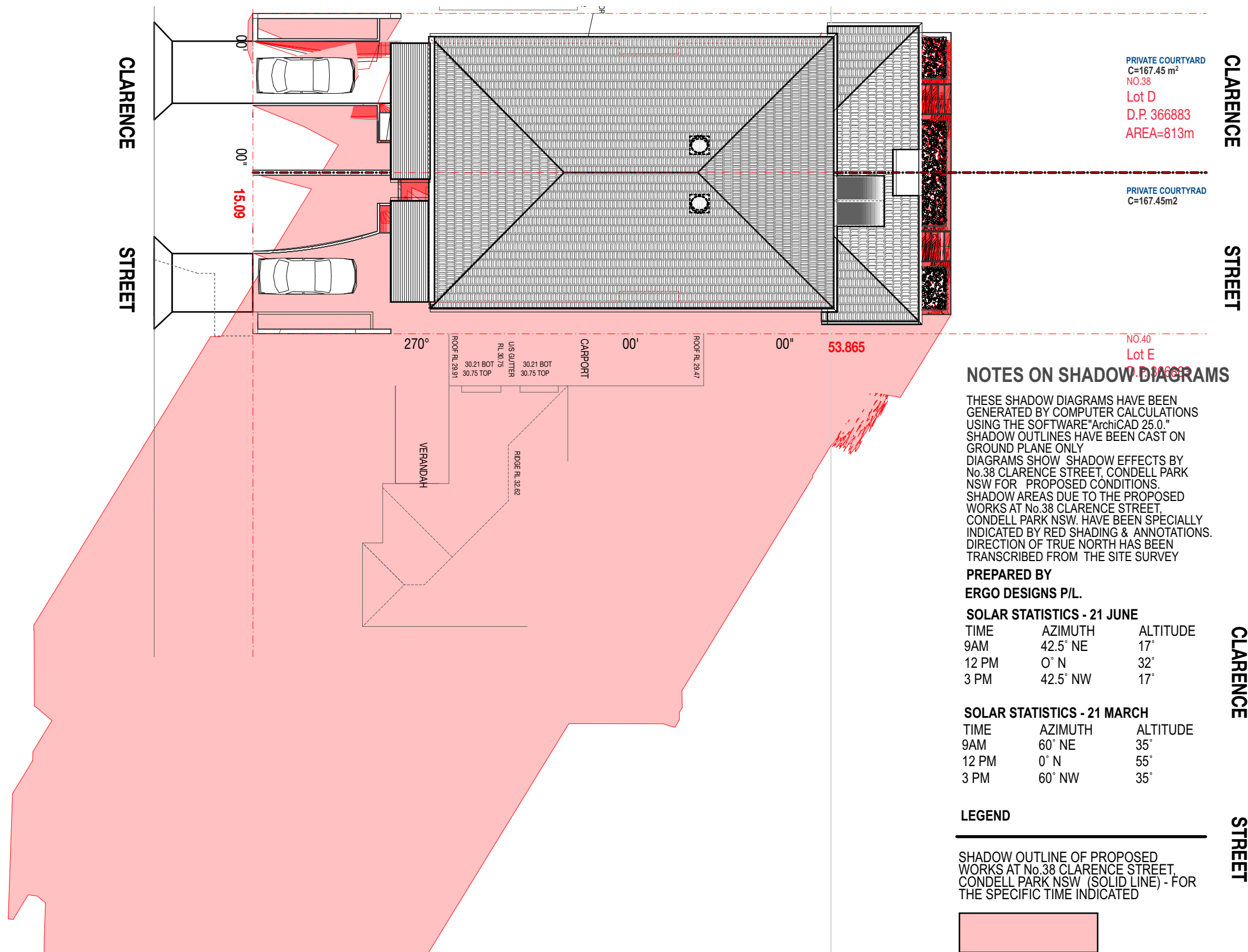
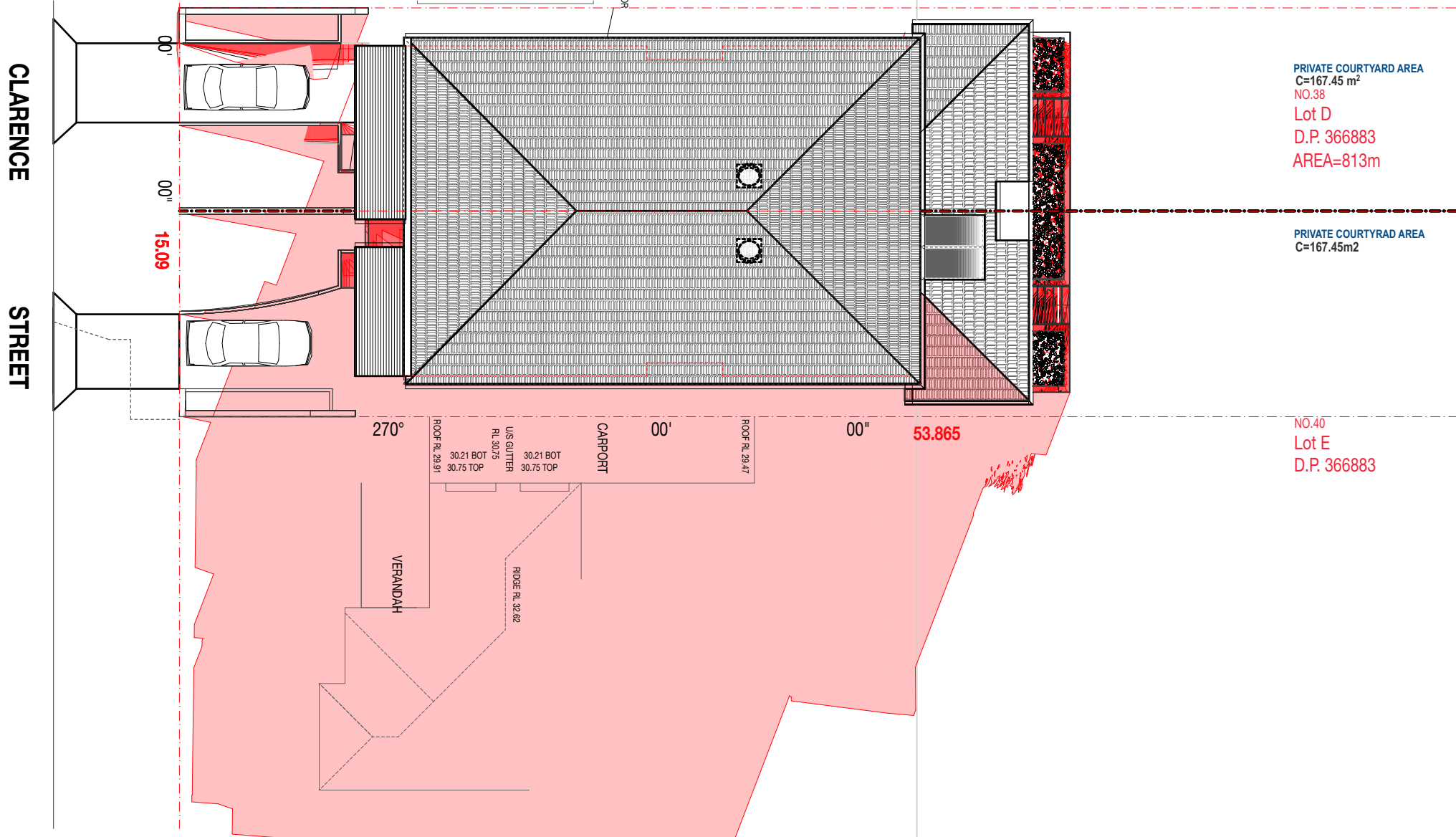
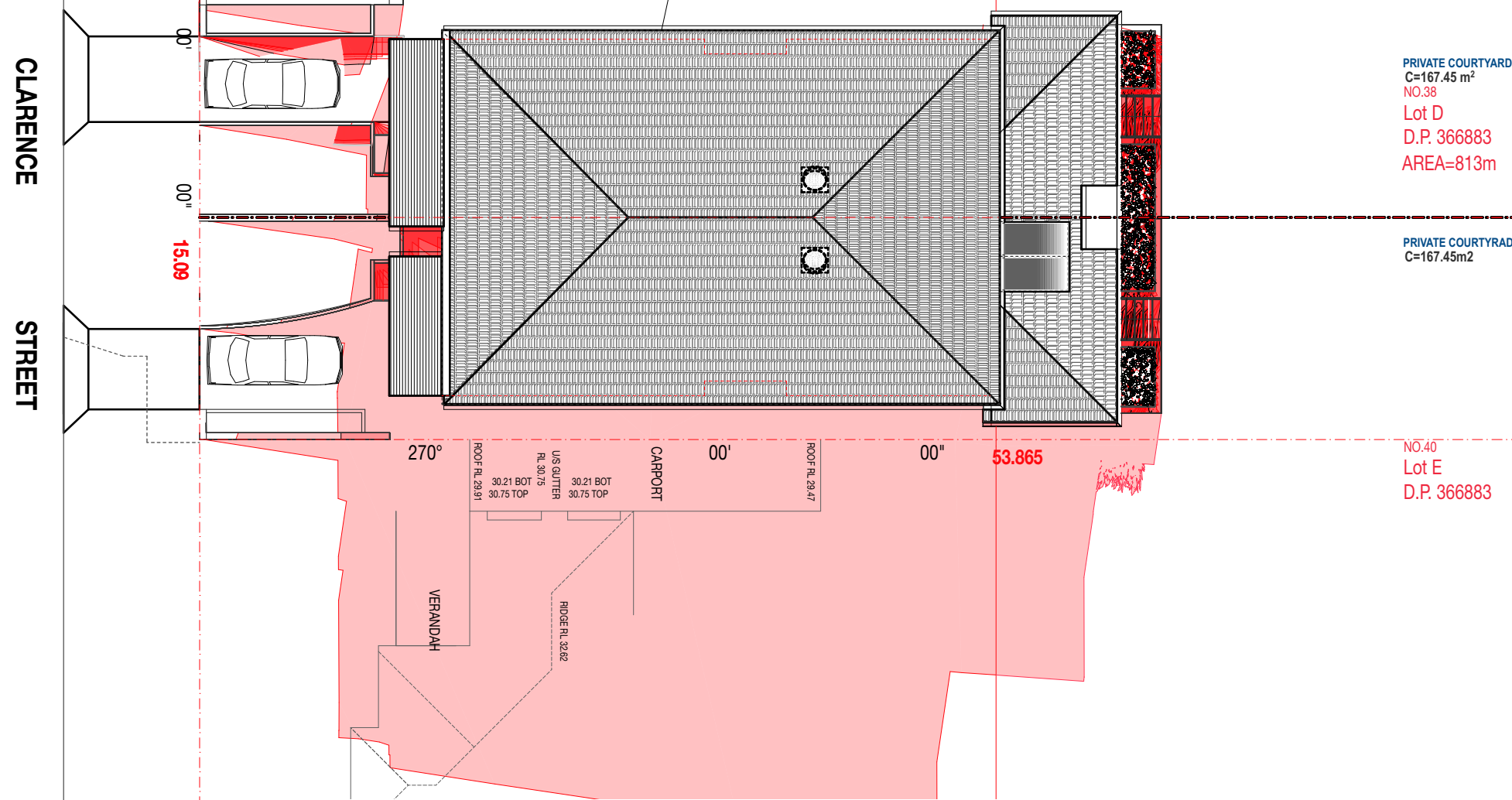




