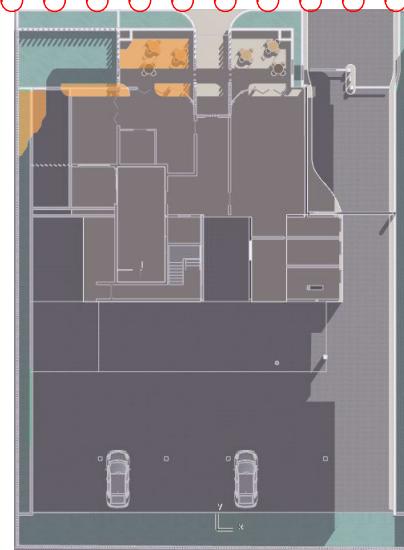


1 SOLAR STUDY 21 SEP 9AM



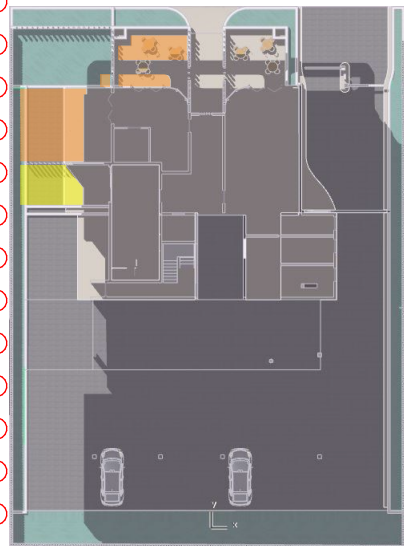
2 SOLAR STUDY 21 SEP 10AM



3 SOLAR STUDY 21 SEP 11AM



4 SOLAR STUDY 21 SEP MIDDAY



5 SOLAR STUDY 21 SEP 1 PM



6 SOLAR STUDY 21 SEP 2 PM



7 SOLAR STUDY 21 SEP 3 PM



8 SOLAR STUDY 21 SEP 4 PM



9 SOLAR STUDY 21 SEP 5 PM



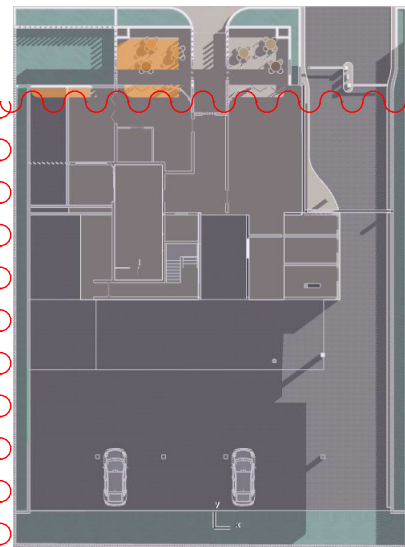
SOLAR ACCESS TO BOARDING HOUSE  
ROOM ACHIEVED



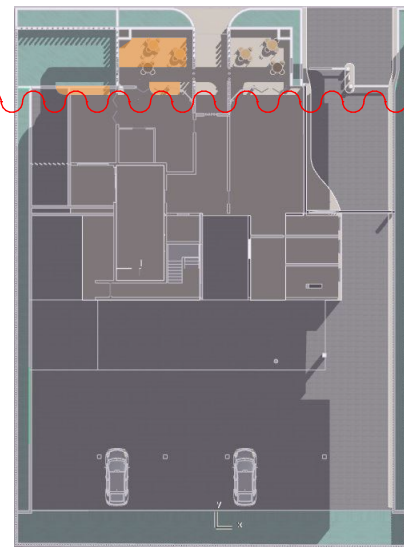
SOLAR ACCESS TO COMMUNAL AREA  
ACHIEVED

THESE DIAGRAMS VERIFY THAT MORE THAN 50 % OF  
THE OUTDOOR COMMUNAL AREA RECEIVE DIRECT SUN  
LIGHT AT THE EQUINOX BETWEEN 9 AM AND 5 PM

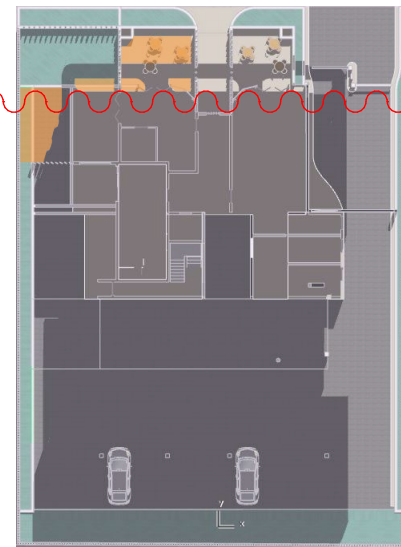




1 SOLAR STUDY 21 MARCH 9 AM



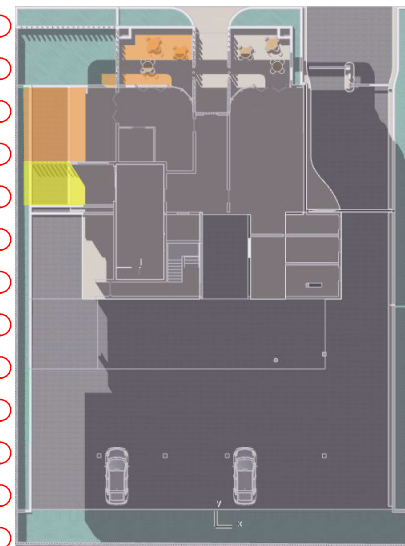
3 SOLAR STUDY 21 MARCH 10 AM



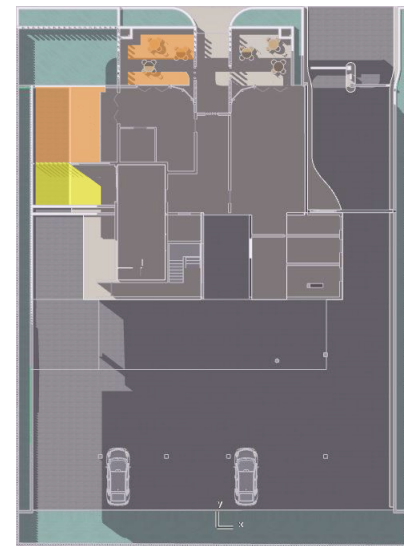
4 SOLAR STUDY 21 MARCH 11 AM



5 SOLAR STUDY 21 MARCH MIDDAY



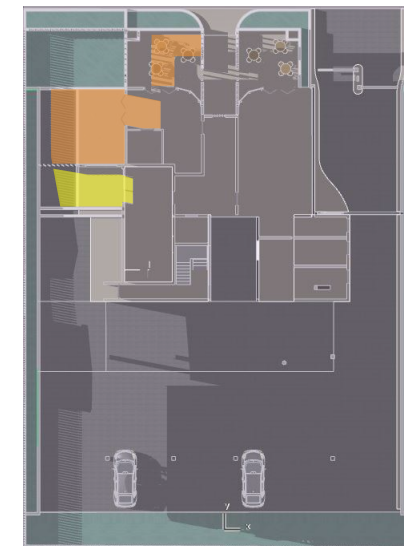
6 SOLAR STUDY 21 MARCH 1 PM



7 SOLAR STUDY 21 MARCH 2 PM



8 SOLAR STUDY 21 MARCH 3 PM



9 SOLAR STUDY 21 MARCH 4 PM



10 SOLAR STUDY 21 MARCH 5 PM



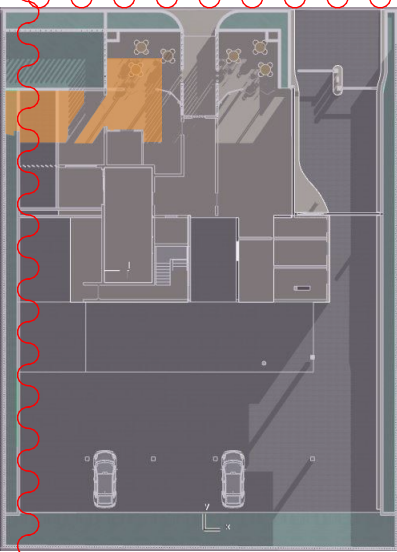
SOLAR ACCESS TO BOARDING HOUSE  
ROOM ACHIEVED



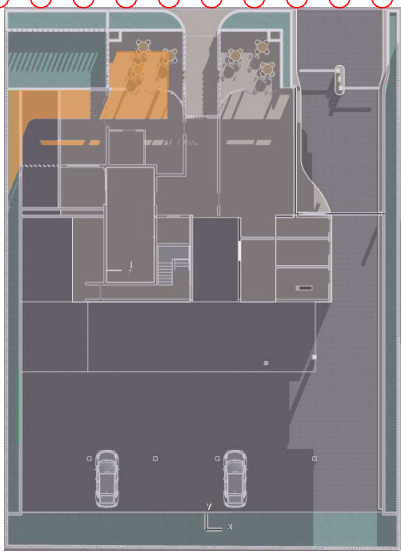
SOLAR ACCESS TO COMMUNAL AREA  
ACHIEVED

THESE DIAGRAMS VERIFY THAT MORE THAN 50 % OF  
THE OUTDOOR COMMUNAL AREA RECEIVE DIRECT SUN  
LIGHT AT THE EQUINOX BETWEEN 9 AM AND 5 PM





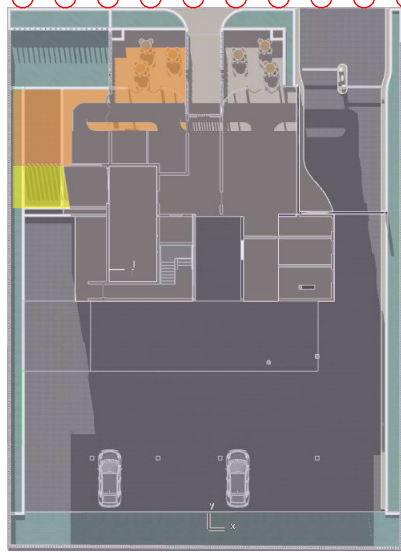
1 SOLAR STUDY 21 JUN 9AM  
1:500



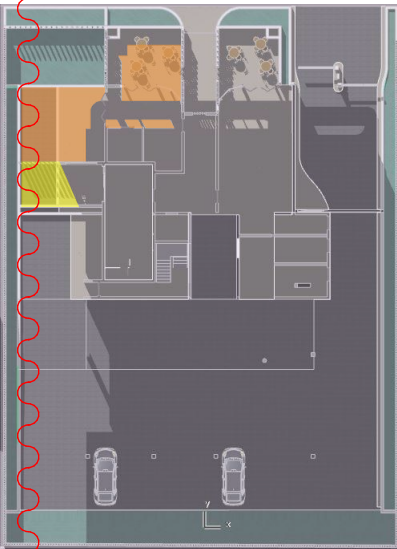
2 SOLAR STUDY 21 JUN 10AM  
1:500



3 SOLAR STUDY 21 JUN 11AM  
1:500



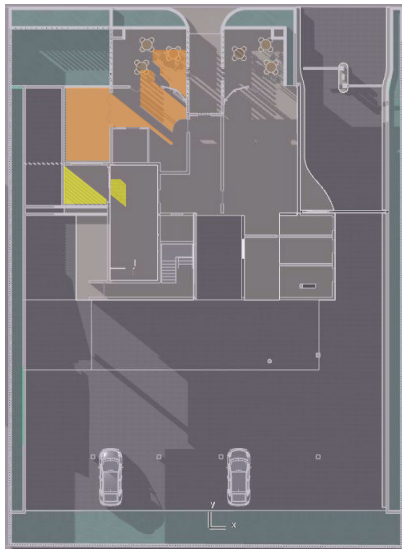
4 SOLAR STUDY 21 JUN MIDDAY  
1:500



5 SOLAR STUDY 21 JUN 1PM  
1:500



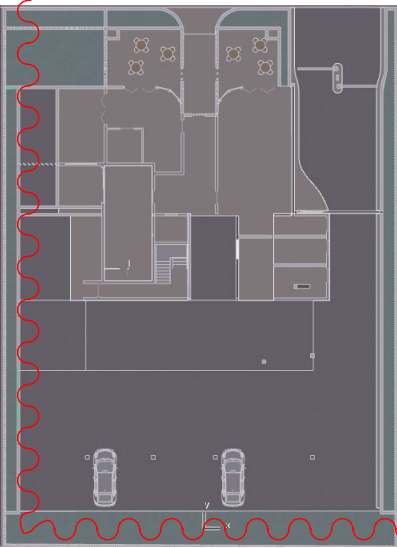
6 SOLAR STUDY 21 JUN 2PM  
1:500



7 SOLAR STUDY 21 JUN 3PM  
1:500



8 SOLAR STUDY 21 JUN 4PM  
1:500



9 SOLAR STUDY 21 JUN 5PM  
1:500

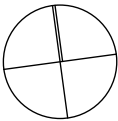


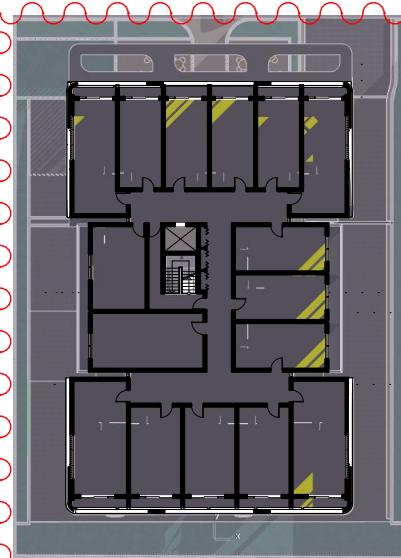
SOLAR ACCESS TO BOARDING HOUSE  
ROOM ACHIEVED



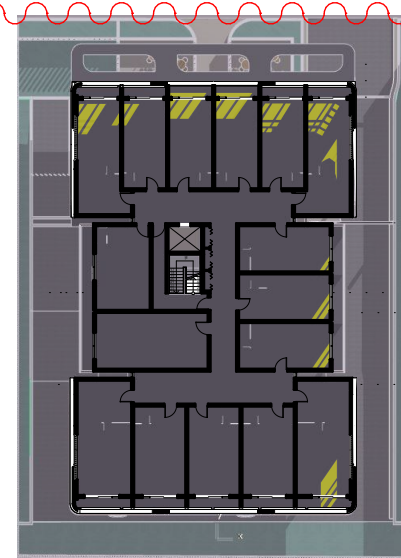
SOLAR ACCESS TO COMMUNAL AREA  
ACHIEVED

THESE DIAGRAMS VERIFY THAT MORE THAN 50 % OF  
THE OUTDOOR COMMUNAL AREA RECEIVE DIRECT SUN  
LIGHT AT THE EQUINOX BETWEEN 9 AM AND 5 PM

