## DK BUILDING CERTIFIERS

PTY LTD
BUILDING REGULATIONS & FIRE SAFETY CONSULTANTS

SUITE 4, 470 SYDNEY ROAD, BALGOWLAH NSW 2093 PO BOX 929 BALGOWLAH NSW 2093 TEL: 9400 2335 FAX: 9400 2405 email: info@dkbuilding.com.au ABN: 96 097 502 700

Our ref: 06088-2/dos

4th December, 2006

The General Manager
Pittwater Council
P O Box 882
MONA VALE NSW 1660

Dear Sir

Re: 41 BUNGAN HEAD ROAD NEWPORT – DECK PLUS RETAINING WALL CONSTRUCTION CERTIFICATE DETERMINATION No 06088-CC DA No 415 / 06

Please find attached my determination of the Construction Certificate together with a cheque for \$30.00 being the lodgement fee for the above mentioned certificate including all relevant details for your records.

If you require any further information or explanation, please do not hesitate to contact me.

Yours faithfully DK Building Certifiers Pty Ltd

Damian O'Shannassy - maibs

**Executive Director** 

Accredited Certifier No 6175

- 7 DEC 2006

PITTWATER COUNCIL

R. 206961

6/12/06 \$30-

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#### Form 11

### Construction Certificate Determination

Determination

Approved (Deck & retaining wall)

date of determination

4th December 2006

Subject land

Address

lot no., DP/MPS, etc. volume/folio

**Estimated Cost** 

41 Bungan Head Road, Newport NSW 2106

Lot No 55 DP 10423

\$8000.00

Attachments

- Owner Builder permit No 313495P issued 3rd October, 2006
- Sydney Water approval stamp dated 29 November, 2006
- · CC application form

Plans and specifications approved

list plan no.(s) and specifications reference

Architectural Documentation as prepared by Cardno (NSW) P/L, dated  $23^{\rm rd}$  June 2006, Drawing No 605038-D-001/002, Rev A

Structural Engineering Design Documentation as prepared by, Cardno (NSW) P/L, dated 20th October 2006, Drawing No605038-D-003/004, Rev A

#### **Applicant**

Name

Address

Contact no. (telephone/fax)

Anthony Bloom

41 Bungan Head Road, Newport NSW 2106

Ph: (02) 9997-4671 Mobile: 0438-310-137

Email: bloom.bungan@bigpond.com.au

#### Owner

Name

Address

Contact no. (telephone/fax)

Anthony & Phyllis Bloom

41 Bungan Head Road, Newport NSW 2106

Ph: (02) 9997-4671 Mobile: 0438-310-137

Email: bloom.bungan@bigpond.com.au

## Certificate

#### Certificate

I certify that the work, if completed in accordance with the documentation accompanying the application for a Certificate, will comply with the requirements of Clause 147(1)(e) of the *Environmental planning and Assessment Regulation 2000* as referred to in Section 81A (5) of the *Environmental Planning and Assessment Act*, 1979.

Signature date of endorsement Certificate no.

4<sup>th</sup> December 2006 06088-CC

#### Certifying authority

Name of certifying authority if accredited certifier: Accreditation no. Contact no. address

Damian O'Shannassy

Accreditation Number 6175 'Dept of Planning - NSW'

Ph: (02) 9400 2335 Fax: (02) 9400 2335

Suite 4, 470 Sydney Road

Balgowlah NSW 2093

#### Development consent

Number and date of determination

Development Application Number: 415/06 (Pittwater Council) Date of Determination: 21st September 2006

**BCA Classification** 

Class 1a & 10b



ANTONY ROSS BLOOM 41 BUNGAN HEAD ROAD NEWPORT NSW 2106 HOME BUILDING ACT 1989

OWNER BUILDER PERMIT

Permit :313495P Receipt:AA2293130 Issued: 03/10/2006 Amount: \$135.00

Building Site:

41 BUNGAN HEAD ROAD, NEWPORT 2106

Authorised Building Work:

DA NO415/06 DECK ADJOINING REAR OF HOUSE 6M\*6M

ISSUED BY PITTWATER COUNCIL

Should the property be sold within 6 years of completion of the work it will be necessary to obtain home warranty building insurance from approved insurers if the value of the work was greater than \$12,000. A certificate of insurance must be attached to any contract for sale.

You should obtain professional advice from general insurers regarding public liability and property damage cover, etc.

Note: This permit is only valid when an official receipt has been imprinted.

If payment is made by cheque, the permit is conditional on the cheque being met at presentation.

Issuing Officer

\*\*\*\*\*\*\* END OF PERMIT \*\*\*\*\*\*\*

SYDNEY WATER The second secon APPROVED

PBBIRISH OF SHEETER IN Telation to Sydney

While assets is satisfactory.
While assets is satisfactory.
While assets is satisfactory.
Ebritelities to Sydney Water sewer/water
services may offly be made following the issue
of a permit to a licensed plumber/drainer.
It is the owner's responsibility to ensure that
all proposed fritings will drain to Sydney
water sewer.
Any Plumbing and/of Drainage Work to be
water duit in accondance with the Sydney
earlied out in accondance with the Sydney
water Act 1994, As 3500 and the NSW Code

of Pfaelite. Gegigh Shafts and Boundary Traps Guilles, hispection under any Roof, Balcony shall hot be piaced under any Roof, Balcony verandah; Floor or other cover unless verandah; Floor or Sydney Water. Other wife wife approved by Sydney Water.

Preperty No.

Quick Check Agent on behalf of Reece, Mona Vale SYDNEY WATER

90111160 331111100

CONJUNCTION WITH THE COMPILETY APPROVED DEVELOPICAL COUNCIL

## DK BUILDING CERTIFIERS

PTY ITD

**BUILDING REGULATIONS & FIRE SAFETY CONSULTANTS** 

SUITE 4, 470 SYDNEY ROAD, BALGOWLAH NSW 2093
PO BOX 929 BALGOWLAH NSW 2093
TEL: 9400 2335 FAX: 9400 2405
email: info@dkbuilding.com.au
ABN: 96 097 502 700

# Application for a Construction Certificate

1. Details of the a	pplicant		
Mr ☑ Ms ☐ Mrs	Dr Other		
First name	Family name		
ANTONY	BUDOM		
Flat/street no.	Street name	0-1:	
Suburb or town	BUNGAN KEAD	of the state of the first of the state of th	D-4-3
NEW POR-		State NSW	Postcode
Daytime telephone	Fax	Mobile	
9997 4671		0438310	137
Email	3 . 3 . 4		
STATES SERVICES CONTRACTOR SEPTEMBERS OF SERVICES CONTRACTOR SERVICES	CONCAND BIGGOND. COL	1.40	
2. Identify the land			
Flat/street no.	Street name  BUNGAN HEAD A	2011	
Suburb or town	1801181111 112.13	w <sub>H</sub> ,	Postcode
NEWPOR	7		2106
Lot no.	Section		
55			
DP/MPS no.		ume/folio	
IN THE RESIDENCE OF THE PARTY O	o., section, DP/MPS no. and volume/	/folio details on a map of the lan	d or on the
title documents for the these details.	land. If you need additional room, p	please attach a schedule and/or	a map with
3. Estimated cost	of the development		
\$ 8000.0	o including GST		
	indicating don		

