CSI SOIL TESTING
What are you Building on ?

SITE INVESTIGATION AND CLASSIFICATION REPORT

Client:	
Job No:	14148
Site Address:	Lot 64 Bayonne Close, Little Mountain
Council:	Sunshine Coast Regional
Field Work By:	BAC
Date of Field Work:	13/04/21
Reported By:	BAC
Report Date:	15/04/21

Guided by AS2870-2011

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SITE CLASSIFICATION REPORT

CLIENT: **SITE ADDRESS:** Lot 64 Bayonne Close, Little Mountain **TEST METHOD:** Hydraulic Rig	**CSI JOB NUMBER:** 14148 **DATE TESTED:** 13/04/21 **TESTED BY:** BAC **GUIDED BY AS2870-2011**

VEGETATION: Sparsely grassed. Trees/saplings planted on footpath
TOPOGRAPHY: Hilly area. Sloping block. Boulders/cobbles. Good surface drainage. Poor subsurface drainage
STRATA SUMMARY: Gravelly clay over weathered rock
CROSS FALL: 15-22% house site area

In accordance with AS2870-2011 and based on the field information at the time of the investigation carried out on the above address,

The site has been classified as an **"H1" Classification** 40mm < Ys <= 60mm, if

- **the construction is founded into a natural strata** with a bearing capacity that is greater or equal to 100 kpa, with no underlying soft layers, or to an allowable bearing capacity as specified by a qualified Geotechnical and/or Structural Engineer.

The design engineer should be aware

- That there are trees on or near the site and that they may have an effect on the performance of the footings/slab, whilst in place and after removal. The design engineer should take all considerations and satisfy themselves in this regard.
- Of the presence of rock floaters/outcrops on the site and that they may have an effect on the performance of the footings/slab, whilst in place and after removal. The design engineer should take all considerations and satisfy themselves in this regard. If auger drilling has had refusal on rock and/or possible rock floaters, it is recommended that an excavator is used to further the investigation.

This site classification is for the design of a footing system for a single dwelling house, townhouse or similar structures as specified in AS2870-2011.

This report is a site classification and does not constitute a Geotechnical Engineers assessment and/or slope stability assessment, if the owner/builder/local authority/structural engineer deem it necessary for a full geotechnical assessment and/or slope stability assessment to be done, a specialist Geo-technical engineer will need to be consulted.

This report does not constitute a mine shaft subsidence assessment. If the local authority deem it necessary, application to the Department of Mines and Energy is necessary for a specific site report.

Before, during and after construction, site drainage must direct all surface, subsurface and roof water away from any construction and toward stormwater run-off areas. The site drainage should be checked before building to ensure stable moisture conditions. Excessive moisture can reduce the strength of the soil. Moisture change can cause shrink-swell movements of the soil. It is the owners or principal contractors responsibility to ensure stable moisture conditions around the structure at all times. Guidance can be found in the CSIRO information sheet 'Guide to Home Owners on Foundation Maintenance and Footing Performance' or the QBCC booklet 'Guide to Preventing Structural Damage to your Home'.

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This report is based on site information as at the time of investigation only and does not take into account any event, whether by human intervention and/or by nature that occurs after this visit, which affects the results and findings of this investigation and report. A borehole sample is a very small snapshot of the whole site volume and Soil conditions can change rapidly over a very short distance, both vertically and horizontally, and with variations caused by time, nature and nearby developments. Results are therefore used as a guide in determining the whole foundation conditions of the site. Before building, if the site conditions have changed and/or if after excavation of the site footings, the soil profile is significantly different to that indicated on the attached borelogs, or if the construction is situated in a different location as that marked on the site sketch or if any material change has occurred to the site whether by human intervention and/or by nature, this report will become void. In the event that the report becomes void, this office is to be notified of such occurrence and it is a CSI recommendation that a new investigation can be carried out prior to design/construction (further charges will apply).

Reported by
B.A.Croke
Assoc Dip Civil Eng
QBCC Site Classifiers Lic No. 1064963

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Field Investigation Data

DCP 1	Test Depth (m)	DCP	(BH) Borehole No.1	Comments
2 1 2 3 8 7 16 20 Ref usal	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0		0.0 Sandy **CLAY (CI)**, medium plasticity fines, dark grey, fine to coarse sand, trace fine to coarse gravel, very moist, soft becoming firm 0.4 Silty **CLAY (CH)**, high plasticity fines, pale grey mottled yellow brown, with fine to medium gravel, moist, very stiff 0.8 Weathered **ROCK (XW)**, yellow brown mottled pale grey, clay and silt fines, dry, hard 1.0 Auger refusal on weathered rock	

