

Construction Certificate Determination

issued under the Environmental Planning and Assessment Act 1979 Section 109C (1) (b), 81A (2) and 81A (4)

Certificate No. 2006/1297

Council	Pittwater
Determination	Approved
date of determination	30 May 2006
Subject land	
Address	19 Crane Lodge Place, Palm Beach
Lot No, DP No.	Lot 3 DP 31294
Applicant	
Name	Mr P Bristow
Address	PO Box 395, Brookvale NSW 2100
Contact No. (phone)	0417 040 136
Owner	
Name	Mr Paul Bristow & Mrs Heather Bristow
Address	19 Crane Lodge Place, Palm Beach NSW 2108
Contact No. (phone)	0417 040 136
Description of Development	
Type of Work	Alterations and additions to an existing dwelling only
Builder or Owner/Builder	
Name	A.G.H. Constructions Pty Ltd
Contractor Licence No/Permit	177421 <i>C</i>
Value of Work	
Building	\$250,000.00

Attachments



- 1. Copy of completed Construction Certificate
 Application Form
- Pittwater Council receipt nos. 190431 and 189408 for payment of Long Service Levy

Plans & Specifications certified

List plans no(s) & specifications Reference

- Architectural Plans and Construction Specifications, reference no. 0514 A/01, prepared by Atelier Haefeli Pty Ltd, dated September 2005
- Structural Details, reference no. 2005-176/01A, prepared and endorsed by Burgess, Arnott & Grava Pty Ltd, dated 13 April 2006
- 3. Copy of Sydney Water Approval dated 27/3/06
- 4. Certificate of structural adequacy prepared by Robert Grava, Structural engineer.
- Stormwater drainage plan Ref 2005-167/01A dated 13 April 2006 prepared by Burgess, Arnott & Grava Pty Ltd
- 6. Soil & water management plan Ref 2005-167/02 dated Sept 2005.
- 7. Roof colour schedule RefAA dated May 2006

Certificate

I certify that the work if completed in accordance with these plans and specifications will comply with the requirements of S81A(5) of the Environmental Planning and Assessment Act 1979.

Signed

Date of endorsement Certificate No.

2006/1297

Certifying Authority

Name of Accredited Certifier Accreditation No. Accreditation Authority

Contact No. Address Stephen Pinn POO40 Dept of Infrastructure, Plann

Dept of Infrastructure, Planning & Natural Resources (NSW Accreditation Scheme)

(02) 9999 0003

13/90 Mona Vale Road, Mona Vale NSW 2103

Development Consent

Development Application No.

Date of Determination

N0644/05

4 November 2005 (modified 24 March 2006)

BCA Classification

1a

Pittwater Council

OFFICIAL RECEIPT

13/04/2006 Receipt No 19043:

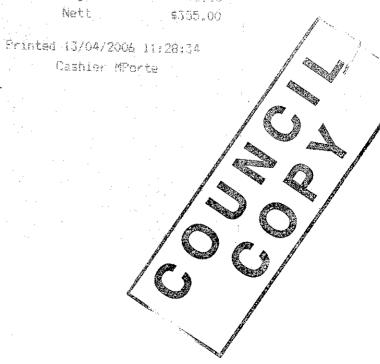
To Paul Bristow

19 Crane Lodge Place Palm Beach

Applic	Reference :	Amount
GL Re	QLSL-Buil 1 x M0644/05:19	\$355.00 Crane Lor

Total:		Ŷ.	TVE.	.00
Amounts	Tendered			
Cash			ğ(),	ÚÜ.
Cheque		\$.	55.	00
Db/Cr Caro			₽. (),	00
Money Order			\$ 0,	00
Agency Rec			\$0.	(بن
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Pittwater Council

OFFICIAL RECEIPT

23/03/2006 Receipt No 189408

To PAUL BRISTON

P O BOX 395 BROOKVALE NSW 2100

Applic	Reference	• ‡	Amount
GL Re	GLSL-Buil		\$474.00
	t X D/A N0644/05		

1000	
Amounts	Tendered.
Cash	\$0.00
Cheque	\$474.00
Db/Cr Card	\$0.00
Money Order	\$0,00
Agency Rec	\$0,00
Total	\$474.00
Rounding	\$0.00
Change	\$0.00
Nett	\$474.00

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SUBMISSION REQUIREMENTS

A. GENERAL Are the plans submitted with the Construction Certificate Application in accordance with the Development Consent? Yes 🗸 No 🗌 Have all the conditions of Development Consent relating to the issue of the Construction Certificate been fully complied with? yes U No 🗆 If you have answered NO to either of the above questions, then you will need to speak with the Accredited Certifier BEFORE LODGING YOUR APPLICATION. ALL PROPOSALS (has the following required information been submitted?) Not In the case of an application for a Construction Certificate for No Applicable building work: Three (3) copies of detailed architectural plans and specifications The plan for the building must consist of a general plan drawn to a scale not less than 1:100 and a site plan drawn to a scale not less than 1.200. The general plan of the building is to: a) show a plan of each floor section b) show a plan of each elevation of the building show the levels of the lowest floor and of any yard or unbuilt on area belonging to that C) floor and the levels of the adjacent ground d) indicate the height, design, and full construction details indicate the provision for fire safety and fire resistance (if any) Where the proposed building work involves any alteration or addition to, or rebuilding of, an existing building, all copies of the general plan are to be coloured or otherwise marked to the satisfaction of the Council to adequately distinguish the proposed alteration, addition or rebuilding with a separate letter listing the proposed changes being submitted. 3 copies of a specification: to describe the construction and materials of which the building is to be built and the method of drainage, sewerage and water supply b) state whether the materials proposed to be used are new or second hand and give Where the proposed building work involves a modification to previously approved plans and specifications the general plans must be coloured or otherwise marked to the satisfaction of the Accredited Certifier to adequately distinguish the modification. If the proposed building work involves a modification to previously approved plans and specification which were subject of a Development Consent, has the original Development Consent been modified by Council? Except in the case of an application for, or in respect of domestic building work: a list of any fire safety measures that are proposed to be implemented in the building or on the land on which the building is situated, and if the application relates to a proposal to carry out any alteration or rebuilding of, or addition to, an existing building, a separate list of such of those measures as are currently implemented in the building or on the land on which the building is situated. This list must specify the standard of design of each of those fire safety measures to which they were originally installed. This list must describe the extent, capability and basis of design of each of the measures concerned. Copy of BASIX Certificate & Report. All other documentation to satisfy conditions of Development Consent.

HOME BUILDING ACT 1989 (as amended) OWNER/BUILDER REQUIREMENTS

Applicants for work at a residential property with a value of work over \$12,000 require insurance as specified in the Home Building Act 1989.

