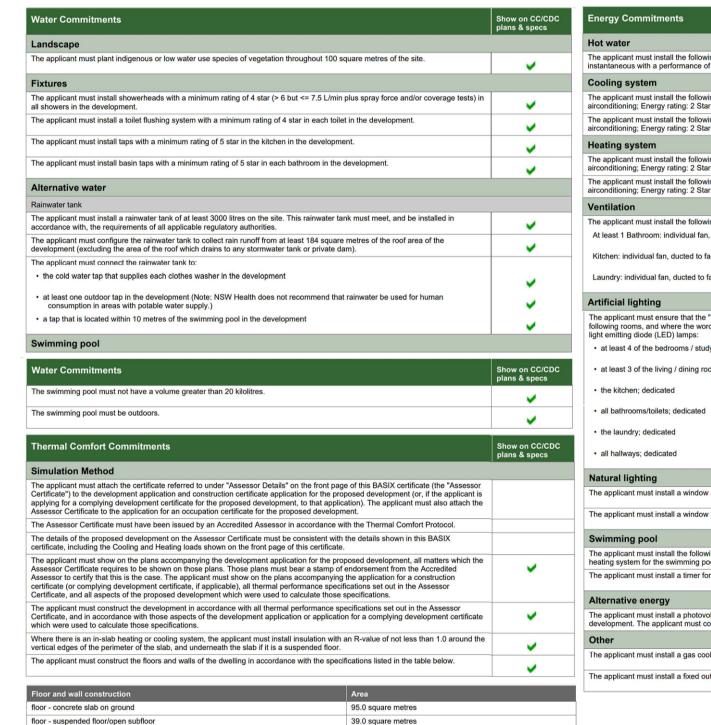
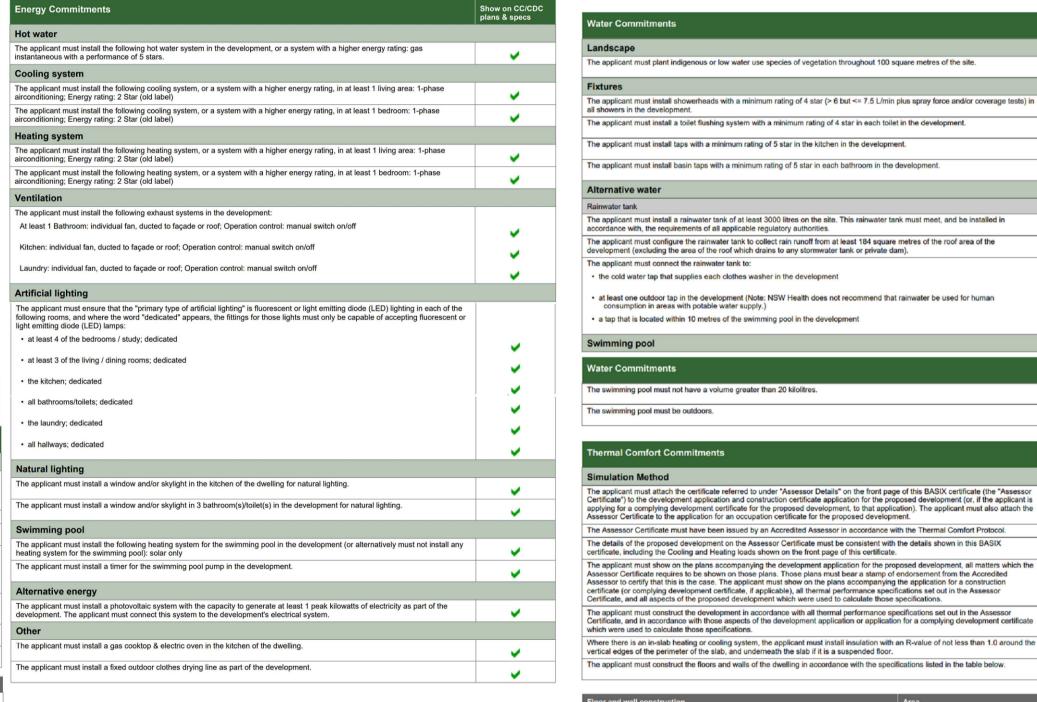
## RALSTON ROAD PALM BEACH

## LOT 4 / LOT 5 DP 14048, 26 RALSTON ROAD, PALM BEACH NSW 2108

	DRAWING SCHEDULE
A001	COVER SHEET
A010	EXISTING SITE PLAN
A011	SITE PLAN
A100	CUT & FILL PLAN
A200	LOWER GROUND FLOOR PLAN
A201	GROUND FLOOR PLAN
A202	FIRST FLOOR PLAN
A203	ROOF PLAN
A300	ELEVATIONS - SHEET 01
A301	ELEVATIONS - SHEET 02
A302	ELEVATIONS - SHEET 03
A310	SECTIONS
A900	SHADOW DIAGRAMS - SHEET 01
A901	SHADOW DIAGRAMS - SHEET 02
A902	SHADOW DIAGRAMS - SHEET 03
A903	SHADOW DIAGRAMS - SHEET 04









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 Date of issue: Monday, 23 December 2019
To be valid, this certificate must be lodged within 3 months of the date of issue.

Total area of garden and lawn (m2)

Project name	Palm Beach 1		
Street address	26, lot 5 Ralston Street Palm Beach 2108		
Local Government Area	Northern Beaches Council		
Plan type and plan number	deposited 14048		
Lot no.	5		
Section no.	10		
Project type	separate dwelling house		
No. of bedrooms	5		
Project score			
Water	<b>✓</b> 42	Target 40	
Thermal Comfort	✓ Pass	Target Pass	
Energy	✓ 56	Target 50	

Certificate Prepared by

ABN (if applicable): 42630013008

Name / Company Name: Integreco Consulting Pty Ltd

Project address	
Project name	Palm Beach 1
Street address	26, lot 5 Raiston Street Palm Beach 2108
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 14048
Lot no.	5
Section no.	10
Project type	
Project type	separate dwelling house
No. of bedrooms	5
Site details	
Site area (m²)	766
Roof area (m²)	184
Conditioned floor area (m2)	280.0
Unconditioned floor area (m2)	14.0

	oads			
Assessor number	BDAV/19/1921	BDAV/19/1921		
Certificate number	0004495628			
Climate zone	56			
Area adjusted cooling load (MJ/m².year)	19			
Area adjusted heating load (MJ/m².year)	43			
Project score				
Water	<b>✓</b> 42	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	<b>✓</b> 56	Target 50		

	plans & specs	
Landscape		Hot water
The applicant must plant indigenous or low water use species of vegetation throughout 100 square metres of the site.	~	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 5 stars.
Fixtures		Cooling system
The applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 L/min plus spray force and/or coverage tests) in all showers in the development.		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: 2 Star (old label)
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.	~	The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 2 Star (old label)
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.	~	Heating system
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.	_	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: 2 Star (old label)
Alternative water		The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 2 Star (old label)
Rainwater tank		Ventilation
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.		The applicant must install the following exhaust systems in the development:
The applicant must configure the rainwater tank to collect rain runoff from at least 184 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off
The applicant must connect the rainwater tank to:		Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off
the cold water tap that supplies each clothes washer in the development		Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off
<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>	_	Artificial lighting
a tap that is located within 10 metres of the swimming pool in the development	-	The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of th following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent light emitting diode (LED) lamps:
Swimming pool		at least 5 of the bedrooms / study; dedicated
Water Commitments	Show on CC/CDC plans & specs	at least 3 of the living / dining rooms; dedicated
The swimming pool must not have a volume greater than 20 kilolitres.	-	the kitchen; dedicated
The swimming pool must be outdoors.		
		Energy Commitments
Thermal Comfort Commitments	Show on CC/CDC plans & specs	all bathrooms/toilets; dedicated
Simulation Method		the laundry; dedicated
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	T	all hallways; dedicated
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.		Natural lighting
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.		The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.
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 install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.
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	_	Swimming pool
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 install the following heating system for the swimming pool in the development (or alternatively must not install an heating system for the swimming pool): solar only
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	_	The applicant must install a timer for the swimming pool pump in the development.
which were used to calculate those specifications.		Alternative energy
Where there is an in-slab heating or cooling system, the applicant must install insulation with an R-value of not less than 1.0 around the	1 ,	The applicant must install a photovoltaic system with the capacity to generate at least 1 peak kilowatts of electricity as part of the

The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.

