



5 January 2011

 Cherie White C/- Rawson Homes
 PO Box 3094
 North Strathfield NSW 2137

Interim Occupation Certificate

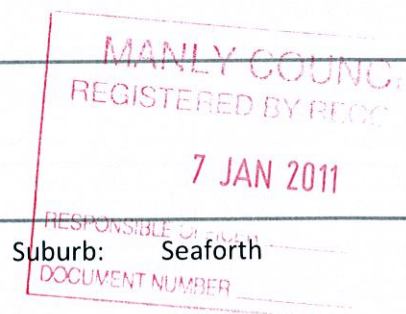
Occupation Certificate No:	2011/0027(I)	Approval Date:	05/01/2011
Complying Development No:	2010/134	Approval Date:	11/03/2010
Council:	Manly		

Applicant/Owner Details

Name: Cherie White C/- Rawson Homes
 Address: PO Box 3094, North Strathfield NSW 2137

Development Particulars

No: 3 Street: Castle Circuit
 Description of Development: Construction of a new dwelling



Record Of Inspections

1. Commencement of building work	Satisfactory
2. Piers prior to pour	Satisfactory
3. Footings prior to pouring of concrete	Satisfactory
4. Timber frame prior to lining	Satisfactory
5. Waterproofing of wet areas	Satisfactory
6. Storm water pipes prior to backfilling	Satisfactory
7. Final Inspection – Issue of Interim Occupation Certificate	Satisfactory

Attachments

- | | |
|--|---|
| <ul style="list-style-type: none"> Smoke Alarm Certificate Pest Control Certificate Waterproofing Certificate Basix Completion Certificate Engineers certificate for piers/slab/frame | <ul style="list-style-type: none"> Engineers certificate for on-site detention Electrical Compliance Certificate Hydraulic Details |
|--|---|

Outstanding Works

The following work is to be carried out prior to the issue of an occupation certificate:

- Complete landscaping works
- Complete driveway

Certification

I, Paul Fitzgerald, as the certifying authority am satisfied that the building will not constitute a hazard to the health or safety of the occupants of the building and a current development consent is in force for the building, or a current complying development/construction certificate has been issued for the building in respect to the plans and specifications for the building and specifications for the building, the building is suitable for its use under the Building Code of Australia and, all the pre-conditions of development consent have been satisfied.

PCA: Paul Fitzgerald

Corporate Accreditation No: ABC 2

PCA Accreditation No: BPP 0119

Accreditation Body: Building Professionals Board

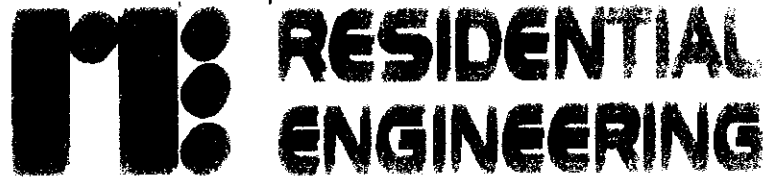
Signature of PCA: _____ Date: 5 January 2011

CERTIFIER

\$30

R 748282

7-1-11



29 April 2010

Rawson Homes
PO Box 3094
North Strathfield NSW 2137

Our Ref: RW236
Your Ref: 113115

White
Lot 14 (3) Castle Circuit, Seaforth

The footings for the slab for the above residence were required to be pierced due to a variation in the bearing capacity of the foundation material.

It is certified that all pier holes were excavated to a firm and uniform rock foundation.

A handwritten signature in black ink, appearing to read 'A W McCarthy'.

A W McCarthy
B Sc (Eng) MIEAust CPEng

11 May 2010

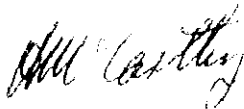
Rawson Homes
PO Box 3094
North Strathfield NSW 2137

Our Ref: RW236
Your Ref: 110115

White
Lot 14 (3) Castle Circuit, Seaforth

We hereby certify that the membrane and reinforcing steel to the slab were all placed to our satisfaction in accordance with the structural details ready for the placing of the concrete and that the completed slab will satisfactorily support all normal domestic loads acting upon it and that the building has been located generally in accordance with the approved site plan.

It should be noted that this certification applies to the structural components of the floor slab and does not warrant the dimensional accuracy of the building.



