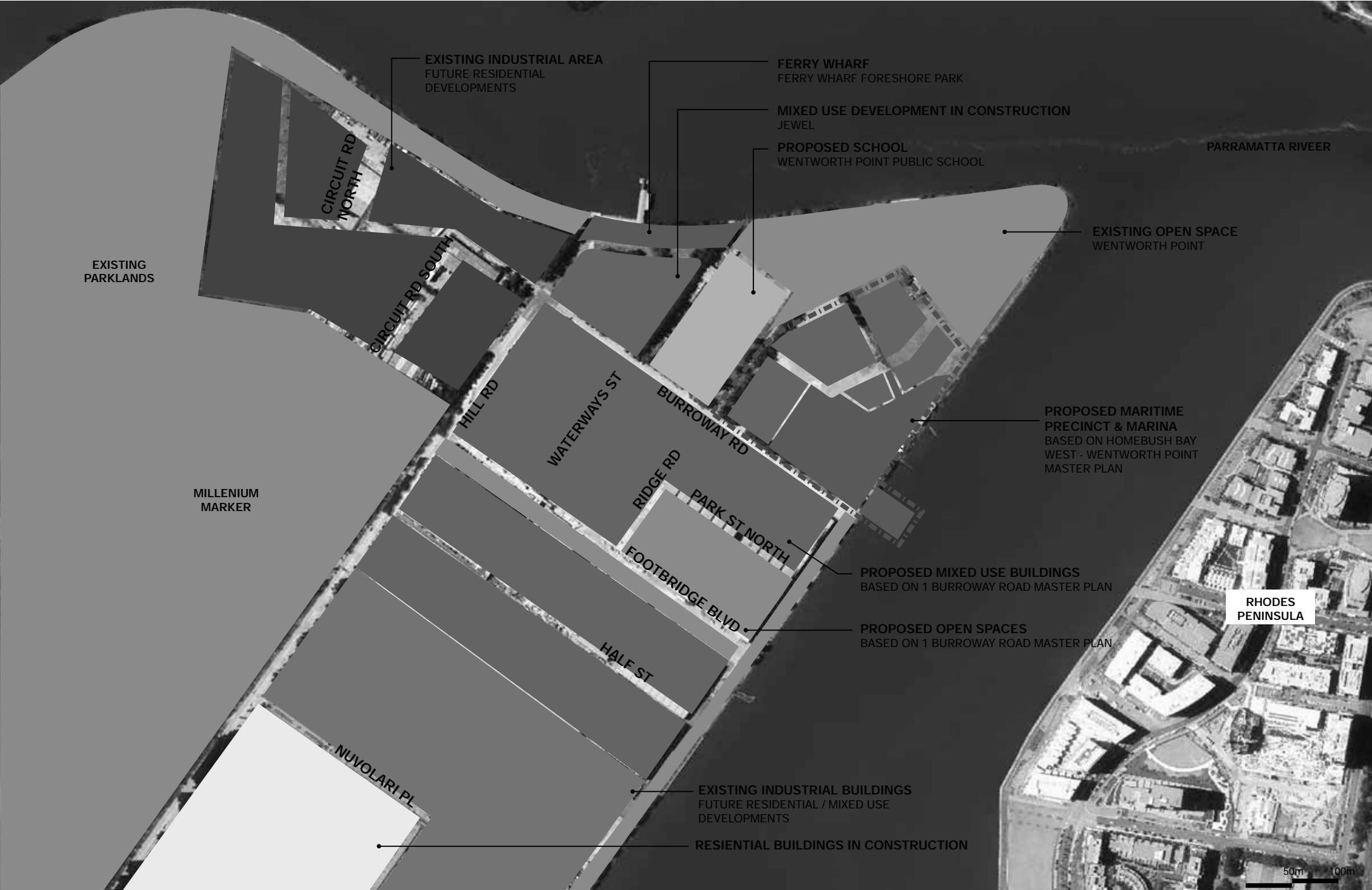
All tree pits located on streets, promenade and within the plaza are designed to take localised pavement runoff. This will assist in slowing and cleaning storm-water before it enters the harbour and will provide passive irrigation to trees and palms.

Lawn areas within the Maritime Plaza are designed as bio-infiltration areas to receive the Plaza's storm-water runoff which will assist in slowing and cleaning storm-water before it enters the harbour and will provide passive irrigation of the trees and lawns.





03.1 Site Analysis - Land Use





03.2 Site Analysis - Public Transport + Connectivity

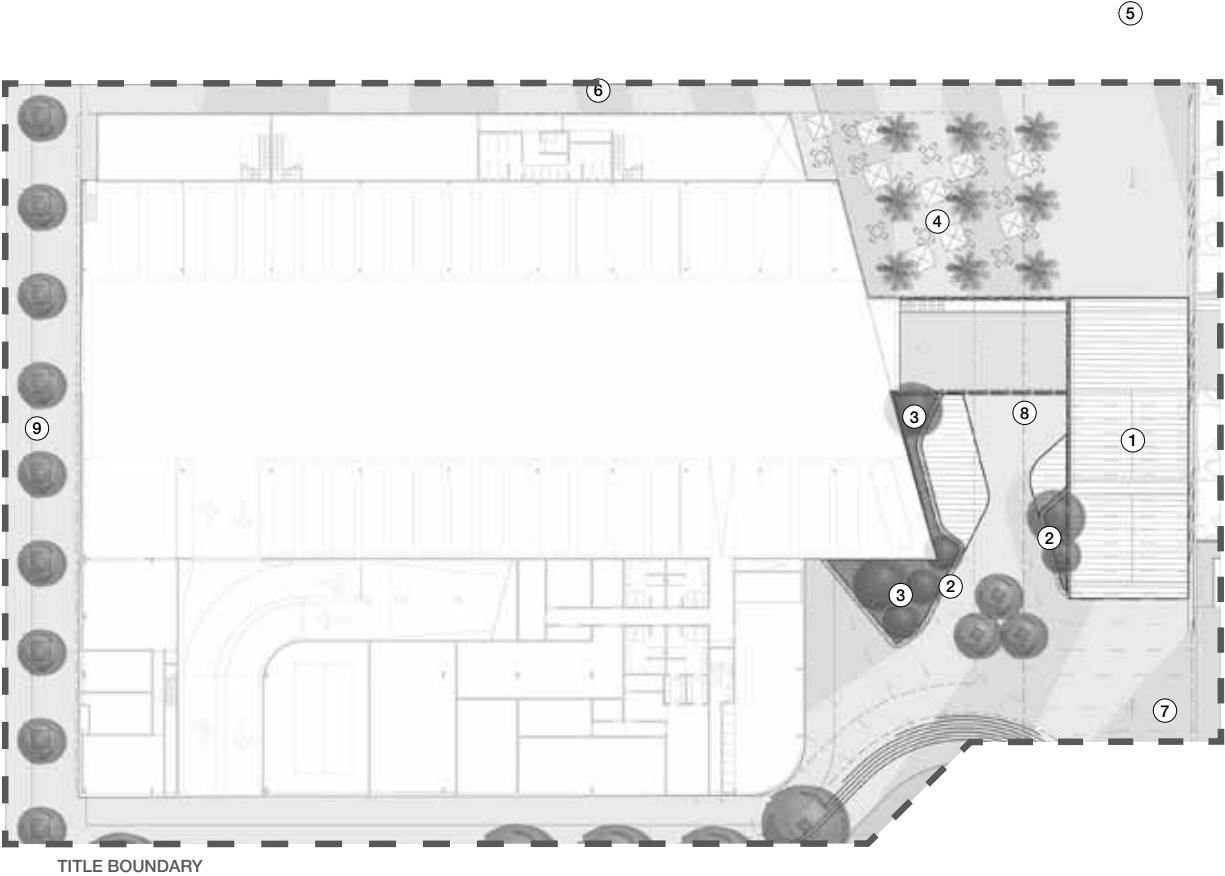


03.3 Site Analysis - Proposed Levels









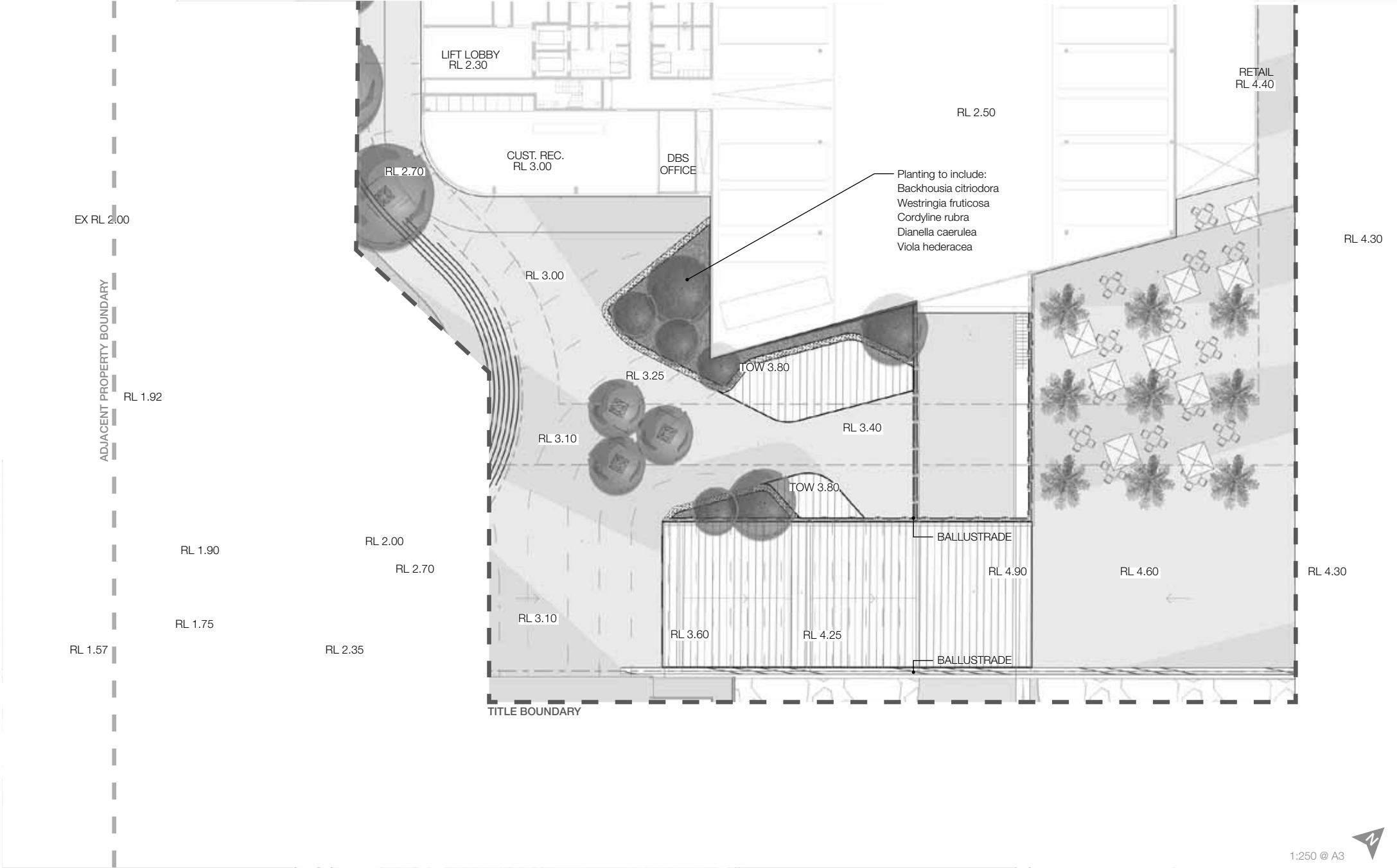
Legend

- 01 1 in 14 Ramped pedestrian bridge
- 02 450mm high seat walls
- 03 Planting to soften concrete building facade
- 04 Alfresco dining under Palms (Livistona)
- 05 Promenade
- 06 Alfresco dining adjacent to Cafe (lease area to be determined)
- 07 Rowing Club forecourt
- 08 DBSF Viewing deck
- 09 Pedestrian Link Walkway
- Paving
- Timber Boardwalk
- Precast Seating
- Planting
- Shade Trees
- Feature Plants
- Alfresco Dining

