WORK SHALL BE INSPECTED BY OUR OFFICE TO ENSURE WORK SHALL BE INSPECIED BY OUR OFFICE TO ENSURE THAT ELEMENTS COMPLY WITH THE DESIGN INTENT AND SO THAT ENGINEERING CERTIFICATION CAN BE PROVIDED AT THE COMPLETION OF THE PROJECT. WORK THAT IS NOT INSPECTED BY OUR OFFICE WILL NOT BE CERTIFIED AS HAVING BEEN COMPLETED IN ACCORDANCE WITH THE INTENT OF THE DESIGN AND DRAWINGS.



2 x Y12 BARS, 1200 LONG TIED TO UNDERSIDE OF FABRIC. TYPICAL BARS MAY BE DELETED IF FABRIC LAPS AT INTERNAL CORNERS (typical).



HATCHED AREA INDICATES ALFRESCO.

HATCHED AREA INDICATES GARAGE.

HATCHED AREA INDICATES PORCH.

SPECIFICATION

- This specification shall be read in conjunction with the structural drawings and the Architectural drawings and specifications.
- Setting out dimensions or member size shall not be scaled from drawings. Any discrepancy or conclusion on these drawings must be notified to the Engineer before proceeding with the work.
- These drawings are only approved when the are signed with an original
- All work shall be in accordance with the requirements of all the relevant S.A.A. Codes.

FOUNDATIONS

- All footings and piers shall be founded on even bearing soil or rock of the same type throughout.
- The footings/piers have been designed for a safe bearing capacity of 200kPa. The foundation material shall be approved by the structural engineer or a geotechnical engineer before placing concrete in the footings/piers.
- Unless otherwise shown in these drawings piers are required in soft natural soils, uneven bearing conditions and fill areas. Unless otherwise specified piers shall be 400mm diameter mass concrete and spaced at 2000mm maximum centres. All footings, isolated pads, raft slab edge and internal beames shall be piered. The founding depth of the piers and the adequacy of the foundation material shall be determined on site by the structural or a geotechnical engineer.
- Excavations for drainage lines or other services must not effect slab or footing stability. The engineer must be consulted when the trench excavations are within the influence zone of the footings and slabs.
- Foundation excavations shall be kept free of water. If the bearing surface deteriorates before concrete is poured the Contractor shall clean out all loose, soft material down to the specified bearing capacity at his own expense.

CONCRETE

- All workmanship shall be in accordance with A.S.3600 except as varied by the contract documents.
 Cement is to be type A unless otherwise noted. Fc=32MPa, max. slump
- 80mm and max. aggregate size = 20mm
- All cement shall be vibrated to ensure correct placement into the formwork. Concrete shall be cured for 7 days by keeping all exposed areas wet with water or other method approved by the Engineer.

 No concrete shall be placed until the Engineer has inspected and approved the
- placed reinforcement.
- All concrete used in suspended slabs shall be sampled and tested in accordance
- Clear concrete cover to reinforcement shall be 25mm for slab, 50mm for beams and columns or as otherwise noted on the drawings.
- Splices in reinforcement shall be Trench mash and fabric 2 transverse wires plus 25mm, Y2 — 500mm, Y16 — 550 or as otherwise noted on drawings.
 Top and bottom reinforcement in slabs shall be supported in both directions at
- maximum centres of 600mm for bars 10mm or less, 900mm for bars 12mm and 16mm and 900mm for fabrics
- Waterproof memembrans shall be polythene sheet with a minimum thickness of

FILL TO BE COMPACTED IN ACCORDANCE WITH CLAUSE 6.4.2, AS2870

NOTE:

VERTICAL ARTICULATION JOINTS IN ACCORDANCE WITH CLAUSE 3.3.1.8 OF THE BUILDING CODE OF AUSTRALIA

PROPOSED SLAB PLAN AT LOT 2168 CABARITA WAY **JORDAN SPRINGS**

MEARES

T- 02 8883 2891 F-02 8883 2967 street: suite 3.07, 5 Celebration Dr Bella Vista mail: PO Box 7063 Baulkham Hills MC, NSW 2153 www.mearesconsulting.com.au patrick@mearesconsulting.com.au

ABN 41 154 140 002 STRUCTURAL

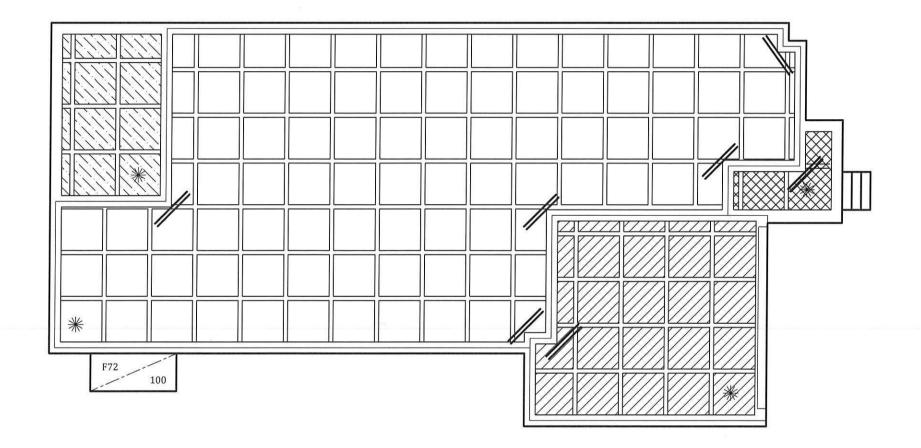
CONSULTING

DRAINAGE

CIVIL

SURVEYED:	DRAWN:	DESIGNED:	PM	DATE: 6/8/2013	Sheet 1
DATUM:	SCALE:	REVISION:	A	Ref. No. 6479	Of Sheets 5

STARTING POINT



32MPA for slab.

WAFFLE POD SLAB PLAN

SCALE 1: 100

WAFFLE TYPE

POD HEIGHT SLAB THICKNESS **OVERALL DEPTH** RIB SPACING (max.) **RIB WIDTH**

225mm. unless noted otherwise 85mm. 310mm, unless noted otherwise

REINFORCEMENT

3Y12

1Y12

20mm.

