

Revit Feasibility Site/Controls

Revit

Site and Massing Study

1: Site/Controls

2: Building Massing

3: Design Options

4: Scheduling Areas

5: Shadow Diagrams



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Dynamo

Site Analysis

5: Face Analysis Grids

6: View Analysis

7: Sun Hour Analysis

8: Analysis Refinement

9: Power BI Report



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Power BI

Analysis and reporting

10: Power BI Report



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Planning Controls

Local environmental plans



Sydney LEP 2012

You can view the Sydney Local Environmental Plan 2012 and the maps adopted by the plan on the NSW legislation website.

[View the plan](#) 



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Planning Controls

Development control plans



Sydney DCP 2012 maps

The Sydney Development Control Plan 2012 applies to most of the City of Sydney local area. You can see more detailed maps about specific areas of the city.

[View local sheet maps](#)



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There's a **LOT** of them

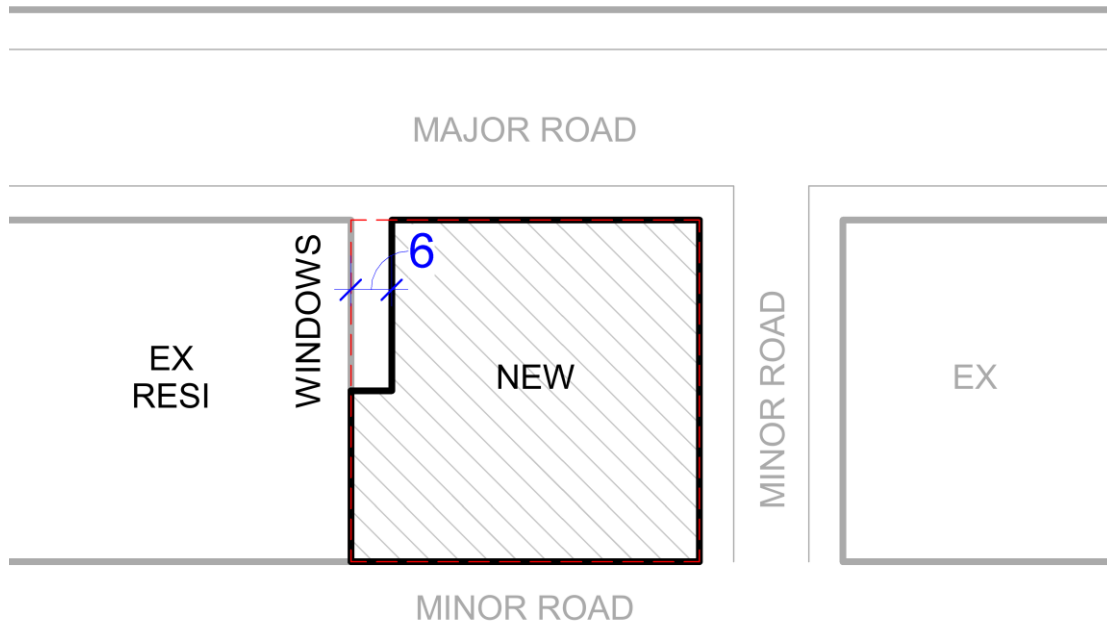
And it isn't the point of the
series to cover them