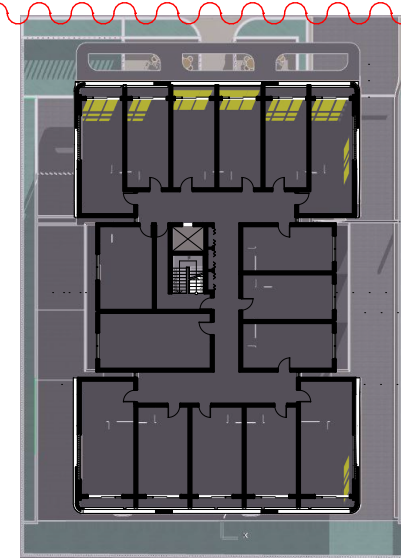




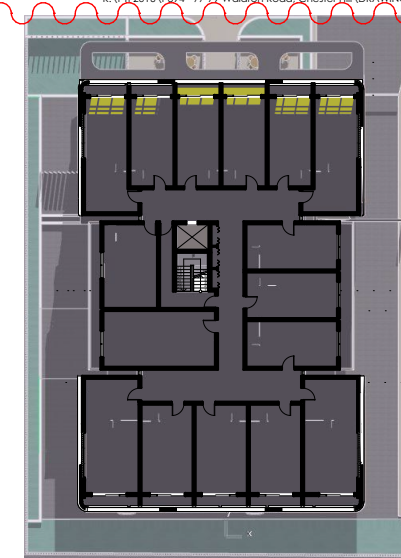
1 SOLAR STUDY 21 JUN 8 AM



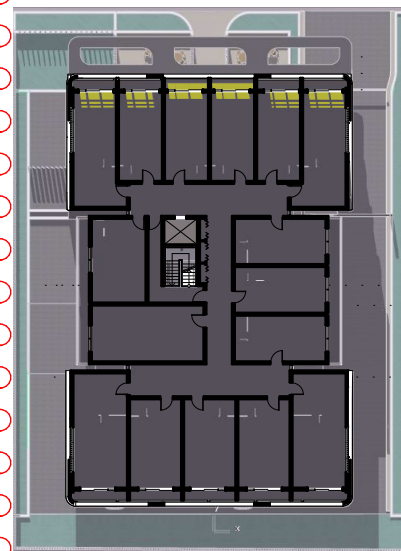
2 SOLAR STUDY 21 JUN 9 AM



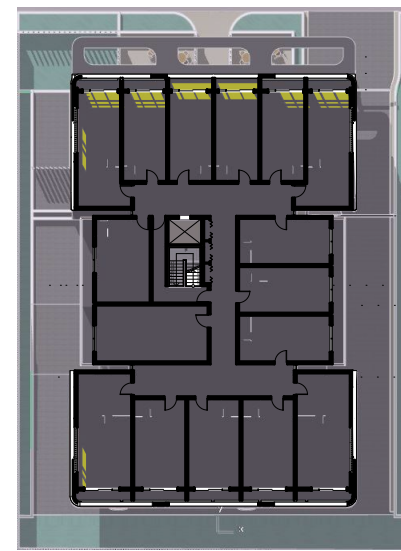
3 SOLAR STUDY 21 JUN 10 AM



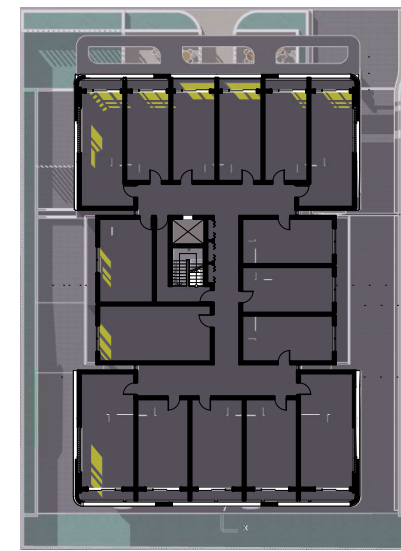
4 SOLAR STUDY 21 JUN 11 AM



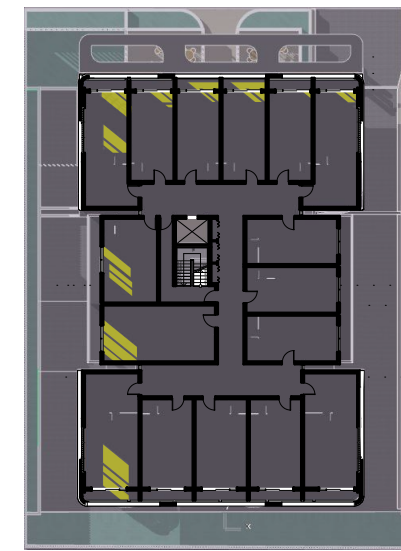
5 SOLAR STUDY 21 JUN MIDDAY



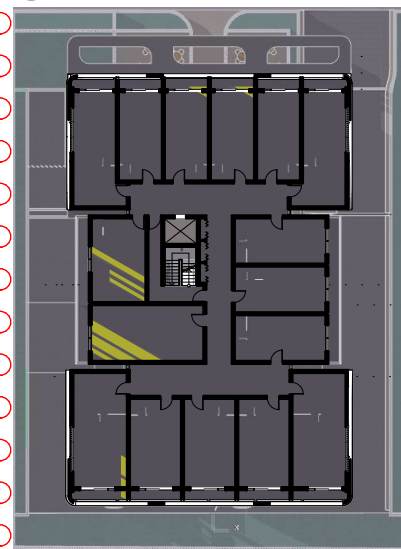
6 SOLAR STUDY 21 JUN 1 PM



7 SOLAR STUDY 21 JUN 2 PM



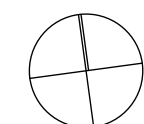
8 SOLAR STUDY 21 JUN 3 PM



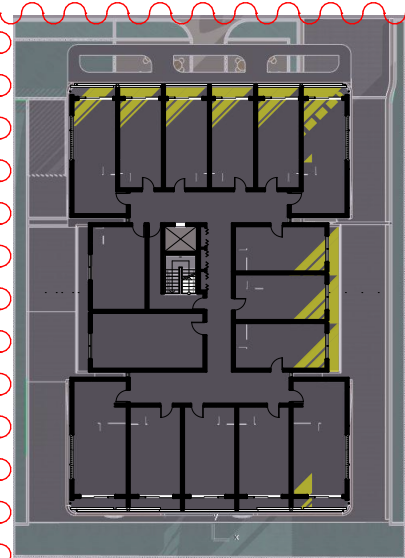
9 SOLAR STUDY 21 JUN 4 PM



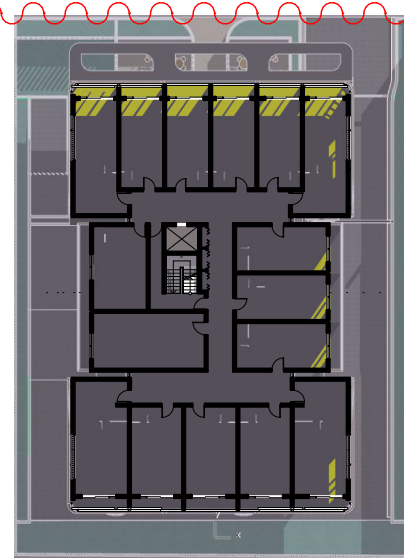
SOLAR ACCESS TO BOARDING HOUSE  
ROOM ACHIEVED



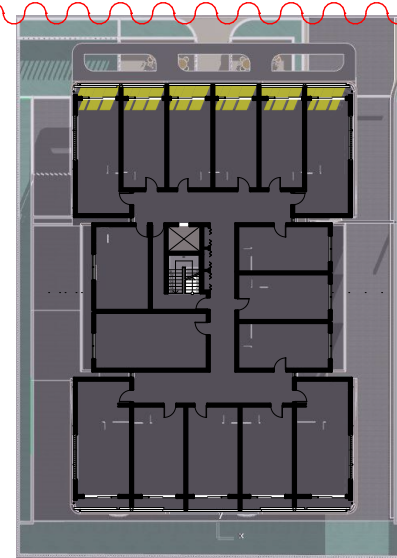




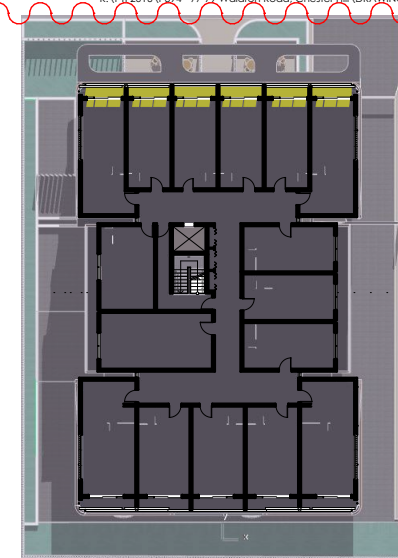
1 SOLAR STUDY 21 JUN 8 AM



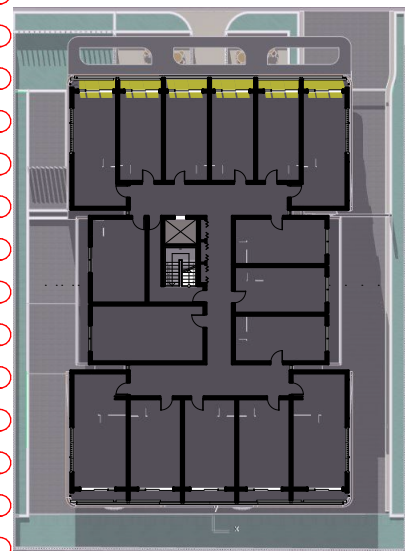
2 SOLAR STUDY 21 JUN 9 AM



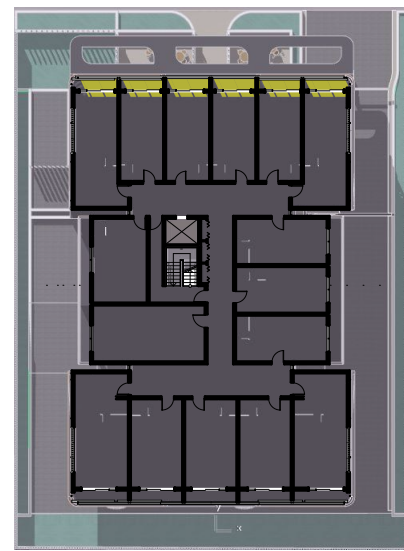
3 SOLAR STUDY 21 JUN 10 AM



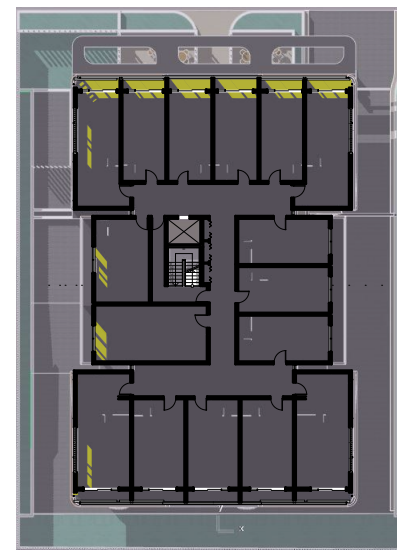
4 SOLAR STUDY 21 JUN 11 AM



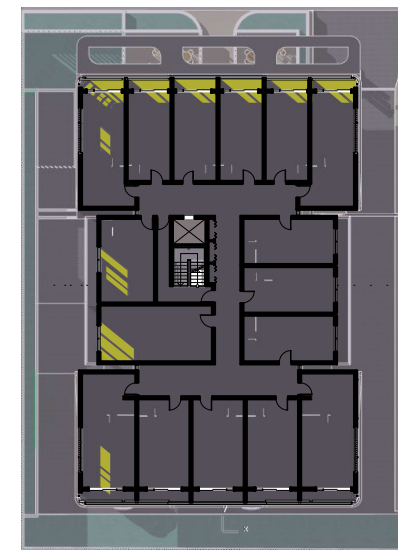
5 SOLAR STUDY 21 JUN MIDDAY



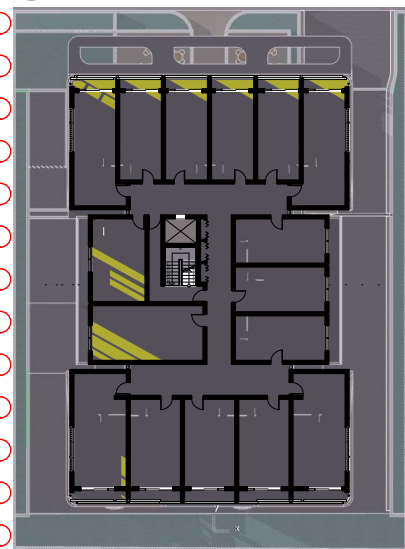
6 SOLAR STUDY 21 JUN 1 PM



7 SOLAR STUDY 21 JUN 2 PM



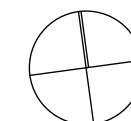
8 SOLAR STUDY 21 JUN 3 PM

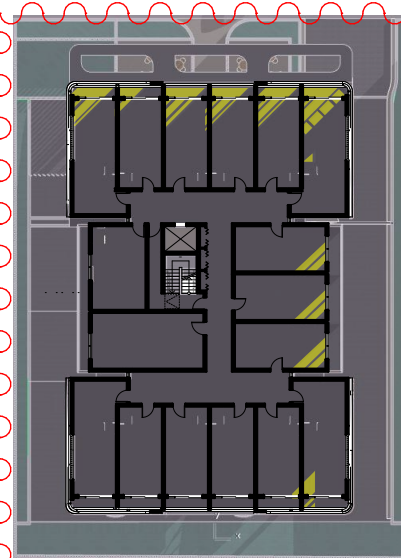


9 SOLAR STUDY 21 JUN 4 PM

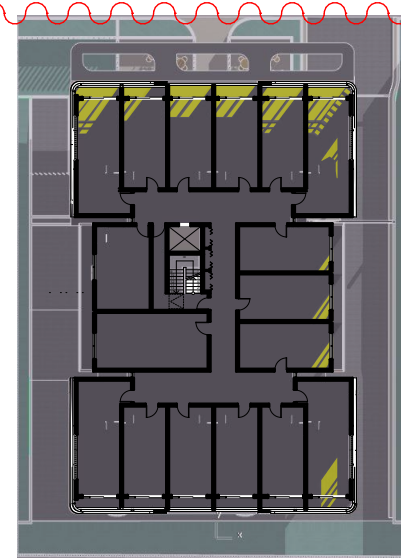


SOLAR ACCESS TO BOARDING HOUSE  
ROOM ACHIEVED

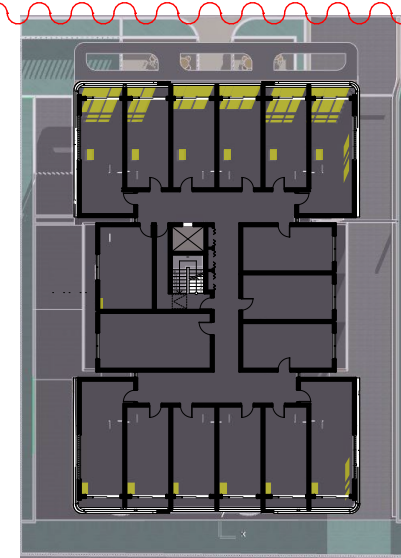




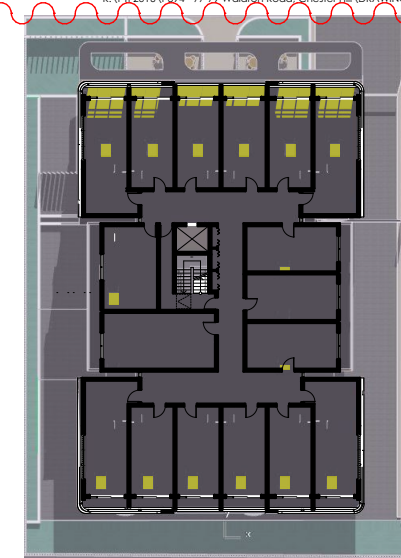
1 SOLAR STUDY 21 JUN 8 AM



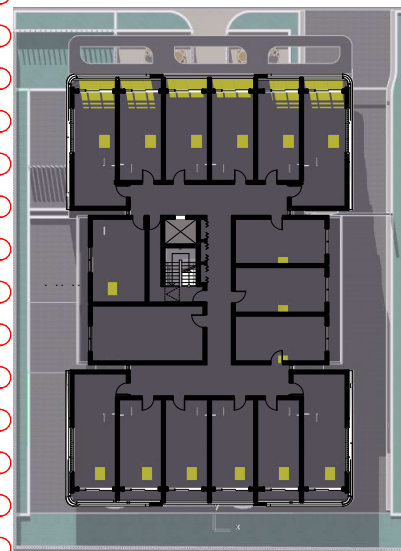
2 SOLAR STUDY 21 JUN 9 AM



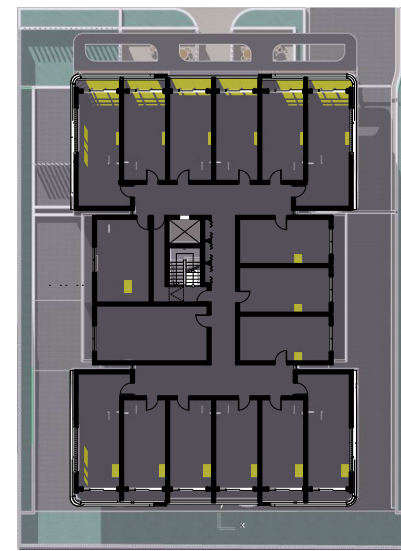
3 SOLAR STUDY 21 JUN 10 AM



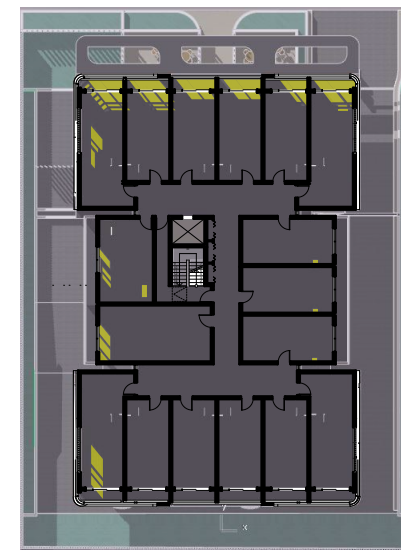
4 SOLAR STUDY 21 JUN 11 AM



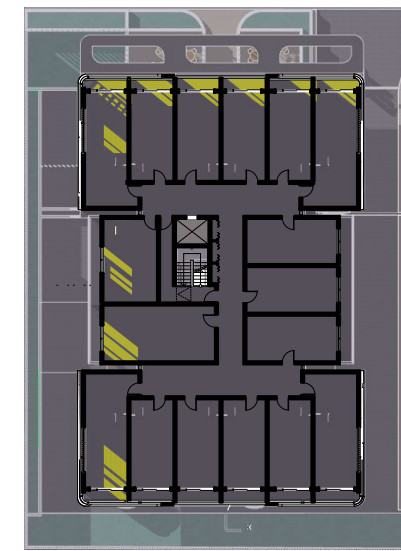
5 SOLAR STUDY 21 JUN MIDDAY



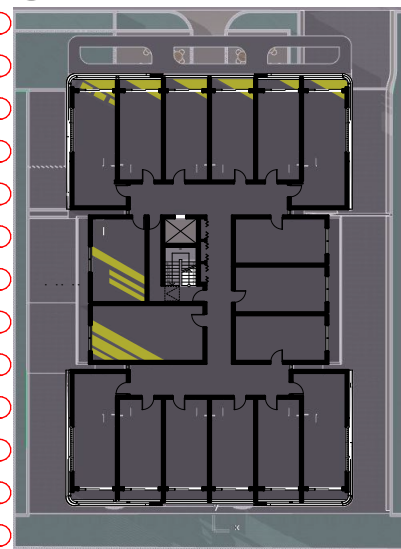
6 SOLAR STUDY 21 JUN 1 PM



7 SOLAR STUDY 21 JUN 2 PM



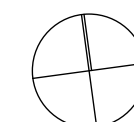
8 SOLAR STUDY 21 JUN 3 PM



9 SOLAR STUDY 21 JUN 4 PM



SOLAR ACCESS TO BOARDING HOUSE  
ROOM ACHIEVED





PROJECT NO.: P394  
ADDRESS: 77-79 Waldron Rd, Chester Hill  
REVISION/ DATE: 26/04/18

**BANKSTOWN DCP 2015 MIN. SOLAR ACCESS REQUIREMENTS**  
**Clause 10.23 part 81-** A minimum 50% of the private open space required for boarding houses 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.  
**Clause 10.20 part 81-** At least 70% of boarding rooms 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.

