

103 kenny street wollongong nsw 2500

p: 4226 6305 f: 4226 6306

e: info@inspec.com.au abn: 49 080 593 371



and Determination

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

Certificate Number:

P2173

Address:

LOT 115 DP1043971 12 ACACIA CIRCUIT WARRIEWOOD

**Development Consent:** 

N1016/02

**Date of Consent:** 

4 March, 2003

This Construction Certificate has been determined as **APPROVED** in accordance with the procedures outlined in Clause 142 of the Environmental Planning and Assessment Regulation 2000. In making this determination I certify that the work if completed in accordance with the plans and specifications referred to in this Certificate will comply with the requirements of the Environmental Planning and Assessment Regulation, 2000 as referred to in Section 81A(5) of the Environmental Planning and Assessment Act, 1979 (as amended).

## <u>Plans/s</u>

ARCHITECTURAL PLANS PREPARED BY COSMOPOLITAN LIVING, SHEETS 1/5, DATED NOVEMBER 2002, REVISION D. DRWG NO:115/C-00, 115/SP-1, 115/GF-2, 115/E-3, 115/E-4, 115/SE-5. LANDSCAPE PLANS PREPARED BY COSMOPOLITAN DEVELOPMENTS, DRWG NO:1591-LP-06, 1591-LP-07, 1591-LP-08, ISSUE A.

## Specification/s

GENERAL HOUSING SPECIFICATIONS, PREPARED BY HIA.

## Other Documents

ENGINEERS PLANS PREPARED BY APPLEYARD FORREST, SHEETS 1/7, DATED 28/03/03, JOB NO:333268, REVISION A. HYDRAULIC PLANS PREPARED BY RAFELETOS ZANUTTINI, SHEET 1, DATED 28/05/03, JOB NO:CP1C496.
MANAGEMENT PLAN PREPARED BY RAFELETOS ZANUTTINI, SHEET 2, DATED 28/05/03, JOB NO:CP10496.
HOME BUILDERS INSURANCE LONG SERVICE LEVY RECIEPT OWNERS CONSENT FORM 7

Paul Gearin Accredited Certifier BSAP/Planning NSW

1104

4 June, 2003

Date of Determination

anding & Construction Industry LONG SERVICE PAYMENTS CORPORATION

Ground Floor, Corner Donnison & Baker Streets Gosford NSW 2250 Telephone: 13 14 41 Facsimile: (02) 9287 5685

## LEVY PAYMENT FORM

0246739

All correspondence to: Locked Rag 2000, copp.	<u>0246739</u>
All correspondence to: Locked Bag 3000, CCDS, Lisarow NSW 2252  Part A - DETAILS OF PERSONS/COMPANY/OSS	PLEASE PRINT ALL DETAILS USING CAPITA
Part A - DETAILS OF PERSONS/COMPANY/ORGANISATIONS LIA	24 - 16 1750 F
Given Names (if person)	
I COLAL ADDRESS THE THE TABLE TO THE TABLE THE TABLE TO T	
No. and Street or P.O. Box	
Town/Suburb MODECBANK	
State N/S N/Poster 13	
Part B - ADDRESS OF BUILDING/CONSTRUCTION WORK	one No. 950TRABROTO
TOUR WORK	
No. and Street 122ACAC12C02	
Town/Suburb WARRIE TOWN State OF SVA Protected Town	
13 O 4 4 o stcode	
Estimated Start Date	
Part C - DETAILS OF WORK - To be completed by consenting/certifying auth	ated Finish Date III/DII/2004
Local Council Area  O A C C /C R C No.	nority with whom plans lodged for approval
(D.A.)C.C./C.D.C. No.	
(circle which) INC QUE 6 Q 2	
Estimated value of work \$1,000,220,000:88	Levy \$ \( \bar{\bar{\bar{\bar{\bar{\bar{\bar{
Date: 5/6	103,
Rusingen House	Phone No. A 2 5 7 6 7 6 7 7 7
L. II OU approved by Private Certifier council by (Private Certifier)	
Irt D - DETAILS - To be completed by Dept./authority where applicable - see re	verse
Dept./Authority	
Contract No Contract Amount Contract Amount	
CTED BY SECURITY FEATURES, INCLUDING A MICRO PRINTED SIGNATURE LINE; THE	ABSENCE OF THIS MAY
COSMOPOLITAN MACQUARIE BAN	Macquaria Coah Ma
CONSTRUCTIONS 300 QUEEN STREET BRISBANE O	DLD Macquarie Bank Limited
THE SUM OF	060411
Four Hundred and Forty Dollars Only	
	DATE 3/06/03  WECOUNT PARE ONLY  WATER ONLY  STATE 3/06/03  STATE 3/06/03
	\$****440.00
THE LONG SERVICE PAYMENT CORP	For and on behalf of COSMOPOLITAN CONSTRUCTIONS PTY LTD ABN 73 076 666 610
LOCKED BAG 3000 CENTRAL COAST NSW 2252	6
	Mr. Comments
""OGO411" 184m445" 1990 /	///



Ph: 02 9439 9340 Fax: 02 9439 9287

> Emali sma@tpg.com.au 79 Zig Zag Lane, Crows Nest, NSW, 2065

26<sup>th</sup> May, 2003

Pittwater Council PO BOX 882 MONA VALE NSW 1660

Attn: General Manager

Re: COMPLYING COMPONENT CERTIFICATE

**FOR** 

LOTS 1011 AND 1012 BANKSIA PARADE, WARRIEWOOD LOT 113 MAHOGANY DRIVE, WARRIEWOOD LOT 114 ACACIA CIRCUIT, WARRIEWOOD LOT 115 ACACIA CIRCUIT, WARRIEWOOD LOT 116 ACACIA CIRCUIT, WARRIEWOOD LOT 117 ACACIA CIRCUIT, WARRIEWOOD

As a qualified Landscape Architect, I certify that the Landscape Plan complies with the conditions, as stated for the development application:

'B45. Three sets of detailed landscape working drawings, which comply in all respects with the conditions of development consent, are to be submitted prior to release of the Construction Certificate. Each plan/ sheet is to be certified by a qualified Landscape Architect/ Landscape Designer/ or Horticulturist, confirming that the plans/ details provide for the works to be carried out in accordance with Development Control Plan No. 23 – Landscape and Vegetation Management.

'B45a. In particular, the landscape working drawing is to provide full details of the following:

1. the usage of the demires the demires

1. the usage of the dominant tree species growing in the area of locally indigenous species.

all existing trees and vegetation to be retained, removed and proposed, including canopy spread, trunk location and condition.

5. the proposed finished treatment of garden areas, including soil depth and mulching details;

- c. At least two (2) canopy trees within the front yard and one (1) canopy tree in the rear yard, which at maturity achieve a canopy height greater than 8.5metres, to visually reduce the height, bulk and scale of the building. All canopy trees are to have a minimum container size at time of planting of 45 litres, with a minimum trunk diameter
- d. Understorey planting of species which, after five years from the date of issue of the occupation certificate will in conjunction with the canopy planting, screen 50% of the built form on each lot when viewed from the street, consistent with the draft Warriewood Valley Development Control Plan. In order to achieve this objective, all understorey planting is to have a minimum container size of 200mm at the time of
- e. Details of all existing trees and vegetation to be retained, removed and proposed, including canopy spread, trunk location and condition.
- f. A plant schedule including stratum, species/ common names, species, numbers, pot size at time of planting and proposed staking details.
- g. A schedule of materials (including such elements as turfing, edging, walling, paving and fencing).
- h. The proposed finished treatment of garden areas, including solid depth and mulching details.
  - i. The location of underground/ overhead services.
  - j. Details of any automatic watering system.
- Landscaping plans are to be in accordance with the landscape plans prepared by Paul Scrivener Architect.
- 'B48. The landscape plan is to incorporate a landscape maintenance strategy for the owner/ occupier to administer over a 12 month establishment period. This strategy is to address irrigation, soil testing, weeding, plant staking, fertilising, pest and disease

Yours faithfully, Scott Murray and Associates

Elizabeth Read **Landscape Architect** 



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## Gustralian Bureau of Statistics

## **OUR REFERENCE**

## P2173

## **THE AREAS**

The Site (m2): Existing Building (m2): The Proposal (m2):

510.6 264.8

## THE EXISTING

Location:

LOT 115 DP1043971 12 ACACIA CIRCUIT WARRIEWOOD NSW 2102

Use: No. of Existing Dwellings:

Residential - TWO STOREY DWELLING & ATTACHED GARAGE.

## THE PROPOSAL

Location:

LOT 115 DP1043971 12 ACACIA CIRCUIT

Use: **Dual Occupancy:**  WARRIEWOOD NSW 2102

Residential - TWO STOREY DWELLING & ATTACHED GARAGE.

No. of Proposed Dwellings:

No 1 2

No. of Storeys:

## THE MATERIALS

Walls: Floors: Roof: Frame:

Brick Veneer Concrete Concrete Tile Timber



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## **Application Form**

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

**APPLICANT** 

NAME:

COSMOPOLITAN CONSTRUCTIONS

ADDRESS:

1/4 IRAKING STREET MOOREBANK NSW 2170

CONTACT NO./S:

96018498

SIGNATURE:

SEE ATTACHED CONSENT

**OWNER** 

NAME/S:

COSMOPOLITAN CONSTRUCTIONS

ADDRESS:

1/4 IRAKING STREET

MOOREBANK NSW 2170

CONTACT NO./S:

96018498

SIGNATURE/S:

SEE ATTACHED CONSENT

LAND TO BE DEVELOPED

LOT 115 DP1043971

12 ACACIA CIRCUIT

WARRIEWOOD NSW 2102

**DESCRIPTION OF DEVELOPMENT** 

RESIDENTIAL TWO STOREY DWELLING &

ATTACHED GARAGE.

