



Figure 2

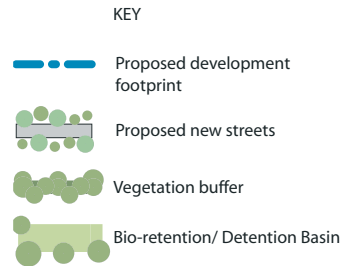
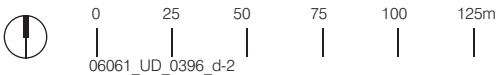


Figure A1.3.1 Nords Wharf Indicative Lot Layout

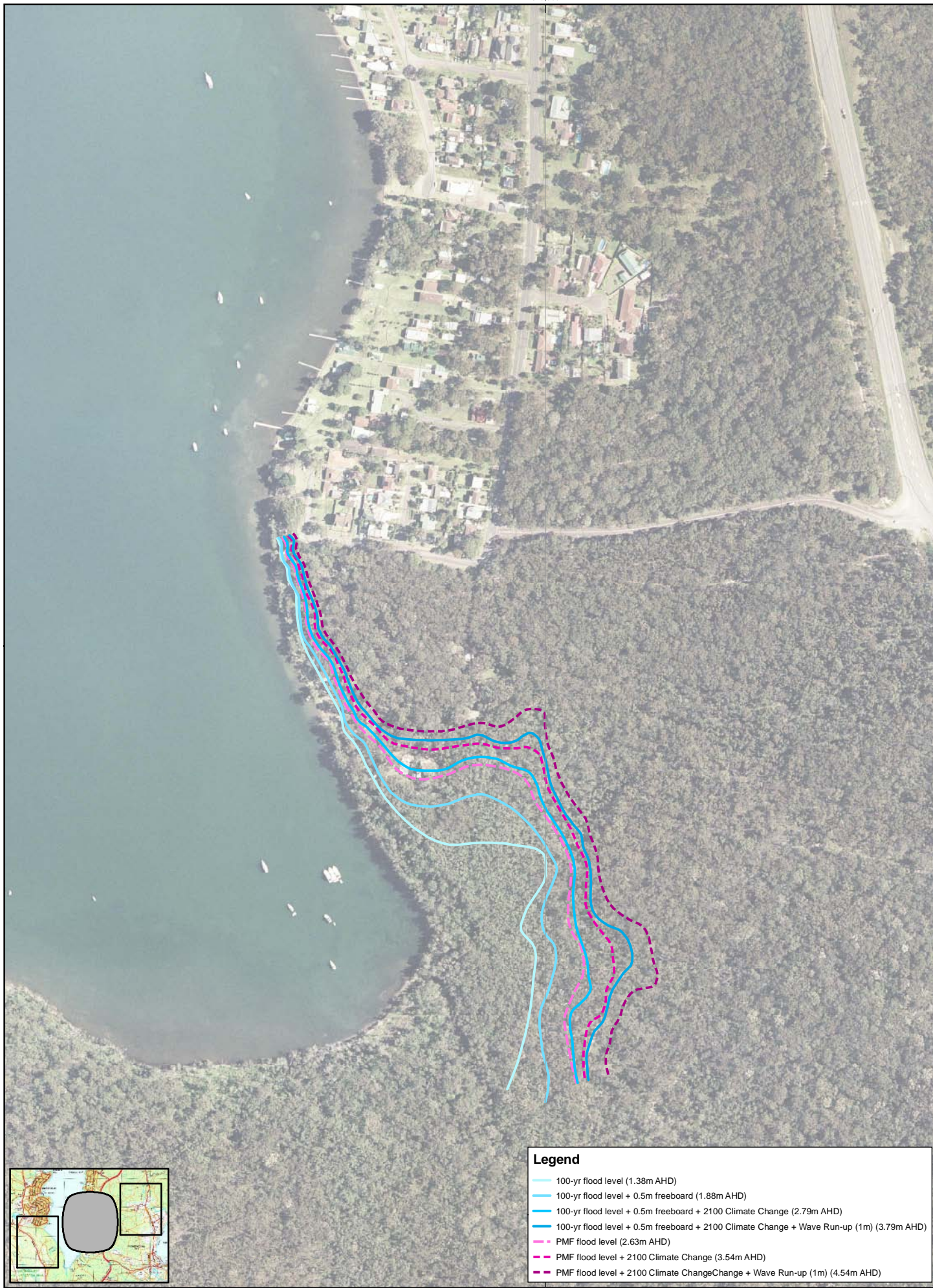






## Appendix B

# Flood Maps



#### Legend

- 100-yr flood level (1.38m AHD)
- 100-yr flood level + 0.5m freeboard (1.88m AHD)
- 100-yr flood level + 0.5m freeboard + 2100 Climate Change (2.79m AHD)
- 100-yr flood level + 0.5m freeboard + 2100 Climate Change + Wave Run-up (1m) (3.79m AHD)
- PMF flood level (2.63m AHD)
- PMF flood level + 2100 Climate Change (3.54m AHD)
- PMF flood level + 2100 Climate Change + Wave Run-up (1m) (4.54m AHD)

0 50 100 200  
Meters

Map Projection: Transverse Mercator  
Horizontal Datum: Geocentric Datum of Australia 1994  
Grid: Map Grid of Australia, Zone 56