8.0am PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



9.0am PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



10.0am PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200

NOTES ON SHADOW DIAGRAMS

THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY COMPUTER CALCULATIONS USING THE SOFTWARE 'ARCADE 25.0'. SHADOW OUTLINES HAVE BEEN CAST ON GROUND PLANE ONLY. DIAGRAMS SHOW SHADOW EFFECTS BY NO. 38 CLARENCE STREET, CONDELL PARK NSW FOR PROPOSED CONDITIONS. SHADOW AREAS DUE TO THE PROPOSED WORKS AT NO. 38 CLARENCE STREET, CONDELL PARK NSW, HAVE BEEN SPECIALLY INDICATED BY RED SHADING & ANNOTATIONS. DIRECTION OF TRUE NORTH HAS BEEN TRANSCRIBED FROM THE SITE SURVEY.

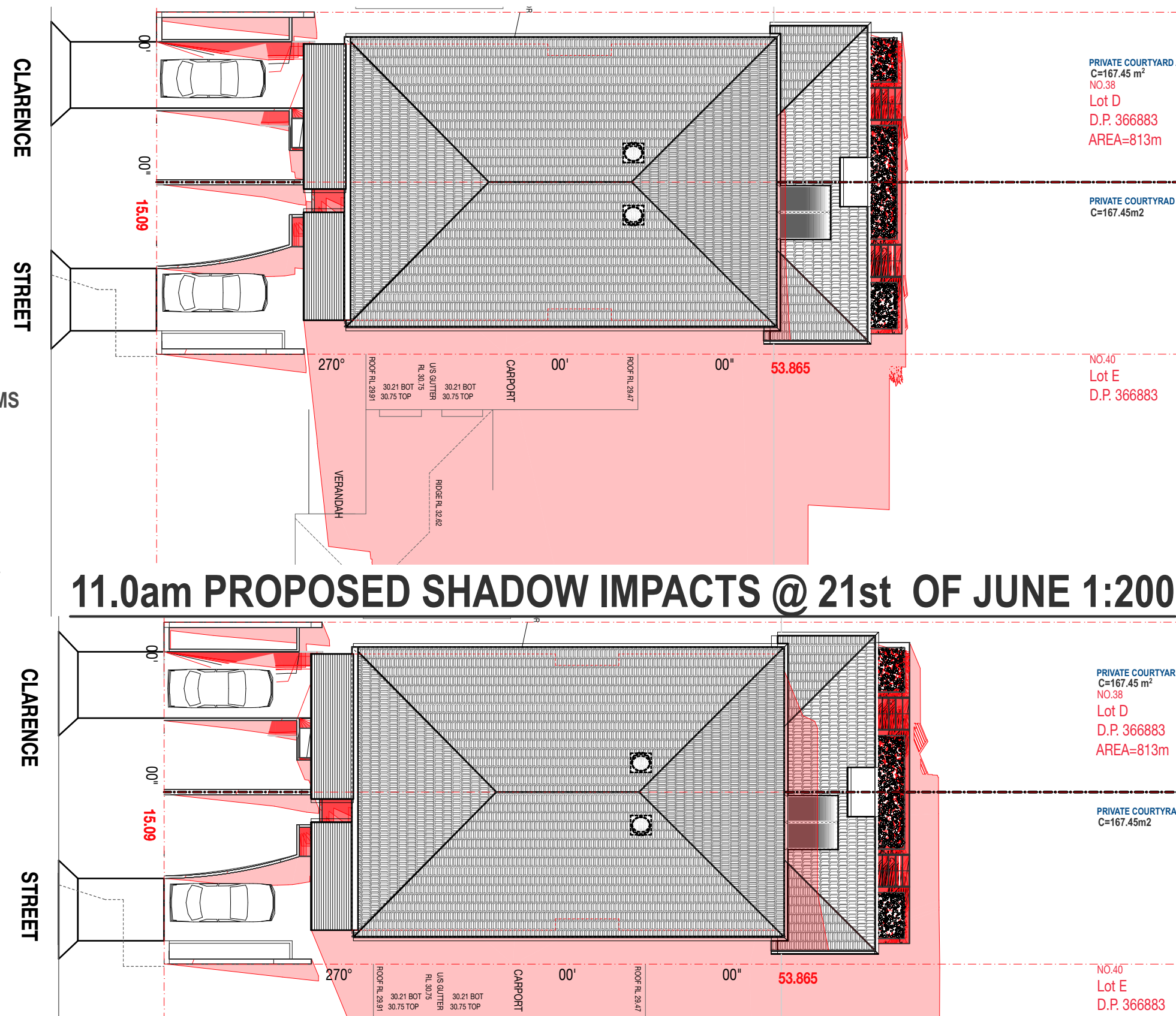
PREPARED BY
ERGO DESIGNS P/L

SOLAR STATISTICS - 21 JUNE
TIME AZIMUTH ALTITUDE
9AM 42.5° NE 17°
12 PM 0° N 32°
3 PM 42.5° NW 17°

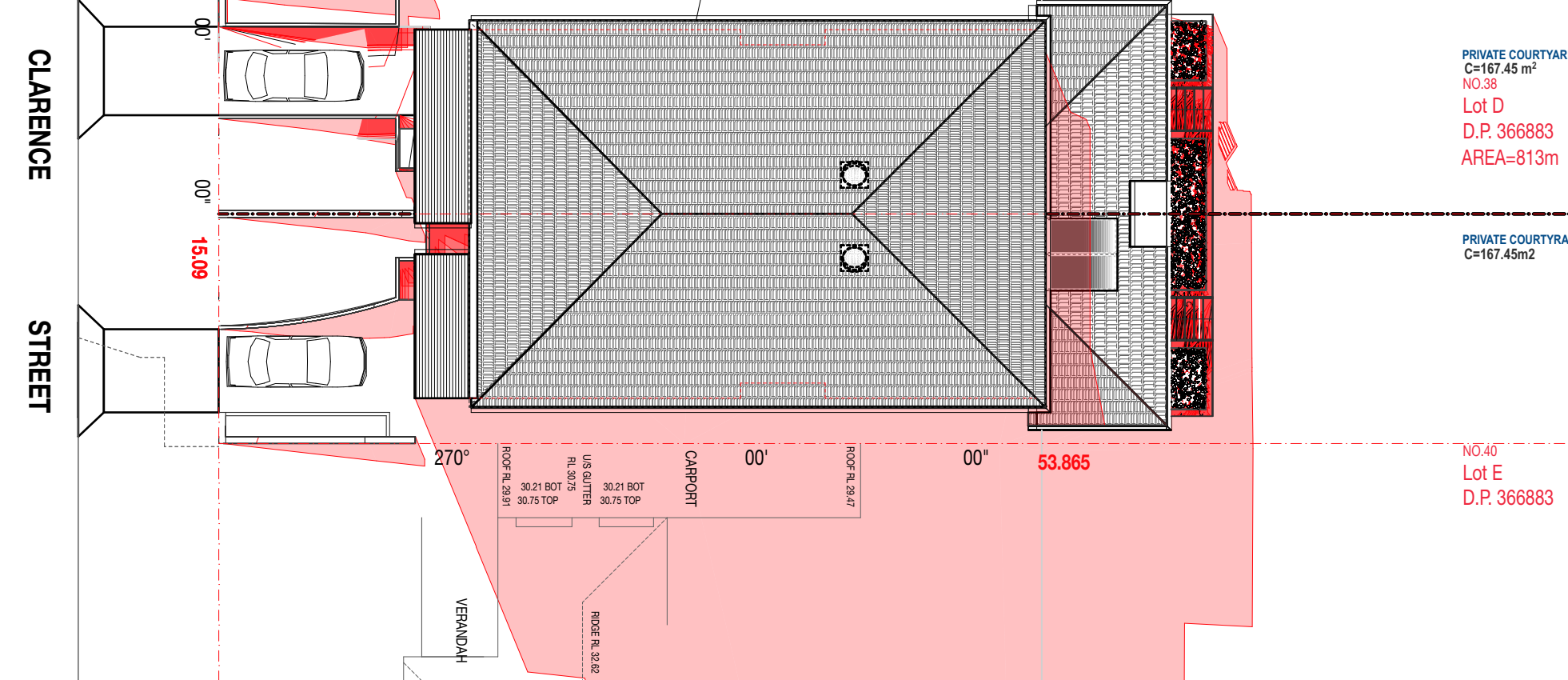
SOLAR STATISTICS - 21 MARCH
TIME AZIMUTH ALTITUDE
9AM 60° NE 35°
12 PM 0° N 55°
3 PM 60° NW 35°

LEGEND

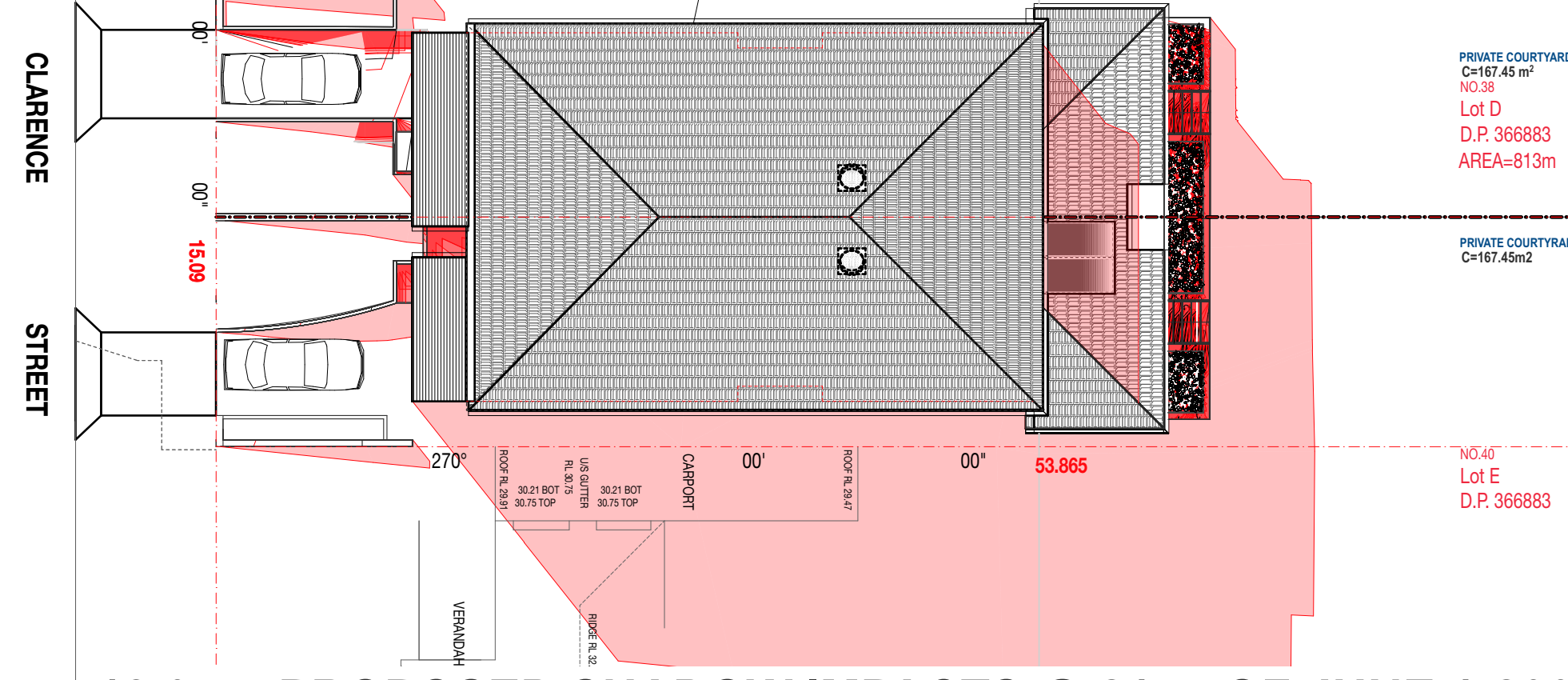
SHADOW OUTLINE OF PROPOSED WORKS AT NO. 38 CLARENCE STREET, CONDELL PARK NSW (SOLID LINE) - FOR THE SPECIFIC TIME INDICATED