What type of work do you propose to carry out?  Building work	Barrellander in der State
Subdivision work	
Describe the work	
CONSTRUCTION OF RETAIN	WINE WALLS, NITH DECK
OVER.	
For building work, what is the class of the building	gunder the Building Code of Australia?
This can be found on the development consent	
Has development consent been granted for the c	development?
No 🔲	
Yes What is the development app	olication no.?
NO 415/06	second granted?
What date was development	consening affect.
21-9-06	AND THE PROPERTY OF THE PROPER
. Signatures	
	ent application, the office days of a connection of the owner signed the development application.  sent to this application:  Signature
arm	Klurden Bloon
Name	Name
ANTONY BROOM	PHILLIS BLOOM
Date	Date
78.11.06	28.11.06
The applicant, or the applicant's agent, mus	t sign the application.
The applicant, of the applicant 3 agont, mas	
Signature	

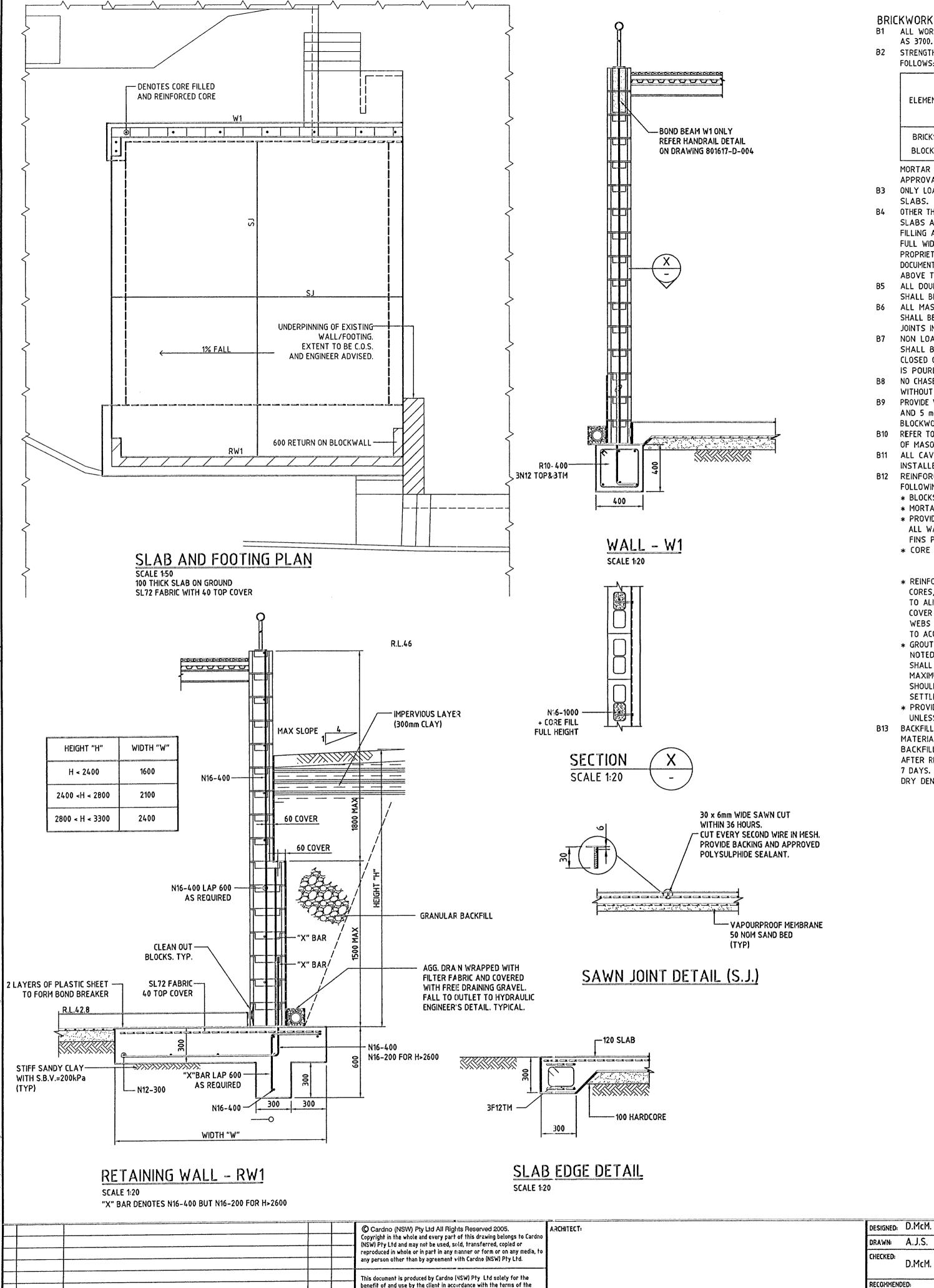
riease comp	lete the	e follo	owing:							
Numb	per of s	torey	s (including und	dergrou	nd flo	ors)		WI		
Gross	Gross floor area of building (m²)						7	r Mr		
• Gross	s site a	rea (ı	m²)					34	× M×	
<b>Residential</b> Please comp		100000000	only owing details on	resider	ntial s	tructures:				
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• Numb	per of p	re-ex	kisting dwellings	on site				ON	E	
Numb	oer of d	lwelli	ngs to be demo	lished				NI	L	
• Will t	he new	dwe	lling(s) be attac	hed to d	other	new	Ye	s [	a No D	
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	NAME AND ADDRESS OF THE OWNER, OF THE OWNER,					Misting	Y	2	L No I	
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# OWNERS AUTHORISATION AND APPOINTMENT OF PRINCIPAL CERTIFYING AUTHORITY

<i>X</i> ∕We	ANTONY & PHYLLIS BLOOM OF
Address:	ANTONY & PHYLLIS BLOOM OF
	NEWPORT
Telephone:	(h) 9997 4671 (w) (Mobile) 0438310137
Fax:	email: Bhoom. BUNGAN 2 BIGROND. COM
hereby author	rise, (other than the owner), DK BULLDING GERTIFIERSO,
(cross out if n	not applicable), lodge a Construction Certificate application with DK Building
Certifiers	Pty Ltd for the proposed works being:-
CONSTRU	VETION OF DECK AND RETAINING WALLS
at: 41 B0	INGAN HEAD ROAD NEWPORT
Council: Pi	TTWATER DANO: NO415/06
	amian O'Shannassy, Accredited Certifier No 6175 (Dept of Planning - NSW) of
	Sydney Road, Balgowlah NSW 2093, Ph: (02) 9400 2335, Fax: (02) 9400
	kbuilding.com.au as the Principal Certifying Authority.
	paration, mg radion, y.
Signed:	Koll Bloom
Data: 28.	