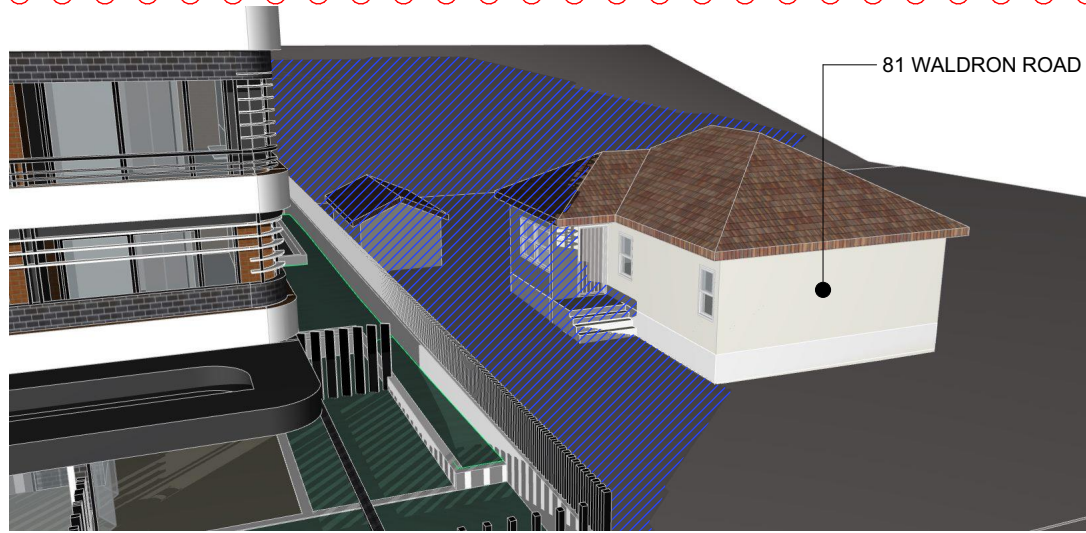
UNIT SCHEDULE

UNIT NO.	LIVING SPACE	WET AREA	OPEN SPACE	TOTAL UNIT AREA	SOLAR ACCESS JUN 21											COMPLIES WITH CONTROL
	m²	m²	m²	m²		8:00 AM	9:00 AM	10:00 AM	11:00 AM	MIDDAY	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	
G_1	24	9	11	33		0	0	0	0	0	0	0	1	1		N/A
COMMUNAL ROOM			70	35		N/A	1	1	1	1	1	1	1	1	0	YES
1_1	21	10		31		1	1	1	1	1	1	1	1			N/A
1_2	16	7		23		1	1	1	1	1	1	1	1			N/A
1_3	16	7		23		1	1	1	1	1	1	1	1			N/A
1_4	16	7		23		1	1	1	1	1	1	1	1			N/A
1_5	16	7		23		1	1	1	1	1	1	1	1			N/A
1_6	21	10		31		1	1	1	1	1	1	1	1			N/A
1_7	17	11		28							1	1	1	1		N/A
1_8	23	15		38							1	1	1	1		N/A
1_9	16	9		25		1	1									N/A
1_10	17	8		25		1	1									N/A
1_11	16	9		25			1	1								N/A
1_12	24	13		37						1	1	1	1	1		N/A
1_13	18	9		27												N/A
1_14	18	9		27												N/A
1_15	18	9		27												N/A
1_16	24	13		37		1	1	1	1							N/A
2_1	21	10		31		1	1	1	1	1	1	1	1	1		N/A
2_2	16	7		23		1	1	1	1	1	1	1	1	1		N/A
2_3	16	7		23		1	1	1	1	1	1	1	1	1		N/A
2_4	16	7		23		1	1	1	1	1	1	1	1	1		N/A
2_5	16	7		23		1	1	1	1	1	1	1	1	1		N/A
2_6	21	10		31		1	1	1	1	1	1	1	1	1		N/A
2_7	17	11		28							1	1	1	1		N/A
2_8	23	15		38							1	1	1	1		N/A
2_9	16	9		25												N/A
2_10	17	8		25		1	1									N/A
2_11	16	9		25		1	1									N/A
2_12	24	13		37							1	1	1	1		N/A
2_13	18	9		27												N/A
2_14	18	9		27												N/A
2_15	18	9		27												N/A
2_16	24	13		37		1	1									N/A
3_1	21	10		31		1	1	1	1	1	1	1	1	1		N/A
3_2	16	7		23		1	1	1	1	1	1	1	1	1		N/A
3_3	16	7		23		1	1	1	1	1	1	1	1	1		N/A
3_4	16	7		23		1	1	1	1	1	1	1	1	1		N/A
3_5	16	7		23		1	1	1	1	1	1	1	1	1		N/A
3_6	21	10		31		1	1	1	1	1	1	1	1	1		N/A
3_7	17	11		28				1	1	1	1	1	1	1		N/A
3_8	23	15		38							1	1	1	1		N/A
3_9	16	9		25		1	1			1	1					N/A
3_10	17	8		25		1	1			1	1					N/A
3_11	16	9		25		1	1			1	1					N/A
3_12	21	10		31				1	1	1	1	1	1	1		N/A
3_13	16	7		23				1	1	1	1					N/A
3_14	16	7		23				1	1	1	1					N/A
3_15	16	7		23				1	1	1	1					N/A
3_16	16	7		23				1	1	1	1					N/A
3_17	21	10		31		1	1	1	1	1	1					N/A
TOTAL																36

SOLAR ACCESS SEPTEMBER 21	COMPLIES WITH CONTROL
0	
N/A	YES

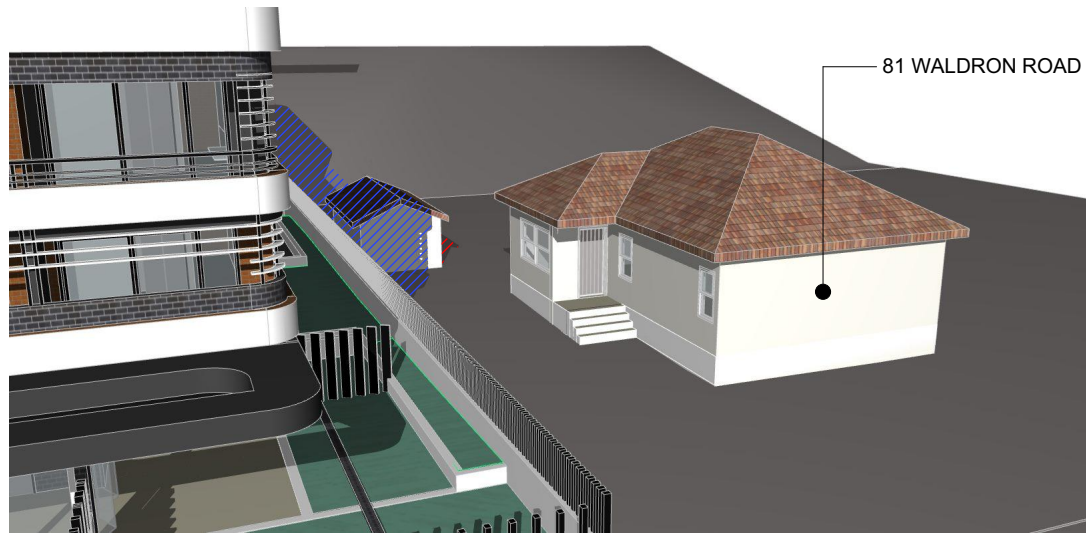
SOLAR ACCESS MARCH 21	COMPLIES WITH CONTROL
0	
N/A	YES

C



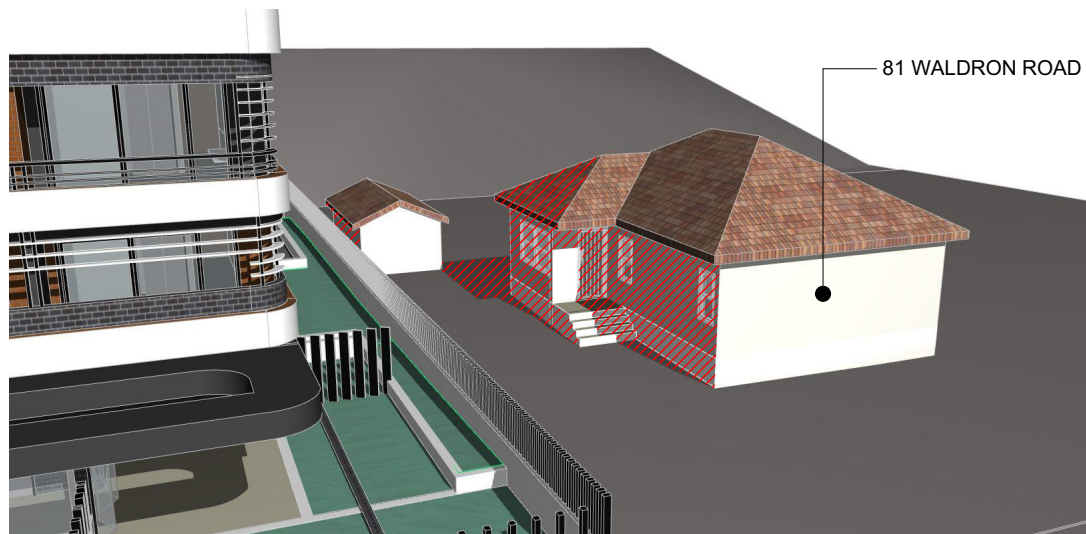
1

SOLAR ACCESS 81 WALDRON RD. 21 JUN 8AM



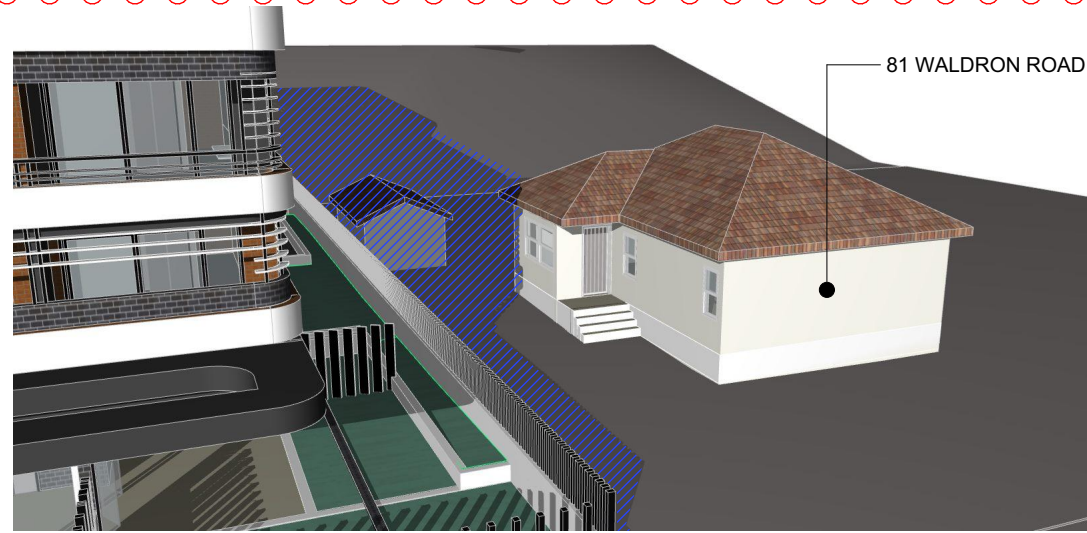
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SOLAR ACCESS 81 WALDRON RD. 21 JUN 10AM



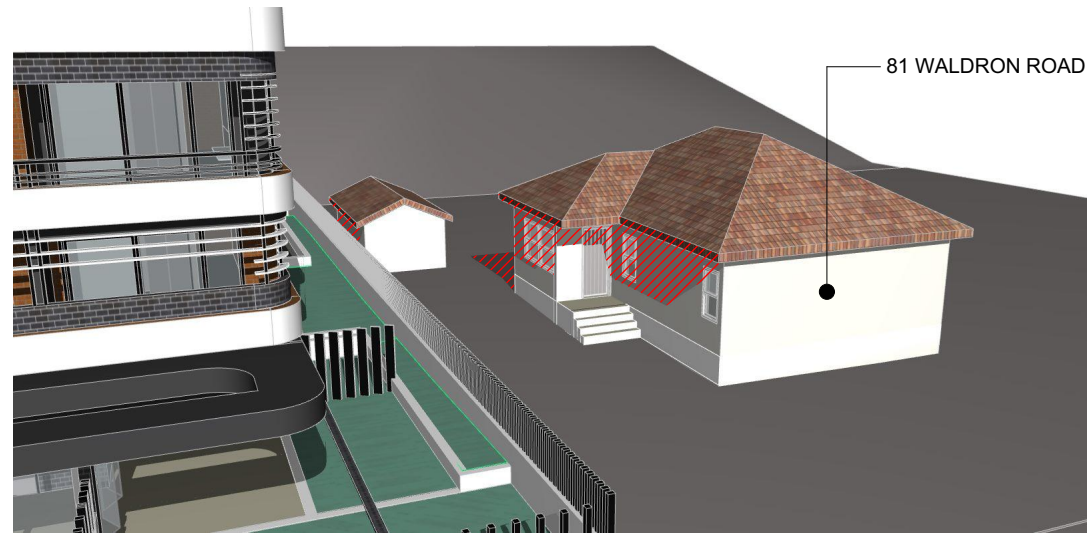
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SOLAR ACCESS 81 WALDRON RD. 21 JUN MIDDAY



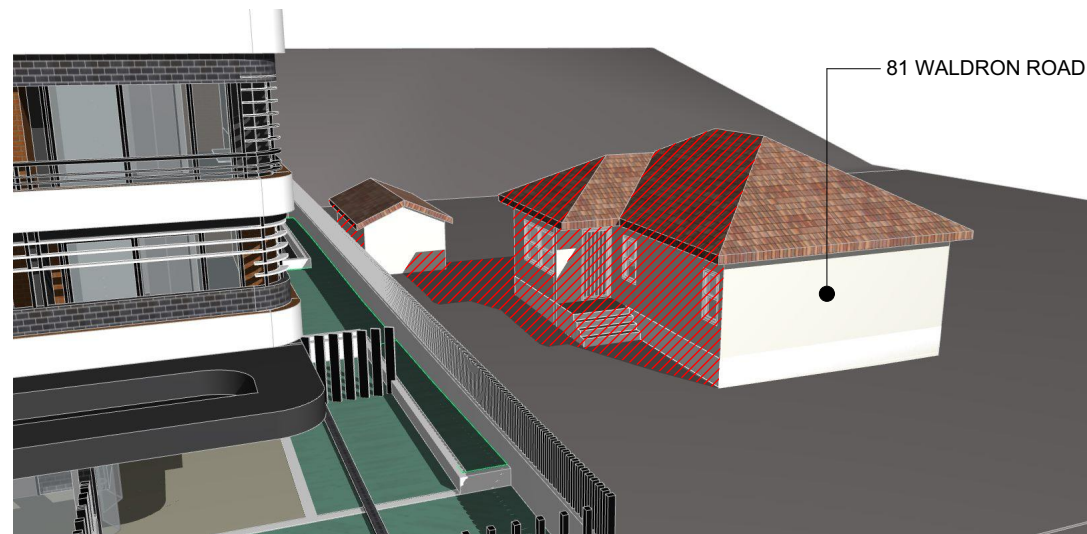
2

SOLAR ACCESS 81 WALDRON RD. 21 JUN 9AM



4

SOLAR ACCESS 81 WALDRON RD. 21 JUN 11AM



6

SOLAR ACCESS 81 WALDRON RD. 21 JUN 1PM

## BANKSTOWN DCP 2015

**CLAUSE 10.22 PART B1-** 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.

## SUMMARY

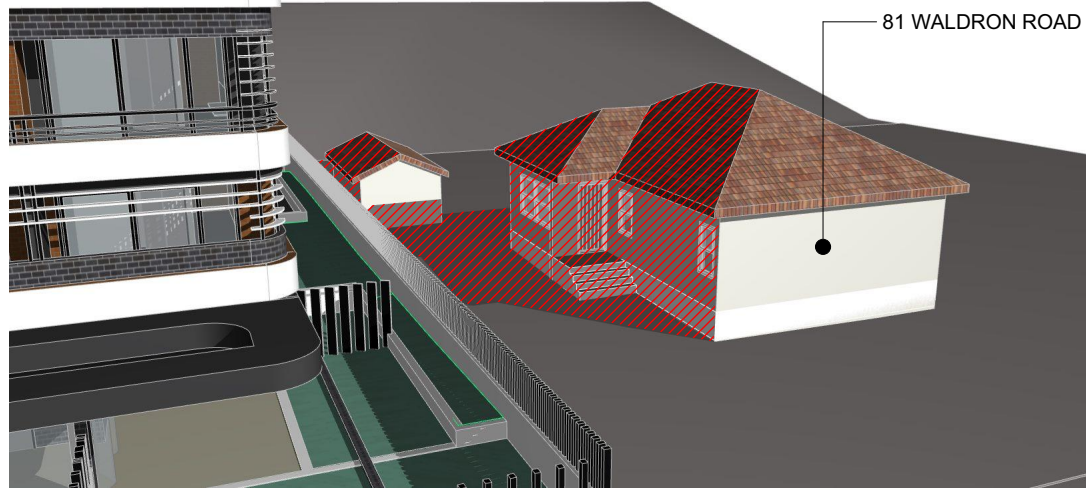
THESE DIAGRAMS CONFIRM THAT THE PROPOSED DEVELOPMENT DOES NOT CAST ANY SHADOW OVER THE LIVING AREAS OF THE DWELLING ON 81 WALDRON ROAD IN MID WINTER SOLSTICE BETWEEN 9 AM AND 4 PM THEREFORE **THE PROPOSED DEVELOPMENT COPLIES WITH BANKSTOWN DCP 2015 CLAUSE 10.22 PART B1**

SHADOW CAST BY PROPOSED BUILDING ENVELOPE

SHADOW CAST BY EXISTING BUILDING ENVELOPE OF 81 WALDRON RD.