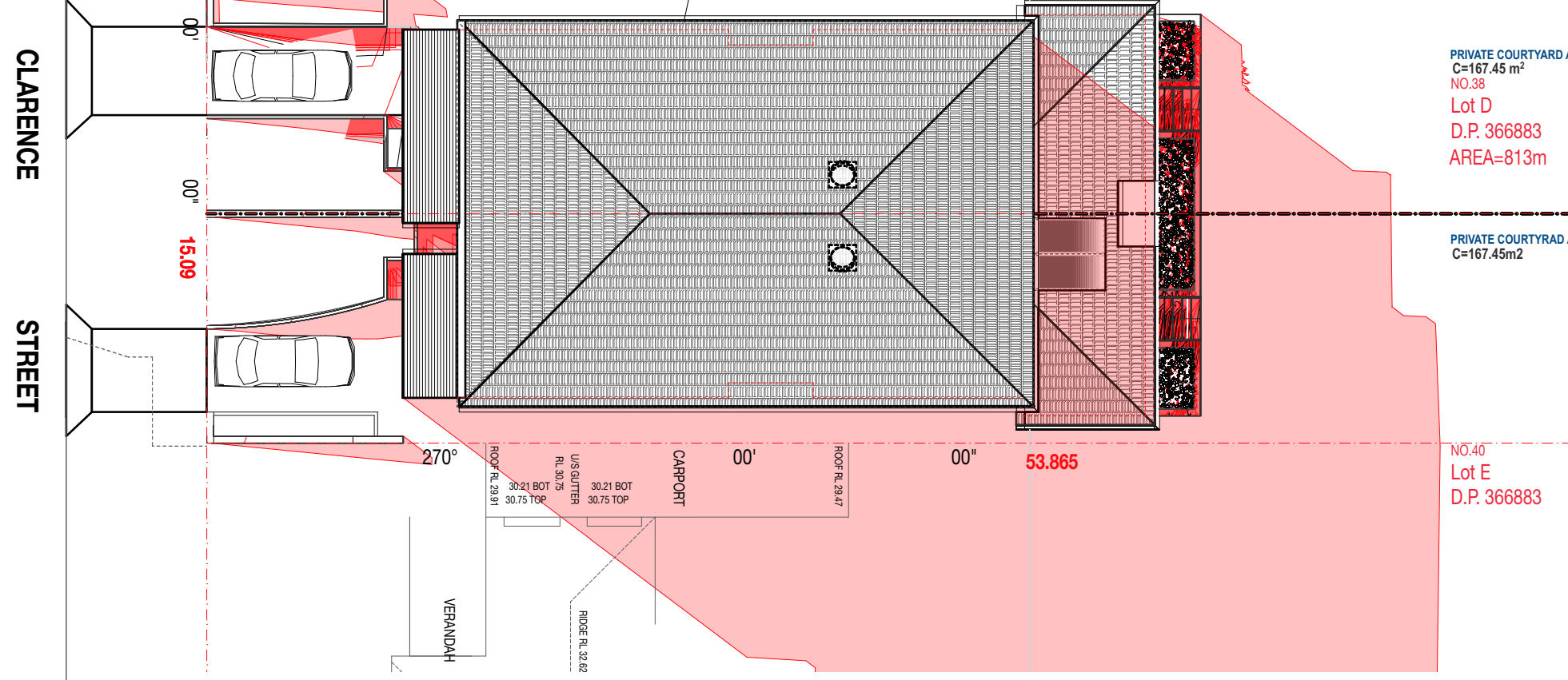
11.0am PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



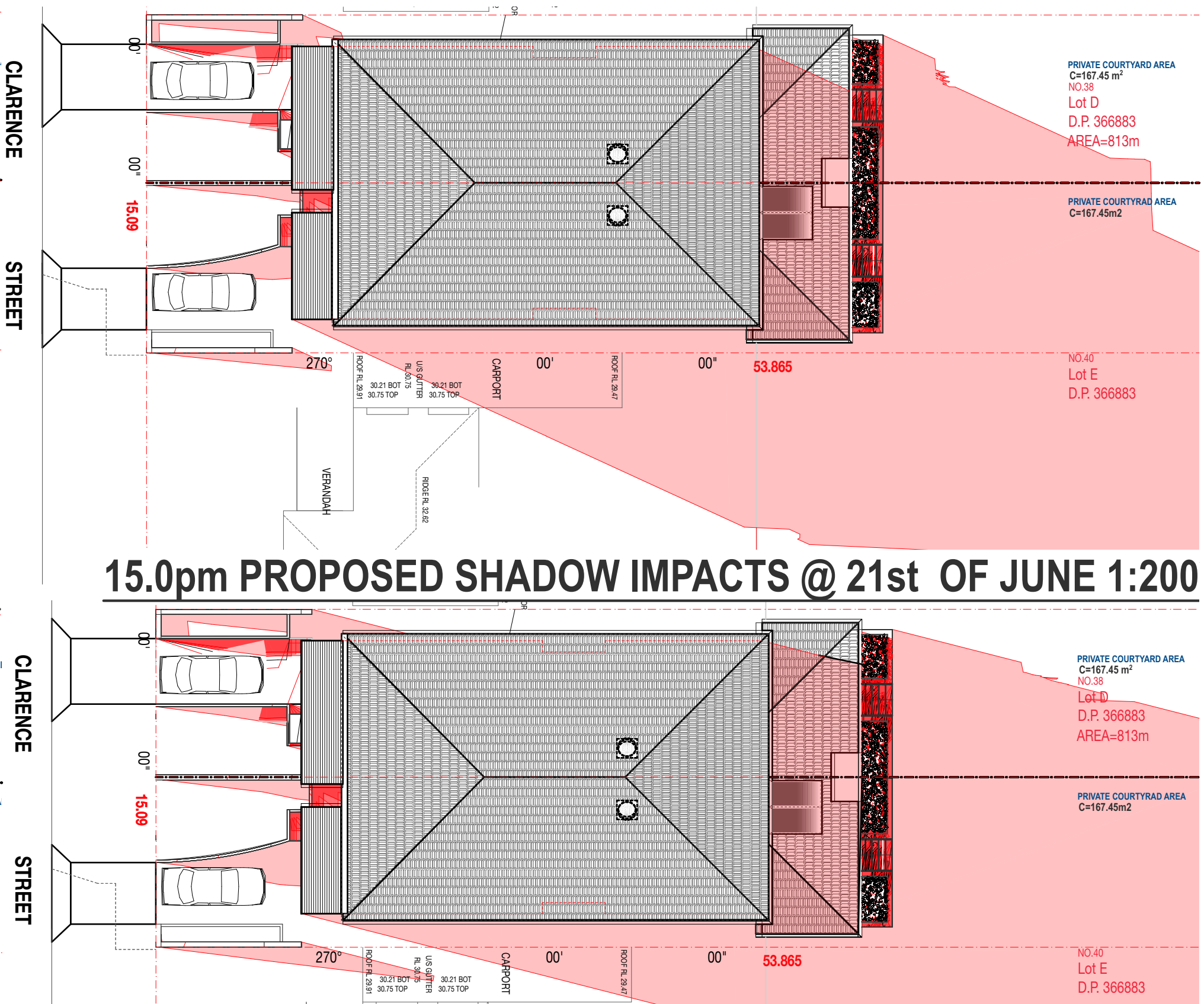
12.0pm PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



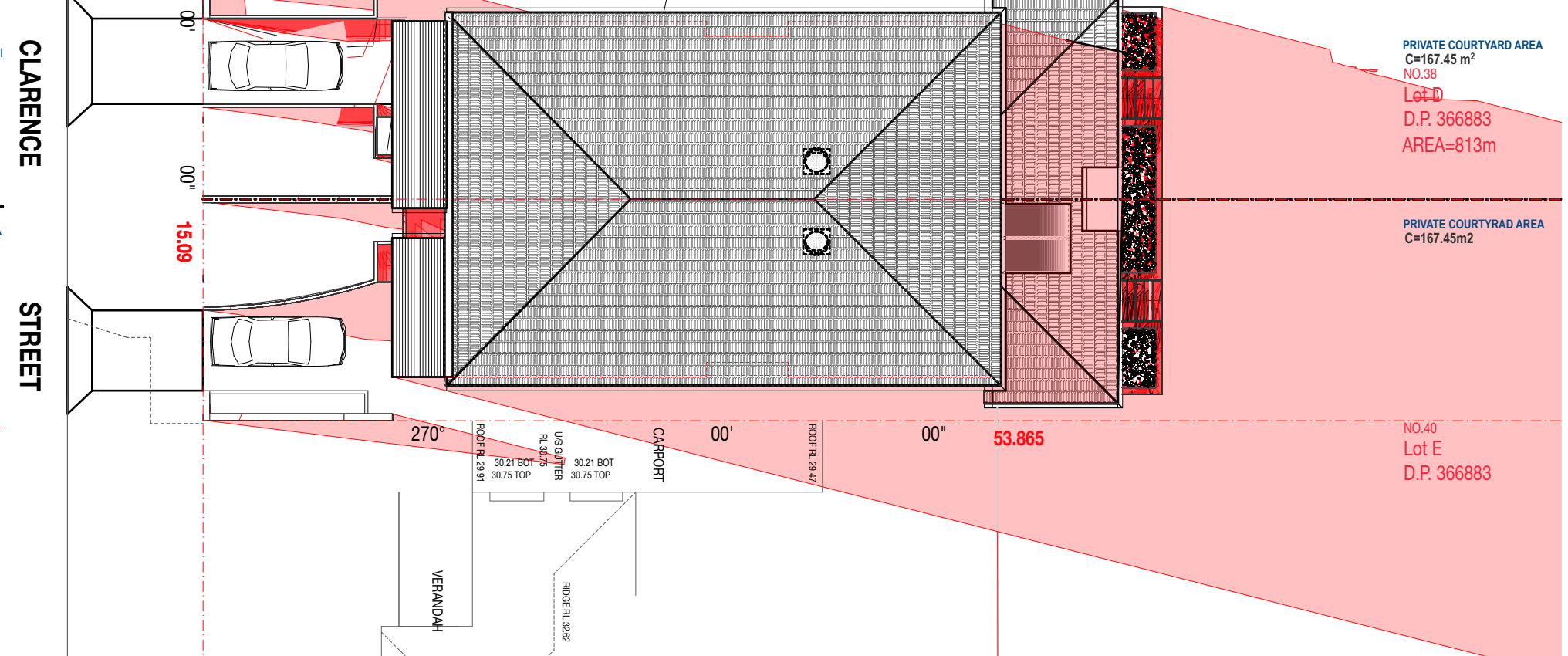
13.0pm PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



14.0pm PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



15.0pm PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



16.0pm PROPOSED SHADOW IMPACTS @ 21st OF JUNE 1:200



NO. 40 CLARENCE STREET- (NOTE NO WINDOWS @ SITE FACING PROPOSED DEVELOPMENT APART FROM 2 HIGH WINDOWS + ATTACHED SIDE CARPORT)
LOUNGE ROOM IS FACING THE FRONT WITH LARGE WINDOW FACING THE STREET- PICK UP AFTERNOON SUNLIGHT.