**BCA CLASSIFICATION** 

1A

**DEVELOPMENT CONSENT** 

N1016/02

4 MARCH, 2003

**VALUE OF WORK** 

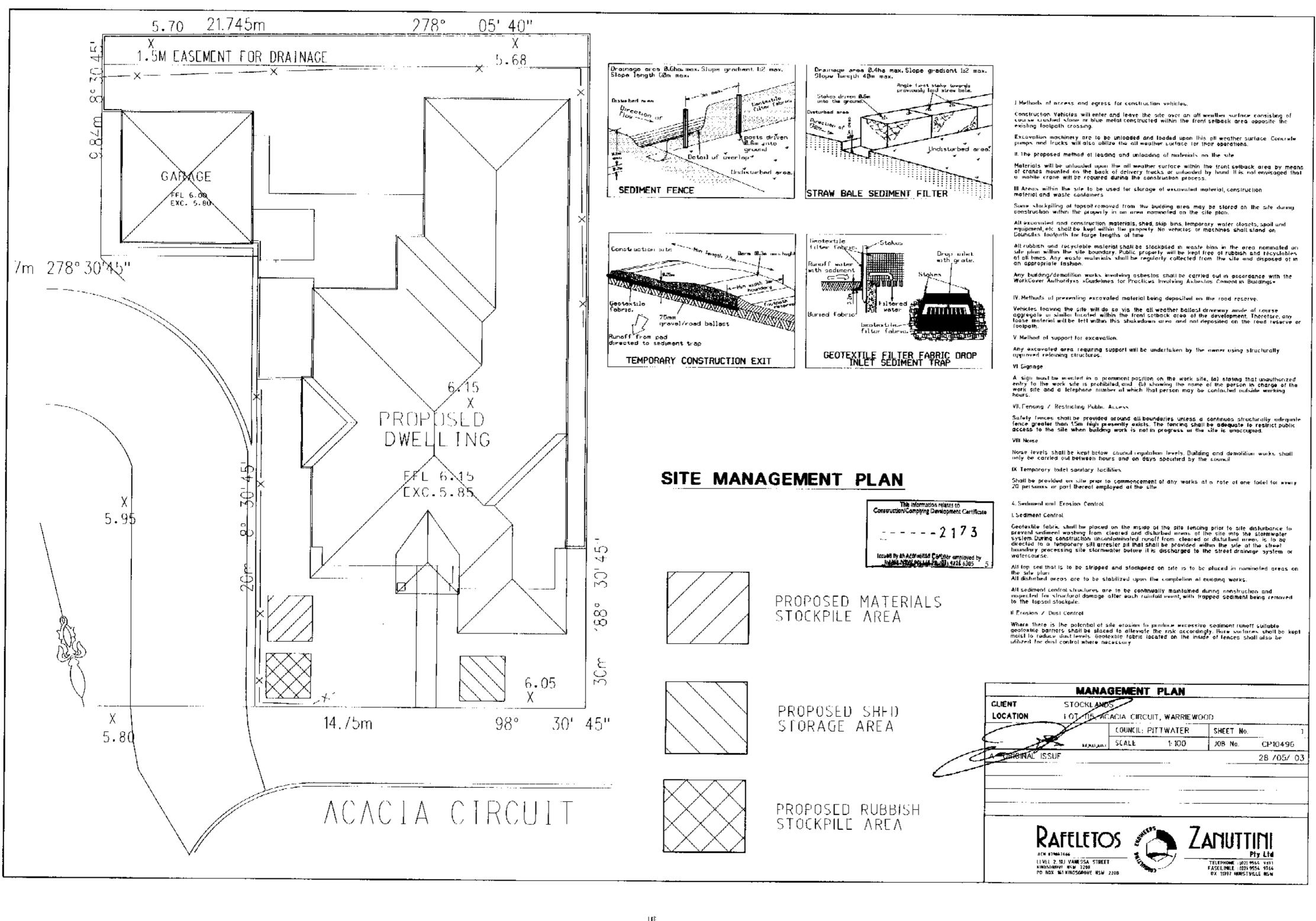
\$220,000

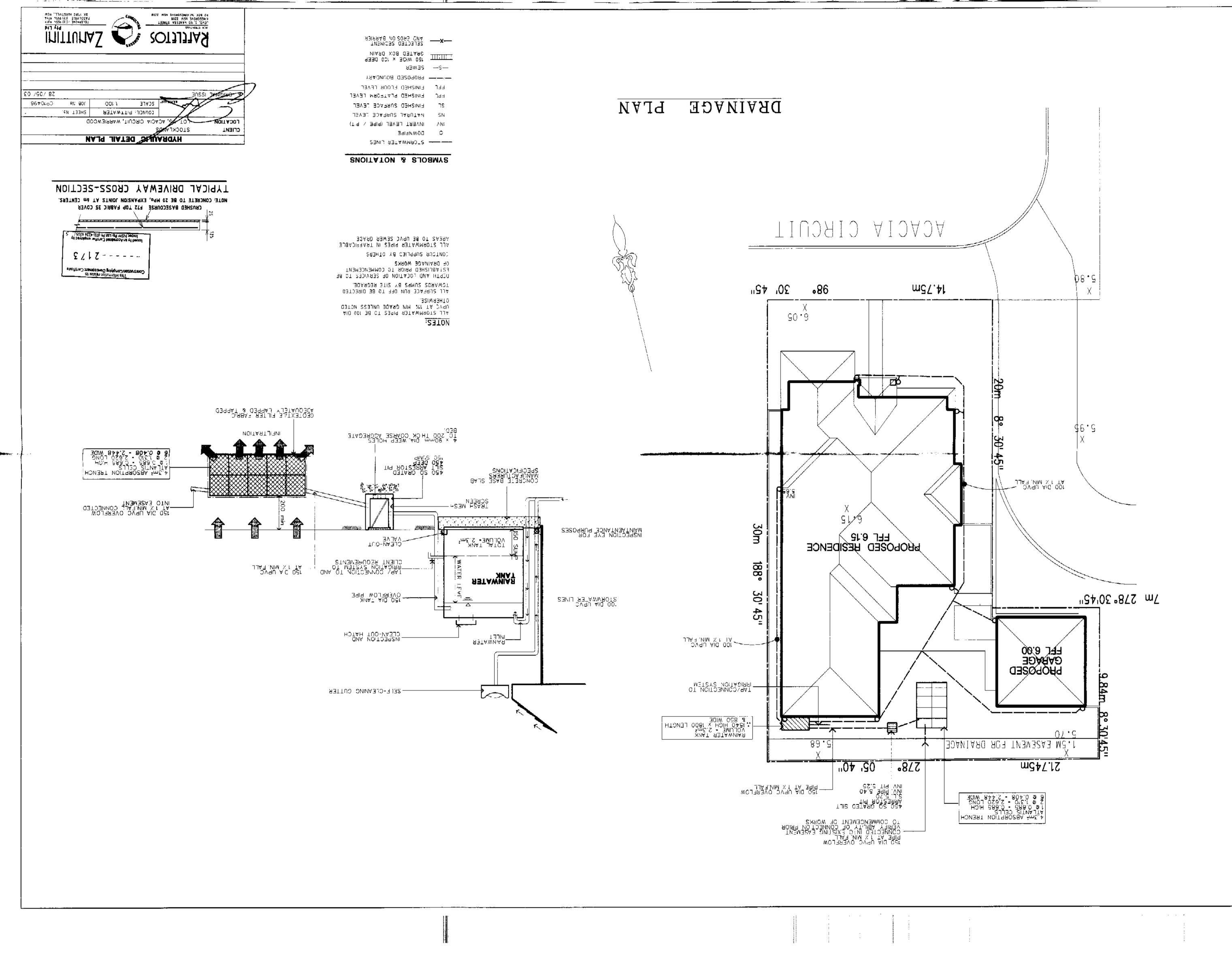
**BUILDER/OWNER BUILDER DETAILS** 

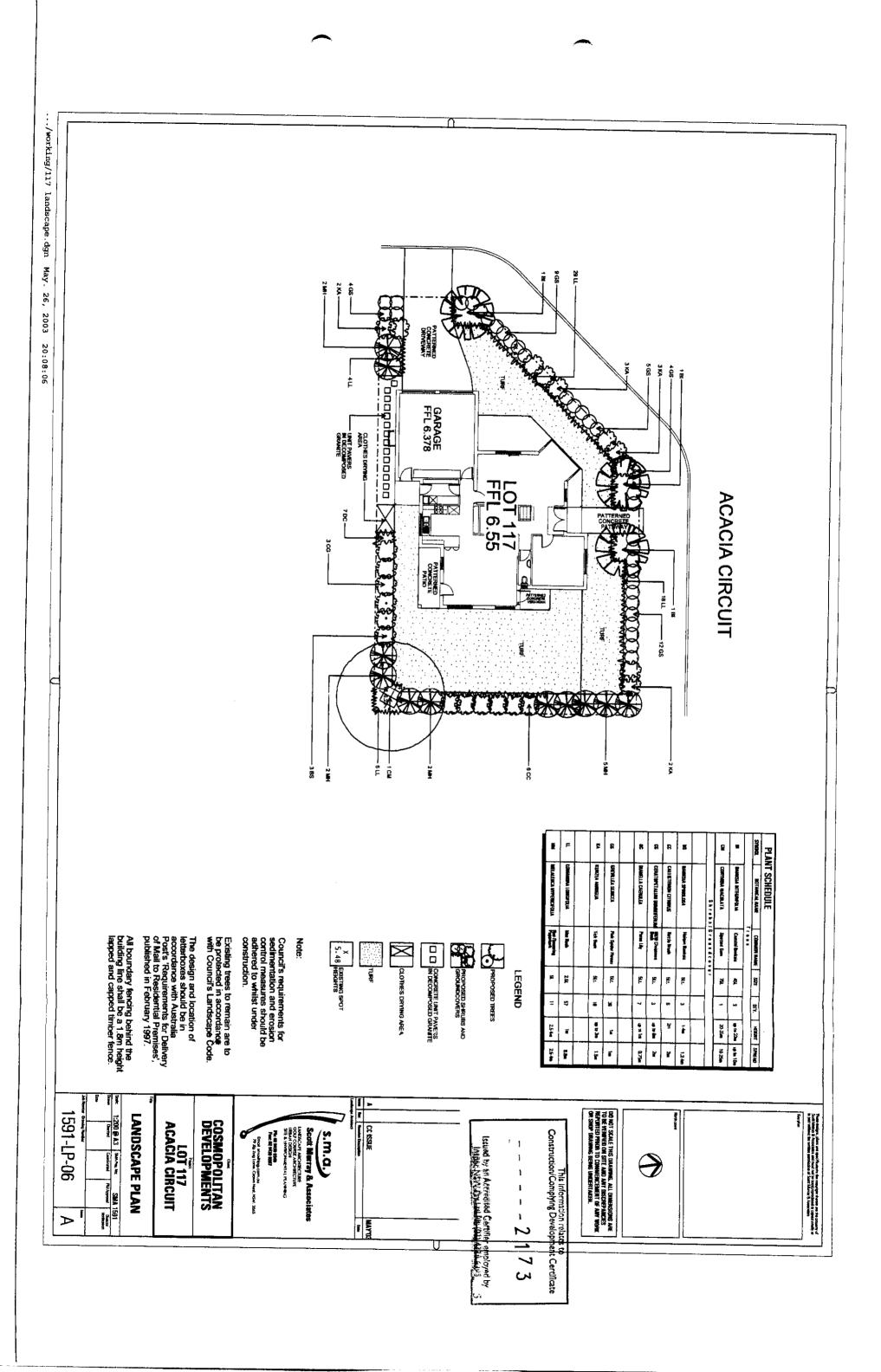
COSMOPOLITAN CONSTRUCTIONS

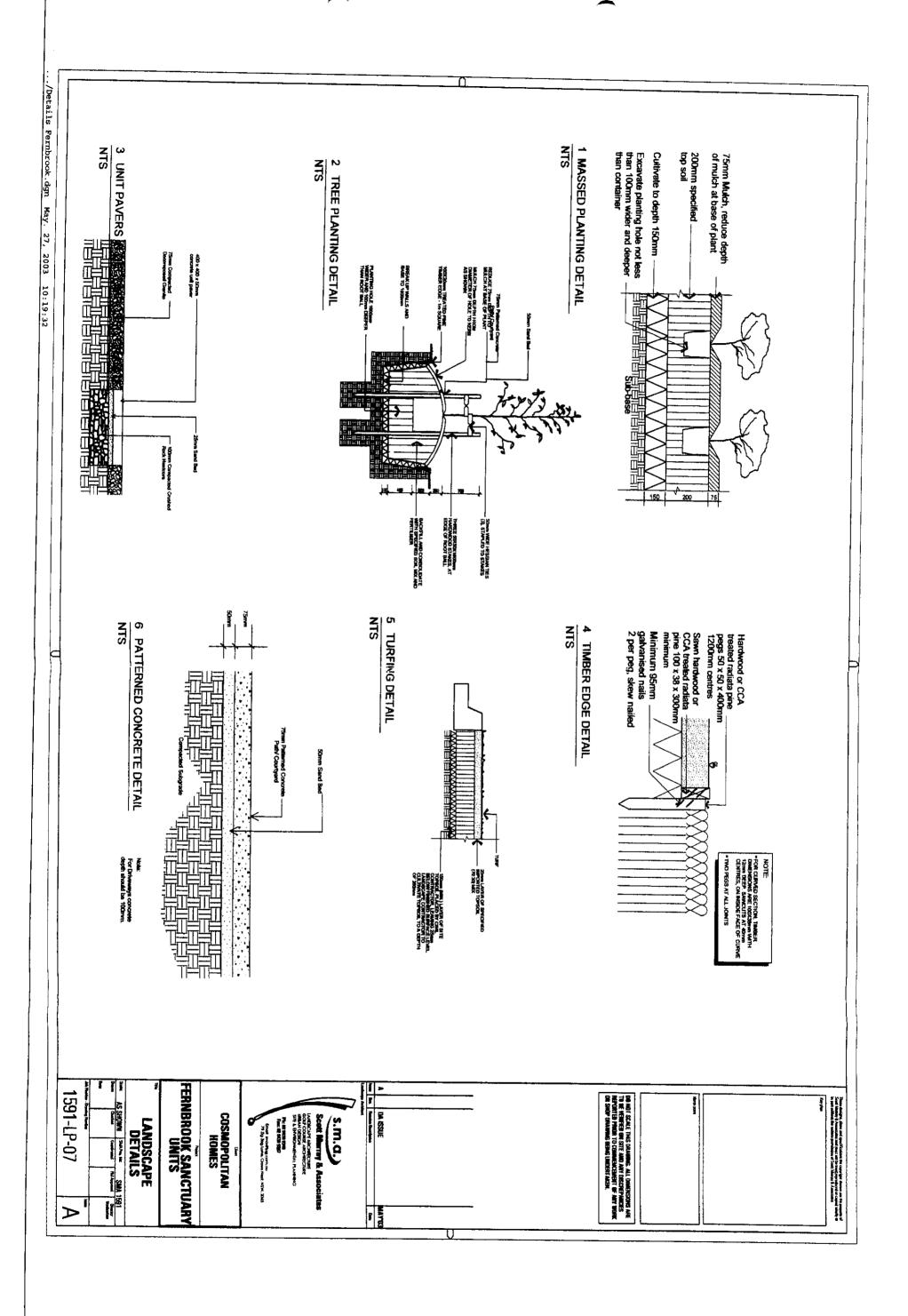
DATE OF RECEIPT

4 JUNE, 2003









## LANDSCAPE WORKS SPECIFICATION

## PRELIMINARIES

- 1.01 Protection of Adjacent Finishes
  The Contractor shall take all precautions to prevent damage in all or any adjacent finishes by providing adequate protection to thesas areas/surfaces prior to the commencement of the Works.
  1.02 Protection of Existing Trees
  Existing trees designated on the drawlings for retention shall be protected at all times. Any soil work closer to existing trees that it all the carried out be hand only.
  1.03 Erosion
  1.04 The Contractor shall take all proper precautions to prevent the erosion of soil from any lands used or occupied by him. Any soil work closer to existing trees than

## SOIL WORKS

2.01 Materials

(a) Specified Soil Mix - Gardens:

The specified soil mix for mass planting beds and tree back filling shall be an imported soil equal to "Premium Garden Mix" as supplied by ANI, (Australian Native Landscapes)

(b) Specified Soil Mix - Turt

(c) Specified Soil Mix - Turt

(b) Specified Soil Mix - Turt

The specified soil mix for all furf areas shall be a 25mm layer of an imported soil mix of 80% wahsed river sand (reasonalby coarse) and 20% pulverised chicken manure.

(c) Site Topsoil:

Site Stopsoil is to be dean and free from unwanted matter such as stones over 25mm diameter, clay lumpsm grass, weeds and tree roots, sticks, rubbish and plastics and any materials toxic to plants. It shall also have a pH of between 5.5 and 7.

 2.02 Installation
 (a) Set Out of Individual Trees and Mass Planting Areas.
 All individual tree planting positions and areas designated for mass planting shall be set out with stakes or other forms of marking ready for approval.
 (b) Establishing Subgrade Levels: The following subgrade

mass planning bods: 300mm below finshed surface level
 but areas: 25mm below finished surface level
 hote that all subgrades shall consist of a relatively free draining natural material, consisting of site topsoil placed previously by the Civil Contractor. No builders waster material shall be acceptable.

Cuthvate all subgrades to a minimum depth of 150mm in all planting beds and all turf areas, subgrade into a minimum tall of 1:100 to outlet. ensuring a thorough break up of the

(e) Placement and Preparation of Specified Soil Mix Install surface and sub-surface frainage where required and as detailed on the drawings. provided, with minimum felt of 1:100 to outlet.

mass planning backs: install the specified soil mix to a compacted depth of 300mm
 burf areas: install the specified soil mix to a compacted depth of 25mm

## PLANTING

## 3.01 Materials

(a) Quality and Size of Plant Materials
All plant material shall be to the type and size specified. No substitutions of plant material shall be permitted without prior approval. No plant shall be accepted which is undersized, unhealthy, notbound, scared or has not been adequately hardened off.

Stakes shall be sound, urpainted, straight hardwood, free of knots and pointed at one end. They shall be 1800mm x 32mm x 32mm, or length as required to ensure stability. Ties shall be 50mm wide hessian webbing material.

(c) Fertilisers: Fertilisers shall be approved slow release fertilisers suitable for the proposed planting types.

(d) Musch: Majich shall be an approved hardwood chip (25mm), completely free of any soil, weeds or other debris,

Tulf shall be Kikuyu, free of any weeds, other grasses and in a healthy growing condition.

3.02 Installation:

All planting set out shall be in strict accordance with the drawings, or as directed (b) Planting:

All plant material shall be planted as soon after delivery as possible. Planting holes for trees shall be excavated as detailed and as specified. Plant containers shall be removed and outer roots gently teased from the soil mass immediately set plant in hole and backfill with specified soil mix, incorporating the approved quantity of fertiliser for each plant type. Ensure that plants are set plumb vertically and rootballs set to the consolidated finshed grades detailed on the drawings. Compact the backfilled soil and saturate by hand watering

Stating and tying shall be in strict accordance with the drawings and shall occur immediately following platement and soil beddelling.

Mush shall be spread so that a compacted thickness of 75mm is achieved after settlement in all planteing beds and around earlic individual tree. Apply immediately following planting and water in. There shall be no mixing of the soil and mulch materials.

(e) Turfing: Moisten soil prior to turf being laid. Turf shall be neatly but printed and true to grade to finish flush with adjacent surfaces. Incorporate a lawn fertiliser and thoroughly water in. Keep turf most until roots have taken and sods cannot be lifted. Keep all traffic off turf until this has occurred.
Allow for topfressing of all turf areas. All turf shall be rolled immediately following installation.

(f) Timber/ Brick Edging:
The Contractor shall install timber/ brick edging as detailed on the drawings, to all mass planting bed edges where required. The resultant edge shall be true to line and level and finish flush with adjacent surfaces.

## HARDSCAPE WORKS

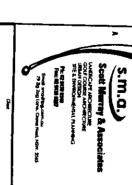
The Contractor shall undertake the installiation of these works as detailed on the drawings. All workmanship shall be of the highest standard.

CONSOLIDATION AND MAINTENANCE
5.01 General
The consolidation and maintenance period shall be 52 weeks. Consolidation and maintenance shall mean the care and maintenance of Contract works by accepted horticultural practices, ensuring that all plants are in optimum growing condition and appearance at all times, as well as rectifying any defects that become apparent in the works under normal use. This shall include,but not be limited to the following items where

- Litter and Other Debris
- 0 Wised Control

Soil Subsidence

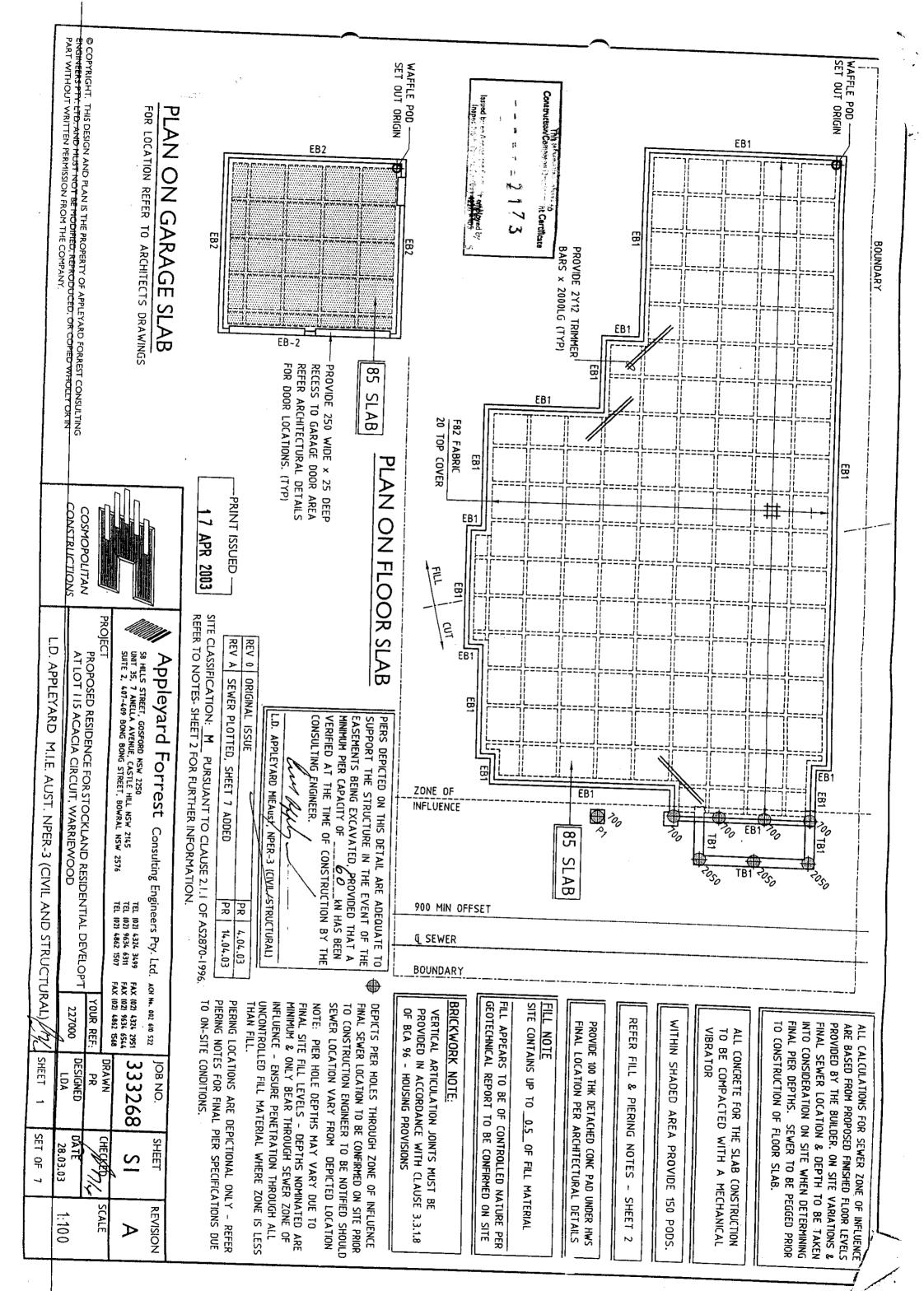
- Plant maintenance and Replacements Insect and Disease Control
- Fertilisation Programme
- Mowing and edging