F72

EXTERNAL RIB

INTERNAL RIB

SLAB MESH

COVER (min.)

1100mm.

110mm.

THIS PLAN IS DONE IN ACCORDANCE WTIH AS2870

SOIL CLASS ;

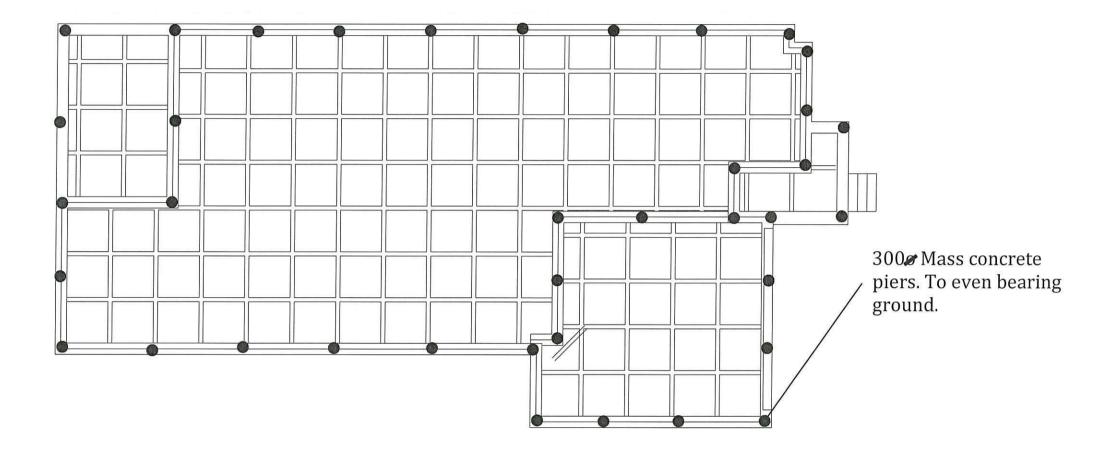
SYSTEM;

BUILDING ;

M

Veneer

Patrick J. Meares B.E. M.I.E. Aust.



32MPA for piers

PIERING PLAN

SCALE 1: 100

Patrick J. Meares B.E. M.I.E. Aust.

PROPOSED PIERING PLAN AT LOT 2168 CABARITA WAY JORDAN SPRINGS

MEARES

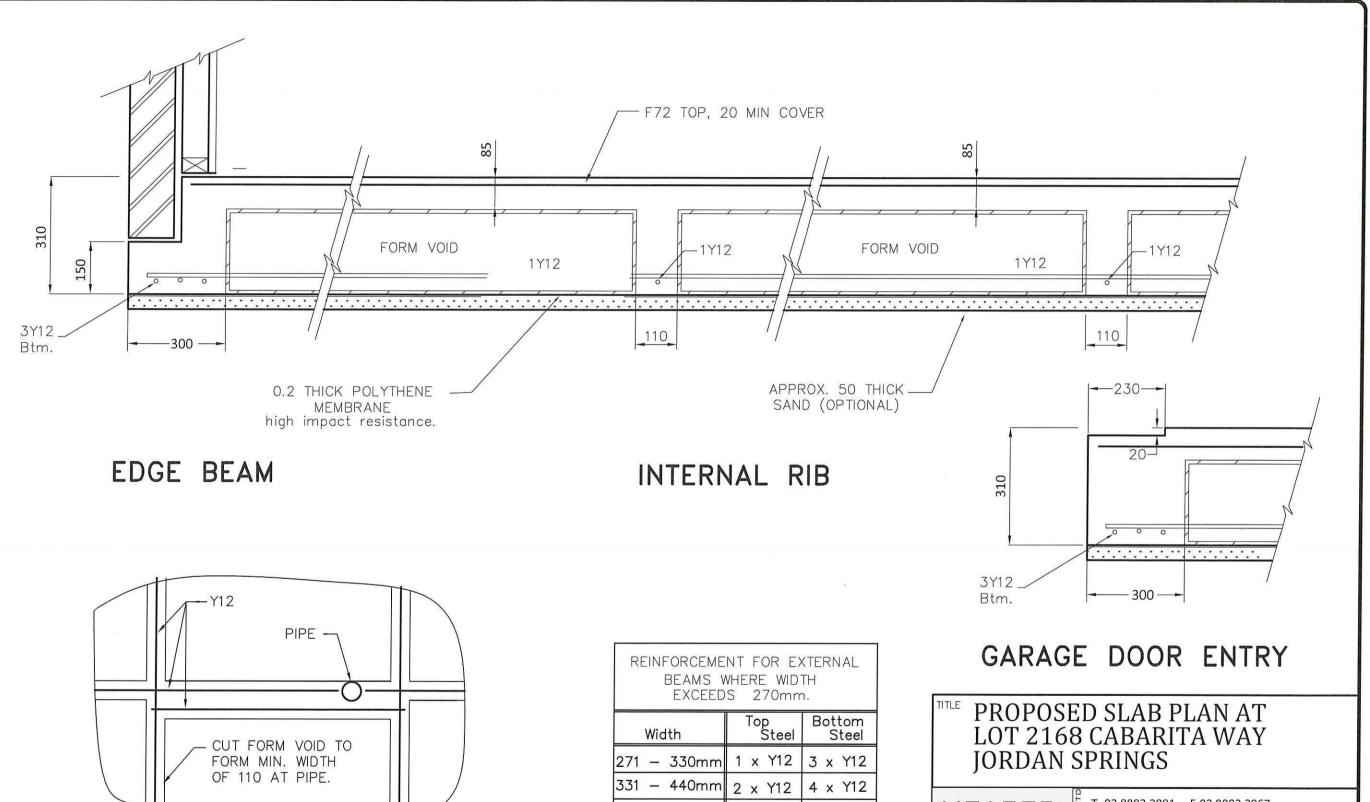
T- 02 8883 2891 F-02 8883 2967 street: suite 3.07, 5 Celebration Dr Bella Vista mail : PO Box 7063 Baulkham Hills MC, NSW 2153 www.mearesconsulting.com.au patrick@mearesconsulting.com.au