DCP CONTROLS:
Access to sunlight
4.15 At least one living area of each dwelling must receive a minimum 3 hours of sunlight between 8.00am and 4.00pm at the mid-winter solstice. Council may allow light wells and skylights to supplement this access to sunlight provided these building elements are not the primary source of sunlight to the living areas.
4.16 At least one living area of a dwelling on an adjoining allotment must receive a minimum 3 hours of sunlight between 8.00am and 4.00pm at the mid-winter solstice. Where this requirement cannot be met, the development must not result with additional overshadowing on the affected living areas of the dwelling.
4.17 A minimum 50% of the private open space required for each dwelling and a minimum 50% of the private open space of a dwelling on an adjoining allotment must receive at least 3 hours of sunlight between 9.00am and 5.00pm at the equinox. Where this requirement cannot be met for a dwelling on an adjoining allotment, the development must not result with additional overshadowing on the affected private open space.
4.18 Development should avoid overshadowing any existing solar hot water system, photovoltaic panel or other solar collector on the allotment and neighbouring properties.

DCP CONTROLS:
Access to sunlight
4.15 Lounge room to Unit A- enjoys more than 3 hours of sunlight during the mid winter period as it has a window facing north. Lounge room to Unit B- enjoys the minimum 3 hours of sunlight required via the large rear sliding door & overhead skylights to the roof over the rear verandah- see 3d views on the shadow plans.
4.16 Although all the shadows are cast on the southern adjoining property No. 40, there is no impact on to the windows of the lounge room as the lounge room large window is facing the front(western) with more than 3 hours of sunlight accessing the living room. In fact all the proposed shadows are cast on the roof of the existing attached adjoining carport and the roof of the dwelling. There are no large windows facing the proposed development apart from 2 high cross ventilation windows which are secondary windows.
4.17 Both private courtyards and the southern adjoining private courtyard @ No. 40, enjoy at least 5 hours of morning sunlight between 9.0am & 2.00pm in both mid winter & equinox part of the year for well above the minimum required 50% of their relevant area. Consideration should be giving to the fact that the private courtyard @ No. 40 is a tennis court area for whatever that may mean.
4.18 There are no existing solar hot water system, photovoltaic panel or other solar collector on the allotment and neighbouring property at No. 40.
For reference to the above comments refer to both shadow diagrams (winter & equinox period) as well as the photograph 3d views and comments on these shadow diagram pages.



8.00am SUNLIGHT ACCESS TO LOUNGE IN PROPOSED UNIT 2



9.00am SUNLIGHT ACCESS TO LOUNGE IN PROPOSED UNIT 2



10.00am SUNLIGHT ACCESS TO LOUNGE IN PROPOSED UNIT 2



11.00am SUNLIGHT ACCESS TO LOUNGE IN PROPOSED UNIT 2

Mr M NGUYEN
38 CLARENCE STREET, CONDELL
PARK NSW

client

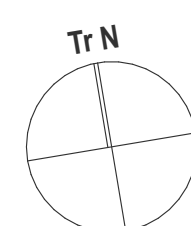
NEW TWO STOREY ATTACHED
DUAL OCCUPANCY & S/DIVISION
project
38
CLARENCE STREET,
CONDELL PARK
address

Ergo Designs P/L

building designers and consultants
334A homer st earlwood nsw 2206 ph: 9558 1233
e-mail: ergo-des@bigpond.net.au

