

An architectural rendering of a modern urban district. The scene is a wide, pedestrian-friendly walkway with a checkered tile pattern. On the left, a modern building with a dark facade and large windows is partially visible, with a food cart and people in the foreground. On the right, a multi-story building with a glass facade and red vertical accents is shown, featuring a green wall and a balcony. The walkway is lined with trees and people walking. In the background, more modern buildings and a blue sky with clouds are visible. The text "PUNGGOL DIGITAL DISTRICT" is centered in the middle of the image.

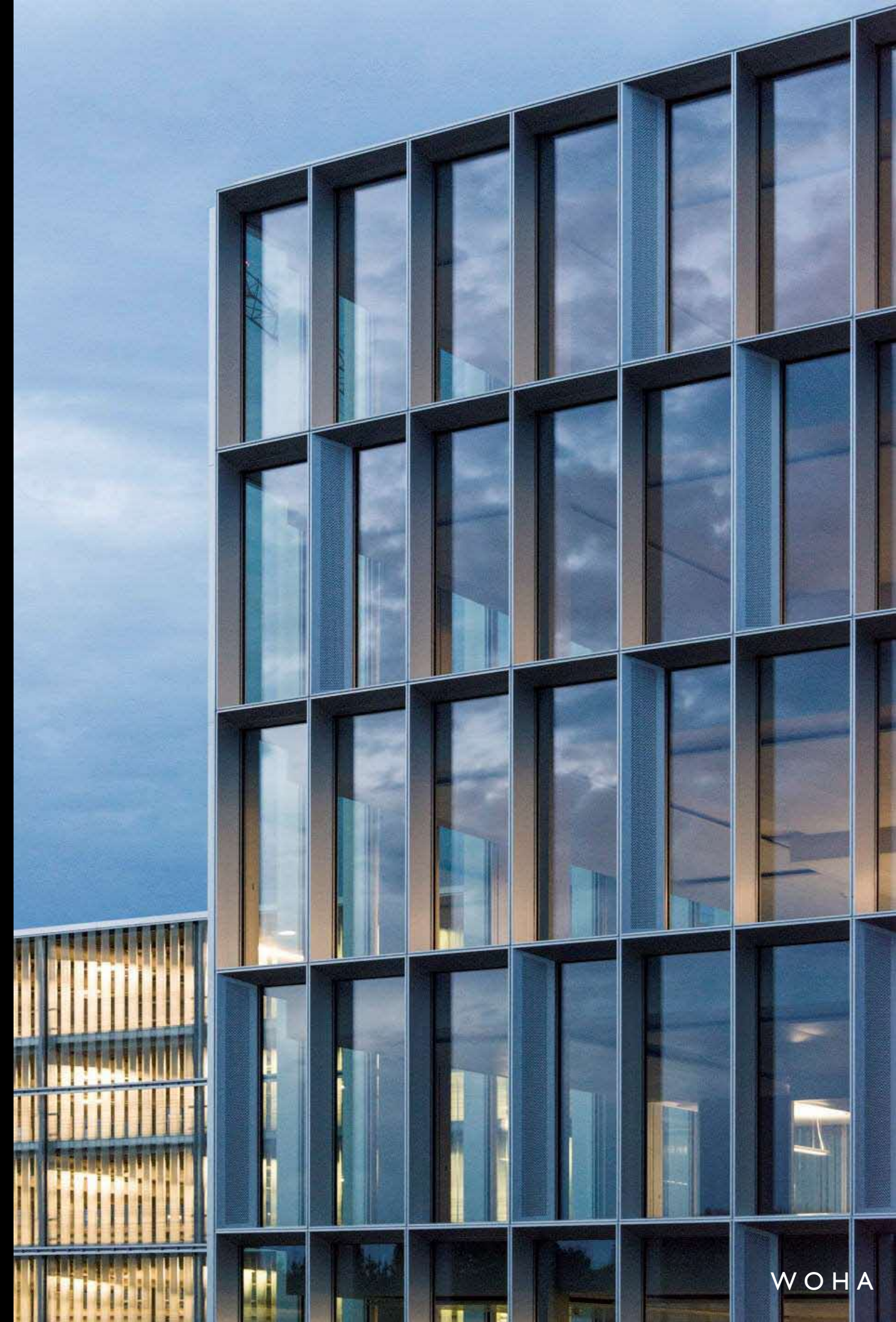
PUNGGOL DIGITAL DISTRICT

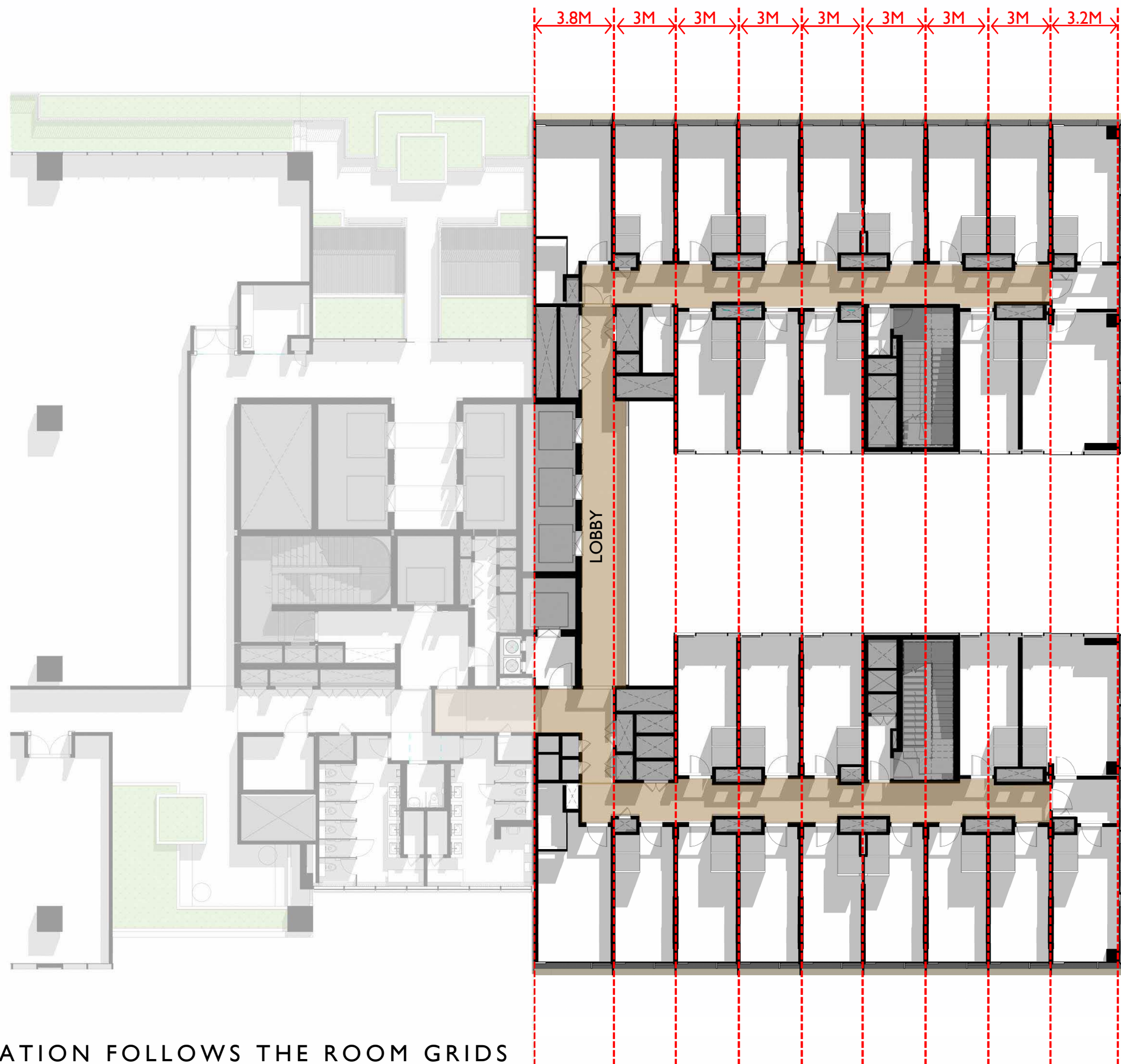
HOTEL ARCHITECTURE DESIGN GUIDE

- 1. HOTEL FACADE STRATEGIES
- 2. INTEGRATED LANDSCAPE STRATEGIES
- 3. HOTEL FACADE LIGHTING

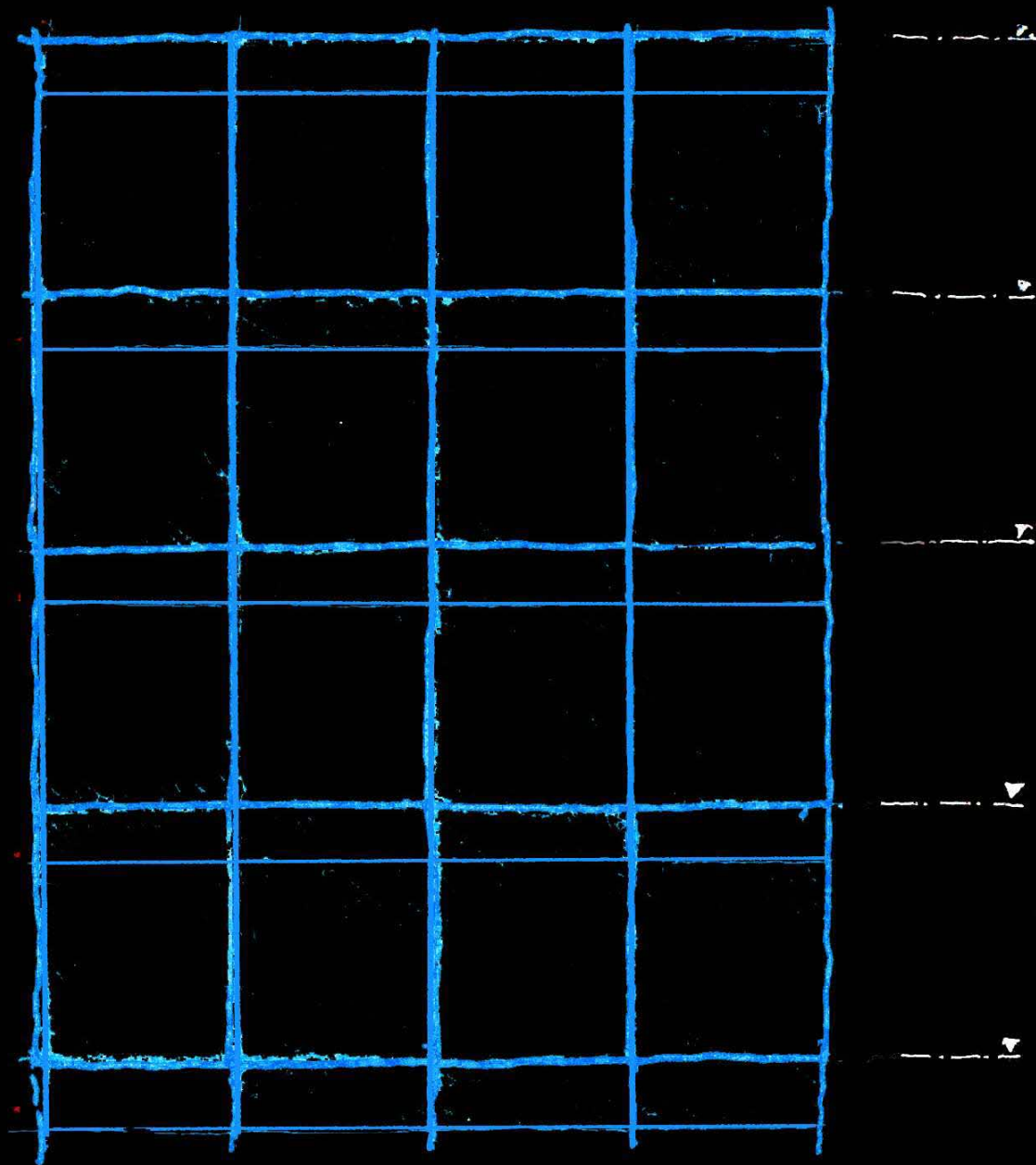
HOTEL FACADE STRATEGIES