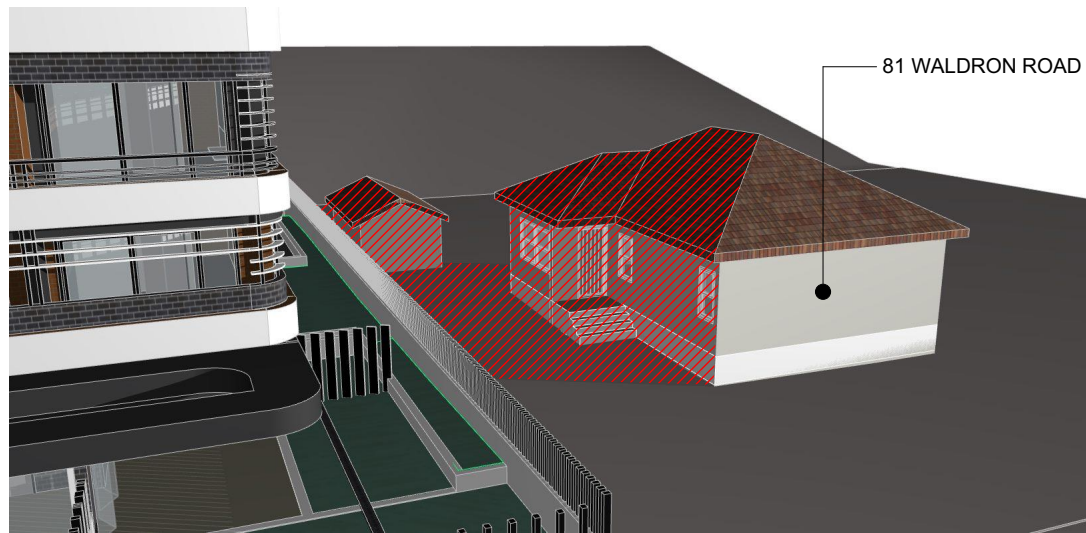
B





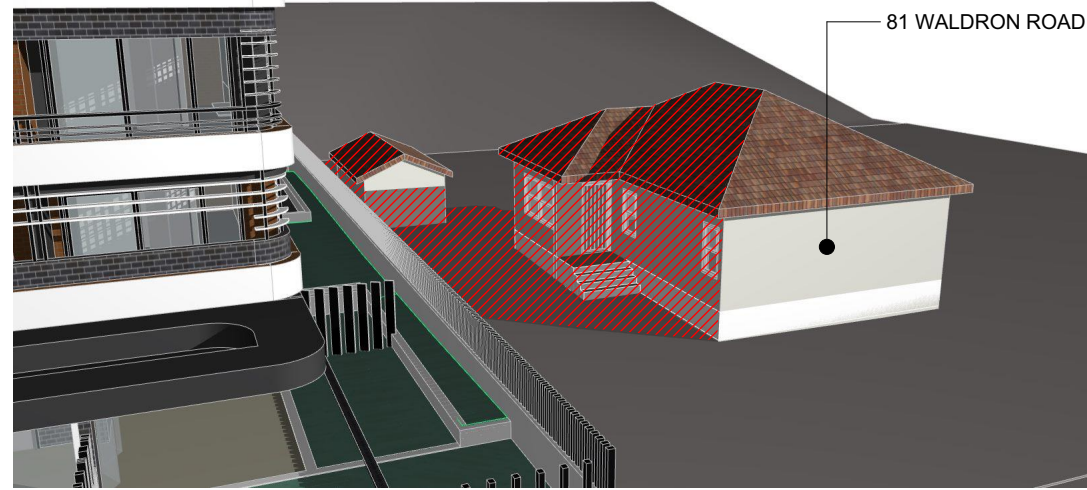
1

SOLAR ACCESS 81 WALDRON RD. 21 JUN 2PM



3

SOLAR ACCESS 81 WALDRON RD. 21 JUN 4PM



2

SOLAR ACCESS 81 WALDRON RD. 21 JUN 3PM

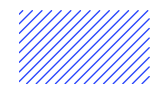
## BANKSTOWN DCP 2015

**CLAUSE 10.22 PART B1-** 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.

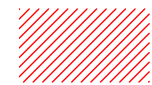
## SUMMARY

THESE DIAGRAMS CONFIRM THAT THE PROPOSED DEVELOPMENT DOES NOT CAST ANY SHADOW OVER THE LIVING AREAS OF THE DWELLING ON 81 WALDRON ROAD IN MID WINTER SOLSTICE BETWEEN 9 AM AND 4 PM THEREFORE **THE PROPOSED DEVELOPMENT COPLIES WITH BANKSTOWN DCP 2015 CLAUSE 10.22 PART B1**

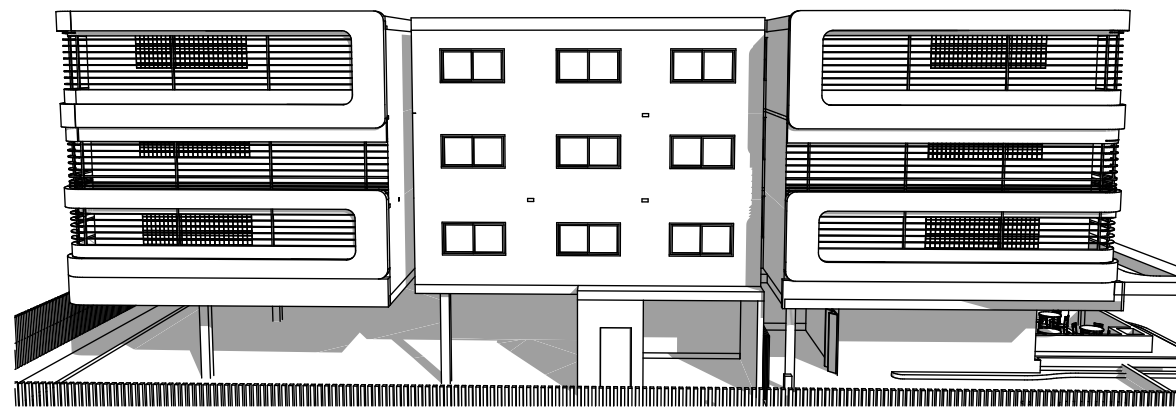
B



SHADOW CAST BY PROPOSED BUILDING ENVELOPE

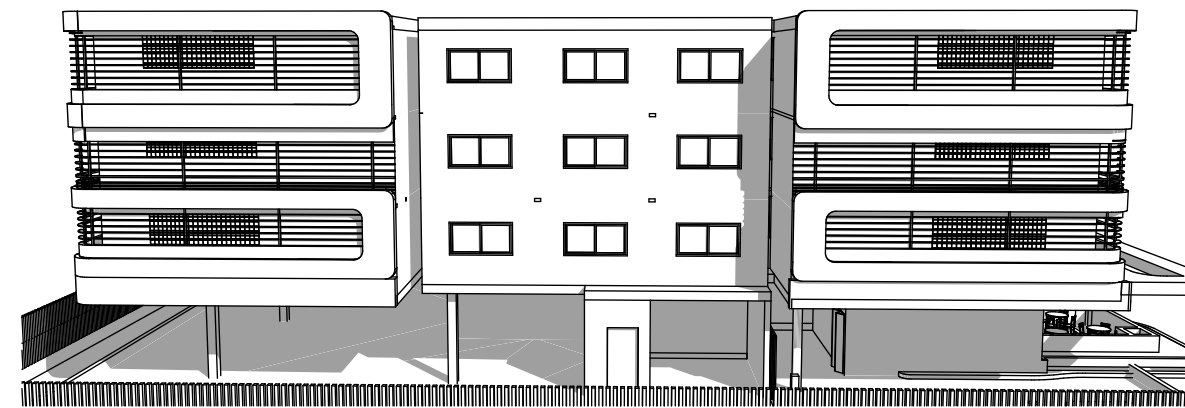


SHADOW CAST BY EXISTING BUILDING ENVELOPE OF 81 WALDRON RD.



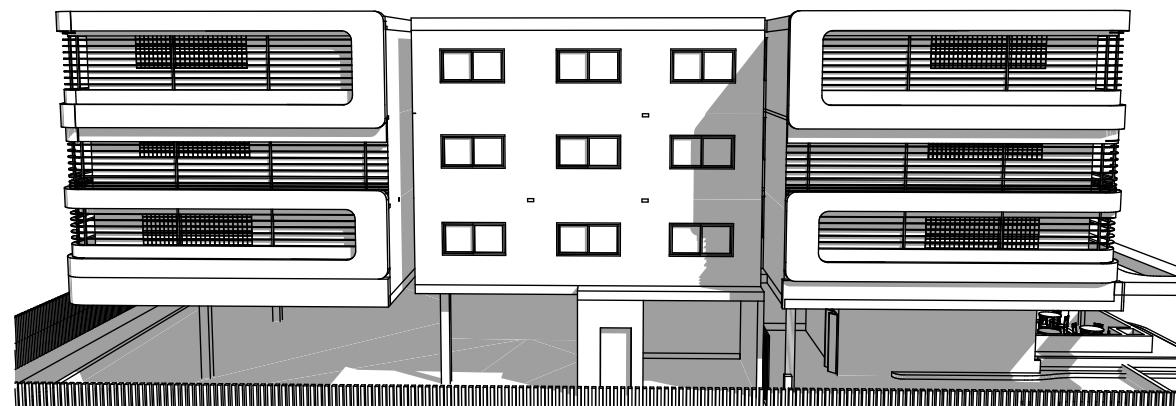
1

East facade 21 Sep.-8 AM



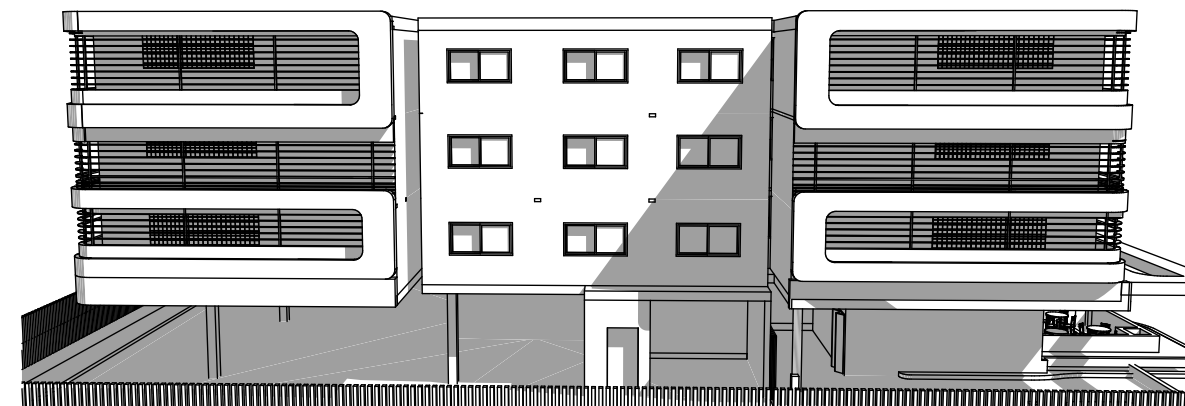
2

East facade 21 Sep.-9 AM



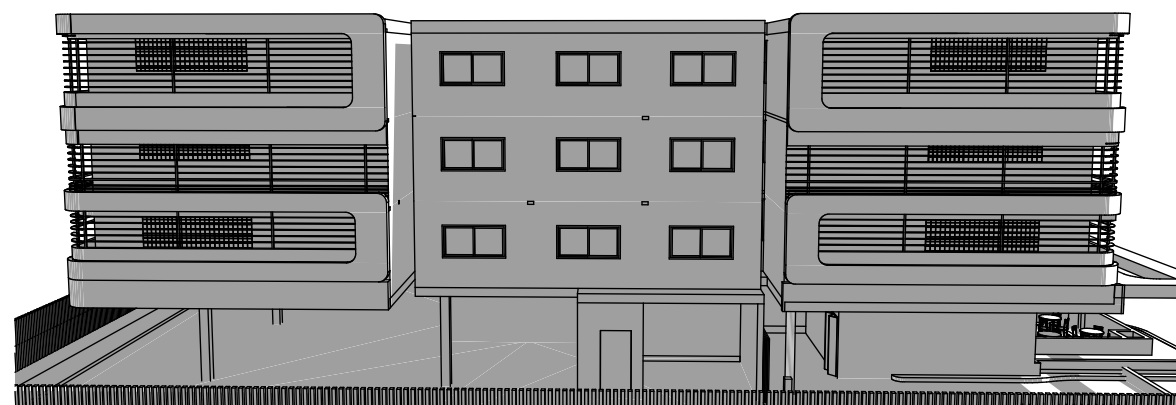
3

East facade 21 Sep.-10 AM



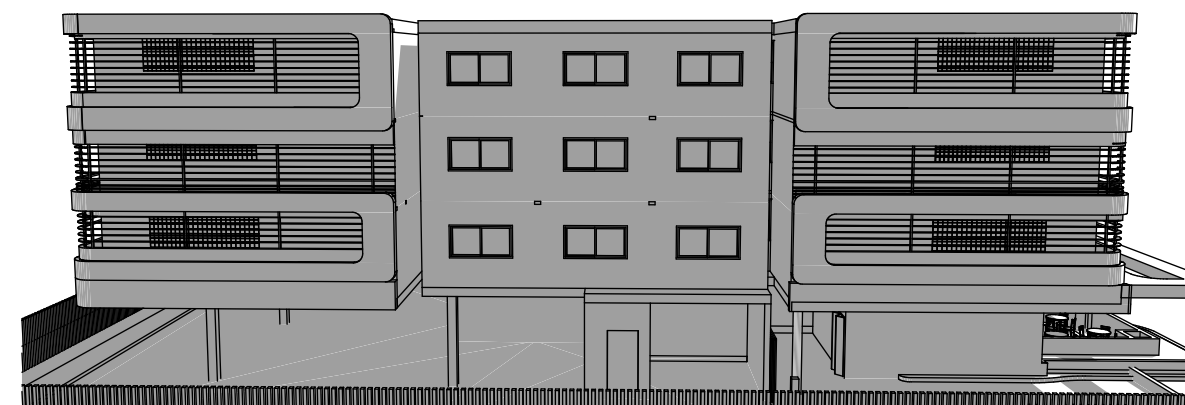
4

East facade 21 Sep.-11 AM



5

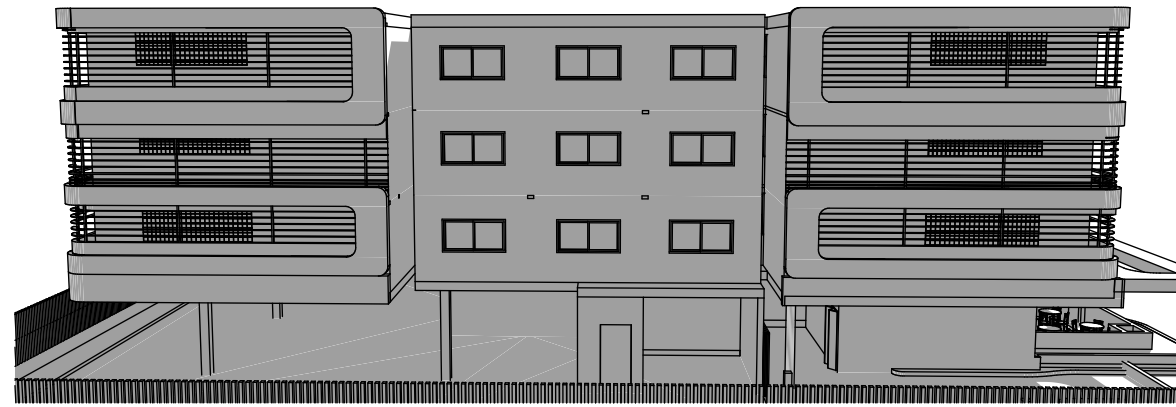
East facade 21 Sep.-Midday



6

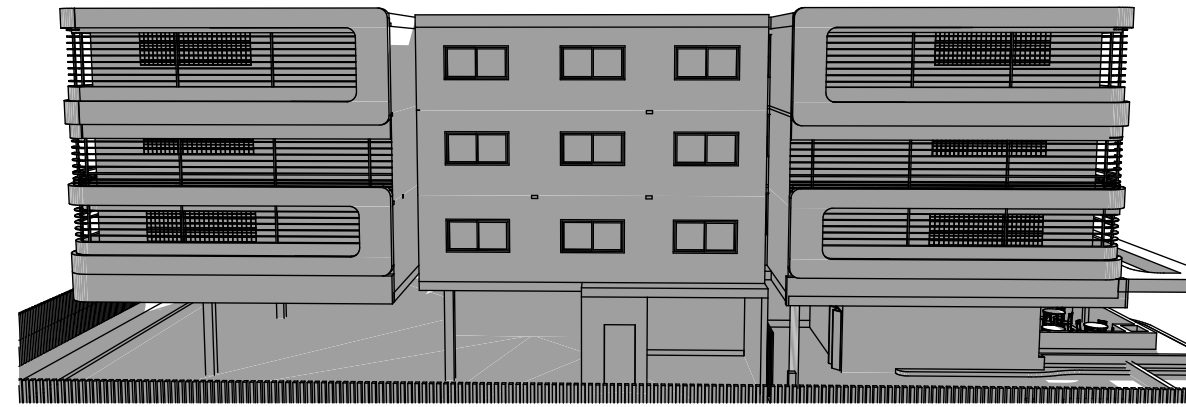
East facade 21 Sep.-1PM





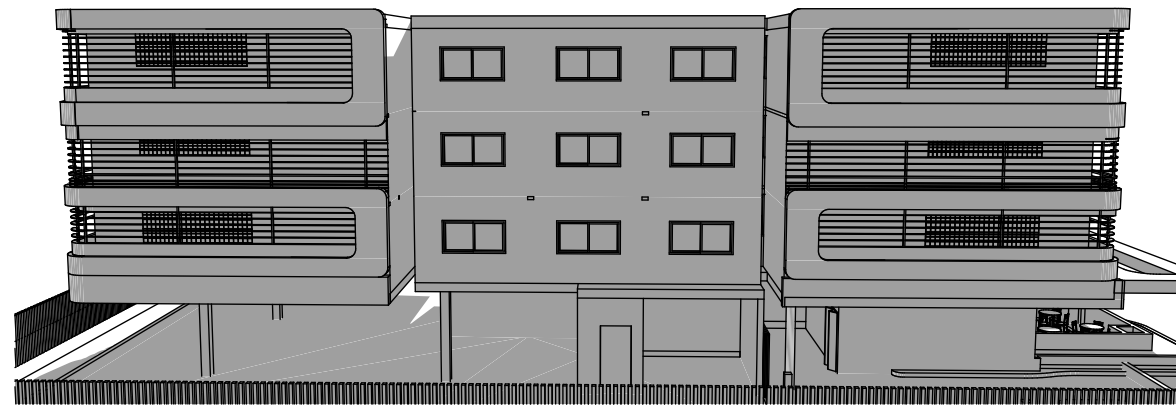
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East facade 21 Sep.-2 PM