Coal & Allied  
Lower Hunter Land Project

Nords Wharf  
Flooding Assessment

Job Number 21-16058  
Revision 0  
Date 17/06/2010

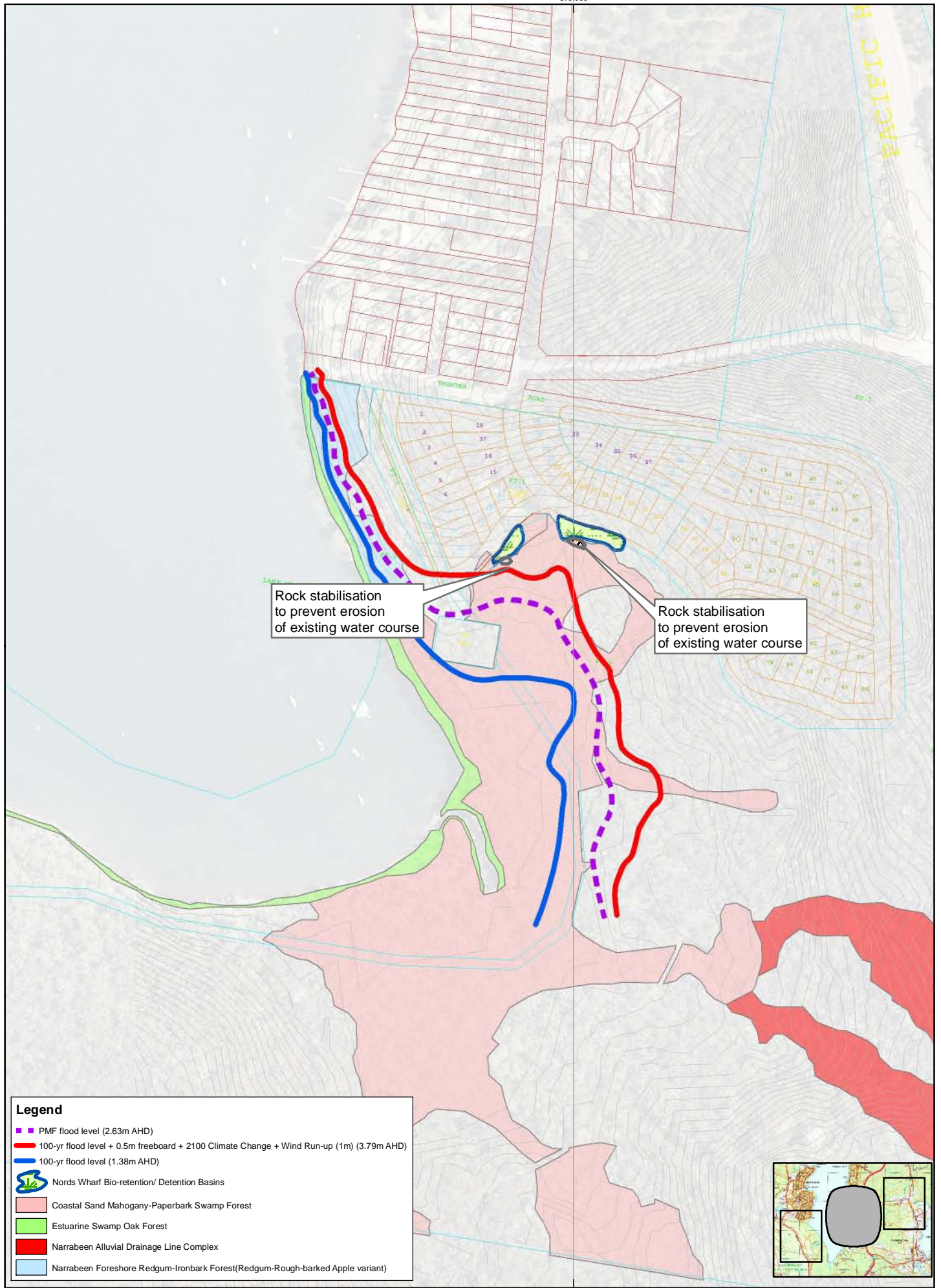
Figure 1




Appendix C

## Water Sensitive Urban Design Strategy





#### Legend

- PMF flood level (2.63m AHD)
- 100-yr flood level + 0.5m freeboard + 2100 Climate Change + Wind Run-up (1m) (3.79m AHD)
- 100-yr flood level (1.38m AHD)
-  Nords Wharf Bio-retention/ Detention Basins