· · · · · · · · · · · · · · · · · · ·	_
Laundry: Individual fan, ducted to façade or roof; Operation control: manual switch on/off	~
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; dedicated	_
at least 3 of the living / dining rooms; dedicated	
the kitchen; dedicated	-
Energy Commitments	Show on CC/CI
all bathrooms/toilets; dedicated	pians d specs
the laundry; dedicated	Ü
all hallways; dedicated	Ü
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 3 bathroom(s)/toilet(s) in the development for natural lighting.	
Swimming pool	
The applicant must install the following heating system for the swimming pool in the development (or alternatively must not install any heating system for the swimming pool): solar only	
The applicant must install a timer for the swimming pool pump in the development.	
Alternative energy	
The applicant must install a photovoltaic system with the capacity to generate at least 1 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 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.	_

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.

ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART ABN 56 120 779 106 OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

APPROVED BY A DIRECTOR OF CRAWFORD ARCHITECTS PTY LTD E arch@crawford.com.au

SUITE 3.01, LEVEL 3 80 MOUNT STREET NORTH SYDNEY, NSW 2060 AUSTRALIA NOMINATED ARCHITECTS: TONY GRAY 5303 & PAUL GODSELL 6726

23.12.05 S4.55 APPLICATION ISSUE THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au 22.05.05 PRELIMINARY ISSUES

ISSUE DATE AMENDMENTS

**TONY & GEORGINA NASSIF** 

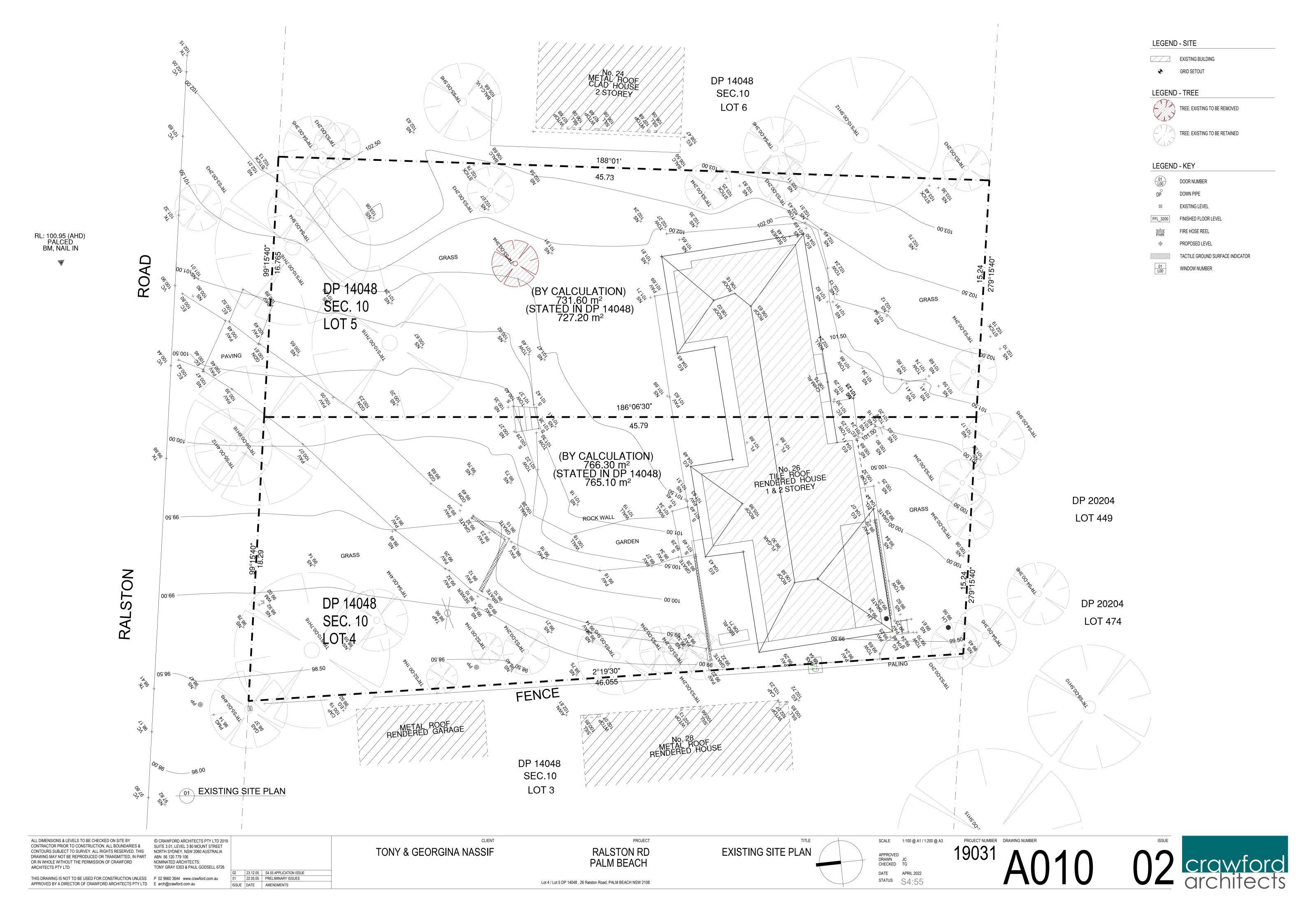
RALSTON RD

**COVER SHEET** 

floor - suspended floor/open subfloor

APPROVED CHECKED TG DATE APRIL 2022



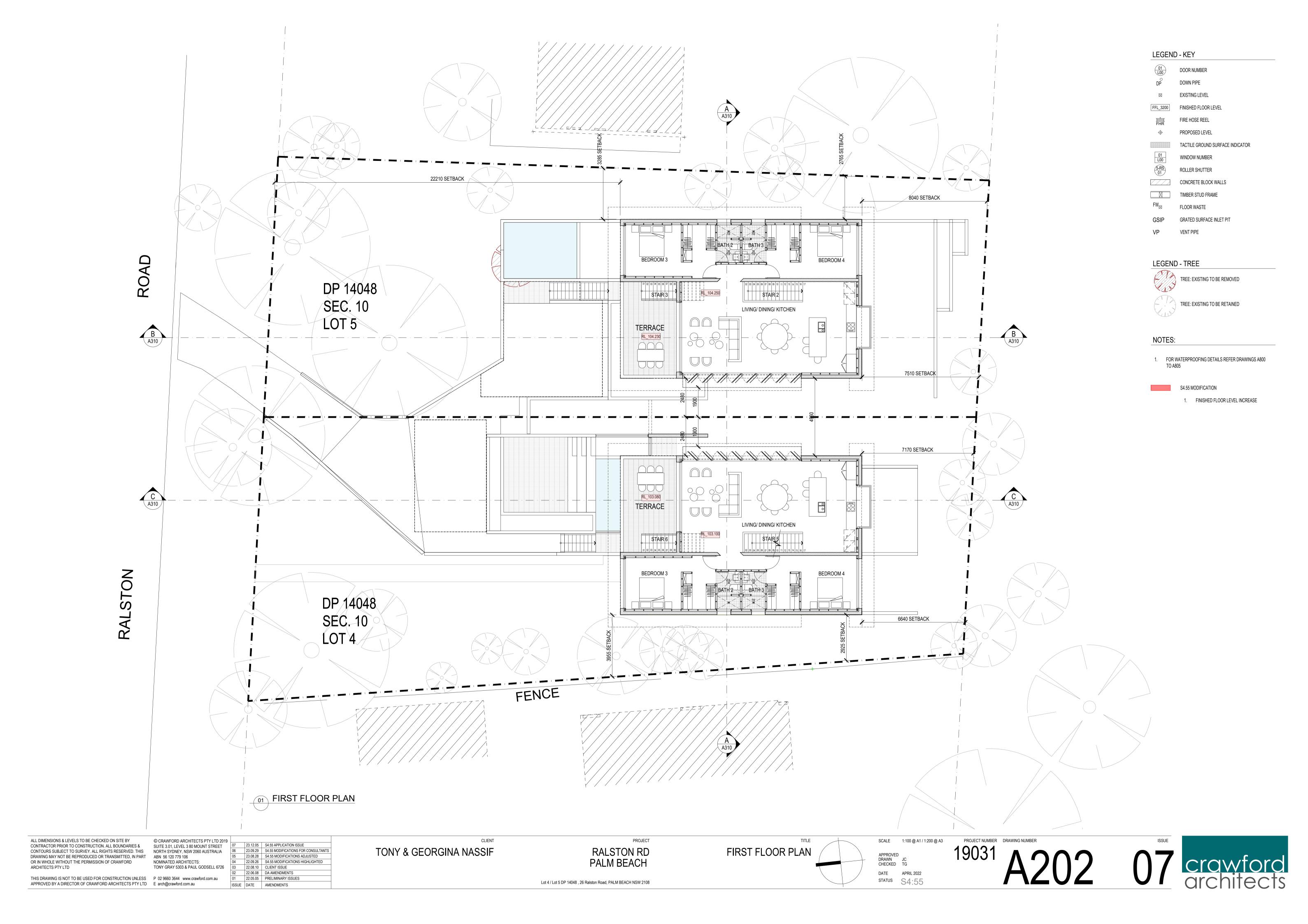


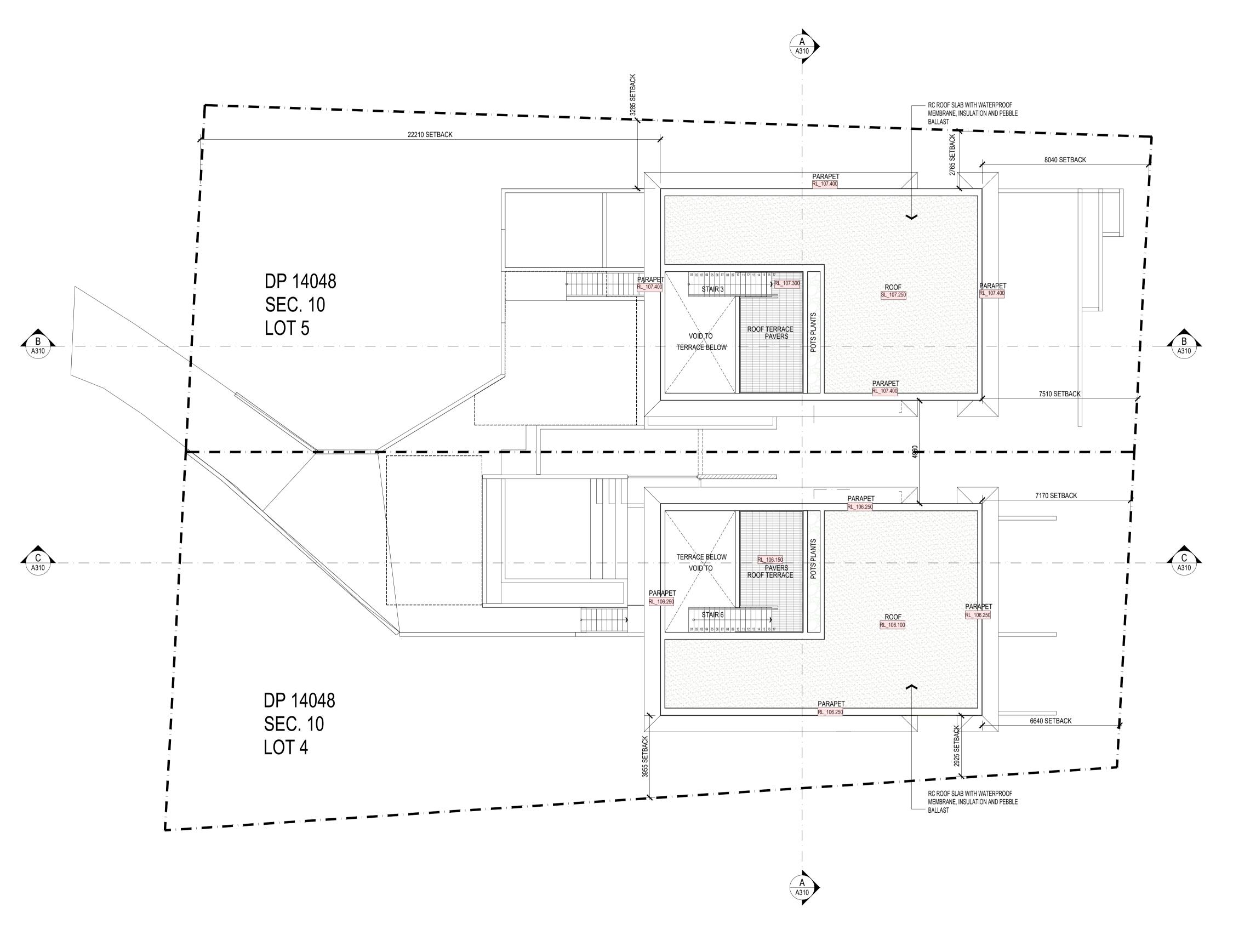












LEGEND - KEY

DOOR NUMBER DOWN PIPE

EXISTING LEVEL

FINISHED FLOOR LEVEL

FIRE HOSE REEL PROPOSED LEVEL

TACTILE GROUND SURFACE INDICATOR WINDOW NUMBER

ROLLER SHUTTER

CONCRETE BLOCK WALLS

TIMBER STUD FRAME FLOOR WASTE

GRATED SURFACE INLET PIT

VENT PIPE

LEGEND - TREE

TREE: EXISTING TO BE REMOVED



NOTES:

FOR WATERPROOFING DETAILS REFER DRAWINGS A800 TO A805

S4.55 MODIFICATION

1. RL TO ROOF INCREASED BY 450MM

ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART ABN 56 120 779 106

NOMINATED ARCHITECTS: THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au 

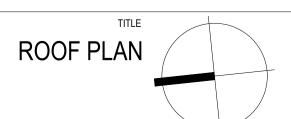
© CRAWFORD ARCHITECTS PTY LTD 2019 SUITE 3.01, LEVEL 3 80 MOUNT STREET NORTH SYDNEY, NSW 2060 AUSTRALIA TONY GRAY 5303 & PAUL GODSELL 6726 03 22.08.10 CLIENT ISSUE

23.12.05 S4.55 APPLICATION ISSUE 23.09.29 S4.55 MODIFICATIONS FOR CONSULTANTS 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED 22.06.08 DA AMENDMENTS