- CURTAIN WALL FACADE
- SIMPLE ARTICULATED DESIGN EXPRESSION
- GLASS PROTECTED FROM SUN

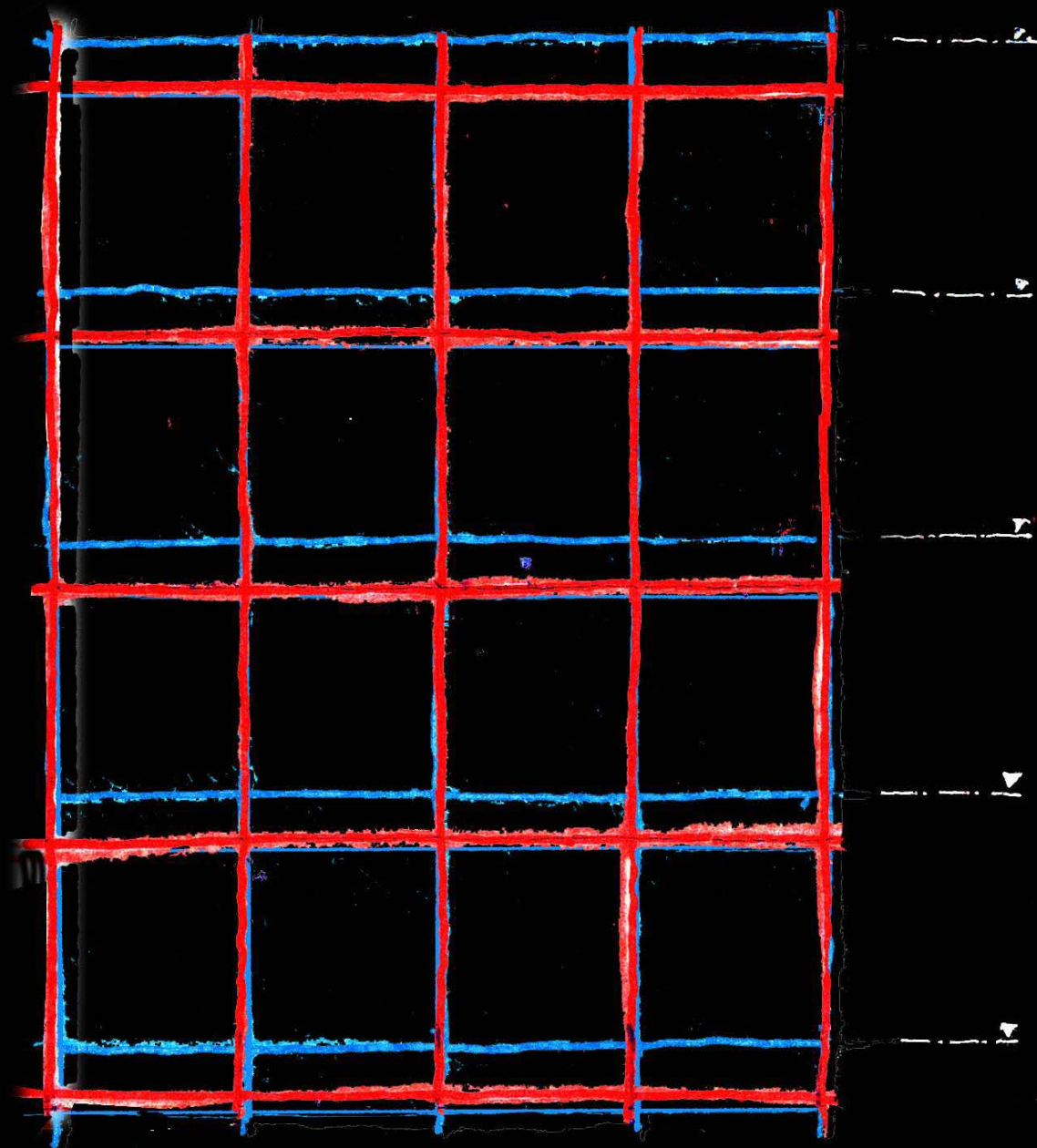




FAÇADE ARTICULATION FOLLOWS THE ROOM GRIDS

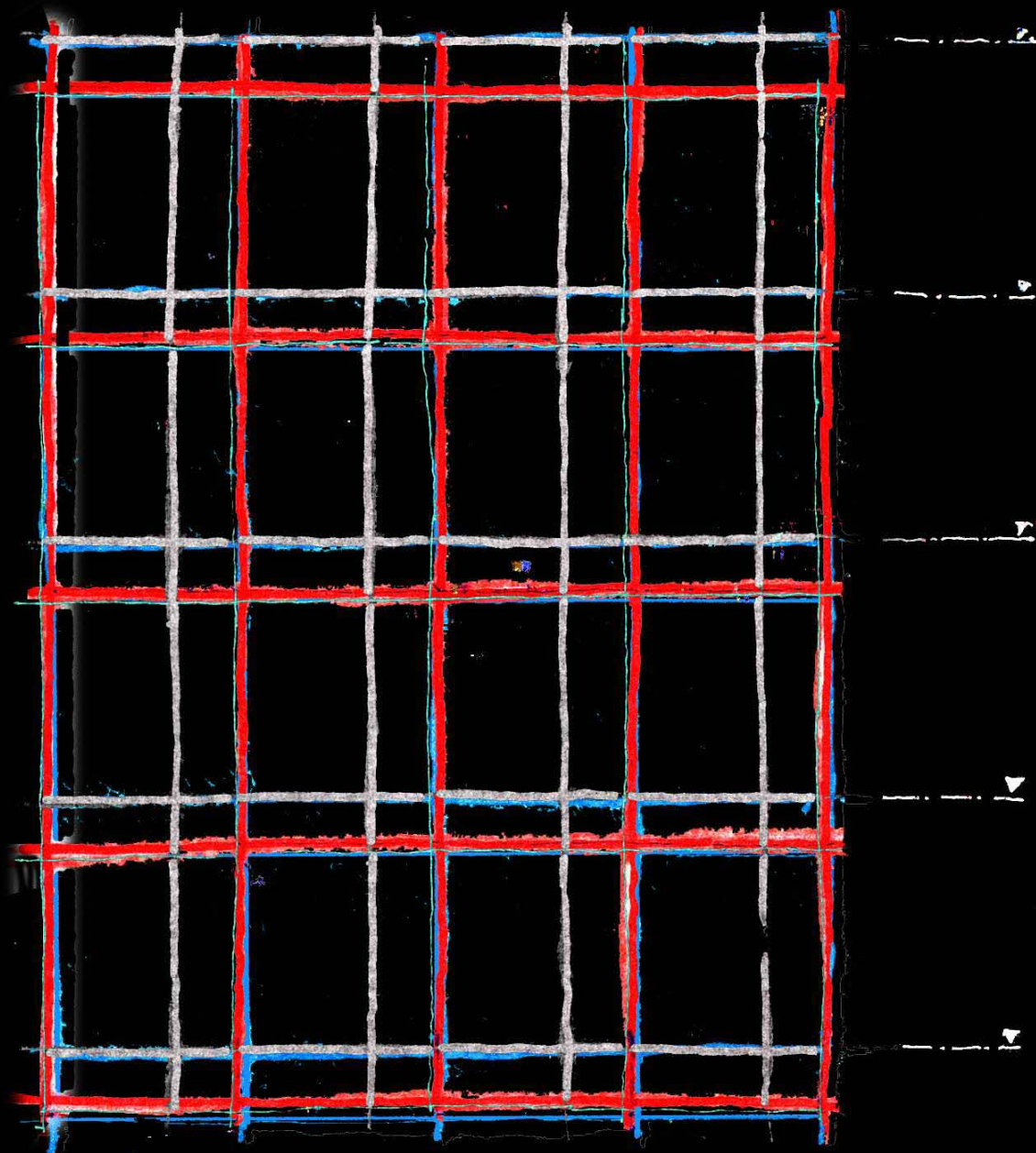


BASE CURTAIN WALL FAÇADE LAYER



BASE CURTAIN WALL FAÇADE LAYER

VERTICAL AND HORIZONTAL FINS