CONSULTING ABN 41 154 140 002

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PLAN Pipe Penetration through Rib

Width	Top Steel	Bottom Steel	
271 – 330mm	1 x Y12	3 x Y12	
331 – 440mm	2 x Y12	4 x Y12	
441 – 550mm	3 x Y12	5 x Y12	
551 – 660mm	4 x Y12	6 X Y12	

MEARES

CONSULTING

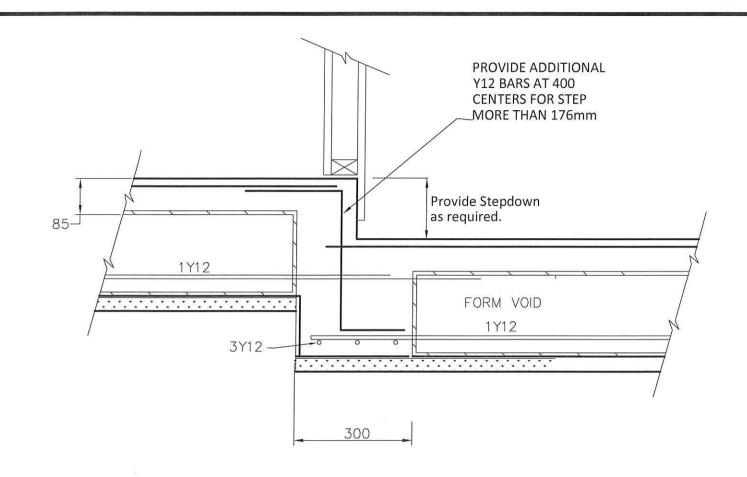
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ABN 41 154 140 002 STRUCTURAL

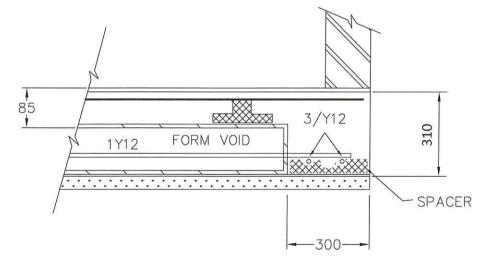
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CIVIL

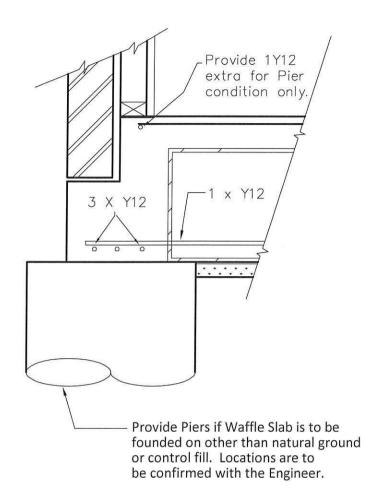
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GARAGE SET-DOWN Detail



VERANDAH / GARAGE EDGE BEAM



Typical Piering Requirements

PROPOSED SLAB PLAN AT LOT 2168 CABARITA WAY JORDAN SPRINGS

MEARES

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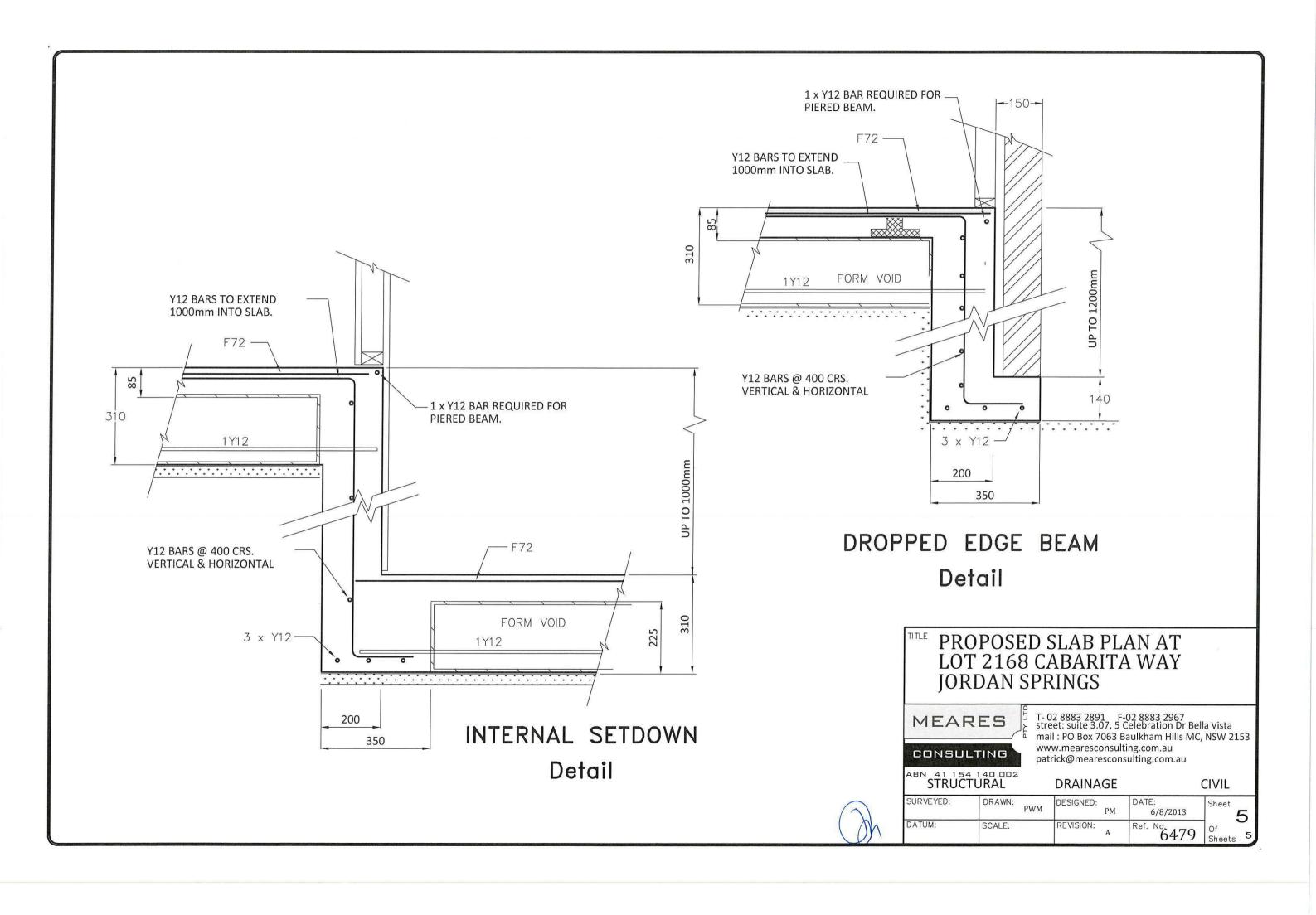
STRUCTURAL