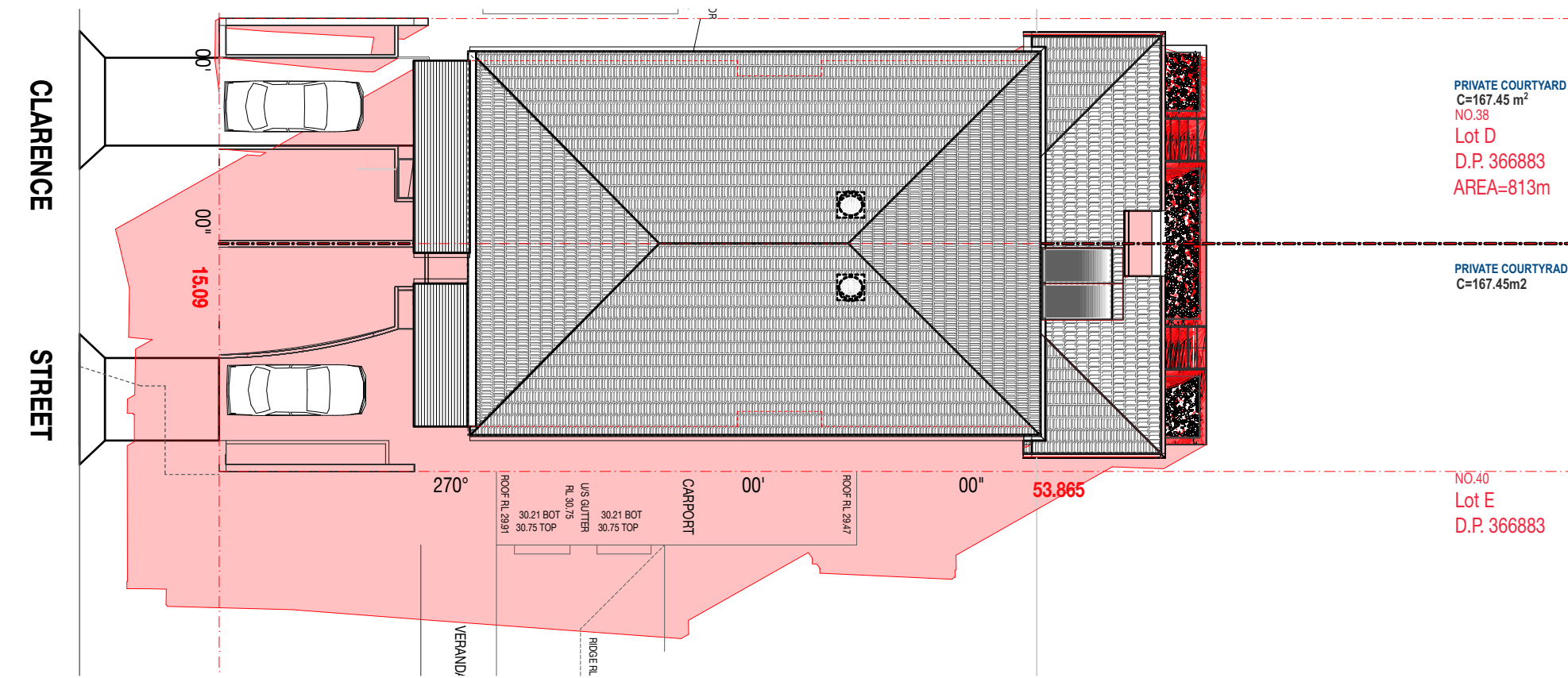
bdca
ACCREDITED
BUILDING DESIGNER

Accreditation No.6667

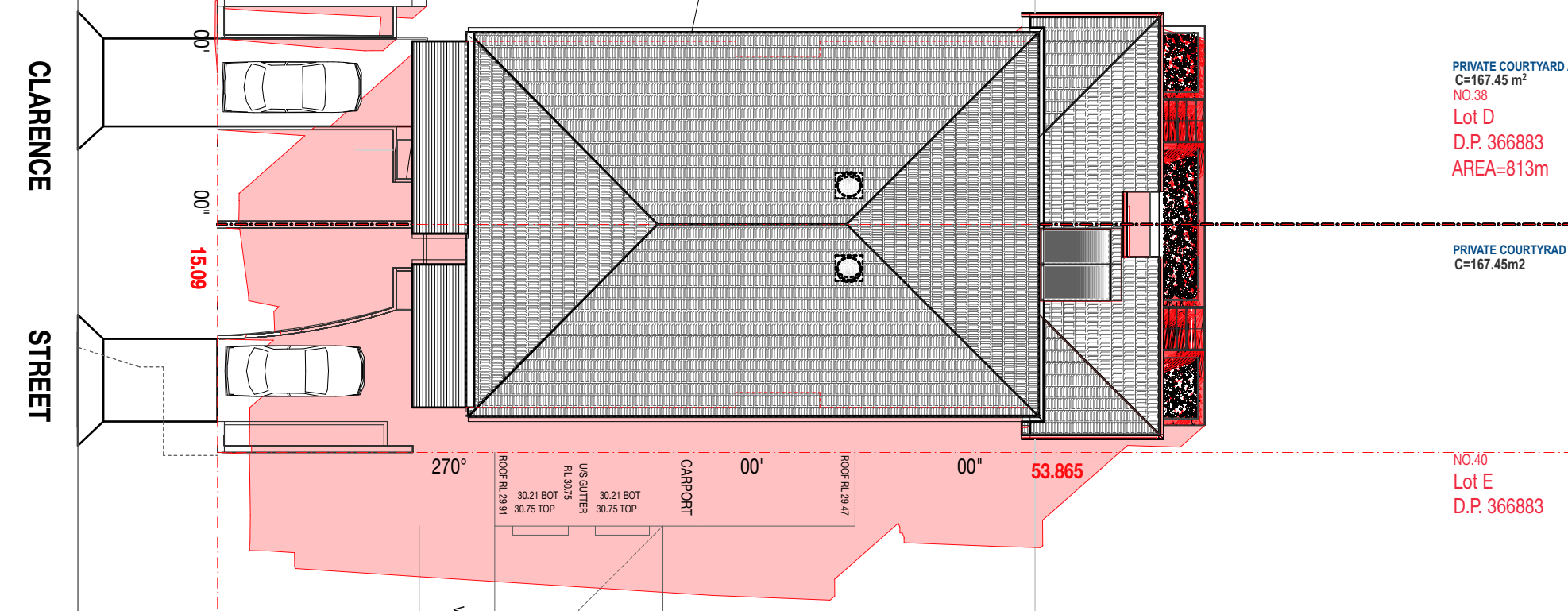


SHADOW DIAGRAMS- WINTER
drawing