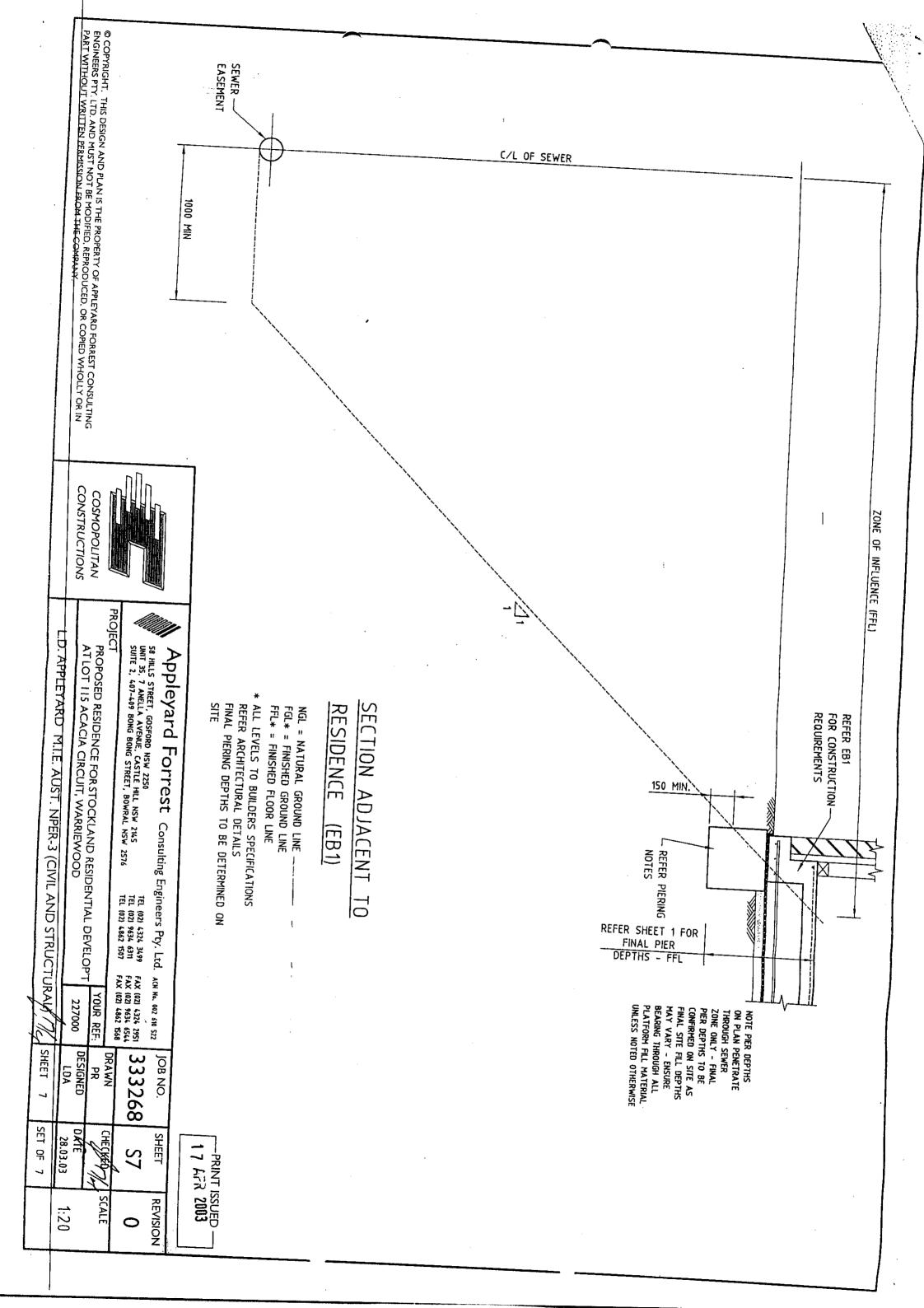


FERNBROOK SANCTUARY COSMOPOLITAN HOMES SPECIFICATION

591-LP-08  $\triangleright$ 

./plotfiles/specification.dgn May. 26, 2003 19:55:35





- **A.2** ALL SET OUT DINENSIONS ARE TO BE OBTAINED FROM THE ARCHITECT'S DRAWING UNLESS SPECIFIC DIMENSIONS ARE GIVEN ON THE ENGINEERING DRAWINGS.
- ۵ THIS DRAWING SHOULD NOT BE SCALED.
- A. ALL MATERIALS AND WORKMANSHIP ARE TO BE OF THE HIGHEST STANDARD AND IN ACCORDANCE WITH ANY RELEVANT S.A.A. CODE RELATING TO THEIR APPLICATION.
  CERTIFICATES TO THIS EFFECT FROM A N.A.T.A APPROVED TESTING LABORATORY SHALL BE FURNISHED ON REQUEST.
- **A.** . DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART OF THE STRUCTURE SHALL BE OVER STRESSED.
- FOLLOWING SUPERIMPOSED LIVE LOADINGS: STRUCTURAL ELEMENTS HAVE BEEN DESIGNED FOR THE

## 1.5kPa

## œ **EXCAVATOR**

- 87 쯘 ALL EXCAVATION AND BACKFILL SHALL BE CARRIED OUT NEATLY TO THE LINES, LEVELS AND GRADES SPECIFIED.
- ANY BACKFILL MATERIAL REQUIRED OR SPECIFED SHALL BE COMPACTED GENERALLY TO A DENSITY EQUIVALENT TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY (TEST METHOD IN ACCORDANCE WITH AST289-E11- STANDARD COMPACTIVE
- 8 FILL MATERIAL BENEATH EDGE BEAMS IS TO BE COMPACTED IN ACCORDANCE WITH CLAUSE 6.4.2 OF AS2870-1996 & AS SPECIFIED IN NOTE B2.

## $\Box$ **FOOTINGS**

- $\overline{C}$ FOOTWIGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARMS PRESSURE OF LOOK KPG ON LPG ON LPG ON THE PROPERTY OF CONSTRUCTION PROCEEDING.
- C IF THE SITE HAS BEEN THE SUBJECT OF A GEOTECHNICAL INVESTIGATION REQUIRING ADHERENCE TO PARTICULAR CONSTRUCTION PROCEDURES AND/OR TECHNIQUES, THE REQUIREMENTS OF THE APPROPRIATE GEOTECHNICAL ENGAMEER'S REPORT SHALL BE COMPLIED WITH IN FULL.
- C IF THE SITE CONDITIONS ENCOUNTERED APPEAR TO DIFFER SUBSTANTIALLY FROM THE CONDITIONS DEPICTED ON THIS PLAN OR REPORTED IN THE GEOTECHNICAL REPORT, THE STRUCTURAL ENGINEER AND/OR THE GEOTECHNICAL ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
- STRIP FOOTING AND EDGE BEAM DEPTHS ARE MINIMUM REQUIREMENTS ONLY AND SHOULD BE INCREASED AS REQUIRED TO PENETRATE TOP SOR COVER AND PROVIDE A MINIMUM PENETRATION OF 100mm INTO FIRM AND UMIFORM NATURAL MATERIAL. STRIP FOOTINGS AND STIFFENED RAFTS

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## S BUILDING AREA IS TO BE PREPARED IN ACCORDANCE WITH NOTES B1 - B3, PREVIOUSLY NOTED. WAFFLE RAFTS

A LAYER OF 25mm - 50mm QUARRY SAND OR QUARRY RUBBLE IS TO BE PLACED OVER THE ENTIRE BUILDING AREA AND UP TO 1.0m OUTSIDE THE BUILDING AREA.

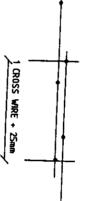
## STEEL FIXER

2

ALL REINFORCING BAR AND FABRIC SHALL BE DESIGNATED AS SHOWN IN THE FOLLOWING TABLE AND SHALL COMPLY WITH THE APPROPRIATE CODES AS NOTED BELOW:

NOTE: TH	F	~	S	7	<b>SYMBOL</b>	
NOTE: THE NUMBER FOLLOWING THE SYMBOL IS THE BAR DIAMETER IN MILLIMETRES.	FABRIC TO AS1304-1991 (450MPa)	TEMPCORE DEFORMED BARS TO AST302-1991 (410MPg)	STRUCTURAL GRADE DEFORMED BARS TOAS 1302-1991 (230MP)	STRUCTURAL GRADE ROUND BARS TO AS1302-1991 [230HPg]	34人1	

D.2 HINHUM LAP TO FABRIC TO BE AS SHOWN IN THE DIAGRAM PE 0M-



- 5 TRENCH MESH SHALL BE SPLICED WHERE NECESSARY BY A LAP OF 500mm. ALL CROSS WIRES TO TRENCH MESH SHALL BE CUT FLUSH WITH OUTER MAIN WIRES.
- 4.0 SPLKES IN REINFORCEMENT SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF TABLE 13.1.2.2.A OF AS3600-1994, OR IN ACCORDANCE WITH THE FOLLOWING TABLE:-

LENGTH	BAR SIZE
004	712
600	91,7
800	Y20
1200	<b>12</b> 4
1200	Y28
1200	Y32

- 5.0 REWFORCEMENT SHALL BE SUPPORTED AT 1000mm HAXIMUM CENTRES TO HANTAIN THE NOMINATED POSITION AND COVER-UNLESS REDUCED SPACING IS SPECIFIED.
- D.6 WELDING OF REINFORCEMENT OTHER THAN TACK WELDING FOR PURPOSE OF MAINTAINING BARS IN CORRECT POSITION IS NOT PERMITTED UNLESS SPECIFICALLY NOMINATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- SITE CLASSIFICATION PURSUANT TO GEOTECHNICAL D.7 RENFORCING BARS SHALL HAVE A LAP LENGTH AT SPLICES NOT LESS THAN 500mm. AT 'T' AND 'L' INTERSECTIONS, THE BARS SHALL BE CONTINUED ACROSS THE FULL WIDTH OF THE INTERSECTIONS, ONE OUTER BAR SHALL BE BENT AND CONTINUED 500mm, OR A BENT LAP BAB SOOMM LANG OUTER BAR SHALL BE BENT AND CONTINUED 500mm, OR A BENT LAP BAB SOOMM LANG OUTER BAR SOOMM LAN each leg shall be provided. OR A BENT LAP BAR 500mm LONG ON

## ĹΠ CONCRETE

- ü ALL WORKHANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- Ę CONCRETE QUALITY

	ALL	_	LIKSHGTB	7
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	20		žă,	¥.
	GP/GB		JAKL 11694ED	
	GP/GB 20MPa		A53600	
	Ę		SANLYCHOY	
	250 Ka	PER 14	MAC CENENI	

DESIGN COVER TO THE RENFORCEMENT SHALL BE 40mm TO UNPROTECTED GROUND, 40MM TO EXTERNAL EXPOSURE; 30mm TO THE MEMBRANE IN CONTACT WITH THE GROUND AND 20mm TO THE INTERNAL SURFACE. THE SLAB FABRIC SHALL BE PLACED TOWARDS THE TOP OF THE SLAB WITHIN THE ZONE DEFINED BY THESE LIMITS.

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## 評 RESIDENTIAL STRUCTURAL STEELWORK

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ALL STRUCTURAL STEELWORK SHALL COMPLY WITH AS 1111, AS 1112, AS 1163, AS 1554, AS 4100, AND THE A.C.S.E. STRUCTURAL STEEL FABRICATION & ERECTION SPECIFICATIONS WHERE DEEMED APPROPRIATE BY THE CONTRACT DOCUMENTS

- Ξ, ABBREVIATIONS USED ARE AS FOLLOWS :

- UB UNIVERSAL BEAM
  UC UNIVERSAL COLUMN
  PFC PARALLEL FLANGE CHANNEL
  EA ROLLED STEEL EQUAL ANGLE
  UA ROLLED STEEL UNEQUAL ANGLE
  RHS RECTANGULAR HOLLOW SECTION
  SHS SQUARE HOLLOW SECTION
  SHS SQUARE HOLLOW SECTION
- F.W. FILLET WELD BUTT WELD
- H.3 THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE BUILDER'S RESPONSIBILITY. ADEQUATE TEMPORARY BEACHING SHALL BE PROVIDED WHERE NECESSARY AND AS DIRECTED BY THE SUPERVISING ENGINEER.
- ALL SHOP CONNECTIONS SHALL BE FULLY WELDED UNLESS NOTED OTHERWISE

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- H.5 PROVIDE GAM HENDHUM FILLET WELDS, M20 BLACK BOLTS & OTHERWISE. 10mm CONNECTION PLATES UNLESS SPECIFICALLY NOTED
- ALL BOLTS SHALL BE IN 2mm CLEARANCE HOLES UNLESS NOTED OTHERWISE,
- н.7 SURFACE TREATHENT AND COATINGS SHALL BE AS SPECIFIED WITHIN THE TABLE BELOW:

MEMBER MARK SURFACE COATING PREPARATION  INTERNAL ALL ABRASIVE BLAST R.O.Z.P. CLASS 1 [1 COAT]		
SURFACE PREPARATION ABRASIVE BLAST CLASS 1	INTERNAL	MEMBER
RATION VE BLAST	È	MARK
COATING R.O.Z.P. II COAT)	ABRASIVE BLAST CLASS 1	SURFACE PREPARATION
	R.O.Z.P. (1 COAT)	COATING

H.8 COMERTE ENCASED STEELWORK SHALL BE WRAPPED WITH 10 S.W.G WIRE AT 100mm PITCH AND SHALL HAVE A MINIMUM CONCRETE COVER OF 150mm UNLESS NOTED OTHERWISE.

	₩.
THE BUILDER MUST CLARIFY HIS CONTRACTUAL OBLIGATIONS IN THIS REGARD.	COATING OF EXTERNAL LINTELS SHALL BE IN ACCORDANCE EITHER WITH BCA 96 CLAUSES 3.3.3.4 AND 3.4.4 OR AS3700 CLAUSE 3.4.3.

M-CL ASS

## PIERING WORKS NOTES

(BRICK VENEER CONSTRUCTION)

- P1 FINAL DEPTH & STRUCTURAL ENGINEER. & EXTENT OF PIERING WORKS TO BE DETERMINED ON SITE SUBJECT TO OF THE TEST HOLE/INITIAL EXCAVATION AND VERIFICATION BY THE
- P2 WHERE REQUIRED, ALL PICRING IS TO CONFORM TO THE FOLLOWING TABLE:

	-,					
SHWTE/BOCK	QAY	CAY FILL	CHYS		BEARING	
34 57 <sub>1</sub>		3	18 10°2		DESIGN BEARING CAPACITY	
100 man HAX C/C.  300 man HAX C/C.  100 man HAX C/C.		706ma x 306ma BUCKET PERS ⊕ 1006ma HAX, C/C, 440mm/S BORED PERS ⊕ 1006ma HAX, C/C, 3006ma/S BORED PERS ⊕			SINGLE STOREY	
400mm/ BORED PERS @ 1800mm HAX C/C	400mm BORED PERS & ISOOmm HAX, C/C,	CONTINUOUS EDGE BEAM DEEPENING OR BROWN × 300mm BUCKET PERS • 1200mm MAX. C/C	CONTINUOUS EDGE BEAH DEEPSWAG.	STOREY	DOMEST IT	

- P3 PIER REINFORCEMENT TO BE DIRECTED BY ENGINEER ON SITE.
- P4 WHERE SHALE OR ROCK STRATA IS ENCOUNTERED LESS THAN 600mm BELOW FINISHED GROUND LEVEL, PROVIDE PIERS TO SHALE OR ROCK STRATA IN ACCORDANCE WITH PIERING WORKS NOTES ABOVE.
- S WHERE PIERS ARE REQUIRED ADJACENT TO SERVICE TRENCHES, THE STRATA ENCOUNTERED ADJACENT TO THESE SERVICE TRENCHES MUST BE ADOPTED THROUGHOUT THE REMAINDER OF THE DWELLING.
- P6 FOR WAFFLE RAFTS:

INTERNAL LOADBEARING RIBS TO BE PIERED AT HAXIMUM 2400mm CTS.

## NOTE:

THESE DETAILS CONFORM WITH THE RECOMMENDED DESIGN PROCEDURE CONTAINED IN AS2870.—1996 AUSTRALIAN STANDARD FOR RESIDENTIAL SLABS & FOOTINGS FOR THE SPECIFIC SITE IDENTIFIED ON THIS DRAWING.

## PLUMBING PLA EMENT:

CURING: PIPES SHALL BE PLACED MINIMUM 450mm TOP OF SLAB TO TOP OF PIPE, WITH EXCEPTION OF EB3. ALTERNATIVELY, PENETRATIONS OF EDGE OR STIFFENING BEAMS SHALL BE PERMITTED THROUGH THE MIDDLE THIRD.

WAFFLE PODS MAY BE CUT AROUND EXPOSED PLUMBING AND ANY OTHER RESULTING GAPS MAY BE TAPED AND SEALED.

THE CONCRETE SLAB SHALL BE CURED USING AN APPROVED COMMERCIAL CURING COMPOUND AND IN ACCORDANCE WITH CLAUSE 19.1.5 OF A53600-1994. CURING OF THE CONCRETE SHALL START IMMEDIATELY AFTER FINISHING. +

0 7 APR 2003 -PRINT ISSUED -

				Т			T-			
	- CIVIL AIND STRUCTURAL	PUT A LETARU MILE AUST, NPER-3 (CIVIL AND STREET)	D ADDI EVADO	A LOT 115 ACACIA CIRCUIT, WARRIEWOOD	DENTIAL DEVELORY	PROJECT	UITE 1, 407-409 BONG BONG STREET, BOWRAL NSW 2576 TEL (02) 4862 1507	UNIT 35, 7 ANELLA AVENUE CASTI E HILL LICE. TEL (02) 4324 3499 FAX	SB HILLS STREET COLL CONSulting Engineers Pty. Ltd. ACN No. 802 610 522	Appleyand Formant
k	AL VI		000/27	777000	YOUR REF:	2000	FAX (02) 9634 6544 FAX (02) 4867 1868	1021 1221 1201	No. 002 610 522	
	SHEET 2		LDA	DESIGNED		DRAWN	207000	222	JOB NO.	
	SET OF 6		31.03.03	DATE		CHECKED	22	3	SHEET	
		;	NTS		ST ALE		C	>	REVISION	

.

