

26 June 2007

Customer Service Department Pittwater Council PO Box 882 Mona Vale NSW 1660

Dear Sir/Madam.

237 WHALE BEACH ROAD, WHALE BEACH NSW DEVELOPMENT APPLICATION NO. DA 535/05 CONSTRUCTION CERTIFICATE NO. 27072

City Plan Services have issued a Construction Certificate under Part 4A of the Environmental Planning and Assessment Act 1979 for the above premises.

Please find enclosed the following documentation:

- Construction Certificate No. CC 27072
- · Copy of application for Construction Certificate.
- Documentation used to determine the application for the Construction Certificate as detailed in Schedule 1 of the certificate.
- Notice of Appointment of Principal Certifying Authority.
- Cheque for Council's registration fee.

Our client has been advised of the necessity to submit to Council the notice of commencement of building works 48 hours prior to the commencement of works.

Should you need to discuss any issues, please do not hesitate to contact the Project Building Surveyor Michael Conroy on 8270-3500.

Yours Sincerely,

Brendan Bennett

Director

Encl

PLANNING BULDING HERITAGE LANDSCAPE URBAN DESIGN

OPLAN SERVICES



237 Whale Beach Road, Whale Beach NSW Construction Certificate No. 27072



CONSTRUCTION CERTIFICATE NO. 27072

Issued under Section 81A(5) and Part 4A Sections 109C, of the Environmental Planning and Assessment Act 1979

APPLICANT

Name of person having benefit of the development consent:

Address:

Contact Details:

OWNER Name:

Address:

Contact Details:

DEVELOPMENT CONSENT

Consent Authority/Local Government Area:

Development Consent No: Date of Development Consent:

PROPOSAL

Address of land on which the work is to be carried out:

Building Classification: Type of Construction:

Scope of building works covered by this Notice:

Value of Construction Certificate (Incl GST):

Plans and Specifications approved:

Fire Safety Schedule: Critical stage inspections;

Exclusions:

Conditions (Clause 187 or 188 of the Environmental

Planning & Assessment Regulation 2000):

PROJECT BUILDING SURVEYOR

CERTIFYING AUTHORITY

Ross Grant

10 Loombah Road, Dover Heights 2030

Phone: 9324 4211

Fax: 9324 4301

Ross Grant

10 Loombah Road, Dover Heights 2030 Phone: 9324 4211 Fax: 9324 4301

Pittwater Council

DA 535/05 11.08.06

237 Whale Beach Road, Whale Beach NSW

Class 1a N/A

Demolition of existing dwelling and

construction of new dwelling and swimming

pool.

\$3,000,000.00 Schedule 1

N/A

See attached Notice

Nil

Nil

Please contact Michael Conroy

for any inquiries

Brendan Bennett for and on behalf of

City Plan Services Pty Ltd

BPB 0027 ACCREDITATION NUMBER

That I, Brendan Bennett, as the certifying authority, certify that the work if completed in accordance with the plans and specifications identified in Schedule 1 (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation 2000 as referred to in section 81A(5) of the Environmental Planning and Assessment Act 1979.

DATED THIS

26th

day

June

2007

Brendan Bennett

Director

NB: Prior to the commencement of work SB1A(2)(b)(i) and (ii) and (b2)(i) and (iii) and (c) of the Environment Planning and Assessment Act 1979 must be satisfied.



SCHEDULE 1 APPROVED PLANS AND SPECIFICATIONS

1. Endorsed Architectural plans prepared by Guy de Compiegne Architect

Plan Title	Drawing No	Revision	Date
Site Plan	CC01		May 2007
Floor Plans	CC02		May 2007
Sections & Elevations	CC03	•	May 2007

Endorsed Structural plans prepared by James Taylor & Associates

Plan Title	Drawing No	Revision	Date
Construction Notes	S00	С	29.05.07
Pool Level Floor Plan & Details	S01	A	01.05.07
R.C. Details	S02	Α	01.05.07
R.C. Details	S03	A	01.05.07
Lower Ground Floor Plan	S04	В	29.05.07
R.C. Details	S05	Α	01.05.07
Ground Floor Plan	S06	В	29.05.07
R.C. Details	\$07	Α	01.05.07
Level 1 Floor Plan Reinforcement &	S08	B	29.05.07
Details			
R.C. Details	S09	A	01.05.07
Roof Level Plan Reinforcement &	S10	В	29.05.07
Details			
Roof Framing Plan	S11	С	29.05.07
Excavation Plan and Civil Works	C01	С	29.05.07

Endorsed Stormwater plans prepared by A K Y Engineering

Plan Title	Drawing No	Revision	Date
Stormwater Drainage Plan Long Section Lines A & B	C-01	В	25.05.07
Stormwater Drainage Plan Long Section Line C, Drainage Details and Drawing Notes	C-02	В	25.05.07

Endorsed Hydraulic plans prepared by ITM Design

Plan Title	Drawing No	Revision	Date
Cover Sheet & Legend	H-00	С	04.06.06
Pool Level Hydraulic Services	H-01	С	04.06.06
Lower Ground Hydraulic Services	H-02	С	04.06.06
Ground Floor Hydraulic Services	H-03	С	04.06.06
First Floor & Roof Hydraulic Services	H-04	<u>C</u>	04.06.06
Sedimentation Control and	H-05	C	04.06.06
Rainwater_Tanks			
Specification	H-06	С	04.06.06



Endorsed Landscape plan prepared by Tropic of Sydney

Plan Title	Drawing No	Revision	Date
Landscape Plan	021603	L	28.05.07

2. Other documents relied upon

Title	Prepared By	Reference	Date
Construction Certificate Application	Ross Grant	·	21.05.07
Correspondence Re: Deferred Commencement Condition 1	Pittwater Council	DA N0535/05	19.06.07
Certificate of Insurance	Master Builders Insurance Services		21.05.07
Certification of Structural Documentation	James Taylor & Associates	4095:JT:rp	30.05.07
Levy Receipt	Long Service Payments Corporation	51417	31.05.07
Basix Certificate	ABSA	20069- 21480609	01.06.07
Design Certification – Landscaping	Tropic of Sydney P/L		17.05.07
Geotechnical Indemnity Policy Certificate	James Taylor & Associates	-	17.05.07
Design Certificate – Stormwater, sewer, water & gas services	ITM Design P/L		04.06.07
Report on Geotechnical Investigation	Douglas Partners	37583A	April 2005
Sydney Water Approved Stormwater Plans	AKY Civil Engineering	Drawing Nos. C-01 & C02	25.05.07
Sydney Water Approved Site Plan	Guy de Compiegne Architect	Dwg No. 00-03	April 2007



NOTICE TO APPLICANT OF CRITICAL STAGE INSPECTIONS

Made under Part 4 of the Environmental Planning and Assessment Act 1979 Sections 81A(2)(b1)(ii)

PROPOSAL

Address of land on which the work is to be carried out:

237 Whale Beach Road, Whale Beach, NSW

Description of building works covered by this Notice:

Demolition of existing dwelling and construction of new dwelling and

swimming pool.

APPLICANT

Name of person having benefit of the development consent:

Address:

Contact Details:

Ross Grant

10 Loombah Road, Dover Heights 2030

Phone: 9324 4211

Fax: 9324 4301

Ph: 8270 3500

RELEVANT CONSENTS

Development Consent No: Date of Development Consent: Construction Certificate No:

Date of Construction Certificate:

DA 535/05

11.08.06 CC 27072 26.06.07

INSPECTION TELEPHONE NUMBER

Please telephone the following number to book a critical stage inspection:

A minimum period of 48 hours is to be provided

CERTIFYING AUTHORITY

Brendan Bennett for and on behalf of

City Plan Services Pty Ltd

ACCREDITATION NUMBER

BPB 0027

MANDATORY CRITICAL STAGE INSPECTIONS

That I, Brendan Bennett, of City Plan Services located at Level 1, 364 Kent Street, Sydney acting as the principal citifying authority hereby give notice in accordance with Section 81A(2)(b1)(ii) of the Environmental Planning and Assessment Act 1979 to the person having the benefit of the development consent that the mandatory critical stage inspections identified in Schedule 1 & Schedule 2 are to be carried out in respect of the building work.

The applicant, being the person having benefit of the development consent is required under Section 81A(2)(b2)(lii) of the Environmental Planning and Assessment Act 1979 to notify the principal contractor (if not an owner-builder) of the applicable mandatory critical stage inspections specified under this notice.

To allow a principal certifying authority or another certifying authority time to carry out mandatory critical stage inspections, the principal contractor for the building site, or the owner builder, must notify the principal certifying authority at least 48 hours before building work is commenced at the site if a mandatory critical stage inspection is required before the commencement of the work in accordance with Clause 163 of the Environmental Planning & Assessment Regulation 2000.

Failure to request a mandatory critical stage inspections will prohibit the principal certifying authority under with Section 109E(3)(d) of the Environmental Planning and Assessment Act 1979 to issue an occupation certificate.

BATED/THIS

26th

day

June

2007

Brendan Bennett

Director



SCHEDULE 1 MANDATORY CRITICAL STAGE INSPECTIONS

NO.	CRITICAL STAGE INSPECTION	INSPECTOR
1.	At commencement of building work	Certifying
		Authority
2.	After Excavation for, and prior to the placement of any footings	Certifying
		Authority
3.	Prior to pouring any in-situ reinforced concrete building element	Certifying
		Authority
4.	Prior to covering of the framework for any floor, wall, roof or other building	Certifying
	element	Authority
5.	Prior to covering waterproofing in any wet areas	Certifying
		Authority
6.	Prior to covering any stormwater drainage connections	Certifying
_		Authority
7.	After the building work has been completed & prior to any occupation certificate	Principal
	being issued in relation to the building	Certifying
_		Authority

SCHEDULE 2 OTHER MANDATORY INSPECTION SPECIFIED BY THE PRINCIPAL CERTIFYING AUTHORITY

NO. OTHER CRITICAL STAGE INSPECTIONS	INSPECTOR
None have been specified in this instance	





BY	' :		
_		 	

CONSTRUCTION CERTIFICATE APPLICATION

Made under the Environmental Planning and Assessment Act 1979 Sections 814(2) 109C(1)(b)

Sections of A(2), 1000(1)(5)	
IDENTIFICATION OF BUILDING	Address 237 whale beach road
	Lot, DP/MPS etc
	Suburb or town Post Code Post Code
DESCRIPTION OF DEVELOPMENT Detailed Description:	neu residence
APPLICANT	Name Lowe grant Company
	Address to Loon BAH ROAU
	Suburb or town Dru en height Post Code 2030
	Phone B/H 0293244211 Fax No 02 93244301
	MobileEmail
As the applicant, I/we hereby submit this Co Assessment Act 1979, with City Plan Service	onstruction Certificate Application under the Environmental Planning & ees Pty Ltd.
Signature of applicant:	SignDate
CONSENT TO ALL OWNER(S)	
	Name ROSS GRANT Company
	Address 10 Lourus AH ROAD
	Suburb or town DOVER HEIGHTS Post Code 2030
	Phone B/M 029314411 Fax No 029314430]
	MobileEmail_rgrantegrantsamuel.com.
As the owner of the above property: 1. I/we consent to this application; and 2. I/we appoint Brendan Bennett of City Pla work identified in this application.	n Services Pty Ltd as the Principal Certifying Authority for the building

Signature of Owner

_Date__2<u>/</u>



VALUE OF WORK	\$ 0 .0 000
Estimated Cost of work:	* 3.00.00
GST:	\$
For developments over \$5 million, a Quantity Sulodgement of the application.	rveyors Certificate verifying the cost must be submitted on
DEVELOPMENT CONSENT	•
Development Consent No	No. DA No 535/05
Date of Determination	Date 11.08.206
BUILDING CODE OF AUSTRALIA BUILDING CLASSIFICATION	-
Nominated on the Development Consent	Class
RESIDENTIAL BUILDING WORK Relevant only to residential building work	Owner-builder Permit No

REQUIRED ATTACHMENTS

- Note 1 details the information that must be submitted with an application for a construction certificate for proposed building works

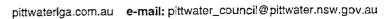
 Note 2 details the additional information that may be submitted with an application for a construction certificate for proposed residential building work.



Schedule 1 information to be Collected for ABS Particulars of the proposal

	FS	\bar{c}	PΙ	P7	Πl	NC
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DESCRIPTION	What is the area of the	and (m²)	.0.1	
			<u> 11.84</u>	
	Gross floor area of exist What are the current us building(s)/land?	ting building (m²) es of all or parts of th	1184 un'der	ital
	(If vacant state vacant)			
	Location	Use		
	Does the site contain a What is the gross floor a new building (m²) What are the proposed	area of the proposed		
	Location		Use	
	Number of pre-existing	dwellings		
	Number of dwellings to	be demolished		
	How many dwellings are	e proposed?	<u> </u>	
	How many storeys will tof?	he building consist	_4	<u> </u>
MATERIALS TO BE USED	Walls	Code	Roof	Code
	Brick veneer	12	Aluminium	70
	Full brick	(11)	Concrete	20
	Single brick	11	Concrete tile	10
	Concrete block	(11)	Fibrous cement	30
	Concrete/	20		
	masonary Concrete	20	fibreglass Masonry/terracott a shingle tiles	80 <u></u>
	Steel	60	State	20
	Fibrous cement	30	Steel	60
	Hardiplank	30	Terracotta tile	10
	Timber/weatherboard	40	Other	80
	Cladding aluminium		Unknown	90
	Curtain glass	70 <u> </u>	CHRIOWII	
	Other	*	•	
	Unknown	90	•	
	Floor	Code	Frame	Code
	Concrete	20	Timber	40
	Timber	10	Steel	60
	Other	80	Other	80
	Unknown	90	Unknown	90





Anna Williams, Principal Officer - Development 8am to 5.30pm Mon - Thurs, 8am to 5pm Fri Phone 9970 1111

DA No N0535/05

In all correspondence please quote this number

19 June 2007

Guy De Compiegne 79 Surrey St DARLINGHURST 2010

Dear Sir/Madam,

Re: Deferred Commencement Conditions – Development Application N0535/05, 237 Whale Beach Road, Whale Beach.

I refer to the deferred commencement condition 1 contained within the aforementioned consent, and your submission of information on 10/11/06.

Please be advised that pursuant to Regulation 95 (5) of the Environmental Planning and Assessment Regulation 2000, Council considers the details provided in accordance with deferred commencement Conditions 1 contained in Part 1 of the conditions of Development Consent are satisfactory. The following documentation therefore forms part of the consent documentation:

 Drawing No.C-01, C-02 (sheet 1 & 2 and 2 of 2) Project number 03191, Prepared by AKH Civil Engineering dated 29/9/06

In this regard, the Consent becomes operative from the date of this letter subject to the conditions listed in Part 2 of the Consent.

Yours faithfully

Anna Williams

SENIOR PLANNER

amondiane

Master
Builders
Insurance Services

21/05/2007

Windrim Building Contractors Pty Ltd PO Box 1111 NEWPORT BEACH NSW 2106 A Division of Queensland Master Builders Association Industrial Organisation of Employers ABN 96 641 989 386 AFS Licence 246834 18 Central Park Avenue, Ashmore. Queensland 4214 Phone: 1300 13 13 24 FAX: 1300 13 13 28

Certificate of Insurance RESIDENTIAL BUILDING WORK BY CONTRACTORS

A contract of insurance complying with sections 92 and 96 and 96A of the Home Building Act 1989 has been issued by Calliden Limited (ABN 43 110 186 224) (AFSL 284889)

In respect of:

New Single Dwelling

At:

237 Whale Beach Road WHALE BEACH NSW 2107

Carried out by:

Windrim Building Contractors Pty Ltd

Licence Number:

143186C

ABN:

87 000 370 650

For:

Mr Ross Grant

In the amount of:

\$4,500,000.00

Subject to the Act and the *Home Building Regulation 2004* and the conditions of the insurance contract, cover will be provided to:

a beneficiary described in the contract and successors in title to the beneficiary,

OR

 the immediate successor in title to the contractor or developer who did the work and subsequent successors in title.

Authorisation: In Witness Whereof, the Insurer issuing this Policy has caused this Policy to be signed by Authorised Signatory of the Insurer's Agent.

Issued on the 21st day of May, 2007.

Master Builders Insurance Services (ABN 96 641 989 386)(AFS Licence 246834)

For and on behalf of the Calliden Ltd (ABN 43 110 186 224) (AFS Licence 284889)

as their authorised agent.

NOTICE: To download a copy of your insurance policy wording visit www.policywording.com.au.

granting at 158

4 Carried Street, Morrow, 208, 705 W.

Telephone: I(C) 4:94 (486)

Flor: JUD. 846/12472

Dinail Stasser String comput

Ref:4095:JTtrp

30 May 2007

City Plan Services Level 1, 364 Kent Street Sydney NSW 2000

Dear Sir

CERTIFICATION OF STRUCTURAL DOCUMENTATION FOR PROPOSED BEACH HOUSE AT 237 WHALE BEACH ROAD, WHALE BEACH

We confirm that the structural members and elements shown on our Drawings dated numbered 4095 C01C, S00C, S01B, S02B, S03B, S04B, S05B, S06B, S07B, S08B, S09B, S10B, S11B, S12 B dated 29/05/07 have been designed with reference to the Architectural Drawings prepared by Guy de Compiegne , Quadrant Design Pty Ltd. Architects, numbered 0415 00-01, 02, 03, 04, 05, 06, 01-01, 05, 06, 02-01, 02, 05, 06, 0301, 02, 03, 05, 06, 04-01, 02, 03 dated April 2007 and 01-02, 04-05, 06, 05-01, 06-01, 02, 03, 04 dated October 2006 and were prepared:

- a) under the supervision of a professional structural engineer certified under NPER; and
- b) in accordance with the relevant structural requirements of the Building Code of Australia, principally:
 - BCA Spec C1.1 FRL

- AS3600	Concrete Structures
- AS3700	Masonry Structures

- AS1170 Minimum Design Loads on Structures

Part 0 General Principles

Part 1 Structural Design Actions

Permanent. Imposed and other actions

Part 2 Wind Loads

Part 4 Earthquake Loads

- AS4100 Steel Structures

- AS1684 National Timber Framing Code

Our office holds the following insurance:-

Professional Indemnity QBE

Allianz Australia Workers' Compensation

Policy No. AO7994403PID Policy No. MW2 2016941 Should you require any further information please do not hesitate to contact the writer.