A W McCarthy
B.Sc (Eng) MIEAust CPEng

4 August 2010

Rawson Homes
PO Box 3094
North Strathfield NSW 2137

Our Ref: RW236
Your Ref: 113115

White
Lot 14 (3) Castle Circuit, Seaforth

This is to certify that an inspection was made of the reinforcing steel to the Bondex suspended slab at the above address on 4 August 2010 and we are satisfied that all have been placed in accordance with the structural details and our instructions ready for the placing of concrete



A W McCarthy

B Sc (Eng) MIEAust CPEng



Rawson Homes Pty Ltd
Sydney Region

Rawson Homes Pty Ltd
Attn: Building Certifiers
Unit 20/10-12 Macquarie Street
Sydney NSW 2000

Phone: 02 9250 1000
Fax: 02 9250 1001

On: 02 9250 1000
Email: certifiers@rawsonhomes.com.au
Website: www.rawsonhomes.com.au

December 14, 2010

Fitzgerald Building Certifiers

Dear Sir/Madam

Re: 3 Castle Circuit Seaforth

Please be advised that the dwelling constructed at the above-mentioned address, complies with the BAS Certificate # 2864905S dated 2nd December 2009.

This includes the installation of wall & ceiling insulation, 15 year gas storage hot water system & 2200L Rain Water Tank.

We note that installation of all electrical requirements as noted in the abovementioned certificate have also been installed by a qualified electrician.

Yours Sincerely,
RAWSON HOMES PTY LTD
Sydney Region

Michelle McKenzie
Customer Service Officer



FIBREFLASH

RAWSON HOMES PTY LIMITED
PO BOX 3094
NORTH STRATHFIELD NSW 1587

21 September 2019

SUBJECT

WATERPROOFING CERTIFICATE
(This Certificate is valid for 12 months from date of issue)

This certifies that **FIBREFLASH Waterproof Solutions** completed installation of the waterproofing to the internal wet areas at the address below, on 1 September 2019.

Lot 14 (No 3) CASTLEVIEW SEAFORD RD 2092

Mr. AGI - install the waterproofing membrane to the shower tray, perimeter walls and floor to all required wet areas.

Mr. AGI - provide waterproofing treatment to shower penetrations, bath over spindle seats and installation of the waterstop at doorways to all required wet areas.

This work was completed in accordance with Tables 2.1, 4.1 and Section 5 of Australian Standard 3740 - 2004 and the Building Code of Australia.

Yours faithfully

Jeff SMITH
Operations Manager
FIBREFLASH Waterproof Solutions
GOLD LICENCE: 177900

Smoke Alarms have been installed in accordance with AS 3786:1993
Part 3.7.2 of Building Code of Australia - Housing Provisions
Tested and Passed by SSI to AS3786 - Listed on SSI Register of Approved Products.

Builder: Ryan Constructions Pty Ltd

Address: 100 - Eucalyptus Circuit
Seaford

Building Application No.:

Clients Name: White

Type of System

☐ New

☐ Addition to Existing

Alarm Details

Manufacturer: Lifesaver

Product Model No.: LFI 3000

Location of Detectors (Wired to Mains Power and Interlinked)

☐ Entry

☐ Bedroom

☐ Other: ☐ Living Room

Installers Details

Name: P&N Rogers Electrical Contractors Pty Ltd

Address: PO Box 3037, Narellan DC - N.S.W. 2567

Phone: (02) 4647 0800

Fax: (02) 4647 0900

Date of Installation & Testing: 11/01/2007

Signature: *[Signature]* *[Signature]*

CERTIFICATE OF COMPLIANCE ELECTRICAL WORK

Customer COPY

CERTIFICATE NO. 1133543

CUSTOMER DETAILS

Name

Address

Suburb

Postcode

INSTALLATION WORK DETAILS

Type of installation

Special

Comments

1. THE ELECTRICITY WORK DESCRIBED IN THIS CERTIFICATE WAS COMPLETED ON 11/01/2018 AT 10:00 AM. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ELECTRICAL CODE OF PRACTICE (ECP) AND THE ELECTRICAL RULES (ER) AS SET OUT IN THE ECP.

2. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

3. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

4. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

5.

6. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

7. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

8. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

9.