01 22.05.05 PRELIMINARY ISSUES

ISSUE DATE AMENDMENTS

RALSTON RD PALM BEACH



APPROVED DRAWN JC CHECKED TG

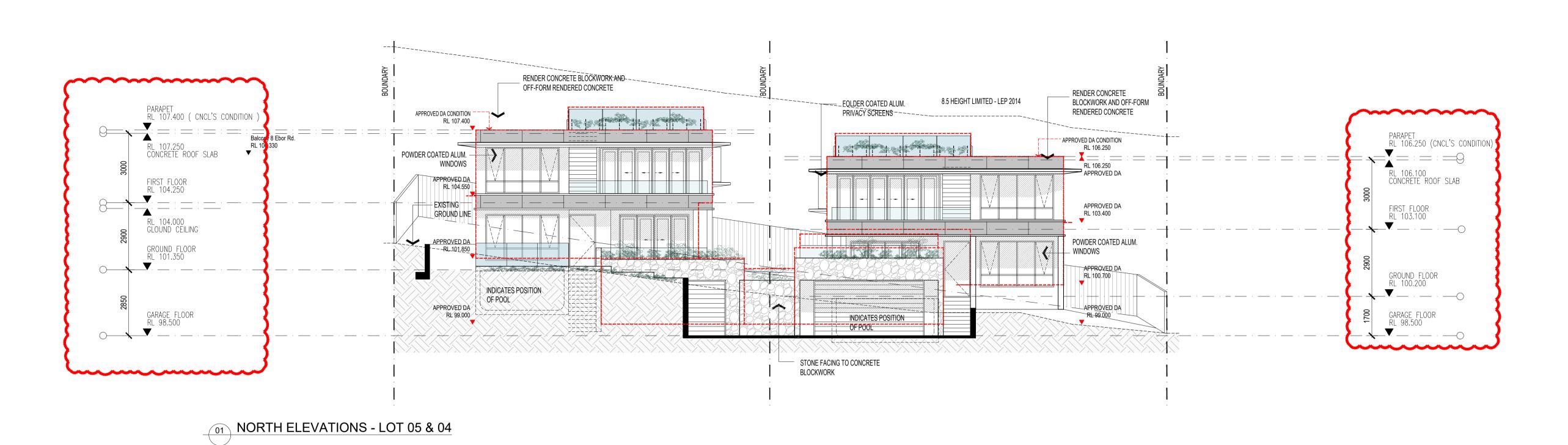
DATE APRIL 2022

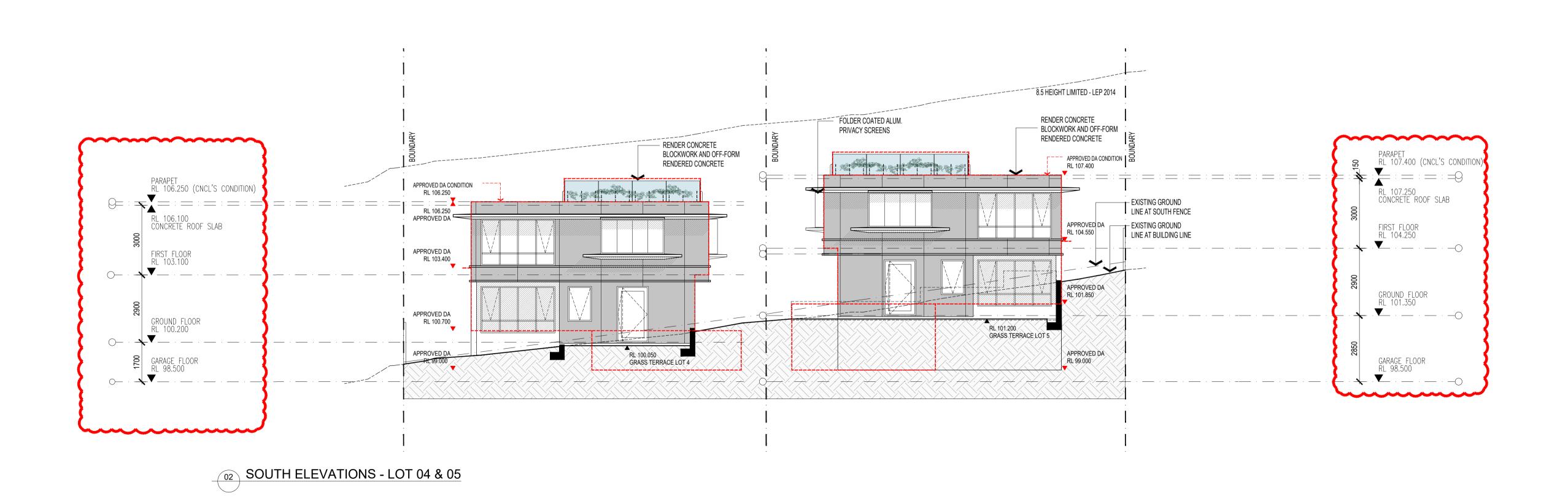
STATUS S4:55

19031 A203 07 crawford architects

BUILDING HEIGHT INCREASED FOR FLOOR
 TO FLOOR & CEILING HEIGHT COMPLIANCE

APPROVED DA





ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD ARCHITECTS PTY LTD

© CRAWFORD ARCHITECTS PTY LTD 2019
SUITE 3.01, LEVEL 3 80 MOUNT STREET
NORTH SYDNEY, NSW 2060 AUSTRALIA
ABN 56 120 779 106
NOMINATED ARCHITECTS:
TONY GRAY 5303 & PAUL GODSELL 6726

08 23.12.05 S4.55 APPLICATION ISSUE
07 23.10.05 S4.55 MODIFICATIONS ISSUE
08 23.12.05 S4.55 MODIFICATION ISSUE
08 23.12.05 S4.55 MODIFICATION ISSUE
09 24.55 MODIFICATIONS ADJUSTED
09 22.08.10 CLIENT ISSUE

TONY & GEORGINA NASSIF

RALSTON RD PALM BEACH ELEVATIONS SHEET 01 APPROVED DRAWN JC CHECKED TG

DATE APRIL 2022
STATUS \$4:55

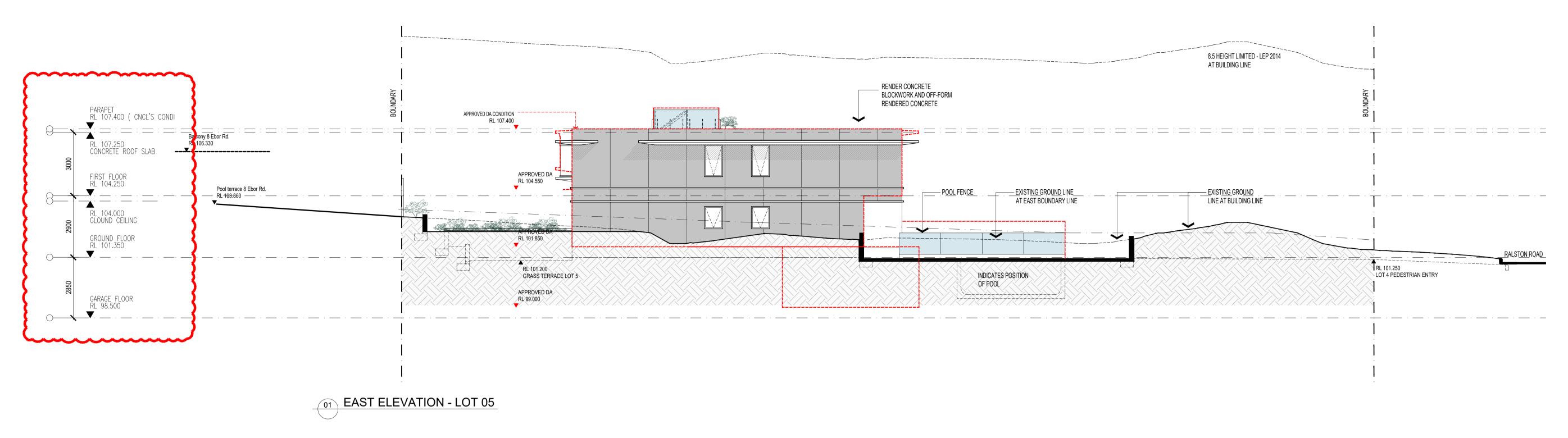
PROJECT NUMBER DRAWING NUMBER

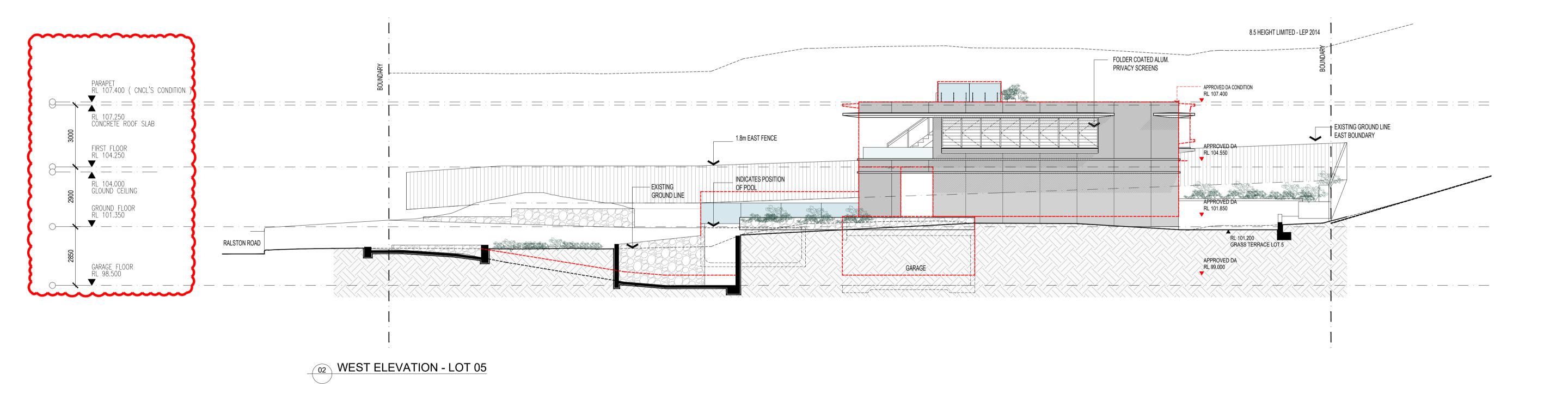
19031 A 3 (

08 crawford architect

1. BUILDING HEIGHT INCREASED FOR FLOOR TO FLOOR & CEILING HEIGHT COMPLIANCE

APPROVED DA





ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

© CRAWFORD ARCHITECTS PTY LTD 2019 SUITE 3.01, LEVEL 3 80 MOUNT STREET NORTH SYDNEY, NSW 2060 AUSTRALIA ABN 56 120 779 106 NOMINATED ARCHITECTS: TONY GRAY 5303 & PAUL GODSELL 6726