Reference No.: G21127/1-HRJK;JA

Site Classification:

SVM

Dated: 20 SEPTEMBER 2002

REPORT

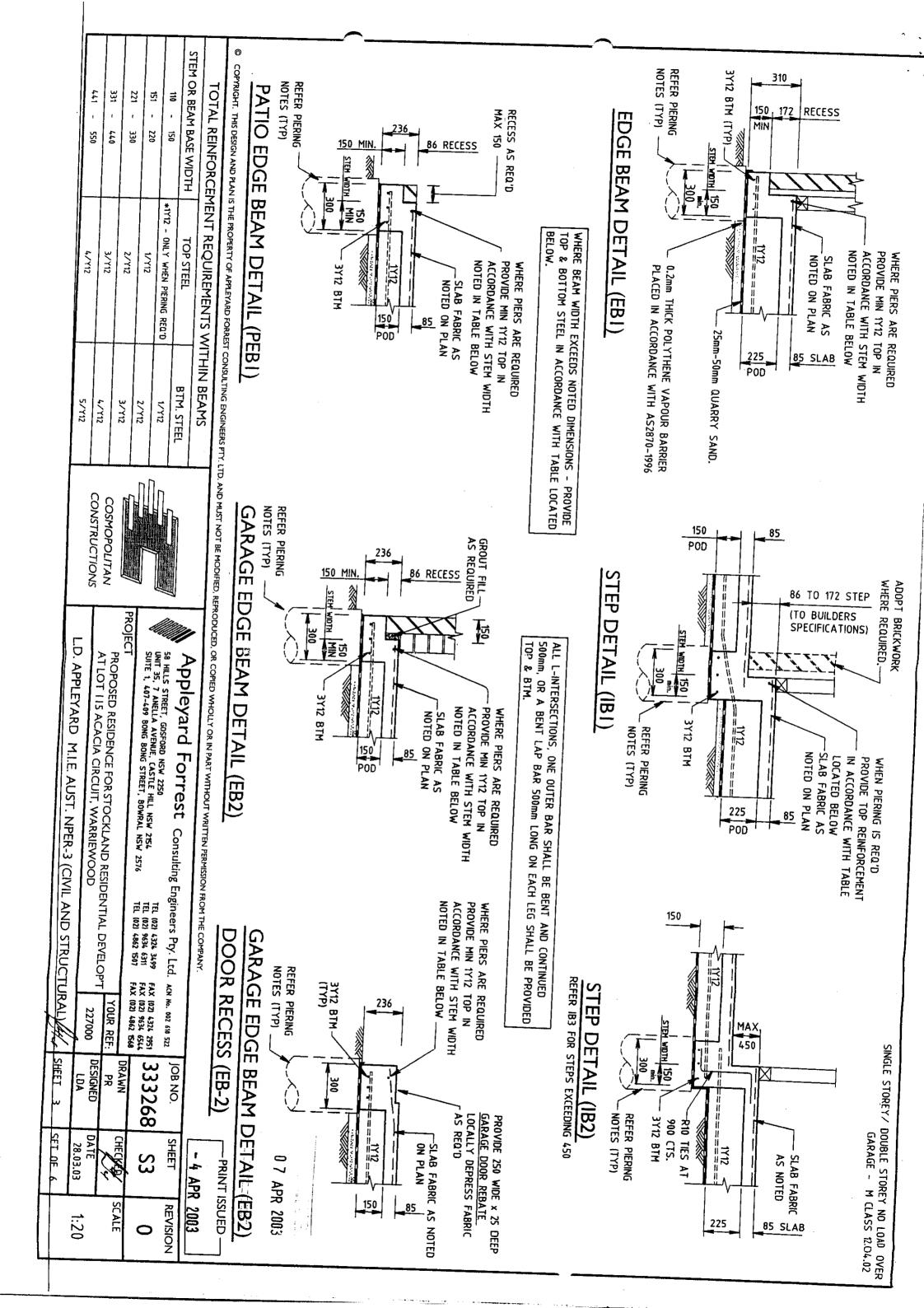
Report by: NETWORK GEOTECHNICS PTY LTD

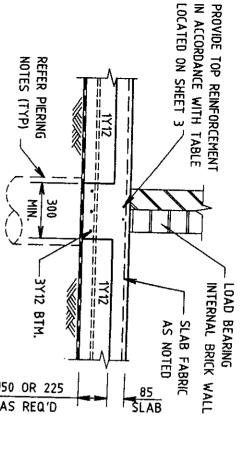
THE FOOTING SYSTEM SPECIFIED ON THESE DRAWINGS WILL HEET THE PERFORMANCE REQUIREMENTS SET OUT IN CLAUSE 1.3 OF AS2870-1996 RESDENTIAL SLABS AND FOOTINGS CODE).

THE FOOTINGS SYSTEM IS NITENDED TO ACHIEVE ACCEPTABLE PROBABILITIES OF SERVICEABILITY AND SAFETY OF THE BUILDING DURING TIS DESIGN LIFE.

APPENDIX B OF AS2870-8996 PROVIDES INFORMATION AND GUIDANCE ON THE HAINTENANCE OF FOUNDATION SITE CONDITIONS. SUBJECT TO ADDITION OF THESE RECOMPENDATIONS THE BUILDING HAY EXPERIME HINOR DAMAGE BUT OF A SEVERITY NOT EXCEEDING THE LEVELS OFFINED IN APPENDIX C OF AS2870-1996.

CONSTRUCTIONS COSMOPOLITAN





\_江江\_

150 OR 225

큥

COMMERCIAL WAFFLE POD SPACER

REFER PIERING NOTES (TYP)

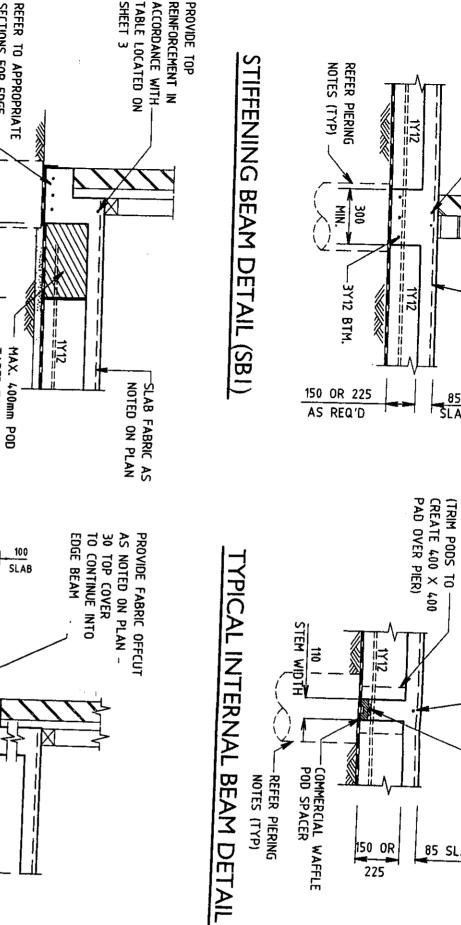
TOOLED JOINT DETAIL (TJ)

LOCALLY DEPRESS SLAB FABRIC UNDER GROOVE

REINFORCEMENT IN

ACCORDANCE WITH

PROVIDE TOP



## POD TAPING DETAIL (EBI)

BEAM REQUIREMENTS SECTIONS FOR EDGE

MAX. 400

P00.

TAPED TO ADJACENT

WHERE PIERS SHOWN

REFER PIERING NOTES

ON DETAILS

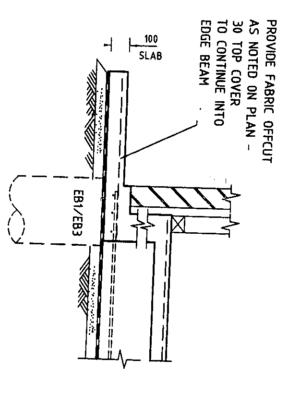
POD TAPING DETAIL FOR EB2 & PEB1 SIMILAR

EXCEEDS 300 - REFER TABLE - SHEET 3 FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. PODS LESS THAN 400mm WIDE CAN BE TAPED - IF EDGE BEAM

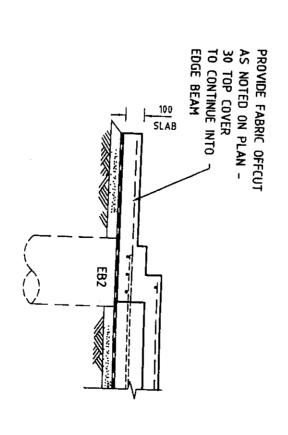
## NOTE POD TAPING DETAIL IS ONLY PERMISSIBLE FOR ENTIRE LENGTH OF EDGE BEAM OR STEP BEAM ALL INTERNAL RIBS MUST BE CONTINUOUS £

© COPYRIGHT, THIS DESIGN AND PLAN IS THE PROPERTY OF APPLEYARD FORREST CONSULTING ENGINEERS PTY, LTD. AND MUST NOT BE MODIFIED, REPRODUCED, OR COPIED WHOLLY OR IN PART WITHOUT WRITTEN PERMISSION FROM THE COMPANY.

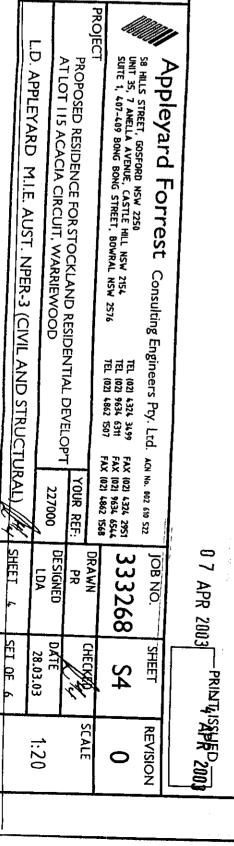
CONSTRUCTIONS COSMOPOLITAN



## HOT WATER PAD DETAIL-EBI/EB3



## HOT WATER PAD DETAIL-EB2



SINGLE STOREY/ DOUBLE STOREY NO LOAD OVER GARAGE - M CLASS 12.01.02

WHEN PIERING IS REQ'D INTERNALLY
PROVIDE 1Y12 TOP

2m MIN LENGTH

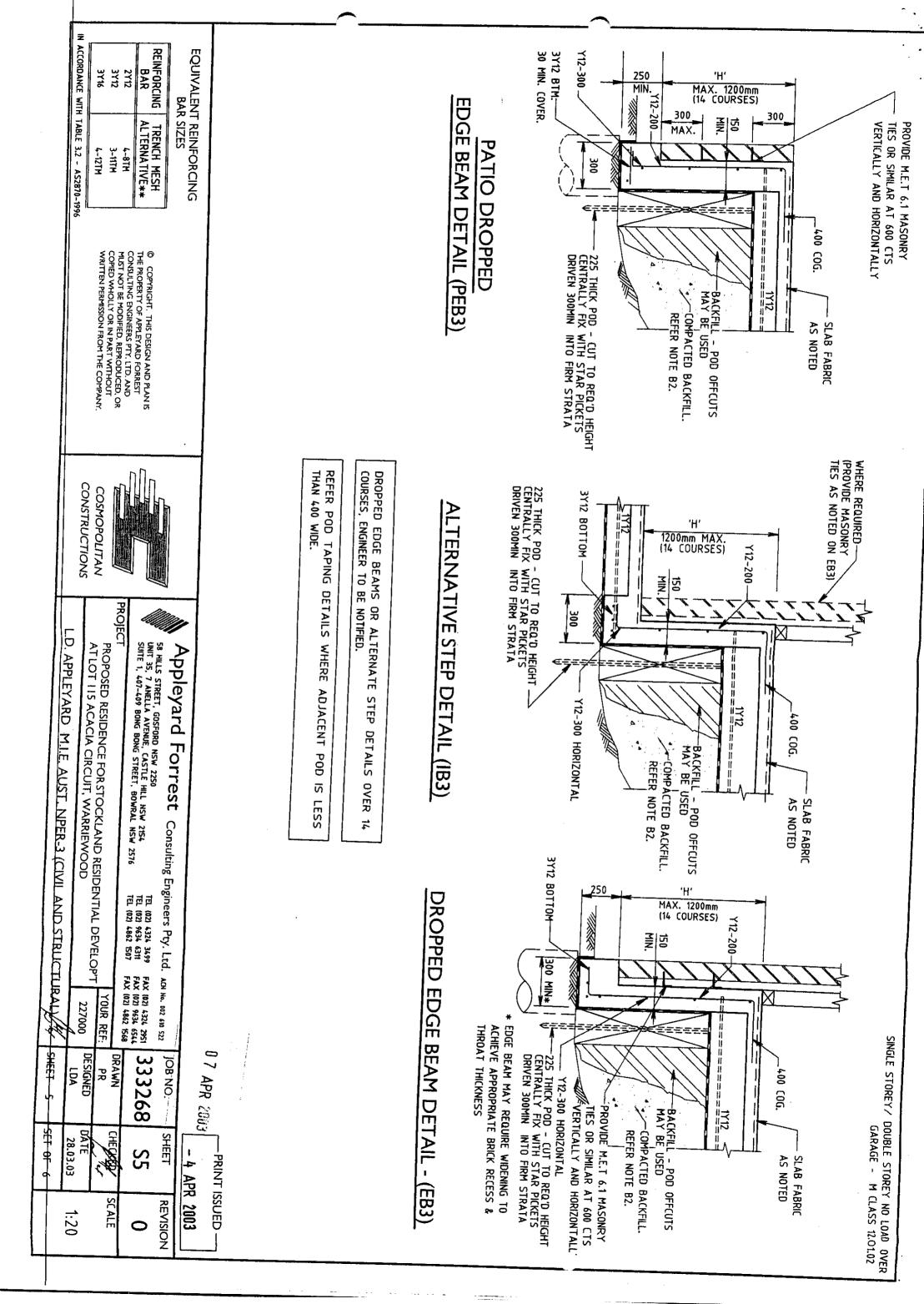
BEAMS

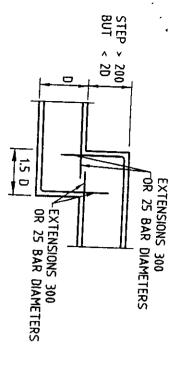
85 SLAB

6mm WIDE GROOVE

10mm DEEP x

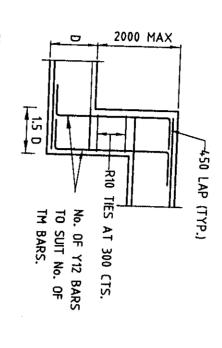
TO ALL INTERNAL 1Y12 BAR TYPICAL





## STEP>200 - BUT <2D

D = DEPTH OF FOOTING



## STEP>200 - BUT <2000

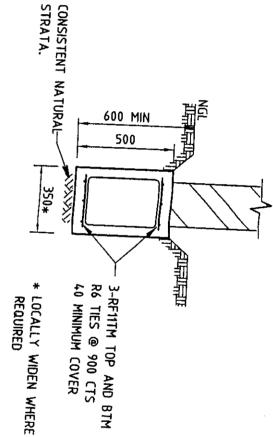
D = DEPTH OF FOOTING

## TYPICAL STRIP FOOTING STEP DETAILS

2Y12 BARS COGGED 500 WHERE 'D' EXCEEDS
EDGE BEAM WIDTH
REMOVE POD OVER
(AREA INBETWEEN TWO
INTERNAL BEAMS) -REFER PLAN FOR EDGE BEAM DETAILS SF1

# STRIP FOOTING CONNECTION DETAIL

CONS SOC 0



TAMPED BACKFILL OR CONCRETE BACKFILL

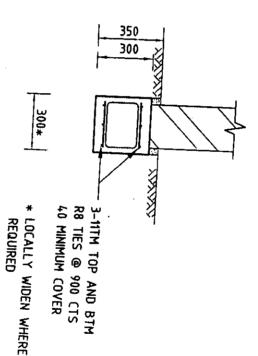
500

XXXXXX

XXXXX

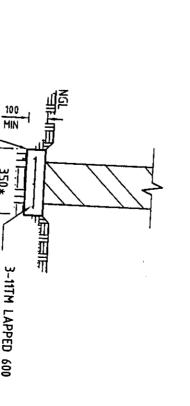
300

## STRIP FOOTING DETAIL (SFI)



## PATIO TIE BEAM DETAIL (TBI)

M (LASS



SOUND ROCK STRATA-DETAIL X FOOTING DETAILS (SF1) EXCEEDS 300mm PROVIDE 3-11TM LAPPED 600 WITH FOOTING TOP TM TM TOP & BTM AS PER WHERE FOOTING DEPTH

FOOTING EXCAVATIONS
0 7 APR 2003

ROCK STRATA IS ENCOUNTERED ADOPT DETAIL ABOVE WHERE

Z

-PRHY ABREDOBS

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		STRUCTIONS	MOPOLITAN				
CIVIL AND STRUCTURAL		ب	AT LOT LIS ACACIA COR STOCKLAND RESIDENTIAL DEVELORITY YOU	(82)	UITE 1, 407-409 BONG BONG STREET, BOWRAL NSW 2154 TEL (02) 4634 6311 FAX (02) FAX (02) FAX (02) FAX (02) FAX (02) FAX (03) FAX (0	outring Et	Appleyard Forrest
SHEET 6	1 8	27000 DESIGNED	JR REF: PR	1569 DD A 1.//.	9634 654 3333268	92 698 S22 JOB NO.	7
SET OF 6	28.03.03	mark	CHECKEN	-	68 S6	SHEET	
	1:20		SCALE		0	REVISIO	FUU7 VIII

SINGLE STOREY/ DOUBLE STOREY NO LOAD OVER GARAGE - M CLASS 12.01.02

\*004

\* LOCALLY WIDEN WHERE REQUIRED

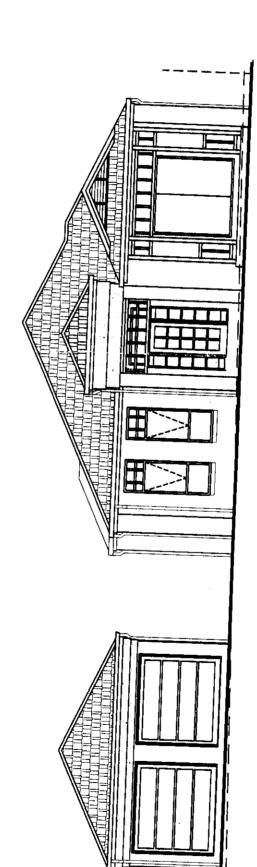
## PAD DETAIL (PI)



COSMOPOLITAN

LIVING DRAWINGS FOR CONSTRUCTION APPROVED

# COSMOPOLITAN



## COSTRUCTION ISSUE

Issued by an Azer-aine Gertiner employed by Inspec NSW. Plytop Ph (4) and be esterned by Construction/Complying Development Certificate