Owner Builder's require Property Owner Builder's Permit issued by the Department of Fair Trading for all projects over \$5,000. In addition to this permit all projects valued in excess of \$12,000 may also require a contract of insurance under the provisions of the Home Building At 1989 as amended. This requirement will take effect should the property owner offer the property for sale in the ensuing period of 7 years.

Enquiries on any matters relevant to this section should be taken up with the Department of Fair Trading at Level 21, Astra House, 227 Elizabeth Street, Sydney (ph. 133220).

LONG SERVICE LEVY (applies to all classes of buildings)

A Long Service Levy at 0.35% of the cost of works is payable on projects valued \$25,000 or more. This sum can be paid directly to the Long Service Payments Corporation or to Council acting as an agent to the Corporation. Partial exemption from the levy may be granted to non profit organizations, churches and to owner/builders. The levy may also be paid in instalments. Application forms for these exemptions are available from Council but all enquiries in this regard should be address to the Long Service Payments Corporation.

THE CONSTRUCTION CERTIFICATION CANNOT BE ISSUED UNLESS THE LONG SERVICE LEVY AND HOME BUILDING ACT 1989 INSURANCE (APPLICABLE TO RESIDENTIAL PROPERTIES) HAVE BEEN PAID, OR EVIDENCE OF THE EXEMPTION PROVIDED TO COUNCIL

What is the area of the land (m²)?	Gross floor area of building (m²) as proposed:
900 M2 to	APPROX 75M2
What are the current uses of all or parts of the building(s)/land? DOMESTIC/RESIDENTIBL	Location: 19 CRANE LODGE PLACE PALM BEACH Use: 2108 RESIDENTIAL
Does the site contain a dual occupancy?	What is the gross floor area of the proposed addition or new building (sq metres)? OPPROX 75 m2
What are the proposed uses of all parts of the building(s land? LIVING	Number of pre-existing dwellings:
Number of dwellings to be demolished: $NoNE$	How many dwellings proposed?
How many storeys will the building consist of?	Will the new building be attached to the existing building? $\forall \mathcal{E} \mathcal{S}$
	Will the new building be attached to any new building?

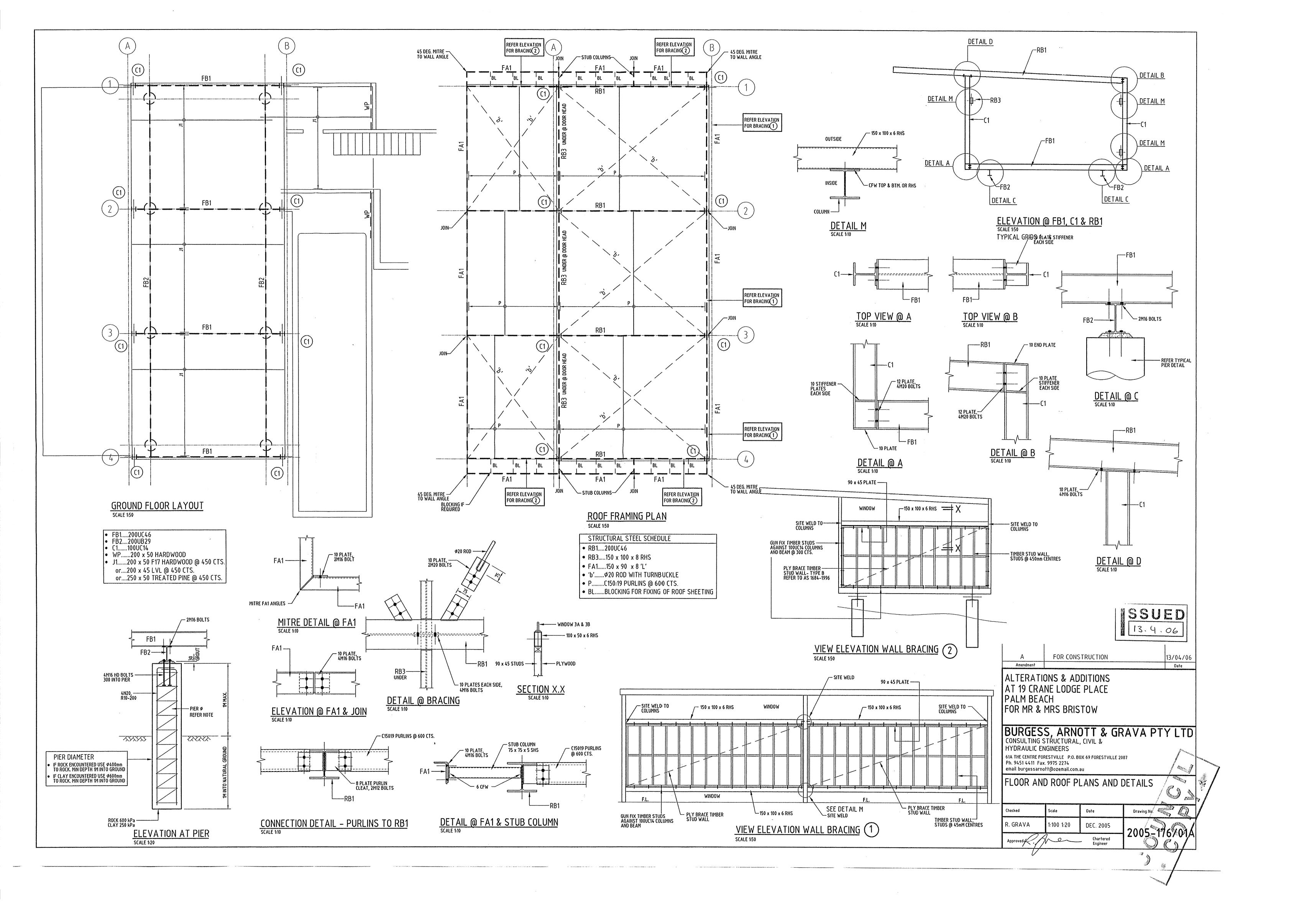
Place a tick ($\sqrt{}$) in the box which best describes the materials the new work will be constructed of:

