GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 1 – To be submitted with Development Application

Development Application for Name of Applicant				
Addre	ss of site	35 Therry Stre	et, Avalon	
			irements to be addressed in a Geotechnical Risk Declaration made by ist or coastal engineer (where applicable) as part of a geotechnical report	
,	Ben White (Insert Name)	on behalf of _	White Geotechnical Group Pty Ltd_ (Trading or Company Name)	
organisa	r as defined by the	ssue this document and	certify that I am a geotechnical engineer or engineering geologist or coastal Management Policy for Pittwater - 2009 and I am authorised by the above d to certify that the organisation/company has a current professional indemnity	
lease	mark appropriate	box		
\boxtimes	have prepared the detailed Geotechnical Report referenced below in accordance with the Australia Geomechanics Society's Landslide Risk Management Guidelines (AGS 2007) and the Geotechnical Risk Management Policy for Pittwater - 2009			
\boxtimes	accordance with	, ,	the detailed Geotechnical Report referenced below has been prepared in echanics Society's Landslide Risk Management Guidelines (AGS 2007) and the of for Pittwater - 2009	
	with Section 6.0 assessment for	of the Geotechnical Ri the proposed develop	sed development in detail and have carried out a risk assessment in accordance isk Management Policy for Pittwater - 2009. I confirm that the results of the risk oment are in compliance with the Geotechnical Risk Management Policy for extechnical reporting is not required for the subject site.	
	have examined t Application only	he site and the propose involves Minor Dev	ed development/alteration in detail and I am of the opinion that the Development relopment/Alteration that does not require a Geotechnical Report or Risk accordance with the Geotechnical Risk Management Policy for Pittwater - 2009	
	have examined t Hazard and doe	s not require a Geotec	ed development/alteration is separate from and is not affected by a Geotechnical chnical Report or Risk Assessment and hence my Report is in accordance with plicy for Pittwater - 2009 requirements.	
		•	coastal forces analysis for inclusion in the Geotechnical Report	
Geotec	nnical Report Det			
	Report Title: Geo Report Date: 8/3	•	Therry Street, Avalon	
	Author: BEN WI	HITE		
	Author's Compar	ny/Organisation: WHIT	E GEOTECHNICAL GROUP PTY LTD	
Docum	entation which re	late to or are relied up	pon in report preparation:	
	Australian G	eomechanics So	ciety Landslide Risk Management March 2007.	
	White Geote	echnical Group co	ompany archives.	
am av	vare that the abov	ve Geotechnical Repo	ort, prepared for the abovementioned site is to be submitted in support of a	

I am aware that the above Geotechnical Report, prepared for the abovementioned site is to be submitted in support of a Development Application for this site and will be relied on by Pittwater Council as the basis for ensuring that the Geotechnical Risk Management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure, taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.

Signature	elut
Name	Ben White
Chartered Professional Status	MScGEOLAusIMM CP GEOL
Membership No.	222757
Company Wh	ite Geotechnical Group Pty Ltd

GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 1(a) - Checklist of Requirements for Geotechnical Risk Management Report for Development Application

Development Application forName of Applicant				
		ı	name of Applicant	
Addres	s of site	35 Therry Street, Ava	alon	
Report. 1	This checklist is to ac	ecompany the Geotechnical	s to be addressed in a Geotechnical Risk Management Geot Report and its certification (Form No. 1).	echnical
	nical Report Details Title: Geotechnical R	s: Report 35 Therry Street,	Avalon	
Report	Title. Geoleciiileai i	topoit 30 Therry Street,	Avaion	
Report	Date: 8/3/22			
	BEN WHITE			
Author	's Company/Organ	isation: WHITE GEOTECH	INICAL GROUP PTY LTD	
Please m	nark appropriate bo	×		
	Comprehensive site	mapping conducted 18/2/22 (date)	_	
\boxtimes	Mapping details pres	()	with geomorphic mapping to a minimum scale of 1:200 (as appr	opriate)
	Subsurface investiga	•		
	□ No	Justification		
\boxtimes		Date conducted 18/2/22 developed and reported as a	n inferred subsurface type-section	
	Geotechnical hazard	•	Timorioa cascariace type cooleri	
		the site		
	⊠ On the	site		
	⊠ Below			
	Beside			
		Is described and reported	Controlly incl. Diele Management Deliev for Ditturator 2000	
	_		ne Geotechnical Risk Management Policy for Pittwater - 2009	
		quence analysis ency analysis		
\boxtimes	Risk calculation	noy analysis		
\boxtimes		property conducted in accord	dance with the Geotechnical Risk Management Policy for Pittwat	er - 2009
\boxtimes			ordance with the Geotechnical Risk Management Policy for Pittwo	
\boxtimes	Assessed risks have Management Policy		ole Risk Management" criteria as defined in the Geotechnical Ris	sk
\boxtimes			chieve the "Acceptable Risk Management" criteria provided that t	he
_	specified conditions			
	Design Life Adopted			
	⊠ 100 ye	ars		
	☐ Other	specify		
\boxtimes	Geotechnical Condit		phases as described in the Geotechnical Risk Management Polic	y for
	Pittwater - 2009 have	e been specified		
			e and practical have been identified and included in the report.	
	Risk assessment wit	hin Bushfire Asset Protection	Zone.	
that the g Managen	eotechnical risk mar nent" level for the life	nagement aspects of the pro e of the structure, taken as	chnical Report, to which this checklist applies, as the basis for open and the post of the	ptable Risk
		<i>-</i>	Feelen	
		Signature		
		Name	Ben White	
		Chartered Professional Sta	ntus MScGEOLAusIMM CP GEOL	
		Membership No.	222757	