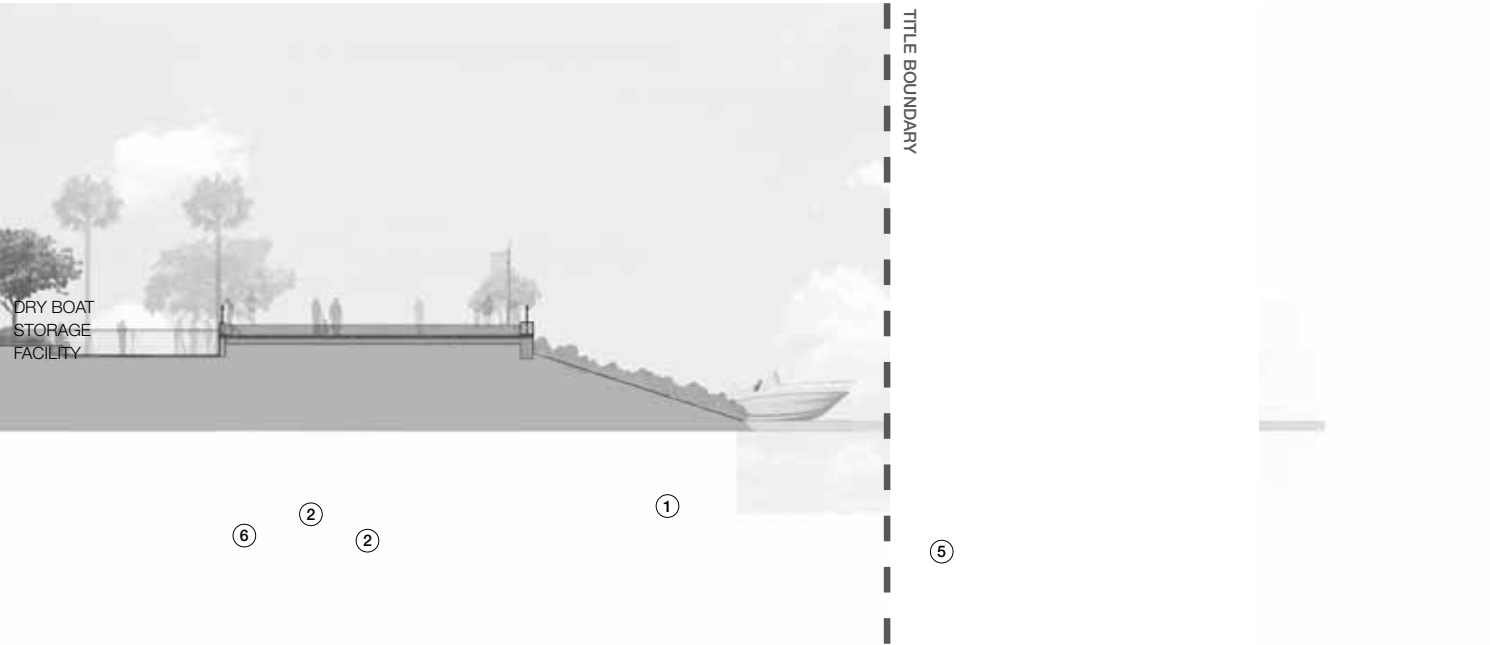
NOTE: For temporary arrangement of Pedestrian Laneway to rear of DBS refer to Alignment Plans provided



04.2 Detail Landscape Plan



04.3 Landscape Sections



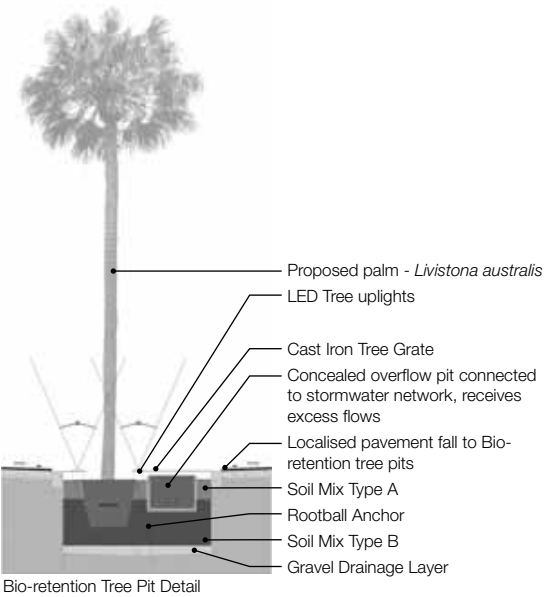
Section A - Dry Boat Store to Marina



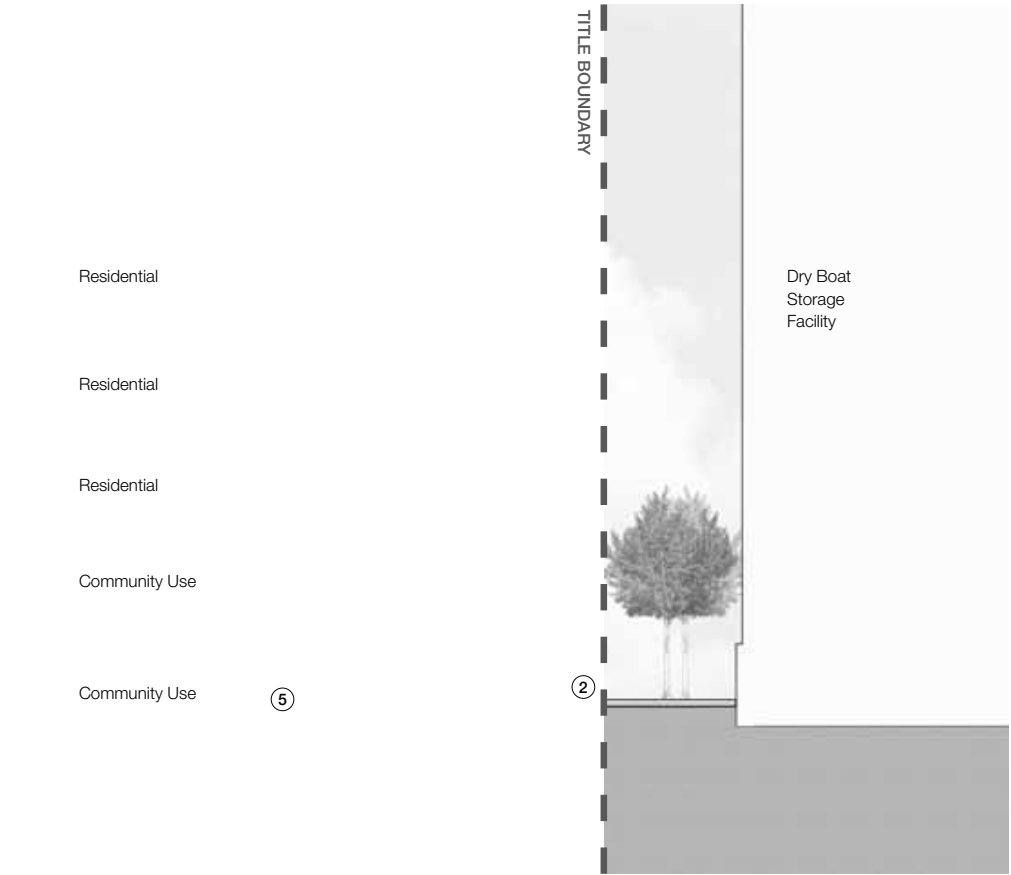
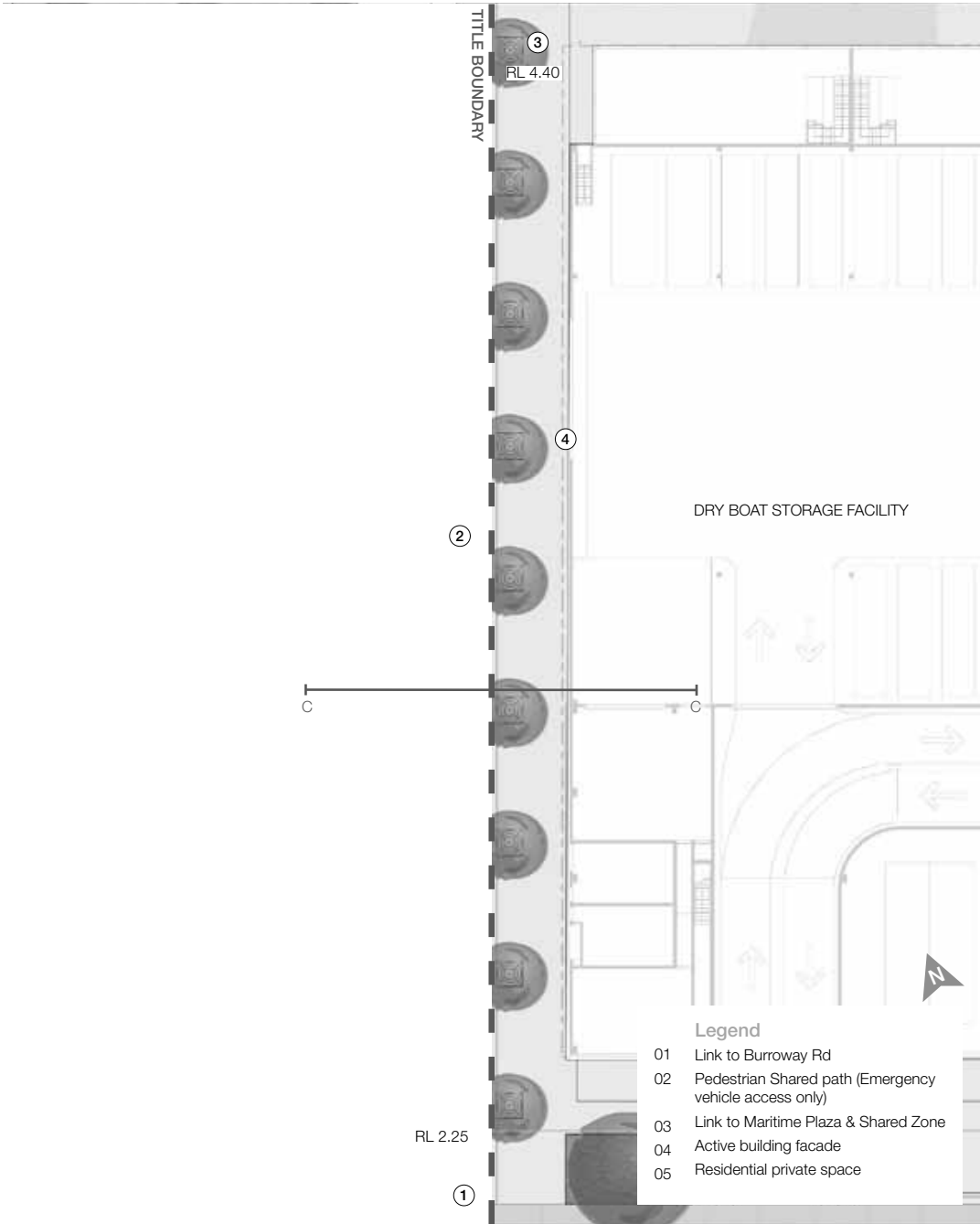
- Legend
- 01 Pedestrian Bridge
  - 02 Viewing Deck
  - 03 Grid of Palms (*Livisona australis*) with outdoor dining
  - 04 Maritime Plaza / Foreshore Promenade
  - 05 Revetment Wall
  - 06 Raised Planters with Concrete and Timber Seat Walls