DCP 2	Test Depth (m)	DCP	(BH) Borehole No.2	Comments
2 2 2 2 4 Ref usal	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0		0.0 Sandy **CLAY (CI)**, medium plasticity fines, dark grey, fine to coarse sand, trace fine to coarse gravel, very moist, firm 0.2 Silty **CLAY (CH)**, high plasticity fines, yellow brown mottled grey, with fine to medium gravel, moist, very stiff 0.5 Sandy **CLAY (CH)**, high plasticity fines, grey brown, fine to coarse sand, dry, hard 0.7 Silty **CLAY (CH)**, high plasticity fines, pale grey mottled yellow brown, with fine to medium gravel, moist, very stiff 0.9 Weathered **ROCK (XW)**, yellow brown mottled pale grey, clay and silt fines, dry, hard 1.1 Auger refusal on weathered rock	

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Field Investigation Data

DCP 3	Test Depth (m)	DCP	(BH) Borehole No.3	Comments
2 2 2 3 3 5 10 Ref usal	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0		0.0 Silty **CLAY (CH)**, high plasticity fines, yellow brown and grey, with fine to coarse gravel, cobbles, moist, stiff (FILL) 0.15 Sandy **CLAY (CI)**, medium plasticity fines, dark grey, fine to coarse sand, trace fine to coarse gravel, very moist, firm 0.3 Silty **CLAY (CH)**, high plasticity fines, pale grey mottled yellow brown, with fine to medium gravel, moist, stiff, DPP 150 kpa 0.8 Sandy **CLAY (CH)**, high plasticity fines, grey brown, fine to coarse sand, dry, hard 1.0 Weathered **ROCK (XW)**, yellow brown mottled pale grey, clay and silt fines, dry, hard 1.2 Auger refusal on weathered rock	Sample U50 0.4 – 0.5 m PP 180 kpa

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Field Investigation Diagram

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RPD

Lot 64
SP314098
Locality:
Little Mountain
Area:1191m²

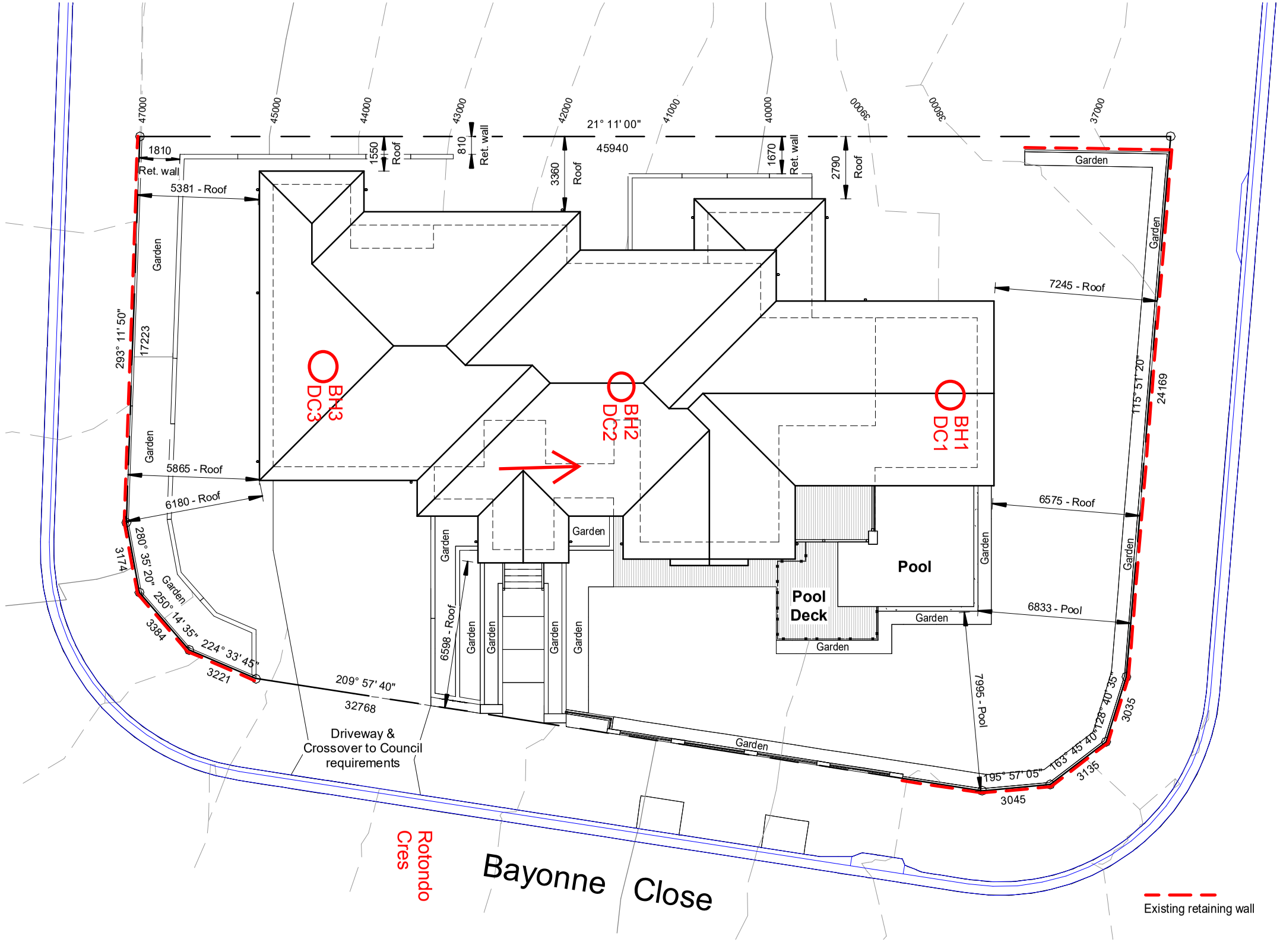
Proposed Areas	
Alfresco	52.66 m²
Entry	19.16 m²
Lower Deck	67.41 m²
Lower Floor	145.07 m²
Upper Floor	259.50 m²
Grand total	543.81 m²

