

Building Sustainability Index www.basix.nsw.gov.au

# Single Dwelling

Certificate number: 751079S\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Friday, 20 July 2018

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary		
Project name	25635_02	
Street address	42-48 St Marys Roa	d Berkshire Park 2765
Local Government Area	Penrith City Council	
Plan type and plan number	deposited 983814	
Lot no.	59	
Section no.	-	
Project type	separate dwelling ho	use
No. of bedrooms	4	
Project score		
Water	<b>✓</b> 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	<b>✓</b> 50	Target 50

### **Certificate Prepared by**

Name / Company Name: Coral Homes Pty. Ltd.

ABN (if applicable): 440 110 329 29

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# **Description of project**

Project address	
Project name	25635_02
Street address	42-48 St Marys Road Berkshire Park 2765
Local Government Area	Penrith City Council
Plan type and plan number	Deposited Plan 983814
Lot no.	59
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	4
Site details	
Site area (m²)	16181
Roof area (m²)	323
Conditioned floor area (m2)	204.54
Unconditioned floor area (m2)	14.32
Total area of garden and lawn (m2)	250

Assessor details and thermal loads			
Assessor number	BDAV/16/1757		
Certificate number	0002871614		
Climate zone	28		
Area adjusted cooling load (MJ/m².year)	30		
Area adjusted heating load (MJ/m².year)	44		
Project score			
Water	<b>✓</b> 41	Target 40	
Thermal Comfort	✓ Pass	Target Pass	
Energy	<b>✓</b> 50	Target 50	

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### **Schedule of BASIX commitments**

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Fixtures	'		
The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.		~	~
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		~	V
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.		<b>~</b>	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 5000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	<b>~</b>	V
The applicant must configure the rainwater tank to collect rain runoff from at least 150 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	~
The applicant must connect the rainwater tank to:			
all toilets in the development		•	V
the cold water tap that supplies each clothes washer in the development		<b>✓</b>	V
<ul> <li>at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.)</li> </ul>		<b>✓</b>	~

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method	·		
The applicant must attach the certificate referred to under "Assessor Details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for an occupation certificate for the proposed development.			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX certificate, including the Cooling and Heating loads shown on the front page of this certificate.			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.	•	~	~
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	~
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	~	~	V

Floor and wall construction	Area
floor - concrete slab on ground	All or part of floor area square metres

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: solar (electric boosted) with a performance of 36 to 40 STCs or better.	~	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	V
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	V
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a		<b>~</b>	~
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>✓</b>	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		<b>✓</b>	~
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 5 of the bedrooms / study;		<b>~</b>	-
at least 4 of the living / dining rooms;		<b>~</b>	V
• the kitchen;			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets;		~	~
the laundry;		~	~
• all hallways;		~	-
Natural lighting			
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	V
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		J	

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#### Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate (either interim or final) for the development may be issued.

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Building Sustainability Index www.basix.nsw.gov.au

# Single Dwelling

Certificate number: 939375S

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Monday, 06 August 2018

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary	
Project name	42-48 St Marys Road
Street address	42-48 St Marys Road Berkshire Park 2765
Local Government Area	Penrith City Council
Plan type and plan number	deposited 983814
Lot no.	59
Section no.	-
Project type	separate dwelling house
No. of bedrooms	3
Project score	
Water	✓ 59 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	✓ 55 Target 50

### **Certificate Prepared by**

Name / Company Name: Master Drafting

ABN (if applicable): 66113739716

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# **Description of project**

Project address	
Project name	42-48 St Marys Road
Street address	42-48 St Marys Road Berkshire Park 2765
Local Government Area	Penrith City Council
Plan type and plan number	Deposited Plan 983814
Lot no.	59
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	3
Site details	
Site area (m²)	288
Roof area (m²)	208
Conditioned floor area (m2)	70.68
Unconditioned floor area (m2)	7.98
Total area of garden and lawn (m2)	80

Assessor details and thermal loads			
Assessor number	n/a		
Certificate number	n/a		
Climate zone	n/a		
Area adjusted cooling load (MJ/m².year)	n/a		
Area adjusted heating load (MJ/m².year)	n/a		
Project score			
Water	<b>У</b> 59	Target 40	
Thermal Comfort	✓ Pass	Target Pass	
Energy	<b>✓</b> 55	Target 50	

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### **Schedule of BASIX commitments**

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 80 square metres of the site.	~	<b>~</b>	
Fixtures			
The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.		~	V
The applicant must install a toilet flushing system with a minimum rating of 3 star in each toilet in the development.		<b>~</b>	~
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 5000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	V
The applicant must configure the rainwater tank to collect rain runoff from at least 207.6 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	V
The applicant must connect the rainwater tank to:			
all toilets in the development		<b>~</b>	-
the cold water tap that supplies each clothes washer in the development		~	~
<ul> <li>at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.)</li> </ul>		<b>~</b>	V
all hot water systems in the development		•	V

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all indoor cold water taps (not including taps that supply clothes washers) in the development		~	~

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must be a Class 1 dwelling according to the Building Code of Australia, and must not have more than 2 storeys.	V	~	~
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	~	~	V
The dwelling must not contain third level habitable attic room.	~	~	~
Floor, walls and ceiling/roof			
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	V	~	-

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.20 (or 2.60 including construction)	
ceiling and roof - flat ceiling / pitched roof	ceiling: 2.45 (up), roof: foil backed blanket (75 mm)	unventilated; dark (solar absorptance > 0.70)

Note	Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.
Note	• In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, glazed doors and skylights			
The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door.	~	~	~
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	~	~
The following requirements must also be satisfied in relation to each window and glazed door:	~	~	~
<ul> <li>For the following glass and frame types, the certifier check can be performed by visual inspection.</li> </ul>			-
- Aluminium single clear			
- Aluminium double (air) clear			
- Timber/uPVC/fibreglass single clear			
- Timber/uPVC/fibreglass double (air) clear			