23.12.05 S4.55 APPLICATION ISSUE 23.09.29 S4.55 MODIFICATIONS FOR CONSULTANTS 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED 03 22.08.10 CLIENT ISSUE 22.06.08 DA AMENDMENTS THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au 22.05.05 PRELIMINARY ISSUES

ISSUE DATE AMENDMENTS

**TONY & GEORGINA NASSIF** 

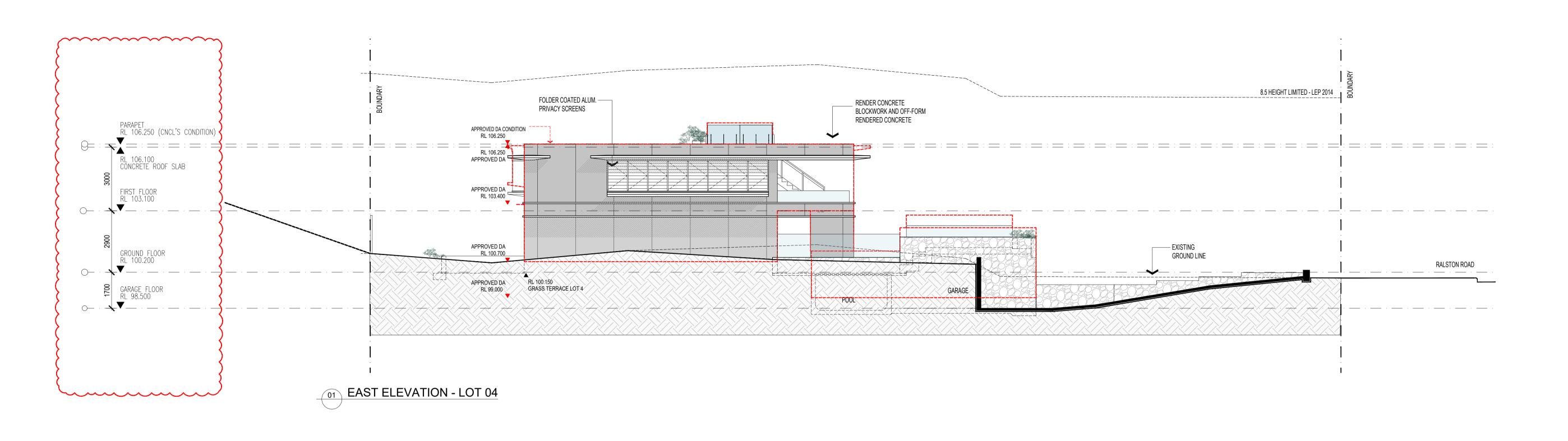
RALSTON RD PALM BEACH

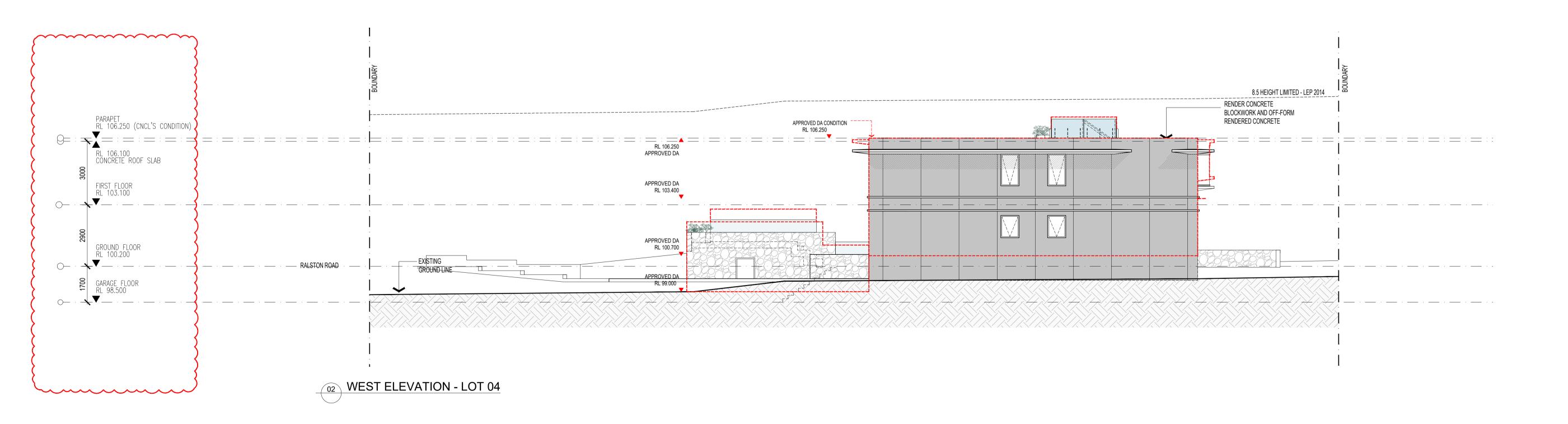
ELEVATIONS SHEET 02 - LOT 05

SCALE 1:100 @ A1 / 1:200 @ A3 APPROVED DRAWN JC CHECKED TG DATE APRIL 2022 STATUS S4:55

1. BUILDING HEIGHT INCREASED FOR FLOOR TO FLOOR & CEILING HEIGHT COMPLIANCE

APPROVED DA





ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART ABN 56 120 779 106 OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

© CRAWFORD ARCHITECTS PTY LTD 2019 SUITE 3.01, LEVEL 3 80 MOUNT STREET NORTH SYDNEY, NSW 2060 AUSTRALIA

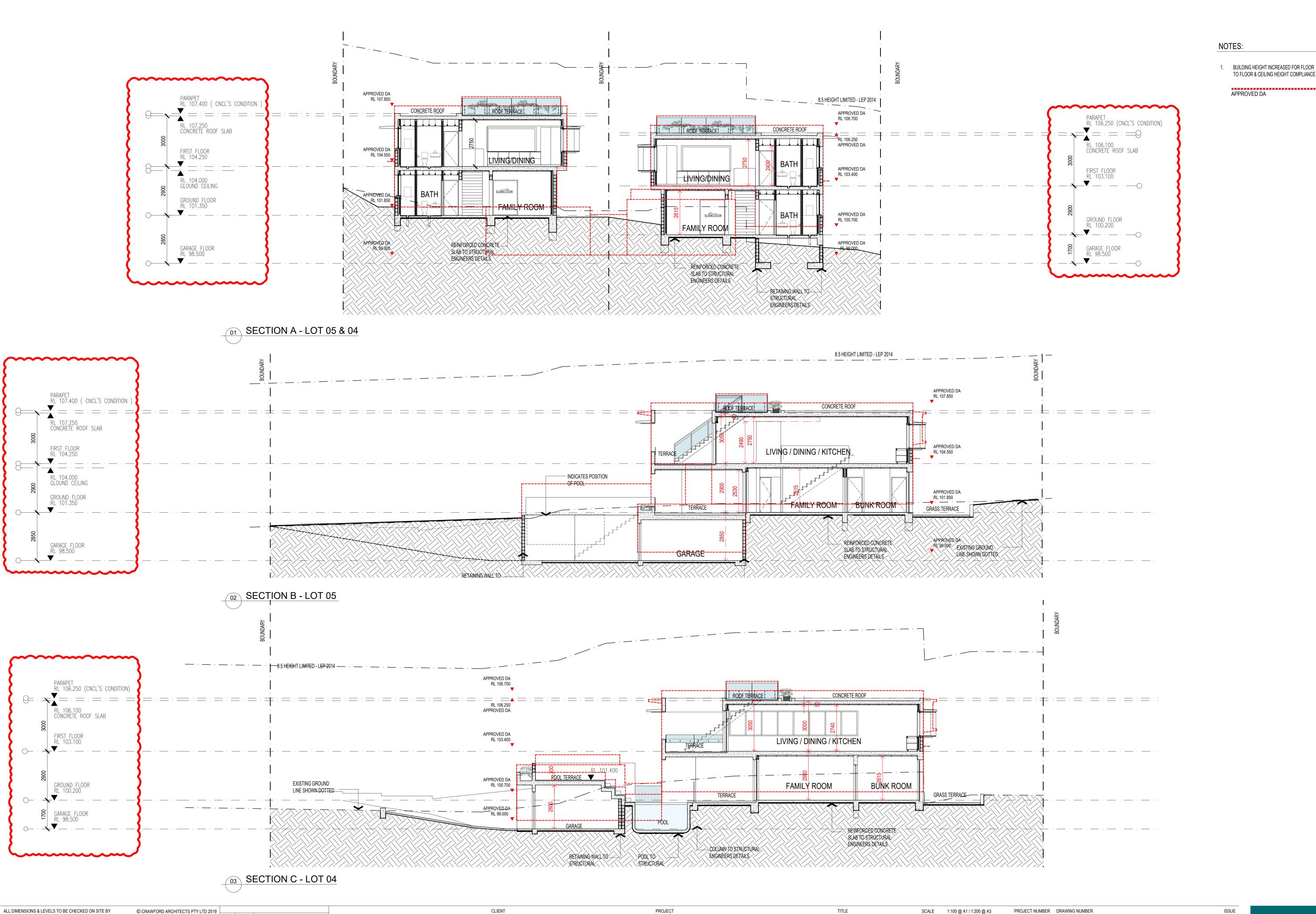
23.12.05 S4.55 APPLICATION ISSUE 23.09.29 S4.55 MODIFICATIONS FOR CONSULTANTS 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED 22.06.08 DA AMENDMENTS