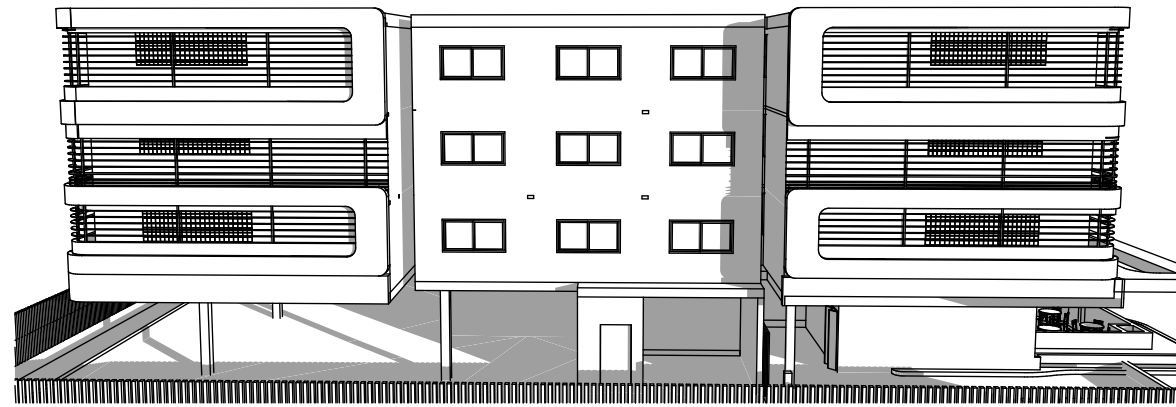
2

East facade 21 Sep.-3 PM



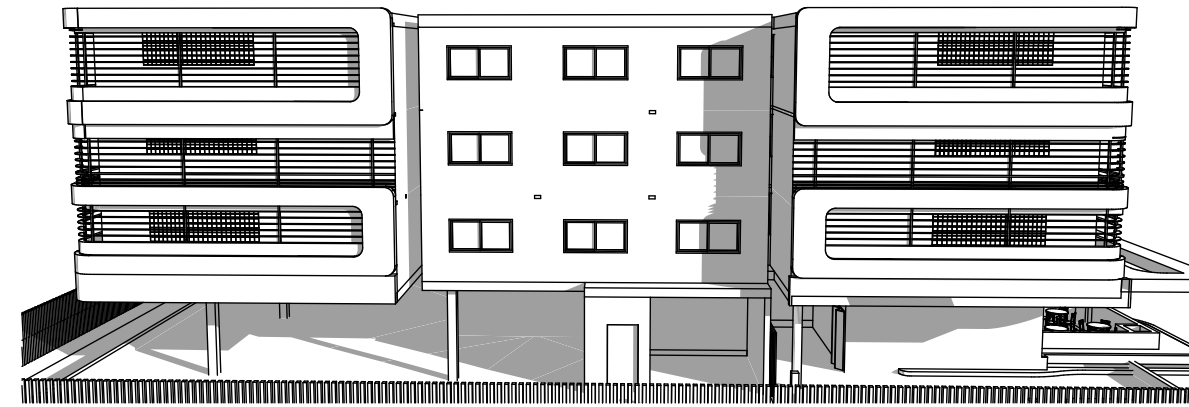
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East facade 21 Sep.-4 PM



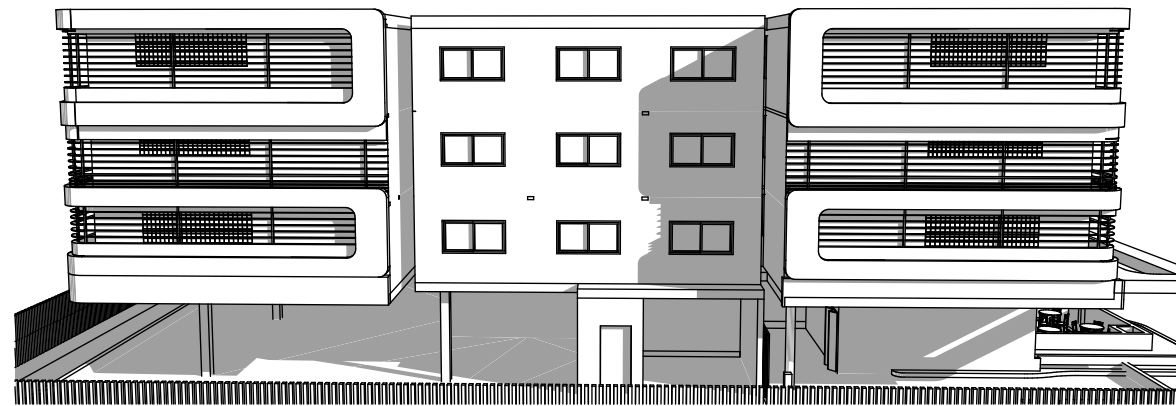
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East facade 21 Jun-8 AM



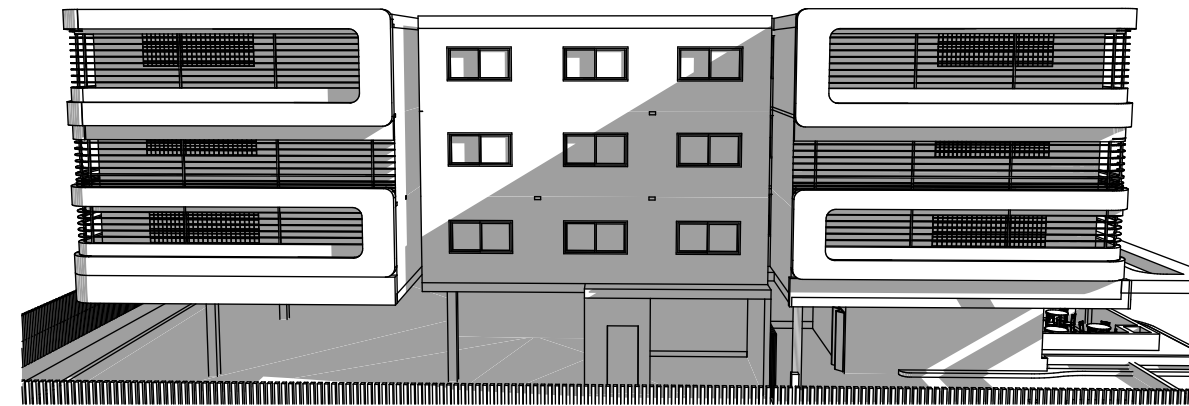
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East facade 21 Jun-9 AM



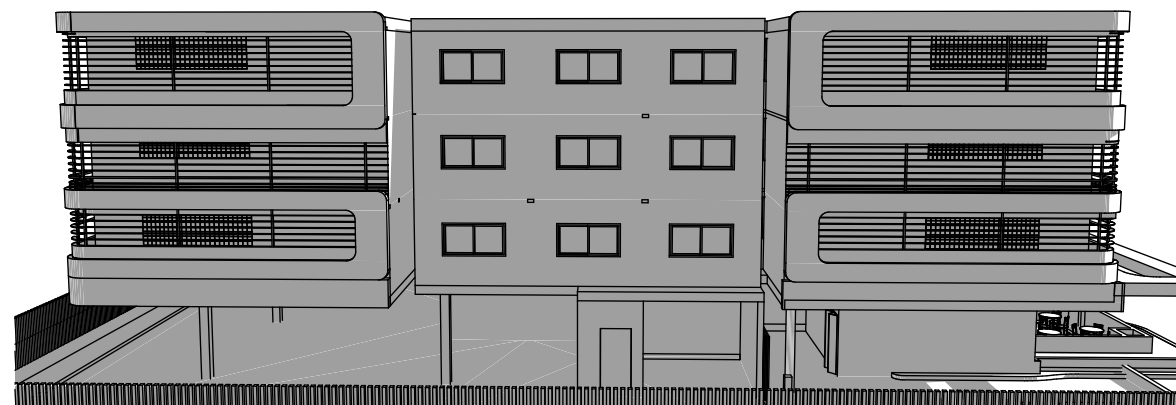
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East facade 21 Jun-10 AM



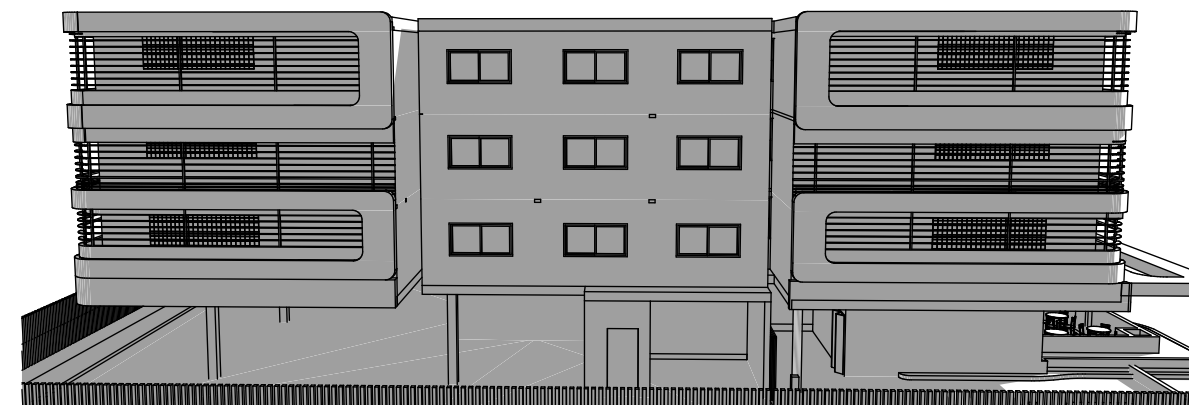
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East facade 21 Jun-11 AM



5

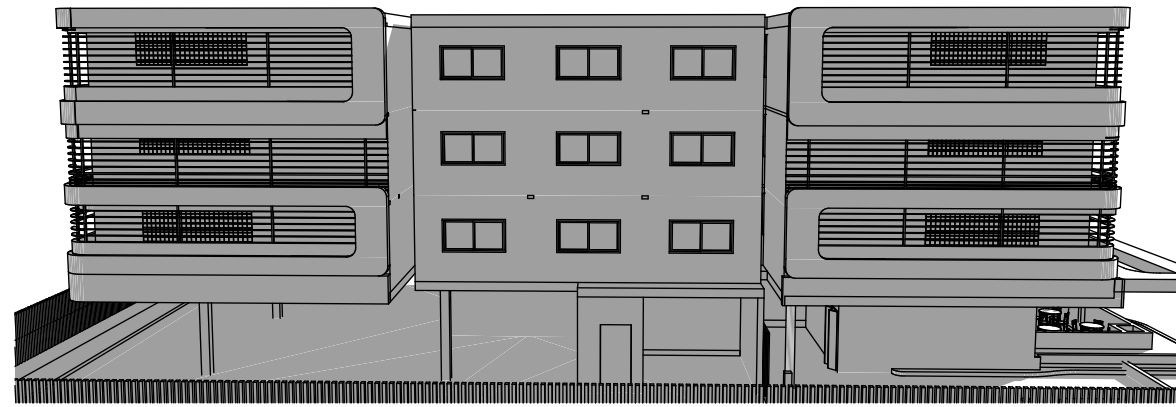
East facade 21 Jun-Midday



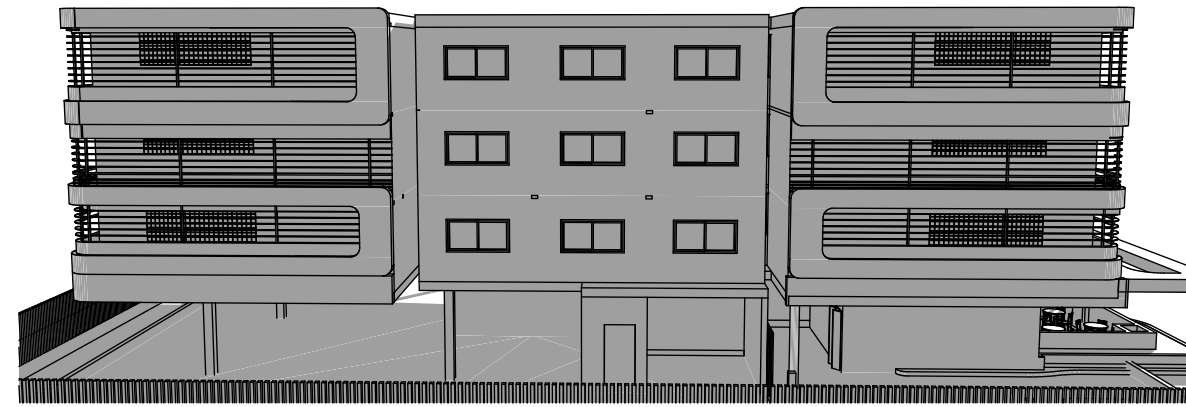
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East facade 21 Jun-1 PM