Yours faithfully

JAMES TAYLOR & ASSOCIATES

JAMES TAYLOR & ASSOCIATES CP Eng MIE Aust NPER 23907 DIRECTOR

LONG SERVICE BUILDING & CONSTRUCTION

31 May 2007

ROSS ALAN GRANT GPO BOX 4301 SYDNEY NSW 2001 Building and Construction Industry Long Service Payments Corporation Ground Floor cnr Donnison & Baker Streets Gosford NSW 2250 Locked Bag 3000 Central Coast MC NSW 2252 Tel: 13 14 41 Fax: (02) 9287 5685 Email: info@lspc.nsw.gov.au www.lspc.nsw.gov.au ABN 93 646 090 808

Levy Receipt

Receipt No. 00051417

Received from: (Name of person or organisation paying for levy)

the amount of

ROSS ALAN GRANT

\$10,500.00

Payment details:

Direct Deposit

\$10,500.00

being payment for Long Service Levy as detailed below

Levy Payment Form number

0287963

Council/Department/Authority

PITTWATER COUNCIL

D.A. Number

N0535/05

Work address

237 WHALEBEACH ROAD

WHALE BEACH NSW 2107

Estimated value of work

\$3,000,000.00

Levy payable (No exemption)

\$10,500.00

Total levy paid

\$10,500.00

Signed: (Signature of authorised person)

Date

3115/07

5992

Assessor Certificate

Single Dwellings (BCA Class 1).
Certificate Version 4.0. Effective from 1 July 2004

Issued in accordance with requirements of the



BASIX. Assessor Company: The House Energy Rating Co. Aust. ABSA #: 20069 Name: Paul Brennan 18 Garden Street, Kingsford NSW 2032 Address: Email: info@house-energyratings.com.au Fax: 9349 6912 9345 0219 Phone: Provided design advice to client Declaration of interest: Client Company: Mr & Mrs Grant Name: Address: Email: Fax: Phone: Project 237 Whale Beach Road, Whale Beach NSW Address: LGA: Pittwater Applicant: (as above) Assessment 2.32B Version: Software: **NatHERS** File ref: PIT/1444 1 Jun. 07 Date: Proxies referenced: Documentation All details, upon which this assessment has been based, are included in the project documentation that has been stamped and signed by the Assessor issuing this certificate, as identified below: Thermal Performance Spec. / Schedule of Commitments: Attached, Affixed to drawings Page#: CC01 Drawings: CC01-03. (Title, Ref #, Revision, Issue date, etc) **Building Specifications:** (Title, Ref #, Revision, Issue date, etc)

	Certificate	- BASI	X 'THERMAL CON	FORT'
ABSA Assessor	#: 20069		Certificate #:	21480690
Predicted annual en	ergy loads (MJ/M²/)	/ear)		
Heating 79 Load:	Cooling Load:	21	** Company of the Com	
			Adjustment:	Adjusted Total:
Rating				
Climate Zone: 17	,		armi mara	
Concessions (Identi	fy type & supporting	evidence)	ABSA Assessor stamp	
Concession: N Adjustment:				Name of the second seco
Assessed total:			765 y 200 6	69 Com 21480690
3.5 star max:			('Energy' values & 'Ratings actime of assessment, THERCA altered after this assessment)	pply to plans/information/specifications supplied at accepts no liability for plans/documentation

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SECTION AND ADDRESS OF

Cermicate number, 22976 version 2

This call fredie confirms that the proposed development will need the NSW government is built related to sustainability. It is built in accordance with the proposed has been the subject of an Alemania Assessment by the Decariner; of Planning The schedule below contains adollitional commitments, shown in failure. Terms used in this certificate, or in the commitments, raive the meaning given by the discurrent entitled TBASIX Definitions. Takes 00.05 published by the Department of Planning. This document is available at www.basix.nsw.gov.au.

Director-Cemera: Date of issue:

Friday 1 June 2007

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Energy, 28 , Target 25)

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Schedule of BASIX commitments

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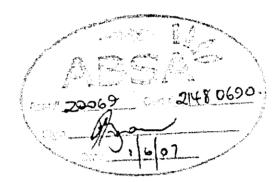
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Guy de Compiegne Architect
QUADRANT DESIGN PTY LTD 64 Goodhope street Padington 2021 Tel:0425 221193 /02 9331 2232 email:gdcomp@mpx.com.au

Mr & Mrs GRANT

237 WHALE BEACH ROAD WHALE **BEACH NSW**

SITE PLAN

Project number	0415	-	0004	
Date	APRIL 2007		CC01	
Drawn by	Author			
	FOR COSTING ISSUE	Scale		1 : 100

DESIGN CERTIFICATION

237 whale Beach Road, Whale Beach **ADDRESS PROJECT** Ross Alan Grant Pursuant to the provisions of Part 4A of the Environmental Planning and Assessment Regulation 1994 LO GREENHAUGH OF TROME OF SYDNEY P/L (Name of Certifier) IH EDSECLIFF ED WOULDHEA Qualifications and experience: CEET. HOET (HONS); MAILDM; MAIH, DEECTOR TEOPIC GESY DUEY (25 M) Bus 95671971 Fax 93590275 Mob. Phone numbers: hereby certify:-That the ...Landscaping...... listed in Schedule A have been checked and comply with:-(Type of drawings and specifications) a) The relevant clauses of the Building Code of Australia (Housing Provisions), as follows:... b) The architectural plans submitted to the Accredited Certifier for approval (Schedule B), c) The relevant Australian Standards listed in the Building Code of Australia (Specification A1.3) as follows:..... d) The following additional Australian Standards (if applicable):..... e) Other practices or standards relied upon for this certification:..... Condition C12 of DA No N0535/05 issued by Pittwater Council dated 11th August 2006 f) Exclusions: YES/NO.....

DESIGN CERTIFICATION

ADDRESS 237 Whole hach road.
PROJECT Kozs slaw grant

SCHEDULE A

Design Drawing Numbers and Revision List and Specifications reference.

LANDSCAPE PLAND DWG 021603 L TROPIC OF SYDNEY 02 99602472-

GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 2 — To be submitted with detailed design for construction certificate
Development Application for MR ROSS GRANT
Name of Applicant
Address of site 237 WHALE BCH RD
WHALE REACH.
Declaration made by Structural or Civil Engineer in relation to the incorporation of the Geotechnical Issues into the project design
(under name) (under or company name)
on this the 17th MAT, 2007.
(/4)7)
certify that I am a Structural or Civil Engineer as defined by the Geotechnical Risk Management Policy for Pittwater—I am authorised by the above organization/company to issue this document and to certify that the organization/company has a current professional indemnity policy of at least \$2million—I also certify that I have prepared the below listed structural documents in accordance with the recommendations given in the Geotechnical Report for the above development.
Report Title: DOUGLAS PTRICS - PROJECT 37583 A
Report Date: APPAL 2005
Author RICHARD WOYD
Structural Decoments list:
4095 500 COLD, SOL SCZ 303, SO4, 205
-05-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
I am also aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately
addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated
and justified
(signature)
Deciaration made by Geotechnical Engineer or Engineering Geologist in relation to Structural Drawings
1.12005 poughi no me
I prepared and/or lechnically verified the abovementioned Geotechnical Report as per Form 1 dated 28/41—and now certify that have viewed the above listed structural documents prepared for the same development. I am satisfied that the recommendations given in the
Geotechnical Report have been appropriate taken into account by the structural engineer in the preparation of these structural documents that am aware that Pittwater Council relics on the processes covered by the Geotechnical Risk Management Policy, including this certification as
the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified in
the Report and that reasonable and practical measures have been identified to remove foreseeable fisk
Signature
Name GEOFF Young
Chenered Professional Status BEMENG Sc, ABAUST, NPER, CPBy
Membership No. 986.50.

itm design,

consulting hydraulic engineers

6 / 3 apolio street warriewood nsw 2102 po box 1438 mona vale nsw 1660 abn 25 092 366 624 tel (02) 9997 1566 fax (02) 9997 3266 mobile 0411 869 504 email_itm@bigpond.net.au

Quadrant Design

Att.: Guy de Compiegne

Date 4 June 2007

File 04 - 85 / cert 1001.doc

project: 237 whale beach road, whale beach

re: certificate of design for stormwater, sewer, water + gas services

I hereby certify that the above design is in accordance with normal engineering practice and meets the requirements of the Building Code of Australia, relevant Australian Standards and Conditions of the DA

In particular the design is in accordance with the following:

Sanitary and Stormwater Plumbing & Drainage:

AS 3500.2 + 3500.3

Domestic Hot & Cold Water Services:

AS 3500.1 + 3500.4

Natural Gas:

AS 5601

Pittwater Council's Stormwater Requirements

DA conditions B3, B5 (excluding downpipes), B11 (Hydraulic part only), C2, C3, C7,

Drawings prepared by itm design pty ltd H - 00 to H - 06 (all revision 'C' / dated 4th of June 2007)

I am an appropriately qualified and competent professional Hydraulic Engineer and a member of the AHSCA (Association of Hydraulic Services Consultants Australia) and as such can certify that the design and performance of the design systems complies with the above.

- name of certifying company	- itm design pty ltd
- name of certifier	- Markus Lachele
- phone	- (02) 9997 1566
- mobile	- 0411 869 504
- fax	- (02) 9997 3266
- position within company	- Director
- qualification of certifier	- Dip. Hydraulic Engineer and a member
	of the AHSCA (Association of Hydraulic
	Services Consultants Australia)

Date: 4th of June 2007

Markus Lachele, Director, itm design pty ltd, Hydraulic Engineer AHSCA



Douglas Partners

Geotechnics • Environment • Groundwater

REPORT on GEOTECHNICAL INVESTIGATION

PROPOSED RESIDENCE 237 WHALE BEACH ROAD WHALE BEACH

Prepared for MR and MRS R GRANT

Project 37583A April 2005

Douglas Partners Pty Ltd
ABN 75 053 980 117

96 Hermitage Road West Ryde NSW 2114 Australia PO Box 472 West Ryde NSW 1685

Phone (02) 9809 0666Fax: (02) 9809 4095
sydney@douglaspartners.com au





RKL:ss Project 37583A 27 April, 2005

REPORT ON GEOTECHNICAL INVESTIGATION PROPOSED RESIDENCE 237 WHALE BEACH ROAD, WHALE BEACH

1. INTRODUCTION

This report details the results of a geotechnical investigation carried out for a proposed new residence at 237 Whale Beach Road, Whale Beach. It is understood that the development will comprise a multi-level masonry and concrete residence with a new garage linked to the existing garage and a swimming pool on the eastern side of the residence. The work was carried out at the request of Guy de Compiegne of Quadrant Design Pty Ltd, acting on behalf of the owners Mr and Mrs Grant.

Investigation was carried out to provide information on subsurface conditions for Development Application purposes and for the design of site works and building foundations. It comprised geological inspections of the site and accessible adjacent areas, the drilling of three test bores and test probes at selected locations. Details of the field work are given in this report, together with comments relating to design and construction practice.

Architectural drawings (Project 0415, Drawings DC01 to DC04, Issue 11 April 2005) by Quadrant Design Pty Ltd and a site survey plan were supplied by for use in the investigation.



3. FIELD WORK

3.1 Field Work Methods

The field investigation comprised detailed geological inspections of the site and adjacent areas by a senior engineering geologist on 24 November 2004 together with three test bores (Bores 1 to 3) and a series of test probes (Dynamic Penetrometer Tests - DCPs) at each bore location with an additional test on the low, eastern portion of the site.

The bores were drilled using man-portable drilling equipment to a depths of 4.0 m to 6.3 m. The bores were initially progressed using hand auger equipment, then extended into the bedrock using pneumatically powered, diamond coring methods to recover NMLC (50 mm diameter) core samples. Sampling of the overburden was carried out by removing cuttings from the auger tip.

The locations of the test bores and DCP tests are shown on Drawing 1 and were determined by tape measurement from site boundaries. The surface levels shown on the borehole logs and DCP result sheet were determined by interpolation from the site survey plan provided.

3.2 Site Observations

The principal observations made during inspection of the site and adjacent areas were that:

- within the upper portion of the site, where development is proposed, there was no outcrop within the proposed foundation area or adjacent sections of the site.
- across the lower, eastern portion of the site there was no outcrop with beach sand dune
 present beyond the eastern boundary towards the northern end where the property
 immediately adjoins Whale Beach.
- the slope between the upper and lower areas of the site comprised a landscaped garden across the southern half and adjoining southern property, and across the northern half and the adjoining northern property comprised sandstone outcrop with some soil infilled joints and detached blocks (Photo 6).



Bore 2 penetrated 0.8 m of filling then a probable sandstone floater to 2.35 m then extremely low and very low strength sandstone to 4.0 m with medium strength from 4.03 m to 5.32 m depth.

Bore 3 penetrated filling/overburden and extremely low sandstone to 2.0 m, then high and medium strength sandstone to 4.0 m with core loss between 3.18 m and 3.5 m. Groundwater was encountered in Bore 3 at 1.5 m depth during hand augering and is considered to represent a perched water table and seepage along the top of rock rather than a permanent groundwater level which would be a greater depth within bedrock.

The presence of sections of core loss within the rock suggests that there could be layers of extremely to highly weathered, very low strength rock within the stronger bedrock.

DCP tests carried out adjacent to Bores 1 to 3 typically indicated firm to stiff conditions within the overburden. DCP 2A, which was undertaken within 2 m of DCP 2, penetrated approximately 1.1 m deeper than DCP 2, which suggests that Bore 2 encountered a sandstone floater in the upper level of the bore.

DCP 4 encountered refusal at 3.29 m depth which is consistent with the level of rock (shale) encountered in the test bore drilled on the adjacent, northern property (Bore 1 of Project 12148 – presented in Appendix A).

4. COMMENTS

4.1 Proposed Development

It is understood that the development will comprise a multi-level masonry and concrete residence with a new garage linked to the existing garage, and a swimming pool on the eastern side of the residence. Inspection of the plans suggest that excavation of the order of 3.5 m may be required for lower ground and pool level construction with about 1.8 m of excavation for the swimming pool itself.



The site has been assessed in accordance with the methods of the Australian Geomechanics Society (Landslide Risk Management AGS Subcommittee, May 2002) and Pittwater Council Interim Geotechnical Risk Management Policy (IGRMP) guidelines of 16 June 2003. Identified hazards within and adjacent to the site are summarised in Table 1, together with qualitative assessment of likelihood, consequence and risk to the proposed development after completion of the works, including appropriate engineering design and construction works.

Table 1 - Property and Life Risk Assessment for Proposed Development

Hazard	Likelihood	Consequence	Risk
Soil creep, or slumping of	Likely, but adequately	Property – Insignificant	Low
filling /colluvium across slope between upper and lower sections of site	controlled by landscaping maintenance, or	Life - Insignificant	1 x 10 ⁻⁶
Collapse of temporary excavation support measures during construction	Rare, for engineer designed and properly constructed support measures	Property – Medium (on adjacent northern property)	Low
duning construction	,	Life – Medium	1 × 10 ⁻⁷
Collapse of final retaining walls of residence.	Rare, for engineer designed and properly constructed	Property – Major	Low
walls of residence.	structure	Life - Major	1 x 10 ⁻⁶
Loss of sand on lower area of site due to coastal forces and	(Barely Credible to) Rare – within the next 100 years	Property - Insignificant	Very Low
complete exposure of sandstone outcrop	(Ref. Patterson Britton Coastal Engineering Assessment Report)	Life - Insignificant	1 x 10 ⁻⁹

When compared to the requirements of the IGRMP, it is considered that the proposed development will achieve the "Acceptable Risk Management" criteria for both property and life under current site conditions. It is also considered that the site is suitable for the proposed development.

4.4 Excavation

The architectural concept drawings indicate that excavation to the order of 3.5 m depth may be required for lower ground and pool level construction, with about 1.8 m of excavation for the swimming pool.



possible minor volumes of filling from this site. Accordingly, environmental testing may need to be carried out to enable classification of the spoil to be removed.

The type and extent of testing undertaken will depend on final use or destination of the spoil, and requirements of the receiving site. It should be noted that some non-licensed fill sites, such as those operated by Councils may have their own special environmental criteria to be met before admitting any materials.

4.6 Retaining Structures

Engineer designed retaining walls should be used for all cuts in excess of 1 m height and be designed in accordance with the following suggested parameters.

Table 2 - Suggested Design Parameters for the Design of Retaining Structures

Material	Coefficient of Active Earth Pressure (Ka) *	Unit Weight
Colluvium/filling	0.4	20 kN/m ³
Clay - stiff/very stiff	0.3	20 kN/m³
Sandstone - extremely low to	0.25	24 kN/m³
very low strength	i and the draining backfill ma	torial habind the wall

^{*} Assuming a level surface behind any retaining structures and free draining backfill material behind the wall.

All retaining structures should be designed incorporating free draining backfill material behind the structure with appropriate subsoil drainage to discharge all seepage and groundwater collected within the backfill material. Appropriate design and construction of all retaining walls is considered particularly important on this site as the investigation suggests the possible presence of a shallow water table or significant subsurface water seepage and movement.

Allowance for the sloping nature of the site above the crest of any retaining structures will be required as well as consideration of any surcharge loading.



4.8 Site Drainage

Appropriate surface and subsurface drainage is very important with respect to the overall stability of a sloping site and to the amenity of the proposed structures.

It is recommended that all surface and stormwater run-off from both the house and surrounding land be collected in a properly designed stormwater system and directed off site in a controlled and approved manner. All ground surfaces adjacent to the buildings walls should be sloped away from the building to prevent ponding and reduce the risk of dampness.

Subsurface seepage collected from behind retaining structures should also be directed off site in a controlled and approved manner to the Council stormwater system. Consideration could be given to the use of absorption trenches located on the lower, eastern portion of the site should access to the Council stormwater system not be possible.

5. CONDITIONS RELATING TO DESIGN AND CONSTRUCTION MONITORING

To comply with Council conditions and to enable the completion of Forms 2 and 3 required as part of construction, building and post-construction certificate requirements of the IGRMP, it will be necessary for Douglas Partners Pty Ltd to:

- review the structural drawings for compliance with the recommendations of this report.
- inspect all footings prior to placement of steel or concrete.
- inspect any new subsurface drainage measures and drainage measures behind retaining walls.

6. DESIGN LIFE AND MAINTENANCE

Douglas Partners Pty Ltd interprets the reference to design life requirements specified within the IGRMP to refer to structural elements designed to retain the subject slope and maintain the risk of instability within acceptable limits.

APPENDIX A
Notes Relating to this Report
Results of Field Work
Photographic Plates
Drawings 1 and 2



clays and in sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are very disturbed and may be contaminated. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively lower reliability, due to remoulding, contamination or softening of samples by ground water.