Total Site Cover	**360.27m² (30.22%)**

General Notes

1. Figured dimensions take precedence over scaled dimensions.
2. All work to comply with BCA, QLD Building Act and Local Authority Regulations.
3. Site to be cut and filled in accordance with Geotechnical Engineers specifications. All levels to be confirmed on site prior to construction.
4. Excavations to be in accordance with BCA 3.1.1 and Engineers design.
5. Drainage work to comply with Geotechnical Engineers recommendations and the Structural Engineers details.
6. All timber framing to comply with AS 1684.2.
7. All plumbing and drainage work to be carried out in accordance with AS/NZS 3500 and Council Regulations.
8. All earthworks , footings and slabs in accordance with Engineers design and details.
9. Termite protection to AS 3660-1. (Termimesh or equal)
10. Driveway and crossovers to be in accordance with Councils standard drawing details.
11. Consulting engineers details and specifications are to take precedence over these drawings.
12. Landscape works to be confirmed by client
13. Builder to confirm all dimensions prior to construction.
14. **All boundaries & existing dwelling must be confirmed & sited by a qualified surveyor.**

onplan welcome requests to confirm any suspected anomaly, or correction of suspected errors contained in these plans.



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DESIGN DRAFTING
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client
McFarlane/Dwyer

Lot 64 Bayonne Close, Little Mountain

Revisions

A	Concept	26/11/20
B	Concept Revision	03/12/20
C	Preliminary	10/01/21
D	Approval	25/03/21

25/03/2021 9:30:46 PM

date **March 2021**
job no. **2015**
scale (a3) **1 : 200**
drawn by im
sheet no. **1**
initial

Issued for Construction Purposes

sheet name **Site Plan**
issue Approval

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Shrink-Swell Index and Insitu Moisture Content

CLIENT: **PROJECT:** Proposed Dwelling **SITE ADDRESS:** Lot 64 Bayonne Close, Little Mountain	**CSI JOB NUMBER:** 14148 **DATE SAMPLED:** 13/04/21 **DATE TESTED:** 13/04/21

SAMPLE INFORMATION

SAMPLE LOCATION: Borehole 3

DEPTH RANGE: 0.4 – 0.5 (m)

SAMPLE DESCRIPTION: Silty **CLAY (CH)**, high plasticity fines, pale grey mottled yellow brown, with fine to medium gravel, moist, stiff, DPP 150 kpa

TEST RESULTS

INSITU SOIL MOISTURE:	24.8	(%)
(Cu) SHEAR STRENGTH - based on pocket penetrometer.	90	Kpa
SHRINKAGE STRAIN:	5.7	(%)
SWELLING STRAIN:	0	(%)
(Iss) SHRINK-SWELL INDEX***	**3.2**	**(%)**

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SPECIMEN PROPORTIONS

SHRINK * (mm) .Diameter: 47.0.
SWELL ** (mm) .Diameter: 45.0.

Notes:
* Standard shrinkage specimen proportions are:- length within range of 1.5 to 2.0 specimen diameters.
** Swell measured in one-dimensional consolidation cell, loaded 25 kpa. Maximum specimen ratio:- diameter to thickness should be 2.5:1.
*** Determined in accordance with AS2870-2011 2.3.2, “Residential Slabs and Footings” and test method AS1289.7.1.1.

Reported by: Brian Croke Assoc Dip Civil Eng

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Photos





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