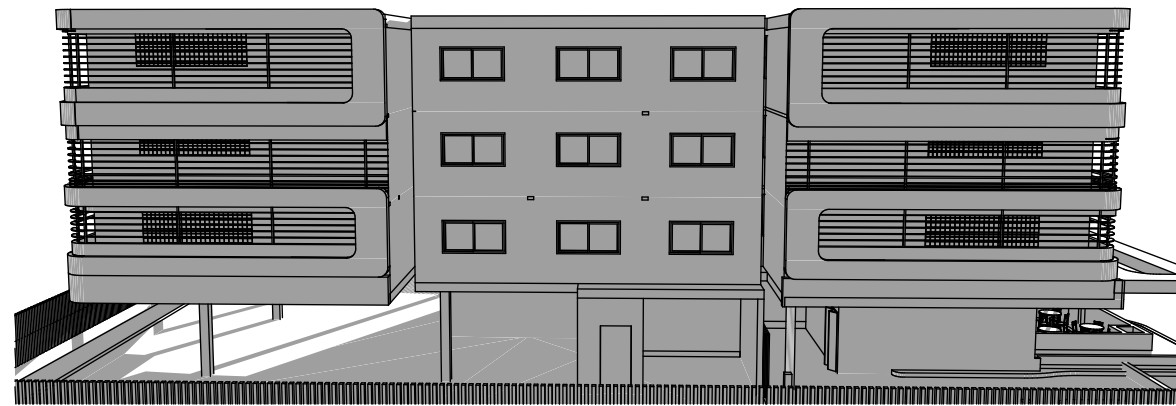




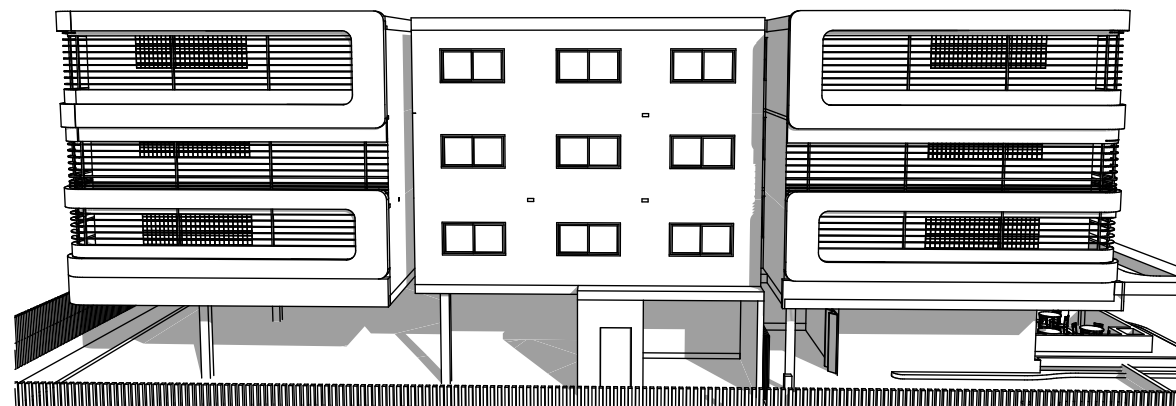
1 East facade 21 Jun-2 PM



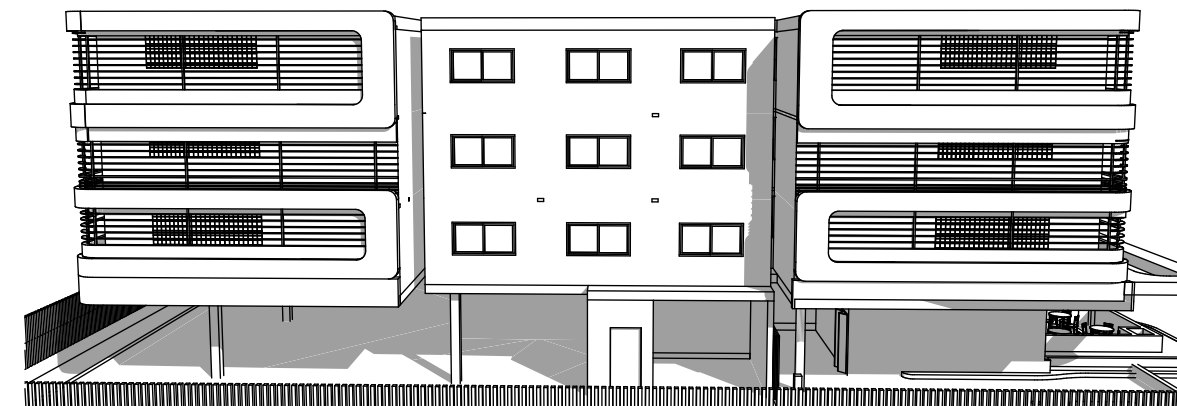
2 East facade 21 Jun-3 PM



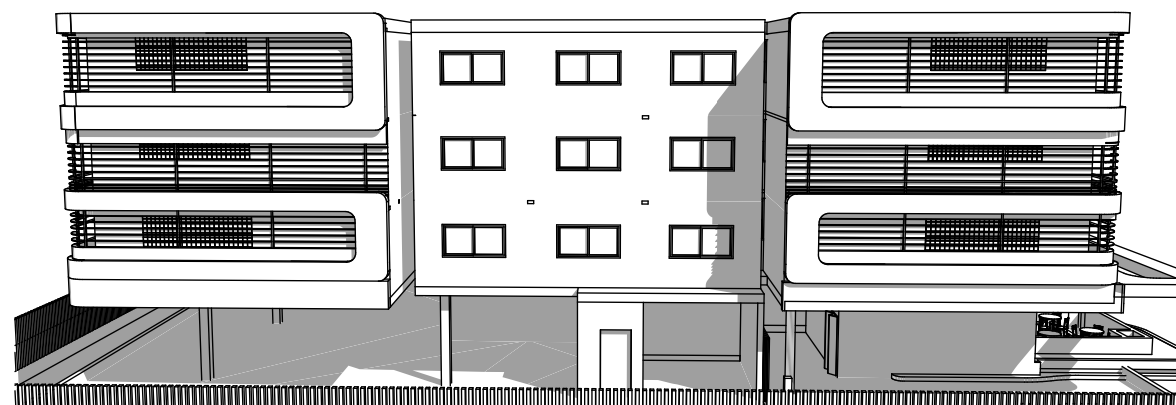
3 East facade 21 Jun-4 PM



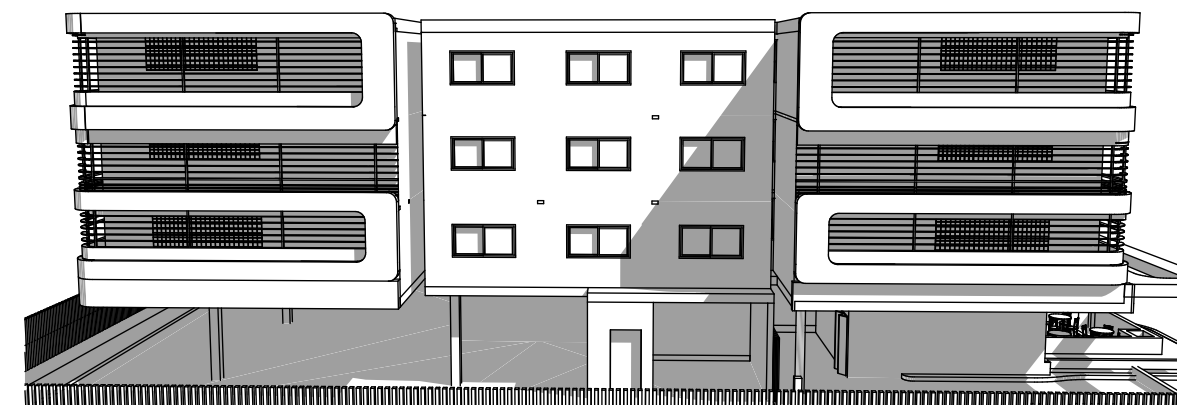
1 East facade 21 March-8 AM



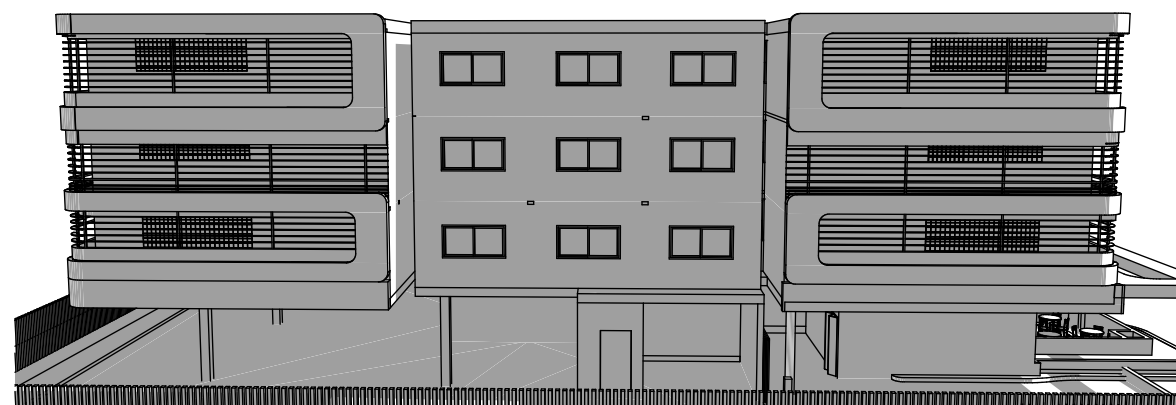
2 East facade 21 March-9 AM



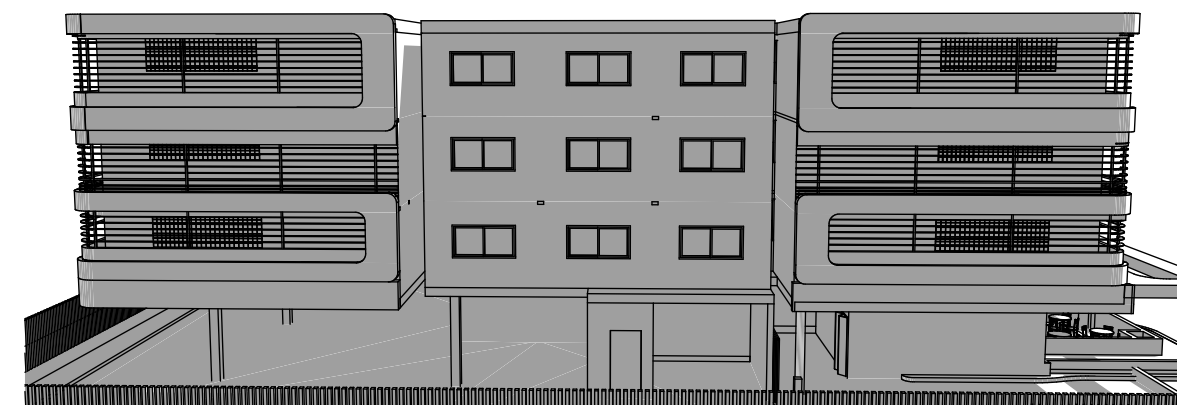
3 East facade 21 March-10 AM



4 East facade 21 March-11 AM

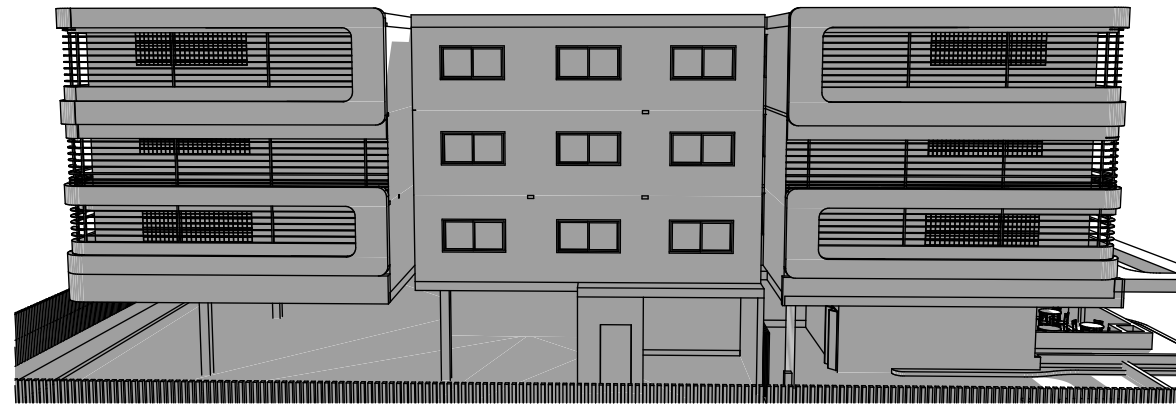


5 East facade 21 March-Midday



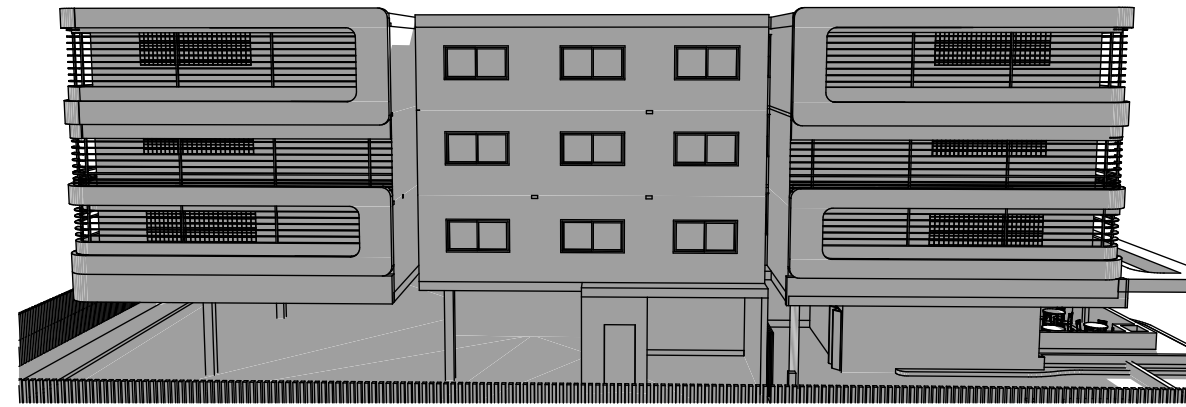
6 East facade 21 March-1 PM





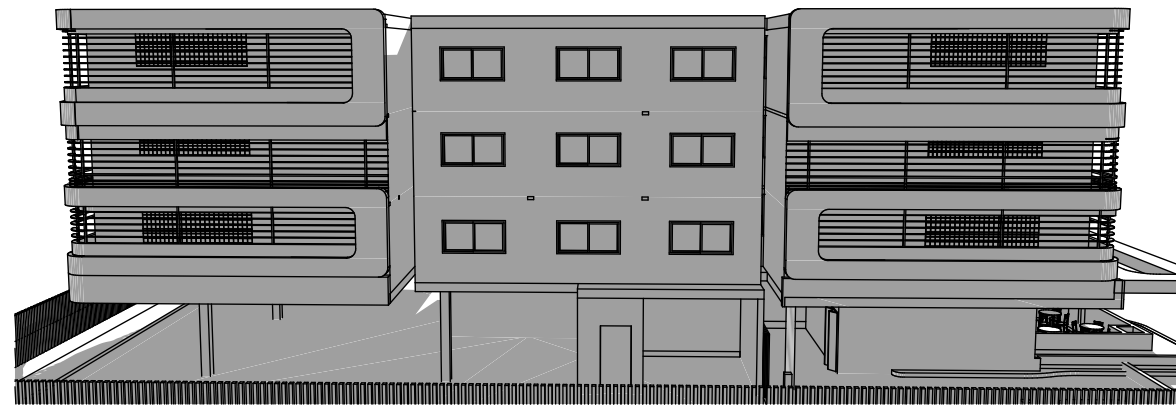
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East facade 21 March-2 PM



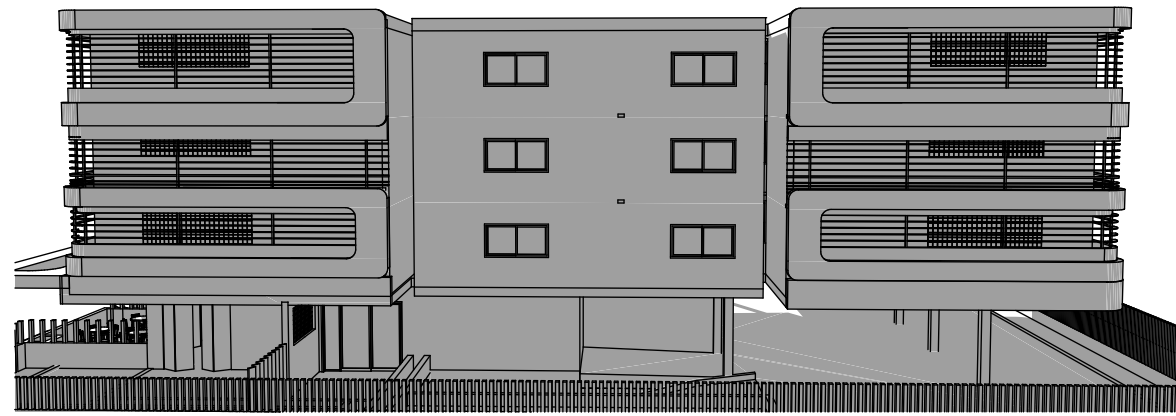
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East facade 21 March-3 PM



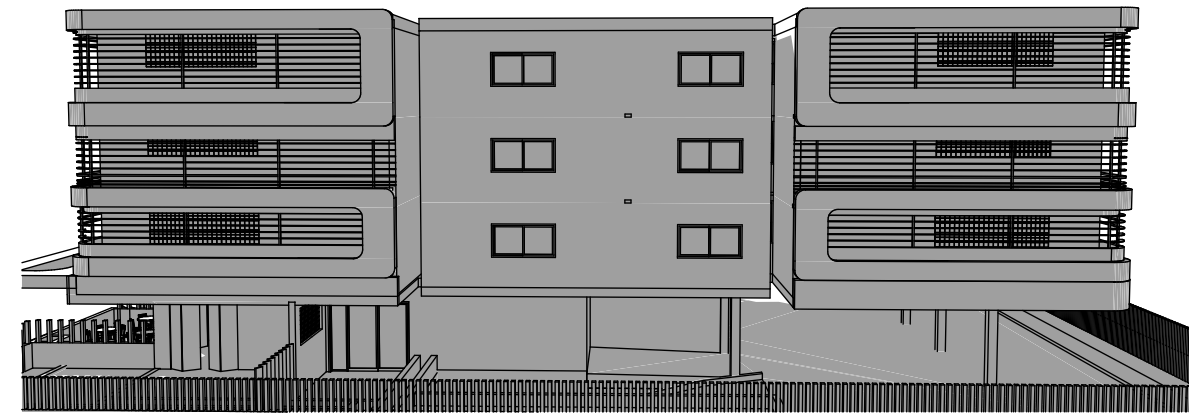
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East facade 21 March-4 PM



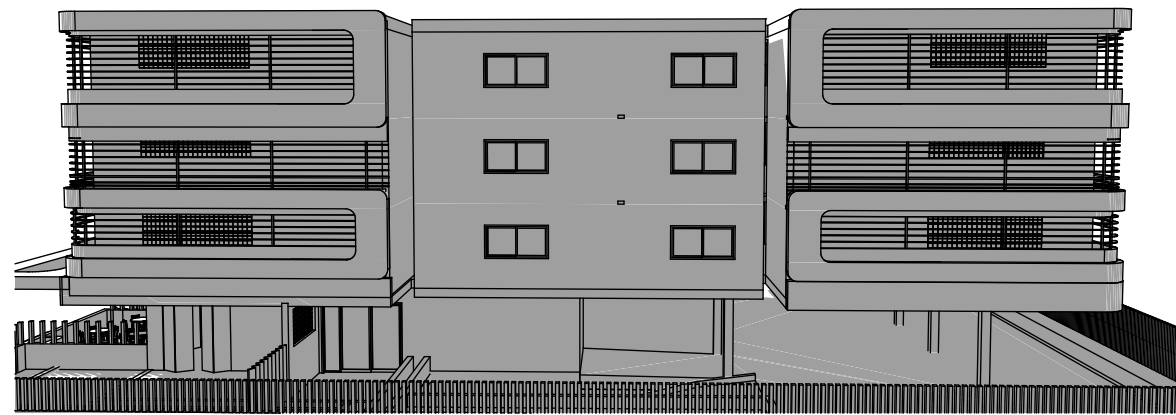
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West facade 21 Sep.-8 AM



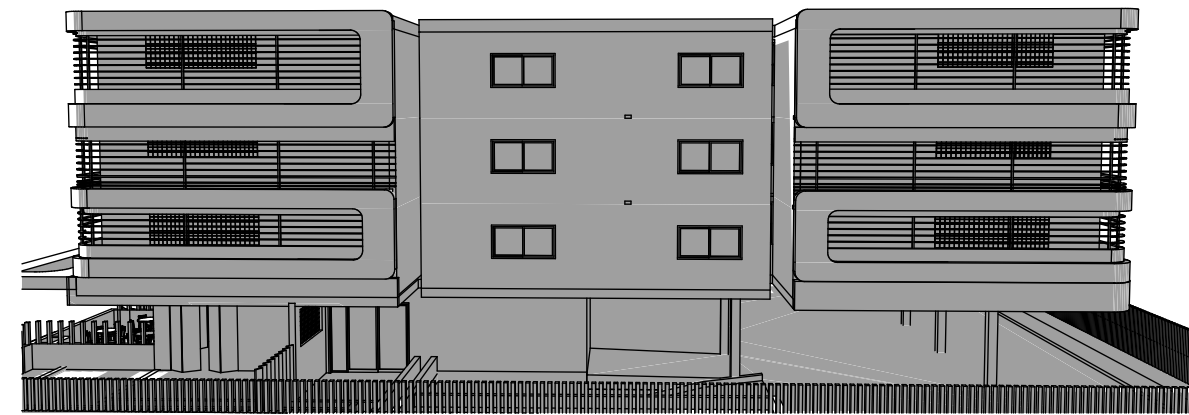
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West facade 21 Sep.-9 AM