AU

NB: The original of this form must be returned together with the Construction Certificate application.



retainer. Cardno (NSW) Ptv Ltd does not and shall not assume anv

responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

20/10/2006 ISSUED FOR CONSTRUCTION

DATE

BRICKWORK AND BLOCKWORK

B1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.

B2 STRENGTHS OF MASONRY UNITS AND TYPE OF MORTAR SHALL BE AS FOLLOWS:

ELEMENT	MATERIAL	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (F'c)	MORTAR (CEMENT: LIME: SAND) (F'c)
BRICKS	CLAY	CLAY 20 MPa	
BLOCKS	CONC	15 MPa	1:0.25:3

APPROVAL OF THE SUPERINTENDENT. B3 ONLY LOAD BEARING MASONRY WALLS ARE SHOWN UNDER CONCRETE

SLABS. B4 OTHER THAN REINFORCED CONCRETE BLOCKWORK, MASONRY SUPPORTING SLABS AND BEAMS SHALL BE TROWELLED SMOOTH WITH MORTAR FILLING ALL VOIDS. TWO LAYERS OF MALTHOID SHALL BE PLACED FULL WIDTH ACROSS SUCH LOAD BEARING SURFACES EXCEPT WHERE PROPRIETARY BEARING STRIP IS NOTED OR ALTERNATIVE DETAIL IS DOCUMENTED. THE HEADS OF LOAD BEARING WALLS SHALL NOT EXTEND

ABOVE THE SOFFIT OF THE CONCRETE SLAB ABOVE. B5 ALL DOUBLE SKIN SOLID WALLS SUCH AS 230mm THICK BRICKWORK SHALL BE BONDED BY A HEADER COURSE EVERY 4th COURSE.

B6 ALL MASONRY SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL

JOINTS IN THE CONCRETE. B7 NON LOAD BEARING WALLS BUILT PRIOR TO POURING CONCRETE SHALL BE SEPARATED FROM CONCRETE ABOVE BY 16 mm THICK CLOSED CELL POLYSTYRENE STRIP. WHERE BUILT AFTER CONCRETE IS POURED LEAVE 12 mm CLEAR OF CONCRETE SOFFIT.

B8 NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE ENGINEER. B9 PROVIDE VERTICAL CONTROL JOINTS AT 10 m MAX. CENTRES GENERALLY,

AND 5 m MAX. FROM CORNERS FOR BRICKWORK AND UNREINFORCED BLOCKWORK.

B10 REFER TO CONCRETE NOTES FOR DE-PROPPING PRIOR TO CONSTRUCTION OF MASONRY WALLS ON SUSPENDED SLABS.

B11 ALL CAVITY CONSTRUCTION SHALL INCLUDE STAINLESS STEEL TIES INSTALLED IN ACCORDANCE WITH CLAUSE 3.8 AS 3700.

B12 REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING, UNLESS NOTED \* BLOCKS SHALL BE STRENGTH GRADE 15 CONFORMING TO AS 2733.

FINS PRIOR TO GROUTING.

\* MORTAR SHALL COMPRISE 1 CEMENT:0.25 LIME:3 SAND. \* PROVIDE CLEANOUT HOLES 100 mm SQUARE MINIMUM AT BASE OF ALL WALLS AND ROD CORE HOLES TO REMOVE PROTRUDING MORTAR

\* CORE FILLING GROUT SHALL BE :- F'c = 20 MPa MINIMUM CEMENT CONTENT = 300 kg/m, SLUMP =  $230 \pm 30$  mm.

\* REINFORCEMENT PROJECTING FROM FOUNDATION OR SLABS INTO CORES, SHALL BE SET ACCURATELY IN PLACE USING TEMPLATES TO ALIGN WITH THE CENTRE OF THE LENGTH OF CORES AND WITH COVER AS NOTED, WHERE HORIZONTAL BARS ARE INDICATED. THE WEBS OF THE BLOCKS BELOW THE BARS SHALL BE CUT DOWN TO ACCOMMODATE THE BARS.

\* GROUT ALL CORES IN REINFORCED BLOCKWORK UNLESS OTHERWISE NOTED. HEIGHT OF BLOCKWORK TO BE GROUTED ON ONE DAY SHALL BE 2400mm. GROUT SHALL BE PLACED IN LIFTS OF 1200mm MAXIMUM AND COMPACTED BY POKER VIBRATOR. A SHORT TIME SHOULD ELAPSE BETWEEN SUCCESSIVE LIFTS TO ALLOW PLASTIC SETTLEMENT TO OCCUR.

\* PROVIDE 50 mm COVER FROM THE OUTSIDE OF THE BLOCKWORK UNLESS NOTED.

B13 BACKFILL TO RETAINING WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN AT BASE OF WALL. DO NOT BACKFILL UNTIL 14 DAYS AFTER GROUTING, OR IF APPLICABLE, AFTER RESTRAINING SLAB OVER HAS BEEN POURED AND CURED FOR 7 DAYS. BACKFILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2 %.

**ASSUMED AHD** 

COORDINATE SYSTEM:

PROJECT DIRECTOR

APPROVED:

PROJECT MANAGER

**GENERAL** 

G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE

COURSE OF THE CONTRACT. G2 THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR STRUCTURAL ENGINEERING PURPOSES ONLY. IN ALL OTHER MATTERS, THE APPROVED ARCHITECTS' DRAWINGS SHALL TAKE PRECEDENCE. ALL DISCREPANCIES THAT COULD RESULT IN CHANGES TO THE STRUCTURAL DETAILS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. IF IN DOUBT - ASK.

G3 CONSTRUCTION FROM THESE DRAWINGS AND ASSOCIATED CONSULTANTS' DRAWINGS SHALL NOT COMMENCE UNTIL APPROVED BY THE LOCAL

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.

G5 ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES. G7 THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING

G8 UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL

DIMENSIONS ARE IN MILLIMETRES.

THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND LOCAL GOVERNMENT ORDINANCES FOR THE FOLLOWING LOADINGS:

FLOOR	USAGE	LIVE	LOAD KP	a SUPERIMPO DEADLOAD	
?			?		?

WIND	LOAD	S ARE	IN ACCO	RDANCE	WITH	AS	1170	AS I	FOLLOWS:
BAS	I C \	WIND	VELO	CITY	( V u	)			m/s
REG	0 N								
TERF	RAI	N CA	TEGOR	Υ.					

THE RELEVANT PROVISIONS OF AS 1170.4 HAVE BEEN APPLIED FOR A SITE FACTOR (S) OF ..... AND FOR AN EARTHQUAKE ACCELERATION COEFFICIENT (a) OF ......