10. THE WORK WAS COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ECP AND THE ER.

11.

12.

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35.

DECLARATION

I, the Electrician/Contractor, declare that the work described in this certificate was completed in accordance with the requirements of the ECP and the ER.

Name of DISE (DEU) that the work described in this certificate was completed in accordance with the requirements of the ECP and the ER: **Electrical Contractors Safety Regulation 2008**

Signature of Electrician/Contractor

Signature of DISE (DEU)

Date

Signature of DISE (DEU)

Date

ELECTRICIAN/CONTRACTOR DISE (DEU) REMARKS

NECA

TRI

[illegible]

TRITHOR

NB: a copy of this Report is to be attached to the Future Income Damage Summary (N 001095-00005273 FB)

Installation Date: 17 May 2011

Installation Address: 5 Castle Hill

SEAFORTH, N.S.W. 2092

Bundled Reviewed by James C. Lindholm

Building Description	Residential Building
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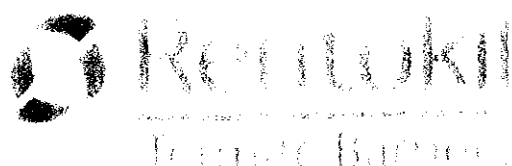
Total Square Metres Installed 0

Unit of Service Penetration is Protected 11

Linear Metres of Building Protected 495

5. Conclusions

installed. Further steps to provide better the paper programme and payment for energy of the residents in building on site.



Submitted by

Tel : 300 855 822

Keywords: *transformation; self-concept; self-esteem; self-efficacy; self-regulation; self-identity; self-actualization; self-fulfillment; self-actualization; self-actualization; self-actualization*

WAYS BETTER TERMITE PROTECTION

TRUCK

NASSERI ASSOCIATES

CIVIL, HYDRAULIC & STRUCTURAL ENGINEERING
Suite 6/1, No. 14 Narraberg Way, Belconnen NSW 2890

P O Box 714 Balgownie NSW 2083

Phone: (02) 9986 3875 Fax: (02) 9986 3877

Mobile: 0476 308 064

FOR RELEASE
Rayson Jones

OR RELEASE
12/3/99

DATE
18 February 2010

To Manly Council.

DESIGN CERTIFICATE

RE: Lot 14 (H/No. 3) Castle Circuit, Seaforth

This is to certify that the hydraulic design from Nasser Associates (on an Easymatch of 1 February 2010 for the above mentioned property) is in accordance with Manly Council's Specification for On Site Stormwater Management for residential dwellings, Basis A certificate and appropriate National Plumbing and Drainage Code and Australian Standard AS 3500.3.

If you require further information on an above matters, please contact the undersigned on the above telephone numbers.

Yours faithfully



J. NASSERI
B. Eng. (Hons)
SPERCP Eng.
Accredited Engineer

TAX INVOICE

NASSERI ASSOCIATES

PLANNING, DESIGN & STRUCTURAL ENGINEERING
Suite 51 No. 14 Narabang Way, Belrose NSW 2085
Tel: (02) 9496 1400 Fax: (02) 9496 1401
Mobile: (02) 9496 1875 Email: info@nasseri.com.au
ABN: 42941547139

Invoice D20100

DATE: 18 February 2010

To: Rawson Homes Pty Ltd
P O Box 3094
North Strathfield, NSW 2136

OFFERED TO: Ms Alicia Trimbole (Rawson Homes)
Purchase Order No. 4500051707

DESCRIPTION: Hydraulic Design & Drainage Plans

ADDRESS: Lot 14 (P/N) of Castle Creek, Seaford

Details: Hydraulic design including:
Design Certificate, Aboveground Rainwater Tanks Details,
Elevations Details, Overland Flow Path Details, O/SO Calculations,
O/SO Taps Details, Driveway Long Section Details
& Stormwater System

\$1,700.00

AT

\$170.00

TOTAL AMOUNT PAYABLE

\$1,870.00

IMPORTANT NOTE:

This is a 14 days account. A cheque for the above amount payable to Nasser Associates should be made by 4 March 2010 and send to Suite 51 No. 14 Narabang Way, Belrose NSW 2085