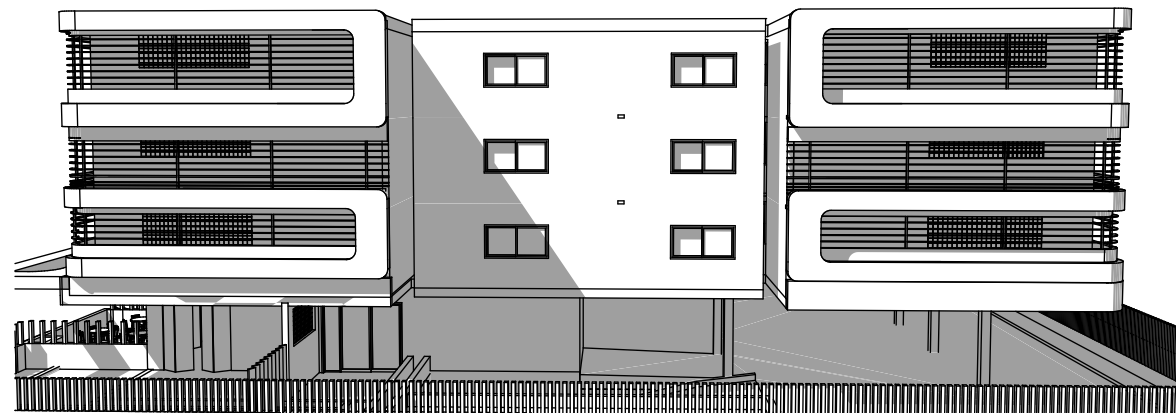
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West facade 21 Sep.-10 AM



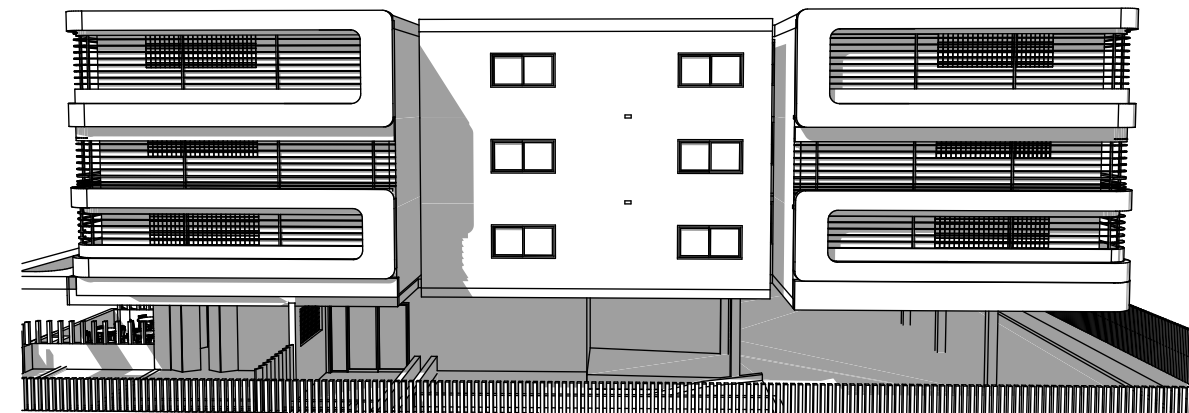
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West facade 21 Sep.-11 AM



5

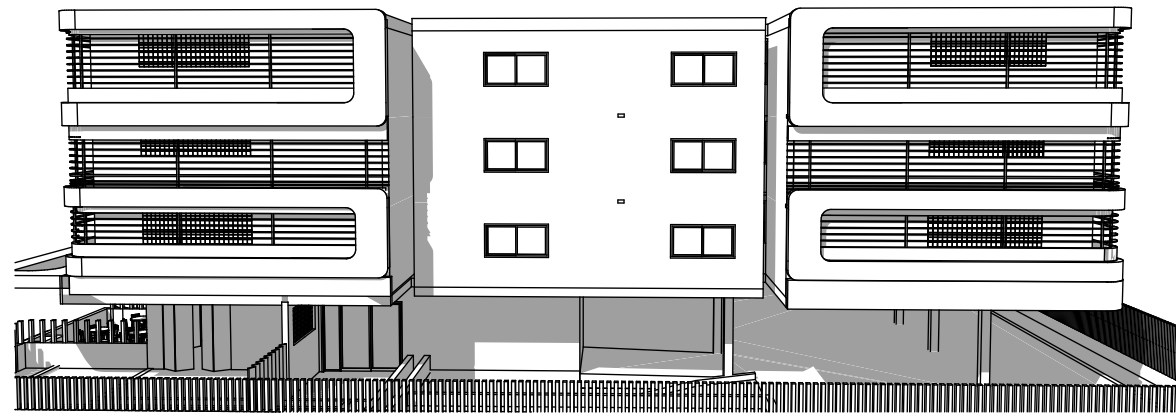
West facade 21 Sep.-Midday



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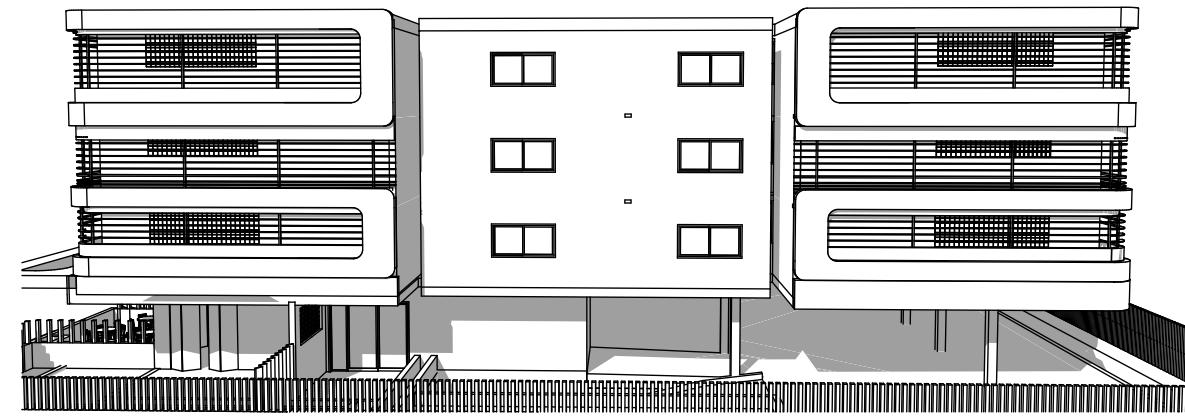
West facade 21 Sep.-1 PM





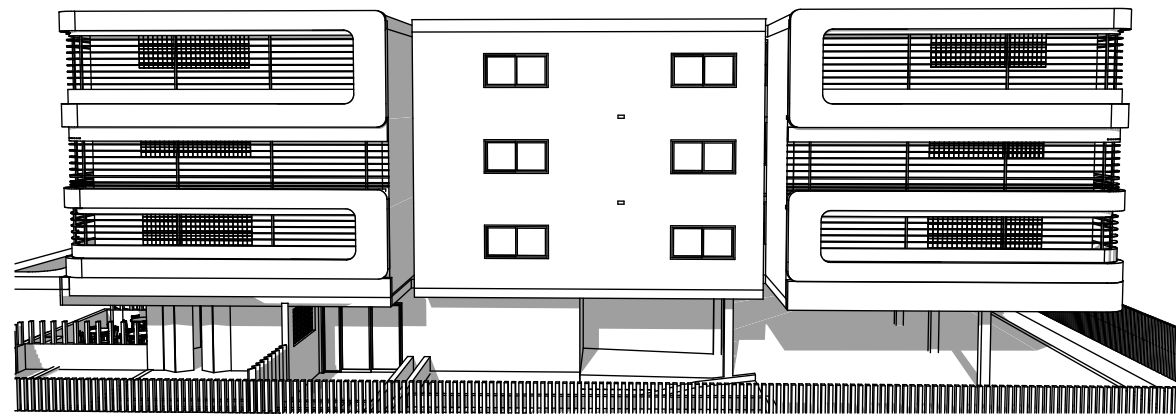
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West facade 21 Sep.-2 PM



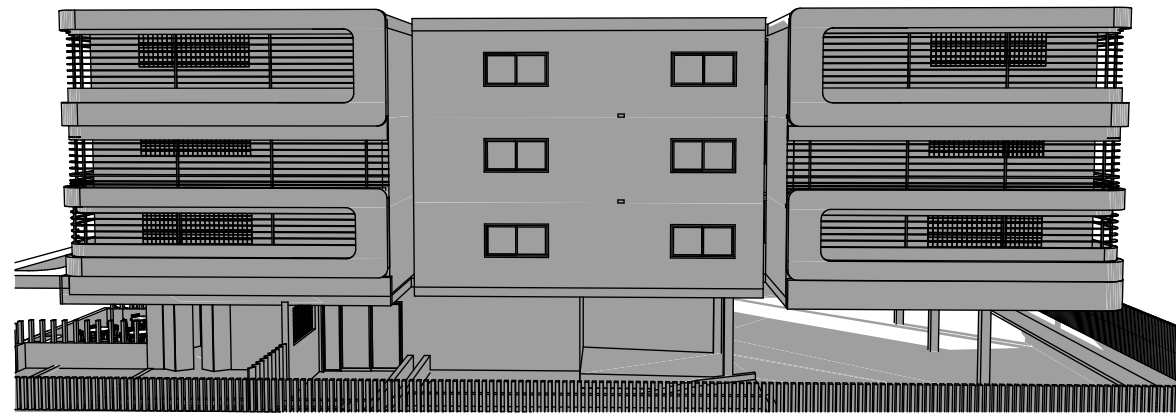
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West facade 21 Sep.-3 PM

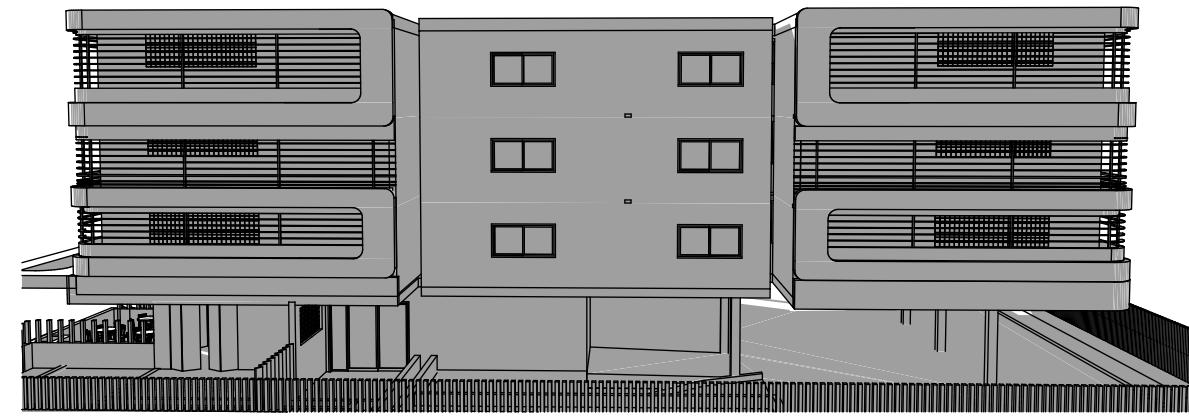


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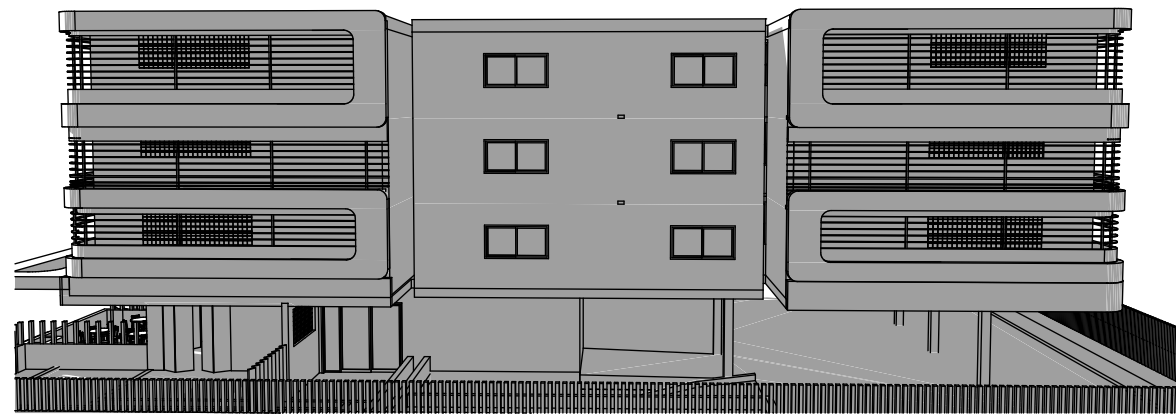
West facade 21 Sep.-4 PM