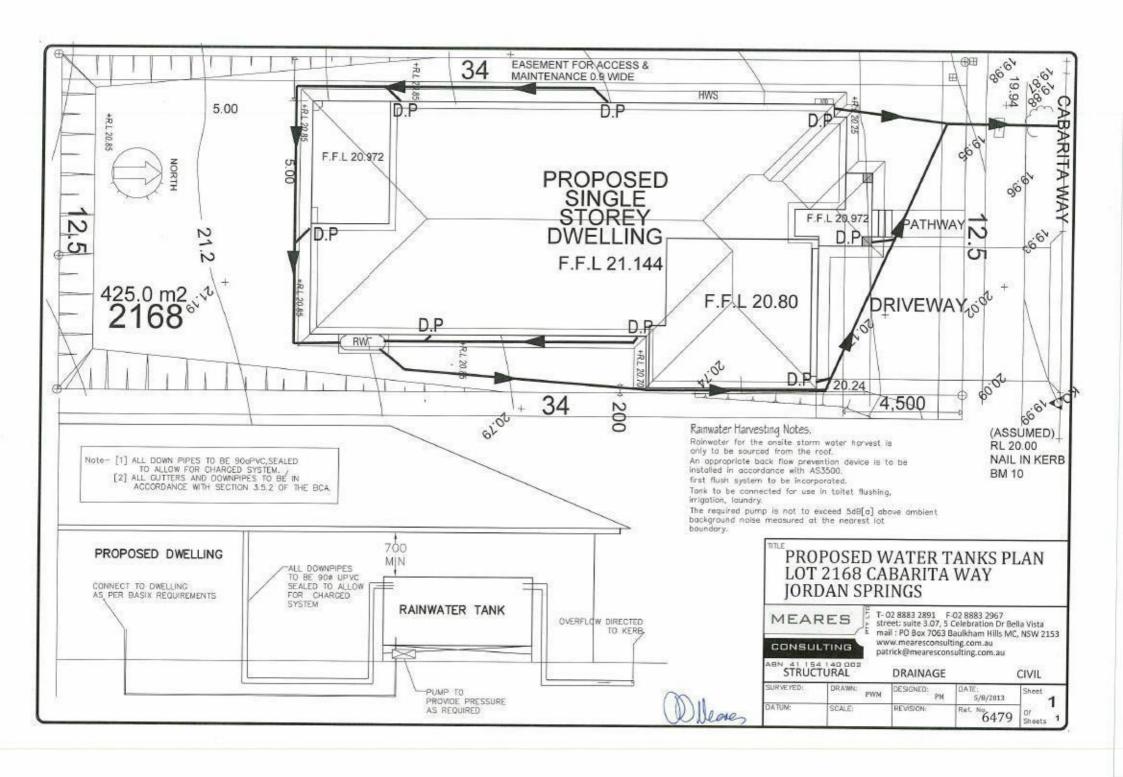
DRAINAGE

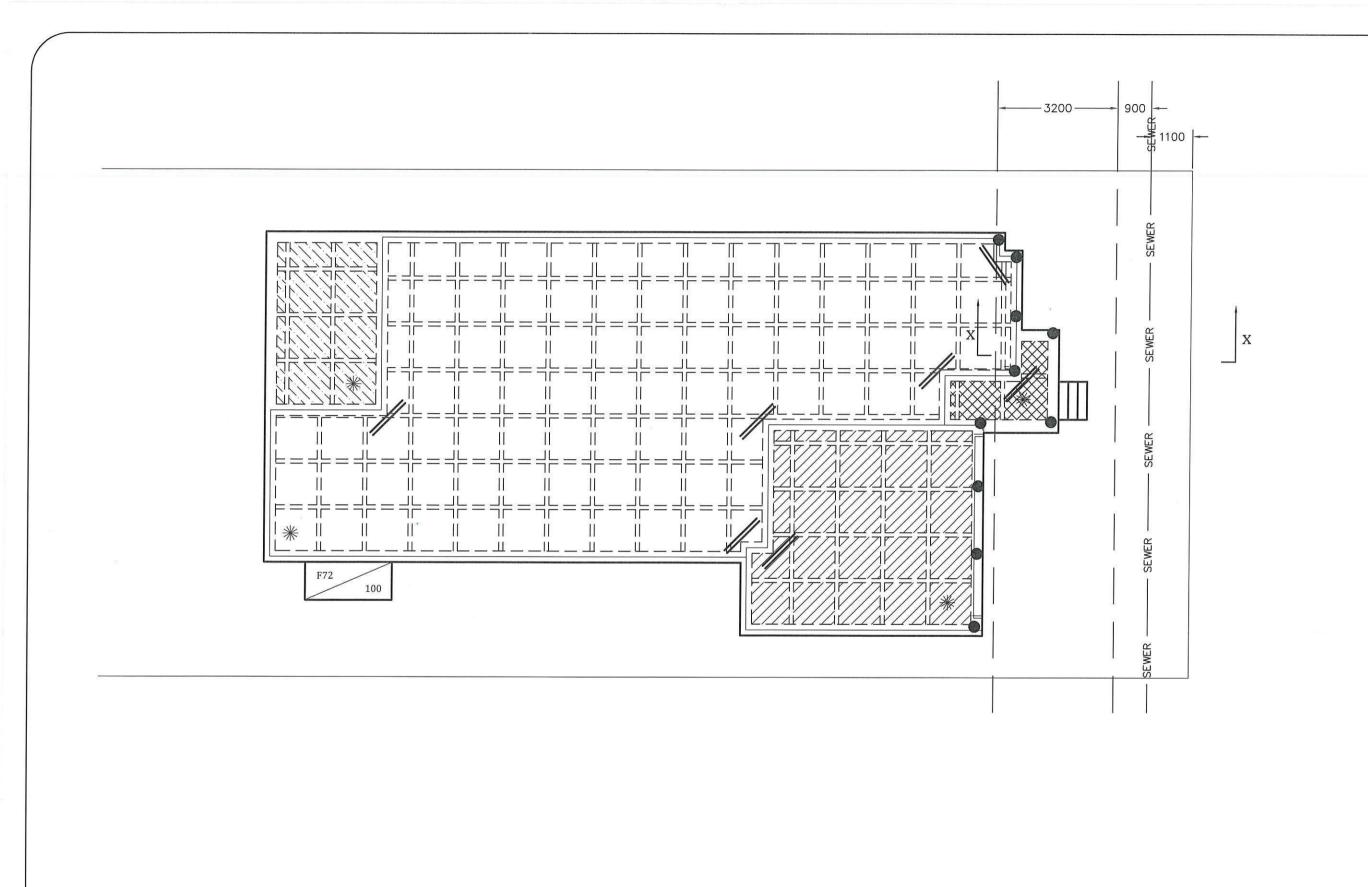
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DATUM:	SCALE:	REVISION:	Ref. No. 6479	Of Sheets 5