THANK YOU

Hydraulic Design
Including OSD Calculations,
Underground Detention Tank Details,
Aboveground Rainwater Tanks Details,
Driveway Long-Section Details,
Overland Flow Path Details,
Elevations Details
and
Stormwater Systems
for
Proposed Single Residential Development at

Lot 14, D.P. 1112545,
(H/No. 3) Castle Circuit,
SEAFORTH

18 February 2010

Manly Council
Our Job Number: D2339

Nasseri Associates
Civil, Hydraulic and Structural Engineering
Suite 51, No. 14 Narabang Way, Belrose NSW 2085
P O Box 714, Balgowlah NSW 2093
Phone: (02) 9986 3875
Mobile: 0410 308 064
Fax: (02) 9986 3876
Email: nasseriassociates@bigpond.com
Web Site: www.nasseriassociates.com.au

Table of Content	Sheet
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On-Site Detention Calculations (H/SAX)	
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<u>Hydraulic Details:</u>	
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1. Notes, Calculation & Pit Details	1
2. Drainage Plan (1 in 200)	2
3. On-Site Detention Tank Details (Plan View)	3
4. On-Site Detention Tank Details (Section D)	4
5. Elevation A & RW T1 Details	5
6. Elevation B & RW T2 Details	6
7. Driveway Long-Section C	7

IMPORTANT NOTE:

The following hydraulic plans should be read in conjunction with:

1. Architectural plans from Rawson Homes job no. J001139 revision B dated 21 January 2010 (Phone: (02) 9764 6442).
2. Manly Council policy on Stormwater Requirements for residential developments and BASIX Requirements.
3. Discussion with Council's Engineer dated 12 February 2010 in regard to the stormwater issues for the development.


```
end % Add to output table the new data
end
```

```
% Add values of age from 1 to 100 to the
```

```
% Age not defined for OSs
```

```
OSs_row = 1:2
```

```
for i = 1:100
```

```
OSs_row(i) =
```

```
Age
```

```
0 0 0 0
```

```
0.1 0.0000 0.8% 0.0023 0
```

```
0.2 0.0000 0.70% 0.0033 0
```

```
0.3 0.0000 0.55% 0.0044 0
```

```
0.4 0.0000 0.40% 0.0058 0.0
```

```
for
```

```
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
% Dummy Reach
```

```
OSs_row = 1:2
```

```
1 1 1 1 0 1
```

```
10 0 0 0 0
```

```
0 0 0 0 0 0 0
```

```
% Age not defined for OSs
```

```
Par_row = 2
```

```
1 1 1 1 0
```

```
10 0 0 0 0
```

```
0 00 0 00 0 8% 0 00 00 0 0 0 0 0 0 0
```

```
Add Par to OSs
```

```
% Dummy Reach
```

```
OSs_row = 1:2
```

```
1 1 1 1 0
```

```
10 0 0 0 0
```

```
0 0 0 0 0 0 0
```

```
end
```


PROPOSED 1:100,000 year
 (The following lines give branch and reach names.)

GET TO NEXT CASTED POINT, SCATTERED
 PEAK FLOWS AMONG ROUNDS FROM 11 RAINFALL PATTERNS
 (The following lines give branch and reach names.)
 Maximum surface flow arriving at an entry point or pit.
 Maximum flow in the pit before routing through downstream reach.
 Maximum surface overflow and total flows to this point (m³/s).
 Pipe Diameter or Normal Depth (open sections) (mm) & Capacity (m³/s).
 Other information is given for non-circular reaches.
 Refer to the program code for details.
 END AAA 013 013 000 011 181 124
 END

PROPOSED 1:100,000 year

GET TO NEXT CASTED POINT, SCATTERED
 PEAK FLOWS AMONG ROUNDS FROM 11 RAINFALL PATTERNS
 (The following lines give branch and reach names.)
 Maximum surface flow arriving at an entry point or pit.
 Maximum flow in the pit before routing through downstream reach.
 Maximum surface overflow and total flows to this point (m³/s).
 Pipe Diameter or Normal Depth (open sections) (mm) & Capacity (m³/s).
 Other information is given for non-circular reaches.
 Refer to the program code for details.
 END BAA 013 000 026 013 181 000
 END BAA 026 013 000 011 181 124
 END BAA 001 013 000 001 181 124
 END BAA 000 013 000 011 181 124
 END