Non-core Rotary Drilling — the hole is advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from 'feel' and rate of penetration.

Rotary Mud Drilling — similar to rotary drilling, but using drilling mud as a circulating fluid. The mud tends to mask the cuttings and reliable identification is again only possible from separate intact sampling (eg. from SPT).

Continuous Core Drifling — a continuous core sample is obtained using a diamond-tipped core barrel, usually 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in very weak rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation.

Standard Penetration Tests

Standard penetration tests (abbreviated as SPT) are used mainly in non-cohesive soils, but occasionally also in cohesive soils as a means of determining density or strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposes" — Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg harmer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

 In the case where full penetration is obtained with successive blow counts for each 150 mm of say 4, 6 and 7

 In the case where the test is discontinued short of full penetration, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm

The results of the tests can be related empirically to the engineering properties of the soil.

Occasionally, the test method is used to obtain samples in 50 mm diameter thin walled sample tubes in clays. In such circumstances, the test results are shown on the borelogs in brackets.

Cone Penetrometer Testing and Interpretation

Cone penetrometer testing (sometimes referred to as Dutch cone — abbreviated as CPT) described in this report has been carried out using an electrical friction cone penetrometer. The test is described in Australian Standard 1289, Test 6.4.1.

In the tests, a 35 mm diameter rod with a cone-tipped end is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig which is fitted with an hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the friction resistance on a separate 130 mm long sleeve, immediately behind the cone. Transducers in the tip of the assembly are connected by electrical wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20 mm per second) the information is plotted on a computer screen and at the end of the test is stored on the computer for later plotting of the results.

The information provided on the plotted results comprises:—

- Cone resistance the actual end bearing force divided by the cross sectional area of the cone — expressed in MPa.
- Sleeve friction the frictional force on the sleeve divided by the surface area — expressed in kPa.
- Friction ratio the ratio of sleeve friction to cone resistance, expressed in percent.

There are two scales available for measurement of cone resistance. The lower scale (0—5 MPa) is used in very soft soils where increased sensitivity is required and is shown in the graphs as a dotted line. The main scale (0—50 MPa) is less sensitive and is shown as a full line.

The ratios of the sleeve friction to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1%—2% are commonly encountered in sands and very soft clays rising to 4%—10% in stiff clays.

In sands, the relationship between cone resistance and SPT value is commonly in the range:—

$$q_c \text{ (MPa)} = (0.4 \text{ to } 0.6) \text{ N (blows per 300 mm)}$$

In clays, the relationship between undrained shear strength and cone resistance is commonly in the range:—

$$q_c = (12 \text{ to } 18) c_u$$

Interpretation of CPT values can also be made to allow estimation of modulus or compressibility values to allow calculation of foundation settlements.

Inferred stratification as shown on the attached reports is assessed from the cone and friction traces and from experience and information from nearby boreholes, etc. This information is presented for general guidance, but must be regarded as being to some extent interpretive. The test method provides a continuous profile of engineering properties, and where precise information on soil classification is required, direct drilling and sampling may be preferable.



is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. The Company would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The Company will always be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

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Page 4 of 4



STRATIFICATION SPACING

Term	Separation of Stratification Planes				
Thinly laminated	<6 mm				
Laminated	6 mm to 20 mm				
Very thinly bedded	20 mm to 60 mm				
Thinly bedded	60 mm to 0 2 m				
Medium bedded	02mto06m				
Thickly bedded	0 6 m to 2 m				
Very thickly bedded	>2 m				

DEGREE OF FRACTURING

This classification applies to diamond drill cores and refers to the spacing of all types of natural fractures along which the core is discontinuous. These include bedding plane partings, joints and other rock defects, but exclude known artificial fractures such as drilling breaks. The orientation of rock defects is measured as an angle relative to a plane perpendicular to the core axis. Note that where possible, recordings of the actual defect spacing or range of spacings is preferred to the general terms given below.

Term	Description					
Fragmented	The core consists mainly of fragments with dimensions less than 20 mm					
Highly Fractured	Core lengths are generally less than 20 mm - 40 mm with occasional fragments					
Fractured	Core lengths are mainly 40 mm - 200 mm with occasional shorter and longer sections					
Slightly Fractured	Core lengths are generally 200 mm - 1000 mm with occasional shorter and longer sections					
Unbroken	The core does not contain any fracture					

ROCK QUALITY DESIGNATION (RQD)

This is defined as the ratio of sound (i.e. low strength or better) core in lengths of greater than 100 mm to the total length of the core, expressed in percent. If the core is broken by handling or by the drilling process (i.e. the fracture surfaces are fresh, irregular breaks rather than joint surfaces) the fresh broken pieces are fitted together and counted as one piece.

SEDIMENTARY ROCK TYPES

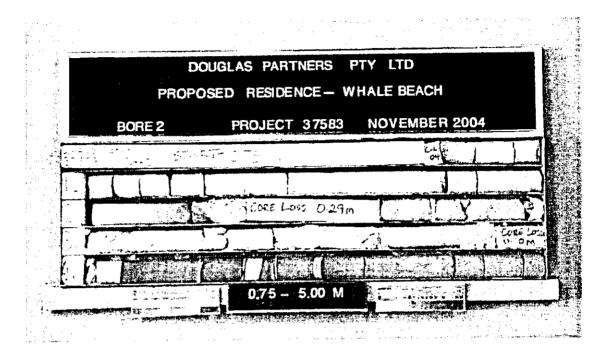
This classification system provides a standardised terminology for the engineering description of sandstone and shales, particularly in the Sydney area, but the terms and definitions may be used elsewhere when applicable

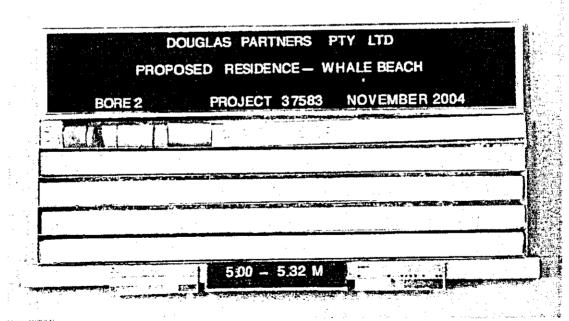
Rock Type	Definition					
Conglomerate	More than 50% of the rock consists of gravel-sized (greater than 2 mm) fragments					
Sandstone:	More than 50% of the rock consists of sand-sized (0 06 to 2 mm) grains					
Siltstone:	More than 50% of the rock consists of silt-sized (less than 0.06 mm) granular particles and the rock is not laminated.					
Claystone:	More than 50% of the rock consists of clay or sericitic material and the rock is not laminated					
Shale:	More than 50% of the rock consists of silt or clay-sized particles and the rock is laminated					

Rocks possessing characteristics of two groups are described by their predominant particle size with reference also to the minor constituents, eg. clayey sandstone, sandy shale.

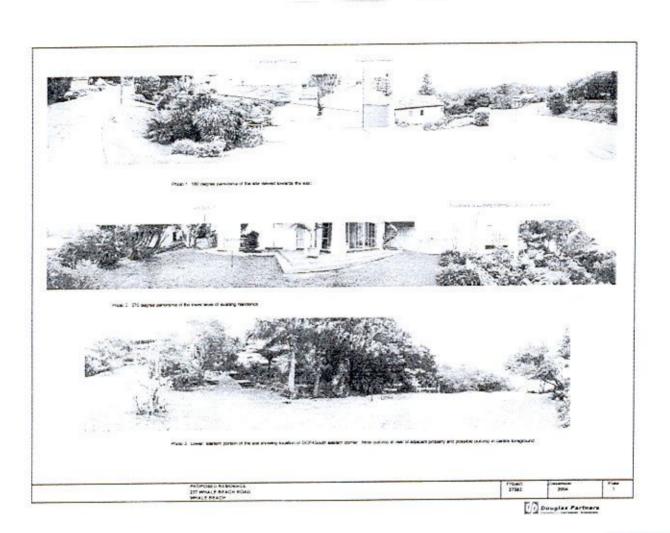
Copyright @ 2000 Douglas Partners Pty Ltd

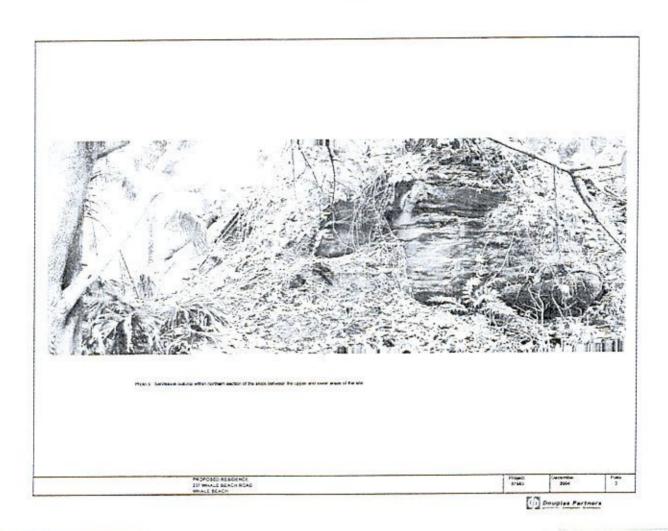
DOUGLAS PARTNERS PTY LTD PROPOSED RESIDENCE— WHALE BEACH BORE 1 PROJECT 37583 NOVEMBER 2004

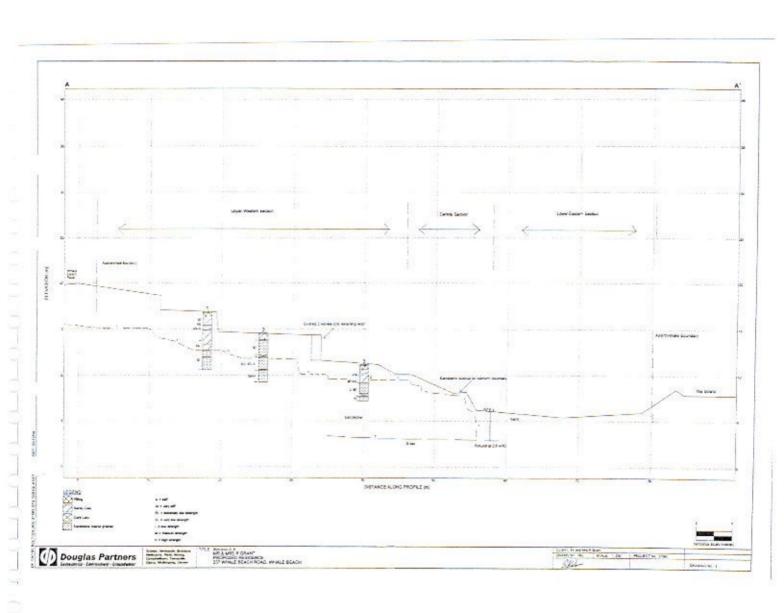


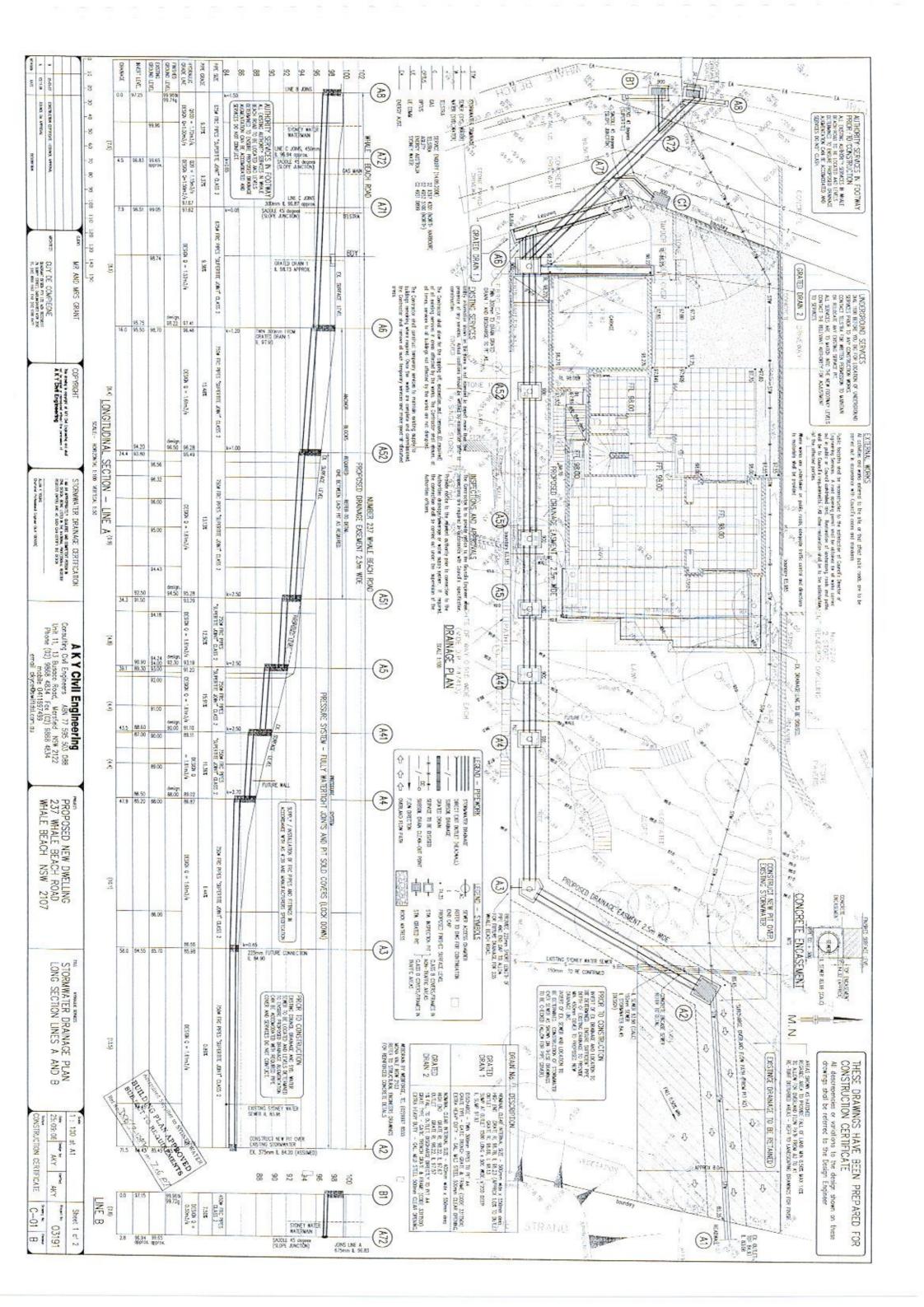


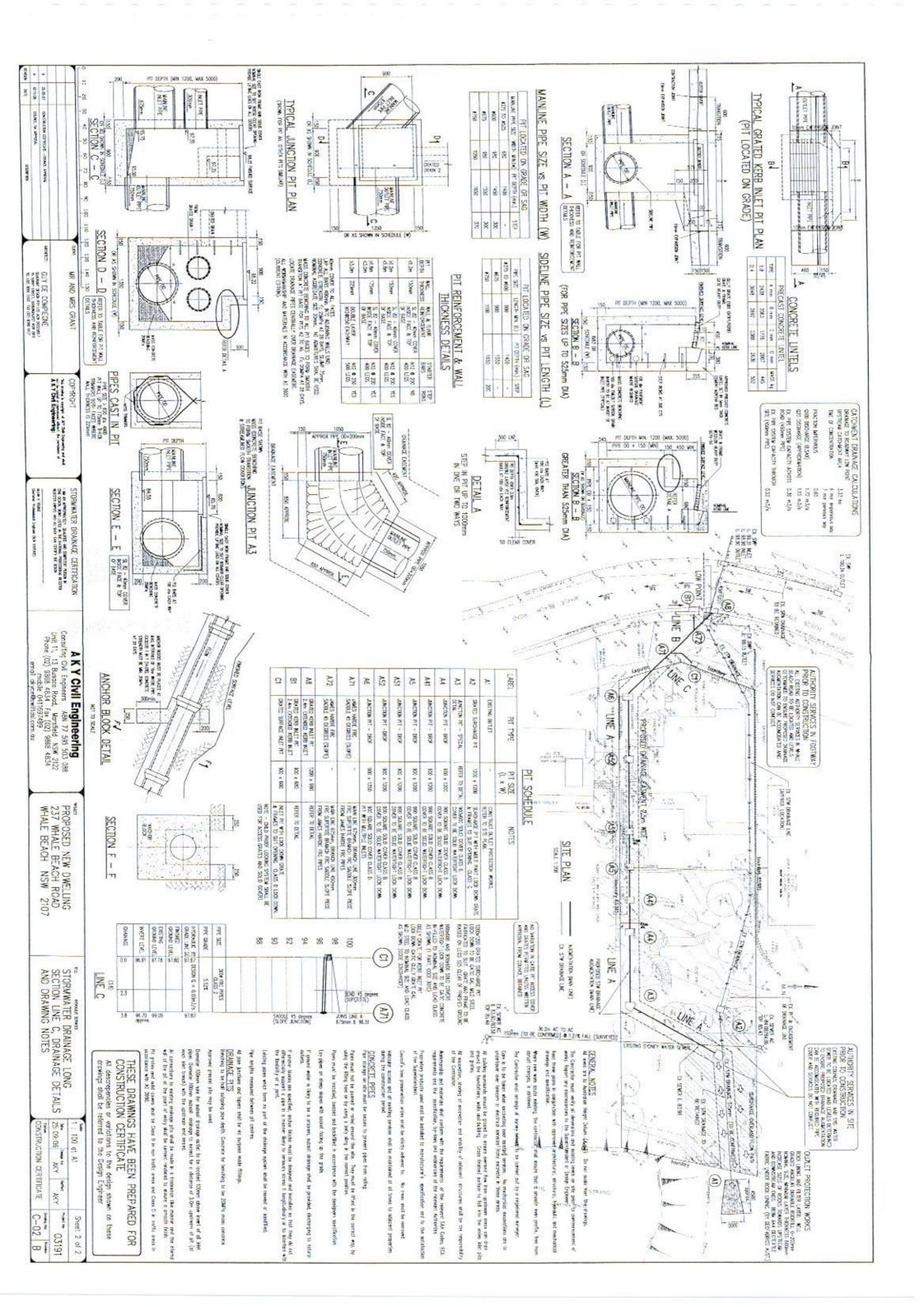
DOUGLAS PARTNERS PTY LTD PROPOSED RESIDENCE - WHALE BEACH BORE 3 PROJECT 37583 NOVEMBER 2004 Core Loss 6-3244