MEARES CONSULTING

լբ suite 3.07, 5 Celebration Dr, Bella Vista all mail: PO box 7063 Baulkham Hills 2153

Ph: 02 8883 2891 Fax: 02 8883 2967 email: patrick@mearesconsulting.com.au

ABN 41 154 140 002

DRAINAGE

proposed dwelling at lot 2168 cabarita way **JORDAN SPRINGS**

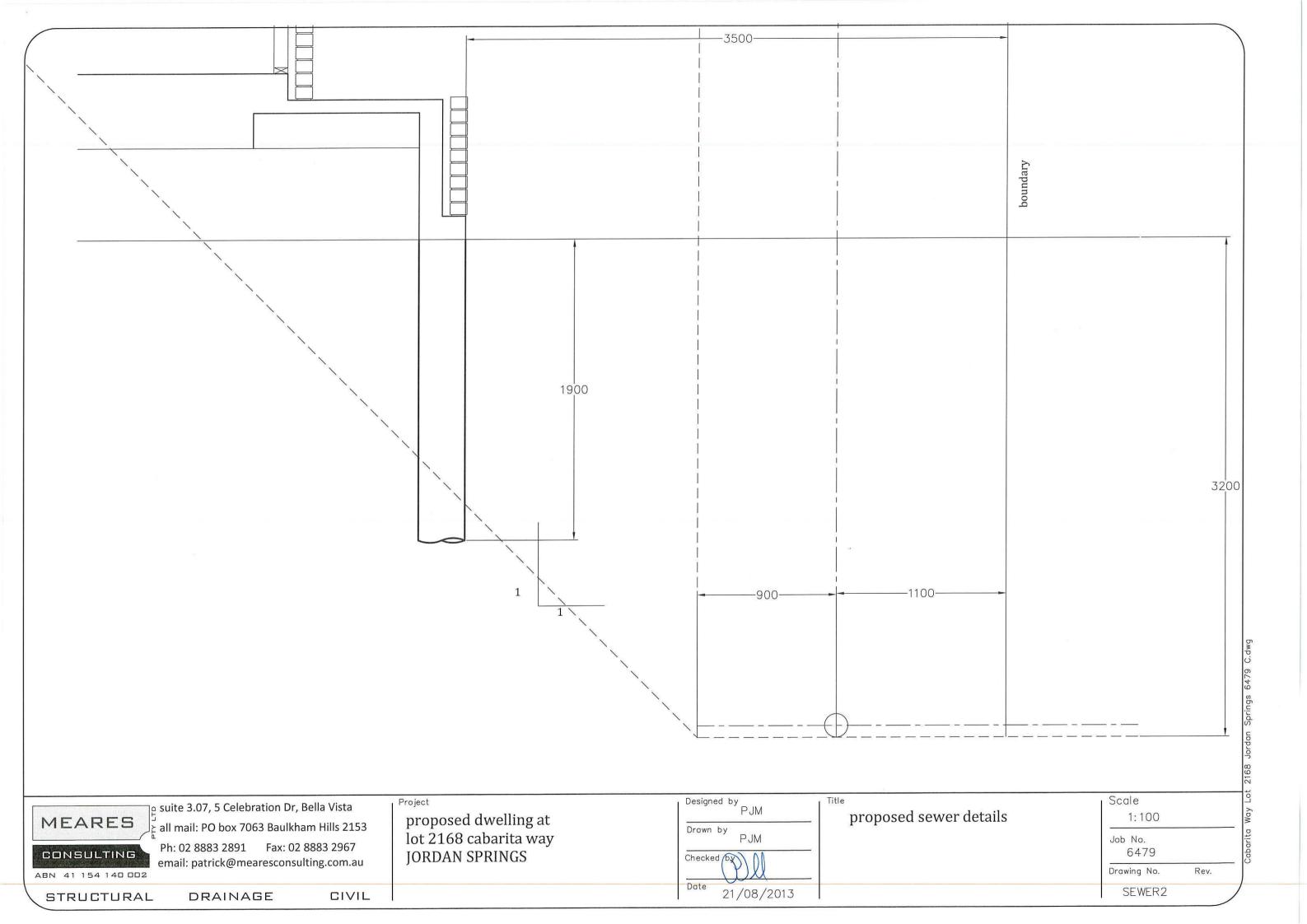
Designed by PJM Drawn by PJM Checked by 21/08/2013