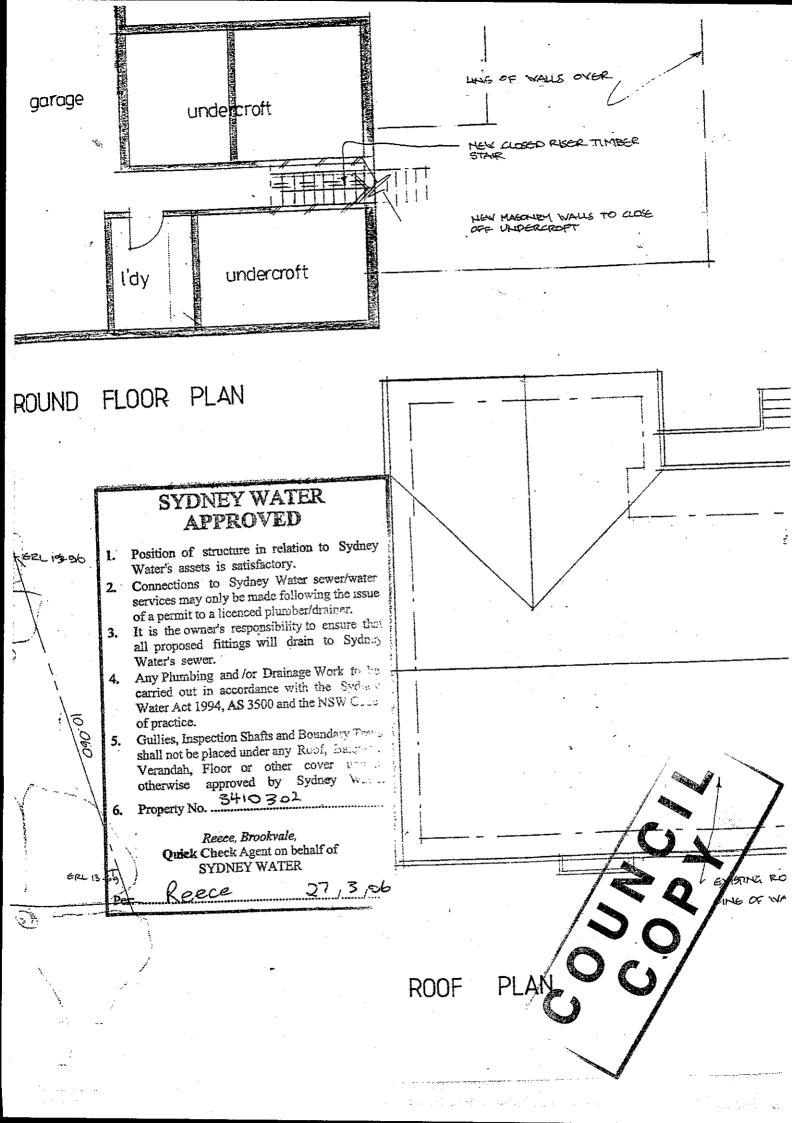
WALLS Brick veneer		FLOOR Concrete	ROOF Aluminium	FRAME Timber	
Full brick		Timber	Concrete	Steel	X
Single brick		Other	Concrete tile	Other	
Concrete block		Unknown	Fibrous cement	Unknown	
Concrete/masonry			Fibreglass	٠	
Concrete		•	Masonry/terracotta shingle		
Steel			Tiles	•	
Fibrous cement			Slate		
Hardiplank			Steel		
· Timber/weatherboard	\bowtie		Terracotta tile		
Cladding-aluminium			Other		
Curtain glass		•	Unknown		
Other		·			
Unknown					

APPLICATION FOR A CONSTRUCTION CERTIFICATE

1. Applicant's details It is important that we are able to contact you if we need more	re information. Please give us as much details as possible
Given Names (or ACN) Family N	ther ame (or Company)
PAUL Postal Address (we will post all mail to this address) $Po \ Box \ 395$	570W
BROOKVACE	NSW Posti Code 2100
	-54-04
estimation sections are simpled on this form. It me property is	company the form must be signed by an authorized director and the a unit under the strata title or a latin a community title, then in addition
signed by the Chairman or Secretary of the Body Corporate or Owner(s)	Te must be stamped on this farm over the signature of the annual in
PAUL BRISTOW HEAT! Address 19 CRANE LODGE PLACE	WER JANE BRISTOW
PALM BEACH	NSW 2108
As owner(s) of the land to which this application relates. I/We Certifying Authority and/or Accredited Certifier to enter the Signature(s)	consent to this application. I/We also consent for the Principal land to carry out inspections relating to this application.
Without the owners consenture will not a constitute the	Ekwih /
levidence (eg. power of attarney, executor, trustee, company dir	This is a very strict requirement for all applications. If you are signing ust state the nature of your legal authority and attack documentary rector, etc).
Location of property	
19 CRANE LODGE Suburb PALM BEACH	Sess log
Legal Property Description (these details are shown on your nate	- /20 ^{2/108}
Lot no. DP no.	: notices, property dease (a)

4. Description of works and the state of the	The Court Court of
What type of work do you propose to corry out?	
Please describe briefly everything that you want approved	
CONSTRUCTION CERTIFICATE	
FOR APPROX 75 M2 ADDITION	VOF
GROUND FLOOR EXTENSION	
5. Estimated cost of work	
The estimated cost of the development or contract price may be subject to review	
Estimated cost by work : \$ 2 63 ,000-00	
6. Development Consent. 18. 22. 31. 11. 12.	
Council Consent no. NO644/05 Date of Determination	4/11/05
7. Building Code of Australia classification	(5)
This can be found on the development consent BCA Classification	1(4)
8. Builder's details :	
if known to be completed in the case of residential building work	
Name A. G. H. Constructions Phy LAN License	no. 177421C
Owner/builder permit to	
9. Applicant's declaration	
I apply fortig Construction Certificate to carry out building works as described the information in this application and discollist is, to the best of my knowledg	in this application. I declare that all e, true and correct;
Signature and a superior of the superior of th	Date of season state of the season se
Market KAR, AR	23/03/06