FOUNDATIONS

F1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING INTENSITY OF ????????? ON ???????? THIS FOUNDATION MATERIAL SHALL BE UNIFORM AND BE APPROVED BY THE ENGINEER FOR THIS PRESSURE BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE. REFER TO GEOTECHNICAL INVESTIGATION REPORT No. . . . PREPARED

BY ..... AND DATED ..... RESIDENTIAL SLABS & FOOTINGS HAVE BEEN DESIGNED FOR A SITE CLASSIFICATION OF ..... FOR ..... CONSTRUCTION

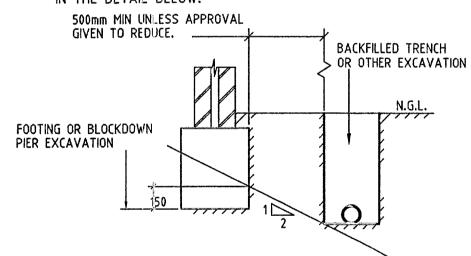
TO AS2870. DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVER WALLS) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED. BACKFILL SHALL BE COMPACTED TO 96% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%. (ENSURE FREE DRAINING BACKFILL AND DRAINAGE IS IN PLACE).

FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE DO NOT EXCEED A RISE OF . . . IN A RUN OF . . . FOR THE LINE

OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.

F5 FOOTING LEVELS, WHERE SHOWN ARE ESTIMATES ONLY AND WILL BE ESTABLISHED DURING SITE INSPECTION OF WORK IN PROGRESS.

F6 UNLESS OTHERWISE APPROVED BY THE ENGINEER / SUPERINTENDENT, THE LIMITS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS SET OUT IN THE DETAIL BELOW.



PRIOR TO ANY EXCAVATION NEAR EXISTING FOOTINGS. THE BUILDER SHALL DETERMINE THE DEPTH OF FOUNDING OF EXISTING FOOTINGS BY LOCAL INVESTIGATORY EXCAVATION.

GENERAL EXCAVATION SHALL NOT PROCEED BELOW A LEVEL 150mm ABOVE THE UNDERSIDE OF EXISTING FOOTINGS UNTIL INSTRUCTION IS OBTAINED FROM THE ENGINEER ON PROCEDURES & PRECAUTIONS TO BE TAKEN.

F7 SUBGRADE: UNLESS OTHERWISE SPECIFIED THE SUBGRADE BELOW BASECOURSES FOR SLABS SHALL BE APPROVED MATERIAL COMPACTED TO 98 % STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2 %.

F8 BASE COURSE: BASE COURSE SHALL BE FINE CRUSHED ROCK (DGB20) OR OTHER MATERIAL APPROVED BY THE ENGINEER SPREAD IN LAYERS NOT EXCEEDING 200mm DEPTH AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%.

ANTONY BLOOM

+1 BUNGAN HEAD ROAD

SLAB NOTES, PLAN AND DETAILS

NEWPORT, NSW

#### CONCRETE

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS 1379 & AS 3610 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 CONCRETE QUALITY ALL CEMENT TO BE TYPE SL, SHRINKAGE LIMITED CEMENT IN ACCORD-ANCE WITH AS3972, EXCEPT THAT THE MAXIMUM SHRINKAGE OF THE CEMENT IN THE MORTAR TEST SAMPLE IN ACCORDANCE WITH AS2350

SHALL BE LESS THAN 600 MICROSTRAIN.

ELEMENT	STRENGTH GRADE	SLUMP (mm)	MAXIMUM AGGREG. SIZE (mm)	MINIMUM CEMENT CONTENT (kg/cu.m)
?	?	?	?	?

PROJECT ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

(3(i) ALL CONCRETE IN SLABS AND BEAMS TO BE PROPORTIONED TO

LIMIT DRYING SHRINKAGE TO 650 MICROSTRAIN AT 56 DAYS. (ii) DETAILS OF THE PROPOSED MIX TO BE SUBMITTED & APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE.

(iii) SHRINKAGE TESTS SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY IN ACCORDANCE WITH AS 1012 PART 13. TESTS SHALL BE CONDUCTED ON THE FIRST BATCH OF CONCRETE USED IN SUSPENDED SLABS AND SUBSEQUENTLY AT THE RATE OF ONE TEST EVERY ADDITIONAL 100 CUBIC METRES OF CONCRETE SUPPLIED. THREE SPECIMENS SHALL BE TAKEN FOR EACH TEST AND THE SHRINKAGE SHALL BE THE AVERAGE OF THE THREE RESULTS.

THE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AS SHALL ANY ADDITIONAL TESTS REQUIRED IF THE CONCRETE FAILS TO MEET THE SPECIFIED SHRINKAGE LIMITS.

C4 NO ADMIXTURES OTHER THAN LOW RANGE WRA SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.

CLEAR CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE, COVER MAY NEED TO BE INCREASED FOR FIRE RATING.

EXPOSURE CLASS TO AS 3600	MINIMUM CONCRETE GRADE	CAST AGAINST GROUND	CAST IN FORMS AND EXPOSED	CAST IN FORMS AND NOT EXPOSED
A1 (INTERNAL)	25	40mm	••	20mm
A2 (EXTERNAL)	25	50mm	30mm	-
B1 (EXTERNAL)	32	60mm	40mm	-
B2 (EXTERNAL)	40	65mm	45mm	-
FOOTINGS	25	50mm	-	-

NOTE: WHERE CONCRETE IS POURED ON A VAPOURPROOF MEMBRANE 0.2 mm MINIMUM THICKNESS, THE COVER TO CONCRETE CAST

AGAINST GROUND MAY BE REDUCED BY 10 mm. CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES. NO FINISH WHICH DECREASES COVER IS ALLOWED WITHOUT

THE WRITTEN APPROVAL OF THE ENGINEER. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS. C8 FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC. REFER TO ARCHITECT'S

DETAILS, MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS. C9 NO HOLES, CHASES, BLOCKOUTS, DUCTS OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

C10 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

C11 ALL CONCRETE COLUMNS GREATER THAN 1.2 METRES IN HEIGHT SHALL BE POURED A MINIMUM OF 4 HOURS PRIOR TO SLAB OR BEAM OVER.

C12 THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

C13 CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURERS SPECIFICATION). POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.

CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO BRICKWORK OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL SEVEN DAYS AFTER PROPPING HAS BEEN REMOVED AND THE SLAB PRE-LOADED WITH THE BRICKS OR UNITS TO BE USED IN THE WALL.

C15 REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.

C16 CAST-IN FIXINGS, BOLTS ETC. SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE ENGINEER.

C17 CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE THIRD OF THE SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS. CONDUITS AND PIPES SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.

C18 SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS ETC. SHOWN ON THE DRAWINGS. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 12mm CLEAR OF SOFFITS OF STRUCTURE.