**TONY & GEORGINA NASSIF** 

RALSTON RD PALM BEACH

ELEVATIONS SHEET 03 - LOT 04

SCALE 1:100 @ A1 / 1:200 @ A3 APPROVED DRAWN JC CHECKED TG DATE APRIL 2022 STATUS S4:55



TO FLOOR & CEILING HEIGHT COMPLIANCE

APPROVED DA

OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES &

ISSUE DATE AMENDMENTS



ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS
DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART

NORTH SYDNEY, NSW 2060 AUSTRALIA
ABN 56 120 779 106 NOMINATED ARCHITECTS:

SUITE 3.01, LEVEL 3 80 MOUNT STREET TONY GRAY 5303 & PAUL GODSELL 6726 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au APPROVED BY A DIRECTOR OF CRAWFORD ARCHITECTS PTY LTD E arch@crawford.com.au

© CRAWFORD ARCHITECTS PTY LTD 2019 23.12.05 S4.55 APPLICATION ISSUE 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED 03 22.08.10 CLIENT ISSUE 22.06.08 DA AMENDMENTS

01 22.05.05 PRELIMINARY ISSUES

ISSUE DATE AMENDMENTS

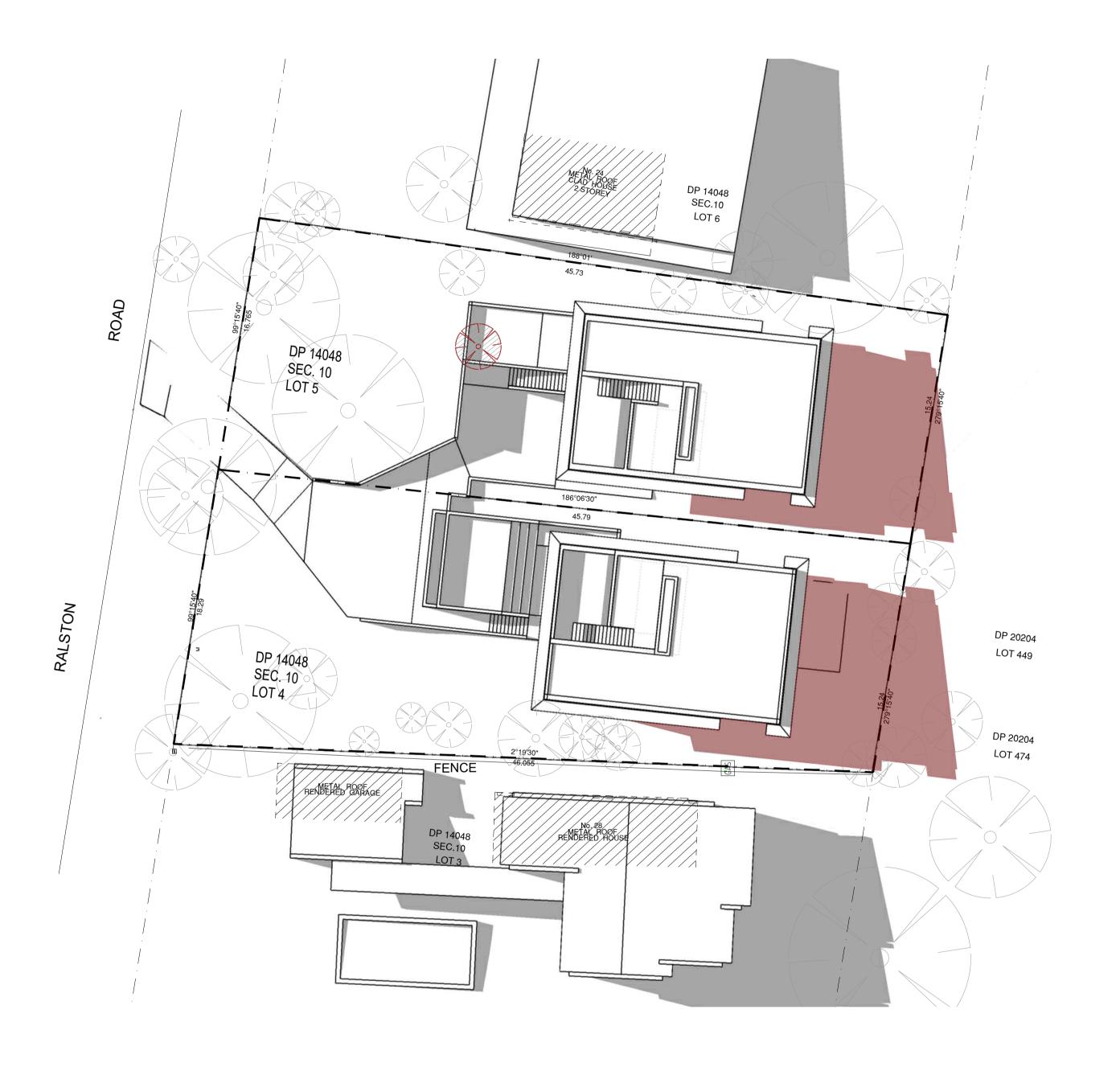
**TONY & GEORGINA NASSIF** 

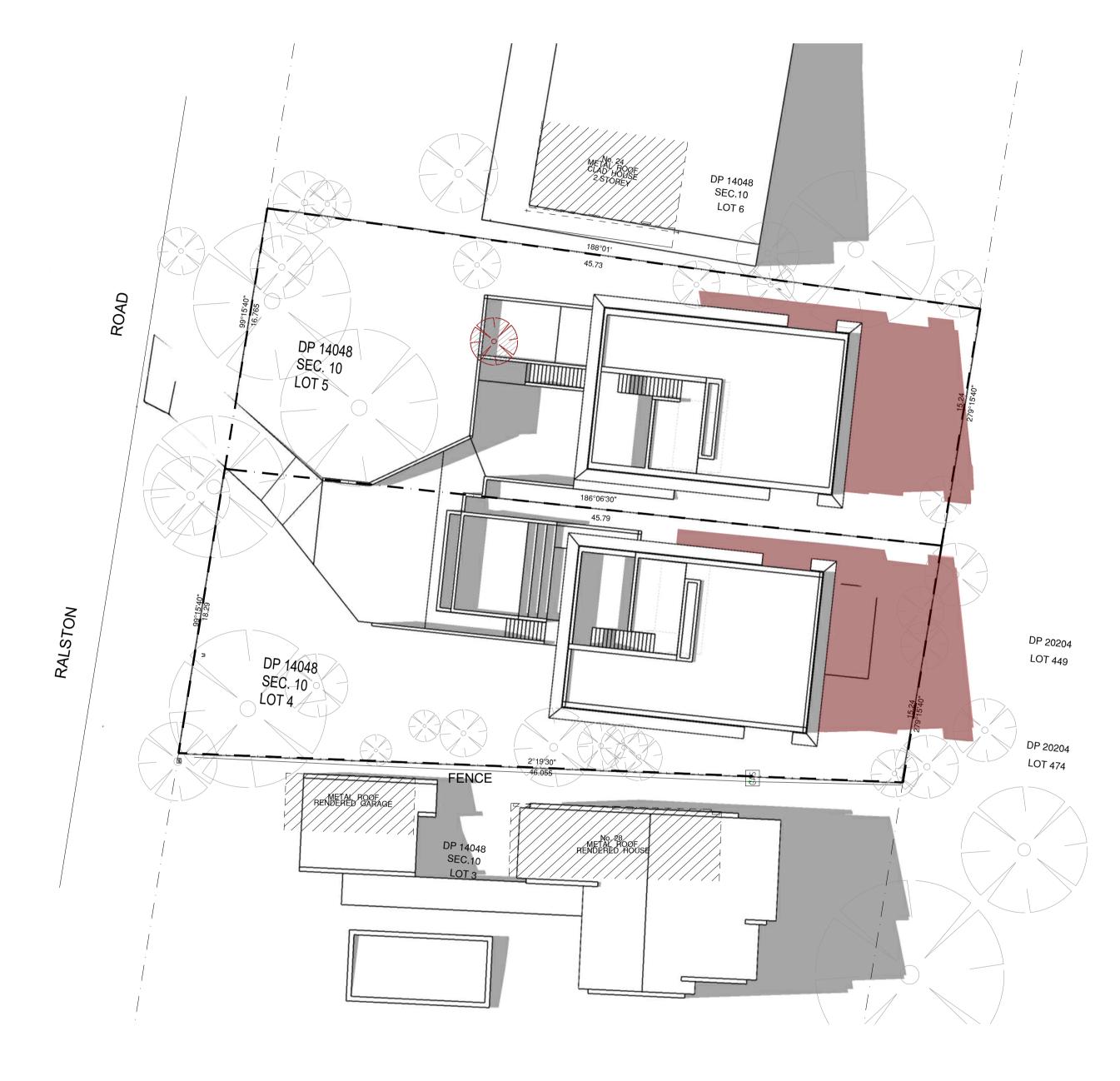
RALSTON RD PALM BEACH

SHADOW DIAGRAMS\_SH\_01

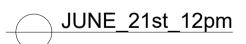








JUNE\_21st\_11am



ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS
DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART

NORTH SYDNEY, NSW 2060 AUSTRALIA
ABN 56 120 779 106 OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

NOMINATED ARCHITECTS: THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au APPROVED BY A DIRECTOR OF CRAWFORD ARCHITECTS PTY LTD E arch@crawford.com.au

SUITE 3.01, LEVEL 3 80 MOUNT STREET

© CRAWFORD ARCHITECTS PTY LTD 2019 23.12.05 S4.55 APPLICATION ISSUE 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED TONY GRAY 5303 & PAUL GODSELL 6726 03 22.08.10 CLIENT ISSUE 22.06.08 DA AMENDMENTS