- Coastal Sand Mahogany-Paperbark Swamp Forest
- Estuarine Swamp Oak Forest
- Narrabeen Alluvial Drainage Line Complex
- Narrabeen Foreshore Redgum-Ironbark Forest (Redgum-Rough-barked Apple variant)

0 50 100 200  
Meters

Map Projection: Transverse Mercator  
Horizontal Datum: Geocentric Datum of Australia 1994  
Grid: Map Grid of Australia, Zone 56



Coal & Allied  
Lower Hunter Land Project

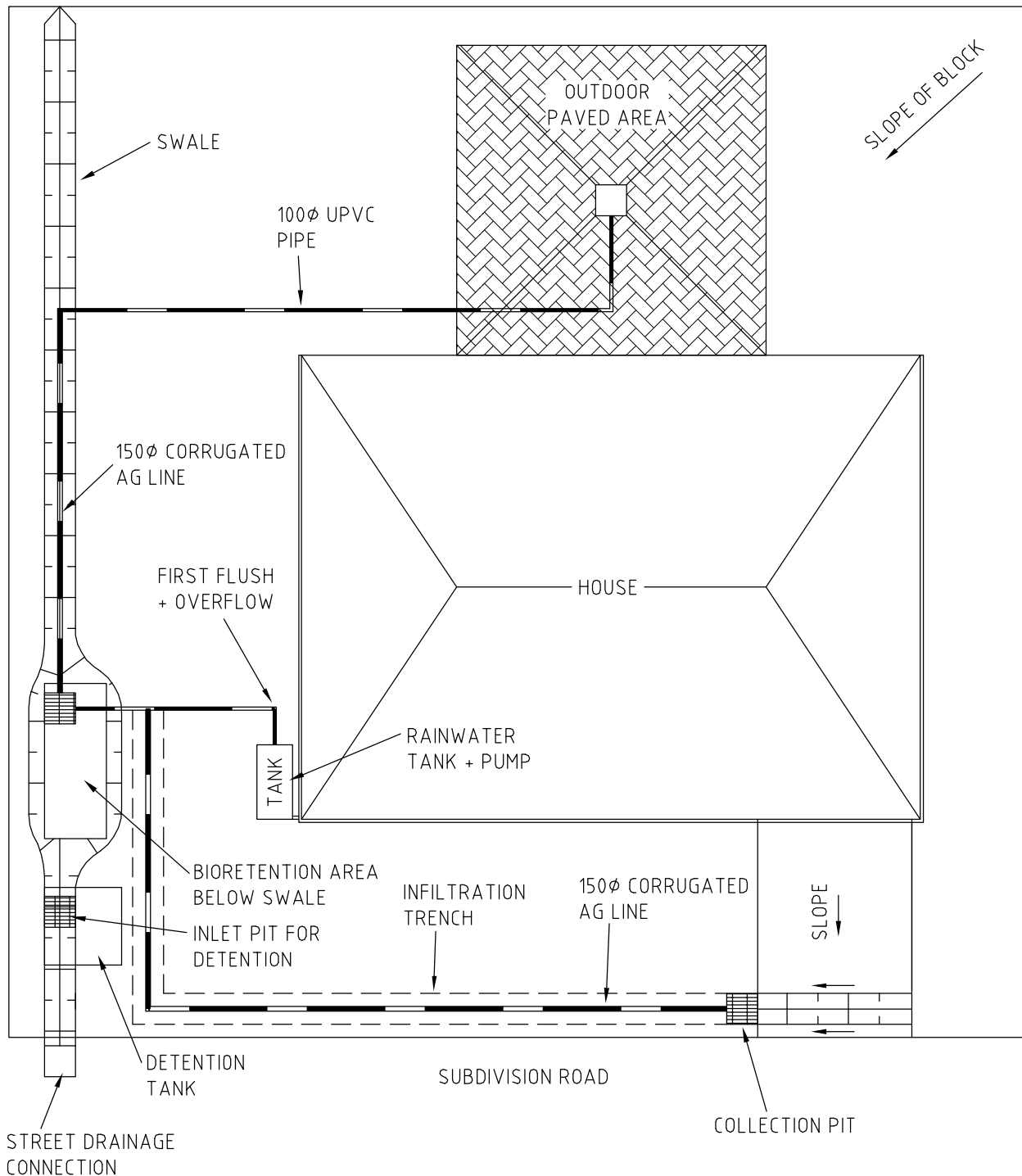
Job Number | 21-16058  
Revision | 0  
Date | 30/09/2010