> FEO 7 FIFT, 2006

**DRAWING STATUS:** FOR CONSTRUCTION PROPOSED ADDITION OF DECK DRAWING NUMBER:

605038-D-003

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm A1 ON ORIGINAL

Cardno (NSW) Pty Ltd

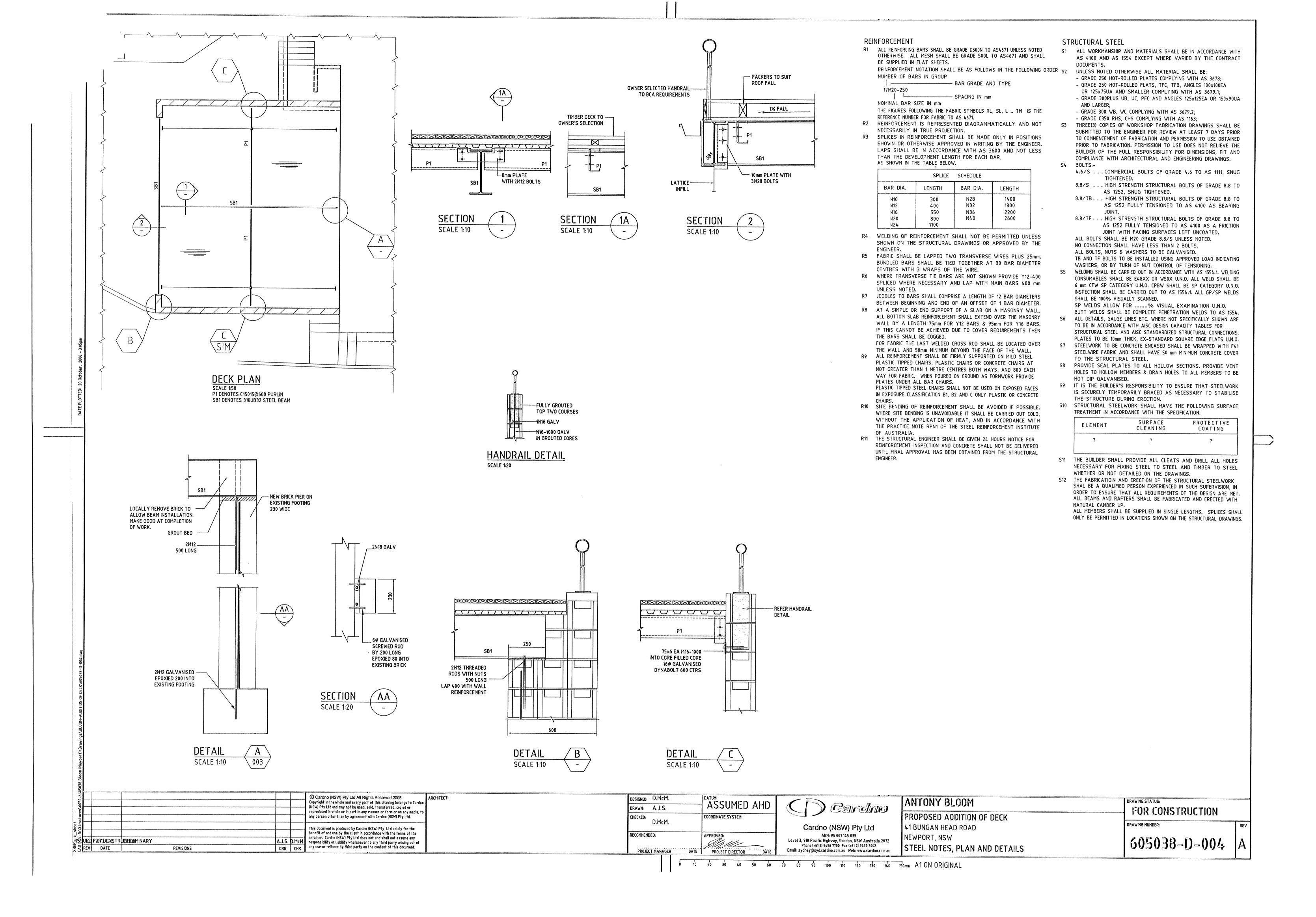
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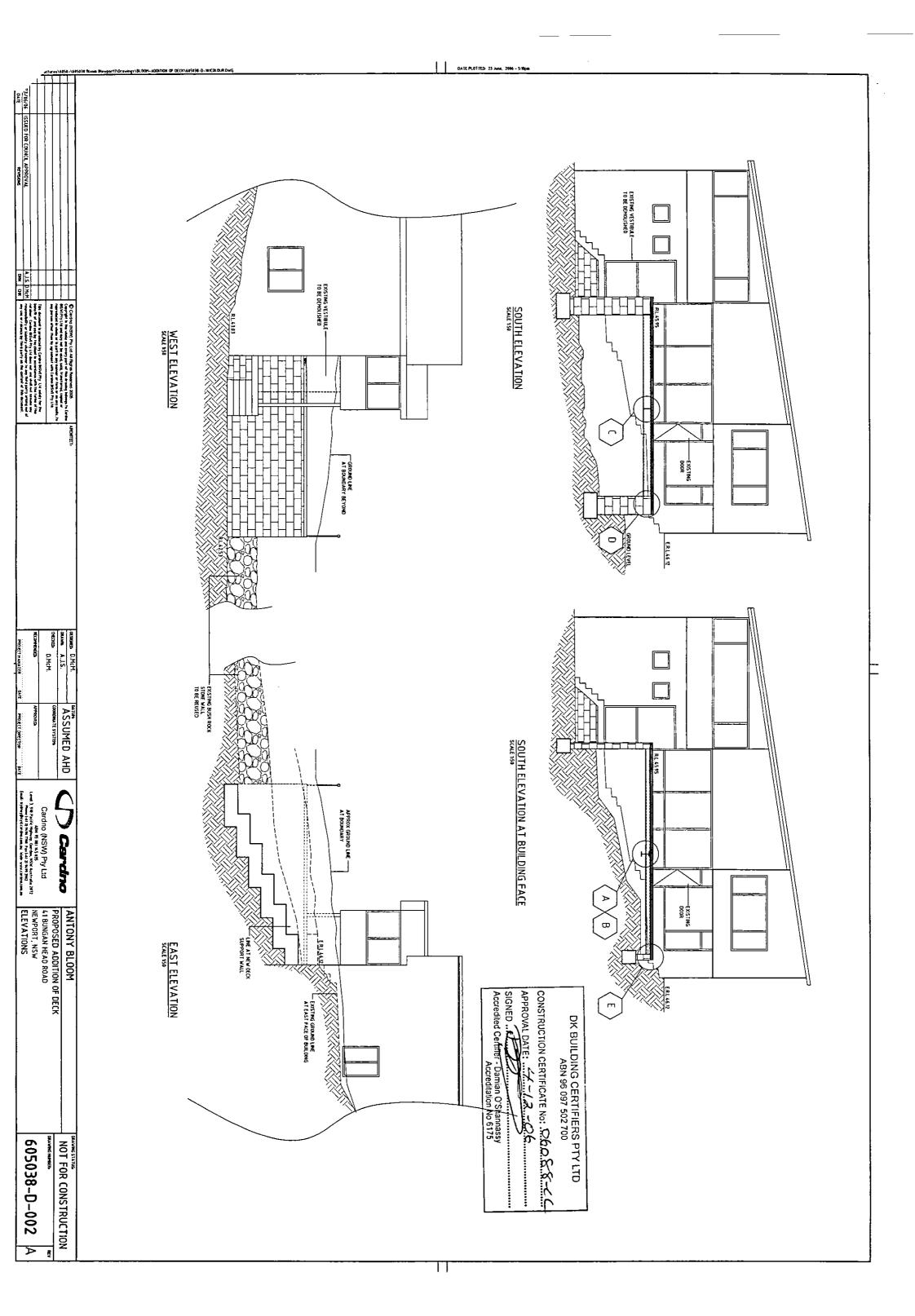
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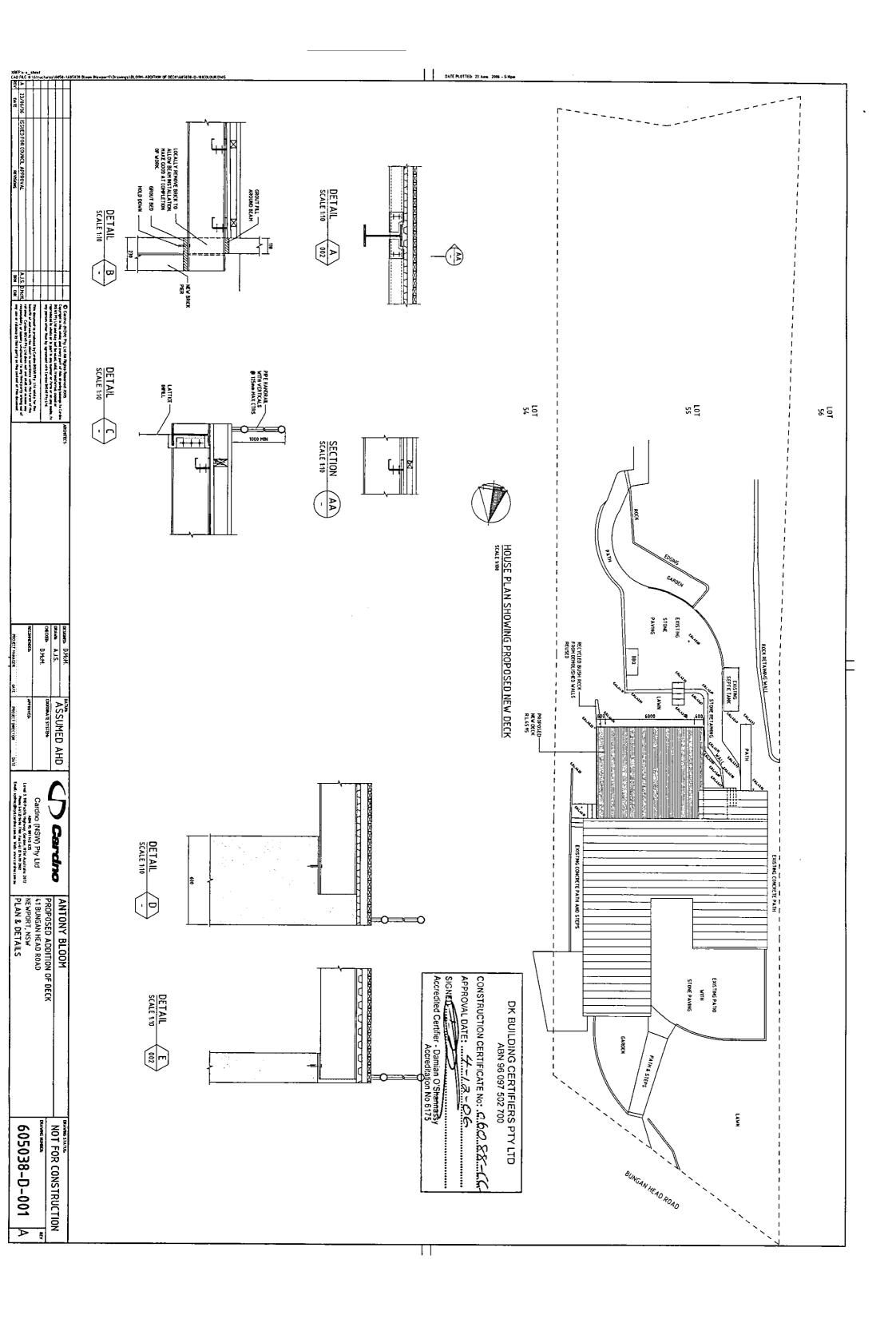
Phone (+61 2) 9496 7700 Fax (+61 2) 9499 3902