GENERAL NOTES

1. ALL WORK TO BE IN ACCORDANCE WITH MAINLY COUNCIL STANDARD SPECIFICATION AND THE SUPERVISING ENGINEER'S SATISFACTION

THESE PLANS TO BE PLACED IN CONFORMANCE WITH AN ELECTRICAL PLANS FROM RAWSON HOMES CITY LTD JOB No. 1001199 REVISION DATED 20 JANUARY 2010 (PHONE 02 95761 6143)

2. ALL STORMWATER PIPES TO BE 100 DIA UPVC UNLESS NOTED OTHERWISE. PIPES UNDER DRIVEWAY TO BE TOWER GRADE

3. DEPTH AND LOCATION OF SLEWER & SERVICES TO BE CONFIRMED PRIOR TO COMMENCEMENT OF DRAINAGE WORKS

4. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION

5. EXISTING FINISHED GROUND LEVEL ARE SHOWN AWAY FROM THE DEVELOPMENT & INTO THE YARD DUMP AS SHOWN ON THE ATTACHED DRAINAGE PLAN

6. HYDRAULIC PLAN ARE CHECKED BY COUNCIL APPROVAL

CALCULATIONS

TOTAL SITE AREA 1000sqm
 TOTAL ROOF AREA AND RWT 1000sqm
 TOTAL EXISTING IMPERVIOUS AREA 1000sqm
 TOTAL PROPOSED IMPERVIOUS AREA 1000sqm
 INCLUDING ROOF GARAGE DRIVEWAYS & PAVED AREA

150 SQUARE
 GRATED PIT
 (MEDIUM DUTY)

1:1 X 2

100 DIA
 INLET

100 DIA
 OUTLET

ENSURE NO WATER
 PONDAGE AT THE
 BASE OF THE PIT

DETAIL 1
 TYPICAL PIT DETAILS
 SCALE 1:20

NASSERI ASSOCIATES

CIVIL, HYDRAULIC & STRUCTURAL ENGINEERING
 SUITE 51, No 14 NARAHANG WAY, BELROSE 2066
 PO BOX 714, BALGOWLAH, NSW 2093
 TEL (02) 9986 3875
 FAX (02) 9986 3876
 MOB 0410 308 064
 EMAIL: nasseriassociates@bigpond.com

NASSERI
 RE: KIRKLAND
 NPER: CPEng
 12 Feb 2010

SYMBOLS & NOTATIONS

STORMWATER LINE
 DOWNPIPE
 100 DIA YARD SUMP
 225x100 GRATED ROY TRAP
 EXISTING
 OVER LEVEL (PPE) PPE

FINISHED SURFACE LEVEL
 FINISHED FLOOR LEVEL
 FINISHED PLATFORM LEVEL
 STORMWATER CONTROL BARRIERS
 PROPOSED BOUNDARY
 SLEWER

ARROWMENTS

CLIENT: RAWSON HOMES (MRS WHITE)
 101/14, (H/NO 3) CASTLE CIRCUIT, SEAFORTH

DESIGNED BY: DRAWN BY: CHECKED BY: SCALE: AS SHOWN

HYDRAULIC DETAILS

NOTES: CALCULATIONS & PIT DETAILS

DESIGNED BY: ENG/RAWSON DRAWN BY: JCR No. 02339 SHEET No. 1

OSD CALCULATIONS

MANLY COUNCIL REQUIRES THE FOLLOWING

A DETAILED STORMWATER MANAGEMENT PLAN SHALL BE PREPARED TO FULLY COMPLY WITH COUNCIL'S SPECIFICATIONS FOR ON SITE STORMWATER MANAGEMENT (2007) AND SHALL BE SUBMITTED WITH THE CONSTRUCTION CERTIFICATE APPLICATION

IT IS A NEW ALLOTMENT CREATED FROM A GREENFIELDS SUBDIVISION. IN THIS CASE, AN OSD SYSTEM SHALL BE REQUIRED FOR ANY DEVELOPMENT ON THE ALLOTMENT USING HESAX TO CALCULATE OSD VOLUME (REFER TO OSD CALCULATION ATTACHED)

VOLUME REQUIRED 15.40 m³ ORIFICE 70 mm
 EXISTING PSD 15.1 sec PROPOSED PSD 15.1 sec
 EXISTING PSD_{min} 13.1 sec PROPOSED PSD_{min} 13.1 sec