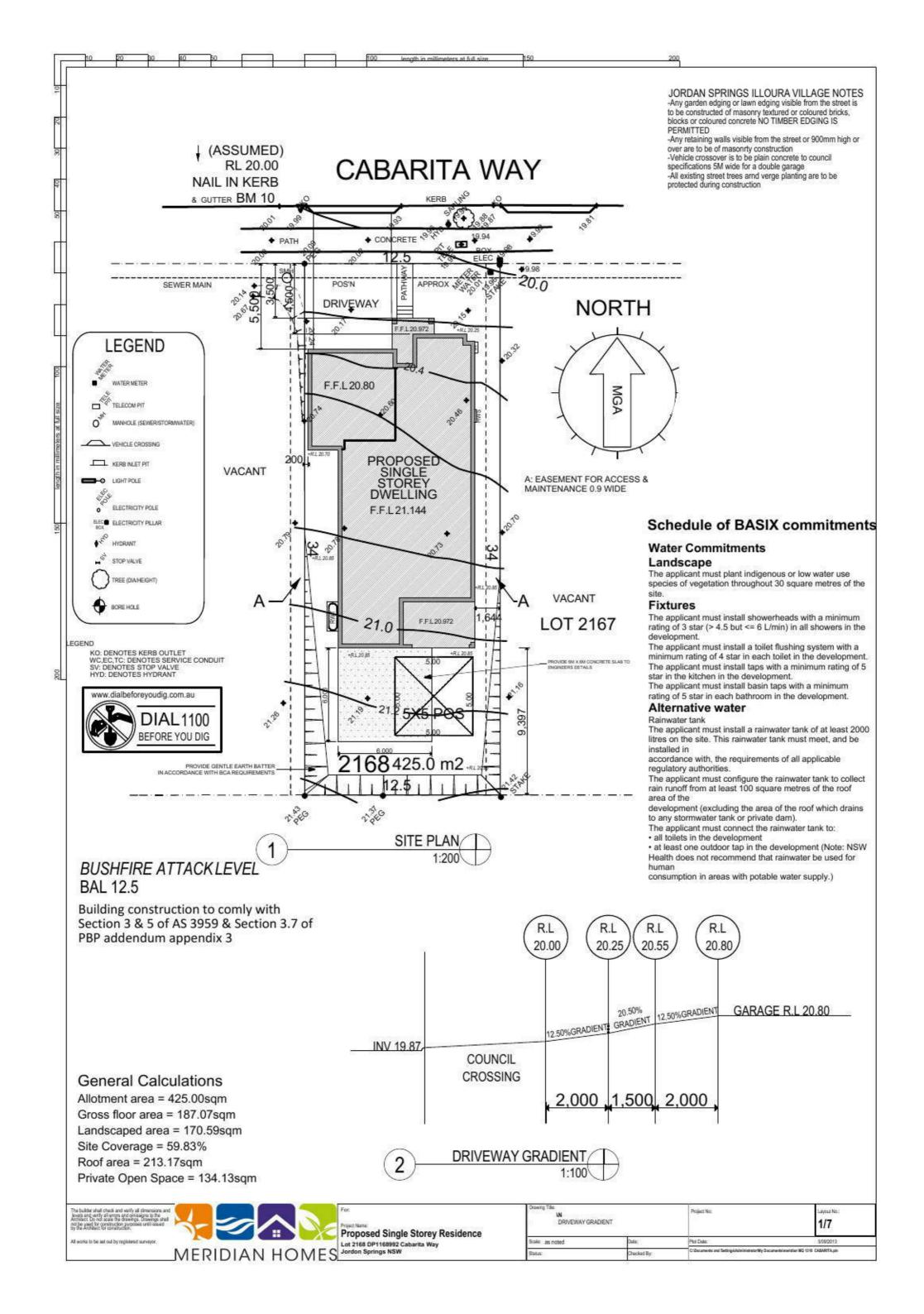
proposed sewer details

Scale 1:100 Job No. 6479 Drawing No. Rev.

SEWER1

STRUCTURAL CIVIL





SEDIMENTAION CONTROL NOTES

1: ALL EROSION CONTROL MEASURERS ARE TO BE INSTALLED & MAINTAINED IN ACCORDANCE WITH URBAN STORMWATER 3rd EDITION PRODUCED BY THE NSW DEPARMENT OF HOUSING STANDARD DRAWING (SO) NUMBERS REFERENCE CAN BE OBTAINED FROM THIS PUBLICATION

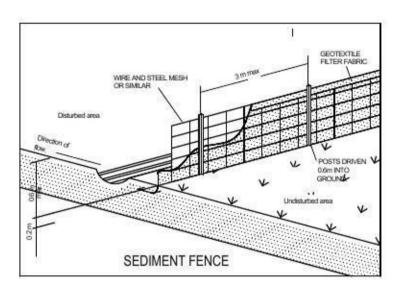
2 : ALL EROSION & SILATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTIONWORKS, & ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARY DURING CONSTRUCTION

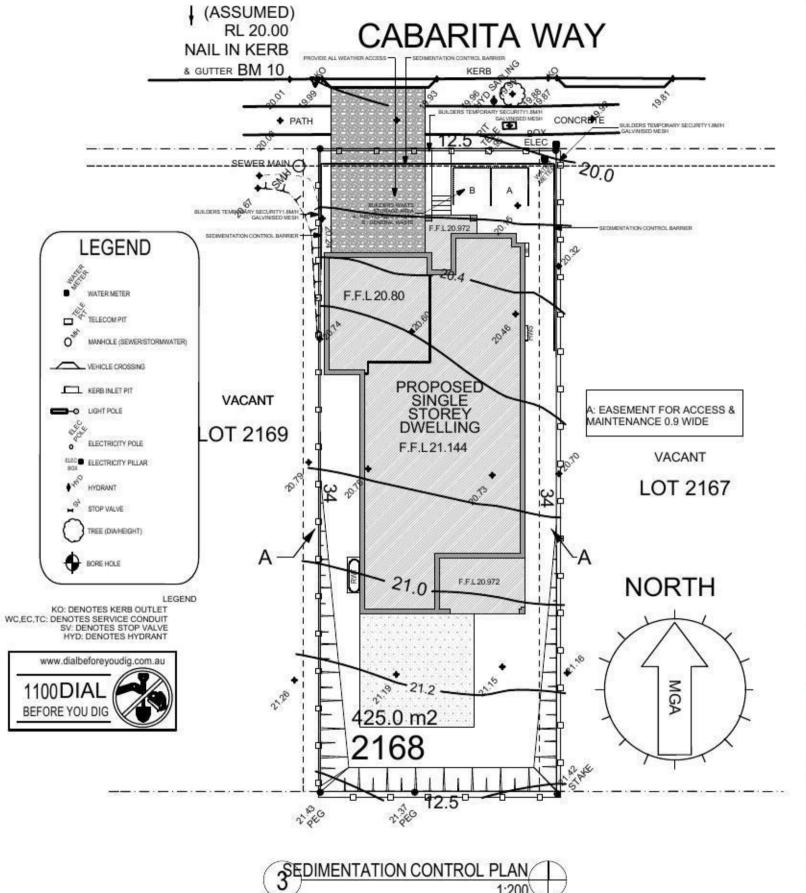
3: ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON COUCIL APPROVED DEVELOPMENT CONSENT. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENT ETC.