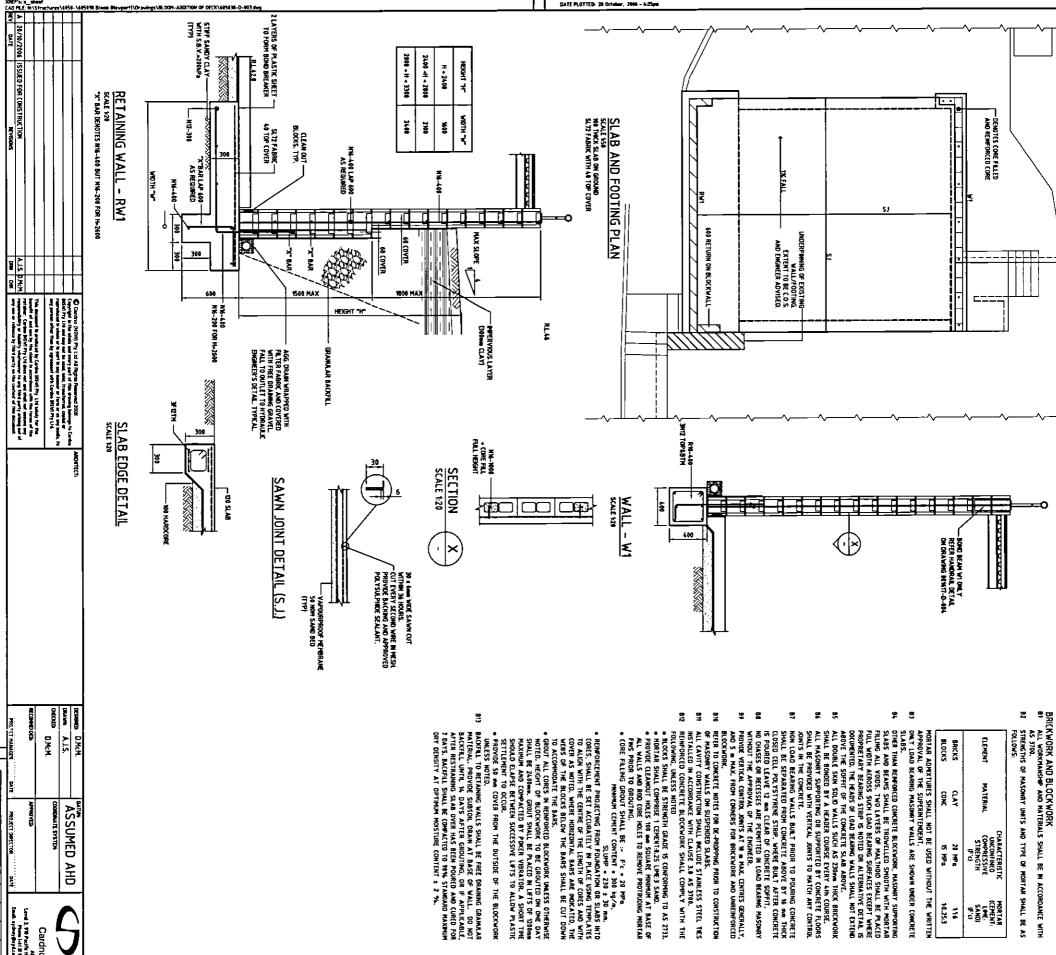
Email: sydney@syd.cardno.com.au Web: www.cardno.com.au