01 22.05.05 PRELIMINARY ISSUES

ISSUE DATE AMENDMENTS

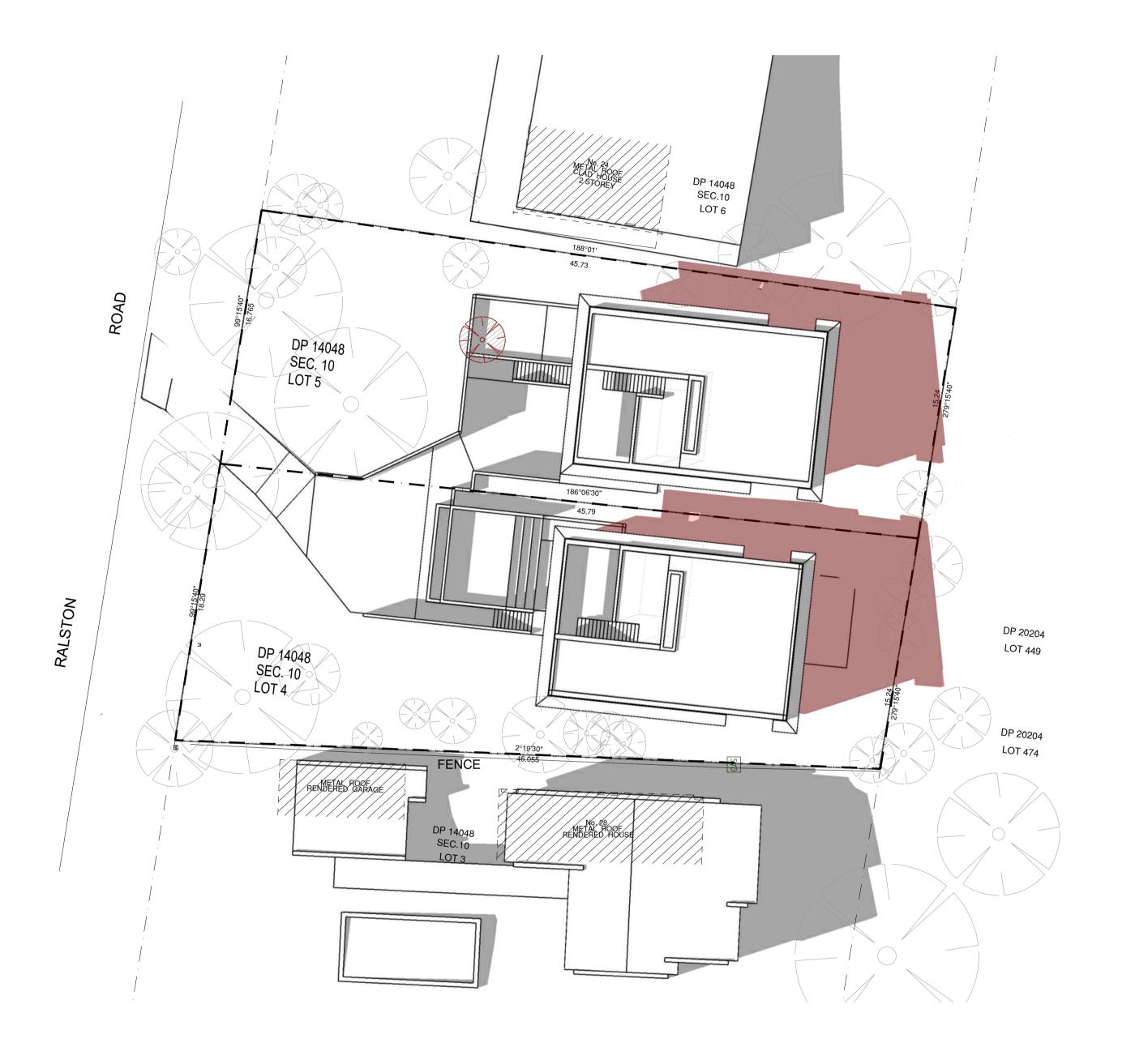
**TONY & GEORGINA NASSIF** 

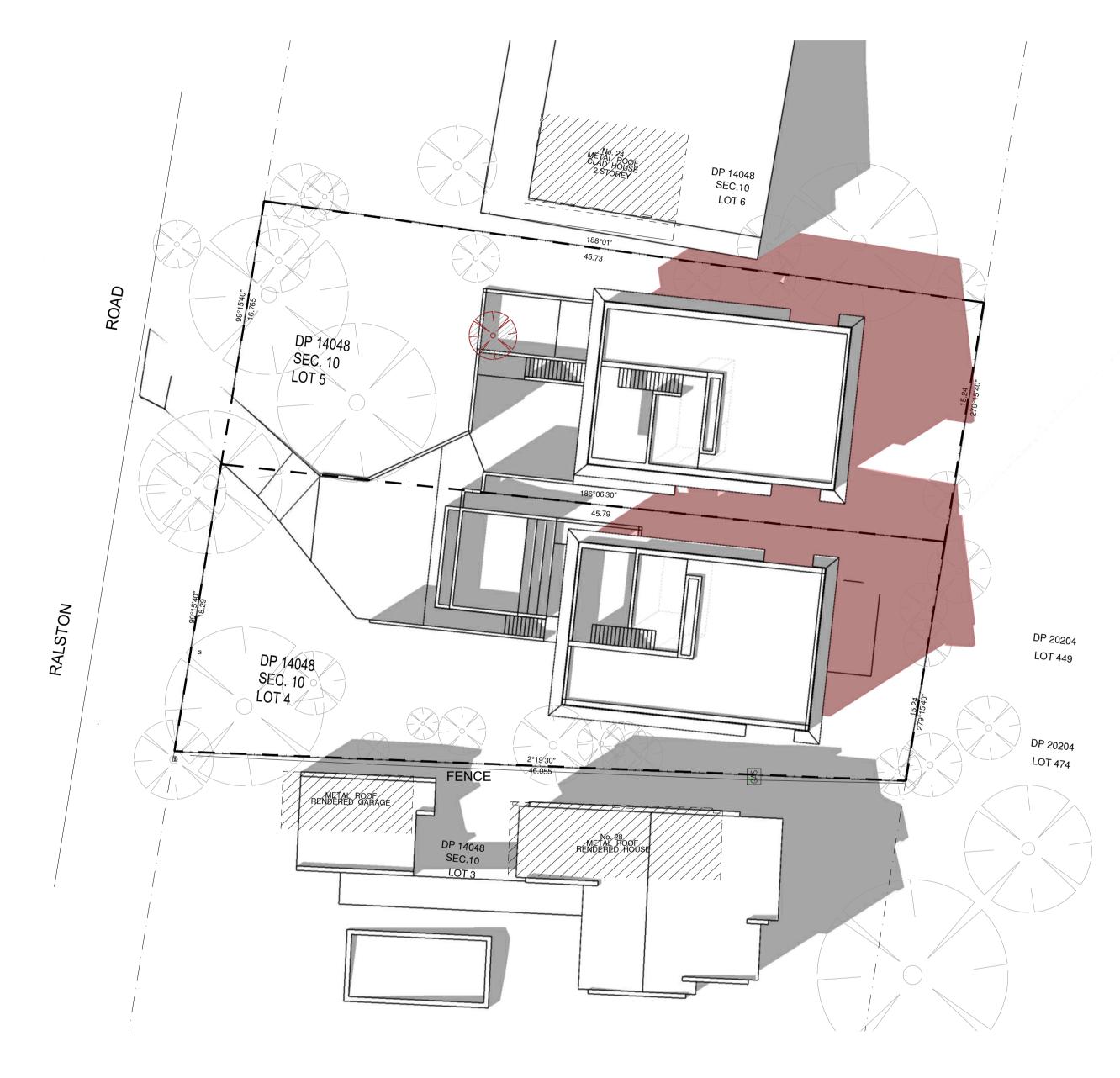
RALSTON RD PALM BEACH

SHADOW DIAGRAMS\_SH\_02









JUNE\_21st\_1pm

JUNE\_21st\_2pm

ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS
DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART

NORTH SYDNEY, NSW 2060 AUSTRALIA
ABN 56 120 779 106 NOMINATED ARCHITECTS:

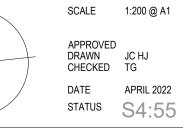
© CRAWFORD ARCHITECTS PTY LTD 2019 SUITE 3.01, LEVEL 3 80 MOUNT STREET

23.12.05 S4.55 APPLICATION ISSUE 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED TONY GRAY 5303 & PAUL GODSELL 6726 03 22.08.10 CLIENT ISSUE 22.06.08 DA AMENDMENTS THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au APPROVED BY A DIRECTOR OF CRAWFORD ARCHITECTS PTY LTD E arch@crawford.com.au 01 22.05.05 PRELIMINARY ISSUES ISSUE DATE AMENDMENTS

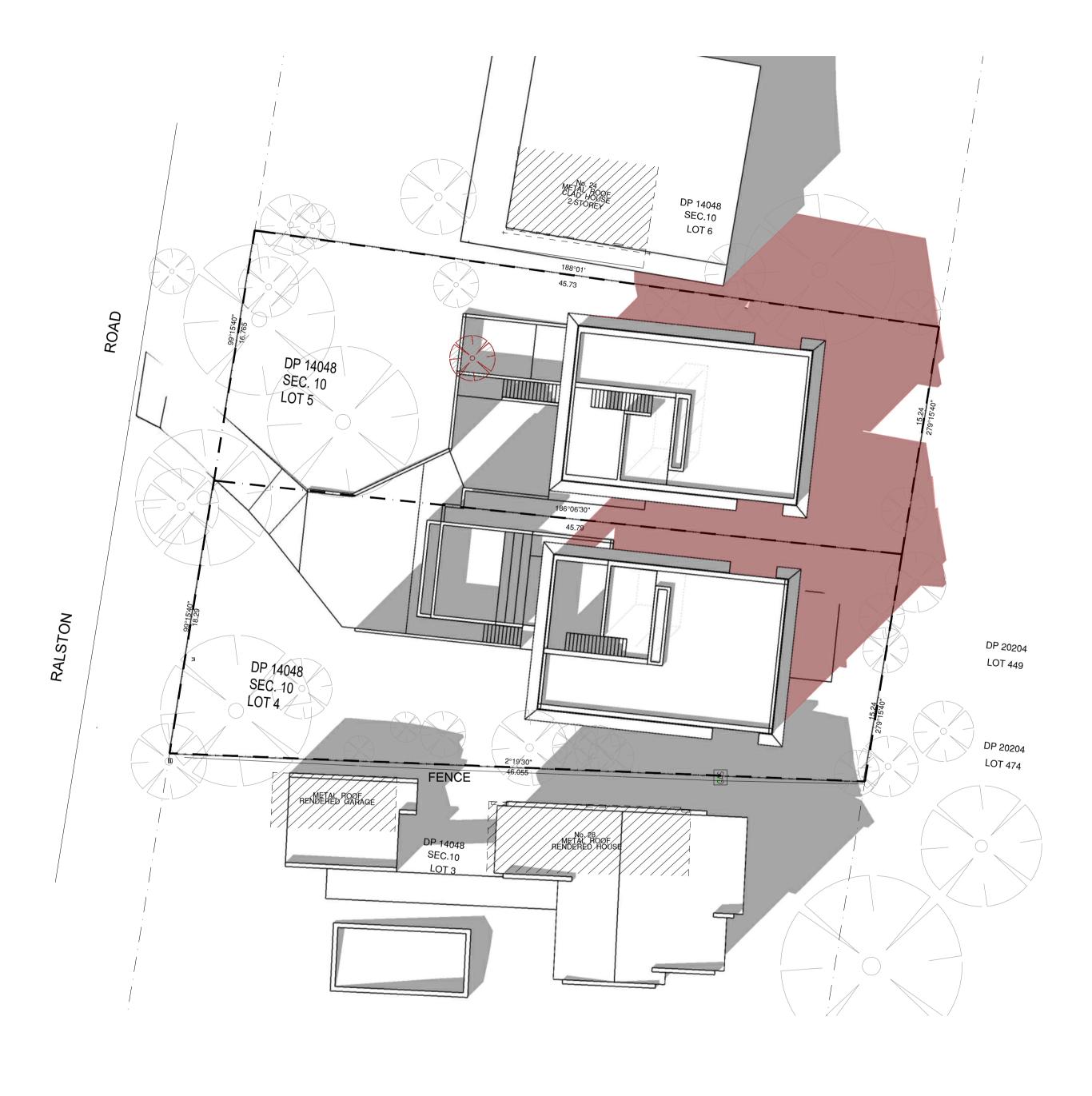