BURGESS ARNOT

Consulting, Civil, Structural & Hydraulic Engineers

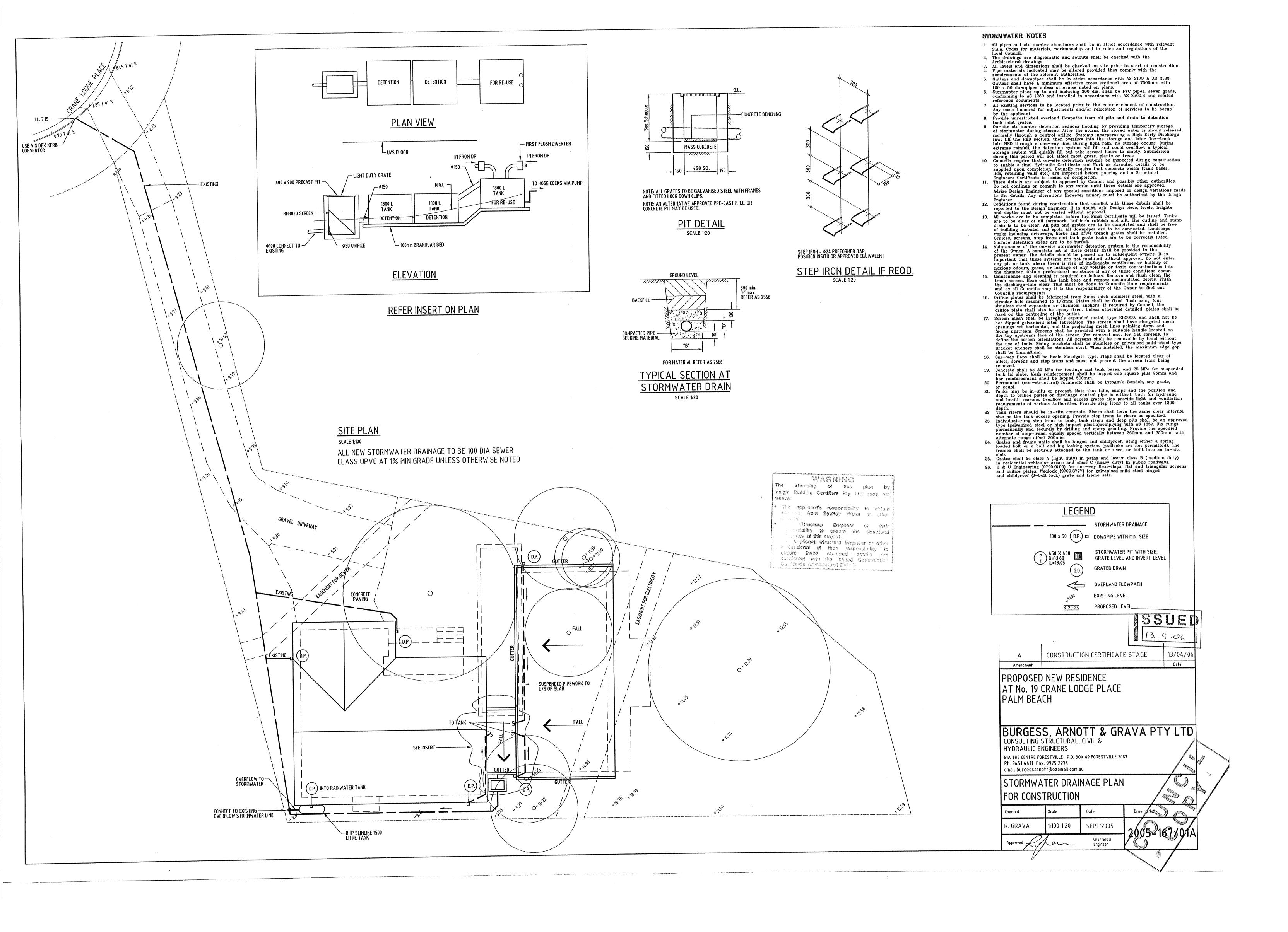
MR Paul Bruston 19 Crone Loolge Place Palm Beach.

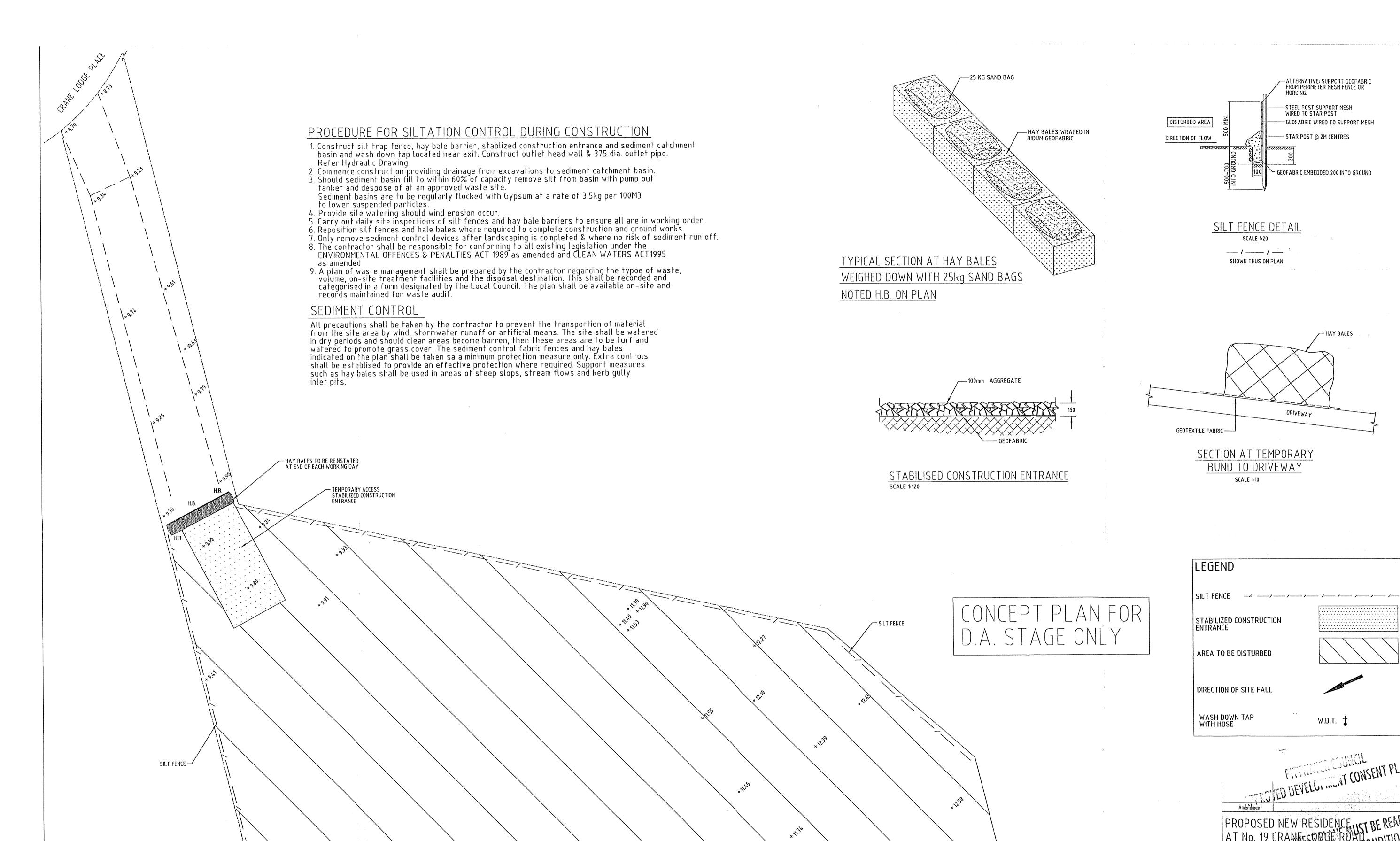
Rt. Additions to Rear of 19 Cranelodge Place Palm Beach.

We adore that the existing Loure structure will safely support any loads imposed by the prepared addition at the near

Lokest granae. LOBERT GRAVA B.E ME QUED. CP. ENG.