Section B - Foreshore Promenade



04.4 Pedestrian Link Detail Plan - South



Section C - Pedestrian Link + One way road behind Dry Boat Storage Facility



Key Plan



Pedestrian Link + Outdoor Dining



Active Pedestrian Link

04.5 Landscape Character Images - Viewing Deck and Pedestrian Bridge



Waterfront Character



Pedestrian Bridge



Viewing Deck



Timber Decking










Seat Walls + Stairs



Seat Walls

## 04.6 Materials Palette

In reference to section 5.2 of the City of Parramatta Public Domain Guidelines the materials respond to different characters and identities in particular locations through specially designed elements. A maritime pallette has been utilised to diffentiate the precinct from the CBD and Town Centres. The pallette aims to create a cohesive waterfront experience along the entirety of the promenade.

Item	Material/Colour	Finish	Precedent Image
Granite Paver a) 450mm x 900mm b) 450mm x 600mm c) 450mm x 300mm	Austral Black	Exfoliated	
Juparana Paver a) 450mm x 900mm b) 450mm x 600mm c) 450mm x 300mm	Granite	Exfoliated	
Austral Verde Paver a) 450mm x 900mm b) 450mm x 600mm c) 450mm x 300mm	Granite	Exfoliated	
Timber Boardwalk	Hardwood		
Timber Promenade Seating			
Precast Seating	Precast concrete and timber C : Off-White Concrete O: 2% White Oxide A: Feldspar Aggregate	Acid etch	
Seat Street Furniture Australia Classic Plaza Seat CMP1	Eco-certified Jarrah Hard-wood Oiled Aluminium	Oiled Timber Powder Coated	

Drinking Fountain Street Furniture Australia Arqua Fountain DF4-STD	Stainless Steel (Marine Grade)	Stainless 304 Powder Coated	
Bin Enclosure Street Furniture Australia Frame Bin Enclosure WBE-M120-BAT	Premium Hardwood Aluminium	Oiled Powder Coated	
Bollards Street Furniture Australia Wide Bollards B3F	High-strength aluminium	Powder Coated	
Bike Racks Street Furniture Australia Semi Bike BST03	Wide U-shaped bike stand that wholly supports a bicycle at two points. Stainless Steel marine grade	Stainless Steel No. 4 Finish (304 or 316)	
Tree Grates Street Furniture Australia Silva Grate GR2	Cast Aluminium	Powder coated	
Balustrade	Stainless Steel	Stainless Steel No. 4 Finish (304 or 316)	



PLANTING SCHEDULE

The following list outlines the signature planting for the whole of the Burroway Precinct site and has been established with reference to the Homebush West Council and Auburn Development Control Plan. The proposed planting will have all year round colour, variation and strong defined forms.

Botanical Name	Common Name	Mature Height (m)	Minimum pot size	Spacing
Trees				
<i>Angophora costata</i> *	smooth-barked apple	15 - 25m	100L	as shown
<i>Cupaniopsis anacardioides</i> *	Tuckeroo	10m	100L	as shown
<i>Eucalyptus paniculata</i> *	Grey Ironbark	15 - 30m	100L	as shown
<i>Eucalyptus punctata</i> *	Grey Gum	25 -35m	100L	as shown
<i>Eucalyptus laevis-cornia</i> *	Blue Gum	20 - 30m	100L	as shown
<i>Eucalyptus haemulata</i>	Scribbly Gum	20 - 30m	100L	as shown
<i>Ficus rubiginosa</i>	Port Jackson fig	20m	200L	as shown
<i>Callistemon viminalis</i> *	Weeping Bottlebrush	8m	75 L	as shown
<i>Melaleuca</i> spp.*	Paperbark	2 - 30m	75L	as shown
<i>Cupaniopsis anacardioides</i> *	Tuckeroo	10m	75L	as shown
<i>Corymbia maculata</i> *	Spotted gum	25 -35m	100L	as shown
<i>Livistonia australis</i>	Cabbage Tree Palm	25m	200L	as shown
<i>Backhousia citriodora</i> *	Lemon-scented Backhousia	8 - 15m	100L	as shown
Feature Shrubs and Hedging				
<i>Westringia fruticosa</i> *	Coastal Rosemary	1 - 2m	25L	2/m2
<i>Callistemon 'Little John'</i> *	Dwarf Bottlebrush	0.5m	25L	1/m2
<i>Cordyline rubra</i>	Palm Lily	0.5 - 1.5m	25L	2/m2
<i>Phormium tenax</i> *	Flax lily	0.5 - 1.5m	25L	2/m2
<i>Syzygium (Acmena) smithii</i> Dwarf*	Dwarf Lilly Pilly	3.0m	35L	2/m2
<i>Syzygium australe Elegance</i> *	Compact Lilly Pilly	2.0m	45L	700mm
<i>Syzygium australe Express</i> *	Lilly Pilly Express	4.0m	75L	as shown
Groundcovers / Grasses				
<i>Ajuga reptans</i>	Blue Bungle	0.5m	35L	7/m2
<i>Dianella caerulea</i>	Blue Flax-Lily	0.5m	15L	7/m2
<i>Dietsa robinsoniana</i>	African Iris	0.5m	15L	4/m2
<i>Isolepis nodosa</i>	Knotled Club Rush	0.5m	25L	4/m2
<i>Liriope muscari</i> *	Lilly Turf	0.4m	15L	7/m2
<i>Lomandra longifolia</i> *	Mat Rush	0.5 - 0.7m	5L	4/m2
<i>Trochelospermum jasminoides</i> *	Star Jasmine	-	150ml	400mm
<i>Viola hederaea</i>	Norfolk Violet	-	150ml	250mm
<i>Zoysia tenuifolia</i>	Temple grass	-	150ml	250mm