Nords Wharf  
Bioretention/Detention Basin Locations  
**Figure 1**



Appendix D

## Typical on-lot Stormwater Management Configuration



CLIENTS | PEOPLE | PERFORMANCE

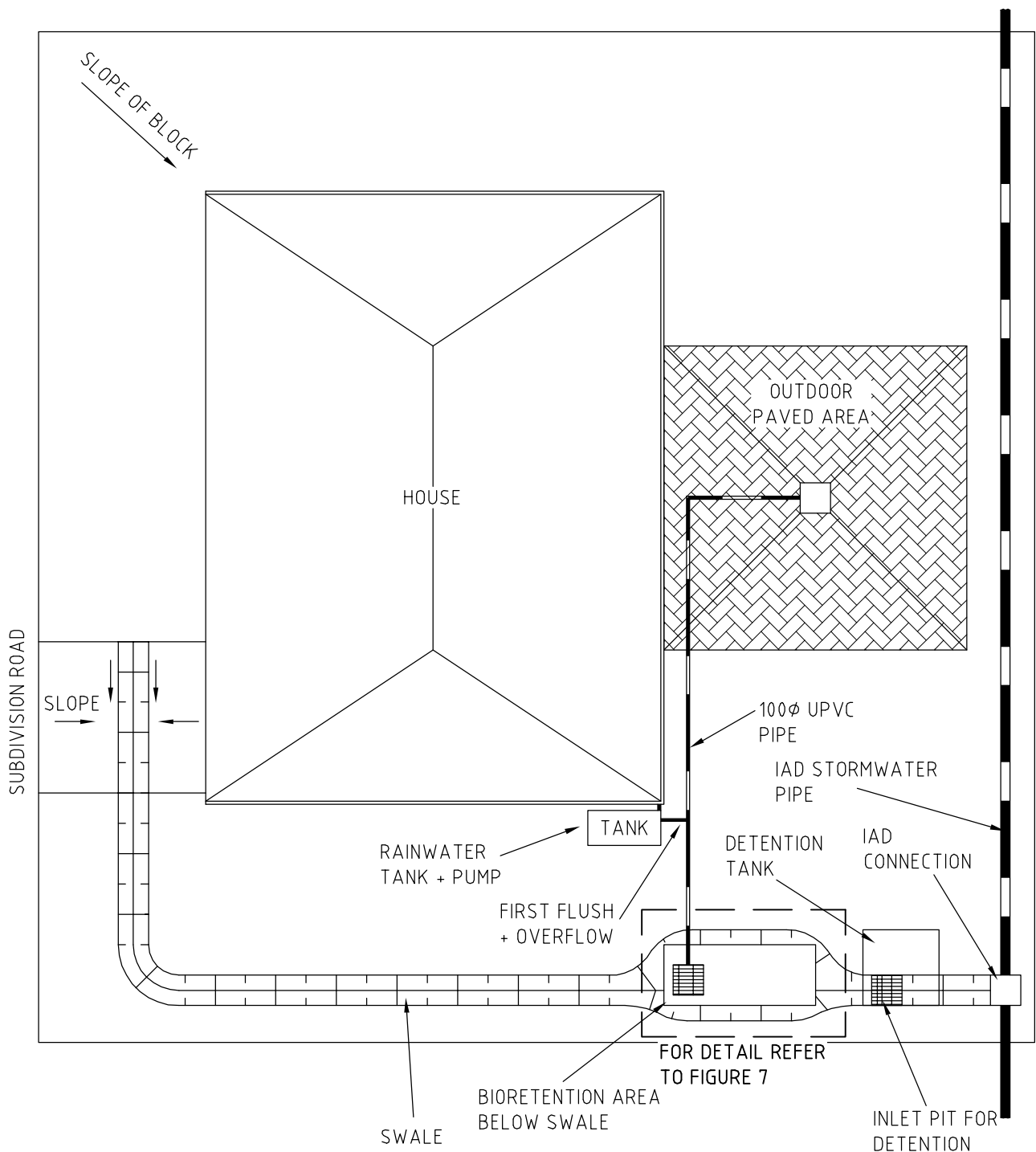
COAL & ALLIED  
SOUTHERN ESTATES CATHERINE HILL