61A The Centre, Forestville, N.S.W., 2087 • P.O. Box 65 h: 9451 4411 ~ 9451 6772 • Fax: 9975 2274 • Email: burgessarnort@ozemail.com.au





BURGESS, ARNOTT & GRAVA PTY LTD CONSULTING STRUCTURAL, CIVIL &

HYDRAULIC ENGINEERS

Ph. 9451 4411 Fax. 9975 2274

Checked

R. GRAVA

email burgessarnott@ozemail.com.au

61A THE CENTRE FORESTVILLE P.O. BOX 69 FORESTVILLE 2087

SOIL AND WATER MANAGEMENT

1:100 1:20



EXTERNAL ROOF COLOUR SCHEDULE

Address:

19 CRANE LODGE PRACE PALM SEACH.

COLORBOND "WINDSPRAY"

REF AA

May 2006

COLORBOND® steel Range

Whatever your lifestyle, wherever you live, there's a COLORBOND® steel solution for your

Specification

ALTERATIONS + ADDITIONS

19 crane lodge place, palm beach for Mr. and Mrs. BRISTOW

december 2005

Atelier Haefeli Pty. Ltd. 474 Barrenjoey Road tel: 9918 3341

Avalon

Chartered Archite

PRELIMINARIES 1A.00 SCOPE OF WORKS 1A.01

The Works being the alterations + additions to 19 crane Lodge Place, Palm Beach including:

internal arrangements to provide a new entry

addition to the north to provide new kitchen, dining, living, laundry / guest wc.

The Builder shall visit the site to ascertain the full extent and nature of the site and the proposed works.

The Builder shall deemed to have:

- examined all the information made available for the purpose of tendering

 examined all the information relevant to the risks, contingencies and other circumstances which could affect his tender and which is obtainable by making reasonable enquiries.

examined the site and its surroundings

- informed himself as far as practicable of all relevant physical conditions at or near the site.
- informed himself as far as practicable of the nature of the work and materials necessary for the work under the Contract, the means of access to and facilities at the site.

BUILDER'S RESPONSIBILITY

All work shall be carried out in accordance with all current Building codes, By-laws, current SAA codes and the requirements of Pittwater Council. The Builder shall be responsible for ensuring that all operations and methods of construction, materials and workmanship are safe, sufficient and in accordance with the Contract Documents.

All materials shall be new and good quality and shall be suitably protected during the progress of the Works. Workmanship shall be to first class standards.

The Builder shall take all necessary precautions to:

protect the site from theft and vandalism

determine the location of and safeguard any existing services.

The Builder shall be responsible for making good damage to roads, paving, surfaces, fencing etc. without cost to the Proprietor. Provide and maintain all temporary services necessary for the execution of the works; pay charges, disconnect and dismantle on completion.

CLEANING UP

1A.03

1A.02

Keep the works clean and tidy as it proceeds and regularly remove from the site rubbish and surplus material arising from the execution of the Works including any work performed during the Defects Liability Period.

<u>GUARANTEES</u>

1A,04

The Builder shall obtain and shall ensure that the Proprietor will have the benefit of warranties or guarantees as specified, including those obtained by the sub-contractors of the Builder. Unless otherwise specified or agreed, they shall name the Proprietor as warrantee and shall be furnished by the Warrantor direct to the Proprietor.

PRACTICAL COMPLETION

1 A 05

Without prejudice to the meaning of the term 'Practical Completion' in the Conditions of Contract, the following are given as an indication only of the degree of completeness to be expected:

- the requirements of Local and other Authorities have been complied with

- all major items of plant, sheds, temporary fences have been removed from the site

 removal of all rubbish and unused materials relating to the Works, leaving Works neat, tidy and dry

 employ professional cleaners to clean the inside of the building and both sides of all glazing

remove trade names, manufacturers, suppliers and installers names from all items,

finishes etc.

- all services are completed, commissioned and fully operational, with certificates of approval from all relevant authorities
- siteworks have been completed.

EXCAVATOR 2A.00 EXCAVATION 2A.01

All trees are to be retained except those nominated for removal on the approved drawings, and the Builder shall take all precautions when working around all tree roots so as not to damage root structure. Obtain approval from Architect prior to lopping or trimming existing trees.

Allow for excavating in other than rock. DO NOT EXCAVATE OR FILL ANY section of the site other than as shown on the drawings or as required for drainage lines.

Excavate generally as required including but not limited to trim the excavation to allow for varying slab thickness and sub-base to bring finished floors up to levels detailed and also footings, footing beams, service lines, sumps etc.

The Builder shall remove all unwanted material from the site as and when directed. No rubbish is permitted to be buried an the site.

TERMITE PROTECTION 2A.02

Apply termite protection measures sim. and equal to Termimesh's advice and recommendations to be carried out by a specialist and a written guarantee shall be furnished by the Builder stating that the treatment has been carried out in accordance with AS 3660.

The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums for the Termite Protection.

 DRAINAGE
 2B.00

 GENERALLY
 2B.01

The whole of the Work shall be carried out by a licensed plumber in accordance with the rules and regulations of the Water Board and all Local Government requirements. Pay to the relevant authorities all fees and charges necessary.

Obtain certificates from authorities indicating satisfactory completion of services and hand over to the Architect prior to Practical Completion.

All materials shall be of the best quality and type of their kind. They shall conform to the requirements of the latest relevant specifications of the Standards Association of Australia.

STORMWATER DRAINAGE 2B.02

Stormwater from new work is to connect into existing system and to Council's satisfaction. The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums for Water Tanks and Connection ie. to connect above ground stormwater tanks a detention system as detailed on the engineer's drawings.

SEWER DRAINAGE 2B.03

Extend sewer drainage system as required for new work and make connections to existing sewer to Council's satisfaction.

CONCRETOR		2C.00
GENERALLY	·	2C.01

All concrete work shall be carried out strictly in accordance with the latest edition of Consulting Engineers Concrete Specification and relevant Concrete Codes and as shown on the Structural and Architectural drawings.

No concrete shall be placed until the inspection by the Architect and / or Engineer has been made and all work approved. (At least two 2 days notice)

FOUNDATION PIERS + FOOTINGS

2C.02

Form as necessary, reinforce and pour foundation piers to details shown on the Engineers drawings. Where poured in trenches, formwork may be omitted provided earth does not encroach within the beam and the dimensions are to be controlled within the tolerances for the type of finish specified.

WATERPROOFING

2C.03

In laundry, supply and install to manufacturer's written instructions and to AS CA55, an approved PVC membrane waterproofing system similar and equal to April Showers.

INSITU CONCRETE FINISHES

2C.0

Insitu concrete shall be finished in accordance with the following schedule. Surface finishes are defined in Section 10 of the ASCE Specification.