Cardno









BRICKWORK AND BLOCKWORK

81 ALL WORKMANSHIP AND MATERIALS SHALL BE M ACCORDANCE WITH

83 7700.

82 STREMETHS OF MASONRY UNITS AND TYPE OF MORTAR SHALL BE AS
FOLLOWS:

CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (F'c)

MORTAR (CEMENT: LIME: SAND) (F'd)

S

UNLESS NOTED OTHERW
DIMENSIONS ARE IN MILLI
THE STRUCTURAL COMPO
BEEN DESIGNED IN ACCO VISE ALL LEVELS ARE IN METRES AND ALL IMPETRES.

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ONENTS DETANED ON THESE DRAWINGS HAVE ORDANCE WITH THE RELEVANT AUSTRALIAN GOVERNMENT ORDINANCES FOR THE FOLLOWING

FLOOR USAGE LIVE LOAD KPG

BASIC WIND VELOCITY (Vu).....
REGION
TERRAIM CATEGORY IND LOADS ARE ACCORDANCE WITH AS 1170 AS FOLLOWS

ESGNED FOR AN ALLOWABLE BEARNG MTENSITY
T77777 THIS FOUNDATION MATERAL SHALL BE
ROVED BY THE ENGMERER FOR THIS PRESSURE
SRAME, REINFORCEMENT OR CONCRETE.
SRAME, REINFORCEMENT OR CONCRETE.
ALL INVESTIGATION REPORT No. . . . . PREPARED
D DATFO

\$

PY....AND DE RESIDENTIAL SLABS & FO CLASSIFICATION OF ...
TO ASSATO DATED ...... FOR ..... CONSTRUCTION

DO NOT BACKFELL RETAINING WALLS OTHER THAN CANTLEVER WALLS OF THAN CANTLEVER WALLS OTHER THAN CANTLEVER WALLS UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED. BACKFILL SHALL BE COMPACTED TO 96% STANDARD MAXIMUM DRY DENSITY AT OPTHIMM MOISTURE CONTENT 2.2%. IENSURE FREE DRAINING BACKFELL AND DRAINAGES IN PLACE. BY PLACE. FROTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS WALLS AND TED DHERWISE.

DO NOT EXCEED A RISE OF ... IN A RUN OF ... FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.

ESTABLISHED DURING SITE INSPECTION OF WORK IM PROGRESS.

WAESS OTHERWISE APPROVED BY THE ENGINEER / SUPERMITMONT,

THE LIMITS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS SET DUT

RATHE DETAIL BELOW.

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PIER EXCAVATION GIVEN TO REDUCE. \_\_\_\_\_ ~Ø/ DACKFILLED TRENCH
OR OTHER EXCAVATION

7

PRIOR TO ANY EXCAVATION NEAR EXISTING FOOTINGS, THE BUNDER SHALL OFTERNING THE DEPTH OF FOUNDING OF EXISTING FOOTINGS BY LOCAL INVESTIGATION FOR EXCAVATION.

GÉNERAL EXCAVATION SHALL HOT PROCEED BELOW A LEVEL 150mm ABOVE THE UNDERSIDE OF EXISTING FOOTINGS UNTIL MISTRICTION IS OBTAINED FROM THE ENGLER ON PROCEDURES & PRECAUTIONS TO BE TAKEN.

SUBGRADE: UNILESS OTHERWISE SPECIFED THE SUBGRADE BELOW BASECOURSES FOR SLASS SHALL BE APPROVED MATERIAL COMPACTED TO 98 % STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT 1 2 %.

BASE COURSE: BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE: BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE: BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE BASE COURSE SHALL BE FINE CRUISHED ROCK (DGB20) BASE COURSE SHALL APPROVED BY THE ROUMER SPREAD IN LATERS HOT EXCEEDING ZOOMS OFFEN AND COMPACTED TO 91% STANDARD HAXPHUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT 1 2%.

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GENERAL OF THESE

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BE USED WITHOUT THE WRITTEN

20 HPa

116 10.253

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STANLAND SHALL BE READ IN COMMITTON WITH ALL ARCHTECTURAL AND DYNER CONSULTANTS' DRAWNGS AND SECRETATIONS AND WITH SUCH OTHER WRITTEN MISTRUCTIONS AS MAY BE ISSUED DARWG THE COMESE OF THE CONTRACT.

THE MECHATION CONTRACT.

THE MECHATION CONTRACT ON THESE DRAWNGS IS FOR STRUCTURAL GOT THE WECHATION CONTRACT.

THAT COALD RESULT IN CHANGES TO THE STRUCTURAL DETAILS SHALL BE REFERRED TO THE EXCRETE PROOR TO PROCEEDING WITH CONSTRUCTION OF THE MOUNT - ASK.

CONSTRUCTION FROM THESE DRAWNGS AND ASSOCIATED CONSULTANTS IN DOMESTING AND ASSOCIATED CONSULTANTS OF THE MOUNT - ASK.

GO CONSTRUCTION FROM THESE DRAWNGS AND ASSOCIATED CONSULTANTS IN DOMESTING AND ASSOCIATED CONSULTANTS OF THE STRUCTURE SHALL BE MICROBIANCE WITH THE SYLAMS AND DOMENACES OF THE RELEVANT BUILDING AUTHORITIES.

GO ALL INDICASIONS SHOWN SHALL BY FREED BY THE BUILDER ON SITE, EXCRET WHERE VARED BY THE STRUCTURE SHALL BE CHANTAINED IN A STABLE CONDITION AND NO PART SHALL BY EMPLOYED BY THE BUILDER ON KEEP THE BUILDER SHALL BY BROUDER TO KEEP THE WORKS AND EXCLAVATIONS STABLE AT ALL THES.