0 1	1800	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
0 1	1800	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
40 1	1500	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
0 1	1800	aluminium, single, clear	verandah 1850 mm, 1200 mm above base of window or glazed door	not overshadowed
0 6	300	aluminium, single, clear	none	not overshadowed
0 40	) 1	1800	1800 aluminium, single, clear  1500 aluminium, single, clear  1800 aluminium, single, clear	of window or glazed door  1800 aluminium, single, clear eave 450 mm, 300 mm above head of window or glazed door  1500 aluminium, single, clear eave 450 mm, 300 mm above head of window or glazed door  1800 aluminium, single, clear verandah 1850 mm, 1200 mm above base of window or glazed door

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading (Dimension within 10%)	Overshadowing
W01	900	1800	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
W02	600	600	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: electric instantaneous.	~	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: ceiling fans + 1-phase airconditioning; Energy rating: 6 Star		~	~
The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		~	V
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 6 Star		~	~
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	V
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off		<b>✓</b>	~
Kitchen: no mechanical ventilation (ie. natural); Operation control: n/a		<b>~</b>	V
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>~</b>	~
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 1 of the bedrooms / study;		<b>~</b>	V
at least 1 of the living / dining rooms;		~	V
• the kitchen;			U

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets;		~	~
• the laundry;		~	V
all hallways;		~	V
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	-	~	~
The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting.	-	<b>~</b>	V
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 1.5 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	~	~
Other			
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		~	

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#### Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a 🥥 in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a 🥥 in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a 🤳 in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate(either interim or final) for the development may be issued.

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Version: 1, Version Date: 08/08/2018

# **BASIX** Certificate

Building Sustainability Index www.basix.nsw.gov.au

## **Alterations and Additions**

Certificate number: A324455

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Alterations and Additions Definitions" dated 06/10/2017 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

Director-General

Date of issue: Friday, 03, August 2018

To be valid, this certificate must be lodged within 3 months of the date of issue.



#### **Project address** Project name Waud Pool 42-48 st marys Road BERKSHIRE PARK 2765 Street address Penrith City Council Local Government Area Deposited Plan 983814 Plan type and number 59 Lot number Section number 0 **Project type** Separate dwelling house Dwelling type Ť Type of alteration and My renovation work is less than \$50,000, but includes a pool (and/or spa) with a combined Œ addition capacity of 40,000 litres or more.

Certificate Prepared by (please complete before submitting to Council or PCA)

Name / Company Name: Master Drafting

ABN (if applicable): 66113739716

BASIX Certificate number: A324455 page 2 / 3

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 1421 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	<b>✓</b>	<b>✓</b>
The applicant must configure the rainwater tank to collect rainwater runoff from at least 370 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool and outdoor spa.		✓	✓
Outdoor swimming pool		1	
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 50 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump.		✓	✓
Outdoor spa		1	
The spa must not have a capacity greater than 2.2 kilolitres.	<b>✓</b>	✓	✓
The spa must have a spa cover.		✓	✓
The applicant must install a spa pump timer.		✓	✓
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		✓	✓

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#### Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a "" in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a "" in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a "

" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.



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### Alterations and Additions

Certificate number: A324455

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Alterations and Additions Definitions" dated 06/10/2017 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

Director-General
Date of issue: Friday, 03, August 2018
To be valid, this certificate must be lodged within 3 months of the date of issue.



**Project address** Project name Waud Pool Street address 42-48 st marys Road BERKSHIRE PARK 2765 Local Government Area Penrith City Council Plan type and number Deposited Plan 983814 Lot number 59 Section number 0 escription **Project type** Dwelling type Separate dwelling house Type of alteration and My renovation work is less than \$50,000, but includes a pool (and/or spa) with a combined capacity of 40,000 litres or more.

Certificate Prepared by (please complete before submitting to Council or PCA)

Name / Company Name: Master Drafting

ABN (if applicable): 66113739716

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 1421 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	<b>✓</b>	<b>V</b>
The applicant must configure the rainwater tank to collect rainwater runoff from at least 370 square metres of roof area.		1	V
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool and outdoor spa.		<b>V</b>	1
Outdoor swimming pool		× × × × × × × × × × × × × × × × × × ×	
The swimming pool must be outdoors.	V	V	1
The swimming pool must not have a capacity greater than 50 kilolitres.	1	~	1
The swimming pool must have a pool cover.		1	1
The applicant must install a pool pump timer for the swimming pool.		1	1
The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump.		1	1
Outdoor spa			
The spa must not have a capacity greater than 2.2 kilolitres.	1	1	V
The spa must have a spa cover.		1	1
The applicant must install a spa pump timer.		1	1
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		1	~

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BASIX Certificate number: A324455

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Legend Le	
In these commitments, "applicant" means the person carrying out the development.	
Commitments identified with a " <li>" in the "Show on DA plans" column must be shown on the plans accompanying the development application is to be lodged for the proposed development).</li>	ication for the proposed development (if a
Commitments identified with a "" in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accordificate / complying development certificate for the proposed development.	mpanying the application for a construction
Commitments identified with a " " in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before development may be issued.	re a final occupation certificate for the

Planning & Infrastructure

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FOR:

B & S WAUD

AT:

42-48 St Mary's Rd

BERKSHIRE PARK

DATE: SHEET: 2/8/2018 3/3

DRAWING # 10999

DRAWN: TP

PROPOSED POOL & SPA BASIX



ALL DIMENSIONS TO BE CONSIDERED APPROXIMATES. BUILDER TO CONFIRM MEASUREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.