ELEMENT	FORM CLASS	FINISH TYPE	TOLERANCE
Areas for			
pavers		scratched	class C
Areas for ceramic tiles		scratched	class C
Areas for trowelled	ì		
finish		steel trowelled	class B
Concrete work exposed			
to view	2	A	
All concrete concealed			
from view	5		

FORMWORK

20 04

Formwork shall be such as to produce concrete to the shapes, lines and dimensions required as shown on the drawings and within tolerances. All as defined in Section 2 of the ASCE Specification. NOTE: Where concrete is exposed to view provide for 18mm chamfer to all edges.

BRICK + BLOCKLAYER	2D.00
STANDARDS	2D.01

All materials and workmanship shall conform to the following standards and codes:

SAA Masonry Code	AS 3700
SAA Brickwork Code	AS 1640
Clay Building Bricks	AS 1225
Mortar for Masonry Construction	AS A123
Wall Ties for Masonry Construction	AS 2699
Bituminous Damp-proof Courses with Metal Centre	SAA Int 326

STEELWORKER + METALWORKER 2E.00 STANDARDS 2E.01

All materials and workmanship shall conform to the following standards and codes:

Galvanised Coatings AS 1650
Welding Code AS 1554

Preparation and Pretreatment of Metal Surfaces prior to Protective Coating

e Coating AS 1627

STRUCTURAL STEEL

2E.02

Supply and install hot dipped galvanised structural steelwork to the sizes and details shown on the structural engineer's drawings.

ALUMINIUM WINDOWS AND DOORS

The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums for the Supply and Installation of Aluminium Windows and Doors.

Finish to be clear marine grade anodised. Louvred windows to be similar and equal to 'Breezeway' system.

CHANNEL DRAINS

2E.Q4

Supply and install 100mm wide stainless steel grated drains in the locations and to the extent shown on the drawings. Grated drains to be similar and equal to Dux platinum stainless steel grate and frame.

FLOOR WASTES

2E.05

Supply and install floor wastes in the locations shown on the drawings. Floor wastes to be similar and equal to 'Rimo' round in chrome finish supplied by Inc Ware, 16a Wellington Street, Waterloo, tel: 9319 0882.

CARPENTER + JOINER

2F.00

STANDARDS

2F.01

All materials and workmanship shall conform to the following standards and codes:

Methods of Test for TimberAS 1080Timber Frames and Sashes for WindowsAS 1275Code of Practice for Construction in Timber FramingAS 1684Timber Engineering CodeAS 1720Timber DoorsAS 2688

MATERIALS

2F.02

Timber shall be straight, sound, well seasoned and free from significant defects. All timber shall be branded and pass examined for white ants and borers.

Joinery timber shall be as specified and of the best clear grade quality, quarter sawn for doors, frames and similar sections.

Particleboard shall be customwood or similar conforming to AS 1859.

WORKMANSHIP

2F.03

Perform all work accurately in accordance with the best trade practice.

Use timber in single lengths whenever possible. Dress all visible surfaces except where specified sawn. All external fixings shall be stainless steel as appropriate.

Timber stacks on site shall be placed on level bearers clear of the ground. Protect all timber from sun and weather. All joinery work shall be protected from damage during delivery to the site or progress of the work by wrapping in polythene film.

WALL FRAMING+CLADDING

2F.04

Frame up for wall over the new areas to the extent as shown on the drawings and to the sizes and types of timbers listed on structural engineers drawings.

Frame up for new walls timber studwork to the relevant Australian Standards to receive external dadding.

External cladding to be similar and equal to 'Shadowclad groove' climate primed from Carter Holt Harvey. All to be fixed in strict accordance with manufacturer's instructions.

Supply and fit insulation similar and equal to 'Aircell' between studs from Demand Insulation.

Walls to be lined with 13mm thick plasterboard except in wet areas - line with 6mm compressed fibreboard.

Supply and lay R3.0 'air cell' or similar on ceilings.

EAVES LINING

2F.06

Supply and fix 6mm compressed fibre board sheeting to underside of eaves. Joints to have small bevelled edges. Ensure joints are under rafters.

FLOORING

2F.07

Supply and fix new floor beams and joists to engineer's details. Make good existing timber floor. Sand all entry, living, lobbies 1 + 2 flooring to AS CA39, stop with matching filler, fine sand and leave ready for clear tung oil finish.

Timber boarding shall be 90mm wide select blackbutt secret nailed. Sand all flooring to AS CA39, stop with matching filler, fine sand and leave ready for clear tung oil finish.

TIMBER ARCHITRAVES

2F 08

Timber architraves are to be as detailed. Where timber, punch all nail heads and plug with mastic wood.

DOOR FURNITURE

2F.09

The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums. The sum covers the Supply Only of all door furniture except for internal sliding door track and but hinges which shall be supplied by the Builder.

JOINERY FITTINGS + FIXTURES

2F.10

Supply and install the following joinery items to the extent and dimensions as shown on the drawings:
- laundry cupboards

Finishes are as noted on the drawings. Handles to be provided by Proprietor and the Builder to allow for fitting.

The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums for the front door.

Kitchen to be done by others.

Services are to brought to locations as shown on the drawings.

ROOFER + ROOF PLUMBER

2G.00

STANDARDS

2G.01

All materials and workmanship shall conform to the following standards and codes:

Metal Roofing

AS 1562

Metal RoofingAS 1562Reflective Foil LaminateAS 1903Installation of Reflective Foil LaminateAS 1904Metal Rainwater GoodsAS 2179Selection + Installation of Metal Rainwater GoodsAS 2180

GUARANTEES

2G.02

The Builder shall obtain a written guarantee from the firm supplying and fixing the roof stating that any defects that may arise during a twenty year period shall be made good and any making good shall be done at the sole expense of that firm supplying and fixing the roof.

A copy of the guarantee shall be lodged with the Architect on completion of the work.

The period of the guarantee starts from the date of Practical Completion.

2G.03

The Builder shall ensure that the shape of the roof structure is satisfactory for the fixing of metal sheeting, free of dips, hollows etc.

Carry out all necessary operations for the satisfactory performance of the roof, including cutting at junctions, trimming around the penetrations and flashings.

Fix to supports with approved fasteners as per the manufacturers recommendations or as shown on the drawings. Roof sheets shall project a minimum of 50mm into gutters.

Roofs and gutters shall be swept clean of all debris (nuts, screws, cuttings, fillings etc.) using a soft broom, at least at the end of each day's work and particularly on completion of fixing.

Avoid water run-off from copper to aluminium, zinc or galvanised steel and zincalume to galvanised steel.

Make adequate provision for thermal movement in the installation of roof assemblies.

METAL ROOFING

2G.04

Steel roofing where shown shall be Lysaght's colorbond Klip-lock 406. Colour to be 'windspray'. Allow for insulation blanket.

Reflective foil vapour barrier shall be a foil laminate, double sided, low flammability, with one antiglare surface complying with AS 1903.