4: INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS, LIKELY TO COLLECTSILT LADDEN

5: NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILTY TO ENSURE

THAT ALL SITE
ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERSACT & ALL COUNCIL REQUIREMENTS







Mr James Tolentino & Mrs Sharon Tolentino

Proposed Single Storey Residence

Lot 2168 DP1168992 Cabarita Way Jordon Springs NSW

2013:108

Drawing Title:
- SEDIMENTATION CONTROL PLAN
SEDIMENTATION CONTROL PLAN, SEDIMENTATION FENCI Scale: as noted Project No:

2/7

STORMWATER DRAINAGE

• INDICATES 100mm DIA STORMWATER PIPELINE (MINIMUM FALL 1 IN 100)

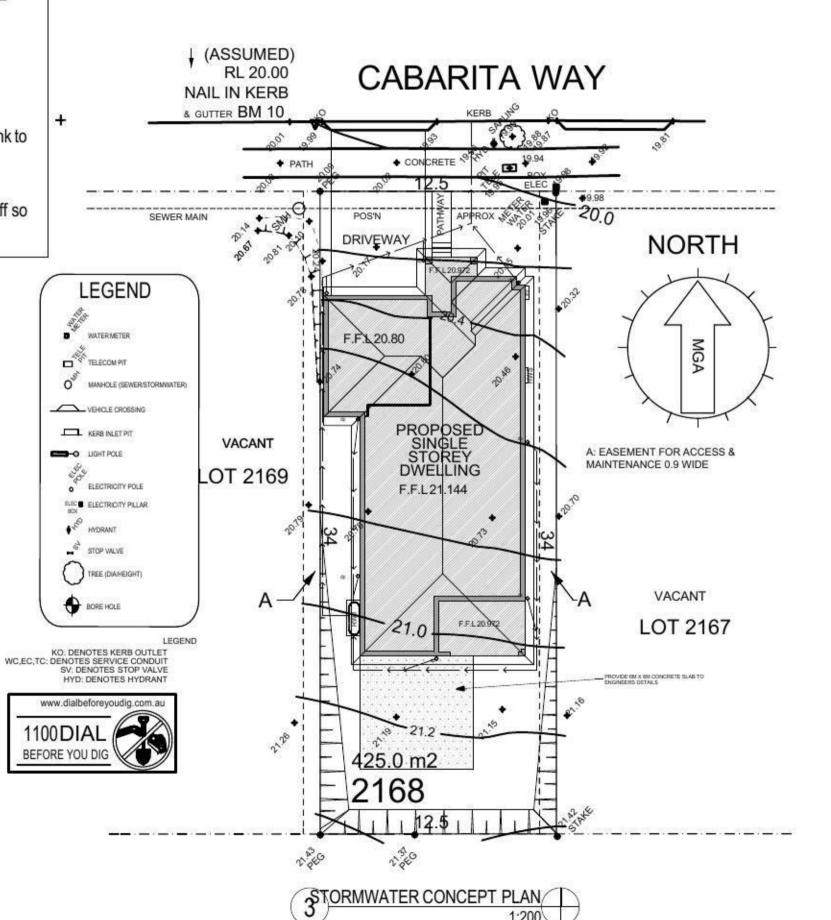
NOTE:

All stormwater drainage to be in accordance with AS 3500.3

Provide for drainage overflow from above ground Rain Water Tank to drain to an existing Council drainage system

Ensure that the development, either during construction or upon completion does not impede or divert natural surface water run off so

as to cause nuisance to adjoining properties



The builder shall check and verify all dimensions and levels and verify all emons and chisations to the Architect Co not scale the drawings. Drawings shall not be used for construction.

All works to be set out by registered surveyor.