Company White Geotechnical Group Pty Ltd



J4065. 8th March, 2022. Page 1.

GEOTECHNICAL INVESTIGATION:

New Granny Flat at 35 Therry Street, Avalon

1. Proposed Development

- **1.1** Construct a new single storey granny flat requiring minor levelling.
- Details of the proposed development are shown on 27 drawings prepared by Drafting Help. Sheets numbered 1 to 8, 10 to 16, NP, S1 to S3, SA, N1, N2, B1 and B2 are dated 1/12/21. Sheet number 9 is dated 12/2/19.

2. Site Description

- **2.1** The site was inspected on the 18th February, 2022.
- 2.2 This residential property is on the high side of the road and has a NE aspect. It is located on the moderately graded lower reaches of a hillslope. The natural slope rises across the property at an average angle of ~15°. The slope above the property gradually increases in grade. The slope below the property decreases in grade.
- 2.3 At the road frontage, a concrete driveway runs up the slope to a garage on the ground floor of the house (Photos 1 & 2). Fill provides a level platform for a garden/lawn area beside the driveway on the W neighbouring property. The fill is battered at stable angles. Fill terraces the slope and provides a level platform for a lawn and garden area on the downhill side of the house (Photos 1 & 3). The fill is supported by low timber retaining walls. The part two storey brick and timber clad house is supported by brick walls and brick piers (Photos 2 & 4). The supporting walls and piers stand vertical and show no significant signs of movement (Photo 5). Timber decks extend off the downhill and uphill sides of the house (Photos 2 & 4). A low concrete block retaining wall supports a cut on the E neighbouring property near the E common boundary. A stable concrete block retaining wall up to ~1.6m high supports



J4065. 8th March, 2022. Page 2.

the cut for the house (Photos 6 & 7). Roughly placed rocks line a fill directly above the retaining wall on the W neighbouring property. See 'Section 13 Ongoing Maintenance'. Low timber retaining walls support filled lawn and garden areas on the uphill side of the house (Photo 8). No signs of slope instability were observed on the property.

3. Geology

The Sydney 1:100 000 Geological sheet indicates the site is underlain by the Newport Formation of the Narrabeen Group. This is described as interbedded laminite, shale, and quartz to lithic quartz sandstone.

4. Subsurface Investigation

One Auger hole was put down to identify the soil materials. Two Dynamic Cone Penetrometer (DCP) tests were put down to determine the relative density of the overlying soil and the depth to weathered rock. The locations of the tests are shown on the site plan. It should be noted that a level of caution should be applied when interpreting DCP test results. The test will not pass through hard buried objects so in some instances it can be difficult to determine whether refusal has occurred on an obstruction in the profile or on the natural rock surface. This is not expected to have been an issue for this site. But due to the possibility that the actual ground conditions vary from our interpretation there should be allowances in the excavation and foundation budget to account for this. We refer to the appended "Important Information about Your Report" to further clarify. The results are as follows:

AUGER HOLE 1 (~RL25.3) – AH1 (photo 9)

Depth (m)	Material Encountered
0.0 to 1.6	FILL, sandy soil and clay, dark brown, brown orange, dry to moist, fine
	to medium grained.
1.6 to 1.8	CLAY, brown orange, dry to moist, stiff.