GUTTERS + DOWNPIPES

2G.05

Gutters and fixing brackets to be similar and equal to Creeks Metal Industries with half round gutters being 125mm wide colorbond zincalume finish half round section fixed with Type A2 heavy half round brackets.

Downpipes to be 100mm diameter colorbond zincalume discharging into a grated gully - 250x250mm minimum cast iron grate.

Proprietor to supply and fit leaf guard system similar and equal to Leafscreener Pty. Ltd.

FLOOR FINISHES

2H.00

PREPARATION + WORKMANSHIP

2H.01

The Builder shall be responsible for timely achievement of satisfactory moisture content in slabs receiving floor finishes.

All floors to be paved or tiled shall be left in scratch coat or sparrow picked or fine scabbled before work commences unless they are to receive waterproofing and screed.

All areas to be cleaned and free of laitance, dust or foreign matter and thoroughly dry.

FLOOR TILES

2H.02

The Proprietor shall Supply selected ceramic floor tiles. The Builder shall allow for the laying of tiles complete with all cement, sand, colouring and accessories. Tiling extents are shown on the drawings. Tiling to finish flush with adjacent floor finishes. Minimum bed at floor wastes or elsewhere to be 15mm.

After tiles are set, thoroughly wash and grout with similar mortar and approved proprietary admixture, clean off all stains and polish the tiles with a clean dry cloth.

Keep all unnecessary traffic off tiles and protect until handing over by taping down building paper or polythene sheeting.

DIVISION STRIPS

2H.03

Supply and securely fix stainless steel division strips a minimum of 25mm high by 3mm thick at the junctions of differing floor finishes, to be located centrally beneath closed doors.

WEATHER BARS

2H.04

Supply and fix brass weather bars to external doors as detailed. Weather bars to be a min. 50mm high x 4mm thick, securely screw fixed to concrete floor slab with flashing behind.

WALL FINISHES 2J.00 STANDARDS 21.01 All materials and workmanship shall conform to the following standards and codes: Adhesives for Ceramic Tiles AS 2358 Ceramic Tiles and Fittings BS 1281 **Wall Tiling** BS 5385 WORKMANSHIP 2J.02 Each surface to be rendered shall be thoroughly cleaned of any oil, dust or loose material which may prevent the formation of a satisfactory bond. Cover sheets shall be used to protect areas from staining or damage due to droppings or splashings. Any such damage shall be made good by the Builder. CERAMIC WALL TILES 2J.03The Proprietor shall Supply wall tiles. The Builder shall allow for fixing including all materials such as adhesives and grout. Tiling types are shown on the drawings. Finish external corners with mitred joints. All tiles to be adhesive fixed using Aba thin flexible adhesive as recommended by the distributors of the tile. Grout all joints in approved grouting mixture and thoroughly clean and polish tiles after completion. PLASTERBOARD WALL LINING 2J.04 Line internal walls with 13mm plasterboard sheeting except in wet areas - line with 6mm fibre cement sheets. Tape and set all joints, wall angles and set all fixings. Finish external angles with 25x25x0.5mm perforated galvanised steel angle, fill and set. **CEILING FINISHES** 2K.00 **STANDARDS** 2K.01 All materials and workmanship shall conform to the following standards and codes: Preferred Sizes **AS 1224** Gypsum Plasterboard AS 2588 Application and Finishing of Gypsum Plasterboard AS 2589 **GENERALLY** 2K.02 All ceiling finishes shall be true and straight to give uniformly level surfaces without bumps or waves. SUSPENSION SYSTEM 2K.03 Where a suspension system is used, it shall be sim. and equal to Gyprock or Rondo Plasterboard Suspended Screw-up Ceiling System conforming to AS 2785. Fix suspension system strictly to the manufacturer's directions and recommendations for taking 13mm plasterboard lining. Form all bulkheads where shown and reinforce edges with 30x30mm continuous galvabond angles. Allow for trimming for all mechanical and air conditioning registers

PLASTERBOARD CEILINGS

2K.04

Supply and fix 13mm plasterboard lining to profiles and areas as shown on the drawings. Supply and fix preformed corners for the bulkheads and raked ceilings to achieve crisp and straight lines. Trim for access panels, air conditioning registers, mechanical exhaust registers, grilles and light fittings and finish edges of plasterboard to access openings or manholes with stopping angle trim mitred at corners. Supply and fix as detailed plaster shadowline stopping angle trim, at junctions of ceilings to walls, sim. and equal to Rondo part P50.

and diffusers.

GLAZIER

2L.00

STANDARDS

2L.01

Generally all glazing work shall be in accordance with BCA and the following standards:

Rules for Minimum Design Loads on Structures

AS 1170

Installations of Glass in Buildings

AS 1288

Safety Glazing Materials for use in Buildings

AS 2208

SAFETY GLASS

2L.02

The glass shall be in laminated or toughened clear safety glass to comply with safety regulations and of the thickness recommended or nominated by code.

PAINTER

2M.00

STANDARDS

2M.01

All materials and workmanship shall conform to the relevant Australian Standards and Codes including:

Zinc rich Organic Priming Paint Wood Primer Undercoat Glossary of Paint Terms Guide for Painting of Buildings

AS 2204 AS 2301

AS 2302 AS 2310

AS 2311

EXTENT OF WORK

2M.02

The Builder shall allow for the complete painting of all new Works including affected areas in the existing house with the exception of the following:

- items specified to be factory of prefinished
- metals plated or specifically finished for appearance

The Builder shall allow for the painting of the new works internally including living, kitchen, laundry, dining. The intent of this section is that all surfaces of the building, other than those excluded shall be finished with an appropriate coating system, inclusive of all work and materials necessary to produce a satisfactory result. No variation will be made for alleged additional work unless it can be shown that the necessity goes beyond the intent of the specification.

MATERIALS

2M.03

All materials shall be approved standard proprietary products of first quality brought onto the site in sealed containers branded with the manufacturer's name and type of contents. Materials which are defective or not in accordance with this specification shall be removed from the site immediately upon request.

COLOURS + SAMPLES

2M.04

Differing colours may be selected for individual walls, ceilings, trims, doors, cupboards or any other distinct elements of the building. A schedule of colours will be provided prior to commencement of painting work.

Paint 1 sq. metre sample areas of all different painted surfaces and different paint types and obtain written approval from the Architect before proceeding. Allow for painting samples before ordering paint in bulk.

WORKMANSHIP

2M.05

Before starting to paint in any section of the building, clean it thoroughly and protect against entry of dust. Use drop sheets wherever necessary to protect finished work and any surfaces or fixtures liable to damage from Builder's work

Paint top and bottom of doors with two (2) coats before fixing doors in position. Final coatwork shall be free of dust marks, dust, stains, paint runs or other blemishes.

PREPARATION OF SURFACES

2M.06

Ensure that all surfaces are in a fit and proper condition to receive the coatings specified. Imperfections are to be made good prior to painting.