- *PROVIDED 10 000 LITRES CAPACITY RWT FOR RETENTION SYSTEM
- *PROVIDED 5.40m³ UNDERGROUND OSD TANK FOR DETENTION SYSTEM

BASIN REQUIREMENT

12200 LITRES CAPACITY RAINWATER TANK FOR 80% OF ROOF AREA
 PROVIDED 10 000 LITRES CAPACITY RWT FOR TOTAL ROOF AREA

IMPORTANT NOTES

1. DISCUSS THE STORMWATER ISSUE WITH COUNCIL ENGINEER ON 12 FEBRUARY 2010. THE SITE REQUIRED OSD SYSTEM GREENFIELDS AREA AND RAINWATER TANK DESIGN. OSD CALCULATION CAN BE DONE BY USING HESAX PROGRAM. COUNCIL AGREED THAT THE RAINWATER TANK VOLUME CAN BE FULLY DEDUCTED FROM THE TOTAL OSD STORAGE

TWO ABOVEGROUND RAINWATER TANKS WITH TOTAL CAPACITY OF 10 000 LITRES (5000 LITRES EACH) HAVE BEEN PLACED ON BOTH SIDES OF DWELLING TO COLLECT ALL ROOF WATER ONLY. THE REST OF WATER WILL BE USED FOR FLUSHING TO NURSERY & IRRIGATION SYSTEMS. 100 DIA TOWER GRADE WRELOW FROM TOP OF EACH RWT TO BE CONNECTED TO STORMWATER LINE PRIOR TO DISCHARGING TO DETENTION TANK AT 1% MIN FALL SHOWN TO DRAINAGE PLAN ON SHEET NO. 1

AN UNDERGROUND ON SITE DETENTION TANK HAS BEEN DESIGNED UNDER THE PROPOSED DRIVEWAY TO COLLECT STORMWATER & OVERFLOW FROM TOP OF THE RWT PRIOR TO DISCHARGING TO STREET GUTTER VIA 100 DIA SEWER GRADE OUTLET AT 1% MIN FALL TO FRONT BOUNDARY. CHANGE TO EXISTING 0.6% 100 DIA DIPPED GUTTER UNDER FOOTPATH AREA DRAIN TO DETENTION TANK DETAIL ON SHEET NO. 1 & 2

2. PIPES ARE PROTECTIVE PRIOR TO ANY CHANGE. REFER TO ENGINEER

3. PRIOR TO BACKFILLING STORMWATER LINE AND TANKING, CONTACT ENGINEER FOR BACKFILL OF DETENTION TANK. CONTACT ENGINEER FOR AN INSPECTION

4. WORK AS EXCEPTED PLAN & COMPLETION OF SITE SHALL BE CARRIED AFTER COMPLETION OF ALL HYDRAULIC WORKS

LOT 14
600.60 m2

ELEVATION A

100 DIA SEWER
GRADE TO TO
DEFENTION TANK
AT 1% MIN FALL
CONNECTION MUST
BE ABOVE FIVE

100 DIA GRADED PIPE
TO TAKE ROOF WATER
TO TOP OF RW2
FALL DOWNWARD TO
BE 1% MIN FALL

RW2
1000 LITRE CAPACITY ABOVEGROUND
RAINWATER TANK (REFER TO
ELEVATION A ON SHEET NO 1)

100 DIA SEWER GRADE
TO TAKE ROOF WATER
TO TOP OF RW2
FALL DOWNWARD TO
BE 1% MIN FALL

CREATE A SWALE OR EARTH
MOUND TO DIVERTE SURFACE
WATER TO THE LAND FRONT
OF THE PROPERTY INTO DRAIN
BASIN (REFER TO DETAIL 2)

UNDERGROUND ON SITE
DEFENTION TANK (REFER
TO SHEET No 1) FOR
DETAILS

100 DIA UPVC
TO 1% MIN FALL
AT 1% MIN FALL

100 DIA YARD
PUMP OR 250
SQUARE GRATED
(SEE DETAIL 2)

ENSURE NO WATER
PONDAGE OCCURS
AROUND DWELLING
SLOPE FINISHED
GROUND LEVEL
TOWARDS YARD PUMP
OR SITE (AS SHOWN)