Note: \* Denotes low water use



*Ficus rubiginosa*



*Livistona australis*



*Cupaniopsis anacardioides*



*Eucalyptus paniculata*



*Callistemon 'Little John'*



*Acmena smithii*



*Syzygium australe*



*Westringia fruticosa*



*Pennisetum alopecuroides*



*Lomandra longifolia*



*Dietsa robinsoniana*

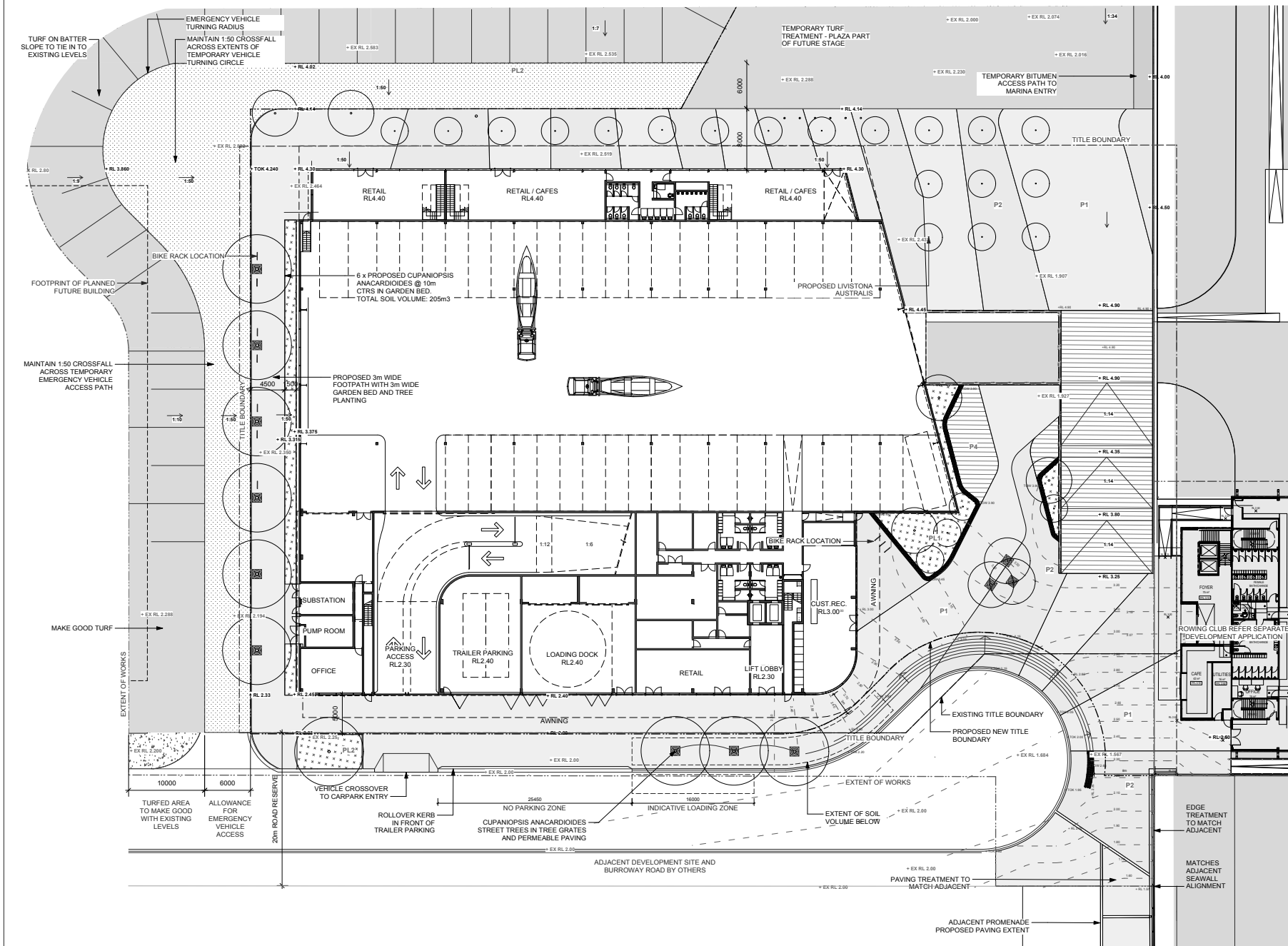


*Liriope muscari*



*Isolepis nodosa*

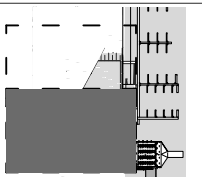




## LEGEND

	TITLE BOUNDARY
	EXTENT OF WORKS
	PROPOSED TREE
	PAVING TYPE 1
	PAVING TYPE 2
	PAVING TYPE 3
	PAVING TYPE 4
	PLANTING TYPE 1 MASS PLANTING
	PLANTING TYPE 2 TURF
	WALL TYPE 1 REFER TO MATERIALS SCHEDULE
	WALL TYPE 2 REFER TO MATERIALS SCHEDULE
	WALL TYPE 3 REFER TO MATERIALS SCHEDULE
	HANDRAIL TYPE 1 REFER TO MATERIALS SCHEDULE

## KEY PLAN



SHEET IN COLOUR - PRINT ALL COPIES IN COLOUR

**NOTE:**  
VARY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS. DIMENSIONS SHOWN TO LARGER SCALES AND THOSE SHOWN TO SMALLER SCALES AND THOSE FOR GENERAL PURPOSES. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE. TOGETHER WITH OTHER AUTHORIZED REQUIREMENTS AND REGULATIONS. DESIGN CHANGES BY OTHER DISCIPLINES HAVE BEEN INCLUDED FOR COORDINATION ONLY. THIS DRAWING AND DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT. © IN CONSULT. 2014.

ISSUE	DESCRIPTION	BY	APPD	DATE
A	Per Client Approval	HP		10/01/17
B	Development Application	HP		12/01/17
C	DRAFT For Review	SM	HP	20/01/18
D	Development Application	SM	HP	20/01/18
E	Development Application - Revised Levels for Council Information	SM	HP	22/01/18
F	Development Application - Revised Levels for Council Information	SM	HP	23/01/18
G	Development Application	SM	HP	04/01/18

NORTH / SCALE

Scale 1:250 @A1



## PROJECT TEAM

LANDSCAPE ARCHITECT	context
PROJECT MANAGER	context
DESIGNER	context
DRAWING	context
CLIENT	context

## LANDSCAPE ARCHITECT

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T: 61 2 8244 8500 F: 61 2 8244 8585  
E: context@context.net.au W: www.context.net.au  
ABN: 14 074 411 288

## CLIENT NAME

ROADS AND MARITIME SERVICES

PROJECT

WENTWORTH POINT - BURROWAY

ROAD PRECINCT

DRY BOAT STORAGE FACILITY

## DRAWING TITLE

PUBLIC DOMAIN ALIGNMENT PLAN

PROJECT

WENTWORTH POINT - BURROWAY

ROAD PRECINCT

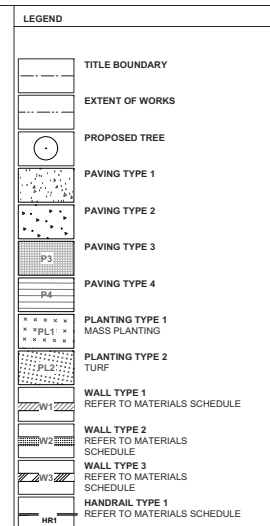
DRY BOAT STORAGE FACILITY

CREATED DATE CHECKED PROJECT STAGE SHEET SIZE

SM 20/10/17 HP DA A1

PROJECT NUMBER DRAWING NUMBER ISSUE

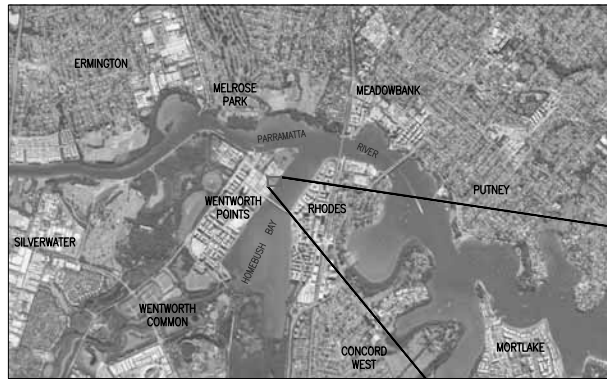
17532 L-2001 G



# WENTWORTH POINT BOAT FACILITY

## BURROWAY ROAD PRECINCT

### CIVIL ENGINEERING DRAWING SET



LOCALITY PLAN

DRAWING LIST TABLE	
DRAWING NUMBER	DRAWING TITLE
C-0-00	COVER SHEET
C-1-01	EROSION AND SEDIMENT CONTROL PLAN
C-1-10	EROSION AND SEDIMENT CONTROL NOTES & DETAILS
C-3-01	GENERAL ARRANGEMENT PLAN
C-3-10	CIVIL DETAILS
C-3-20	BURROWAY ROAD LONGITUDINAL SECTION - NORTH (MC02)
C-3-21	BURROWAY ROAD LONGITUDINAL SECTION - SOUTH (MC02)
C-3-22	TURNING HEAD LONGITUDINAL SECTION - NORTH (MC03)
C-3-25	BURROWAY ROAD CROSS SECTIONS (MC02) - SHEET 1 OF 2
C-3-26	BURROWAY ROAD CROSS SECTIONS (MC02) - SHEET 2 OF 2
C-4-01	PAVEMENT LAYOUT PLAN
C-4-10	PAVEMENT AND JOINTING DETAILS
C-6-01	STORMWATER MANAGEMENT PLAN
C-6-10	STORMWATER LONGSECTIONS
C-6-60	PROPOSED STORMWATER CATCHMENT PLAN



CIVIL WORKS EXTENTS



DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS  
REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE

Rev.	Revision Description	By.	App.	Date	Rev.	Revision Description	By.	App.	Date
1	FOR DEVELOPMENT APPLICATION	MC	CR	20.03.18					
2	FOR DEVELOPMENT APPLICATION	ZJ	CR	22.03.18					

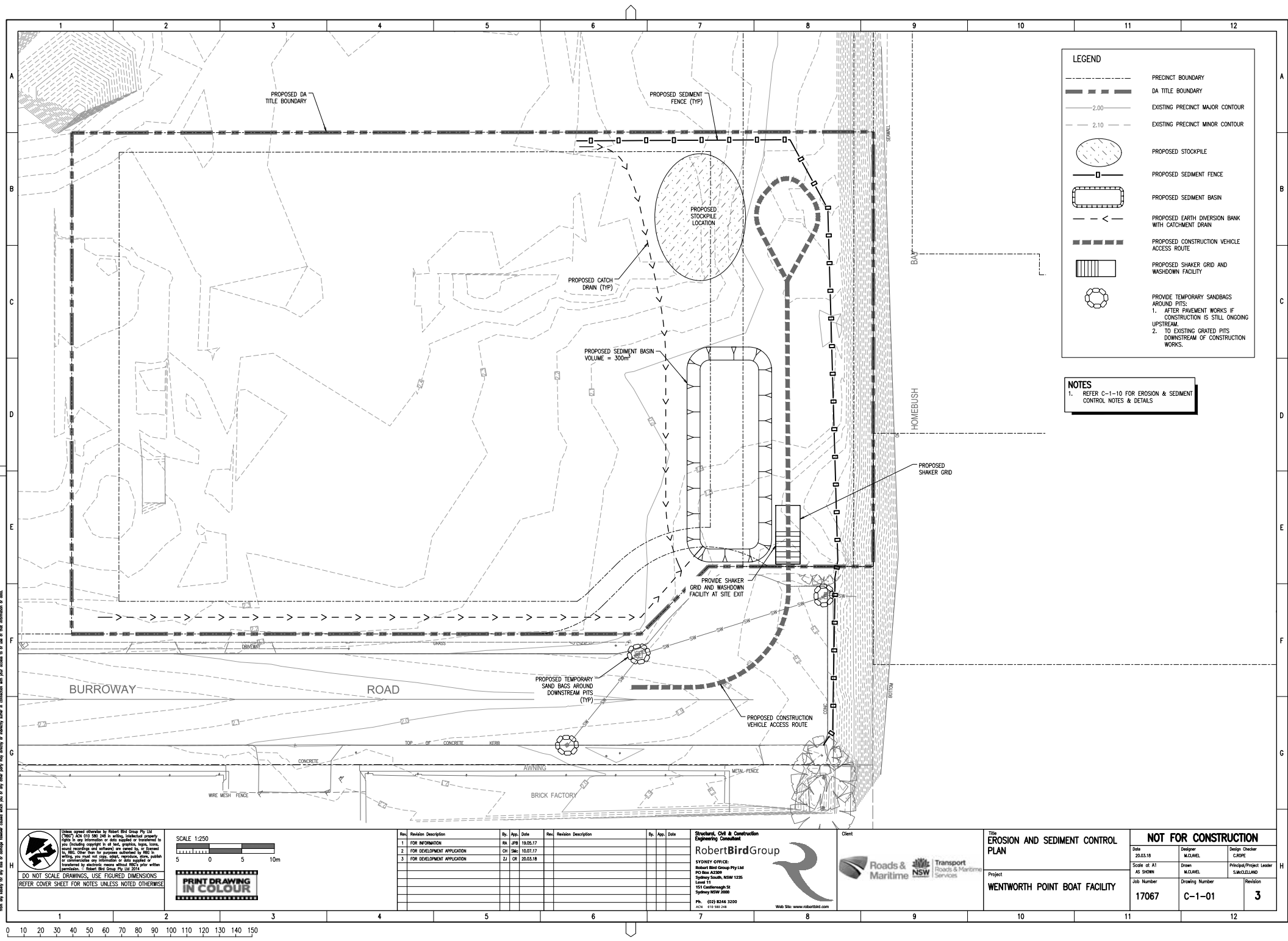
**Structural, Civil & Construction Engineering Consultant**  
**RobertBirdGroup**  
SYDNEY OFFICE:  
Robert Bird Group Pty Ltd  
PO Box A3309  
Sydney South, NSW 1235  
Level 11  
131 Castlereagh St  
Sydney NSW 2000  
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Web Site: www.robertbird.com



**Client**  
**WENTWORTH POINT BOAT FACILITY**

NOT FOR CONSTRUCTION		
Date 22.03.18	Designer Z.JONES	Design Checker C.RDPE
Scale of A1 NOT TO SCALE	Drawn M.CUMIEL	Principal/Project Leader S.MACLELLAND
Job Number 17067	Drawing Number C-0-00	Revision 2

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**LEGEND**

- PRECINCT BOUNDARY
- - - DA TITLE BOUNDARY
- 2.00 --- EXISTING PRECINCT MAJOR CONTOUR
- 2.10 --- EXISTING PRECINCT MINOR CONTOUR
- PROPOSED STOCKPILE
- PROPOSED SEDIMENT FENCE
- PROPOSED SEDIMENT BASIN
- PROPOSED EARTH DIVERSION BANK WITH CATCHMENT DRAIN
- PROPOSED CONSTRUCTION VEHICLE ACCESS ROUTE
- PROPOSED SHAKER GRID AND WASHDOWN FACILITY
- PROVIDE TEMPORARY SANDBAGS AROUND PITS:  
1. AFTER PAVEMENT WORKS IF CONSTRUCTION IS STILL ONGOING UPSTREAM  
2. TO EXISTING GRATED PITS DOWNSTREAM OF CONSTRUCTION WORKS.