CONSTRUCTION ISSUE
PER COUNCIL LETTER 10.02.03
INSULATION NOTES ADDED
DA ISSUE



## COSMOPOLITAN LIVING

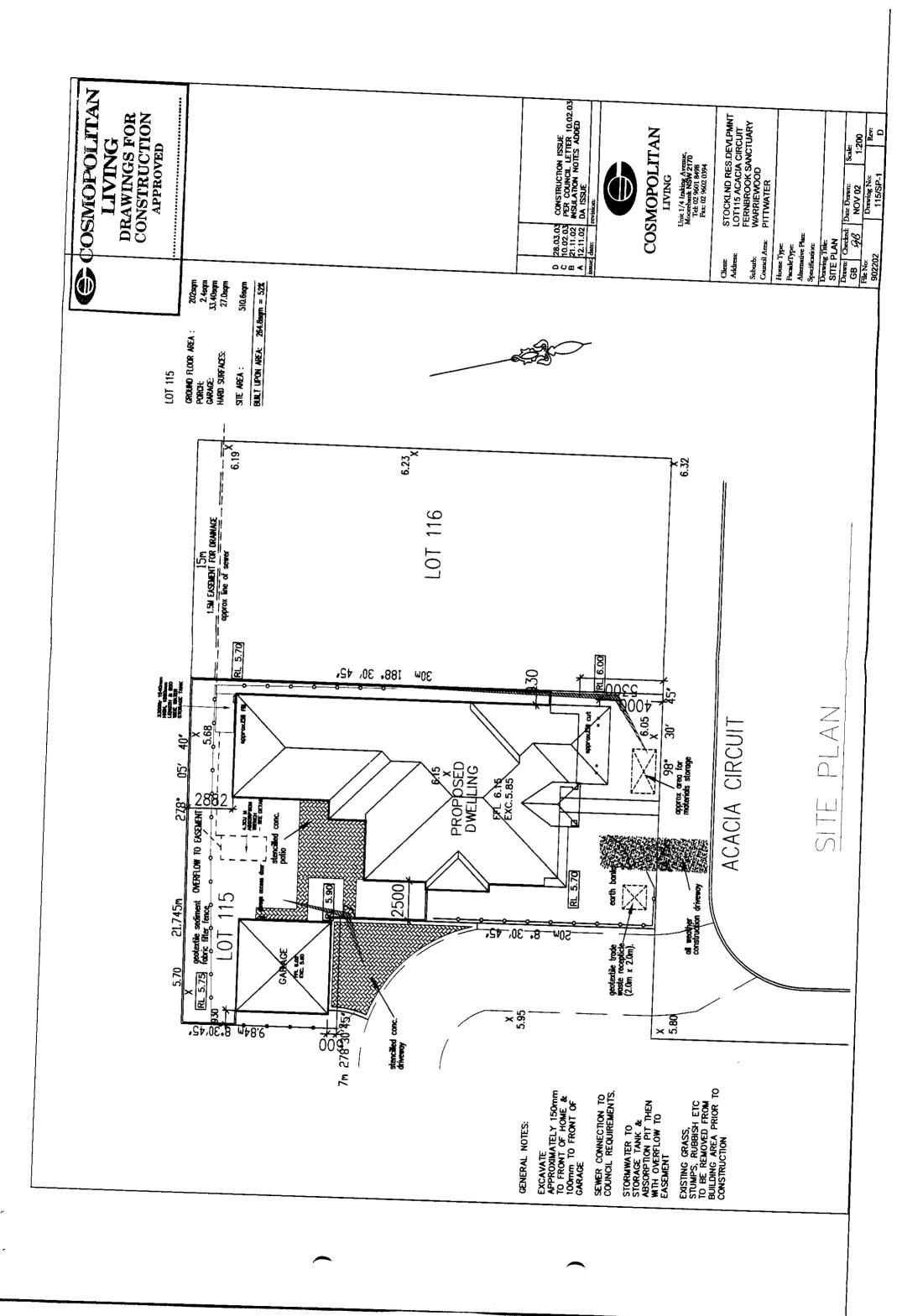
Unit 1/4 Inthing Avenue, Moorebank NSW 2170 Tel: 02 9601 8498 Fax: 02 9602 0394

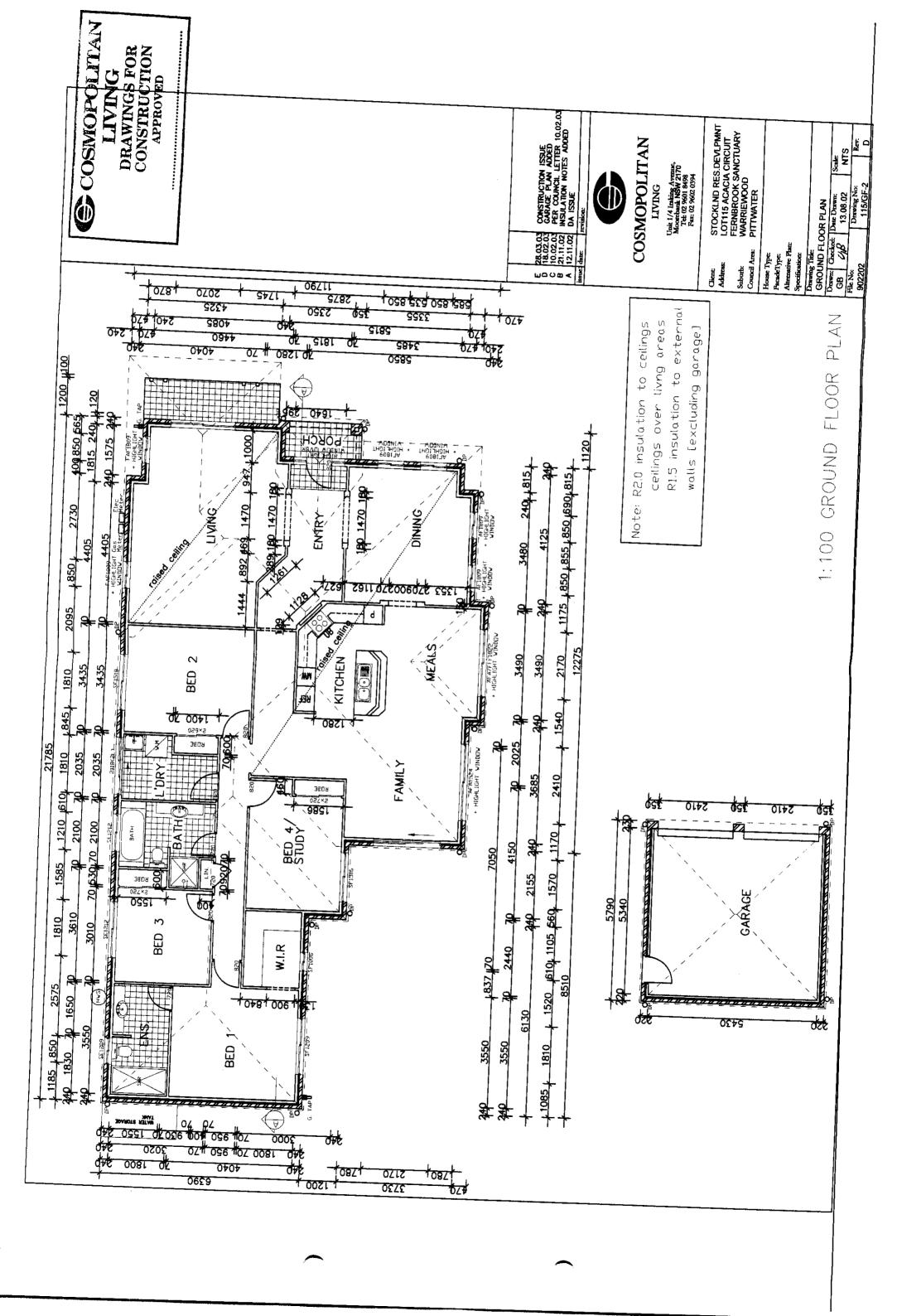
STOCKLIND RES.DEVLPMIT
LOT115 ACACIA CIRCUIT
FERNBROOK SANCTUARY
WARRIEWOOD
PITTWATER

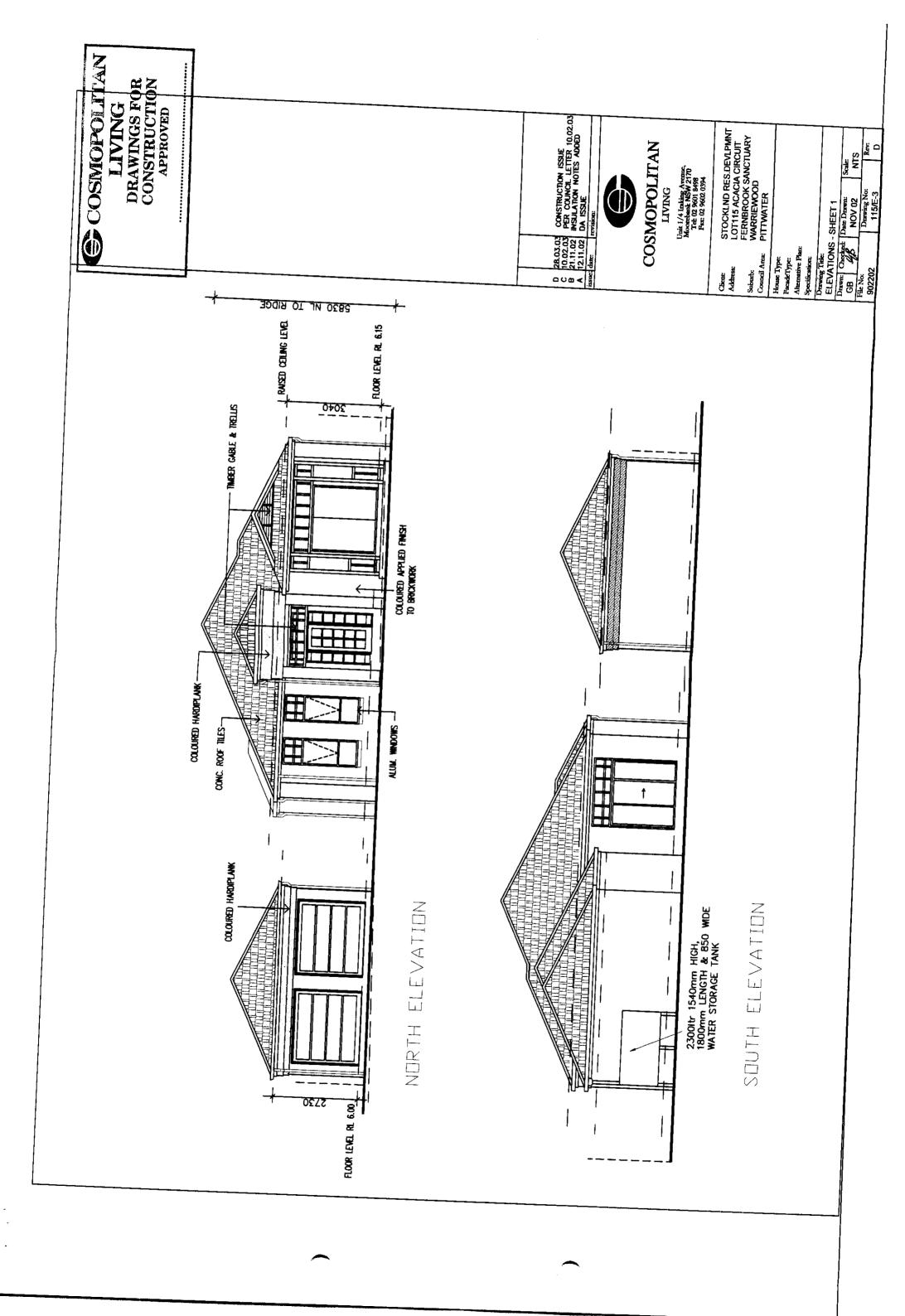
House Type:
PacadeType:
Alternative Plan:
Specification:
Dawing Title:
COVER SHEET

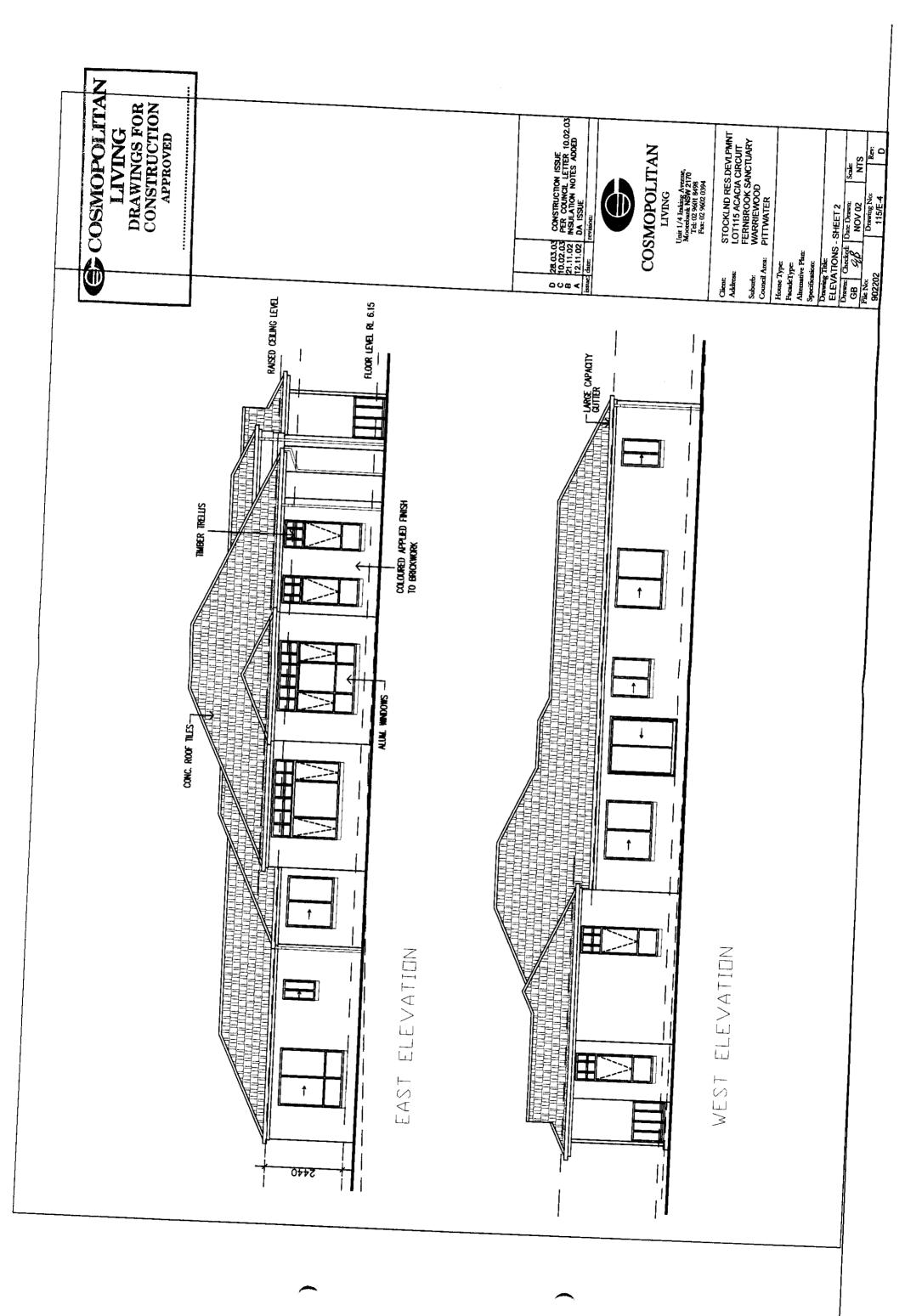
Drawn:
GB AR NOV 02
File. No:
BORY 0202

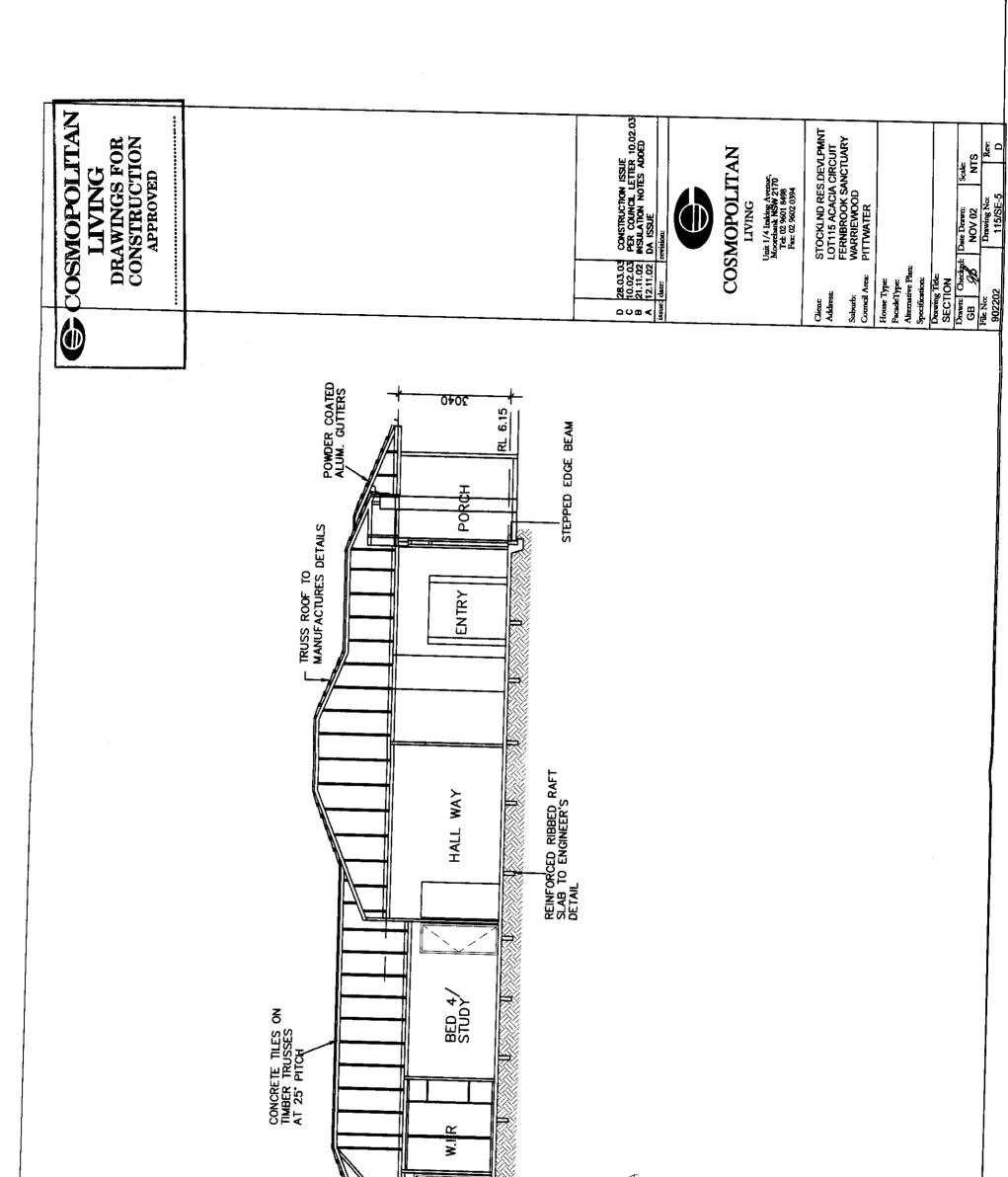
1156C-04











SECTION A'A

BED

2512

BRICK VENEER CONSTRUCTION



This information relates to Construction/Complying Development Certificate

2173

Issued by en Activation Certifier employed by (napht Novy Protes Rig(82) 4226 6305

## WITH COMPLIMENTS

TO: COSMOPOLITAN

ATTENTION: WALID NAKHOUL

INSULATION REQUIRED TO ACHIEVE 3.5 STARS (HOUSE ACHIEVED 3.5 STARS)

RE: LOT 115 ACACIA CIRCUIT, WARRIEWOOD.