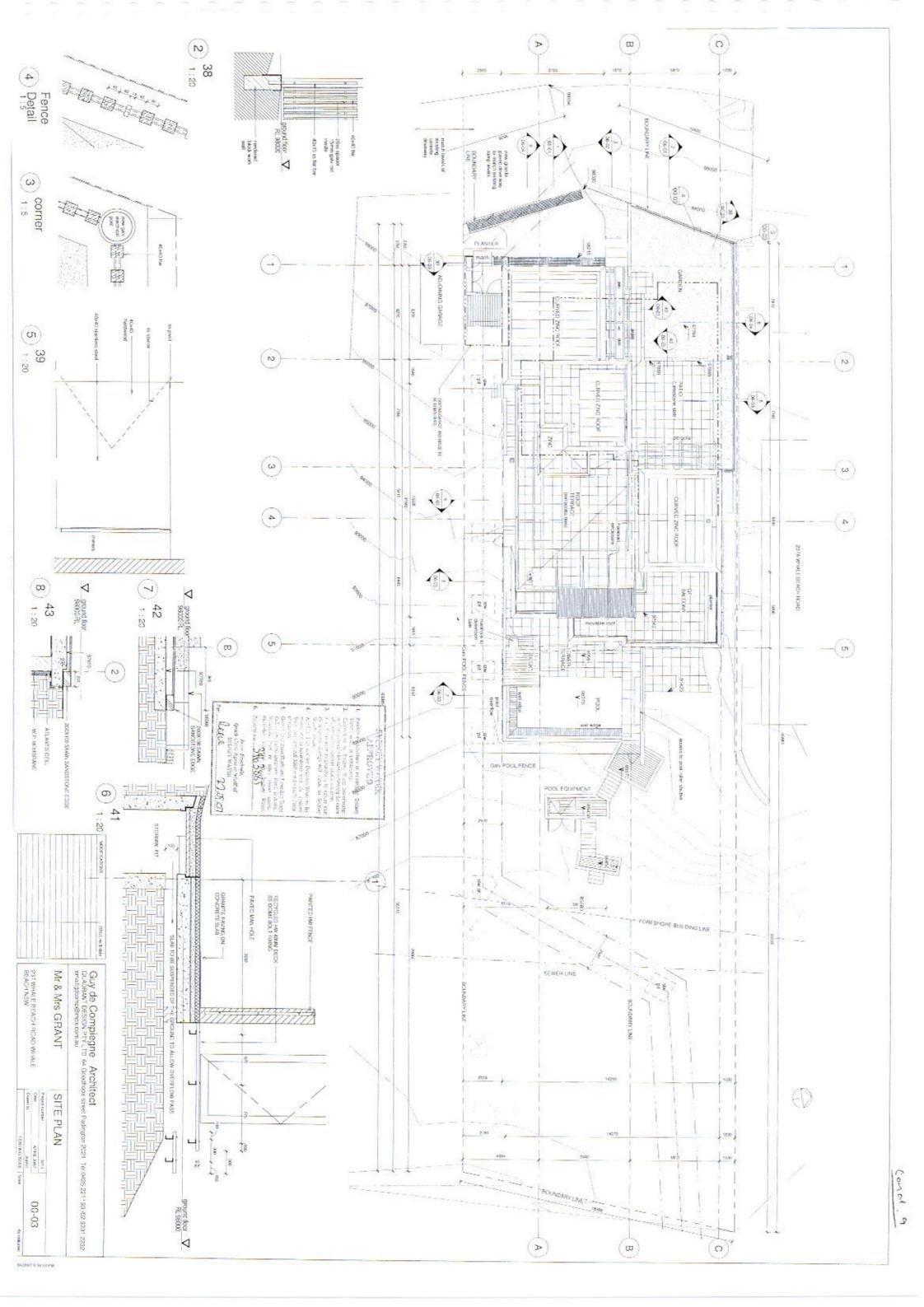


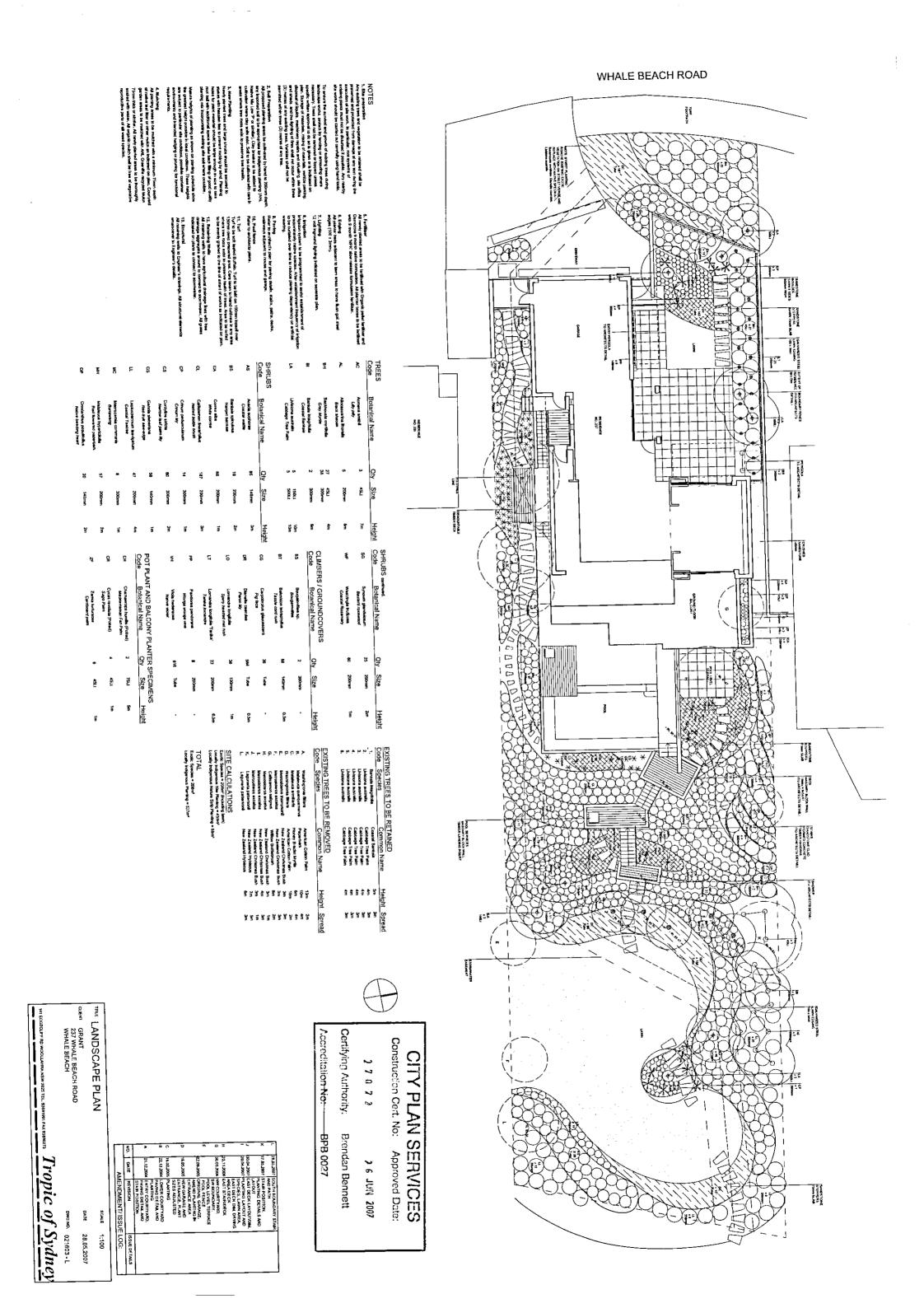




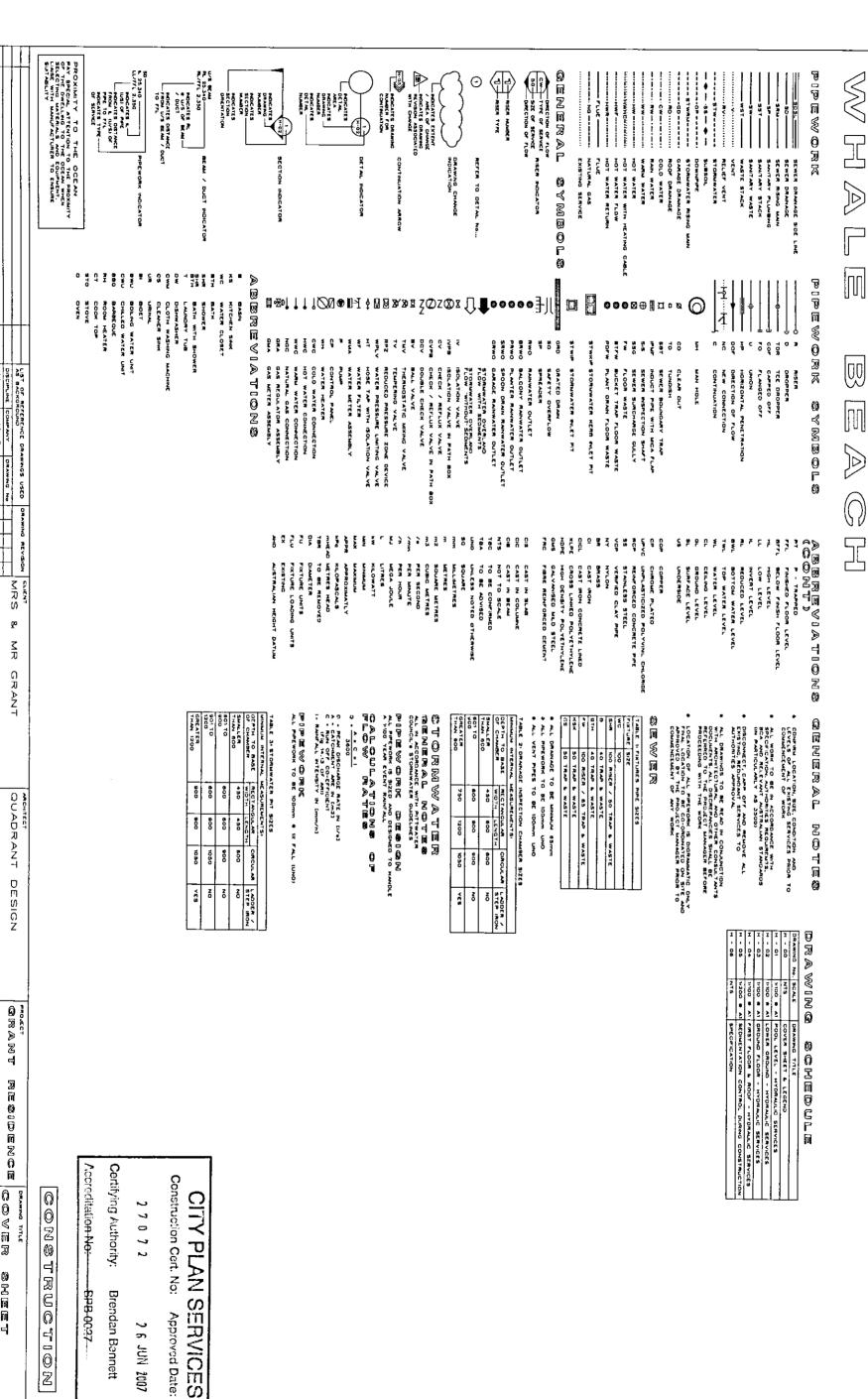








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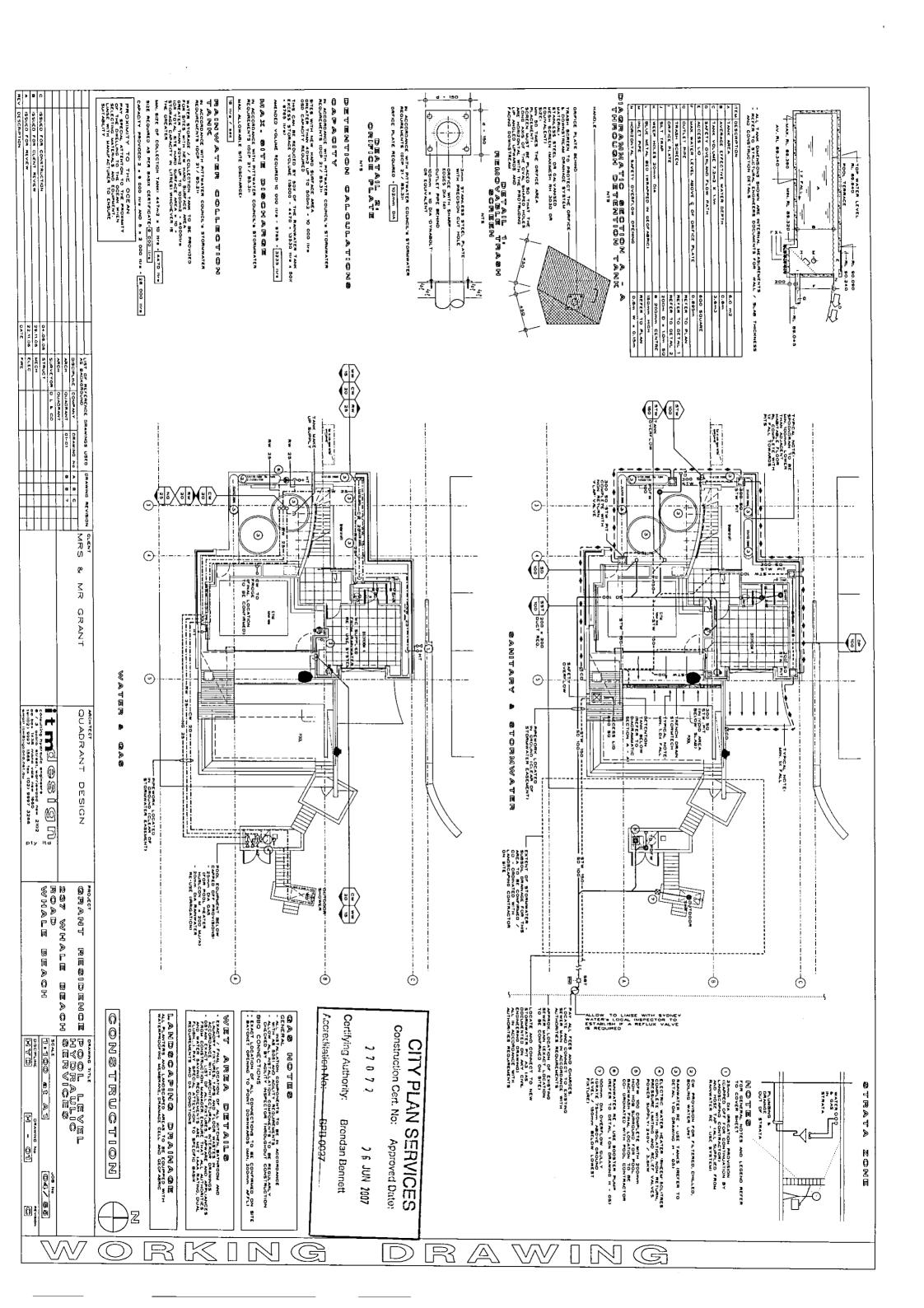
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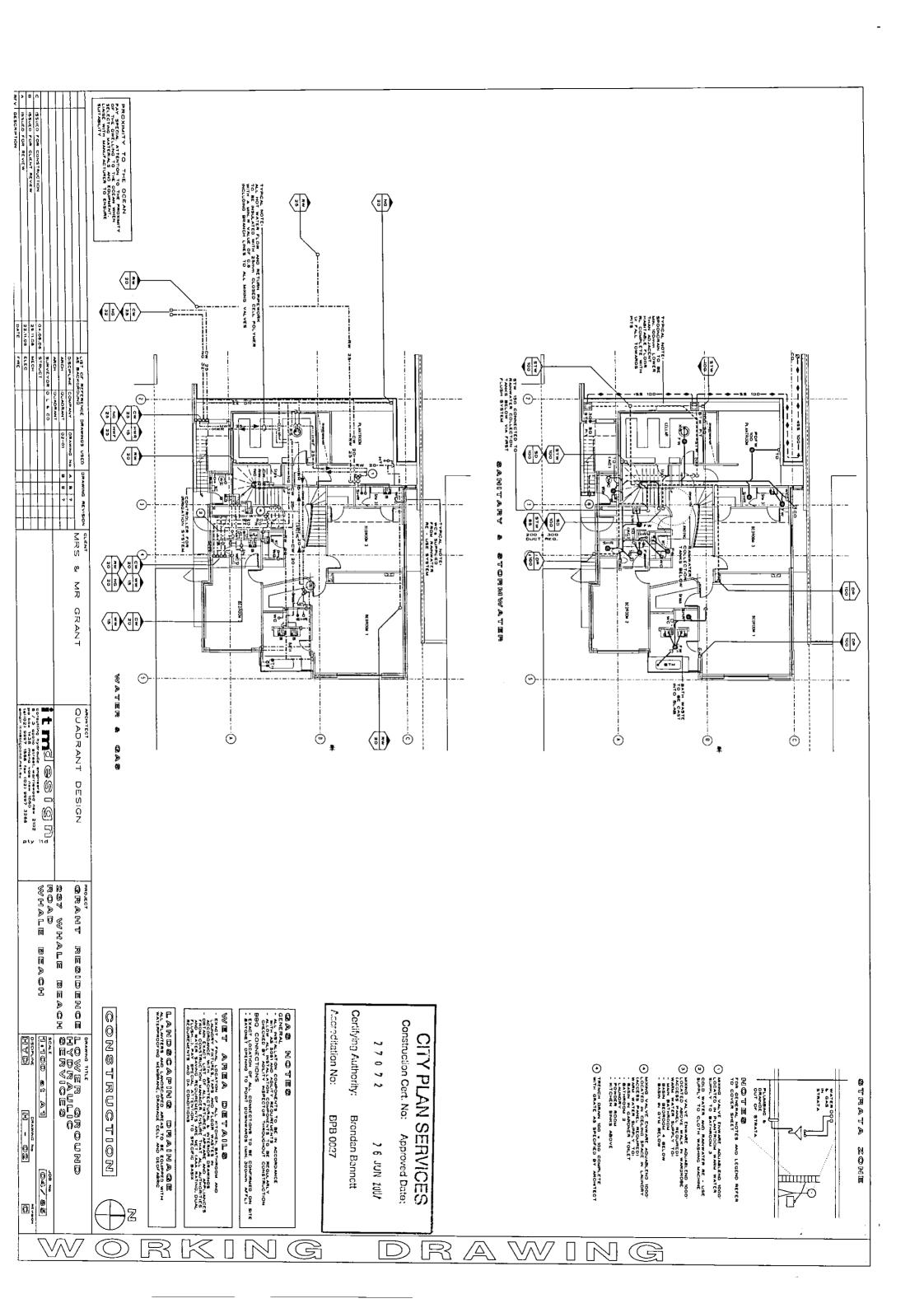