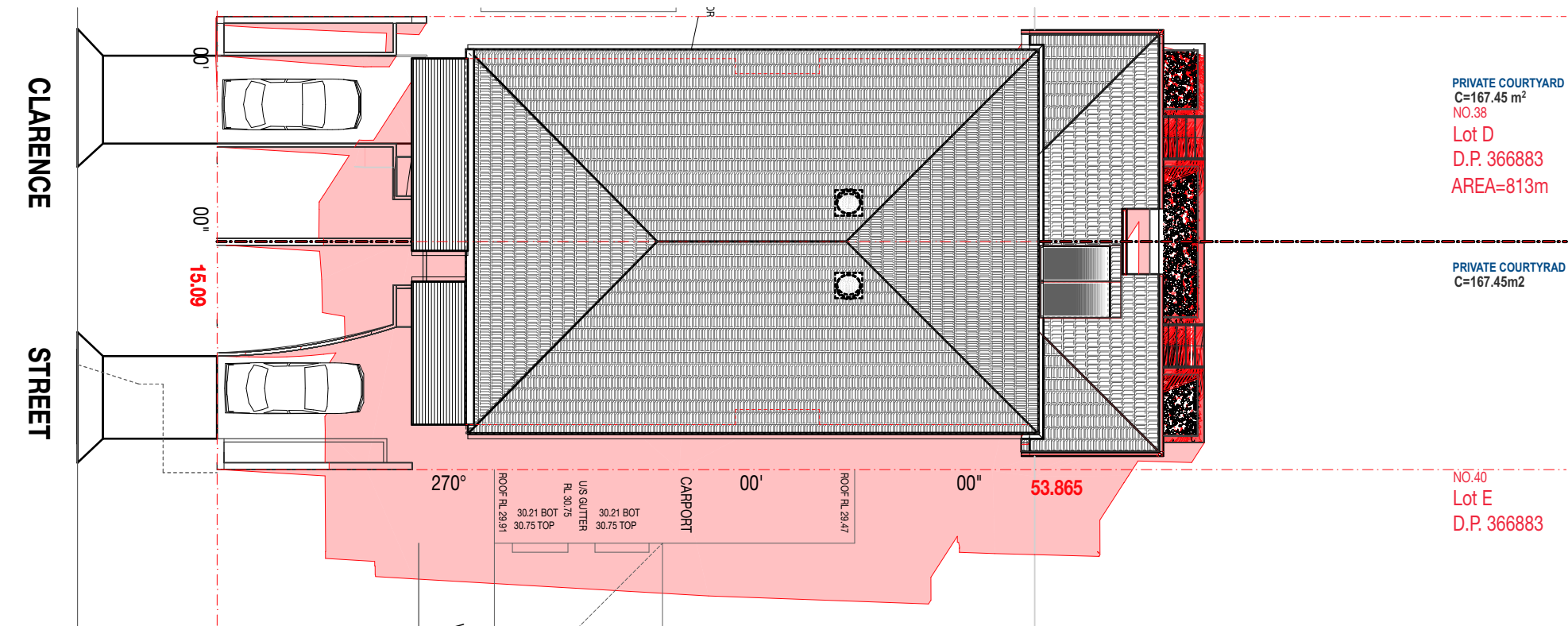
322-104
project
A08
drawing no.
A
issue
29/4/22



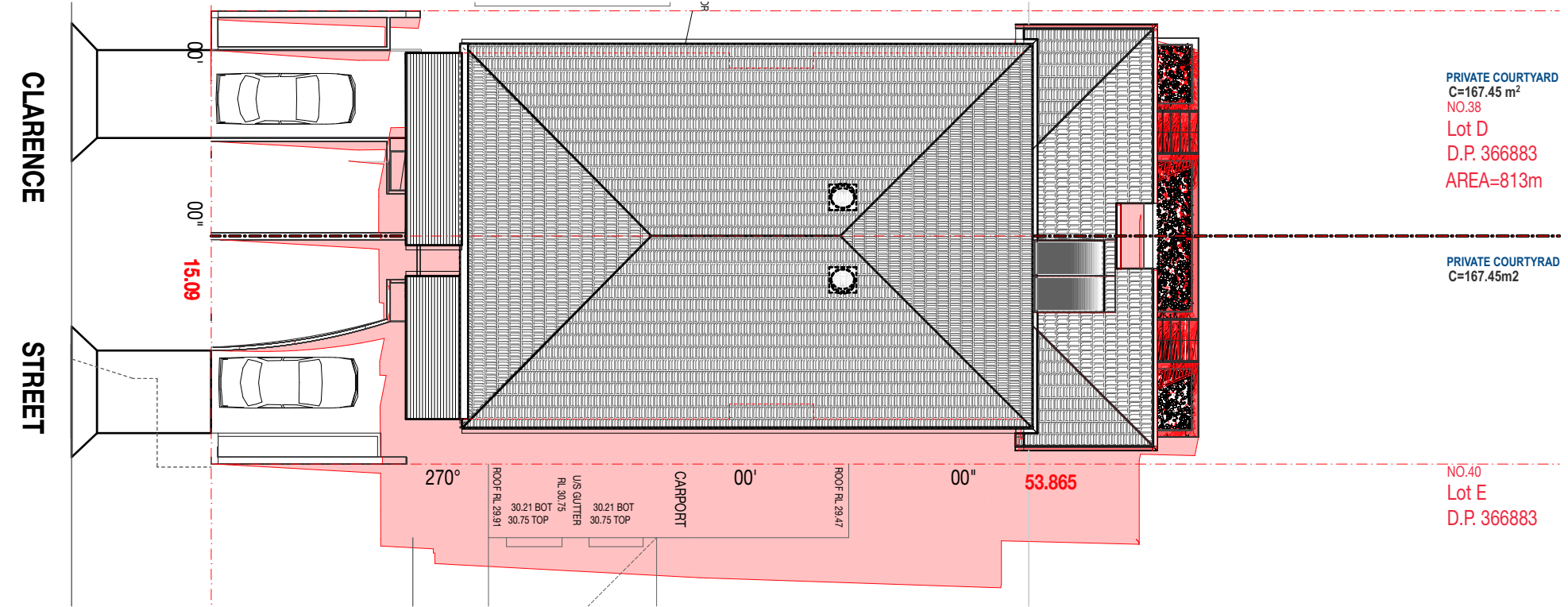
8.0am PROPOSED SHADOW IMPACTS @ 23rd OF SEPTEMBER 1:200