CEILING INSULATION (TO ROOF SPACE): R2.5

EXTERNAL WALLS: R1.5

WEATHER STRIPPING TO EXTERNAL WINDOWS & DOORS

THANKYOU

Stephen Hardy
HMB N.S.W ACCREDITTED

MOBILE: 0402 780 282 PHONE/FAX: 4285 0335



## NatHERS V2.31

## Nationwide House Energy Rating Scheme

JobName:

Job No:

02/09/1432

Run No:

Climate Zone:

17

Client:

Stockland

Site Address: Lot 115 Acacia Cct Warriewood 2102

**NSW** 

Assessor:

Date:

24/9/2002

Time:

22:28

Page

1

## **Energy Rating Report**

Description:

## RATED ENERGY REQUIREMENTS\*

Heating	Cooling (Sensible)	Cooling (Latent)	Total Energy	
76.3	80.5	10.5	167.3	MJ/m².annum
21.2	22.4	2.9	46.5	kWh/m².annum

<sup>\*</sup> These energy requirements have been calculated using a standard set of occupant behaviours and so do not necessarily represent the usage patterns or lifestyle of the intended occupants. They should be used solely for the purposes of rating the building. They should not be used to infer actual energy consumption or running costs. The settings used for this simulation are shown in the Building Data Report.

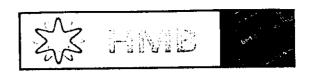


## SUMMARY

Total Areas		Ventilation and infiltration			
	1060	Open fireplace w/o damper	N		
Conditioned floor area (m²)	186.0 196.4	Weather stripping	Y		
Total floor area (m²)  Total wall area (m²)	197.3	Vented downlights	N		
otal window area (m²)	61.8	Exhaust fans w/o damper	N		
Construction and Insu	Jation **	Entrance open to living area	Y		
External wall type	Brick Veneer	Vented skylights	N		
Internal wall type	Plasterboard on Studs	Fixed wall or ceiling vents	N		
Floor type	Concrete Slab	Roofspace ventilation	Standard		
Window type	Single glazed, clear	Sub-floor space ventilation	None		
Roof space present	Y	Ceiling fans			
Roof type	Roofing Tiles	Living	N		
Roof insulation (m <sup>2</sup> .K/W)	None	Bedrooms	N		
Ceiling insulation (m <sup>2</sup> .K/W)	R 2.5	Other conditioned	N		
Wall insulation (m <sup>2</sup> .K/W)	R 1.5	Other			
Floor insulation (m <sup>2</sup> .K/W)	None	Terrain category	Suburban		
External wall colour	Medium	Hot Water System	m		
Roof colour	Medium	1200 (V 2000 System			
Eaves width (mm)	450				
Eaves offset (mm)	0				

<sup>\*\*</sup> Where there are two or more construction types for a given element (e.g. external wall), only the one with the greatest area is listed here. Refer to Building Data Report for more details.

## **HMB Assessor Certificate V3.0**

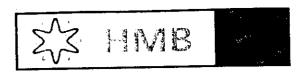


## **Single Dwellings Only**

Current from April 30<sup>th</sup> 2002, Previous versions not valid

Assessor Details	<u></u>					
Assessor Name: STEPHEN HARDY		Assessor No: HMB / 134				
Phone: 4285 0334		Fax	: 4285 0335	<u></u>	<u> </u>	
Date of Assessment: 24 SEPTEMB	ER, 2002		<u> </u>			
Client Details						
Client Name: COSMOPOLITAN		Pho	ne: 9601 849	8		
Dwelling Owner Name (if different			<u></u>			
Postal Address: UNIT 1/4 IRAKIN						
Address of Dwelling/s: LOT 115 AC		/AR	RIEWOOD.			
Council Submitted to: PITTWATER	<u> </u>	Sof	ftware Climate	e Zone: 17		
Client Document Reference: 115/1						
Assessment Details						
HOT WATER ASSESSMENT (if	applicable)					
Do any restrictions on the perform	ance of the hot wa	ter	system exist?	Circle all that a	pply	
Orientation Pitch	Shading		itage	Sizing	Tank Location	
Hot Water System Type:		SE	)A Greenhous	e Rating:		
HOUSE ENERGY RATING ASSES	SMENT					
mj/sqm/year: 167.3		Star rating: 3.5 STARS				
Software package: NatHERS		Version No: 2.31				
Assessment No (HMB):		Assessor's Reference (if different):				
HMB/134/PIT/143	2					
Alternative Pathways to Complian	oce (if Applicable)					
Concession Type:	ice (ii Nphicasie)	Amount Deducted:				
Documentation Attached (tick if a	nnlicable):	Doc. Reference:				
Area Adjustment	Floor Area:		<u> </u>	Amount Deducte	:d:	
Expert Panel Report Number:	111001111100			Report Attached	t (tičk): · F	
		Γ		- Nopol - Milaonos	7.1.V.	
Adjusted mj/sqm/year:  3.5 star threshold for climate		1				
zone		_	المستوارية المتاريخ المستواريخ			
Final Assessment			ACCREDIT	TED NSW HER	ASSESSOR I	
Findi Assessmeni		<b> </b> -	<del> </del>			
Complying			Assessment No. HMB/134/Prt/1/432			
			Name STEPHEN HARDY			
				••••	. 9xx	
			Signature	$\mathcal{M}$		
<b>A A A</b>	1	1 1			HMR	
**	<b>4</b>		••	STARS Date 2		
		-	Assesso	r Stamp to be pla	ced in box	
		1				

## **HMB Assessor Certificate V3.0**



## Single Dwellings Only

Current from April 30<sup>th</sup> 2002, Previous versions not valid

Assessor Details							
Assessor Name: STEPHEN HARDY			Assessor No: HMB / 134				
Phone: 4285 0334			Fax: 4285 0335				
Date of Assessment: 24 SEPTEMBE	R, 2002						
Client Details							
Client Name: COSMOPOLITAN		Pho	ne: 9601 8498	3			
Dwelling Owner Name (if different)	STOCKLAND						
Postal Address: UNIT 1/4 IRAKIN	IG AVENUE, MOO	REB	ANK, 2170				
Address of Dwelling/s: LOT 115 AC	ACIA CIRCUIT, V	VAR	RIEWOOD.				
Council Submitted to: PITTWATER		Sof	tware Climate	Zone: 17			
Client Document Reference: 115/1							
Assessment Details							
HOT WATER ASSESSMENT (if	pplicable)						
Do any restrictions on the perform	ance of the hot wa	ter:	system exist?	Circle all that	apply		
Orientation Pitch	Shading	Her	itage	Sizing	Tank Location		
Hot Water System Type:		SEC	A Greenhouse	e Rating:			
HOUSE ENERGY RATING ASSES	SMENT						
mj/sqm/year: 167.3		Star rating: 3.5 STARS					
Software package: NatHERS		Version No: 2.31					
Assessment No (HMB):		Assessor's Reference (if different):					
HMB/134/PIT/1432		ł					
Alternative Pathways to Complian	ce (if Applicable)	)					
Concession Type:		Amount Deducted:					
Documentation Attached (tick if applicable):			Doc. Reference:				
Area Adjustment	Floor Area:		· · · · · · · · · · · · · · · · · · ·	Amount Deduct			
Expert Panel Report Number:				Report Attach	ed (tick): '		
Adjusted mj/sqm/year:			-				
3.5 star threshold for climate		İ					
zone		<b>│</b> ┌─		TO HAME UPA	ACCECCOD		
Final Assessment			ACCREDITED NSW HER ASSESSOR				
			Assessment No	HMB/134/Pm	1/432 2002		
Complying			Name STEPHEN HARDY				
***	•			STARS Date .			



## **Application Lodgement Summary**

Sydney ŴAŤ≅R

Reference Number 720925

NC02/3-5161

**DOLFIN Number** 

Tradelink Liverpool, ?

**Applicant** 

Agent

COSMOPOLITAN CONSTRUCTIONS, 1/4 IRAKING AVE MOOREBANK 2170

Property/Asset

Mahogany Bvd, Warriewood 2102 (Stockland (constructors) Pty Limited) PNum:

100 mm CICL Watermain Reticulation - (2532322)

Proposed Location lot 115

**Product** 

**Building Plan Approval Application** 

Charge

Total **GST Product Cost** 

Date Requested: Mon March 31 2003

**Building Plan Approval Application Fee** 

\$0.00 \$20.00 \$20.00

Your application has been sent to Technical Services3 Chatswood, 432 Victoria Avenue, Chatswood for action.

Enquiries can be directed to (02) 9952 0341, fax (02) 9411 3730 or DX : DX2511W. The anticipated turnaround time is 8 days.



## **Application Lodgement Summary**

Sydney WAT≅R

Reference Number

720928

Date Requested: Mon March 31 2003

Agent

Tradelink Liverpool, ?

Applicant

COSMOPOLITAN CONSTRUCTIONS, 1/4 IRAKING AVE MOOREBANK 2170

Property/Asset

Mahogany Bvd, Warriewood 2102 (Stockland (constructors) Pty Limited) PNum:

100 mm CICL Watermain Reticulation - (2532322)

Proposed Location

lot 115

**Product** 

Plumbing and Drainage Inspection

	<b>Product Cost</b>	GST	Total
Charge  Plumbing and Drainage Inspection Application Fee  2 x Inspection Charge	\$30.00 \$90.00		\$30.00 \$99.00

Your application has been sent to PDI Services, Cooper Road, Birrong for action. Enquiries can be directed to Refer Contact List or DX: DX2554W. The anticipated turnaround time is 365 days.

## Conditions

- All fees are NON REFUNDABLE and NON TRANSFERABLE
- Any Plumbing or Drainage work MUST BE carried out by or under the immediate Supervision of Authorised Licensees who MUST lodge a separate Application to commence the work.
- This Application will lapse if the relevant work shown hereon has not commenced within 12 months of the date shown on the receipt.
- Where the Sewer is not available Sydney Water cannot accept any responsibility for the locations, lines and levels of the Supervised work for connection to the Sewer when it becomes available
- Owner's please note: You should obtain a 'Certificate of Compliance' from your Plumber or Drainer. This is your warranty for work done.

## EXTRACT FROM THE WATER BOARD (CORPORATION) ACT 1994 - Clause 21 (5) Water (Finance) Regulation

- 1. An owner or occupier of land shall not refuse to give, wilfully omit to disclose, or wilfully misstate to an Officer of Sydney Water:
  - a. any information required for, or likely to affect, a valuation or determination to be made for the purpose of this clause;
  - in the case of an occupier, the name of the owner of the land or the person who receives, or is Authorised to receive, the rent for the land. MAXIMUM PENALTY: \$5,000 IN THE CASE OF A CORPORATION, OR IN OTHER CASES, \$2,000.



## **Transaction Summary**

Sydney WAT&R

Date Requested Tue May 13 2003

A.B.N 49 776 225 038

Agent

Tradelink Liverpool, ?

**Applicant** 

COSMOPOLITAN CONSTRUCTIONS, 1/4 IRAKING AVE MOOREBANK 2170

This document will be a tax invoice when you make payment.

Transaction	Details	Charge	GST	Total
09	ogany Bvd, Warriewood 2102 720925 Concrete Encasement/Pier Supervision Fee 720925 Determining Requirements on Builder - Technical Services	\$105.00 \$105.00	\$10.50 \$10.50	\$115.50 \$115.50
Transaction	Total	\$210.00	\$21.00	\$231.00

District Administration of the second



## **Application Lodgement Summary**



Reference

756296

Date Requested: Tue May 13 2003

Number

**DOLFIN Number** 

NC02/3-5849

**WAMS Number:** 10455447

**Agent** 

Sydney Water, Chatswood, 432 Victoria Avenue, Chatswood

**Applicant** 

COSMOPOLITAN CONSTRUCTIONS, 1/4 IRAKING AVE MOOREBANK 2170

Property/Asset

Lot 126 Mahogany Bvd, Warriewood 2102 (Stockland (constructors) Pty Limited)

PNum: 5253257

225 mm VC Sewer Main Reticulation - (3814765)

Proposed Location

lot 115 Acacia Circuit, Warriewood

Product

Concrete Encasement/Pier Supervision

Charge

**Product Cost** 

GST

Total

harge

\$105.00

\$10.50

\$115.50

Concrete Encasement/Pier Supervision Fee

Your application has been sent to **North Coast Depot**, **Government Road**, **Beacon Hill** for action. Enquiries can be directed to **8977**, **5208**, fax **9975 7972** or DX : **DX2522W**. The anticipated turnaround time is **4 days**.

Upon completion of the works the constructor will provide to the Sydney Water Field Representative:

- A Completed work-as-executed report.
- A marked up Hydra sketch showing the work as executed information.





CRANE DISTRIBUTION LIMITED
ABN 2900003832
3/314 HOXTON PARK ROAD LIVERPOOL NSW 2170
Ph: (02 )96089322 Fax: (02 )96089622
Internet: www.tradelink.com.au
Email: liverpool@tradelink.com.au

)LD TO: 148445

148445 DELIVER TO: 148445 Delivery Number: 285613
COSMOPOLITAN BUILDERS & PLUMBERS P/L COSMOPOLITAN BUILDERS & PLUMBERS P/L Delivery Date: 14/05/03
3 KINGSNORTH ST 3 KINGSNORTH ST Sales Order Number: SO262452
DONCASTER VIC 3108 DONCASTER VIC 3108

**DELIVER BY DATE: 14/05/03** 

DELIVER BY TIME:

DECIAC	ADI IIII-	100 to 200 to 100 to 200 to 200 to	NA. 100-200			A STATE OF THE STATE OF	15/17 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	PEATEM DESCRIPTION	UOM	LIST PRICE (I INCL AP GST	GST PLIE8	ORDER STAND	NNG PELV PRICE EXC. GSI	77(4)  -> (1)  (° E   F   × , 2
663	APPLICATION PLUMBING & DRAINAGE INSPECT NO GST	EA	33.00		1.00	1.00	
674	LABOUR PLUMBING/DRAINING INSTPECTION PER HOUR	EA	49.50	*	2.00	2.00	
.000	PIER SUPERVISION/CONCRETE ENCASEMENT	EA	115.50	*	1.00	1.00	
1662		EA	115.50	•	1.00	1.00	
2081 16/	DETERMINING REQUIREMENTS ON BUILD/TECH SERVICE BUILDING PLAN APPROVALS NO GST	EA	22.00		1.00	1.00	

Signature ...... Print Name .....

I acknowledge that I have received the afore mentioned goods in the quantities stated at the specified date and time:

## SEWER AFFECTED WATER BOARD SUPERVISION REQUIRED

## OTHERWISE LETTER OF COMPLIANCE WILL NOT BE ISSUED

## 

A ple supervisia for \$115.50

B pier supervisia for \$115.50

B pier 25 per enguein metants and

D prix 25 per enguein metants and

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ADDRESS OF PROPERTY: LOT 115 ACACIA

CIRCUIT WARRIEWOOD.

## GENERAL HOUSING SPECIFICATIONS

## between

COSMOPOLITAN DEVELOPMENTS PL OWNER

## and

CONTRACTOR CONSTRUCTIONS PLL

CONTRACTOR LICENCE NO: 80391C

This information relates to Construction/Complying Development Certificate

- - 2173

Issued by an Accredited Certifier employed by Inspec NSW Pty Ltd Ph: (02) 4226 6305

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Housing Industry Association

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#### 1.0 INTRODUCTIONS

#### 1.1 General

This Specification details the works to be executed and the materials to be used in carrying out those works at the Site.

This Specification shall be read as a general specification only. The extent of the works shall be governed by the Approved Plans and Special Details where applicable.

Any works not fully detailed shall, where appropriate, be sufficiently performed if carried out in accordance with applicable Manufacturer's Recommendations or Engineer's Recommendations.

#### 1.2 Preliminary Use

This Specification forms part of the Building Contract Documents, and should be read in conjunction with the Building Agreement, Engineer's Reports, Plans and any other special details.