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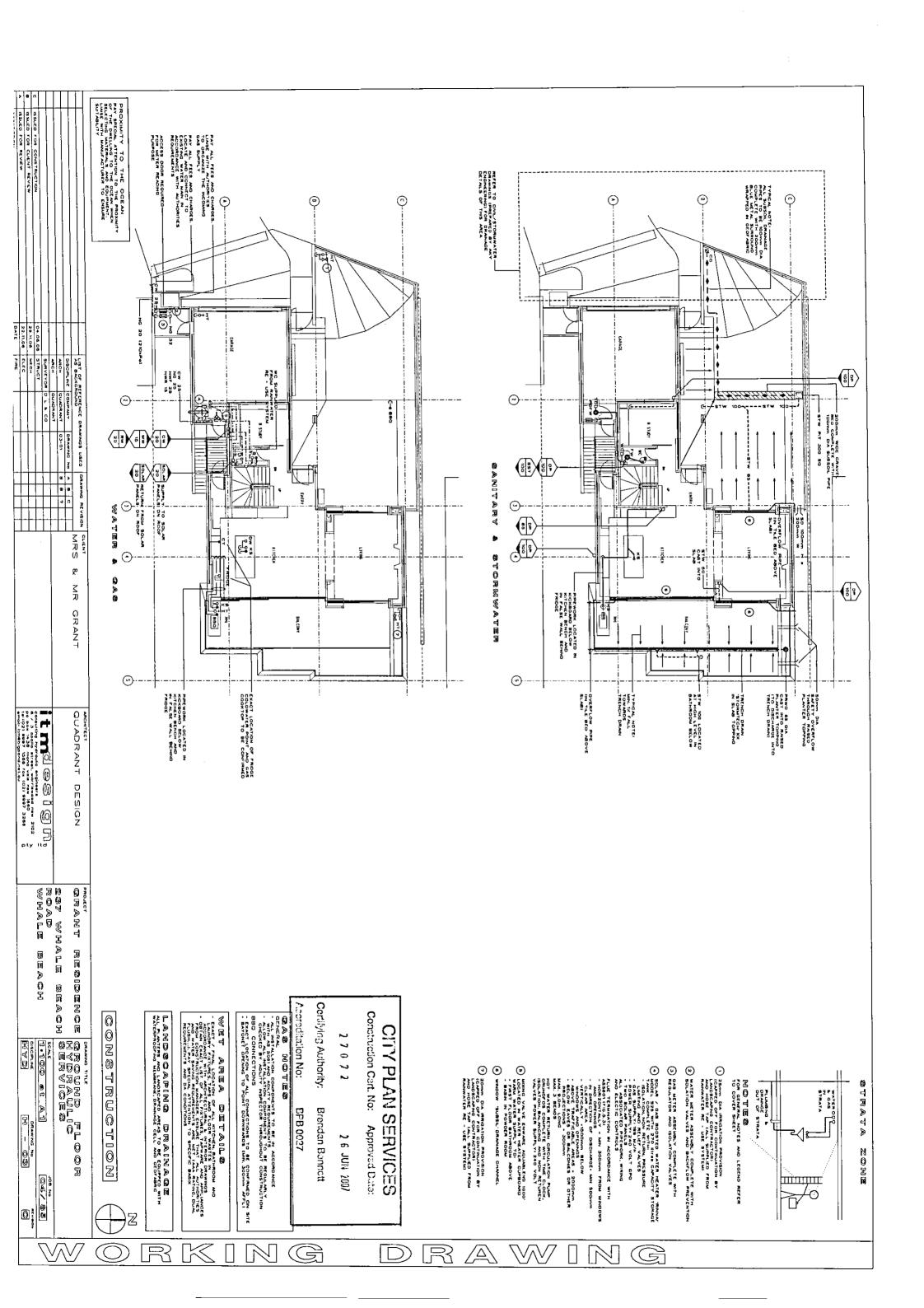
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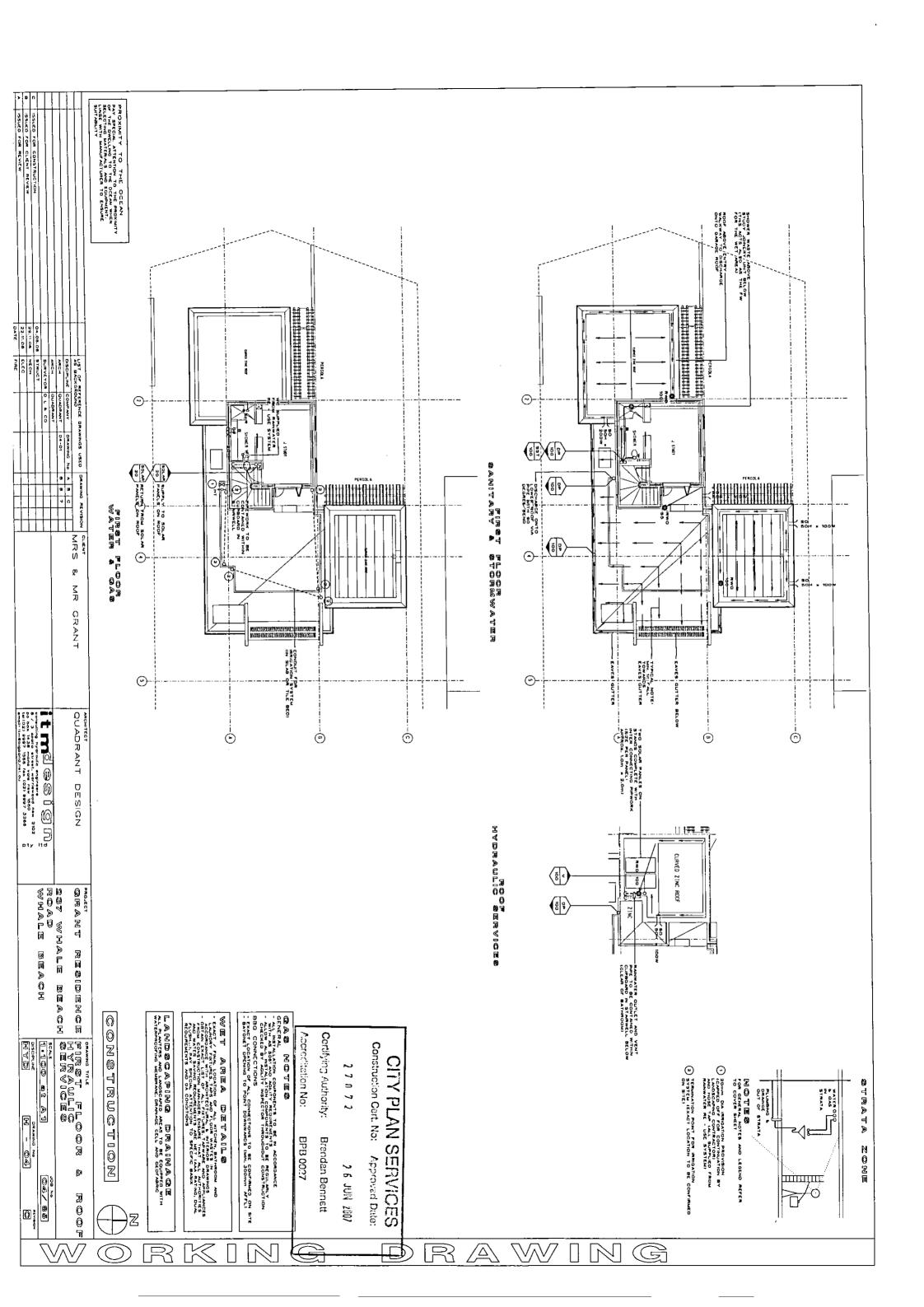
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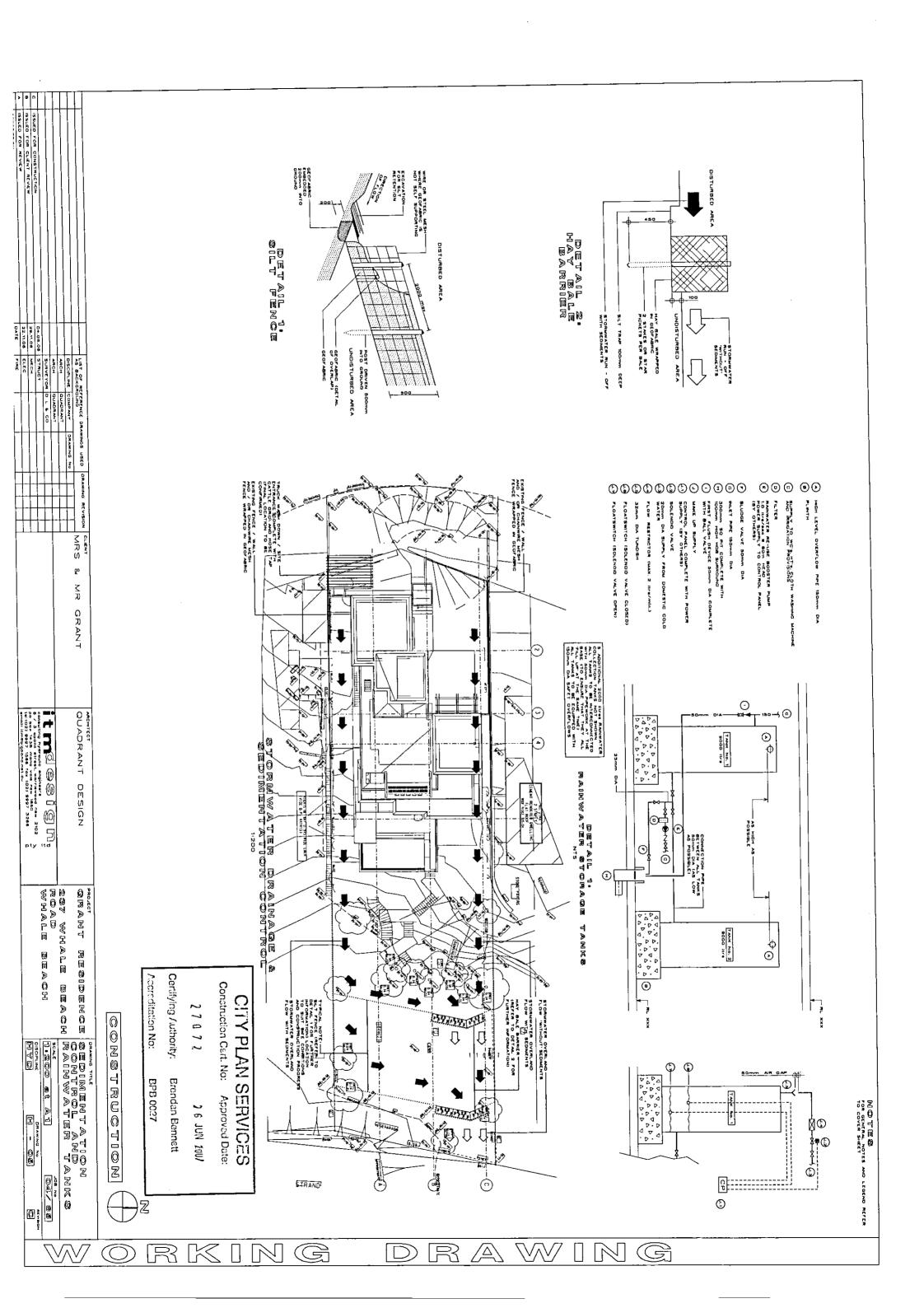
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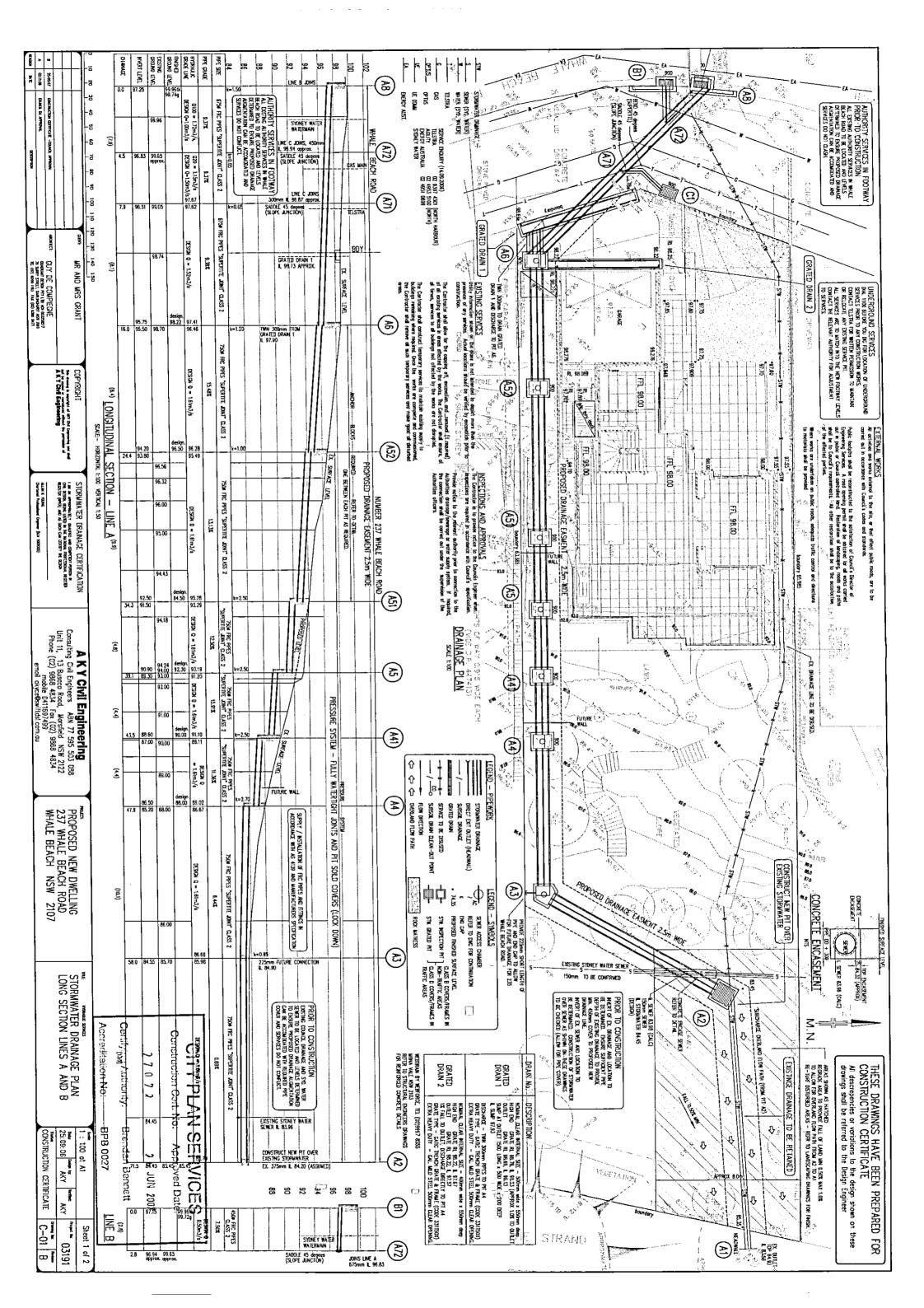