End of Hole @ 1.8m in stiff clay. No watertable encountered.



J4065. 8th March, 2022. Page 3.

DCP TEST RESULTS – Dynamic Cone Penetrometer				
Equipment: 9kg hammer, 51	Omm drop, conical tip.	Standard: AS1289.6.3.2 -1997		
Depth(m)	DCP 1	DCP 2		
Blows/0.3m	(~RL26.3)	(~RL25.3)		
0.0 to 0.3	6	4		
0.3 to 0.6	6	6		
0.6 to 0.9	7	7		
0.9 to 1.2	10	12		
1.2 to 1.5	10	10		
1.5 to 1.8	10	15		
1.8 to 2.1	19	21		
2.1 to 2.4	19	20		
2.4 to 2.7	30	18		
2.7 to 3.0	#	22		
3.0 to 3.3		23		
3.3 to 3.6		28		
3.6 to 3.9		#		
	End of Test @ 2.7m	End of Test @ 3.6m		

#refusal/end of test. F=DCP fell after being struck showing little resistance through all or part of the interval.

DCP Notes:

DCP1 – End of Test @ 2.7m, DCP still very slowly going down, grey and orange red shale fragments on dry tip.

DCP2 – End of Test @ 3.6m, DCP still very slowly going down, orange red and grey shale fragments on dry tip.

5. Geological Observations/Interpretation

The slope materials are colluvial at the near surface and residual at depth. In the test locations, the ground materials consist of fill and topsoil over clays. Fill to a maximum depth of 2.0m provides level platforms for lawn and garden areas across the property. The clays merge into the weathered zone of the under lying rock at depths from between ~2.7m to ~3.6m below the current surface, being deeper where the fill is deepest. The weathered zone



J4065.

8th March, 2022.

Page 4.

of the underlying rock is interpreted as Extremely Low Strength Shale. It is to be noted that

this material is a soft rock and can appear as a mottled stiff clay when it is cut up by excavation

equipment. See Type Section attached for a diagrammatical representation of the expected

ground materials.

6. Groundwater

Normal ground water seepage is expected to move over the buried surface of the rock and

through the cracks in the rock.

Due to the slope and elevation of the block, the water table in the location is expected to be

many metres below the base of the proposed works.

7. Surface Water

No evidence of surface flows were observed on the property during the inspection. It is

expected that normal sheet wash will move onto the site from above the property during

heavy down pours.

8. Geotechnical Hazards and Risk Analysis

No geotechnical hazards were observed beside the property. The moderately graded slope

that falls across the property and continues above and below is a potential hazard

(Hazard One).

RISK ANALYSIS SUMMARY ON NEXT PAGE



J4065. 8th March, 2022. Page 5.

Geotechnical Hazards and Risk Analysis - Risk Analysis Summary

HAZARDS	Hazard One	
TYPE	The moderately graded slope that falls across the property and	
	continues above and below failing and impacting on the	
	property.	
LIKELIHOOD	'Unlikely' (10 ⁻⁴)	
CONSEQUENCES TO PROPERTY	'Medium' (12%)	
RISK TO PROPERTY	'Low' (2 x 10 ⁻⁵)	
RISK TO LIFE	8.3 x 10 ⁻⁷ /annum	
COMMENTS	This level of risk is 'ACCEPTABLE'.	

(See Aust. Geomech. Jnl. Mar 2007 Vol. 42 No 1, for full explanation of terms)

9. Suitability of the Proposed Development for the Site

The proposed development is suitable for the site. No geotechnical hazards will be created by the completion of the proposed development provided it is carried out in accordance with the requirements of this report and good engineering and building practice.

10. Stormwater

The fall is to Therry Street. All stormwater from the proposed development is to be piped to the street drainage system through any tanks that may be required by the regulating authorities.

11. Excavations

Apart from those for footings and minor levelling, no excavations are required.

12. Foundations

The proposed granny flat is to be supported on spread footings or piers taken below the fill and embedded into the firm to stiff clays of the natural profile. This ground material is expected at depths from between ~0.5m to ~2.0m below the current surface, being deeper



J4065. 8th March, 2022.

Page 6.

 $near the \, NE \, corner \, where \, the \, fill \, is \, deepest. \, A \, maximum \, allowable \, bearing \, pressure \, of \, 200 kPa$

can be assumed for footings supported on the firm to stiff clays of the natural profile.