WERIDIAN HOMES.
For:
Mr James Tolentino & Mrs Sharon Tolentino Project Name

Proposed Single Storey Residence

Lot 2168 DP1168992 Cabarita Way Jordon Springs NSW

Drawing Titis:
- STORMWARER CONCEPT PLAN

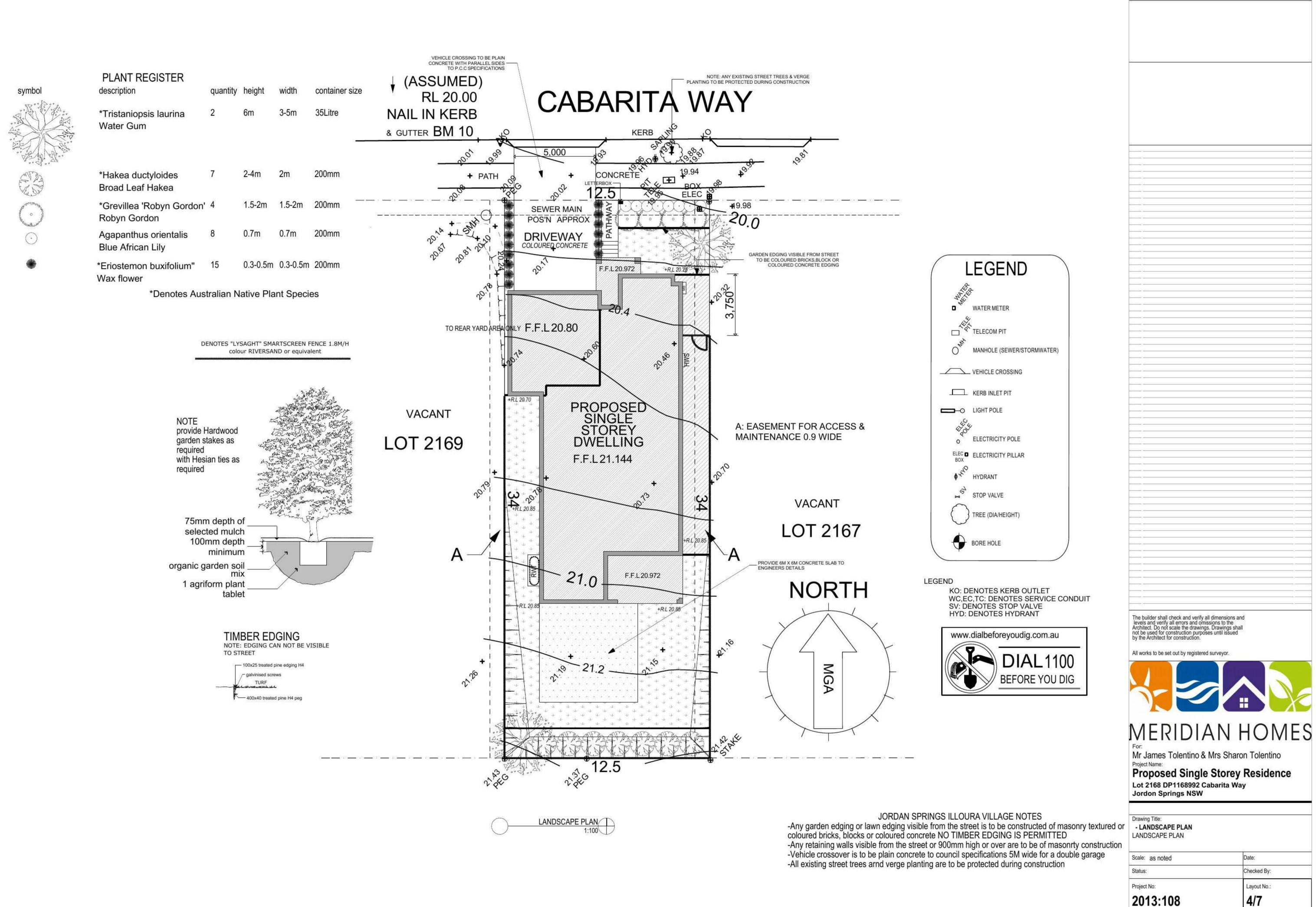
STORMWATER CONCEPT PLAN

Scale: as noted

2013:108

length in millimeters at full size 150 200

3/7



10 20 30 40 50 100 length in millimeters at full size 150

3/09/2013

Plot Date:

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Schedule of BASIX commitments

Thermal Comfort Commitments

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) and up to 2 windows/glazed doors (<0.7 square metres) which are not listed in

The following requirements must also be satisfied in relation to each window and glazed door:

- · Except where the glass is 'single clear' or 'single toned', each window and glazed door must have a U-value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) +/-10% of that listed. Total system U-values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.
- The leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 millimetres above the head of the window or glazed door, except that a projection greater than 500 mm and up to 1500 mm above the head must be twice the value in the table.
- Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.
- . Unless they have adjustable shading, pergolas must have fixed battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm

	situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.						
	Window/glazed door no.	Orientation	Maximum area (square metres)	Туре	Shading	Overshadowing	
	W1	N	0.90	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
200	W2	N	1.80	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
	W3	E	1.08	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
	W4	E	0.60	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
	W5	E	1.08	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
	W6	E	1.08	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
150	W7	E	0.96	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
92	W8	E	1.44	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
eters at full size	W9	E	1.44	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
milimete	W10	E	1.44	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
length r	W11	S	5.67	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
100	W12	S	2.16	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
0.53	W13	W	2.04	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
1982	W14	W	2.16	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
	W15	W	1.08	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed	
77 70	<u>(</u>					22.5°	

Thermal Comfort Commitments

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.

Construction

floor - concrete slab on ground

external wall - brick veneer external wall - brick veneer external wall - brick veneer

external wall - brick veneer

internal wall shared with garage - plasterboard ceiling and roof - flat ceiling / pitched roof

Additional insulation required (R-Value) Other specifications

1.66 (or 2.20 including construction) 1.66 (or 2.20 including construction) 1.66 (or 2.20 including construction) 1.66 (or 2.20 including construction)

ceiling: 3 (up), roof: foil/sarking

unventilated; medium (solar absorptance 0.475-0.70)

Note Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.

Energy Commitments

The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 3.5 stars.

Cooling system

The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 3 Star (new rating)

The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.

The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system. The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.

Ventilation

The applicant must install the following exhaust systems in the development:

At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off

Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off

Laundry: natural ventilation only, or no laundry; Operation control: n/a 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 3 of the bedrooms / study; dedicated
- · at least 3 of the living / dining rooms; dedicated
- . the kitchen; dedicated
- · all bathrooms/toilets; dedicated
- · the laundry; dedicated · all hallways; dedicated

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 2 bathroom(s)/toilet(s) in the development for natural lighting.

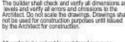
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.

The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX

TIMBER FRAMED ROOF

SPECIFICATIONS

The applicant must install a fixed outdoor clothes drying line as part of the development.





Mr James Tolentino & Mrs Sharon Tolentino

Proposed Single Storey Residence Lot 2168 DP1168992 Cabarita Way Jordon Springs NSW

- SECTION A:A SECTION A:A Scale: as noted Status: Project No. 6/7 2013:108

SELECTED ROOF TILES METAL FASCIA & GUTTER F.C.L 23.594 450 PLASTERBOARD LININGS REINFORCED CONCRETE SLAB 2 TO ENGINEERS DETAILS EFL21.144 SECTION A:A/ 3