**TONY & GEORGINA NASSIF** 

RALSTON RD PALM BEACH

SHADOW DIAGRAMS\_SH\_03







JUNE\_21st\_3pm

ALL DIMENSIONS & LEVELS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL BOUNDARIES & CONTOURS SUBJECT TO SURVEY. ALL RIGHTS RESERVED. THIS OR IN WHOLE WITHOUT THE PERMISSION OF CRAWFORD

DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED, IN PART ABN 56 120 779 106 NOMINATED ARCHITECTS:

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS P 02 9660 3644 www.crawford.com.au APPROVED BY A DIRECTOR OF CRAWFORD ARCHITECTS PTY LTD E arch@crawford.com.au

© CRAWFORD ARCHITECTS PTY LTD 2019 SUITE 3.01, LEVEL 3 80 MOUNT STREET NORTH SYDNEY, NSW 2060 AUSTRALIA TONY GRAY 5303 & PAUL GODSELL 6726 03 22.08.10 CLIENT ISSUE

23.12.05 S4.55 APPLICATION ISSUE 23.08.28 S4.55 MODIFICATIONS ADJUSTED 22.09.26 S4.55 MODIFICATIONS HIGHLIGHTED 22.06.08 DA AMENDMENTS 01 22.05.05 PRELIMINARY ISSUES

ISSUE DATE AMENDMENTS

**TONY & GEORGINA NASSIF** 

RALSTON RD PALM BEACH

SHADOW DIAGRAMS\_SH\_04