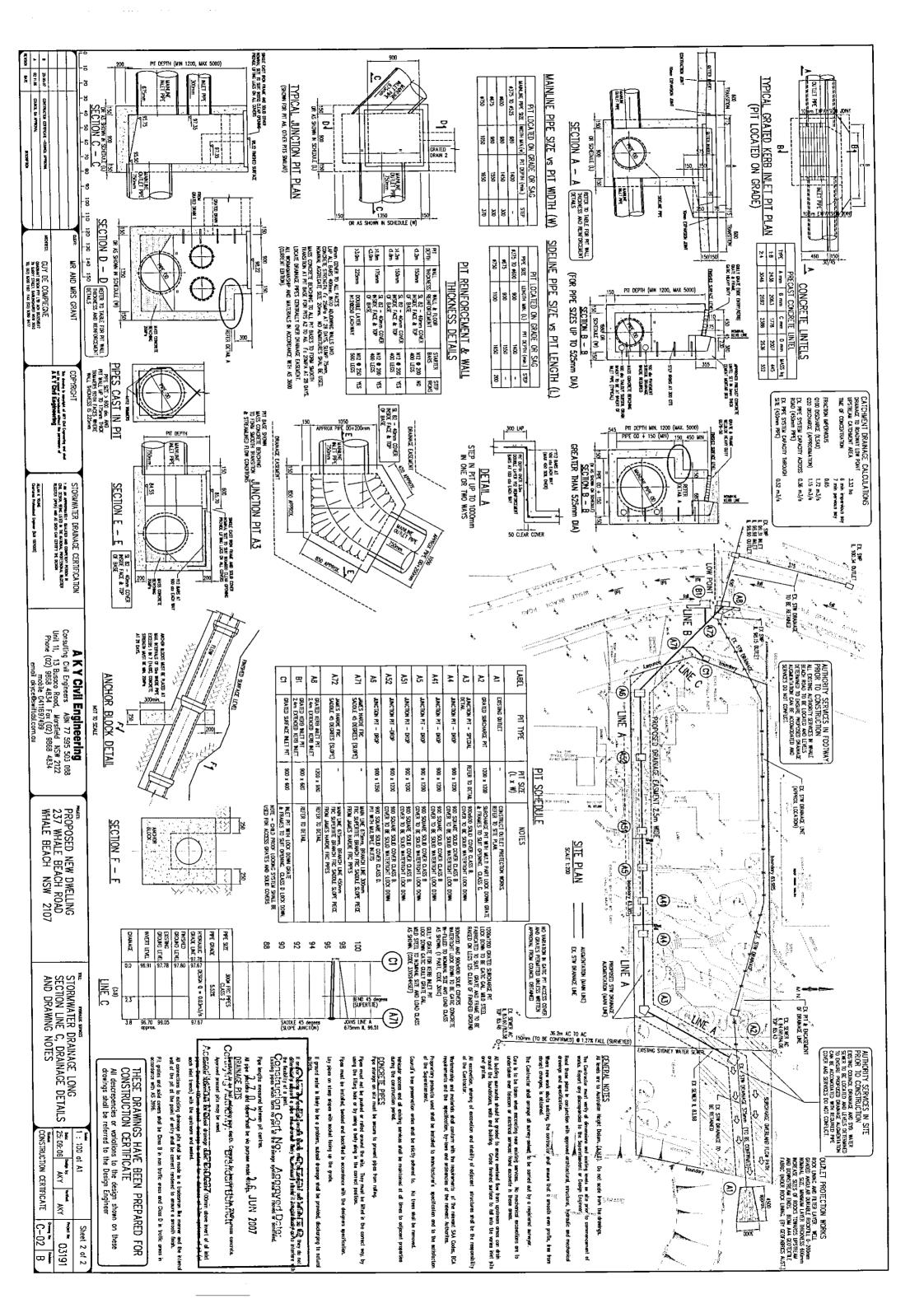


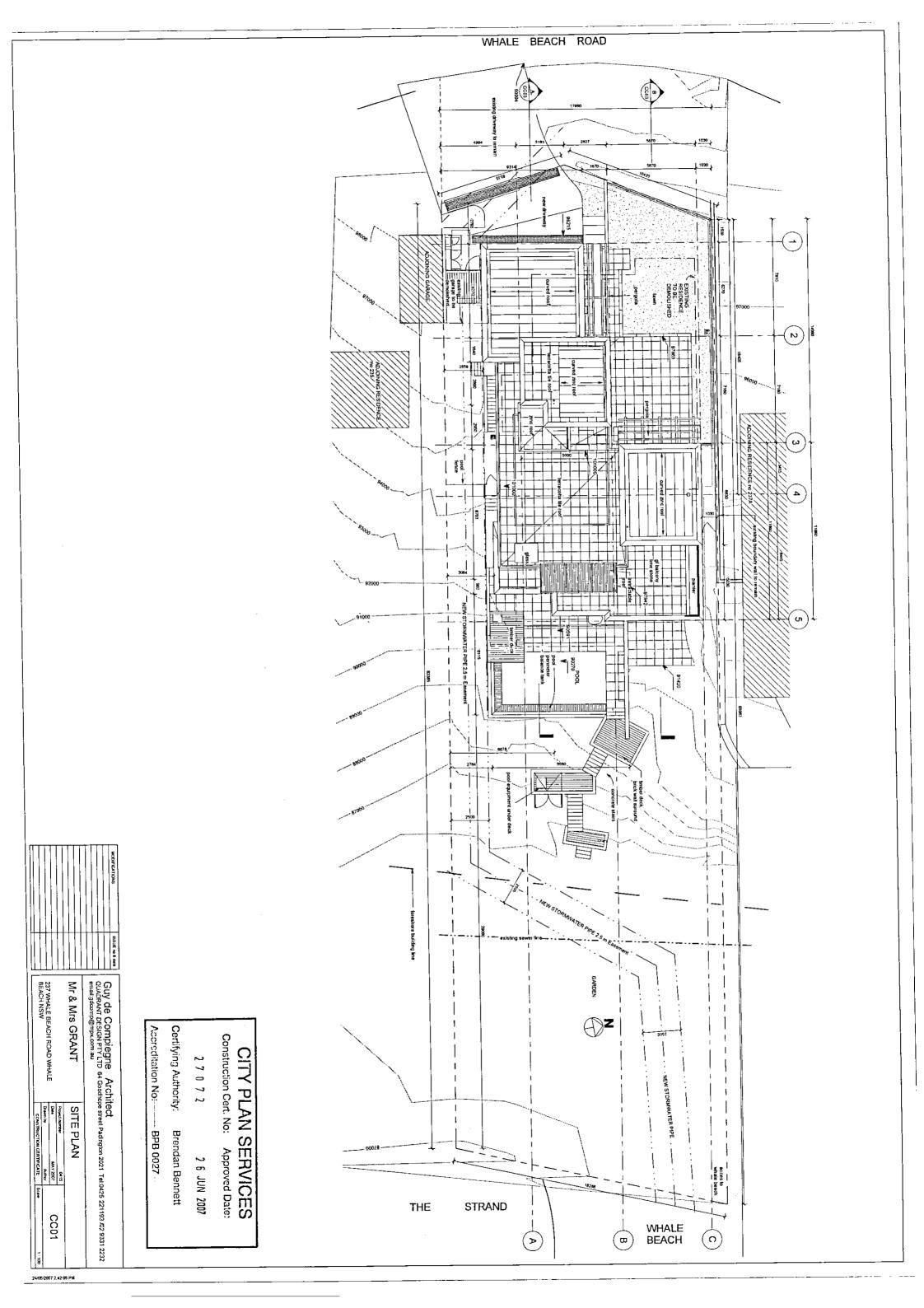


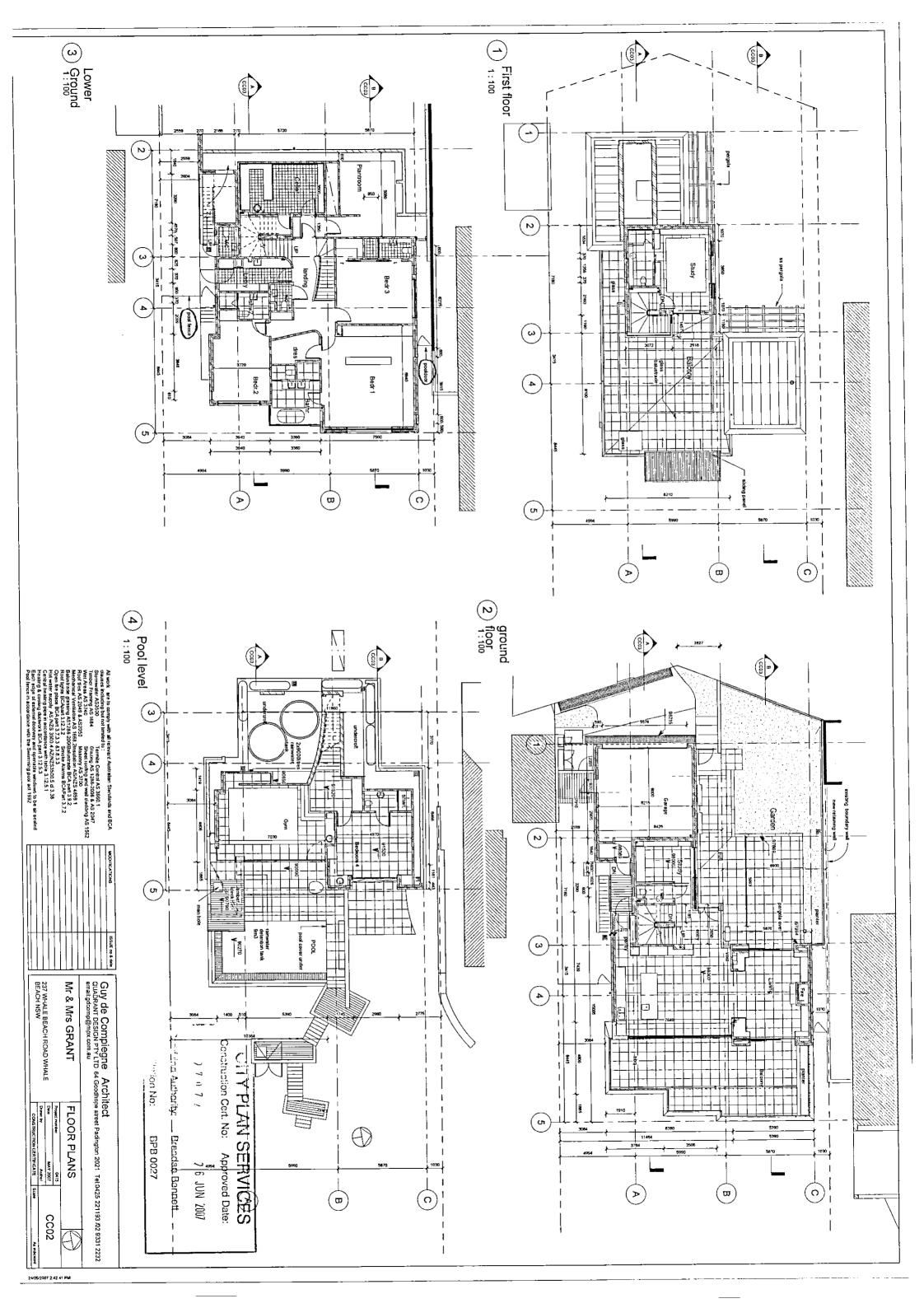


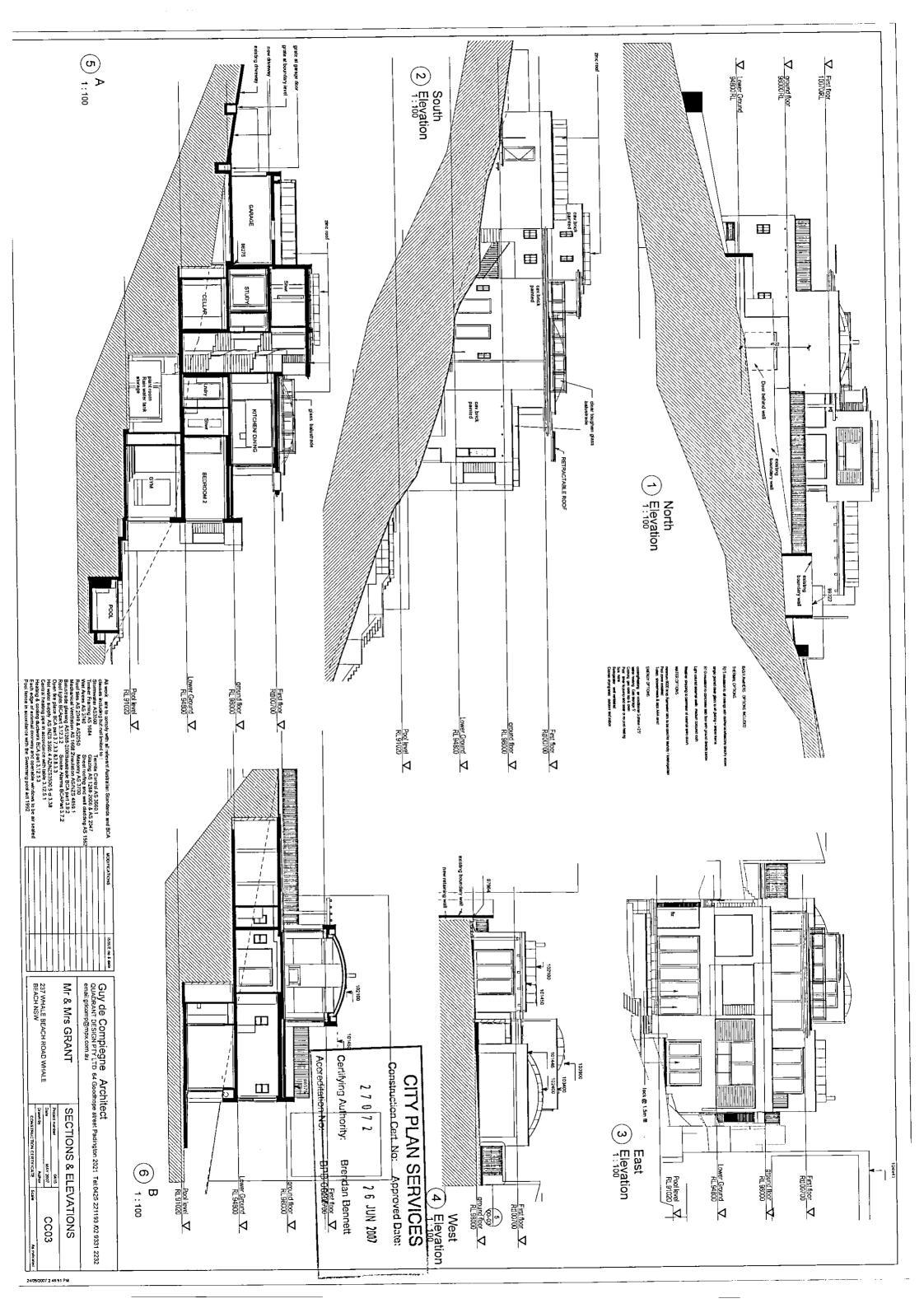
SPECIFICATION: SCOPE OF WORKS SECTION COVERS THE COMPLETE DESIGN, SUPPLY, THE WORK UNDER THIS SECTION COVERS THE COMPLETE DESIGN, SUPPLY, TESTING AND COMMISSIONING OF THE FOLLOWING SYSTEMS: ALLOW TO DISCONNECT AND REMOVE ALL EXISTING, REDUNDANT SERVICES IN ACCORDANCE WITH ANTHER REQUIREMENTS. EXISTING SERVICES FAY ALL FEES AND CHARGES, LIASE WITH RELEVANT AUTHORITIES FOR ALL NEW CONNECTIONS TO EXISTING SERVICES. AS INSTALLED DRAWINGS AND MAINTENANCE MANUALS OF THE WORKS, SUPPLY TWO SCIE OF TAS INSTALLED DRAWING(S) AND MAINTENANCE MANUALS. AL WORKSHOP DRAWINGS BHALL BE CO-OMDINATED WITH EXISTING SERVICES / STRUCTURES, AGGINECTURAL, STRUCTURAL, AND OTHER TRACES DRAWINGS AND DOCUMENTS. THE DRAWINGS SHALL BE SUBMITTED FOR COMMENTS AND APPROVAL PRIOR TO COMMENCENERY OF ANY WORKS. PROTECTION OF WORKS, EXISTING SERVICES AND STRUCTURES BE RESPONDED, FOR THE PROTECTION OF ALL WORKS, EXISTING SERVICES AND STRUCTURES IN PARTICULARY, END OF THE PROTECTION OF ALL WORKS, EXISTING SERVICES AND STRUCTURES IN PARTICULARY, END OF THE PROPERTY (NOCLUMNG HAME GOOD DAMAGE!) - PROTECT PROVINCE AND POWER PARTICULARY (NOCLUMNG HAME GOOD DAMAGE!) A TERNATIVES MIGHT BE CONSIDERED AS LONG AS THEY ARE EDUAL AND CONFIRM WITH RELVANT STANDARDS AND REQUIREMENTS. STANDARDS, REGULATIONS AND REQUIREMENTS THIS SECTION SHALL COMPLY (BUT NOT BE LIMITED) TO: AS 3000.2. AS 3000.2. AS 3000.2. AS 3000.3. COUNCIL TORNIMATER POLICY EXCAVATION AND TRENCHES ALLEY OF ALL EXCAVATION WORK REQUIRED FOR INSTALLATION ALL PIPES SHALL BE ADEQUATELY IDENTIFIED AND LABELLED IN ACCOMPANCE WITH AS 1345 SUPPLY AND INSTALL ALL BRACKETS AND HANDERS IN APPROPRIATE SPACING DISTANCES IN ACCORDANCE WITH RELEVANT STANDARDS AND MANUFACTURERS REQUIREMENTS. 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RIFY AND CHECK THE EXTENT, SIZE AND LOCATION OF EXISTING SERVICES THAT NEED CONNECTION, REMOVAL, DIVERSION, ALTERATIONS PRIOR TO COMMENCEMENT OF ANY WORKS. DOF CONTRACTOR: GUTTERS AND SUMPS RODE PENETRATIONS AND FLASHING NATERIAL AND WORKMANSHIP NATERIAS SHALL BE NEW OF FREE DUALITY AND COMPLY WITH ALL RELAVANT STANDARDS. SPECTION AND TESTING PREMORY AND FLANT SHALL BE TESTED IN ACCOMDANCE WITH RELAVANT STANDARDS. SPECTURES REQUIREMENTS AND ALTHORNIES HARNG AMBOULTION. SPECTURES REALL BE GIVEN, SO THAT DESIGNATED TESTS CAN BE WITHESSED AND TESTAND NOTICE SHALL BE GIVEN, SO THAT DESIGNATED TESTS CAN BE WITHESSED AND TESTAND NOTICE OF THE TYPES OF MATERIAL AND EQUIPMENT DETAILED IN THE WINGS AND SPECIFICATION. NORTH DRAWINGS. DRAWINGS ARE DIAGRAMATIC AND ISSUED AS A QUOK OMLY. THEY SHALL BE READ IN CONSTRUCT ON WITH ALL OTHER RELEVANT DOCUMENTS PREPARED BY THE ARCHITECT OTHER CONSULTANTS. OTHER CONSULTANTS. 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SANITARY & STORWWATER PLUMBING DRANAGE STORMWATER DRANAGE TESTING AND COMMISSIONING VENTILATION PROVIDE ADEQUATE VENTEATION TO ALL APPLIANCES, METERS AND REQUENCES IN ACCORDANCE WITH AGE REQUIREMENTS NSTALL APPROVED ISOLATION VALVE AT INLET TO EACH APPLIANCE. REGULATOR AND METER ASSEMBLY LIMSE WITH AGL TO ORGANISE THE INCOMING GASTHE GAS METER / REGULATOR ASSEMBLY VIOLANIO SUPPLY PRESENTLITERUNATE 225mm BEYOND THE BOUNDARY The incoming supply presentliterunate 225mm beyond the boanings) SERVICE 237 WHALE ROAD WHALE BEA CBVC 8 0440 XL PE Ě HDPE. PERFORATED UPVC HOPE FIBRE FREE A CEMENT ALLANTISTORE A CHUCHEC WITH A ACCORDANCE A OESCRIPTION UNPLASTICIZED POLYVINE CHLORIDE CROSS LINKED TOLYETHYLENE CREHAU POLYETHYLENE DENSITY POLYETHYLENE FIBRE REINFORCED DEMENT REINFORCED CROSS LAKED POLYETHYLENE CREHAU) POLYVINE CHLORIDE UNPLASTICIZED COPPE COPPER RESIDENCE NSTALLED IN ACCORDANCE WITH MANUFACTURERS (VINIDEX / DEBERIT) REQUIREMENTS (mos. 826) AS 1432 TABLE 2 AS 1254 - BELOW GROUND - AS 2032 - NISTALLATION - DEDUAL INSTALED IN TH MANUFACTURERS ND REGUREMENTS HO V B AS 4139 AS 3725 AS 1254 AS 1260 AS 2032 S SUPPLY AND TO OBTAIN AS 4139 AS 3725 3 WITH AG BOI SECTION 2.8. UDING PIPEWORK, PLANT, 1432 TABLE 2 PE GO 1432 TABLE 2 AGE PRIOR TO CONNECTING Certifying Authority: D IN ACCORDANCE WITH TURERS (REHAU) NTS / ON 16802 D IN ACCORDANCE WITH TURERS (AQUATHERM) Approachation No: TUMERS (REHAU) NTS / DIN 18802 DIN ACCORDANCE WITH TUMERS (AQUATHERN) Construction Cert. No: - CLASS 4 UND - LAVING & MST. - BELOW GROUND - ABOVE GROUND - NSTALLATON - ACCORDANCE WITH - RS (VINIDEX / - JREMENTS / - BELOW GROUND - ABOVE GROUND - INSTALLATION CLASS 4 UND LAYING - CLASS 4 UNO CITY PLAN SERVICES 27072 四人 B. L. OB B. C. OB SPECIFICATION CONS RDANCE WITH DRAWING TITLE 닉 20 Brendan Bennett BPB 0027 C Approved Date: 2 6 JUN 2007 CTION 04/85 O : R 究 G G