FOR SHADING AND DEFENITION



BASE CURTAIN WALL FAÇADE LAYER

VERTICAL AND HORIZONTAL FINS
FOR SHADING AND DEFINITION

FURTHER ARTICULATION FOR
SHADING



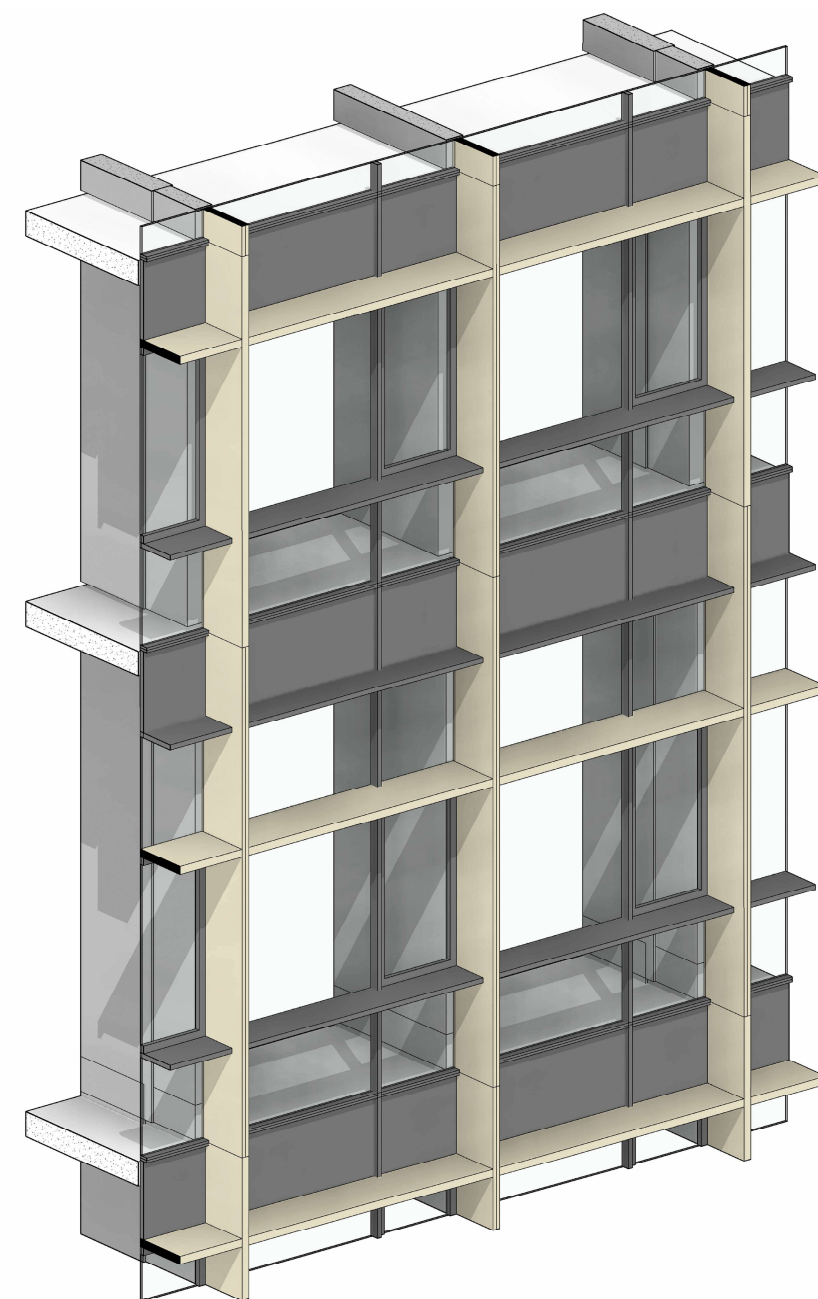
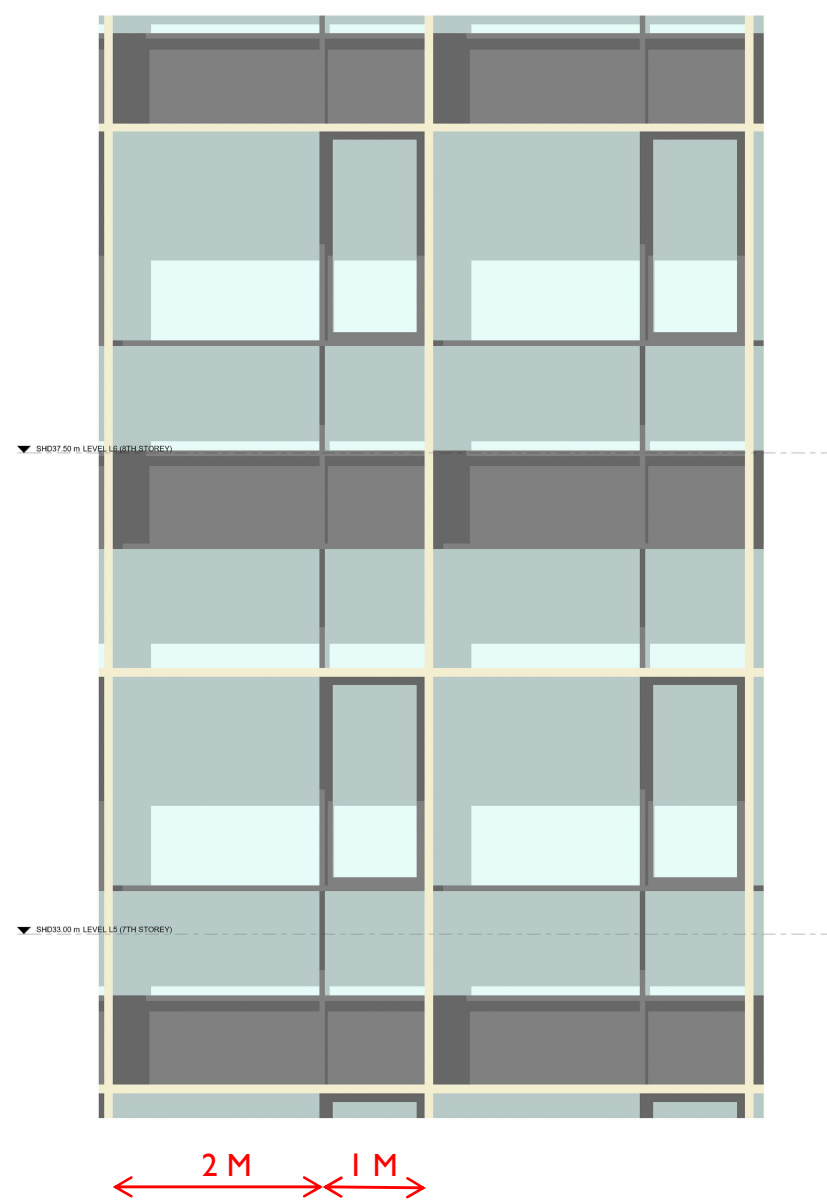
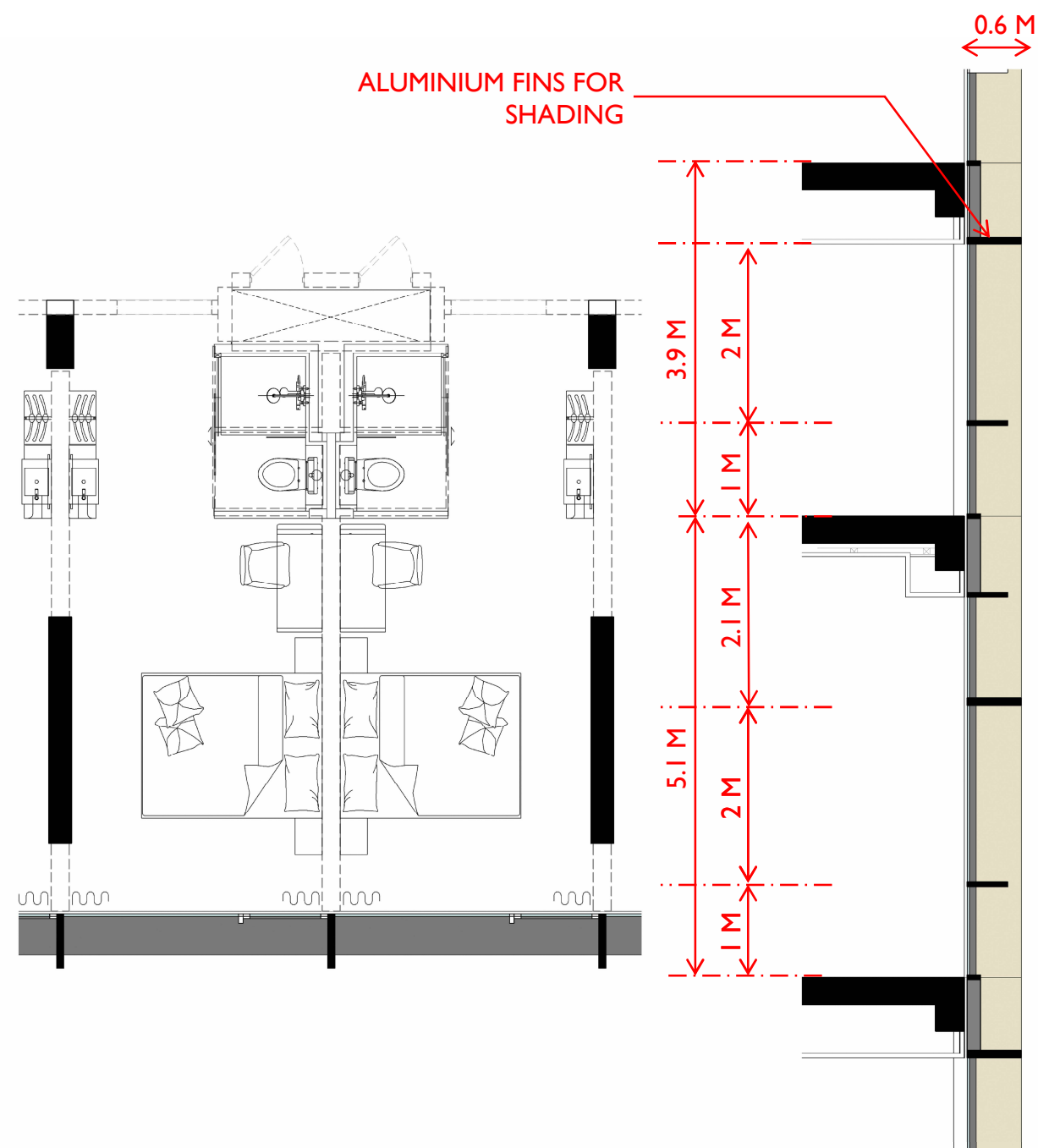
VIEW FROM PROMENADE PLAZA