THE WORKS AND EXCLAVATIONS STABLE AT ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FOR ALL ENGINEERING THE BUILDER SHALL GIVE AS HOURS NOTICE FO

CONCRETE

(1 ALL WORKMANSHP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3400, AS 1379 & AS 3600 CURRENT EDITIONS WITH AMERDHENTS.

EXECT WHERE VARIED BY THE CONTRACT DOCUMENTS.

(2 CONCRETE QUALITY

ALL CEMENT TO BE TYPE SL, SHRIMKAGE LIMITED CEMENT IN ACCORDANCE WITH AS3972, EXCEPT THAT THE MAXIMUM SHRIMKAGE OF THE CEMENT IN THE MORTAR TEST SLAMPLE IN ACCORDANCE WITH AS2350 SHALL BE LESS THAN 400 MICROSTRAMN. ELEMENT STRENGTH GRADE

E ST I

HAXIMUM AGGREG. SIZE Immi

ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE 1979.

PROJECT ASSESSHENT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

GIB ALL CONCRETE IN SLABS AND BEAMS TO BE PROPORTIONED TO LIMIT DRYING SHRINKAGE TO 650 MICROSTRAIN AT 56 DAYS.

IDDETAILS OF THE PROPOSED MIX TO BE SUBHTITED & APPROVAL DOBTAINED PRORD TO DOURNER ANY COUNTERLE.

IDDETAILS THE PROPOSED MIX TO BE SUBHTITED & APPROVAL DOBTAINED PRORD TO DOURNER ANY COUNTERLE.

IDDETAILS SHALL BE CONDITION OF BY AN APPROVED MATA REGISTERD LABORATORY IN ACCORDANCE WITH AS WIZE PART 13.

IESTS SHALL BE COMDITION OF FRET BATCH OF CONCRETE USED IN SUSPENDED SLABS AND SUBSCOUNTLY AT THE RATE OF OWN TEST EVERY ADDITIONAL OF THE THEE RESULTS.

ITHE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AS SHALL BE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AS SHALL ANY ADDITIONAL TESTS REQUIRED MY THE CONTRACTOR AS SHALL ANY ADDITIONAL TESTS REQUIRED MY RATING.

C. NO ADMIXTURES OTHER THAN LOW RANGE WAS SHALL BE USED IN CONCRETE CONCRETO SHALL BE ASTING.

C. LICAR COUNTRESS SHOWN OTHERWISE. COVER MAY NEED TO BE INFORMED AS THAN OF ASTING.

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NCREASED FOR FIRE RATING. EXPOSURE CLASS TO AS 3440 MINIMUM CONCRETE GRADE CAST N FORMS AND EXPOSED FORMS AND NOT EXPOSED

A1 UNTERNALI
A2 (EXTERNALI)
B1 (EXTERNALI)
B2 (EXTERNALI)
FOOTINGS おかれなな 7575 2 6 A . 20 mag

3 50

2 3 3

HOTE: WHERE COMCRETE IS POURED ON A VAPOURPROOF MEMBRANE B.2 man MINIMAM THEXENESS, THE COVER TO COMCRETE CAST ACAINST GROUND MAY BE REDUCED BY TO man.

(4) CONCRETE SIZES SHOWN DO NOT MICLUDE THICKNESSES OF APPLIED FINISHES, NO FMSH WINCH DECREASES COVER IS ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE WINCHEST.

(5) CONCRETE SIZES SHOWN DO NOT MICLUDE SLAD THICKNESSES OF APPLIED FINISHES, DEP GROUPES, RECLETS, ETC. REFER TO ARCHITECT'S DETAILS, MARTIAN COVER TO REMPORCEMENT AT THESE DETAILS.

(6) CHAPERS, DAPP GROUPES, RECLETS, ETC. REFER TO ARCHITECT'S DETAILS, CHASES, BLOCKOUTS, DUCTS OR EMBEDMENT OF PIPES DETAILS.

(7) HO HOLES, CHASES, BLOCKOUTS, DUCTS OR EMBEDMENT OF PIPES OF THE RUBBEER.

(8) CONSTRUCTION JOHNES WHERE NOT SHOWN SHALL BE LOCATED TO THE PROPOVAL OF THE EMBREER.

(9) CONSTRUCTION JOHNES WHERE NOT SHOWN SHALL BE LOCATED TO THE PROPOVAL OF THE EMBREER.

(11) ALL COMMERTE COUNTRY SHORE TO SLAD OR BEAM OVER.

(12) THE FINISHED CONCRETE WILLOWS SHARDS, OMERITEN AND FREE POARDS A HOWMAN OF A HOMES PRORE TO SLAD OR BEAM OVER.

(13) THE FINISHED CONCRETS ALL COMMERTE MICLUMOS SLADS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATED TO ACHIEVE A DEUSE HONOCORTIS, ALL COMPRETE MICLUMOS SLADS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATIONS.

(14) CHAINES OF MICH SHAD OUT, APPROVED SPRAYED ON CUBING COMPOUNTS THAT COMPLY WITH A STAPP MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED REFER ANALY ACCURATE SPRAYED ON CUBING COMPOUNTS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED REFER ANALY ACCURATE SPRAYED ON CONCRETE WILL SEVEN AND SELECTED TO PLACE WHERE SWEEDED ON WORD ONESTIESSESSAN THE STRUCTURE DUE TO MASTRUCTION SUPPORT PROPPING IS THE REPOYDED WITHOUT THE BRICKS OR UNITS TO BE LUSTED WITH THE BRICKS OR UNITS TO BE LUSTED WITH THE BRICKS OR UNITS TO BE LUSTED WITHOUT THE BRICKS OR UNITS TO BE LUSTED WITHOUT THE BRICKS OR UNITS TO BE LUSTED WITHOUT THE SINALL NOT BE ATTEMPTED WITHOUT THE

REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.

CAST-IN FIXMES, BOLT'S ETC. SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE ENGINEER.

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IDUTS, PRES ETC. SHALL DMY BE LOCATED IN THE MIDDLE THRO
THE SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS.
THE SLAB DEPTS SHALL NOT BE PLACED WITHIN THE COVER
REINFORCEMENT.

SLABS AND BEAMS SMALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS ETC. SHOWN ON THE DRAWNOS. ALL OTHER BULLONG ELEMENTS SHALL BE KEPT 12mm CLEAR OF SOFFITS OF STRUCTURE.

FOR CONSTRUCTION

ASSUMED AHD

Cardno (NSW) Pty Ltd

Cardno

ROPOSED ADDITION OF DECK

NTONY BLOOM

1 BUNGAN HEAD ROAD

WPORT NSW

AB NOTES, PLAN AND DETAILS

PROJECT DIRECTOR

605038-D-003

 $\triangleright$ 