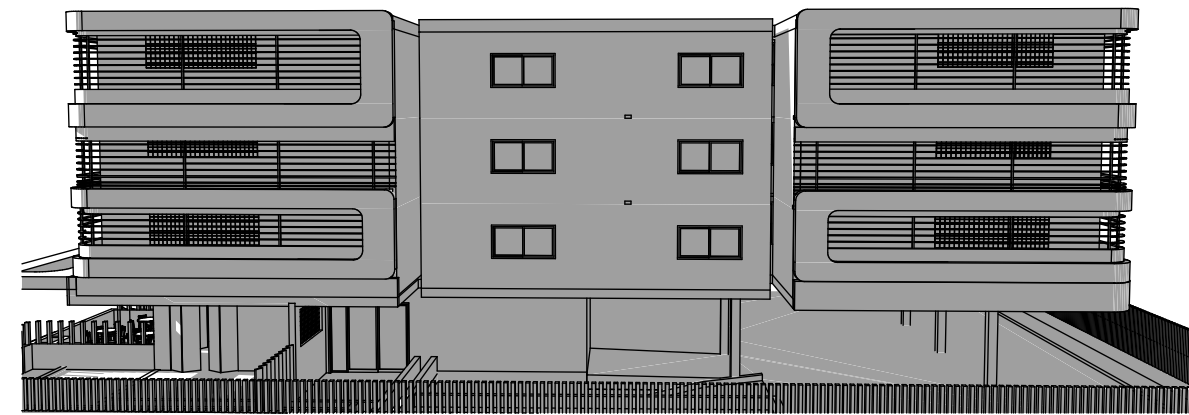
1 West facade 21 Jun-8 AM



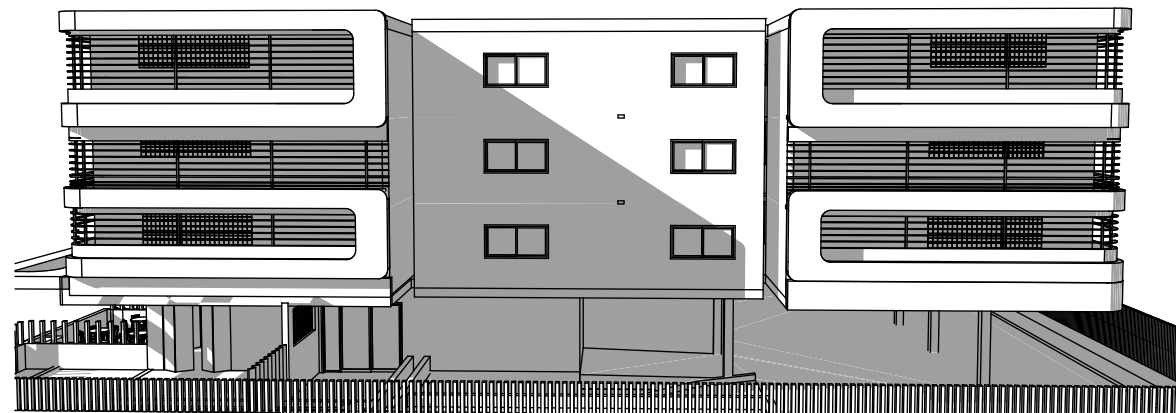
2 West facade 21 Jun-9 AM



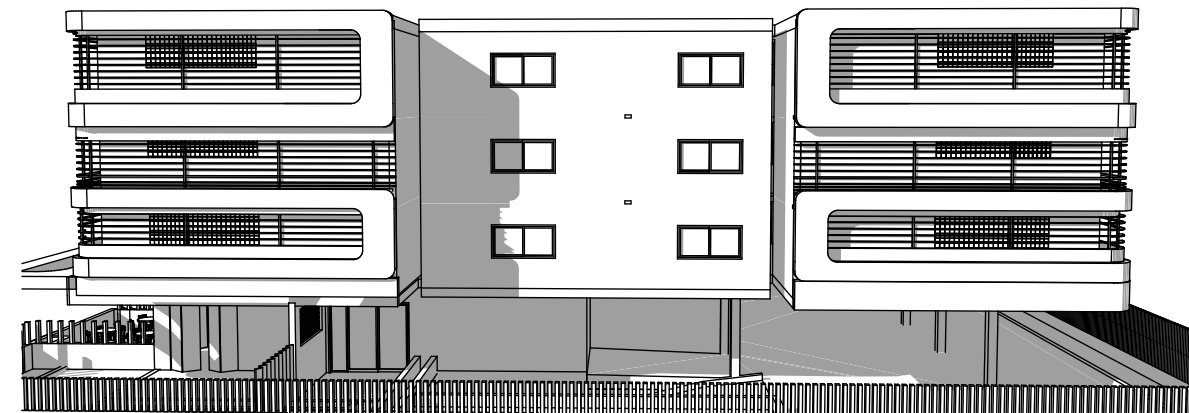
3 West facade 21 Jun-10 AM



4 West facade 21 Jun-11 AM

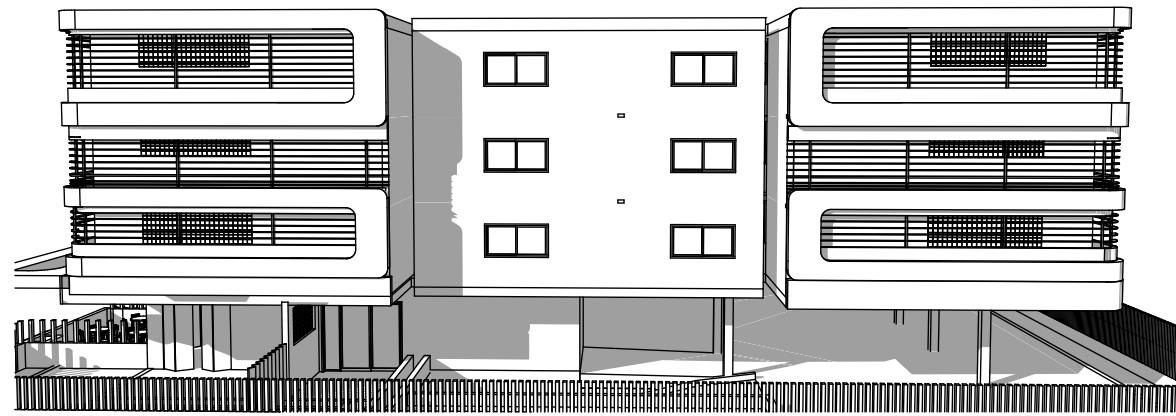


5 West facade 21 Jun-Midday



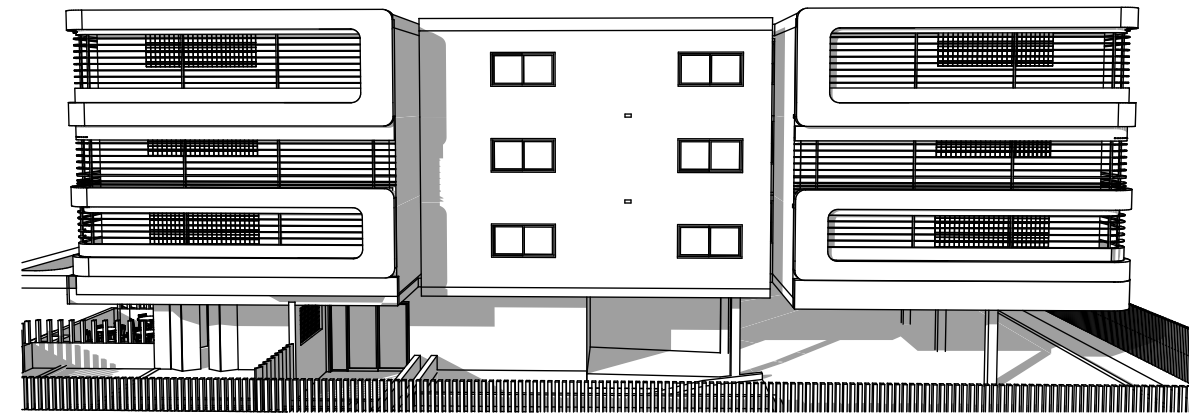
6 West facade 21 Jun-1 PM





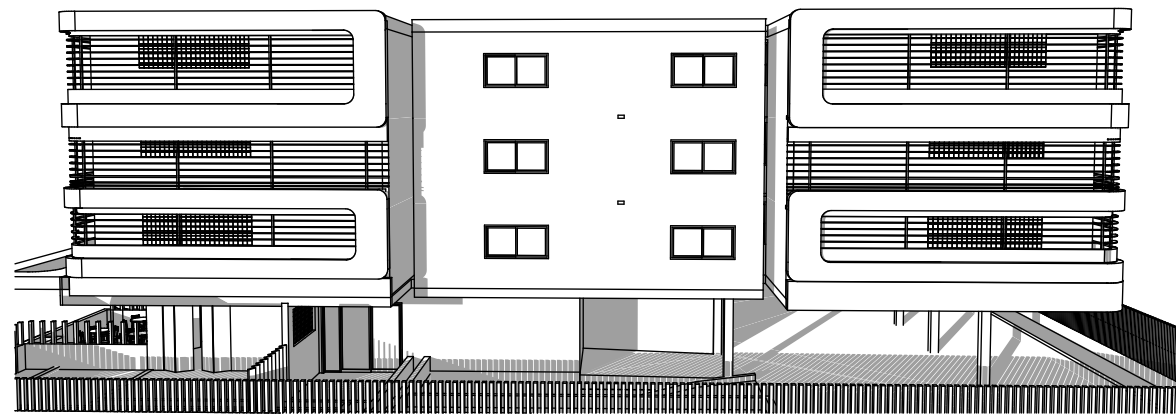
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West facade 21 Jun-2 PM



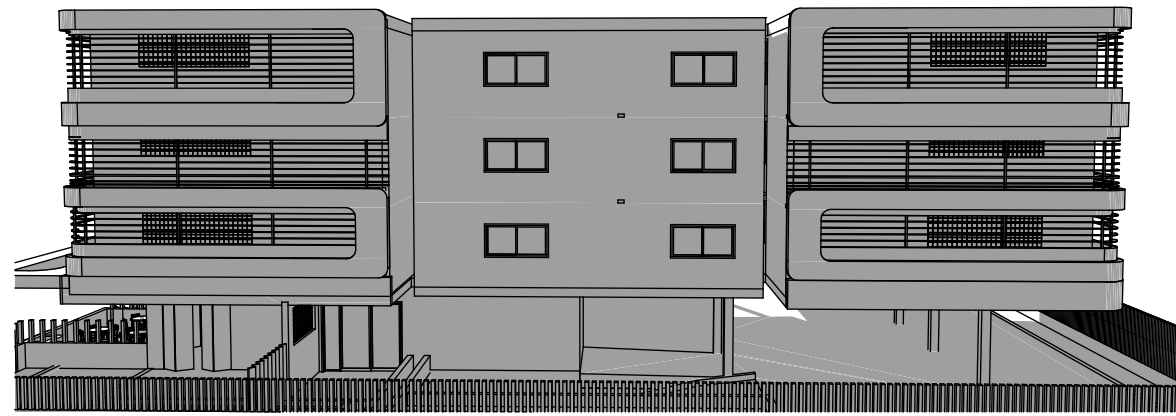
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West facade 21 Jun-3 PM

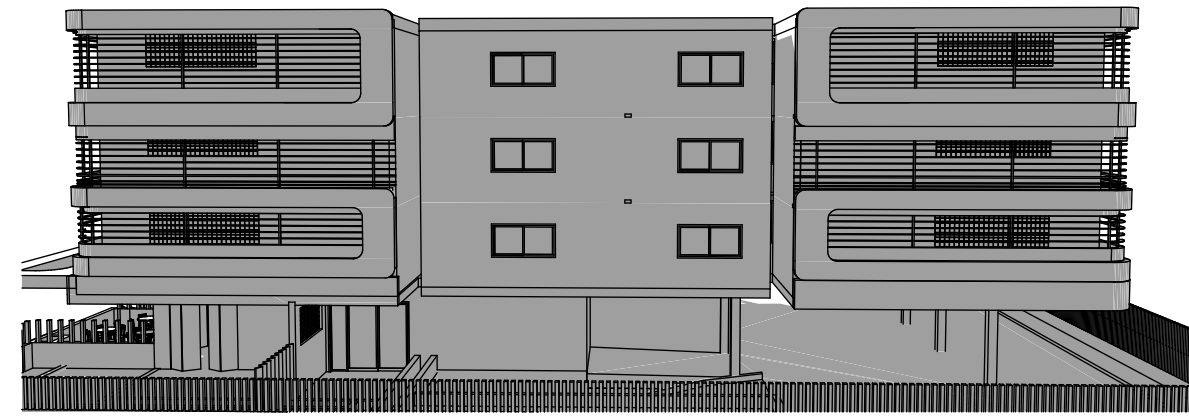


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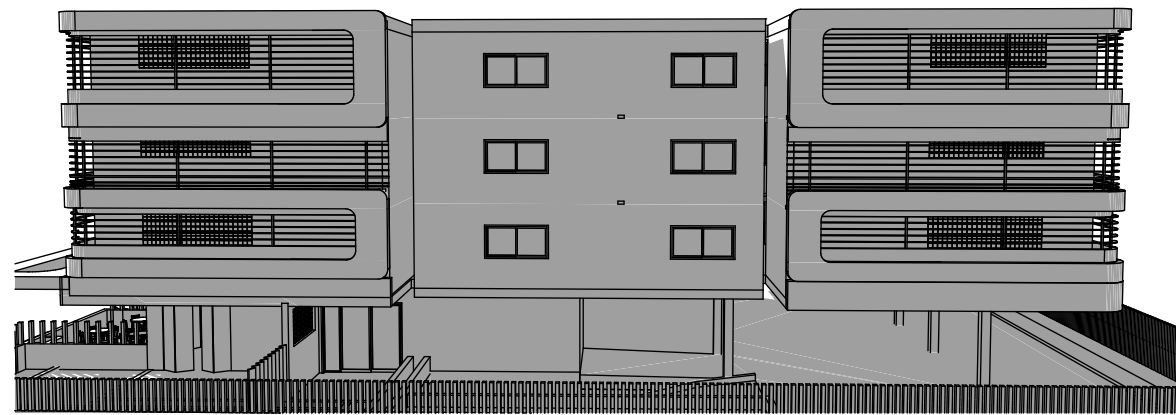
West facade 21 Jun-4 PM



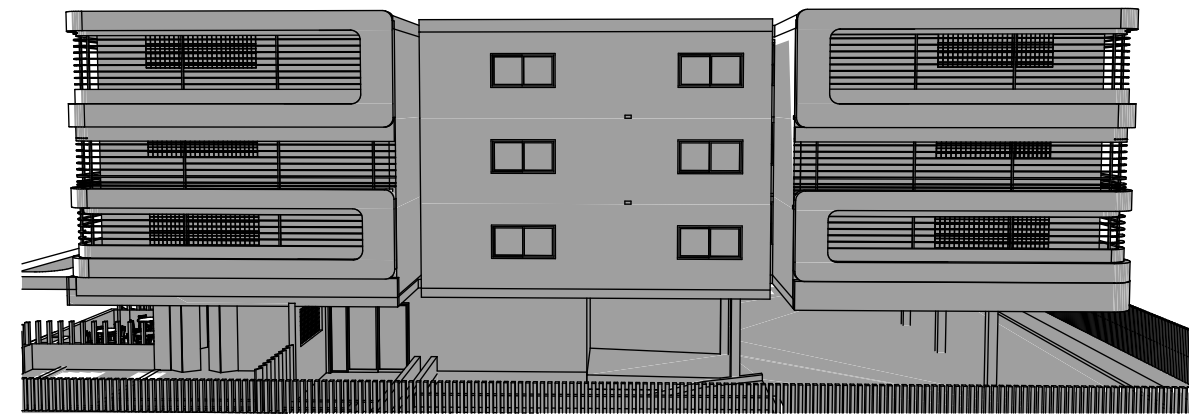
1 West facade 21 March-8 AM



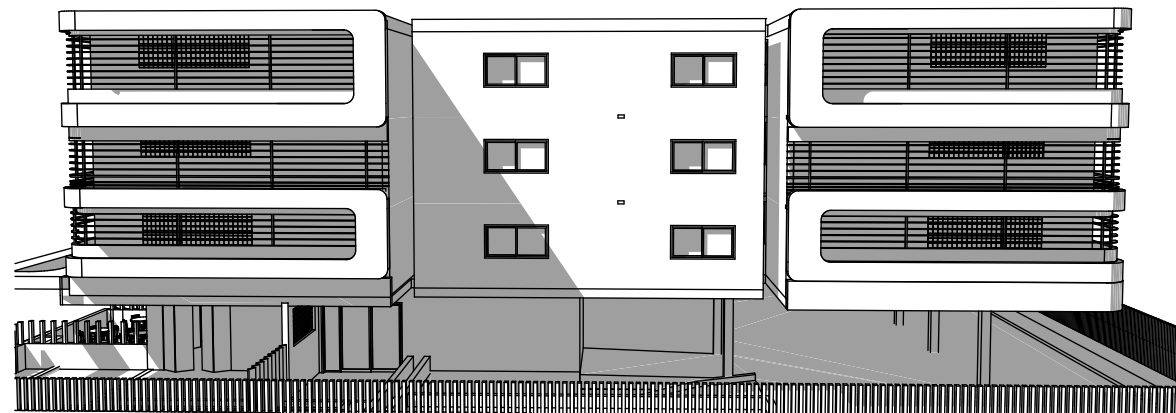
2 West facade 21 March-9 AM



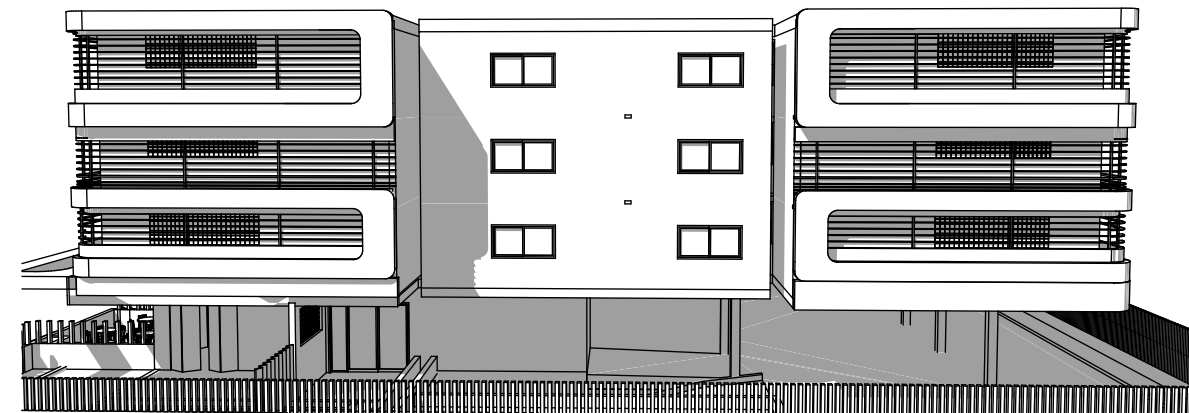
3 West facade 21 March-10 AM



4 West facade 21 March-11 AM

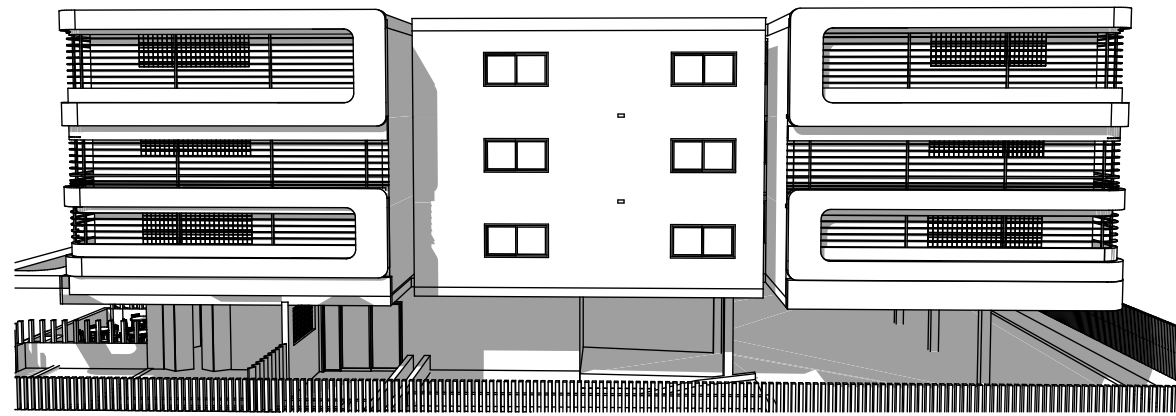


5 West facade 21 March-Midday



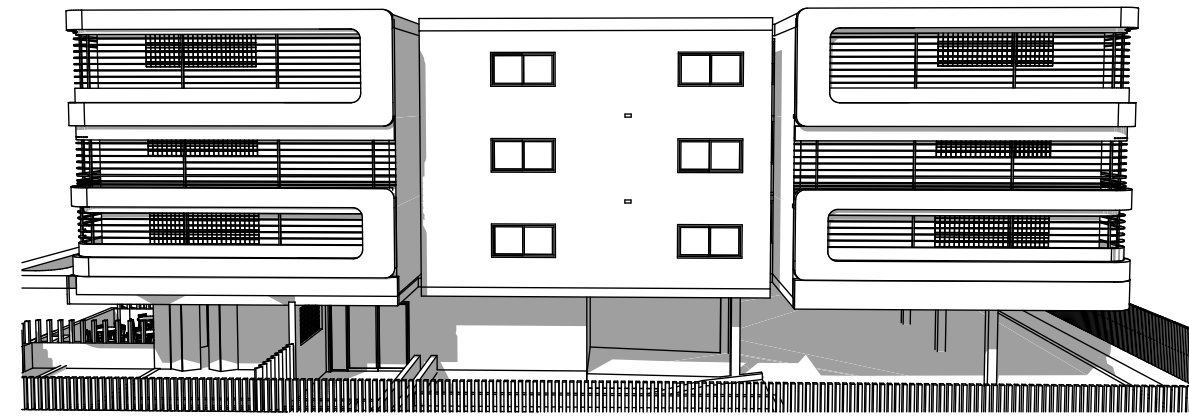
6 West facade 21 March-1 PM





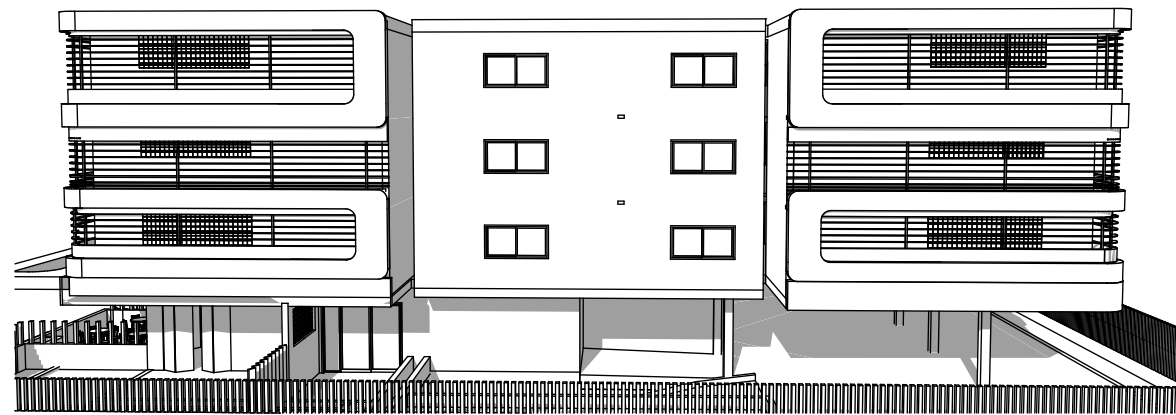
1

West facade 21 March-2 PM



2

West facade 21 March-3 PM



3

West facade 21 March-4 PM





C