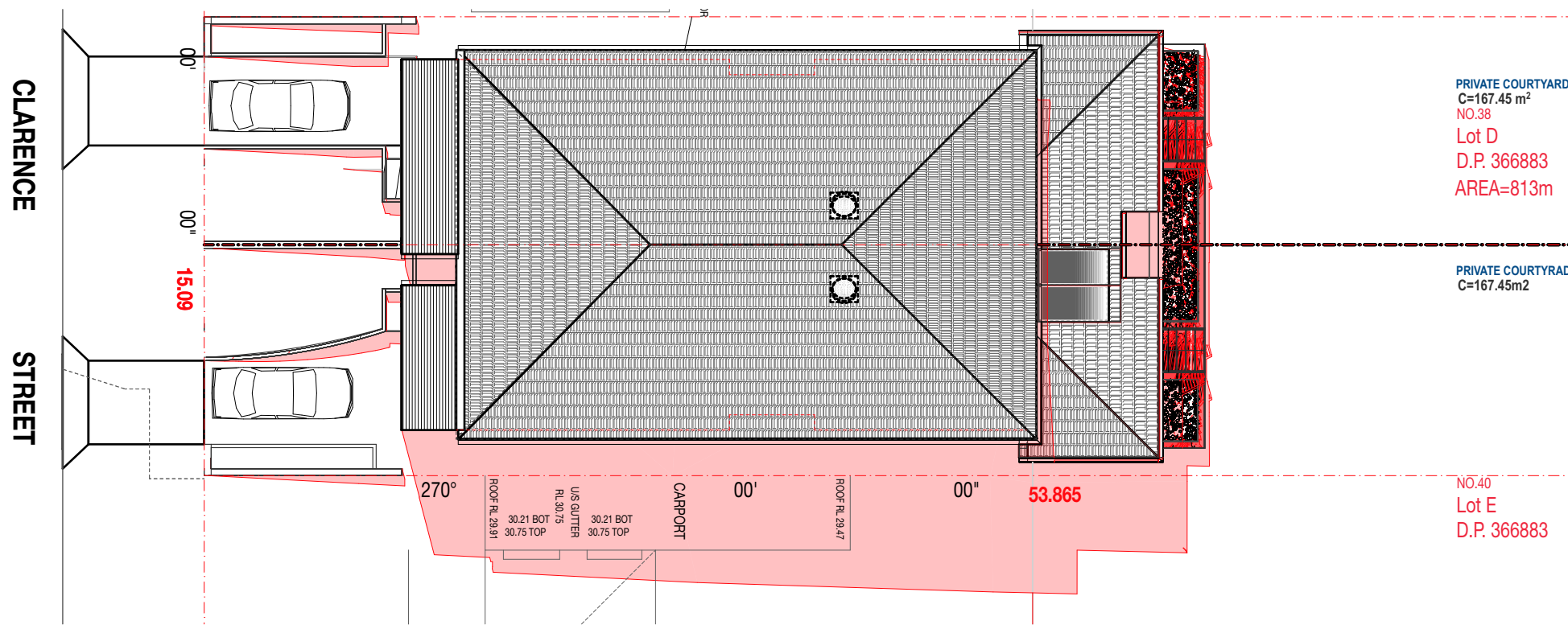
9.0am PROPOSED SHADOW IMPACTS @ 23rd OF SEPTEMBER 1:200



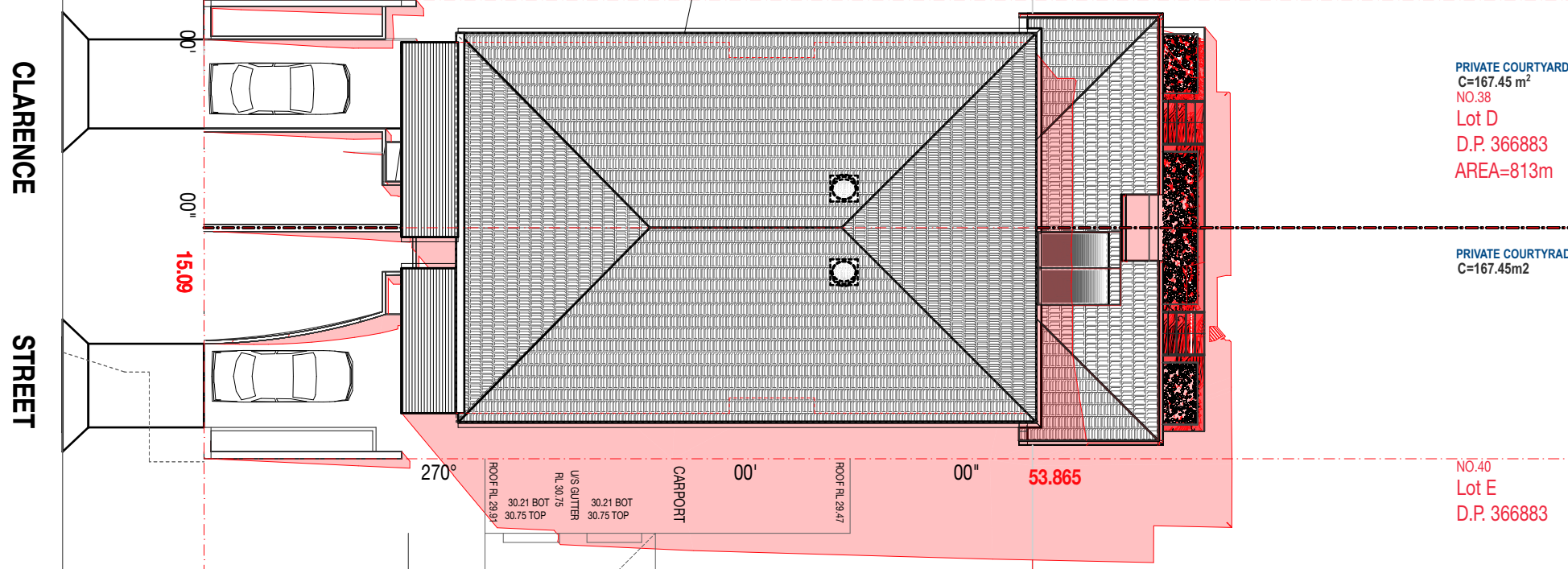
10.0am PROPOSED SHADOW IMPACTS @ 23rd OF SEPTEMBER 1:200



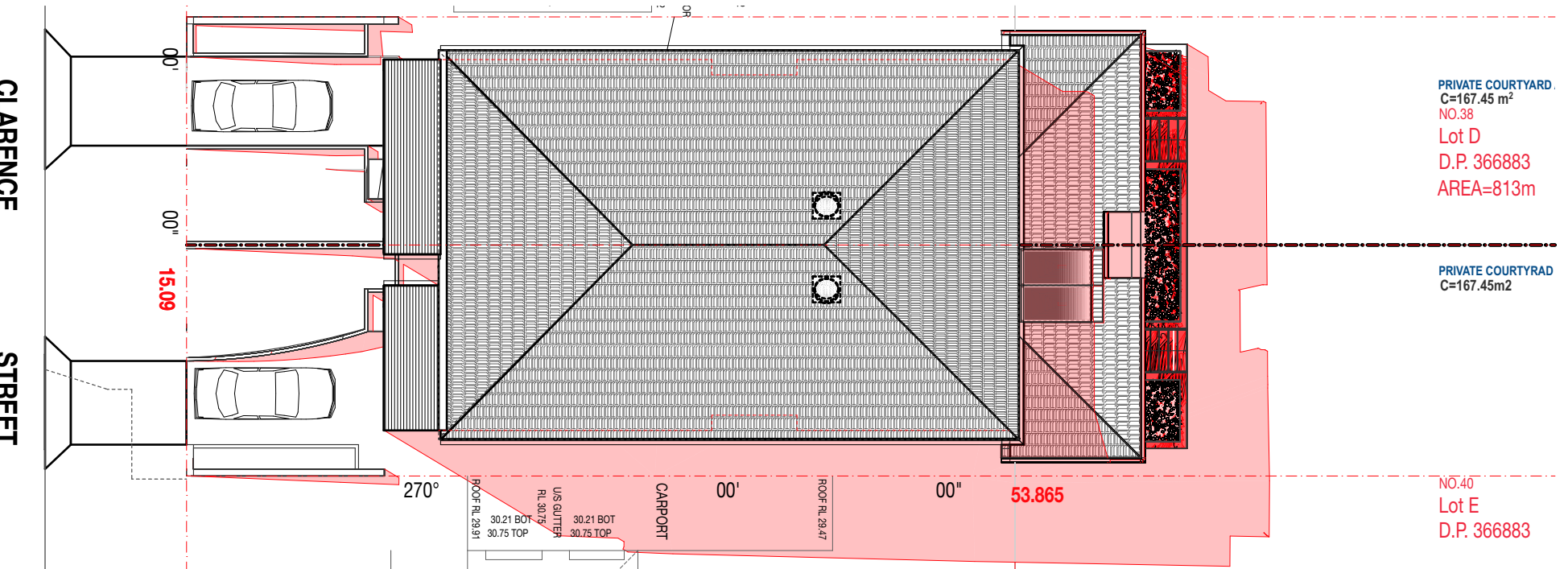
11.0am PROPOSED SHADOW IMPACTS @ 23rd OF SEPTEMBER 1:200