#### 1.3 Prevailing Documents

Where there is a difference between Plan and Specification the Plan will take precedence. The Contractor must at all times maintain a legible copy of the plans and specification bearing the approval of the appropriate authorities.

#### 1.4 Size and Dimensions

All sizes and dimensions given in this Specification are in millimetres unless otherwise stated and are nominal only.

#### 1.5 Prime Cost Items

Prime cost items listed in this Specification are Contractors cost prices, they do not include Builders margins, cost of cartage and freight. Should any of these items not be required, credit will be made at the listed price in the contract's final progress claim.

#### 1.6 Definitions

"Special Details" in respect of any item or part of the works means any drawings, plans, specifications, calculations or other documents (including Engineer's Recommendations) prepared in order to define or detail the work to be done and the materials to be used.

"Engineer's Recommendations" includes any Soil Classification Report, Preliminary Footing Report, Construction Footing Report and any other Report, Recommendation, site or other instruction, calculations or plans prepared by an Engineer in respect of the Works.

Where the words "Local Authority" are mentioned they shall mean the Local Council, or other Governing Authority, or Private Certifier with Statutory responsibility for the compliance of the work performed.

#### 2.0 STATUTORY REQUIREMENTS

#### 2.1 The Works

The Works shall be constructed in accordance with Australian Standards referred to in Section 1 of the BCA 96 Housing Provisions together with any amendment or replacement of those Standards.

#### 2.2 Regulations, Notices and Fees

The Contractor is to comply with the requirements of all legally constituted authorities having jurisdiction over the Works including the provisions of the Home Building Act.

The Contractor is to give all notices, obtain all Permits and pay all fees required by such authorities.

Where referred to in these specifications, regulations shall mean the Building Regulations and Codes (including the Building Code of Australia, as amended) statutorily enforceable at the time application is made for a permit, consent or approval.

#### 2.3 Insurance

Insurance cover of the Works against risk for Fire, Theft, Malicious Damage and Materials on Site are to be effected by the Contractor at the Contractor's expense. The Contractor shall also at his expense adequately insure Public Liability and arrange Worker's Compensation cover in respect of any liability under the Worker's Compensation Act of New South Wales.

#### 2.4 Labour and Materials

The Contractor is to provide all labour and materials to construct and complete the Building to the stage as specified in the contract documents. Materials to be of the standard specified. Workmanship in each trade to be performed by licensed tradespeople in conformity with adequate building practice. Building materials surplus to requirements of the Works shall be and remain the property of the Contractor.

#### 2.5 Electricity

The Contractor is to make arrangements for any electrical power to be used in the erection of the Works and is to pay fees and costs incurred therein. Should additional poles, wiring, service risers or underground wiring etc., be required by the Electricity Authority, this additional cost plus Builder's margin shall be borne by the Owner.

#### 2.6 Sanitary Accommodation

Prior to the commencement of any Works, unless toilet facilities exist on Site, the Contractor shall provide temporary toilet accommodation for the tradespeople. Where the Authority requires the temporary toilet to be connected to sewer mains, the additional cost plus Builder's margin of such shall be borne by the owner. On completion the Contractor shall remove the convenience.

#### 3.0 OWNER'S OBLIGATIONS

#### 3.1 Surveyor's Certificate

If the Building Agreement so indicates, the Owner shall, at the Owner's expense, obtain a certified survey of the Site. If no survey is required, the Owner hereby certifies that the placement of the existing survey pegs or fences on the Site is correct.

INITIALS	 / 

#### 3.2 Engineer's Recommendations

If the Building Agreement so indicates, the Owner shall, at the Owner's expense, provide the Contractor with reports and recommendation (including soil classification) as to the foundations and/or footings requirements for the Works prepared by an Engineer.

If the Contractor instructs any party to provide such recommendations, the Contractor does so only as an agent for the Owner.

#### 3.3 Trades Persons Engaged by Owner

The Owner shall not engage or employ any tradesperson, trade-contractor or any other person to work on the Site without the consent of the Contractor which consent may be subject to such terms and conditions as the Contractor may stipulate.

#### 3.4 Items Supplied by Owner

For all items referred to in the Specification to be supplied by the Owner, it is the responsibility of the Owner to arrange payment for delivery of and protection against damage and theft of all these items.

Delivery is to be made when requested by the Builder to the Site. If not available when required the Owner shall be obliged to make an alternative selection.

#### 3.5 Water Supply

The Owner shall, at the Owner's expense, supply adequate water to the Site for construction purposes. Unless otherwise specified, the Contractor shall pay the standard water metre connection fee to the Water Supply Authority providing this service is prelaid to the Site ready for use. The Owner shall be responsible for any fee to be paid in *excess* of the standard water metre connection fee.

#### 3.6 Sanitation

Unless otherwise specified, the Owner shall, at the Owner's expense, supply sewerage connection riser or common effluent drainage connection riser on the Site. Unless otherwise specified, the Contractor shall pay the standard *sewer* connection fee to the Supply Authority providing this service is to prelaid to the Site and ready for use.

The Owner shall be responsible for any fee to be paid in excess of the Standard sewer connection fee.

#### 3.7 Site Clearance

At the Owner's expense clear only the Site area of building work including vegetation stumps, boulders, rubble and the like to a minimum distance of 1.000mm outside the building or to the boundaries of the allotment, whichever is the less and fill any depressions within the area covered by the building.

#### 4.0 PLANS, PERMITS AND APPLICATION FEES

#### 4.1 Permits and Fees

Unless otherwise agreed, the Contractor shall lodge all necessary application notices, plans and details with the Local Authority for approval prior to commencement of construction.

#### 4.2 Mines Subsidence

In areas affected by mines subsidence the appropriate authority to be consulted and work carried out in accordance with their requirements as a variation, any additional cost plus Builders Margin is to be borne by the Owner.

#### 4.3 Setting Out

The Contractor shall accurately set out the Works in accordance with the Site Plan and within the boundaries of the Site.

#### 5.0 EXCAVATIONS

5.1 Subject to Clause 3.7 the Site covered by the Building and an area at least 1,000mm wide around the Building or to boundaries of the Site – whichever is the lesser, shall be cleared and/or graded as indicated on the Site Works Plan.

Top soil shall be cut to a depth sufficient to remove all vegetation

Excavations for all footings shall be in accordance with the Engineer's Recommendation or Part 3.2.2 BCA 96 Housing Provisions.

#### 6.0 FOUNDATIONS AND FOOTINGS

#### 6 1 Underfloor Fill

Underfloor fill shall be in accordance with AS 2870 or Part 3.2 BCA 96 Housing Provisions.

#### 6.2 Termite Risk Management

Termite treatment shall be carried out in accordance with Part 3.1.3 BCA 96 Housing Provisions or AS 3660.1.

#### 6.3 Vapour Barrier

The underfloor vapour barrier shall be in accordance with AS 2870 or Clause 3.2.2.6 BCA 96 Housing Provisions.

#### 6.4 Reinforcement

Reinforcement shall conform and be placed in accordance with AS 3600. AS 2870 and the Engineer's recommendations.

Support to all reinforcement shall be used to correctly position and avoid any undue displacement of reinforcement during the concrete pour.

#### 6.5 Concrete

Concrete shall not be less than Grade N20 except where otherwise approved by the Engineer.

Structural concrete shall be in accordance with AS 3600. Pre-mixed concrete shall be manufactured in accordance with AS 1379 with delivery dockets kept on Site and available for inspection by the Engineer.

Concrete shall be placed and compacted in accordance with good building practice. In hot (above 30 degrees Celsius) and windy conditions concrete must be cured by covering with plastic sheeting, spraying with a curing compound or pouding of water on the surface, or as directed by the Engineer.

#### 6.6 Footings and Slabs on Ground

Concrete slabs and footings shall not be poured until approval to pour concrete is given by the Engineer or the Local Authority.

NOTE: Bench levels and floor levels on the Site Works Plan shall be regarded as nominal, unless specified otherwise.

#### 6.7 Suspended Slabs

All concrete slabs, other than those supported on solid ground or properly compacted filling, shall be constructed as suspended slabs. These slabs shall be constructed in accordance with the Engineer's recommendations.

#### 6.8 Foundation Walls

On footings as previously specified build brick walls to the thickness shown on plan to level underside of floor bearers and/or plates.

#### 6.9 Sub-Floor Ventilation

Provide adequate cross ventilation to the space under suspended ground floor. No section of the under floor area wall to be constructed in such a manner that will hold pockets of still air.

#### 6.10 Sub-Floor Access

Provide access under suspended floors in position where indicated on plan.

#### 6.11 Curing

All slabs shall be cured in accordance with AS 3600.

#### 7.0 RETAINING WALLS

#### 7.1 Retaining Walls

Retaining walls shall be constructed as shown on the plans and/or special details designed by an Engineer and if applicable approved by the Local Authority whether the construction of such shall be the obligation of the Owner or the Contractor.

#### 8.0 EFFLUENT DISPOSAL/DRAINAGE

8.1 In both sewered and unsewered areas, fit bath, wash basin, kitchen, wash tubs, pedestal pan and floor grate to shower recess in positions shown on plan. (Refer to schedule of fittings). Provide waste pipes with traps to the above fittings and connect to the drainage system. The whole of the work to be performed in accordance with the rules and requirements of the Sewerage Authority concerned.

#### 8.2 Septic System

Provide and install a septic system where applicable to the requirements of Local Authority and in accordance with the manufacturer's instructions.

#### 8.3 Storm Water Drainage

Allow for the supplying and laying of storm water drains where shown on Site Plan. Drains to be a minimum of 90mm UPVC pipes laid to an even and regular fall so as to have a minimum cover of 150mm. Drains to discharge into street gutter where possible. Where outlets are shown within the Site they are to discharge at least 3,000mm clear of the building. If the Authority's requirements give rise to a variation, any additional cost plus Builder's margin is to be borne by the Owner.

#### 9.0 TIMBER FRAMING GENERALLY

#### 9.1 Timber Framing

All timber framework sizes, spans, spacing, notching, checking and fixing shall comply with the provisions of AS 1684 or Part 3.4.3 BCA 96 Housing Provisions. Alternative structural framing to Structural Engineer's details and certification.

The work shall be carried out in a proper and tradesperson like manner and shall be in accordance with recognised and acceptable trade practices.

#### 9.2 Floor Framing

All floors not specified to be concrete are to be framed at the level shown. Span and spacing of bearers is to conform to the requirements of the span tables for the appropriate member size. Deep joists to upper floors, where shown are to be fitted with solid blocking or herringbone strutting as required. All sizes and stress grades of timber members and tie down methods are to be in accordance with AS 1684.

#### 9.3 Wall Framing

Plates are to be trenched to a depth not exceeding 10mm to provide uniform thickness where studs occur. Where plates are machine gauged to a uniform thickness, trenching may be omitted. Wall framing is to be erected plumb and straight and securely fastened to floor framing. Provide a clear space of 40mm between outer face of wall frame and inner face of brick veneer walls. Tie brickwork to studs with approved veneer ties. Ties are to slope downwards towards the veneer wall.

Studs in each panel of walling shall be stiffened by means of solid noggings or bridging pieces at not more than 1,350mm centres over the height of the wall. Bottom plates shall be fixed to the concrete slab in accordance with AS 1684.

#### 9.4 Heads Over Opening (Lintels)

All sizes, stress grade and bearing area shall conform to AS 1684 or NSW Timber Framing Manual. Heads exceeding 175mm in depth shall be seasoned or a low shrinkage timber species use. Plywood web lintels conforming to the requirements of Plywood Association of Australia may be used. Glue Laminated beams conforming with AS 1328. If approved by the Lending Authority, Laminated Veneer Lumber beams to manufacturer's specification and data sheets may be used.

#### 9.5 Roof Trusses

Where roof truss construction is used, trusses shall be fabricated in a properly equipped factory and erected, fixed and braced in accordance with the fabricator's written instructions.

#### 9.6 Bracing

Timber frames must be braced in accordance with Clause 3.4.3.8 BCA 96 Housing Provisions. Bracing units shall be determined as appropriate for the design wind velocity for the building or AS 1684. Bracing shall be evenly distributed throughout the building.

#### 9.7 Flooring

Cover floor joists with strip or sheet flooring as shown on plan. Thickness of flooring to be appropriate for the floor joist spacing. With particular regard to ground clearance and installation in wet areas, structural sheet flooring shall be used strictly in accordance with the manufacturer's recommendations or Part 3.4.3 BCA 96 Housing Provisions.

Strip flooring shall be in accordance with AS 1684.

When listed in Schedule of Works, floors shall be sanded to provide an even surface and shall be left clean throughout.

#### 9.8 Roof Framing

Roofs are to be pitched to the slope shown on plan and constructed in accordance with Clause 3.4.3.6 BCA 96 Housing Provisions or AS 1684. Provide tie-down as required for the appropriate design wind velocity and roof covering. Provide all rafters, ridges, hips, valleys, pulins, struts, collar ties and wind bracing as appropriate with all sizes and stress grades in accordance with AS 1684.

Metal fascias shall be installed in accordance with the manufacturer's recommendations.

#### 9.9 Timber Posts

Posts supporting carports, verandas and porches shall be timber suitable for external use, or as otherwise specified, supported on galvanised or treated metal post shoes. Post shall be bolted to all adjoining beams as required by AS 1684 for the wind speed classification assessed for the Site.

#### 9.10 Corrosion Protection

All metal brackets, facing plates and other associated fixings used in structural timber joints and bracing must have appropriate corrosion protection.

#### 9.11 Hot Water Storage Tank Platforms

Where a hot water storage tank is to be installed in the roof space, the tank platform shall be supported directly off the wall plates and must not be supported on ceiling joists.

All hot water services installed in the roof space shall be fitted with an appropriate spill tray and overflow drain pipe.

#### 10.0 STEEL FRAMING GENERALLY

#### 10.1 Steel Framing

Steel floor, wall or roof framing approved by the Local Authority shall be installed in accordance with the manufacturer's recommendations and AS 3623 or Part 3.4.2 BCA 96 Housing Provisions.

#### 11.0 ROOFING

All roof cladding to comply with the relevant structural performance and weathering requirements of BCA 96 Housing Provisions and be installed as per the manufacturer's requirements.

#### 11.1 Tiled Roofing

Concrete and terracotta tiles shall comply with AS 2049 and be installed in accordance with AS 2050. Cover the roof of the dwelling with first quality approved tiles as selected. The tiles are to be fixed to approved battens of sizes appropriate to the spacing of rafters/trusses in accordance with manufacturer's recommendations. Cover hips and ridges with capping and all capping and all necessary starters and apex caps. Capping and verge tiles are to be well bedded and neatly pointed. Roofing adjacent to valleys should be fixed so to minimise as far as practicable water penetration. As roof tiles are made of natural products slight variation in colour is acceptable.

#### 11.2 Roofing

Provide and install a metal roof together with accessories all in accordance with the manufacturer's instructions

Except where design prohibits, sheet shall be in single lengths from fascia to ridge. Fixings of sheet shall be strictly in accordance with the manufacturer's recommendations. Incompatible materials shall not be used for flashings, fasteners or downpipes.

#### 11.3 Rainwater Goods

Metal Rainwater goods shall be manufactured in accordance with AS 2179. Rainwater goods shall be installed in accordance with AS 2180 or Part 3.5.2 BCA 96 Housing Provisions.

UPVC components to be manufactured in accordance with AS 1273. Rainwater goods to be compatible with other materials used.

#### 11.4 Sarking

Sarking if used under roof coverings must comply and be fixed in accordance with AS/NZS 4200.1 for materials and AS/NZS 4200.2 for installation.

#### 11.5 Sealants

Appropriate sealants shall be used where necessary and in accordance with manufacturer's specifications.

#### 11.6 Weatherproofing

Flashings shall comply with AS 2904, AS 1804, AS 3700 and Part 3.3.4 BCA 96 Housing Provisions.

#### 12.0 MASONRY

#### 12.1 Bricks

All clay bricks and brickwork shall comply with AS/NZS 4455, AS/NZS 4456 and AS 3700. Clay bricks are a natural kiln fired product and as such their size may vary over a small range. Tolerances shall only be applied to the total measurements over 20 units, not to the individual units.

#### 12.2 Concrete Blocks

Concrete blocks are to be machine pressed, of even shape and well cured in accordance with AS 2733.

Autoclaved Aerated Concrete blocks shall be in accordance with the manufacturer's Product Specification at the time the work is being carried out.

#### 12.3 Damp Proof Courses

All damp proof courses shall comply with Part 3.3.4 BCA 96 Housing Provisions, AS 3700 and AS 2904. The damp proof membrane shall protrude to the external face of the masonry member in which it is placed.

#### 12.4 Cavity Ventilation (Weep Holes)

Cavities shall be cleared of all mortar droppings and weep holes shall not exceed 1,200mm centres, be in accordance with AS 3700, or Clause 3.3.4.3 of the BCA 96 Housing Provisions.

#### 12.5 Mortar and Joining

Mortar shall comply with AS 3700 or Part 3.3.1 BCA 96 Housing Provisions. Joint tolerances shall be in accordance with AS 3700.

#### 12.6 Masonry Accessories

Compliance with Part 3.3.3 of BCA 96 Housing Provisions in acceptable construction practices. All wall ties shall be manufactured in accordance with AS 2699 and be installed in accordance with AS 3700. Wall ties to meet corrosion resistant rating of the site. Provide appropriate ties to articulated joints in masonry.

#### 12.7 Lintels

Lintels used to support brickwork opening in walls must be suitable for the purpose under Part 3.3.3 BCA 96 Housing provisions. Provide one lintel to each wall leaf. Where necessary clearance must be allowed at heads of frames to allow for shrinkage of timber frames.

#### 12.8 Cleaning

Clean all exposed brickwork with an approved cleaning system. Care should be taken not to damage brickwork or joints and other fittings.

#### 13.0 CLADDING AND LININGS

#### 13.1 External Claddings and Linings

Sheet materials or other external cladding shall be fixed in accordance with the manufacturer's recommendations and any applicable special details.