**NOTES**  
1. REFER C-1-10 FOR EROSION & SEDIMENT CONTROL NOTES & DETAILS

**DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS**  
REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE

**SCALE 1:250**  
5 0 5 10m

**PRINT DRAWING IN COLOUR**

Rev.	Revision Description	By.	App.	Date	Rev.	Revision Description	By.	App.	Date
1	FOR INFORMATION	BA	JPB	19.05.17					
2	FOR DEVELOPMENT APPLICATION	CH	SM	10.07.17					
3	FOR DEVELOPMENT APPLICATION	BJ	CK	20.03.18					

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**Roads & Maritime NSW**  
Transport  
Roads & Maritime  
Services

**Client**

**WENTWORTH POINT BOAT FACILITY**

NOT FOR CONSTRUCTION			
Date 20.03.18	Designer M.CUMIEL	Design Checker C.ADOE	
Scale of A1 AS SHOWN	Drawn M.CUMIEL	Principal/Project Leader S.MACLELLAN	
Job Number 17067	Drawing Number C-1-01	Revision 3	

# GENERAL NOTES:

- A1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
- A2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE LANDCOM - MANAGING URBAN STORMWATER: SOIL AND CONSTRUCTION, 4th EDITION, MAR 2004.
- A3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

# SEDIMENT BASIN CONSTRUCTION NOTES:

- SB1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
- SB2. FORM A CUT OFF TRENCH UNDER THE CENTRELINE OF THE EMBANKMENT 600mm DEEP AND 1200mm WIDE EXTENDING TO A POINT ON THE GULLY WALL ABOVE THE RISER SILL LEVEL.
- SB3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT TO 95% STANDARD PROCTOR DENSITY.
- SB4. SELECT FILL THAT IS FREE FROM ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
- SB5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING AT LEAST 100mm DEEP TO HELP BOND COMPACTED FILL TO EXISTING SUBSTRATE.
- SB6. SPREAD FILL IN 100mm TO 150mm LAYERS AND COMPACT AT OPTIMUM MOISTURE CONTENT.
- SB7. INSTALL PIPE OUTLET WITH SEEPAGE COLLARS.
- SB8. FORM BATTER GRADES AT 2:1 UPSTREAM AND 3:1 DOWNSTREAM.
- SB9. INSTALL PIPE RISER.
- SB10. CONSTRUCT EMERGENCY SPILLWAY 300mm ABOVE SILL HEIGHT OF RISER PIPE.
- SB11. REHABILITATE STRUCTURE.
- SB12. GEOTEXTILE TO BE REPLACED WITH THE SPECIFIED MATERIAL IF BASIN DOES NOT FREELY DRAIN WITHIN FOUR DAYS.
- SB13. PLACE A "FULL OF SEDIMENT" MARKER TO SHOW WHEN LESS THAN DESIGN CAPACITY OCCURS AND SEDIMENT REMOVAL IS REQUIRED.

# SITE MAINTENANCE NOTES:

- SM1. THE CONTRACTOR WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
  - A) ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT AND NECESSARY REPAIRS.
  - B) REMOVED SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
  - C) REMOVED TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURES HAS BEEN EXCEEDED.
  - D) ENSURE REHABILITATION LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
  - E) CONSTRUCT ADDITIONAL EROSION AND SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS, MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECT TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
  - F) MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
- SM2. THE CONTRACTOR WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
  - A) THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
  - B) THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
  - C) THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
  - D) THE NEED FOR DUST PREVENTION STRATEGIES.
 THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

# SEDIMENT CONTROL NOTES:

- SC1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE CONTRACTOR TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
- SC2. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SC3. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- SC4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
- SC5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
- SC6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- SC7. ACCESS TO SITES SHOULD BE STABILIZED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

# LAND DISTURBANCE NOTES:

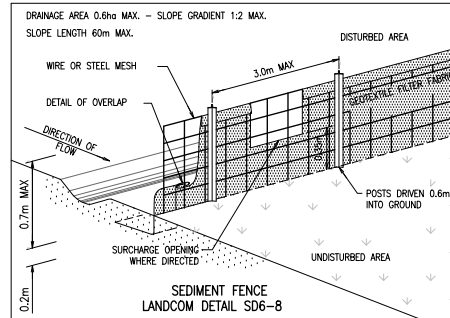
- LD1. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METERS THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNIZE THOSE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH A BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- LD2. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
- LD3. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
  - A) INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
  - B) CONSTRUCT THE STABILISED SITE ACCESS.
  - C) CONSTRUCT DIVERSION DRAINS AS REQUIRED.
  - D) INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
  - E) INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
  - F) CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
  - G) UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
  - H) GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
  - I) REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
- LD4. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.

# SOIL EROSION CONTROL NOTES:

- SE1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE AND NO STEEPER THAN THAT RECOMMENDED IN THE FUTURE GEOTECHNICAL REPORT.
- SE2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
- SE3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- SE4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1% (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
- SE5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
- SE6. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.

# WASTE CONTROL NOTES:

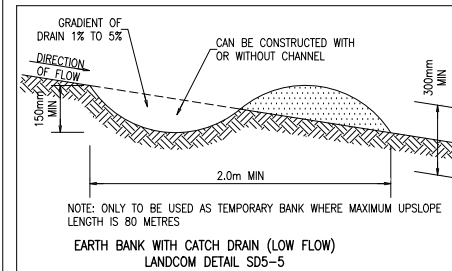
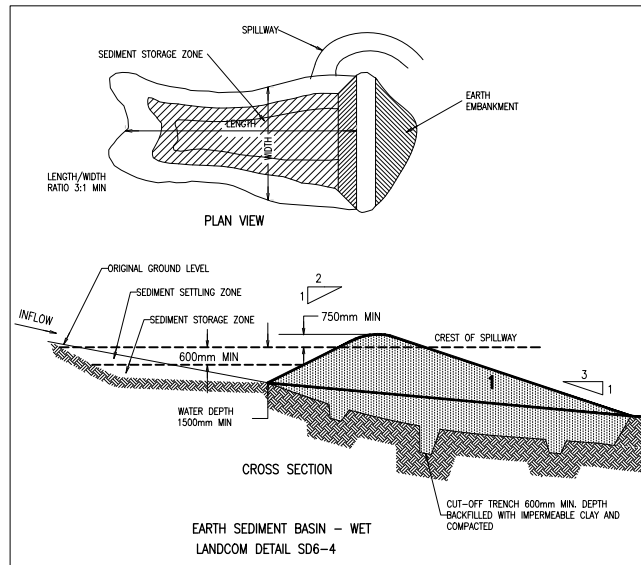
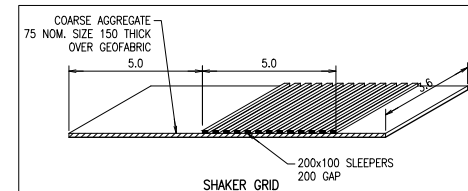
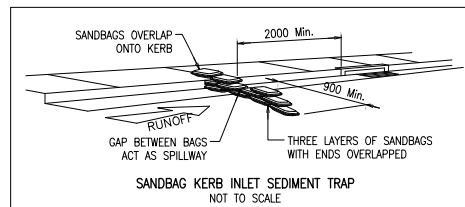
- WC1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE CONTRACTOR.
- WC2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOW PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
- WC3. ALL SITE STAFF AND SUBCONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
- WC4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- WC5. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.



# INSTALLATION

1. EXCAVATE A TRENCH 200mm DEEP.
2. DRIVE POSTS 500-700mm INTO GROUND AT A MAXIMUM SPACING OF 3.0m CENTRES.
3. PLACE AND FIX SUPPORT MESH (FS2) TO POST.
4. LAY BIOM GEOTEXTILE (SF 2000) AGAINST THE SUPPORT MESH AND FIX BY TIE WIRE, STAPLES OR HOG RINGS.
5. PLACE BIOM IN TRENCH AND BACKFILL WITH SOIL.

NOTE: POSITION OF SEDIMENT FENCE AS DIRECTED BY MANAGING CONTRACTOR. FENCE TO REMAIN IN PLACE UNTIL EXCAVATION IS BELOW FOOTPATH LEVEL. PROVIDE 2m x 2m TURTLED AREA ON DOWNSTREAM SIDE OF FENCE AT SURCHARGE OPENINGS.



DO NOT SCALE DIMENSIONS. USE FIGURED DIMENSIONS. REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE.