**STORMWATER PLAN**  
**STREET DRAINAGE**

scale | NTS for A4 date | OCTOBER 2007

job no. | 21-16058  
rev no. | A

**Figure 1**



CLIENTS | PEOPLE | PERFORMANCE

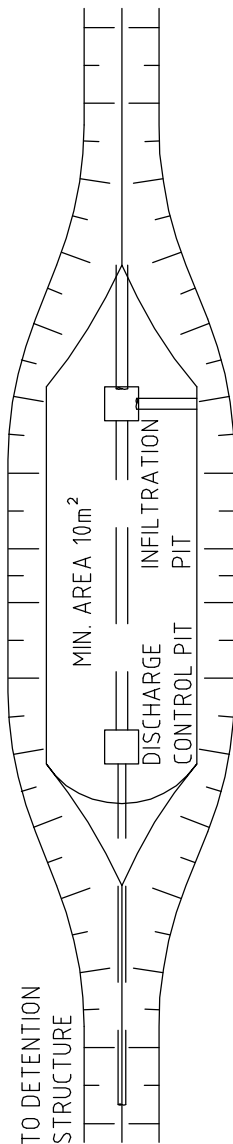
COAL & ALLIED  
SOUTHERN ESTATES CATHERINE HILL  
**ON-LOT STORMWATER PLAN**  
REAR DRAINAGE