For better quality footings or where little movement can be tolerated in accordance with a

'Class M' site piers can be taken to Extremely Low Strength Shale. This ground material is

expected at depths from between ~2.4m to ~4.0m below the current surface. A maximum

allowable bearing pressure of 600kPa can be assumed for footings supported on Extremely

Low Strength Shale. It should be noted that this material is a soft rock and a rock auger will

cut through it so the builders should not be looking for refusal to end the footings.

As the bearing capacity of clay and shale reduces when it is wet we recommend the footings

be dug, inspected and poured in quick succession (ideally the same day if possible). If the

footings get wet, they will have to be drained and the soft layer of clay or shale on the footing

surface will have to be removed before concrete is poured.

If a rapid turnaround from footing excavation to the concrete pour is not possible a sealing

layer of concrete may be added to the footing surface after it has been cleaned.

NOTE: If the contractor is unsure of the footing material required it is more cost effective to

get the geotechnical professional on site at the start of the footing excavation to advise on

footing depth and material. This mostly prevents unnecessary over excavation in clay like

shaly rock but can be valuable in all types of geology.

13. Ongoing Maintenance

The Roughly placed rocks on the W common boundary that line a fill on the W neighbouring

property (Photos 6 & 7) are to be monitored by the owner on an annual basis or after heavy

and prolonged rainfall, whichever occurs first. A photographic record of these inspections is

to be kept. Should movement occur the fill is to be supported by an engineered retaining wall.

We can carry out these inspections upon request.



J4065. 8th March, 2022.

Page 7.

14. Geotechnical Review

The structural plans are to be checked and certified by the geotechnical engineer as being in

accordance with the geotechnical recommendations. On completion a Form 2b will be issued.

This form is required for the Construction Certificate to proceed.

15. Inspection

The client and builder are to familiarise themselves with the following required inspection as

well as council geotechnical policy. We cannot provide geotechnical certification for the

Occupation Certificate if the following inspection has not been carried out during the

construction process.

• All footings are to be inspected and approved by the geotechnical consultant while

the excavation equipment and contractors are still onsite and before steel reinforcing

is placed or concrete is poured.

White Geotechnical Group Pty Ltd.

Ben White M.Sc. Geol., AuslMM., CP GEOL.

Fellet

No. 222757

Engineering Geologist.



J4065. 8th March, 2022. Page 8.



Photo 1



Photo 2



J4065. 8th March, 2022. Page 9.



Photo 3



Photo 4



J4065. 8th March, 2022. Page 10.



Photo 5



Photo 6



J4065. 8th March, 2022. Page 11.



Photo 7



Photo 8



J4065. 8th March, 2022. Page 12.



Photo 9: AH1 – Downhole is from top to bottom.



J4065. 8th March, 2022. Page 13.

Important Information about Your Report

It should be noted that Geotechnical Reports are documents that build a picture of the subsurface conditions from the observation of surface features and testing carried out at specific points on the site. The spacing and location of the test points can be limited by the location of existing structures on the site or by budget and time constraints of the client. Additionally, the test themselves, although chosen for their suitability for the particular project, have their own limiting factors. The testing gives accurate information at the location of the test, within the confines of the test's capability. A geological interpretation or model is developed by joining these test points using all available data and drawing on previous experience of the geotechnical consultant. Even the most experienced practitioners cannot determine every possible feature or change that may lie below the earth. All of the subsurface features can only be known when they are revealed by excavation. As such, a Geotechnical report can be considered an interpretive document. It is based on factual data but also on opinion and judgement that comes with a level of uncertainty. This information is provided to help explain the nature and limitations of your report.

With this in mind, the following points are to be noted:

- If upon the commencement of the works the subsurface ground or ground water conditions prove
 different from those described in this report, it is advisable to contact White Geotechnical Group
 immediately, as problems relating to the ground works phase of construction are far easier and
 less costly to overcome if they are addressed early.
- If this report is used by other professionals during the design or construction process, any questions should be directed to White Geotechnical Group as only we understand the full methodology behind the report's conclusions.
- The report addresses issues relating to your specific design and site. If the proposed project design changes, aspects of the report may no longer apply. Contact White Geotechnical if this occurs.
- This report should not be applied to any other project other than that outlined in section 1.0.
- This report is to be read in full and should not have sections removed or included in other documents as this can result in misinterpretation of the data by others.
- It is common for the design and construction process to be adapted as it progresses (sometimes to suit the previous experience of the contractors involved). If alternative design and construction processes are required to those described in this report, contact White Geotechnical Group. We are familiar with a variety of techniques to reduce risk and can advise if your proposed methods are suitable for the site conditions.