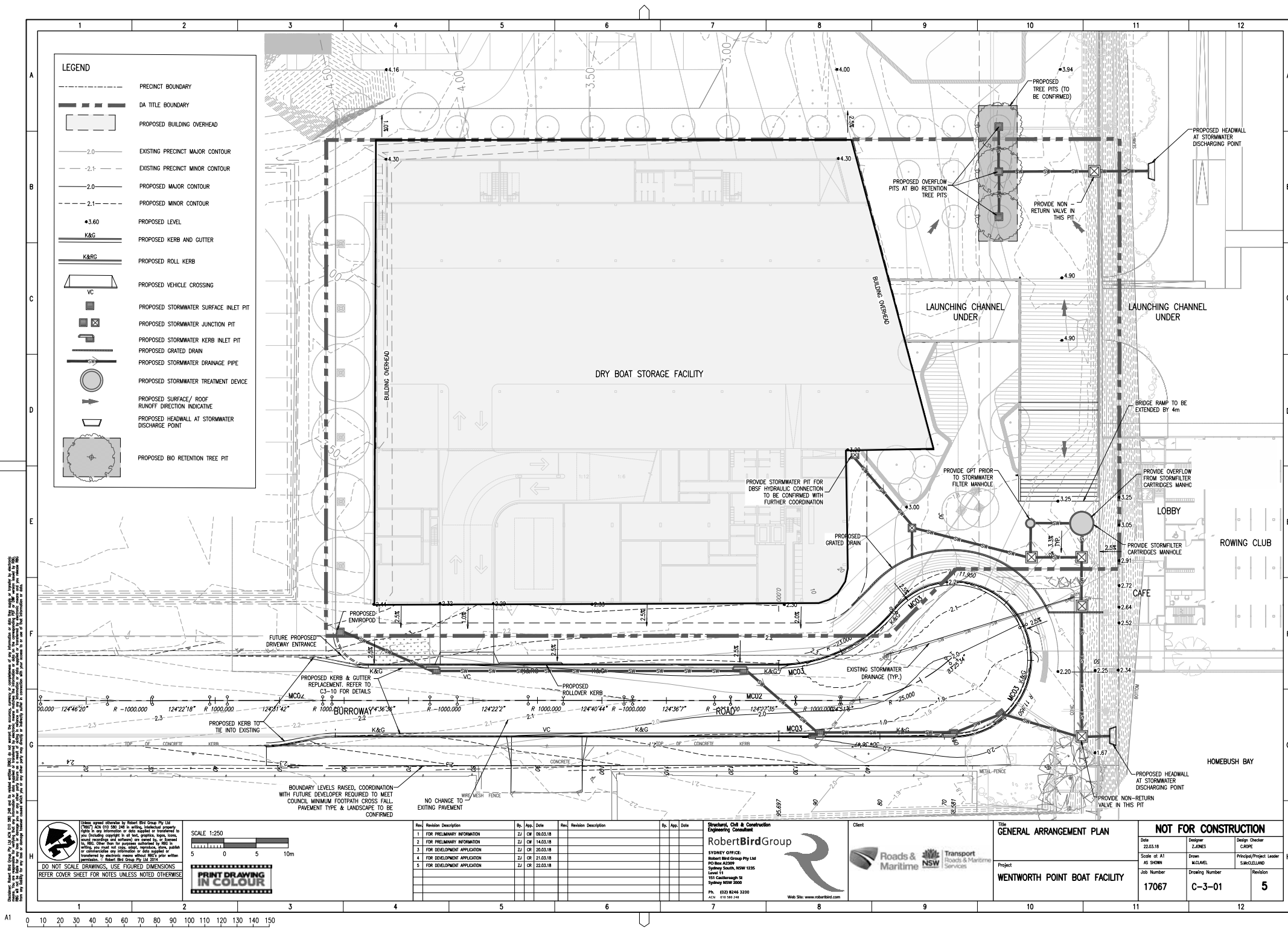
Rev.	Revision Description	By.	App.	Date	Rev.	Revision Description	By.	App.	Date
1	FOR INFORMATION	RA	JPB	19.05.17					
2	FOR DEVELOPMENT APPLICATION	CH	SM	10.07.17					
3	FOR DEVELOPMENT APPLICATION	ZJ	CH	20.03.18					

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Title  
**EROSION AND SEDIMENT CONTROL NOTES & DETAILS**  
 Project  
**WENTWORTH POINT BOAT FACILITY**

NOT FOR CONSTRUCTION			
Date 20.03.18	Designer M.LUMEL	Design Checker C.DRPE	
Scale of A1 NOT TO SCALE	Drawn M.LUMEL	Principal/Project Leader S.MACLELLAND	
Job Number 17067	Drawing Number C-1-10	Revision 3	



**LEGEND**

- PRECINCT BOUNDARY
- - - DA TITLE BOUNDARY
- [ ] PROPOSED BUILDING OVERHEAD
- 2.0- EXISTING PRECINCT MAJOR CONTOUR
- 2.1- EXISTING PRECINCT MINOR CONTOUR
- 2.0- PROPOSED MAJOR CONTOUR
- 2.1- PROPOSED MINOR CONTOUR
- 3.60 PROPOSED LEVEL
- [K&G] PROPOSED KERB AND GUTTER
- [K&RG] PROPOSED ROLL KERB
- [VC] PROPOSED VEHICLE CROSSING
- [ ] PROPOSED STORMWATER SURFACE INLET PIT
- [ ] PROPOSED STORMWATER JUNCTION PIT
- [ ] PROPOSED STORMWATER KERB INLET PIT
- [ ] PROPOSED GRATED DRAIN
- [ ] PROPOSED STORMWATER DRAINAGE PIPE
- [ ] PROPOSED STORMWATER TREATMENT DEVICE
- [ ] PROPOSED SURFACE / ROOF RUNOFF DIRECTION INDICATIVE
- [ ] PROPOSED HEADWALL AT STORMWATER DISCHARGE POINT
- [ ] PROPOSED BIO RETENTION TREE PIT

**DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS**

**REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE**

**SCALE 1:250**

5 0 5 10m

**PRINT DRAWING IN COLOUR**

Rev	Revision Description	By	App.	Date	Rev	Revision Description	By	App.	Date
1	FOR PRELIMINARY INFORMATION	ZJ	CW	09.03.18					
2	FOR PRELIMINARY INFORMATION	ZJ	CW	14.03.18					
3	FOR DEVELOPMENT APPLICATION	ZJ	CR	20.03.18					
4	FOR DEVELOPMENT APPLICATION	ZJ	CR	21.03.18					
5	FOR DEVELOPMENT APPLICATION	ZJ	CR	22.03.18					

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Web Site: www.robertbird.com

Client

**Roads & Maritime NSW**

Transport Roads & Maritime Services

**GENERAL ARRANGEMENT PLAN**

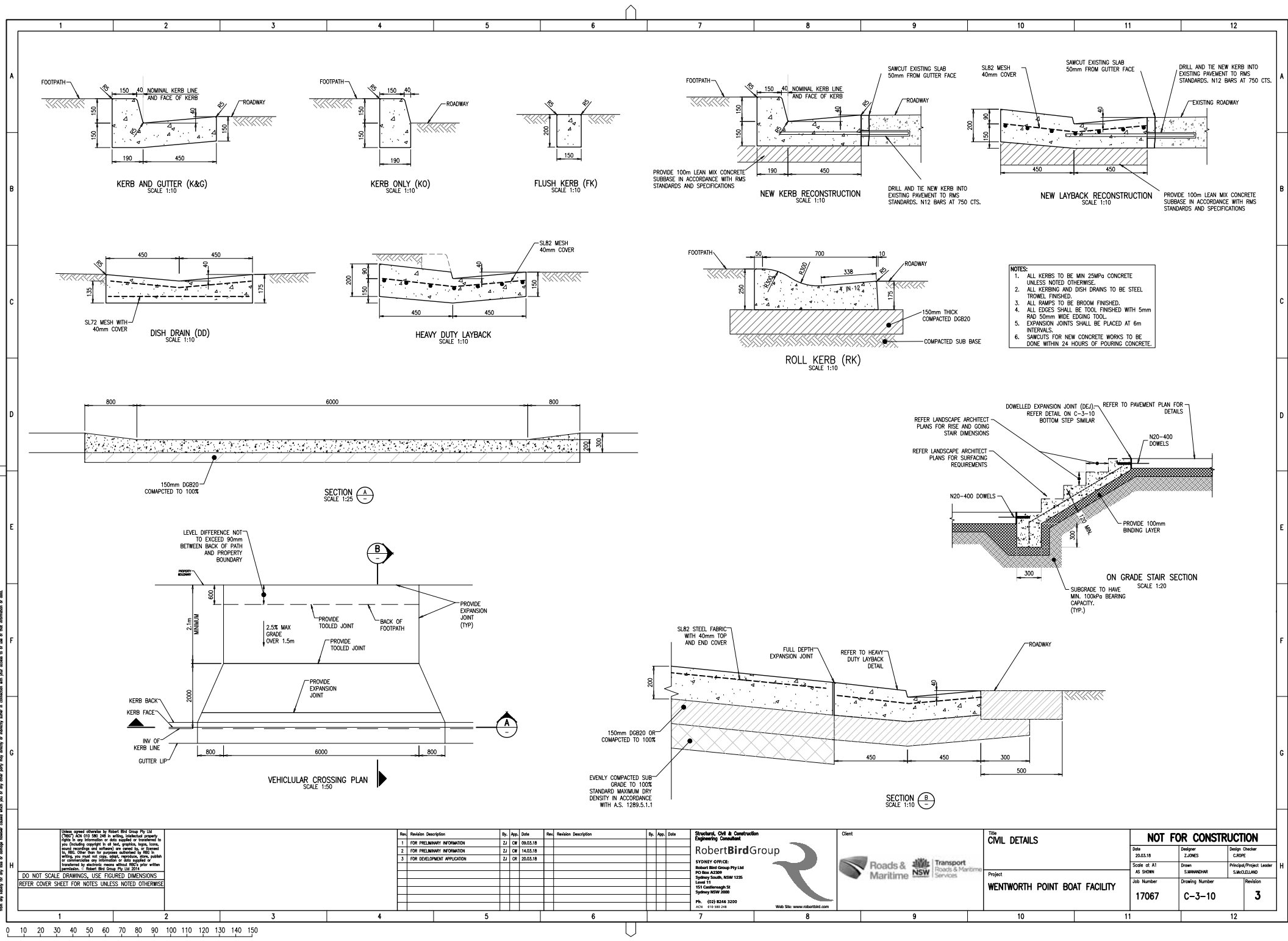
Project

**WENTWORTH POINT BOAT FACILITY**

**NOT FOR CONSTRUCTION**

Date	22.03.18	Designer	ZJONES	Design Checker	CRDPE
Scale of A1	AS SHOWN	Drawn	M.CUMIEL	Principal/Project Leader	S.MACLELLAN
Job Number	17067	Drawing Number	C-3-01	Revision	5

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Title	BURROWAY ROAD CROSS SECTIONS (MC02) – SHEET 1 OF 2
Project	WENTWORTH POINT BOAT FACILITY

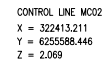
NOT FOR CONSTRUCTION		
Date 22.03.18	Designer M.LIAHEL	Design Checker C.ROPE
Scale of A1 AS SHOWN	Drawn M.LIAHEL	Principal/Project Leader S.McCLELLAND
Job Number <b>17067</b>	Drawing Number <b>C-3-25</b>	Revision <b>2</b>

[illegible]

CHAINAGE 110.000

[illegible]

CHAINAGE 100.000

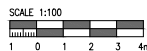


DATUM R.L. 1.00		
DESIGN HEIGHT	2.302	
EXISTING SURFACE	2.173	
OFFSETS	-14.883	

CHAINAGE 120.000

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	Client
--	--------

 Roads & Maritime

**Trans  
Roads  
Service**

Transport  
& Maritime  
affairs

Title  
BURROWAY ROAD CROSS SECTIONS  
(MC02) - SHEET 2 OF 2

(TNO)	Project
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WENTWORTH POINT BOAT FACILITY