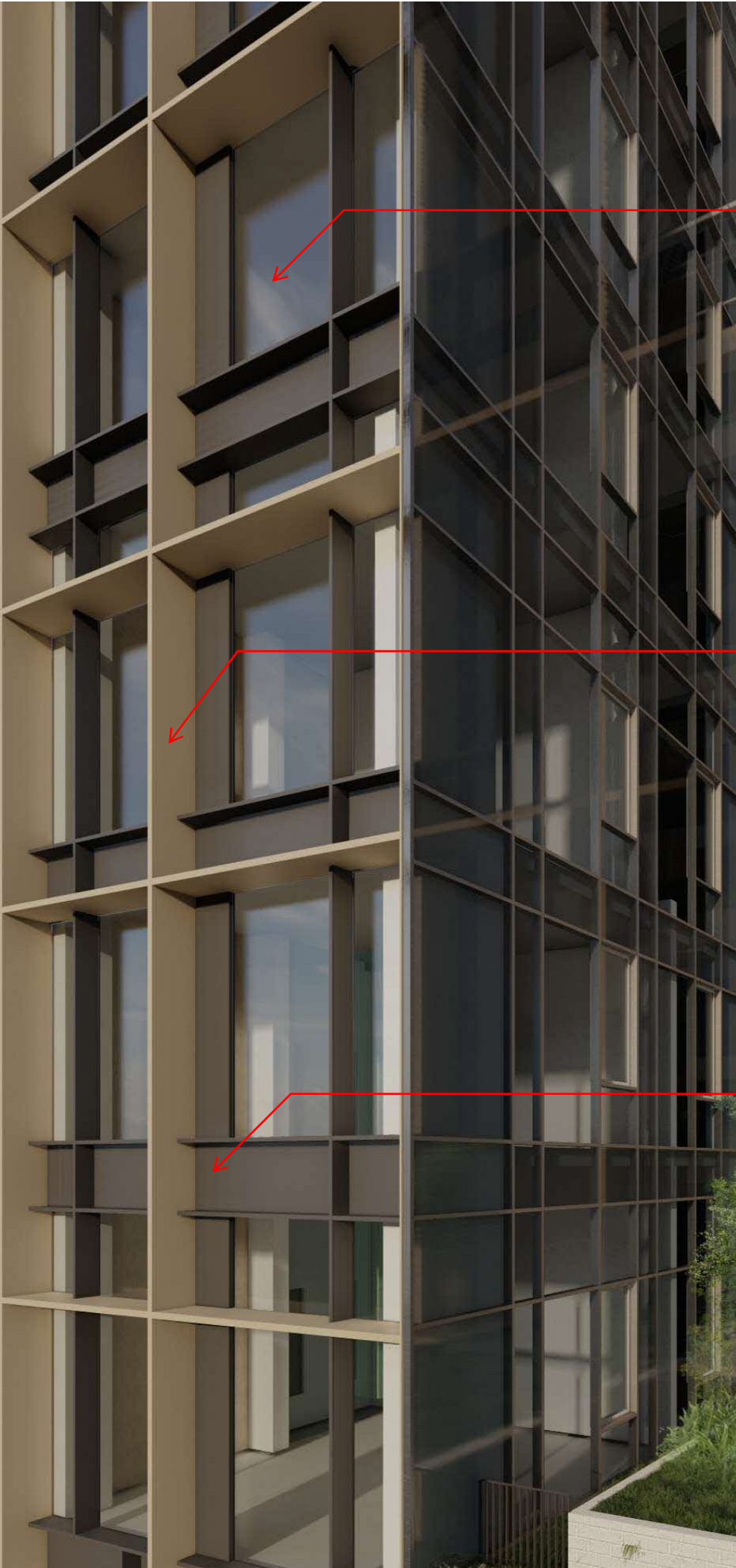
WOHA



VIEW OF THE COURTYARD

WOHA





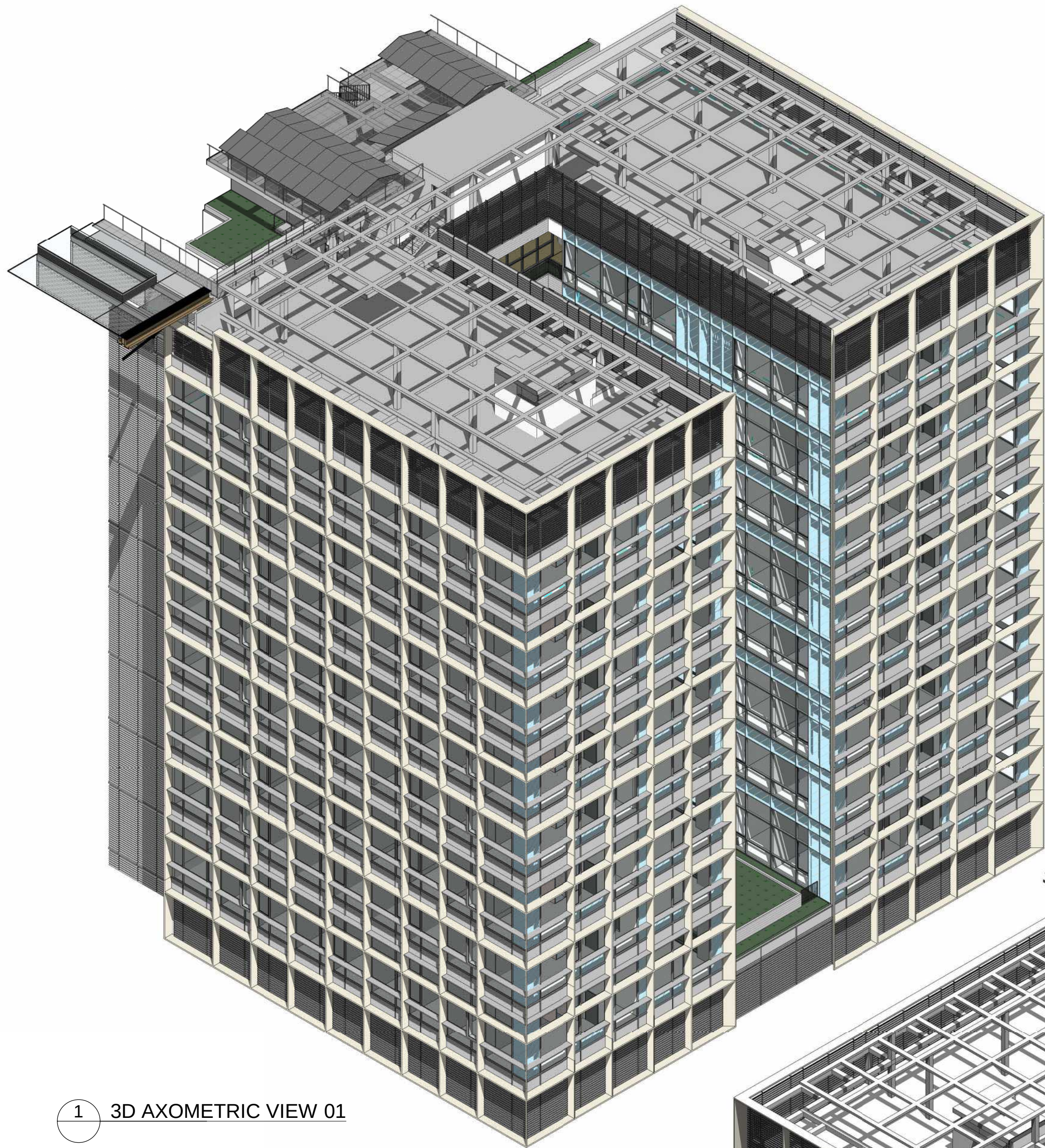
DOUBLE GLAZED GLASS



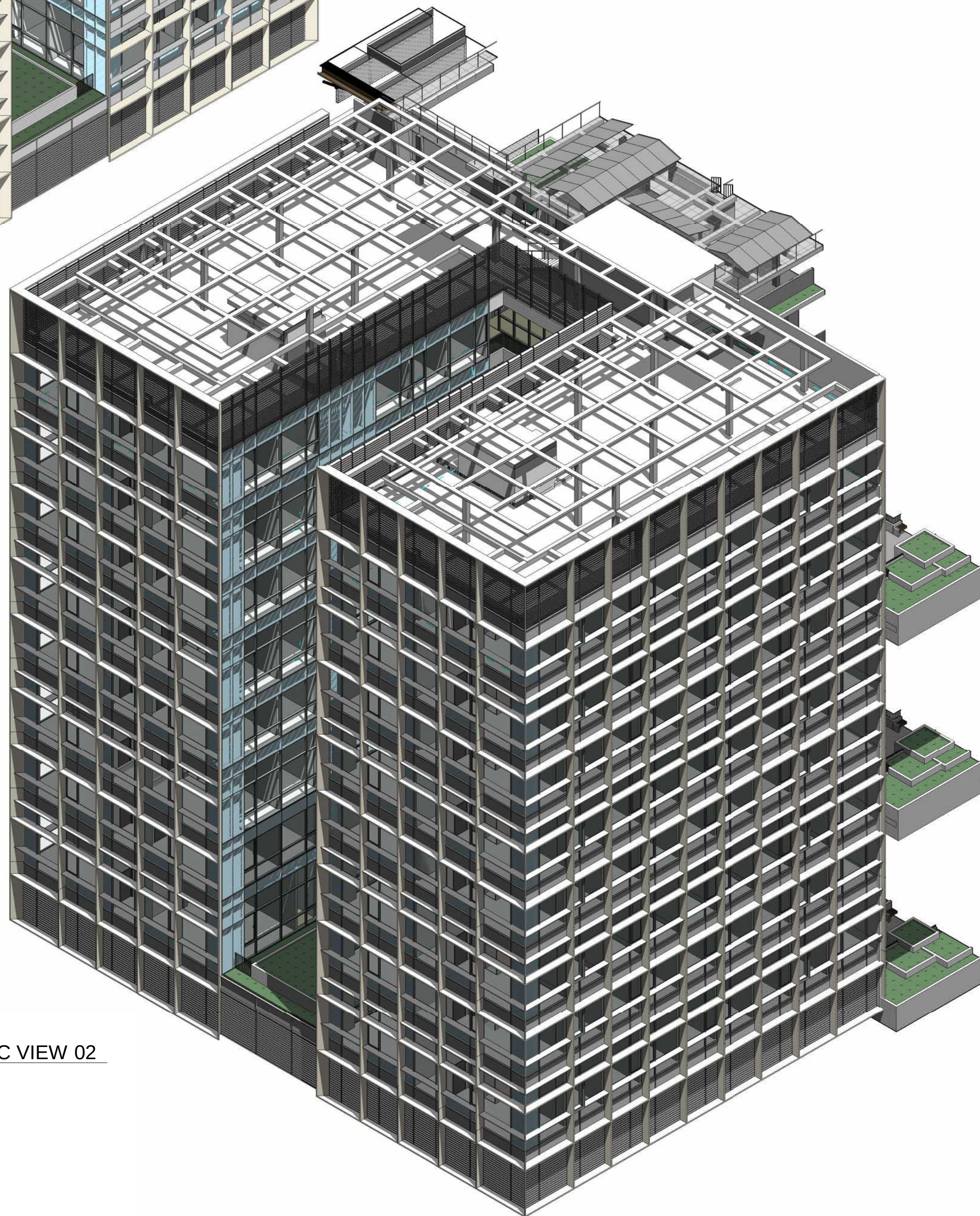
POWDER COATED
ALUMINIUM FIN
RAL 1036



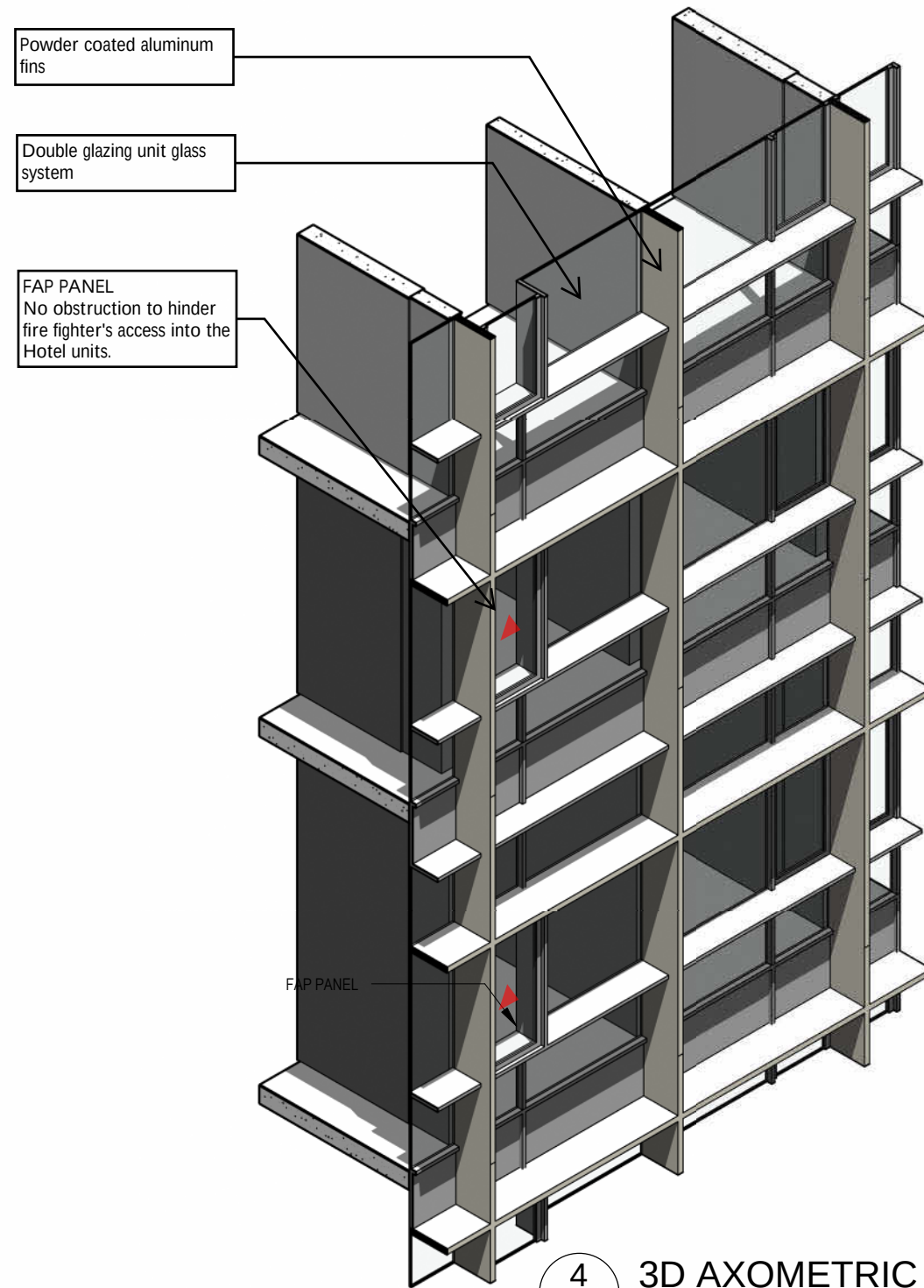
POWDER COATED
ALUMINIUM FIN AND
SPANDREL WITH
INSULATION
RAL9017



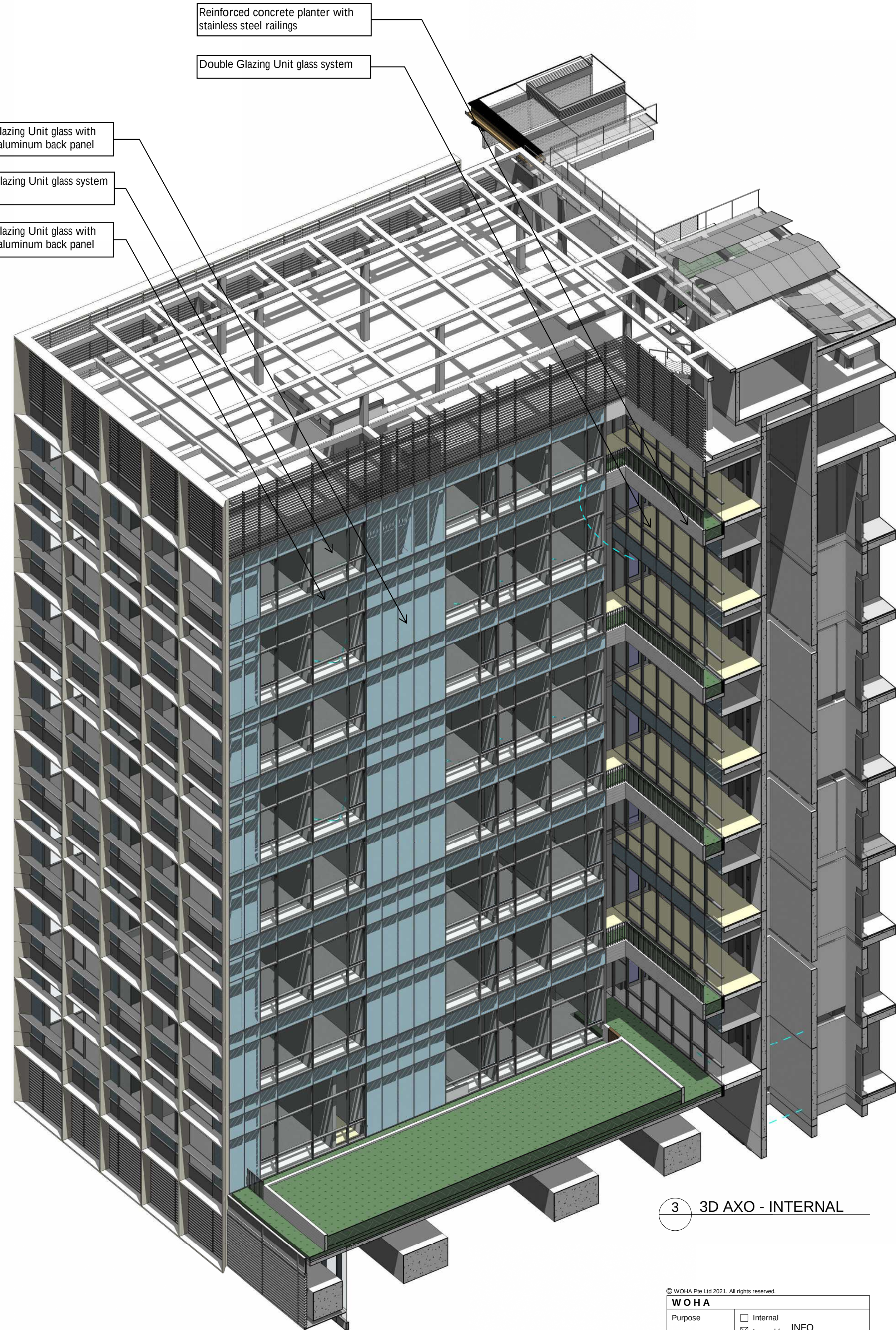