CREATE A SWALE OR
EARTH MOUND OR
DISH DRAIN TO DIVERTE
SURFACE WATER TO
SITE AND FRONT OF
THE PROPERTY
(REFER TO DETAIL 2)

100 DIA SEWER GRADE
TO TAKE ROOF WATER
TO TOP OF RW2
FALL DOWNWARD TO
BE 1% MIN FALL

RW2
1000 LITRE CAPACITY ABOVEGROUND
RAINWATER TANK (REFER TO
ELEVATION B ON SHEET NO 2)

100 DIA SEWER GRADE
TO TAKE ROOF WATER
TO TOP OF RW2
FALL DOWNWARD TO
BE 1% MIN FALL

100 OR 150

DETAIL 2

100 OR 300mm WIDE EARTH MOUND OR DISH DRAIN
N.T.S

ELEVATION B

DRAINAGE PLAN
SCALE 1:200

HYDRAULIC DETAILS

DRAINAGE PLAN

SHEET No 2

LEGEND

100 DIA UPVC OR SEWER GRADE FOR SURFACE WATER DRAINAGE
100 DIA SEWER GRADE FOR ROOF WATER DRAINAGE ONLY

SYMBOLS & NOTATIONS

STORMWATER LINES
DOWNPIPE
100 DIA YARD PUMP
225x100 GRATED ROY DRAIN
INVERT LEVEL (PDE / FFL)
FINISHED SURFACE LEVEL
FINISHED FLOOR LEVEL
FINISHED PLATFORM LEVEL
SEDIMENT CONTROL BARRIER
PROPOSED BOUNDARY
SEWER

CLIENT: RAWSON HOMES (MRS WHITE)
LOT 14, (H/No.3) CASTLE CIRCUIT, SEAFORTH
DESIGNED: HA
DRAWN: HA
CHECKED: JN
MADE AS SHOWN

NASSERI ASSOCIATES
CIVIL, HYDRAULIC & STRUCTURAL ENGINEERING
SUITE 51, No 14 NARABANG WAY, BELROSE 2065
PO BOX 714, BALGOWLAH, NSW 2093
TEL (02) 9986 3875
FAX (02) 9986 3876
MOB 0410 308 064
EMAIL: nasseriassociates@bigpond.com

NASSERI
RE: FRAUST
NPER, UPENG
15 Feb. 2010

100 DIA SEWER
GRADE FROM P.T. 1
(CONNECTION MUST
BE ABOVE TWB R.C. 100)

100 DIA SEWER
GRADE FROM P.T. 1
(CONNECTION MUST
BE ABOVE TWB R.C. 100)

N/S 400
PACHTWAY
(TYPICAL)

LINE OF TEMP
PROPS FOR BONDER

SPAN

100 DIA
BONDER

100 DIA SEWER
GRADE FROM P.T. 2
(CONNECTION MUST
BE ABOVE TWB R.C. 100)

N/S 400
PACHTWAY
(TYPICAL)

100 DIA GRATE
INTERLOCK WITH
HEAVY DUTY GRATE
LARGED LOCKED
(MAKE GOOD)

100 DIA SEWER GRADE
OUTLET AT 1% MIN FALL
UP TO FRONT BOUNDARY
CHANGE TO 150x100x50
RHS HOT DIPPED GALV
UNDER FOOTPATH AREA
(MAKE GOOD)

TOTAL OSD VOLUME PROVIDED
(3.60 x 3.00 x 0.15) DEPTH
(1.8 x 0.15) x 0.15 DEPTH
(0.23 m³) (0.10 m³) (0.15 m³)

N/S 400
PACHTWAY
(TYPICAL)

ON SITE DETENTION TANK (PLAN VIEW)

SCALE 1:20

NASSERI ASSOCIATES

CIVIL, HYDRAULIC & STRUCTURAL ENGINEERING
SUITE 51, No 14 NARABANG WAY BELROSE 2085
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J NASSERI
RE. FRAUST
NPER. CPENG
P. TEL. 210.