AUTHORITY.
ALL DIRECTIONS ARE IN MILLIMETES UNLESS STATED OTHERWISE, ALL LIVELS ARE
REPRESED EN MISTRES.
FLASGENCE AND DAMPROOF COURSE TO THE PLACED BY ACCORDANCE WITH GOOD
SULLIDAG FROM PLIS MISTRES SHAWN OF THE DISTANCE NOT.
THE DAMPROOF DIS READ OF COLUMNITIES WITH SEN GENORY.

IT WANTERS CIOTES

WESTERLOS FILL SHALL BE IN ACCORDANCE WITH AS 28YD,

TEMME TRESTRESS SHALL BE IN ACCORDANCE WITH AS 28YD,

THE UNDERS COOK WARDS BARRIES SHALL BE IN ACCORDANCE WITH AS 28YD

REPORTED SHALL DOWN ON AND BE I PALICIDE AND ECONOMINE WITH AS 28YD

AS 28YD AND THE DISGRANDS PROCRAMMENTATION.

STREETURAL CONCRETS SHALL BE IN ACCORDANCE WITH AS 28KD, PRE-WINDLY CONCRETS

SHALL BE HAMMARK THESE ON ACCORDANCE WITH AS 18KD, PRE-WINDLY CONCRETS.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD, PRE-WINDLY CONCRETS.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE, DISCRAFF, CONCRETS SHALL BE AND ACCORDANCE WITH AS 18KD.

FINANCE AND AC

ALL SLARS SHALL BE CURED IN ACCORDANCE WITH AS 3600.

Masonry

PRICE SOFTLY

M. ALL CLAY BROUGH AND BROTWORK SHALL COMPLY WITH ACRUIS 4405, ASINES 4406
AND AS DOCUMENTS BROUGH BRITTO BY BIACOMERNACY WITH AS 2788.

M. CONCRETE BROUGH BRITTO BY BIACOMERNACY WITH AS 2789.
M. ALL DAMPY PROST COUNTS SHALL, COMPLY WITH AS 5700, AND AS 2800.
M. ALL CHARTY WITH A STORE, BRITTO BY ACCOMERNACY WITH AS 5700.
M. ANDREAM SHALL COMPLY WITH AS 5700, BRITTOWNS SHALL BY BIACOMERNACY WITH AS 3700.
M. ALL WALL THE SHALL BY HAMPIACTURED BY ACCOMPANICE WITH AS 2009 AND SK INSTALLED BY ACCOMPANICE WITH AS 3700.

Timber Framing

ALL THREE-FRAMINGE SAVE COMPLYWITH AS 1684.

FROM FRAMING TO BY IN ACCORDANCE WITH AS 1684.

THREE BOOK TROSES TO MANAGEMENT WERE BY BUILD AND SPECIFICATIONS.

THREE BOOK TO BE IN ACCORDANCE WITH AS 1684.

T1. CEMENT MOSTAR AND OTHER ACHIEVES SHALL COMPLY WITH AS INSELT T2. INSTALLATION OF TILES SHALL BE IN ACCORDANCE WITH AS INSELT

Claddings & Linings

C1. THE LIMBS OF WET AREA WALLS SHALL BE CONCRUCTED IN C2. ACCORDANCE WITH AS SIVE. ALL INFERROD WITH AREAS AND BRICCORES OVER REMARTABLE FOCUMS TO BE WATER PROSIDED TO ALL STAIL.

7. ALL INTERNAL AND EXTERNAL TERRIS DOOR AND DOOR SETS SHALL BE IN ACCORDANCE WITH AS THREE TRANSPORTED DOOR SAND DOOR SETS SHALL BE MANUFACTURED IN ACCORDANCE WITH AS THREE AND AS TAKE.
72. ALL GRAZING STALL COMPLY WITH AS TOBE.

Steel Framing

ALL STREE, FRAMENG INCLUDING FLLORS, WALLS AND ROOF FRAMENG SHALL RE-INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS 5423.

Roofing

CONCRITE AND THE ACCUTA THE E SHALL COMPLY WITH AS 2449 AND BE INSTALLED IN ACCORDANGE WITH AS 2450.