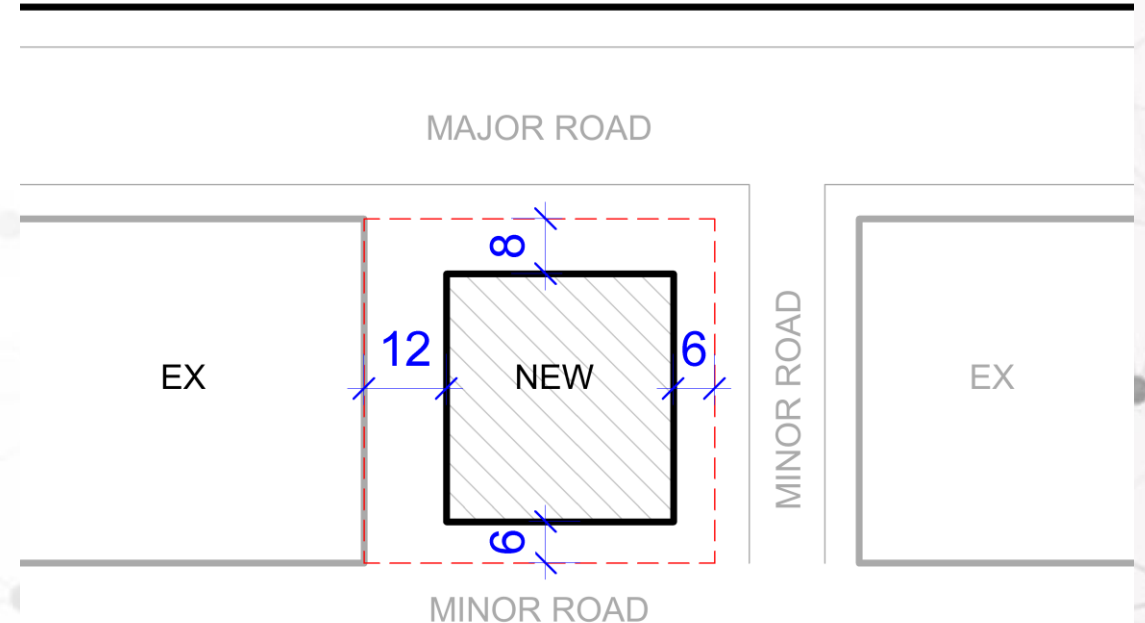
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Setbacks

FRONTAGE LEVEL (20 to 45m) ANY RESIDENTIAL

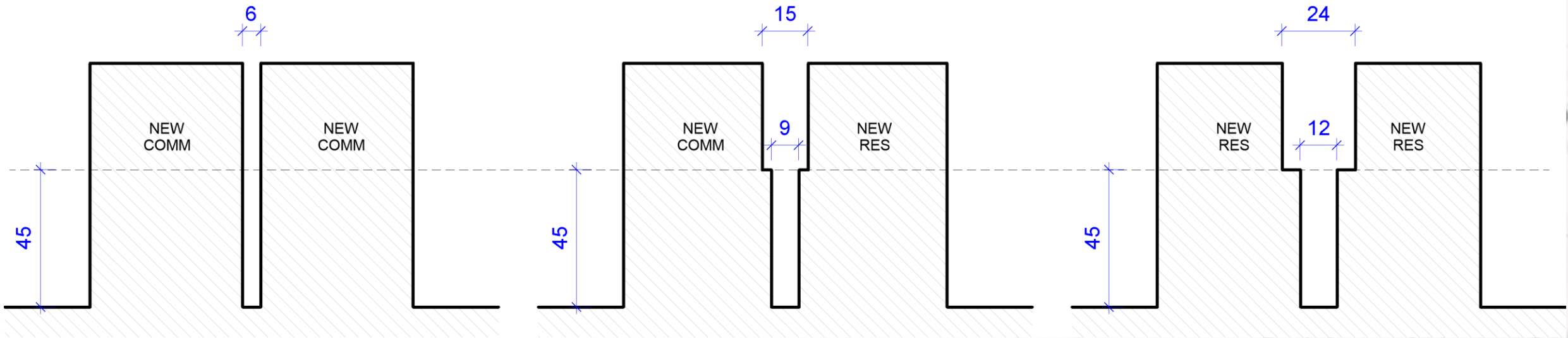


ABOVE FRONTAGE (45m) ANY RESIDENTIAL



Setbacks

INTER-SITE SEPARATIONS



Height Limits

Height of Buildings Map
- Sheet HOB_014

Maximum Building Height (m)

A	3	W2	42
E	6	X	45
H	7.5	Y	50
I	8	Z	55
J	9	AA1	60
L	11	AA2	65
M	12	AA3	70
O	15	AB1	80
P	18	AB2	85
R	22	AC	110
S	24	AD	130
T1	25	AE	150
T2	27	AH	235
T3	28	Area 1	
T4	29	Area 2	
U1	30	Area 3	
U2	33	Area 4	
V	35	Area 5	
W1	40	Area 6	

Maximum Building Height (m) Heights shown on map in RL (m)

10 - 20	60 - 70
20 - 30	70 - 80
30 - 40	90 - 100
40 - 50	110 - 120
50 - 60	

Cadastral

Cadastral 10/08/2015 © City of Sydney



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Sun Access Planes

(5) Belmore Park

For the Belmore Park 1A sun access plane:

- (a) X is a point at 34067E, 49731N, 30RL, and

Note. Approximately 25 metres above the northern alignment of Hay Street 95 metres west from the junction of the northern alignment of Hay Street and the western alignment of Pitt Street.