STRUCTURAL DOCUMENTATION

BEACH HOUSE

237 WHALE BEACH ROAD, WHALE BEACH

JAMES TAYLOR AND ASSOCIATES

4 GURRIGAL STREET, MOSMAN. 2088 A.C.N. 002 376 454 Tel. (02) 9969 1999 Fax (02) 9960 2472

	REFER TO TRANSMITTAL FOR LATEST REVISIONS
900	CONSTRUCTION NOTES
C01	EXCAVATION PLAN AND CIVIL WORKS
501	POOL LEVEL FLOOR PLAN AND DETAILS
502	R.C. DETAILS
503	R.C. DETAILS
S04	LOWER GROUND FLOOR PLAN
S05	R.C. DETAILS
S06	GROUND FLOOR PLAN
S07	R.C. DETAILS
805	LEVEL 1 FLOOR PLAN REINFORCEMENT AND DETAILS
809	R.C. DETAILS
S10	ROOF LEVEL PLAN REINFORCEMENT AND DETAILS
S11	ROOF FRAMING PLAN

FOUNDATIONS

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MASDNRY

CITY PLAN SERVICES

Construction Cert. No: 27072 Approved Date: 2 6 JUN 2007

Certifying Authority: Accreditation No: Brendan Bennett BPB 0027

DATE 0112.06 SOO

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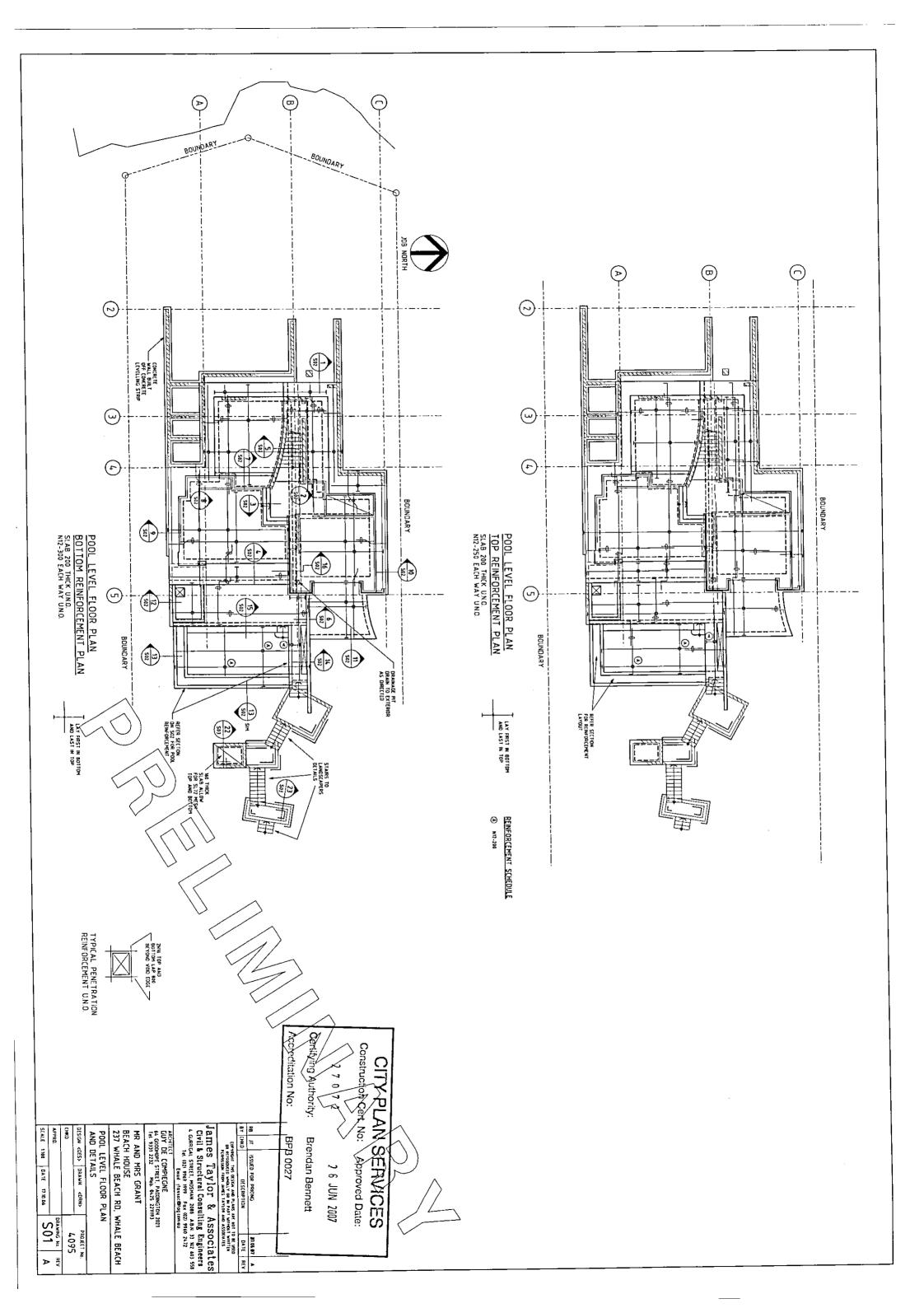
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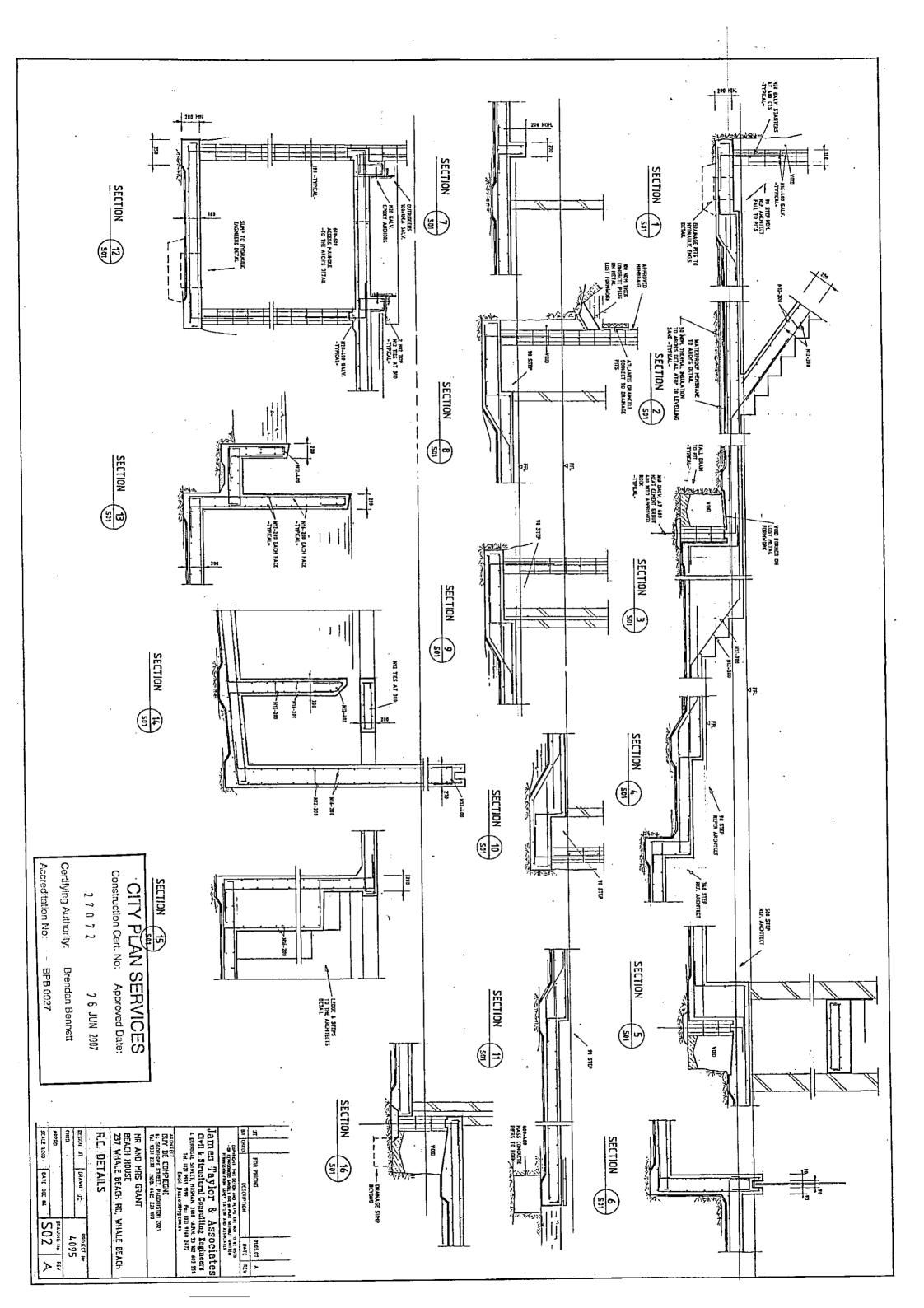
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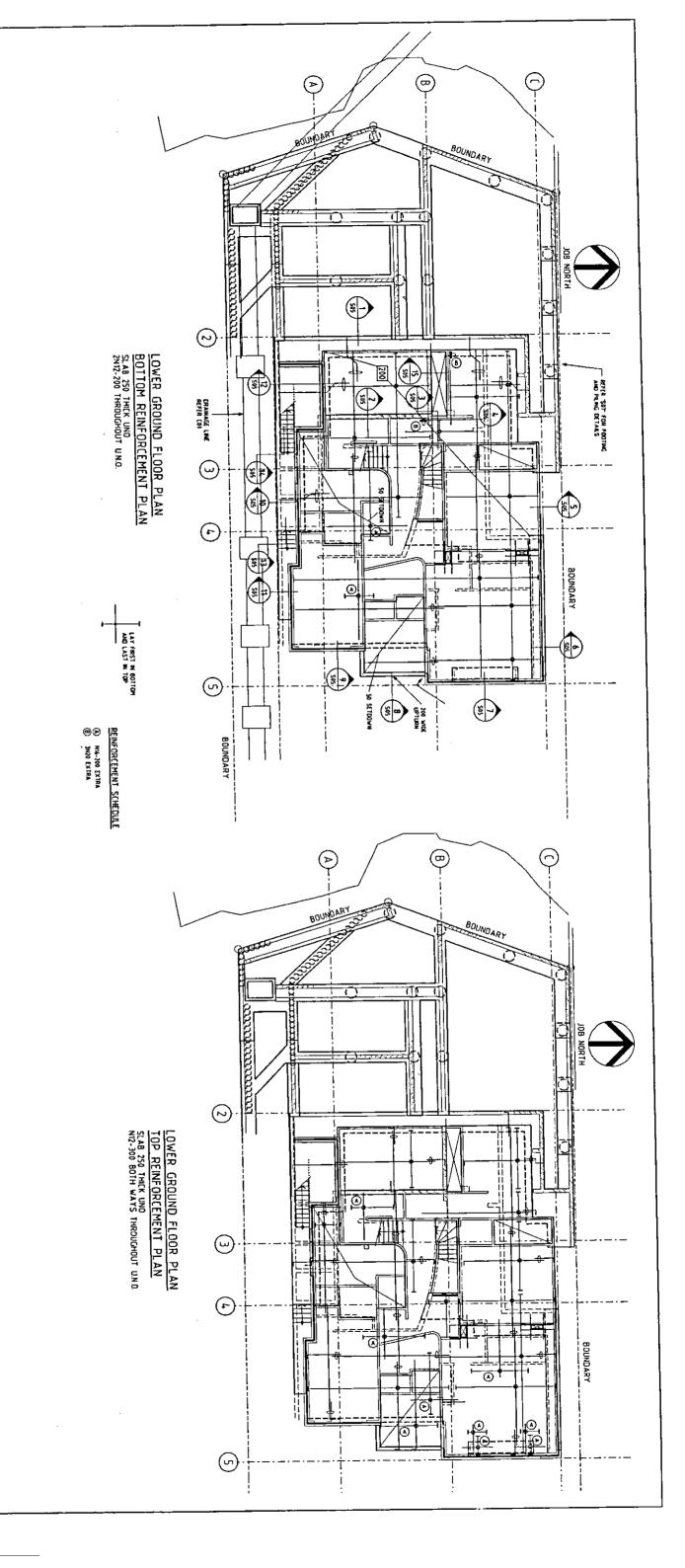
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CITY PLAN SERVICES

Construction Cert. No: Approved Date:

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Accreditation No: Certifying Authority: 3PB 0027 Brendan Bennett