METAL REMAINERS CORDS SHALL BE IMMERIATURED BY ACCORDANGE WITH AS 2179.

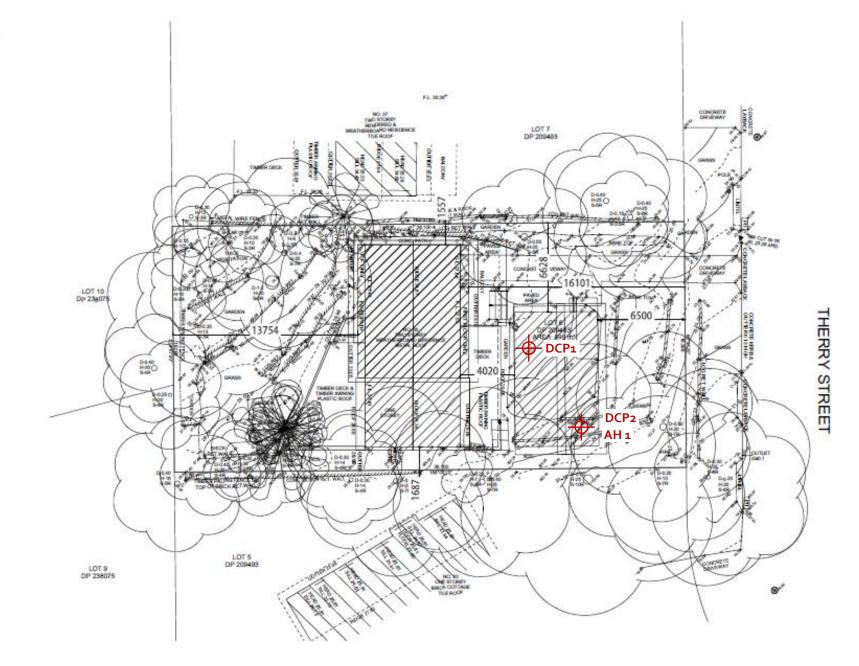
AND INSTALLED IN CONCRITE AND SHALL STREAM.

SAME INSTALLED IN CONCRITE AND SHALL STREAM.

AND ACCURATE AND SHALL SHALL COMPLY WITH AS 2504, AS 1804.

AND ACCURATE ACCURATE AND THE ACCURATE SHALL COMPLY WITH AS 2504, AS 1804.

AND ACCURATE ACCURA



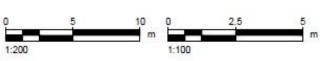
SITE PLAN - PROPOSED

SCALE 1:200

GENERAL NOTES

BUILDER TO CONFIRM ALL LEVELS AND DIVENSIONS ON SITE BEFORE WORK BEGINS

ALL WORK TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES REQUIREMENTS AND B.C.A. REQUIREMENTS.



THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. IF USED FOR CONSTRUCTION. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR LOCAL CODE COMPLIANCE, ALL DRAWINGS, RLANS, SKETCHES ETC. ASS PROVIDED TO DUR CLIENTS BASED UPON INFORMATION PROVIDED BY THE CLIENT AND DRAWN IN ACCORDANCE WITH COMPONENT AND COMPANY AND ACCORDANCE WITH COMPONENT AND COMPONENT AND CONTRACTOR SERVICE OF EXPERTING SERVICE OF EXPERTING ASSUMED. SECURITY AND CONTRACTOR SERVICE OF EXPERTING SERVICE OF EXPERTS SERVICE OF EXPERTING SERVI