WENTWORTH POINT BOAT FACILITY

NOT FOR CONSTRUCTION

Date 22.03.18	Designer M.CLAVEL	Design Checker C.ROPE
Scale: 1:1	Drawn	Principal Officer

Score of 11	Drawn	Principal/Project
AS SHOWN	M. CLAUDEL	S. McCLELLAND

Job Number	Drawing Number	Revision
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17067	C-3-26	2
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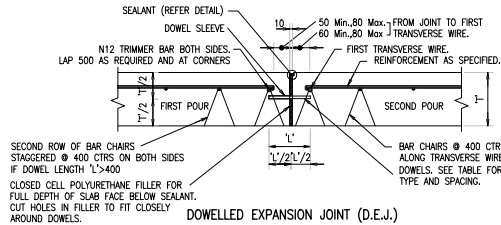


110mm 32MPa CONCRETE REINFORCED WITH SL72 MESH 40mm COVER  
100mm DGB20 BASE COURSE TO 98% STANDARD COMPACTION  
SUBGRADE COMPACTED TO 98% STD. COMPACTION

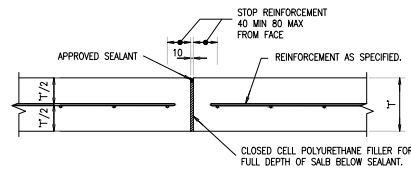
PAVEMENT TYPE 1 AND 2  
PEDESTRAIN FOOTPATH DETAIL  
SCALE 1:10

200mm 32MPa CONCRETE REINFORCED WITH SL82 MESH T&B, 40mm COVER  
100mm DGB20 BASE COURSE 100% STANDARD COMPACTION  
SUBGRADE COMPACTED TO 100% STD. COMPACTION

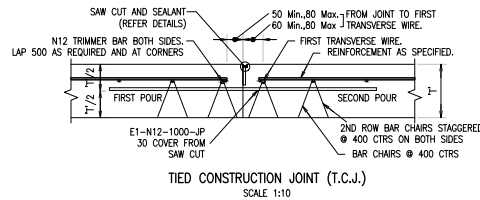
BURROWAY ROAD  
PAVEMENT  
RECONSTRUCTION  
SCALE 1:10



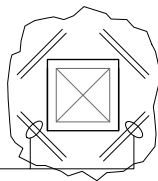
DOWELED EXPANSION JOINT (D.E.J.)  
SCALE 1:10



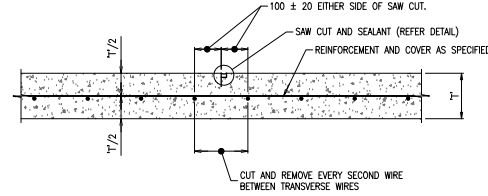
EXPANSION JOINT (E.J.)  
SCALE 1:10



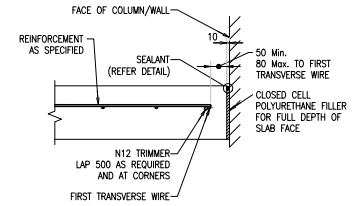
TIED CONSTRUCTION JOINT (T.C.J.)  
SCALE 1:10



TYPICAL REINFORCEMENT DETAIL AROUND PITS/ TREE PITS  
SCALE 1:50



TIED SAWN JOINT (TSJ) DETAIL  
SCALE 1:10

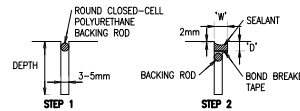


ISOLATION JOINT (I.J.)  
SCALE 1:10

#### NOTES

- WHERE REINFORCEMENT IS 'DRAPED' TO MID-DEPTH, MINIMUM DRAPED WIDTH 600 EACH SIDE OF JOINT.
- CRACK INDUCERS ARE NOT TO BE USED.

SAWN JOINT CUT AND SEALANT DETAILS  
SCALE 1:10



#### STEP 1:

INITIAL CUT TO DEPTH 'T/4' (T/3 FOR STEEL FIBRE REINFORCED CONCRETE) WITHIN 1 DAY OF POURING CONCRETE. INSERT POLYURETHANE BACKING ROD TO PREVENT INGRESS OF DIRT UNTIL SEALANT APPLIED (MIN 28 DAYS LATER). ROD DIAMETER TO BE MIN. 1.25 x CUT WIDTH.

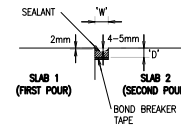
#### STEP 2:

REMOVE ALL DIRT FROM SAW CUT, USING HIGH PRESSURE COMPRESSED AIR. REPLACE BACKING ROD WITH LARGER DIAMETER IF LOOSE. PUSH BACKING ROD INTO SAW CUT 1mm BELOW DEPTH 'D'. IF NECESSARY, REMOVE AND REPLACE BACKING ROD. WIDEN SAW CUT TO WIDTH 'W' AND DEPTH 'D' WITH ADDITIONAL SAW CUTS. REMOVE ALL FOREIGN MATERIAL USING HIGH PRESSURE WATER WASH. DRY USING HIGH PRESSURE COMPRESSED AIR AND ALLOW ADDITIONAL 16 HRS TO DRY THOROUGHLY. INSTALL POLYETHYLENE BOND BREAKER TAPE. PRIME FACES OF CUT CONCRETE (REFER SEALANT TABLE BELOW). INSTALL SEALANT AS SPECIFIED (REFER SEALANT TABLE) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LOCATION	SEALANT	PRIMER
AREAS SUBJECT TO FUEL SPILLAGE	THIOFLEX 600	FOSROC PRIMER 14
OTHER EXTERNAL PAVEMENTS	EMER-ROAD SEAL SL	FOSROC PRIMER 10

#### ALTERNATIVE SEALANTS MUST HAVE

- MOVEMENT ACCOMMODATION FACTOR +/- 50%
- PRIMER TO MANUFACTURER'S SPECIFICATION
- INSTALLATION TO MANUFACTURER'S RECOMMENDATIONS
- PRIOR APPROVAL BY MANAGING CONTRACTOR.



MOVEMENT JOINT SEALANT DETAILS  
(FOR DCJ, DEJ, KJ & DDJ JOINTS)

#### STEPS:

- FORM REBATE IN SLAB 2 AGAINST FACE OF SLAB 1.
- AFTER SLAB CURING PERIOD (MIN. 28 DAYS) WASH OUT REBATE USING HIGH PRESSURE WATER. DRY USING HIGH PRESSURE COMPRESSED AIR AND ALLOW ADDITIONAL 16HRS TO DRY THOROUGHLY.
- INSTALL POLYETHYLENE BOND BREAKER TAPE FOR FULL WIDTH 'W'. FOR IJ, EJ AND DEJ JOINTS OMIT BOND BREAKER TAPE.
- PRIME FACES OF SIDES OF REBATE (REFER SEALANT TABLE).
- INSTALL SEALANT AS SPECIFIED (REFER SEALANT TABLE) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SEALANT DIMENSIONS		
MEAN SLAB LENGTH (m)	SEALANT WIDTH 'W' (mm)	SEALANT DEPTH 'D' (mm)
≤4	7 ± 1	7 ± 1
5	9 ± 2	7 ± 1
6	9 ± 2	7 ± 1

DOWEL / TIE BAR TABLE			
JOINT DESIGNATION	DOWEL / TIE	SPACING CTR-CTR	LENGTH 'L'
DEJ	28# ROUND SHRINK-WRAPPED FULL LENGTH	300	450
SSJ	28# DEFORMED TIE BAR, TBC BY STRUCTURAL ENGINEER.	300	450

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Rev	Revision Description	By	App.	Date	Rev	Revision Description	By	App.	Date
1	FOR PRELIMINARY INFORMATION	ZJ	CM	14.03.18					
2	FOR DEVELOPMENT APPLICATION	ZJ	CM	20.03.18					

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Title  
**PAVEMENT AND JOINTING DETAILS**  
Project  
**WENTWORTH POINT BOAT FACILITY**

NOT FOR CONSTRUCTION		
Date 20.03.18	Designer Z.JONES	Design Checker C.BRODIE
Scale of A1 AS SHOWN	Drawn S.MANANDHAR	Principal/Project Leader S.MACLELLAND
Job Number 17067	Drawing Number C-4-10	Revision 2