- (b) Y is a point at 34297E, 49681N, 34RL, and

Note. Approximately 25 metres above the junction of the northern alignment of Hay Street and the western alignment of Castlereagh Street.

- (c) B is 359.0 degrees, and

- (d) V is 32.7 degrees.

(6) For the Belmore Park 1B sun access plane:

- (a) X is a point at 34115E, 49582N, 44RL, and

Note. Approximately 35 metres above the junction of the western alignment of Pitt Street and the northern alignment of Barlow Street.

- (b) Y is a point at 34140E, 49622N, 43RL, and

Note. Approximately 35 metres above the western alignment of Pitt Street 45 metres north from the junction of the western alignment of Pitt Street and the northern alignment of Barlow Street.

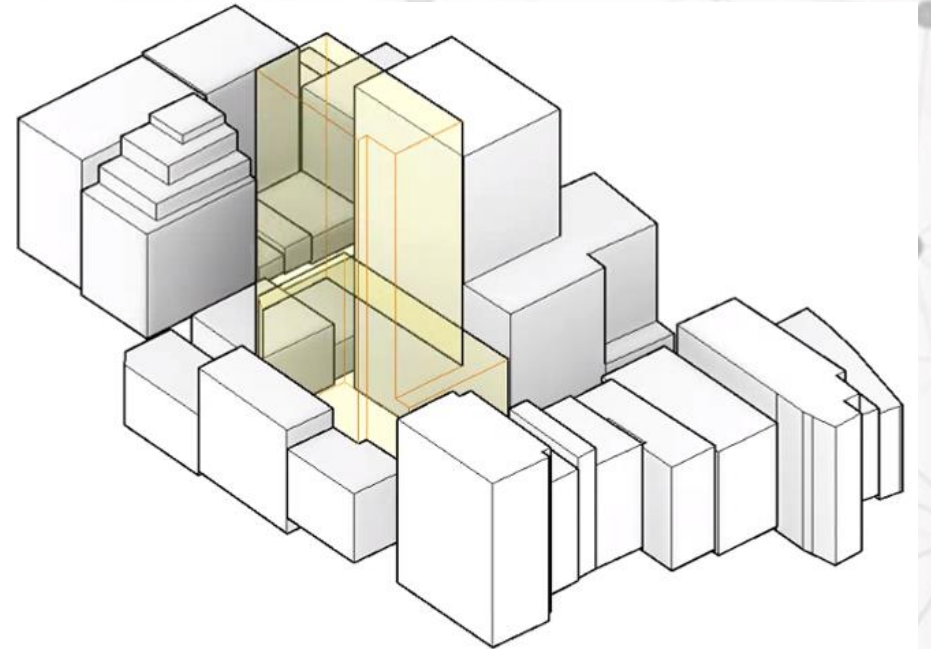
- (c) B is 328.6 degrees, and

- (d) V is 25.6 degrees.



The Workflow

- Obtain **Site Model**
- **Process** CAD file
- Partially **model** site
- Establish **Ground Floor**
- Model **Controls**



Site Models

Lots of options in *major cities*

Accuracy/detail is key consideration

Instant CAD files for any location on earth.

CADMAPPER

Architects and urban planners use Cadmapper to save hours of routine drawing. It transforms data from public sources such as OpenStreetMap, NASA, and USGS into neatly organized CAD files.

It's **free** for areas up to 1 km² and over 200 whole city DXF files.