ARCHITECTURAL DRAFTING 3D VISUALISATION DEVELOPMENT APPLICATION ASSISTANCE COUNCIL COMPLIANT PLANS

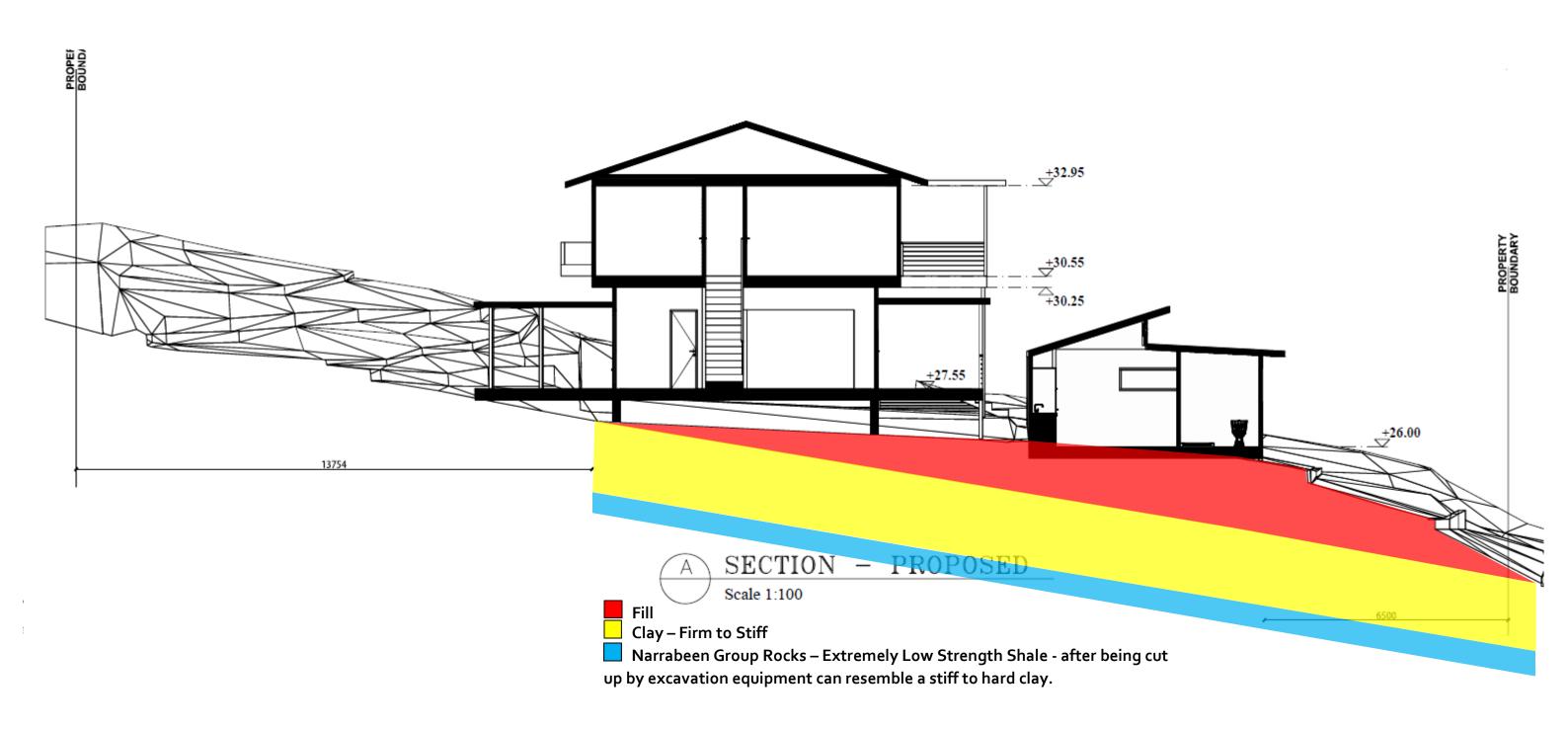
EXISTING BUILDING DUTLINE PROPOSES WORK

DP No. 208483 LOT No. 8

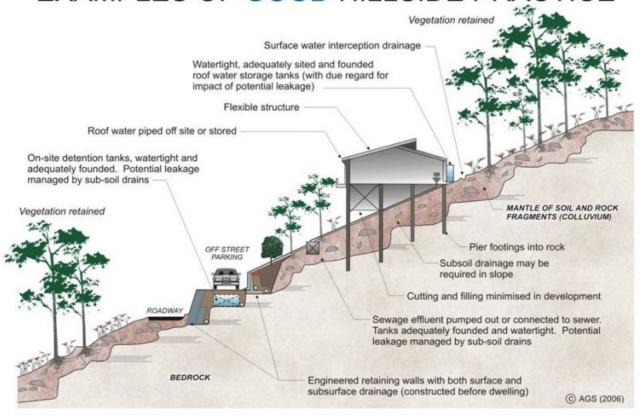
ISSUED FOR DA XXXX

O DRAFTING HELP 5/470 Sydney Rd Belgowish 2093 NSW www.draftinghelp.com.au 02 07703474

> PETER STEWART 35 THERRY ST AVALON BEACH NSW 2107



EXAMPLES OF GOOD HILLSIDE PRACTICE



EXAMPLES OF POOR HILLSIDE PRACTICE