scale | NTS for A4 date | month 2005

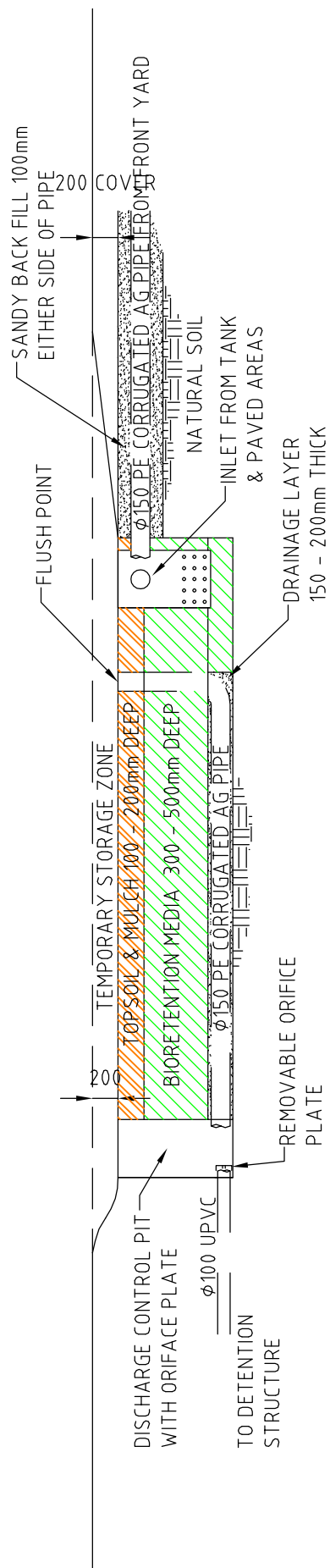
job no. | 21-16058  
rev no. | A

**Figure 2**





SCALE 1:100



SCALE 1:200



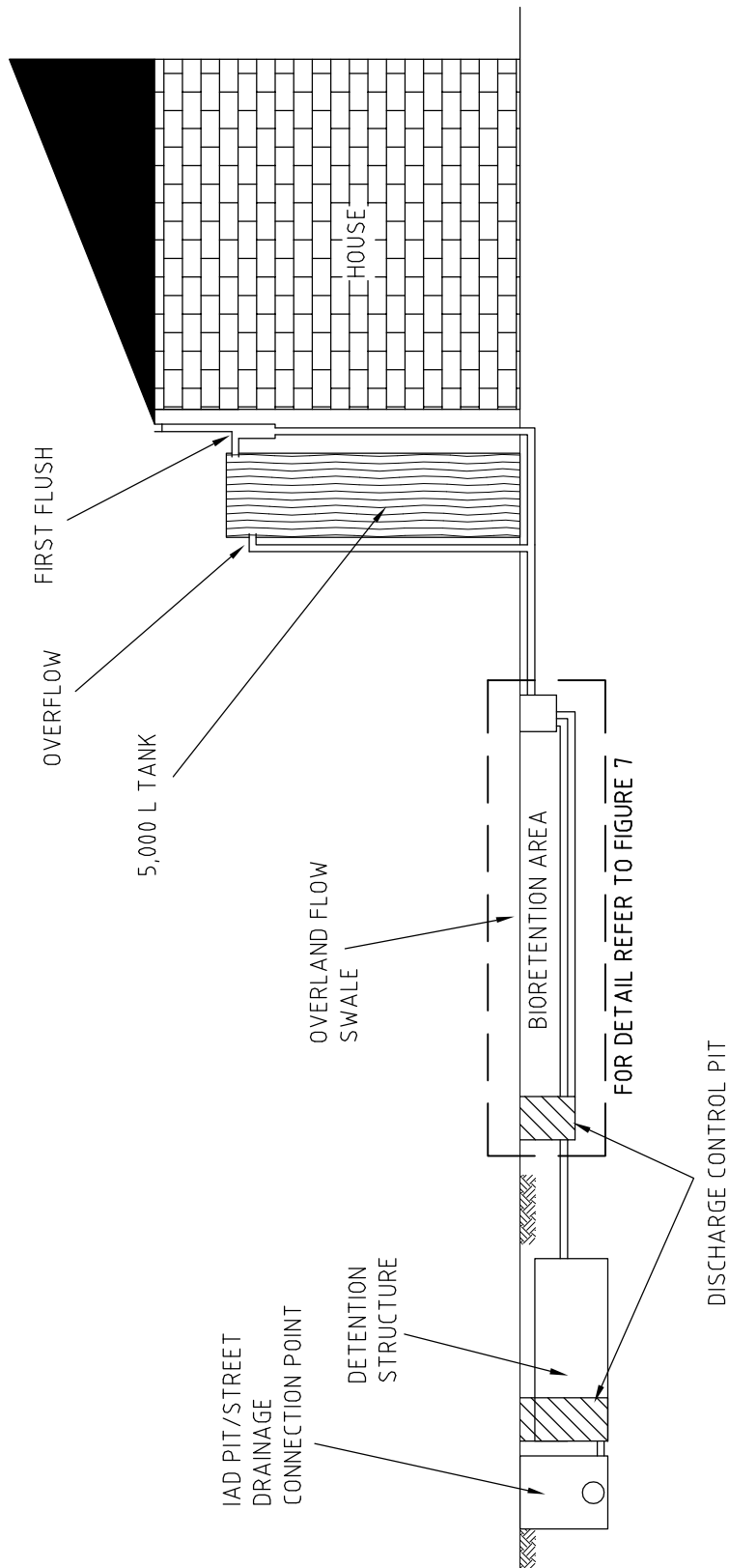
CLIENTS | PEOPLE | PERFORMANCE

COAL & ALLIED  
SOUTHERN ESTATES CATHERINE HILL  
BIORETENTION AREA DETAIL

job no. 21-16058  
rev no. A

scale NTS for A4 date OCTOBER 2007

Figure 3



CLIENTS | PEOPLE | PERFORMANCE

COAL & ALLIED  
SOUTHERN ESTATES CATHERINE HILL  
ON-LOT STORMWATER TREATMENT  
SECTION VIEW

scale | NTS for A4 date | OCTOBER 2007

job no. | 21-16058  
rev no. | A

Figure 4



## GHD

133 Castlereagh St Sydney NSW 2000

-

T: 2 9239 7100 F: 2 9239 7199 E: [sydmal@ghd.com.au](mailto:sydmal@ghd.com.au)

## © GHD 2010

This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited.

## Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
Number of DRAFT Versions	R Berg	A number of internal reviews have taken place, on previous versions including a Client's review. Minor changes in all cases		R Berg		Jan, Feb. May Sep 2010
Review of Adequacy	R Berg	Client and Scott Fraser		R Berg		2010.10.11