WORKS BEST WITH



AutoCAD



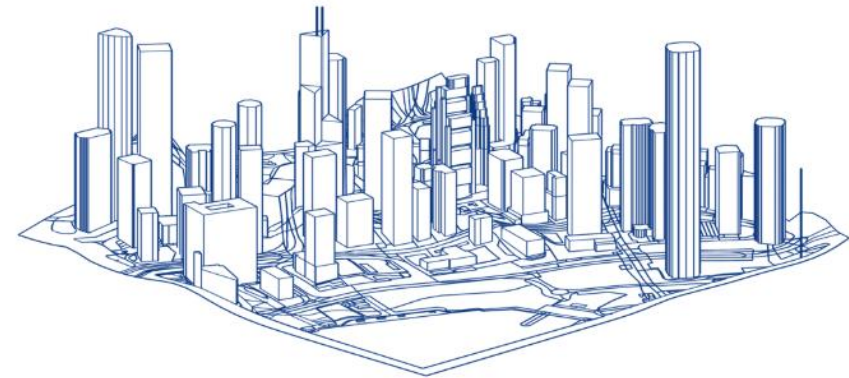
SketchUp 8+



Rhinoceros 5+



Illustrator



GET STARTED CREATING A FILE →



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A faint, light gray background graphic consisting of a network of interconnected dots and lines, resembling a molecular structure or a complex web, extending across the right side of the slide.

Without further ado...

Let's get started...



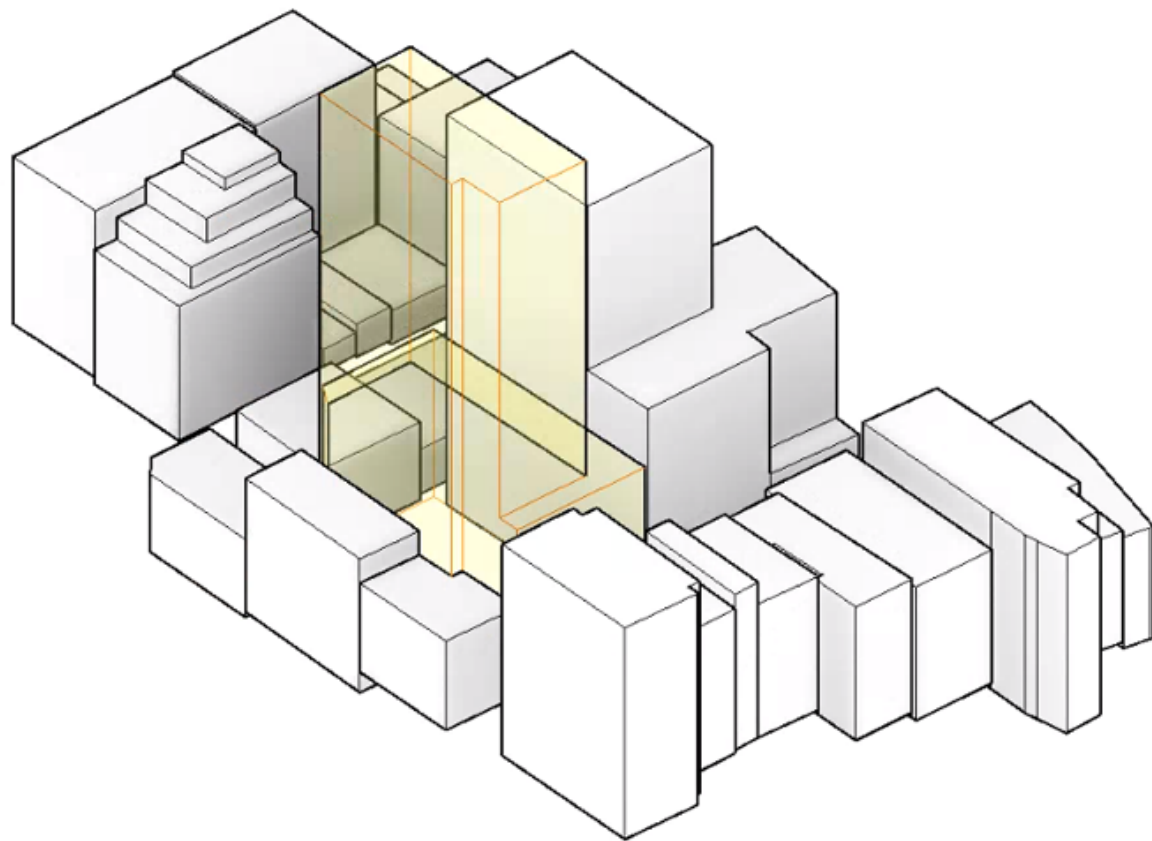
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Next: Part 2

Building Massing



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