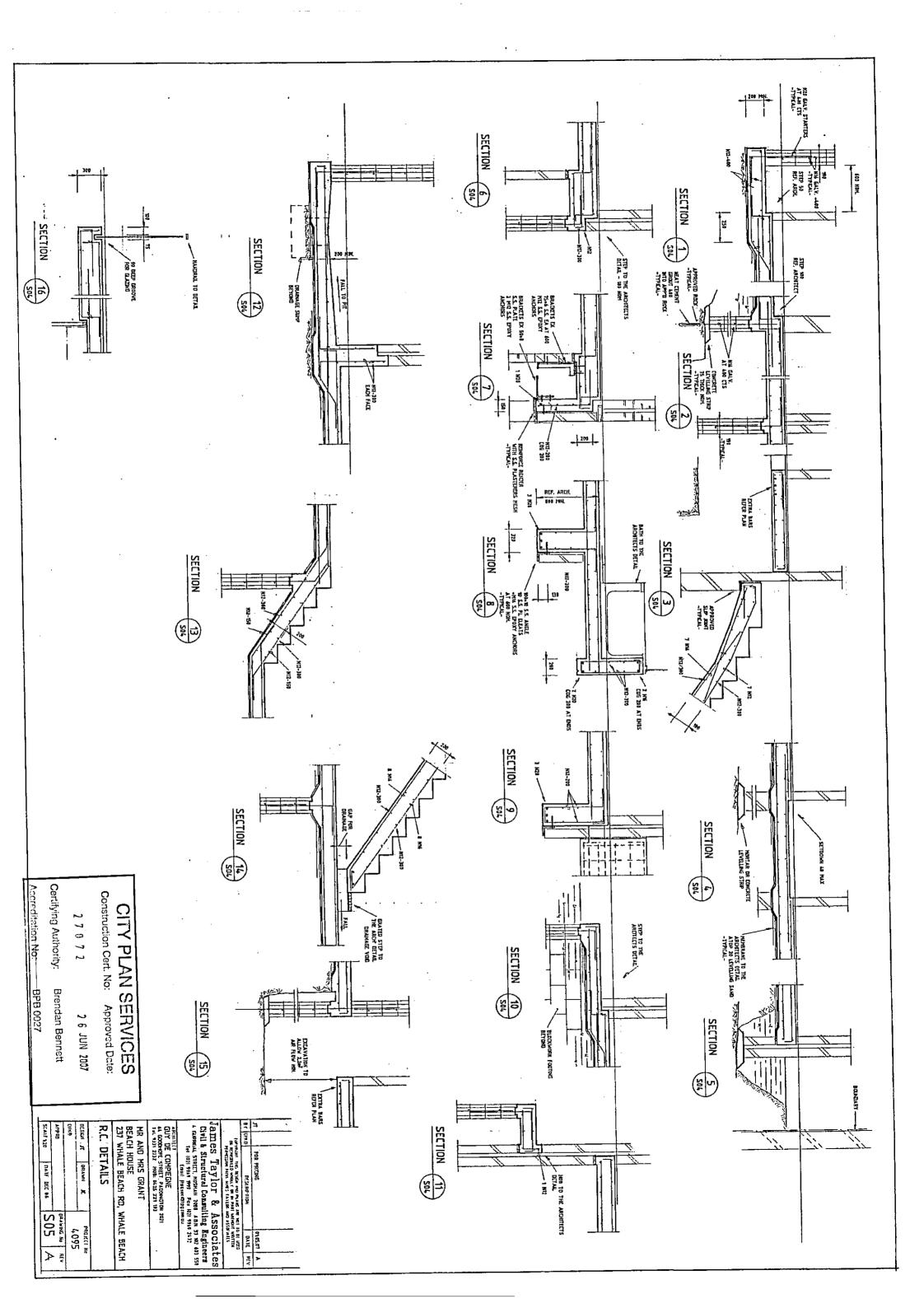
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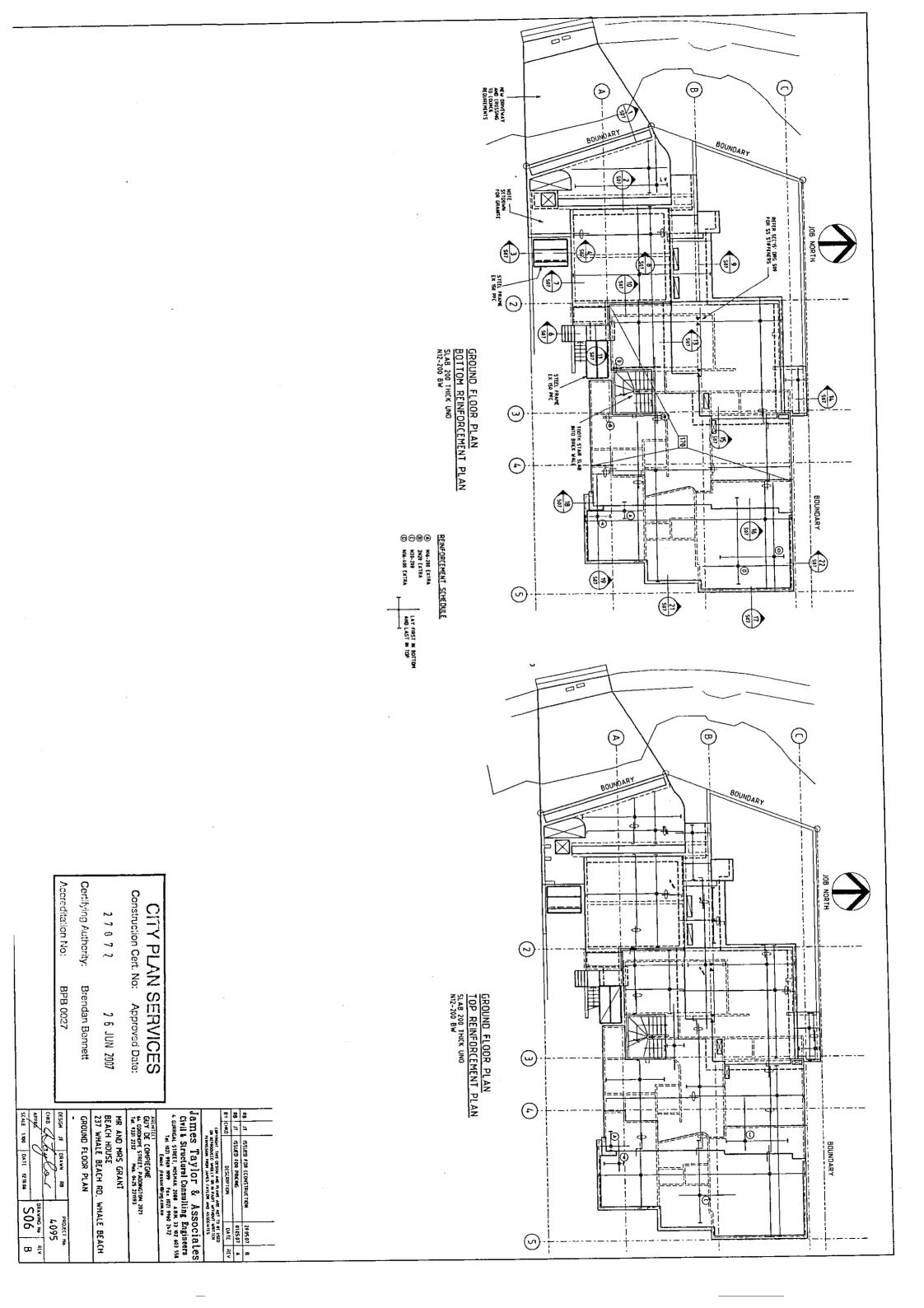
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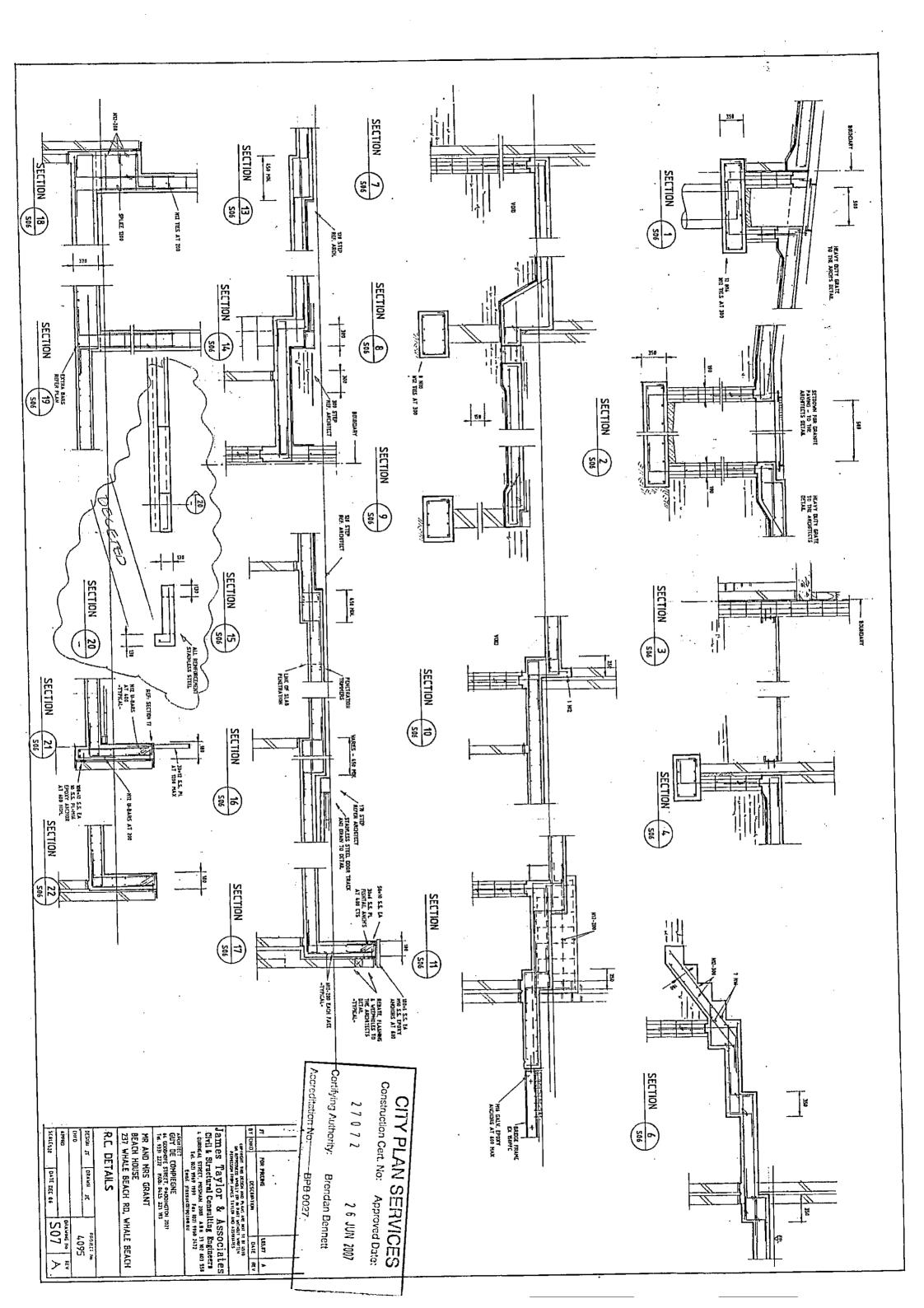
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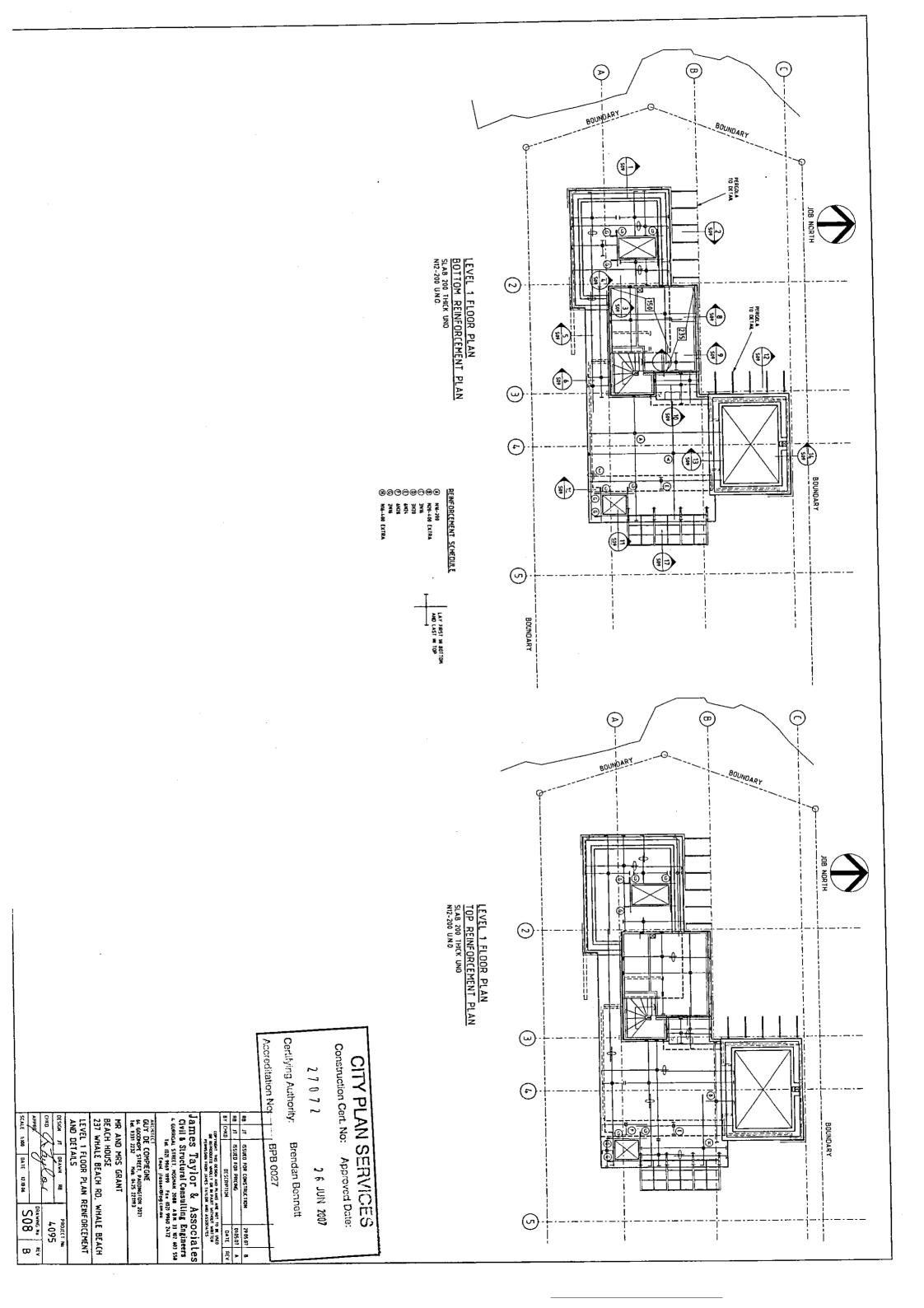
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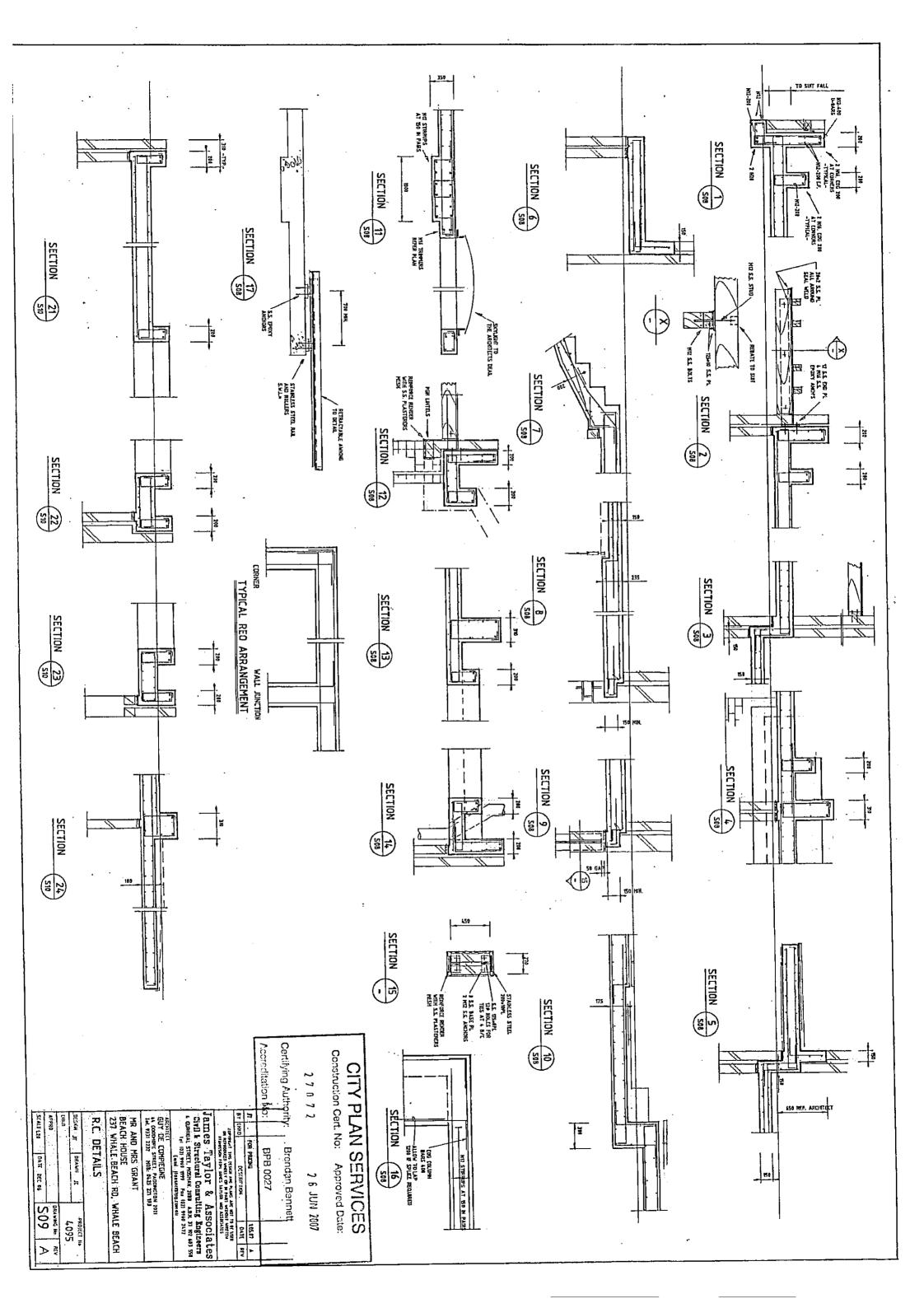
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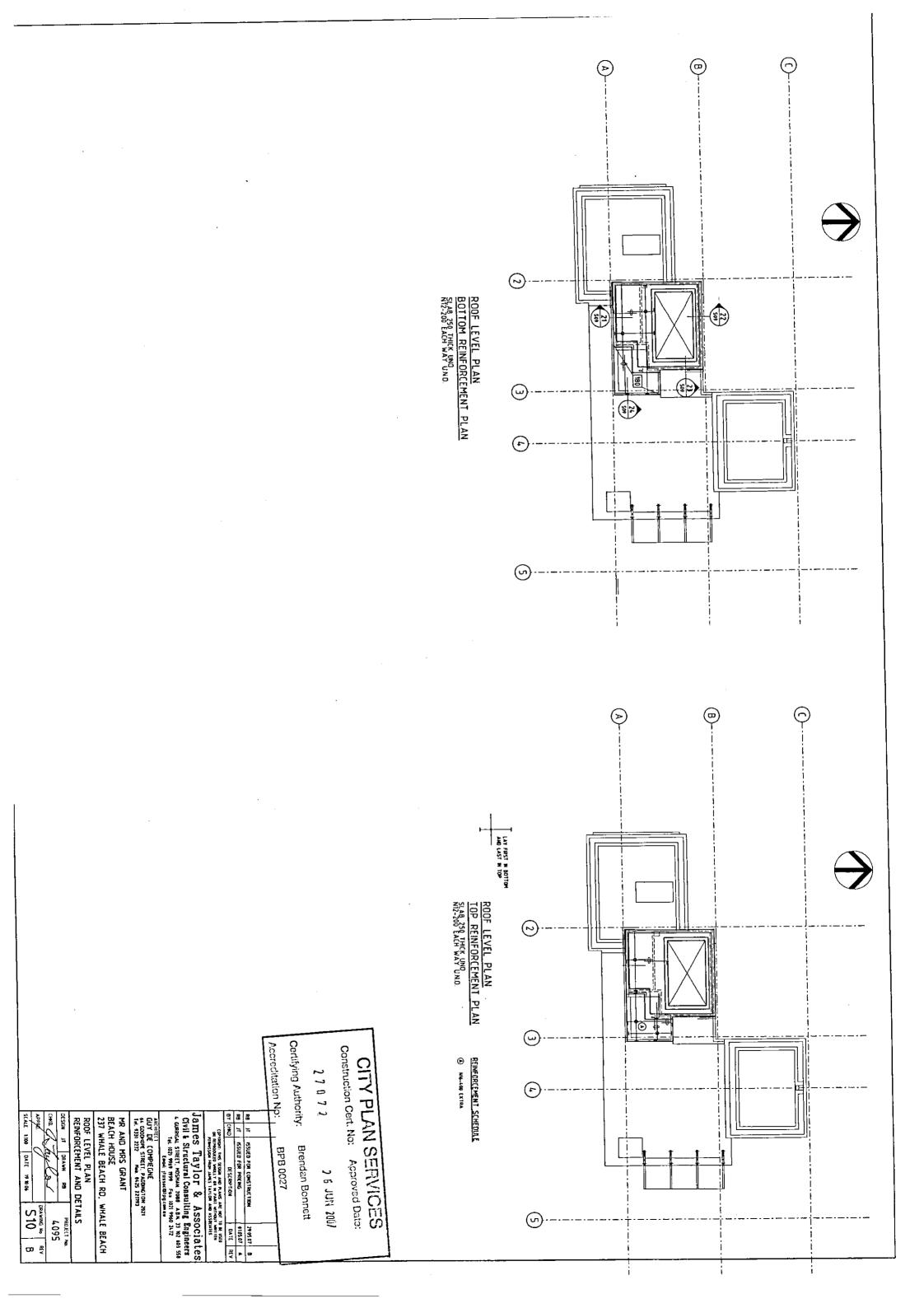


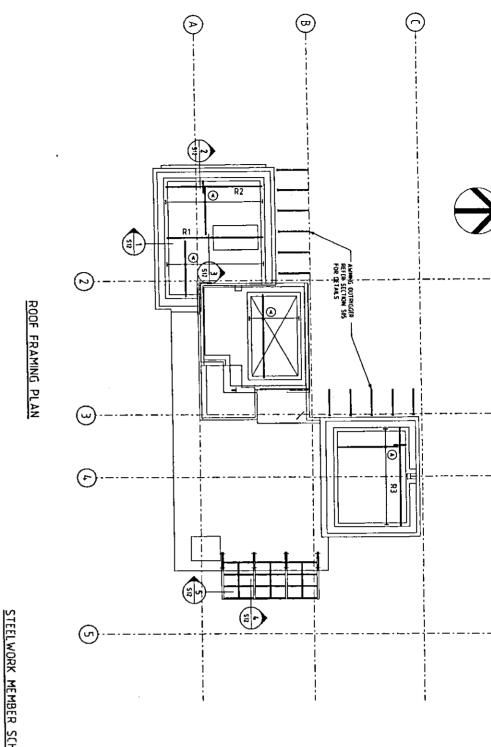












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