SYMBOLS & NOTATIONS

100mm WATER LINE	20 FINISHED SURFACE LEVEL
DOWNPIPE	25 FINISHED FLOOR LEVEL
100 DIA YARD SUMP	26 FINISHED PLATFORM LEVEL
250x100 GRATED ROY DRAIN	SEWAGE CONTROL BARRIER
100 DIA SEWER (100 x 100)	PROPOSED BOUNDARY
	SEWER

CLIENT: RAWSON HOMES (MRS WHITE)
101 14, (H/No.3) CASTLE CIRCUIT, SEAFORTH

HYDRAULIC DETAILS

ON-SITE DETENTION TANK (PLAN VIEW)

CAL REF: ENG/RAWSON JOB No. D2339 SHEET No. 3

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SHEET NO. 4

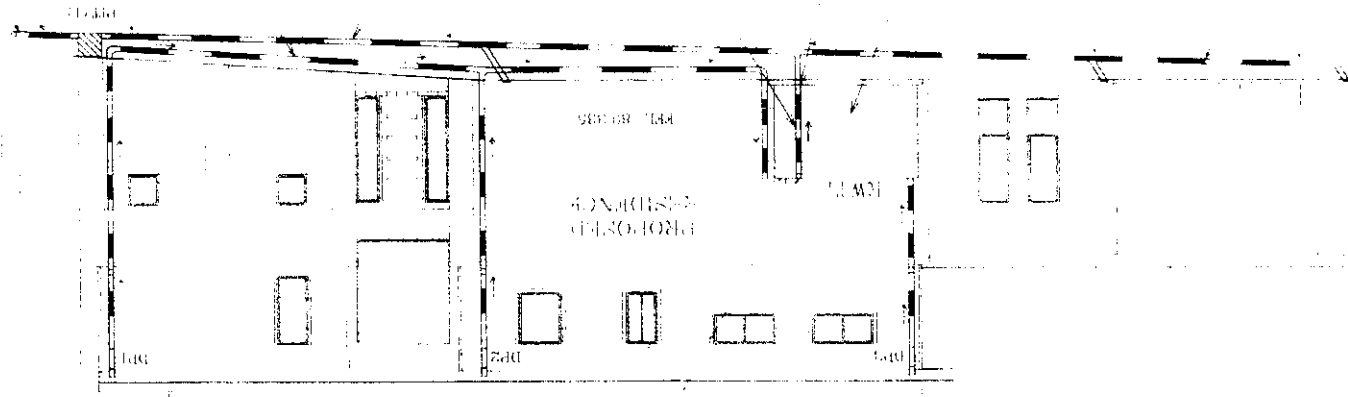
IMPORTANT NOTE:

RAINWATER TANK IS FROM THE ROOF OF WATER PLY LTD. ON SIMBAR

TO THE NORTH

A FIRST FLOOR DEBRIS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION SHALL BE FITTED TO THE SYSTEM TO DIVERT THE FIRST DRAIN OF RUN OFF FROM THE AREA DRAINING AWAY FROM THE STORAGE TANK (0.05 x 1.00)

EXISTING
GROUND
SURFACE



LINE OF OVERFLOW
FROM TOP OF RWT
AT RL 64.56 (APPROX)

100 DIA VARD
SUM ON 250
TO 117.1 A
17 MIN FALL

100 DIA VARD
SUM ON 250
TO 117.1 A
17 MIN FALL

5000 LITRES CAPACITY
RWT x 1100 x 1100
RWT TO BE CONNECTED
TO STORMWATER LINE
AT 17 MIN FALL

100 DIA 1100
TO 117.1 A
17 MIN FALL

100 DIA SEWER
GRADE TO TANK
ROOF WATER ONLY
FALL DOWNPipes TO
TO TOP OF RWT
BE FULLY SEALED

100 DIA SEWER
TO DETENTION TANK
AT 17 MIN FALL
(CONNECTION MUST
BE ABOVE TWT RWL)

ELEVATION A
SCALE 1:100

SYMBOLS & NOTATIONS

- 1. FINISHED FLOOR LEVEL
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- 99. FINISHED FLOOR LEVEL
- 100. FINISHED FLOOR LEVEL

CLIENT: RAWSON HOMES (MRS WHITE)
LOT 14, (H/No 5) CASTLE CIRCUIT, STAFFORD

ELEVATION (A) & RWT DETAILS

HYDRAULIC DETAILS

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SHEET NO: 5

