

- LEGEND**  
GENERAL:-
- Top of batter.
  - Toe of batter.
  - Invert of creek/drain.
  - Change of grade.
  - Stormwater drain line.
  - Sewer main.
  - Water main.
  - Stormwater drain line.
  - Subsoil drainage.
  - Sewer man.
  - Sewer manhole.
  - Water main.
  - Overhead power line.
  - Optic fibre conduit.

- SEWERAGE RETICULATION:-**
- Direct connection (DC)
  - 100Ø manhole connection - Benching (BC)
- Distance from downstream manhole to Y-junction - dimension 'L'.  
Invert level at limit of house connection branch.  
Allotment connection dimension 'X'.  
Allotment connection dimension 'Y'.  
Type of junction.

- WATER RETICULATION:-**
- DSC Double Service Connection.
  - SSC Single Service Connection.
  - FH Fire Hydrant.

- NOTES**  
**SEWERAGE RETICULATION:-**
- All 100Ø sewer mains & fittings are uPVC class SN8.
- WATER RETICULATION:-**
- All water service connections have been installed in accordance with the former Thuringowa City Council standards. ie. 1.2m 100mm offset from property boundary. U.N.O.
  - All water supply fixtures (FH, SV etc.) have been installed in accordance with the former Thuringowa City Council standards. ie. adjacent to property boundary intersection. U.N.O.
  - All uPVC water mains are Class 16 cast iron outside diameter compatible. Unless noted otherwise.

**AS CONSTRUCTED**

I John James Rowlands of ROWLANDS SURVEYS Pty. Ltd. hereby certify that this drawing accurately describes and records the nature and the location of the works depicted hereon as they have been constructed for the purposes of the development.

John James Rowlands  
Director/Registered Surveyor

Date: 31/2/10

TOWNSVILLE CITY COUNCIL  
REC'D 24 DEC 2010  
TOWN PLANNING

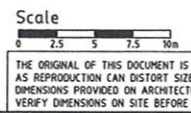
**APPROVED**

**REAL PROPERTY DESCRIPTION**  
Lot 779 on SP 223220  
Parish of BOHLE  
County of ELPHINSTONE  
Bilbao Place - Bushland Beach

In Association with:-  
**ROWLANDS SURVEYS PTY LTD**  
22 GORDEN STREET  
GARbutt. 4814  
Ph. (07)47755077



LEVEL DATUM A.H.D.  
Horizontal Datum GDA' 94 Zone 55  
Refer P.M. 138403 RL. 8.545  
Bolt & washer in manhole top.  
LYNWOOD AVENUE



All work carried out in accordance with LOCAL AUTHORITY standard details.

**NORTHERN CONSULTING**  
engineers

Civil & Structural Engineers  
50 Punari Street, Cursjong 4812  
Phone: 07 4725 5550 Fax: 07 4725 5850  
Email: mail@nceng.com.au  
Milton Messner & Associates Pty. Ltd.  
ACN 100 817 956

Issue	Description	Date
B	AMENDED TO AS CONSTRUCTED.	02/12/2010
A	ISSUED FOR CONSTRUCTION.	16/08/2010
P2	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	28/05/2010
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR INFORMATION.	29/04/2010

Drawn TM	In Association with <b>SUNLAND GROUP LIMITED</b>	<b>SEWERAGE &amp; WATER RETICULATION PLAN</b>
Date 29/04/2010	<b>STAGE 89, 5 TRADITIONAL RESIDENTIAL LOT SUBDIVISION</b>	
Checked [Signature]	<b>BILBAO PLACE BUSHLAND BEACH</b>	Drawing Number <b>SUN0089/05</b>
Appraised		Issue <b>B</b>
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