Generally clean down, remove all foreign matter including grease, dust and dirt, fill cracks and holes, fine down and leave smooth. The whole surface must be thoroughly dry before coating commences. If there is mould or moss on the surface, treat it with appropriate fungicide.

INTERNAL PLASTERBOARD

2M.07

All internal plasterboard shall be sealed, undercoated and finished with two coats acrylic paint.

EXTERNAL WOODWORK

2M 0

External woodwork shall be cleaned down to remove traces of wax, grease, dirt and grime. Finish with selected exterior grade finish applied in accordance with manufs. instructions.

INTERNAL WOODWORK

2M.09

Existing timber is to be made good where required. Internal woodwork shall be sandpapered smooth and clean.

All new painted woodwork shall have priming coat the punched holes etc. filled and then given one undercoat and two coats of full gloss enamel.

EXTERNAL STEELWORK

2M.10

ALL external steelwork to be thoroughly cleaned down and inspected for rust. Treatment of rust coat to be approved by Architect. Finishing coats to be similar and equal to 'Ferrador' by Dulux.

EXTERNAL FIBRE CEMENT

2M 11

External fibre cement soffit linings including eaves soffits, bulkheads etc. shall be sealed and given paint finish similar and equal to Murowash. Samples to be provided.

ON COMPLETION

2M.12

All work shall be uniformly finished as to paint build-up, texture, degree and colour. Work showing poor build up, poor coverage or unevenness of finish or colour shall be recoated to a finish or colour satisfactory to the Architect.

Work showing bad brushwork, unevenness of texture or other blemishes shall be cut back with wet and dry rubbing paper in mineral turpentine to a smooth surface and recoated again to the satisfaction of the Architect.

On completion all tins, debris and the like shall be removed from the site, paint spots removed, floors cleaned, glass cleaned, windows to be eased, doors checked and all furniture refitted.

HYDRAULIC SERVICES

2N.00

EXTENT

2N.01

The extent of the Hydraulic work shall include all necessary pipework and fittings to complete the works to the satisfaction of Authorities and covers:

- 1. Stormwater drainage including detention tanks
- 2. Sanitary drainage and plumbing
- 3. Hot and cold water services to all fittings
- 4. Installation of sanitary fixtures and fittings

<u>AUTHORITIES</u>

2N,02

The whole of the works shall be carried out by a fully licensed plumber to the standards and regulations of the Water Board, local authority and BCA. Pay all relevant fees and charges, make all tests as required. Obtain certificates from authorities indicating completion of services.

MATERIALS + WORKMANSHIP

2N.03

The Builder shall be responsible for taking all dimensions on site before commencing work.

All materials shall be the best quality and type of their kind. They shall conform to the requirements of the latest relevant specification of the Standards Association of Australia.

Coordinate installation of pipework with other types of trade services.

EXCAVATION

2N.04

Carry out all excavation and backfilling of trenches as required or indicated. Backfill over the pipe collar shall be to 150mm and then selected excavated fill.

DRAINAGE

2N.05

Supply and install all sanitary and stormwater drainage to connect all fixtures and downpipes respectively as indicated. Downpipes are to discharge into water tanks as per hydraulic drawing. Sanitary drainage is to connect to the existing sewer which has to be extended to suit new bathroom arrangements. It is to be installed in approved materials to the rules and regulations of the Water Board.

Stormwater drainage is to terminate at existing Council stormwater lines.

SANITARY PLUMBING

2N.06

Sanitary plumbing shall be installed in UPVC pipework with all exposed plumbing being chrome plated copper waste pipes. Stacks and vents shall be installed in accordance with the Water Board regulations and shall have access panels fitted as required.

Vents shall be UPVC pipework and rise to the roof level with approved flashing. Floor waste grates a.b.s. shall be positioned as approved by the Architect.

DOMESTIC HOT WATER

2N.07

Disconnect redundant piping and extend as required to connect to new fittings.

DOMESTIC COLD WATER SERVICE

2N.08

Extend from the Water Board meter to all fixtures and draw off points as nominated on the drawings. Pipework shall be installed in copper tube and shall be sized to accommodate the simultaneous operation of all shower outlets and to the rules and regulations of the Water Board. Do not cover or conceal underground or enclosed work until it has been inspected and tested. Locate in accessible positions with adequate clearance pipe fittings requiring maintenance or servicing.

SANITARY FIXTURES + TAPS

2N.09

Install all sanitary fixtures and appliances connected to the Hydraulic Services. The Proprietor shall supply the fittings. Provide all fixings, necessary cutting, securing brackets to walls, levelling and connection to various services required for satisfactory operation.

Allow for installing the following sanitary fittings and taps:

LOCATION

<u>FIXTURES</u>

TAPS

Ground Floor Level

Kitchen

stainless steel sink

sink set

Dishwasher (byProp)

concealed hot + cold connection

Fridge

concealed cold water connection

Laundry Stainless steel tub

swivel spout with telescopic extension

Washing mach.

(by Prop.)

wall mounted recess cocks with coupling for

washing machine

WC suite

control cock

Extend gas service to serve the following:

cooktop

barbeque to outdoor area

ELECTRICAL SERVICES	2P.00
GENERALLY	2P.01

The Electrical work is to be carried out by a licensed electrician, strictly in accordance with the current S.A.A. Wiring Rules and with all the special requirements of the local supply authorities.

ELECTRICAL SERVICES

2P.02

The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums for the connection of electrical services from the street to the meter box and switchboard to the various electrical points.

Lights shall be supplied by the Proprietor.

CONNECTION OF APPLIANCES

2P.03

The house will be fitted with the following permanently connected appliances which will be supplied by the Proprietor.

Provide all wiring and allow for final connections as follows:

Kitchen

- refrigerator, oven, microwave, dishwasher, cooktop (ignition switch

only), exhaust fan

Laundry

- washing machine, dryer

SWIMMING POOL

2Q.00

The Builder shall allow for and include in the Tender Price the amount stated in the Schedule of Monetary Sums for the construction of the swimming pool.

SCHEDULE OF MONETARY SUMS

3A.00

The Builder shall allow for and include in the Tender Price the following Monetary Sums for work associated with and as specified. The Builder shall allow for attendance, allowances + profit.

ITEM	CLAUSE NUMBER	AMOUNT
Termite Protection	2A.02	\$ 3,000.00
Stormwater Drainage	2B.02	\$ 3,500.00
Aluminium Windows + Doors	2E.03	\$40,000.00
Door Furniture	2F.09	\$ 3,000.00
Front Door	2F.10	\$ 1,500.00
Electrical Services	2P.02	\$15,000.00
Swimming Pool	2Q.00	\$50,000.00

WORK TO BE DONE BY OTHERS

3A.01

For the information of the Builder the following is a list of work to be done by others:

- kitchen
- carpet