#### 13.2 Internal Wall and Ceilings Linings

Provide gypsum plasterboards or other selected materials to walls and ceilings. Plasterboard sheets to have recessed edges and be a minimum of 10mm thick. Internal angles from floor to ceiling to be set. Set corners or provide cornices for ceilings as required. The lining of wet area walls shall be constructed as per AS 3740 or Part 3.8.1 BCA 96 Housing Provisions. Wet area lining to be fixed in accordance with the manufacturer's recommendations.

Where required in open veranda's, porches and eaves soffits, material indicated on the drawing shall be installed. The ceiling access hole shall be of similar material to the adjacent ceiling. Suitable cornice moulds where required shall be fixed at the junction of all walls and ceilings.

#### 13.3 Waterproofing

All internal wet areas and balconies over internal habitable rooms to be water proofed to AS 3740 or Part 3.8.1 BCA 96 Housing Provisions.

#### 14.0 JOINERY

#### 14.1 General

All joinery work (metal and timber) shall be manufactured and installed according to good trade practices.

#### 14.2 Door Frames

External door frames shall be a minimum of 32mm thick fitted with 10mm thick door stops. Internal jamb linings shall be a minimum of 18mm thick fit with 10mm thick door stops. Metal door frames shall be installed where indicated on drawings in accordance with the manufacturer's recommendations.

#### 14.3 Door and Doorsets

All internal and external timber door and door sets shall be installed in accordance with AS 1909. Timber Doors and Door Sets and shall be manufactured in accordance with AS 2688 and AS 2689.

#### 14.4 Window and Sliding Doors

Sliding and other timber windows and sliding doors shall be manufactured in accordance with AS 2146 and be installed in accordance with AS 2147.

Aluminium windows and sliding doors shall be installed in accordance with manufacturer's instructions. All glazing shall comply with AS 1288 or Part 3.6 BCA 96 Housing Provisions.

#### 14.5 Architraves and Skirting

Provide architraves and skirting as nominated on the drawings or listed on the Schedule of Works.

#### 14.6 Cupboards/Kitchens/Bathroom

Units shall be installed to manufacturer's recommendations. Bench tops shall be in a water resistant material.

#### 14.7 Stairs, Balustrades and other Barriers

Provide stairs or ramps to any change in levels, and balustrades or barriers to at least one side of ramps, landings and balconies as per BCA Housing Provisions, Part 3.9.1 for stair construction and 3.9.2 for balustrades.

#### 15.0 SERVICES

#### 15.1 Plumbing

All plumbing shall comply with the requirements of the Supply Authority and the work is to be carried out by a licensed plumber.

Fittings shall be supplied and installed as specified.

#### 15.2 Electrical

Provide all labour and materials necessary for the proper installation of electricity service by a licensed electrician in accordance with AS 3000, AS 3006 and the requirements of the local Supply Authority, unless otherwise specified, the electrical service shall be 240 volt, single phase supply.

#### 15.3 Gas

All installation (including LPG) shall be carried out in accordance with the rules and requirements of the Supply Authority.

#### 15.4 Smoke Detectors

Provide and install smoke alarms manufactured in accordance with AS 3786 as specified or as indicated on plan and in accordance with Part 3.7.2 BCA 96 Housing Provisions.

#### 16.0 TILING

#### 16.1 Materials

Cement mortar and other adhesives shall comply with AS 3958.1 according to trade practices.

#### 16.2 Installation

Installation of tiles shall be in accordance with AS 3958.

All vertical and horizontal joints between walls and fixtures e.g. benchtop, bath etc., to be filled with flexible mould resistant grout. Where practicable spacing between tiles should be even and regular. Provide expansion joints where necessary. As tiles are made of natural products a slight variation in colour is acceptable.

#### 16.3 Walls

Cover wall faces where indicated on the drawings with selected neatly grouted tiles. Tiles are to be fixed to wall sheeting with approved adhesives. Provide all necessary strips, vent tiles and recess fittings.

#### 16.4 Floors

Lay selected floor tiles in sand and cement mortar or approved adhesive to areas indicated on the drawings. If required, fit approved edge strips or metal angle to exposed edges in doorways or hobless showers as per AS 3740. Provide adequate and even fall to wastes where necessary.

#### 17.0 PAINTING

#### 17.1 General

All paint used shall be of a quality suitable for the purpose intended and the application shall be as per the manufacturer's recommendations. The colours used shall be as per Colour Schedule. All surfaces to be painted shall be properly prepared to manufacturer's recommendations.

#### 18.0 PRIME COST ITEMS

	List hereunder all P	C. Allowances			
	Kitchen and Vanity	Cupboards (kitchen sink i	ncluded)		\$
	Stove/Wall Oven/H	Hot Plates			\$
	Bath per item			per item	\$
	W.C. Suites			per item	\$
	Laundry Tub				\$
	Entry Door				\$
	Door Furniture				\$
	Garage Door				\$
	Hot Water System				\$
	Shower Screen				\$
	Wall and Floor Tile	s supply only			\$/m
	Bricks				\$/,000
19.0	Signed by the said Owner in the	ation referred to in the Bu			Date://
	Presence of	11/2	Owner's Sign		Date
		Witness	Owner's Sign	acure	
	Signed by the said	Witness	Owner's Sign	ature	Date
	Signed by the said Contractor in the	Witness	Owner's Sign	ature	Date
		Witness	Owner's Sign		

25/01



#### **Transaction Summary**

Sydney

Date Requested

Mon March 31 2003

A.B.N 49 776 225 038

Agent

Tradelink Liverpool, ?

**Applicant** 

COSMOPOLITAN CONSTRUCTIONS, 1/4 IRAKING AVE MOOREBANK 2170

This document will be a tax invoice when you make payment.

	maka Na	Charge	GST	Total
Transaction	ST NO ACOCIC			
Lot 126 Maho	gany Bvd, Warriewood 2102	\$20.00	\$0.00	\$20.00
	720925 Building Plan Approval Application Fee	\$90.00	\$9.00	\$99.00
04 97	<ul><li>720928 Inspection Charge</li><li>720928 Plumbing and Drainage Inspection Application Fee</li></ul>		\$0.00	\$30.00
Transaction	Total	\$140.00	\$9.00	\$149.00

28/4-100 Paid
14/05-Paid



## **SPECIFICATION**

FERNBROOK SANCTUARY
WARRIEWOOD
This Information relates to

Site Address: Lot 115 Acacia Drive, Construction/Complying Development Certificate

Warriewood.

Issued by an Accredited Certifier employed by Inspec NSW Pty Ltd Ph; (02) 4224 6305

Client: Stockland Residential Developments

Dated: 1

11/11/02

#### **Externals:**

- Waffle Pod Slab Construction based on "M" class Soil classification
- Perimeter Granite Guard to Veneer walls, and in slab collar protection to penetrations
- 2.440mm Ceiling Heights to First Floor's.
- 2.700mm Ceiling Heights to Ground Floor's
- Aluminium Powdercoat Sliding Windows and sliding doors with key lock to all windows and deadlock to sliding doors
- Flyscreens to all sliding Windows AND Sliding Doors
- Security Sliding & Hinged Doors
- Meranti Timber Entry Frames with timber Hardwood sills & clear glass glazing
- Face Brickwork & Painted Brickwork from Builders range.
- Colourbond Fascia & 115mm Colourbond Quad Gutter
- Builders range of Standard Profile, Concrete Roof Tiles
- Two External Garden Taps per unit
- Sectional Overhead Panel Lift to front Garage Doors to suit widths
- One Auto Garage Door Opener
- Treat Pine Pergolas & Breezeway.
- Landscaping including Turfing and Plants
- 3.0m dia Fold-away Clothes Line.

- Stencilled Pattern Driveways and Paths
- 600L Rainwater Tank connected to Stormwater system

#### Electrical:

- Full Gas installation to Cooktop, Hot Water Service and two Internal Heating Points.
- Dishwasher point including Plumbing and Electrical
- Standard Ceiling Battens to Light Points, 1 per room except Kitchen & Family that has up to 8 x Low Voltage Downlights.
- Base range of Screw in Light Fittings
- Front and rear external Eave Light Batten
- Double Power Points throughout, 1 per room except Kitchen & Laundry, singles to fridge, rangehood, dishwasher and microwave (if in design)
- One Two-way Light Switch provision
- Three Phase Meter Box and meters
- Safety switch in Meter Box
- Two hard wired Smoke Detectors with inbuilt battery back-up
- Ceiling Exhaust Fans to Bathroom, Ensuite, and Powder room all ducted into ceiling space
- One Phone Point to Kitchen, One Phone point to Bed 1
- 2 x TV Points
- Accent Air 6.3hp 18kw full Ducted, Reverse Cycled, 3 Zone Air Conditioning system.

#### Internals:

- Standard White Floor wastes to wet rooms
- Hume Ultimo XU8, XU10, XU12 & XU19 Front Entry Doors
- Hume "X1" D.T.H. to rear entry doors as per design
- Gainsborough Governor Entry Sets
- Gainsborough 850 Double Cylinder Deadbolt
- 90mm Cove Comice throughout
- 10mm Plasterboard to Internal walls and all Ceilings and 6mm Villaboard walls to Wet Rooms
- 45L Clarke "Eureka" Laundry Tub and Cabinet
- Pine Stringers, MDF Treads & Risers with standard 32 x 32 Pine Balustrades & Handrail.
- 75mm x 25mm Colonial MDF Primed Skirting and Achitrave
- Hume Oakfield internal hinged doors
- Hume Oakfield Smart Robe doors to Robes
- Clairson Wire Shelving to Robes and Linens
- New Horizons "Sterling" internal Lever door furniture in Chrome finish
- Caroma "Watermark" range of Bathroom Accessories
- 1.850mm high Aluminium Shower Screens to builder range of colours
- Semi Frameless Pivot doors to Shower Screens

• Vertical Blinds to all Windows and Sliding Doors.

#### Kitchens & Vanities:

- 20mm Pencil Round Granite Benchtops
- Laminated Kitchens using three door finish options:
  - Square Edge doors with 2mm PVC edging
  - Formtek Vinyl Vacuum Formed doors
  - Colonial or Contemporary Bevelled edged doors
- Timber Veneer or Laminated Kickboards to match doors colours
- Overhead Cupboards to Cooktop including Rangehood cabinet
- Overhead Fridge Cupboard
- 2.1m high wall cupboards as per design
- Full Gloss Polyurathane Vanities including Drawers with Moulded one piece Tops
- Frameless Vanity Mirrors with "Bevelled Edge" to suit vanity widths

#### Floor & Wall Tiling:

- Wall Tile Supply Rate using a Retail rate of \$35/m2
- Patio Floor Tiles using a Retail rate of \$35/m2
- Ceramic Tiles to Kitchens & Entry Floors
- Tiling heights as follows:

#### Bathrooms & Ensuite

- 1.85m Shower height
- 1.20m wall height to remainder

#### Powder Rooms

- 1.85m to showers (per design)
- Skirting Tiles to remainder

#### Laundries

- 600mm x 600mm Splashback to Tub
- Skirting Tiles to remainder

#### Painting:

- Paint Specification as follows:
  - 2 Coat Washable Vinyl to internal Walls
  - Flat Paint to Ceilings
  - Satin Enamel to internal Timber work
  - 3 colour only selection allowance

#### **PC Inclusions:**

- Fowler "Pacific" Premier Consort Links Toilet Suites
- 1525mm Caroma "Verona" acrylic Bath
- 185L Dux Gas Hot Water Service
- Clarke 2053F 1 ½ Bowl Stainless Steel Kitchen sink
- Omega OA60X S/steel Electric 600mm Underbench Oven

- Omega OAR22X S/steel Gas 600mm Cooktop
- Omega OA416X S/steel 600mm Retractable Ducted Rangehood
- Omega DW2000W white Dishwasher
- Caroma "Nordic" Kitchen Sink Mixer tap
- Caroma "Trident" tapware throughout in Chrome, with Chrome 450mm Telescopic spout to Laundry tub.

## Certificate of Insurance

Cosmopolitan Constructions Pty Ltd
1/4 Iraking Avenue
MOOREBANK NEW SOUTH WALES 2170

Royal & Sun Alliance Insurance Australia Ltd ABN 48 005 297 807

Form 1 Section 92 Home Building Act 1989

CERTIFICATE IN RESPECT OF INSURANCE

**Local Authority Copy** 

Issue Date:

14/01/2003

Certificate No.:

RCW71304484

Contract Of Insurance Complies With: Section 92

Of The: Home Building Act 1989

Type Of Insurance: As per the Home Building Act 1989, insurance is

'issued in the name of the Building Owner as

insured

Issued By: Royal & Sun Alliance Insurance Australia Ltd

ABN 48 005 297 807

#### **Building Contract Details**

Contract Date: January 17, 2003

Declared Building Contract Value: \$200,000

(Refer policy for indemnity limit)

Carried Out By: Cosmopolitan Constructions Pty Ltd

ABN: 73076666610

License No.: 80391C

For: Cosmopolitan Developments

In Respect Of: Single Dwelling

At:

House No: 115 Acacia Circuit

WARRIEWOOD NEW SOUTH WALES 2102

Permit Authority: Pittwater Council

Subject to the Act, the Home Building Regulation 1997, and the conditions of the insurance contract, cover will be provided to a beneficiary described in the contract and successors in the title to the beneficiary. Please note when the Insurer has issued this Certificate of Insurance, the Insurer is not entitled to refuse to pay a claim, or to cancel the insurance contract, on the grounds that the premium was not paid. This policy is to be read in conjunction with the policy wordings, if you have not received a copy of the policy wording please contact the Insurer Royal & SunAlliance.

N

Signed for and on behalf of the insurer:

N. Kil

ROYAL & SUNALLIANCE

CONSTRUCTION & ENGINEERING

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#### APPLICATION FORM

Construction Certificate
Complying Development Certificate
Principal Certifying Authority
Occupation Certificate
Compliance Certificate

/	103 kenny street
	wollongong nsw 2500
	p: 4226 6305
	f : 4226 6306
	e: info@inspec.com.au
	abn: 49 080 593 371

APPLICATION			Date of Applic	ation:	19.3.		j
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Proposed Building	g Work:	Residential [	Comme	rcial 🗅	Ind	lustrial 🗆	]
Description of D	evelopment:	Two storey	prick vei	neer c	dwellin	q with ga	rag
Value of Work:	\$220,000.0	Type of work	:	Erection	of Building		
Building Classific	ation:	la					]
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Development Cor	sent No.:	N1016 102		Date o	f Issue:		
Builder or Owner	r/Builder Name:	Cosmopolitar	Construct	MLicence	No.:	80391C	]
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Surname: Co	smopolitor	Constructions	rst Name:				]
Address:	114 Irakir	ra Avenue r	noowbar	OR NO	SW at	70	}
Contact No's.:	9601 84	98.					]
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Contact No's.:							]
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		ncipal Certifying Auth ed). In providing this					
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		been documented and p					
also advise that I	I have met all of th	he conditions contained	in the Developme	ent Consent	t required t	to be satisfied	
before I/we beg	in work,						
LETTER OF COL	<b>USENT</b>						
		ntioned above, please b					
relevant applicat	tions (i.e. for Con	struction Certificate/s	i, Camplying Devi	elopment (	Certificate	/s, Occupation	
Certificate/s, Co	mpliance Certifica	te/s) and documentation	n to Inspec NSW	Pty Ltd fo	or consider	ation.	_
SIGNATURES							i
Applicant			Owner/s				٦
Signature (1)	sury -	Date 19/3/03	Signature			Date	.
$\cup$	U		Signature			Date	Ĭ
			Signature			Date	



#### CLIENT INFORMATION

103 kenny street wollongong nsw 2500 p: 4226 6305 f: 4226 6306

e: info@inspec.com.au abn: 49 080 593 371

PEOPLE	
COMPANY	INDIVIDUAL
Company Name Cosmopolitan	First Name
Contact Name	Surname
<u>ADDRESSES</u>	<b>:</b>
HOME/OFFICE	POSTAL
Street No. 114	PO Box
Street Name Iraking Avenue	Street No.
Suburb Moorelank	Street Name
State NSW	Suburb
Post Code 2170	State
	Post Code
	DX No.
·	DX Suburb
COMMUNICATION	
WORK	HOME
Phone No. 9601 8493	Phone No.
Fax No.	Fax No.
Mobile No.	Mobile No.
Email	Email
Web	Web



PROPOSED:

wollenging office
103 kenny street, wallanging new 2500
p · 02 4226 6305 f - 02 4226 6306
e · Info@inspec.com.au
web - http://www.laspec.com.au
aba 49 080 593 371

### letter of consent

ADDRESS:	Cot 115 Acacia	Cct Warr	iewood:	
	<u> </u>	,		· .
consent to lodge Development Cer	the proposal mentioned al all relevant applications ( tificate/s, Occupation C Inspec NSW Pty Ltd for co	i.e. for Constru ertificate/s, C	action Certificate/	s, Complying
an Accredited Cer Environmental Plan that the appointe during the course the Accredited C Certificate or Con with any Developm Inspec NSW with contained in any D	posal I/we acknowledge and tifier to fulfil the role of inning and Assessment Act, of Accredited Certifier or of construction. I/we also ertifier for consideration applying Development Certifient Consent or that any chartest authorisation. I also evelopment Consent required uited any clarification where any clarification where	Principal Certify 1979 (as amend his/her delega o declare that as part of any icate has remainanges have bee and advise that I ad to be satisfic	ving Authority as o ded). I/we further the will carry out all documentation application for a fined unaltered from documented and have met all of the defore I/we be	entlined in the crunderstand 2 inspections presented to Construction m that issued presented to the conditions gin work.
Natalie You	on Ph: 9601 849	8 between	sen <i>9am - 5pm</i> on	weekdays.
Yours Faithfully	•			-
			:	
Owner		Owner :		
Date:		Date:		
Owner		Owner		
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