# NOTES

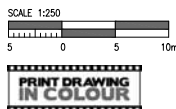
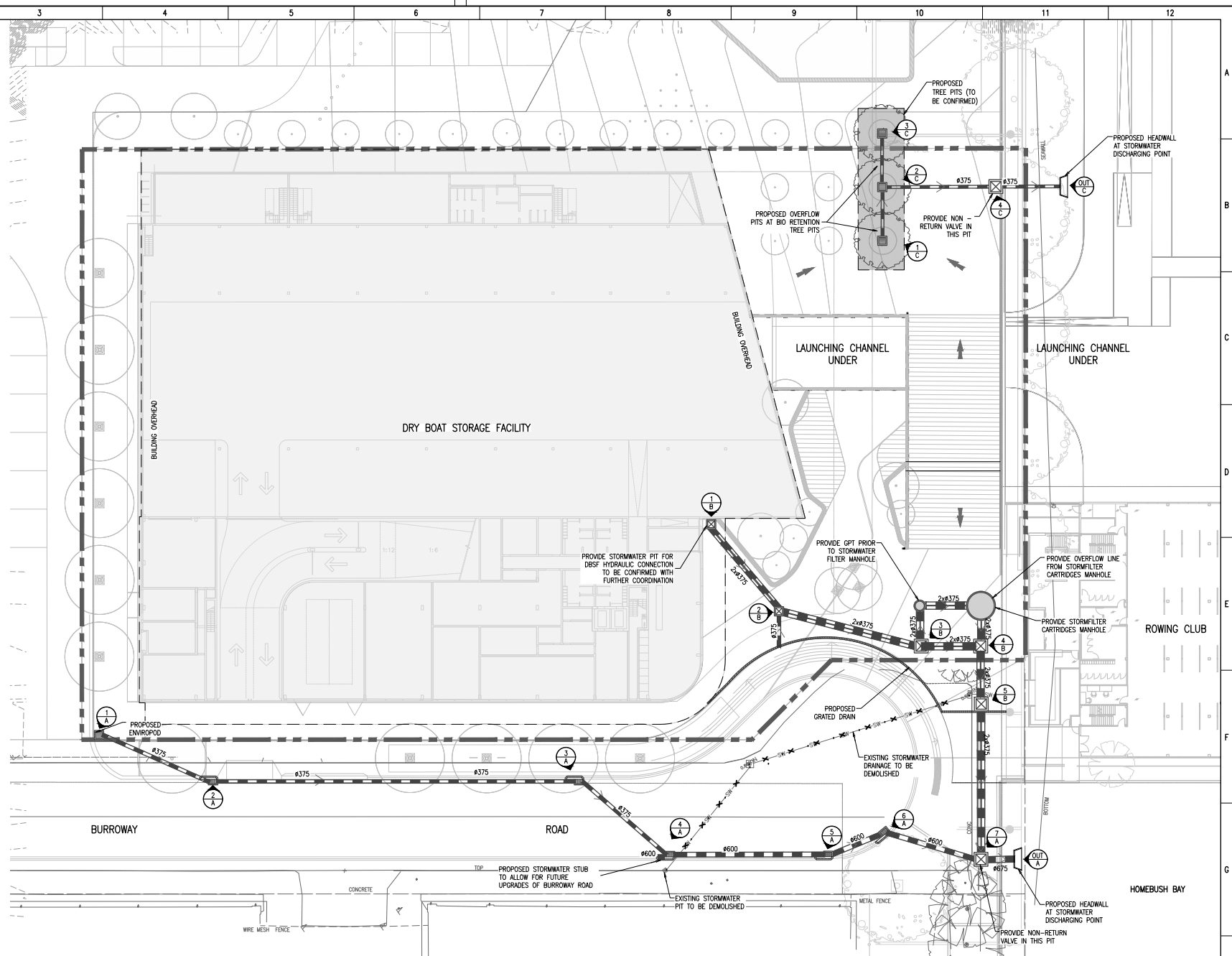
1. STORMFILTER AND GPT ARE IN AN OFFLINE SYSTEM ALLOWING HIGH FLOWS TO BYPASS.
2. TAIL WATER LEVELS HAVE BEEN DESIGNED ACCORDING TO FLOOD DATA OBTAINED FROM PARRAMATTA CITY COUNCIL WHICH PROVIDES FLOOD LEVELS ALONG PARRAMATTA RIVER. THESE LEVELS HAVE BEEN COMPARED WITH THE LOCAL MEAN HIGH WATER SPRING LEVEL TO DETERMINE THE WORST CASE EVENT. AN ALLOWANCE OF 500mm HAS THEN BEEN MADE TO ACCOUNT FOR THE IMPACT OF CLIMATE CHANGE ON SEA LEVEL. THE GOVERNING TAIL WATER CONDITIONS ARE AS FOLLOWS:
  - 2.1. 5% AEP = 1.41m
  - 2.2. 1% AEP = 1.49m
3. NON RETURN VALVES HAVE BEEN PROPOSED TO MINIMISE THE IMPACT OF VARYING TIDES.

# DESIGN STORM EVENTS

- MINOR STORM EVENTS ARI 20YR (5% AEP) FOR IN-GROUND DRAINAGE DESIGN;
- MAJOR STORM EVENTS ARI 100YR (1% AEP) FOR OVERLAND FLOW PATHS DESIGN;

# LEGEND

- PRECINCT BOUNDARY
- 5.00 EXISTING PRECINCT MAJOR CONTOUR
- 4.50 EXISTING PRECINCT MINOR CONTOUR
- DA TITLE BOUNDARY
- PROPOSED BUILDING OVERHEAD
- PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED STORMWATER JUNCTION PIT
- PROPOSED STORMWATER KERB INLET PIT
- PROPOSED GRATED DRAIN
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER PIPE DIAMETER
- PROPOSED STORMWATER TREATMENT DEVICE
- PROPOSED SURFACE / ROOF RUNOFF DIRECTION INDICATIVE
- PROPOSED STORMWATER PIT LABEL
- PROPOSED HEADWALL AT STORMWATER DISCHARGE POINT
- PROPOSED BIO RETENTION TREE PIT



Rev.	Revision Description	By.	App.	Date	Rev.	Revision Description	By.	App.	Date
1	FOR DEVELOPMENT APPLICATION	CH	SMC	10.07.17					
2	FOR DEVELOPMENT APPLICATION	CH	SMC	24.07.17					
3	FOR DEVELOPMENT APPLICATION	ZJ	CH	26.03.18					
4	FOR PRELIMINARY INFORMATION	ZJ	CH	14.03.18					
5	FOR DEVELOPMENT APPLICATION	ZJ	CH	20.03.18					
6	FOR DEVELOPMENT APPLICATION	ZJ	CH	22.03.18					

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Title: **STORMWATER MANAGEMENT PLAN**

Project: **WENTWORTH POINT BOAT FACILITY**

NOT FOR CONSTRUCTION		
Date: 22.03.18	Designer: Z.JONES	Design Checker: CROPE
Scale: at A1 AS SHOWN	Drawn: S.MANANDHAR	Principal/Project Leader: S.MCCLELLAND
Job Number: 17067	Drawing Number: C-6-01	Revision: 6



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[illegible]

ACN 910 580 248	WWW SITE: WWW.FUDRIFTEDU.COM
7	8

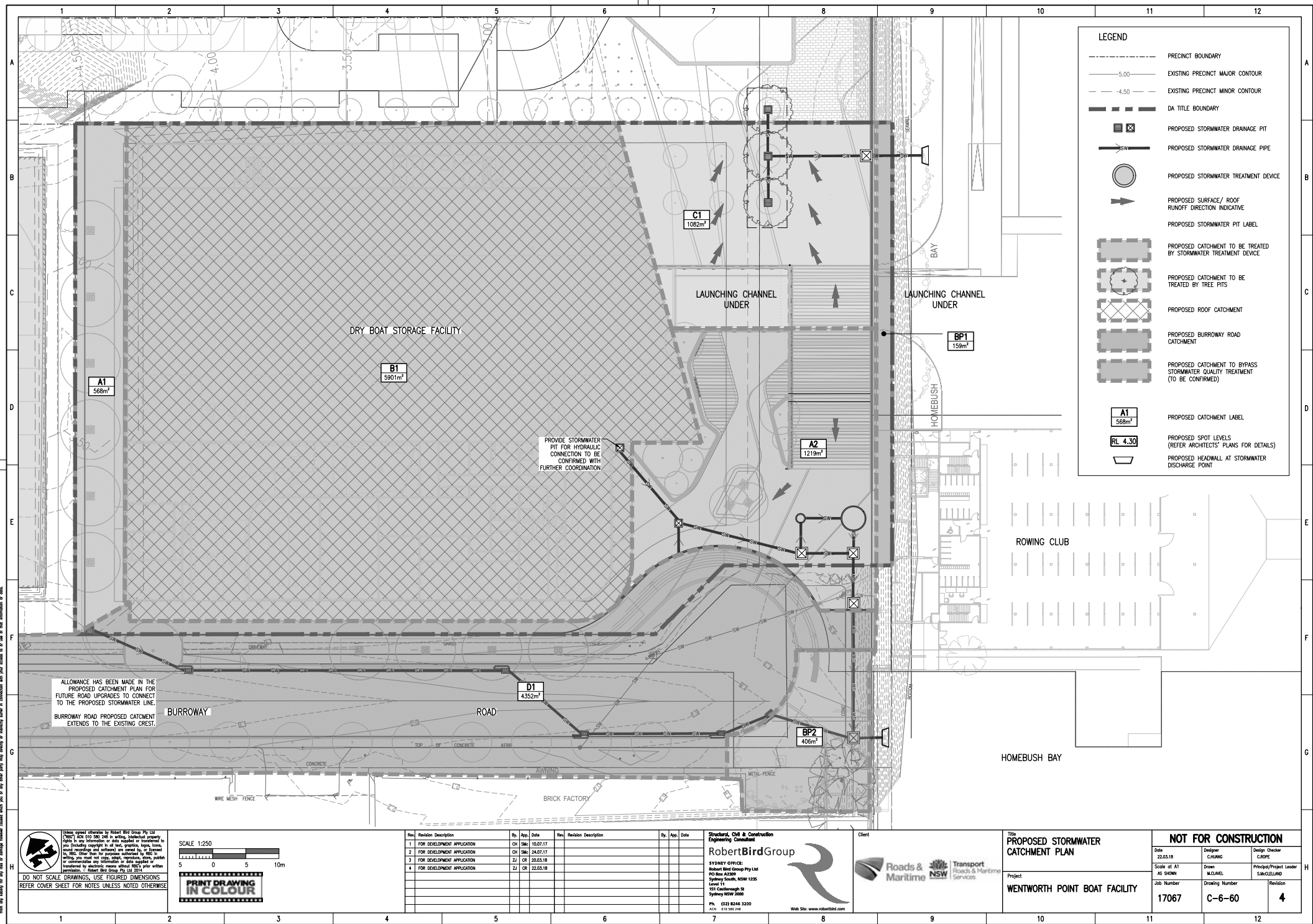


A horizontal number line with a segment labeled 10. The segment is defined by two vertical tick marks, and the number 10 is centered below the line between these marks.

11	12
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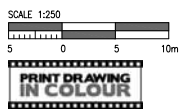
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**LEGEND**

- PRECINCT BOUNDARY
- 5.00 EXISTING PRECINCT MAJOR CONTOUR
- 4.50 EXISTING PRECINCT MINOR CONTOUR
- - - DA TITLE BOUNDARY
- ☒ PROPOSED STORMWATER DRAINAGE PIT
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER TREATMENT DEVICE
- PROPOSED SURFACE/ ROOF RUNOFF DIRECTION INDICATIVE
- PROPOSED STORMWATER PIT LABEL
- ▨ PROPOSED CATCHMENT TO BE TREATED BY STORMWATER TREATMENT DEVICE
- ⊕ PROPOSED CATCHMENT TO BE TREATED BY TREE PITS
- ▨ PROPOSED ROOF CATCHMENT
- ▨ PROPOSED BURROWAY ROAD CATCHMENT
- ▨ PROPOSED CATCHMENT TO BYPASS STORMWATER QUALITY TREATMENT (TO BE CONFIRMED)
- A1 568m² PROPOSED CATCHMENT LABEL
- RL 4.30 PROPOSED SPOT LEVELS (REFER ARCHITECTS' PLANS FOR DETAILS)
- ▭ PROPOSED HEADWALL AT STORMWATER DISCHARGE POINT

**DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS**  
REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE



Rev.	Revision Description	By.	App.	Date	Rev.	Revision Description	By.	App.	Date
1	FOR DEVELOPMENT APPLICATION	CH	SMC	10.07.17					
2	FOR DEVELOPMENT APPLICATION	CH	SMC	24.07.17					
3	FOR DEVELOPMENT APPLICATION	CH	SMC	24.07.18					
4	FOR DEVELOPMENT APPLICATION	CH	SMC	22.03.18					

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**Client**  
**WENTWORTH POINT BOAT FACILITY**

NOT FOR CONSTRUCTION			
Date 22.03.18	Designer CHUNG	Design Checker C.ROPE	
Scale of A1 AS SHOWN	Drawn M.CUMIEL	Principal/Project Leader S.MCCLELLAND	
Job Number 17067	Drawing Number C-6-60	Revision 4	