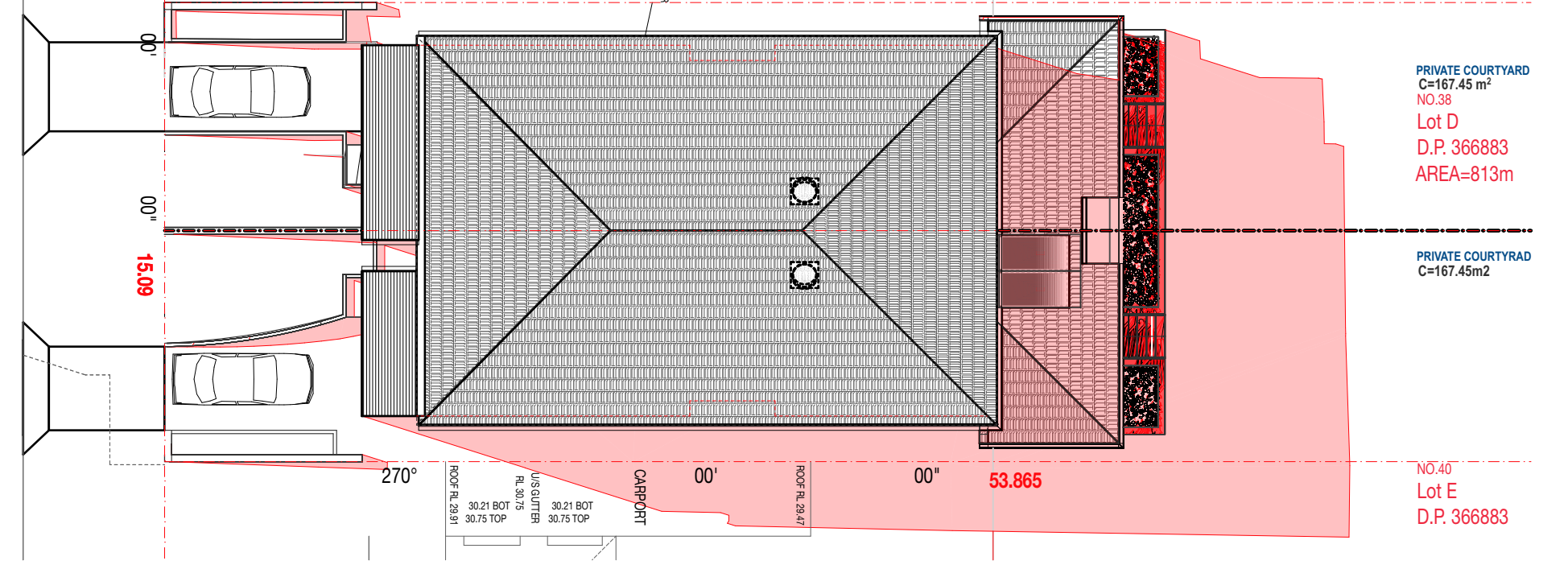
12.0pm PROPOSED SHADOW IMPACTS @ 23rd OF SEPTEMBER 1:200



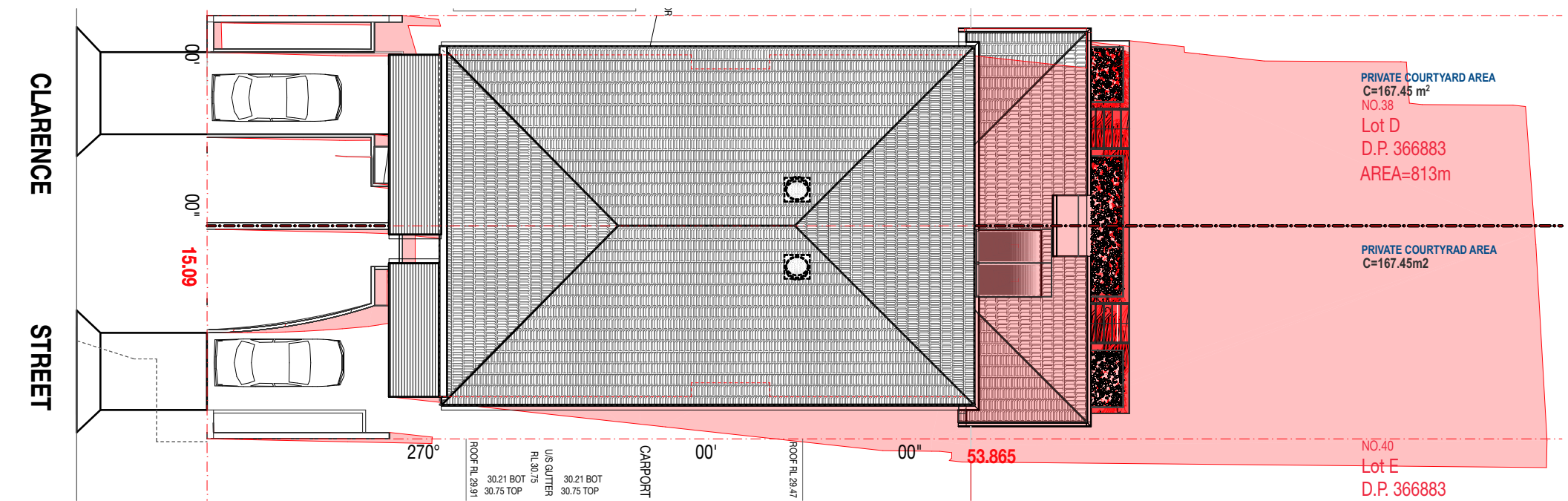
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PREPARED BY
ERGO DESIGNS P/L

SOLAR STATISTICS - 21 JUNE

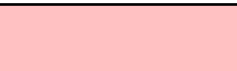
TIME	AZIMUTH	ALTITUDE
9AM	42.5° NE	17°
12 PM	0° N	32°
3 PM	42.5° NW	17°

SOLAR STATISTICS - 21 MARCH

TIME	AZIMUTH	ALTITUDE
9AM	60° NE	35°
12 PM	0° N	55°
3 PM	60° NW	35°

LEGEND

SHADOW OUTLINE OF PROPOSED WORKS AT NO. 38 CLARENCE STREET, CONDELL PARK NSW (SOLID LINE) - FOR THE SPECIFIC TIME INDICATED



NO. 40 CLARENCE STREET- (NOTE NO WINDOWS @ SITE FACING PROPOSED DEVELOPMENT APART FROM 2 HIGH WINDOWS + ATTACHED SIDE CARPORT) LOUNGE ROOM IS FACING THE FRONT WITH LARGE WINDOW FACING THE STREET- PICXK UP AFTERNOON SUNLIGHT.

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NOTES :
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CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES.
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rev	notes	date

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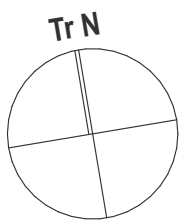
Mr M NGUYEN
38 CLARENCE STREET, CONDELL PARK NSW

client

NEW TWO STOREY ATTACHED
DUAL OCCUPANCY & S/DIVISION
project
38
CLARENCE STREET,
CONDELL PARK
address

Ergo Designs P/L
building designers and consultants
334A homer st earlwood nsw 2206 ph: 9558 1233
e-mail: ergo-des@bigpond.net.au

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A
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2/5/22