1 3D AXOMETRIC VIEW 01



2 3D AXOMETRIC VIEW 02



4 3D AXOMETRIC VIEW - FAP



3 3D AXO - INTERNAL

Powder coated aluminum
fins

Double glazing unit glass
system

FAP PANEL
No obstruction to hinder
fire fighter's access into the
Hotel units.

Reinforced concrete planter with
stainless steel railings

Double Glazing Unit glass system

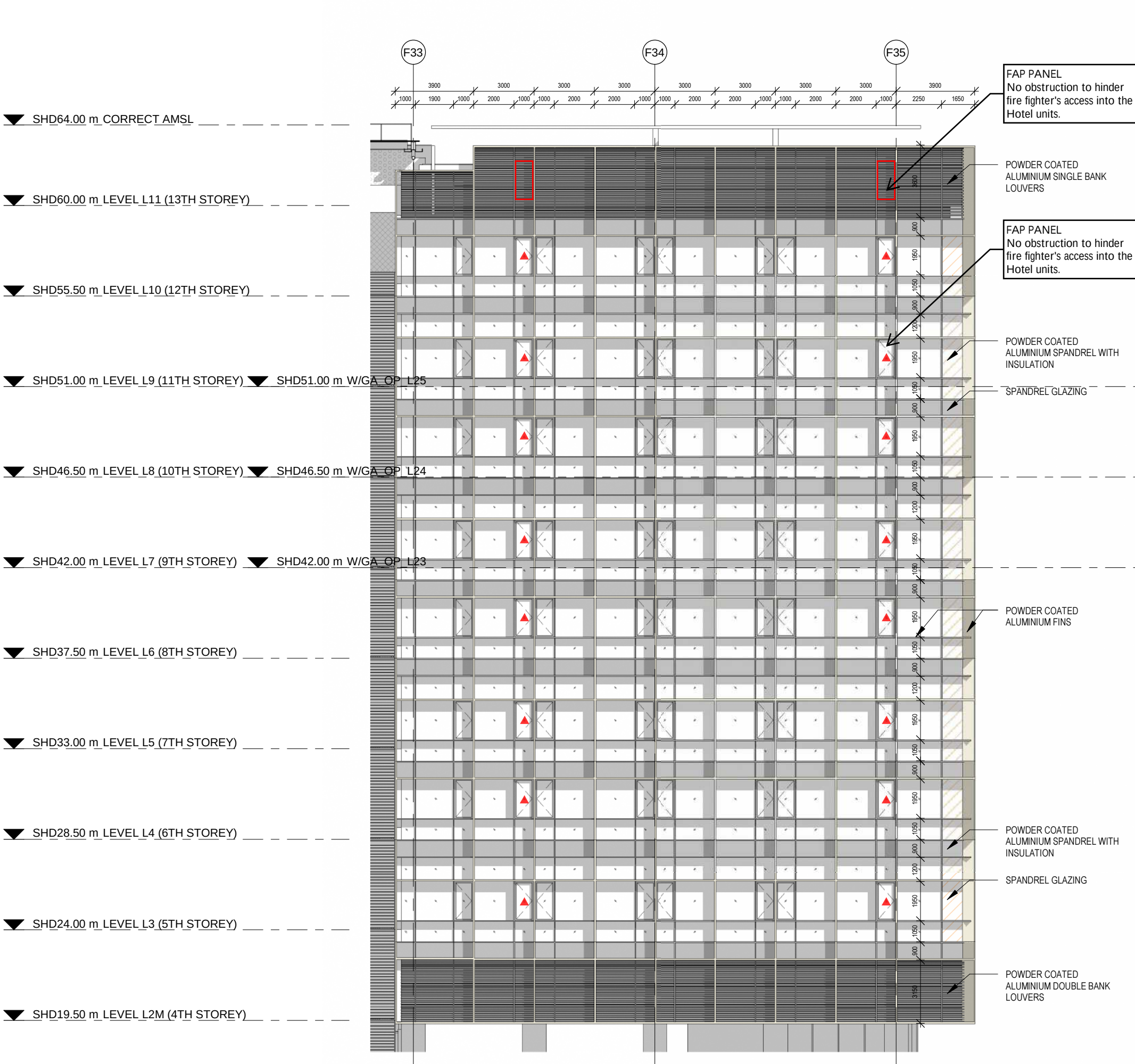
Double Glazing Unit glass with
insulated aluminum back panel

Double Glazing Unit glass system

Double Glazing Unit glass with
insulated aluminum back panel

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WOHA	
Purpose	☐ Internal
Issued for	INFO
SK Number	C-SK 0457-1
Project No.	230_PDD
Date	03/04/23
Initial	SWY/AR



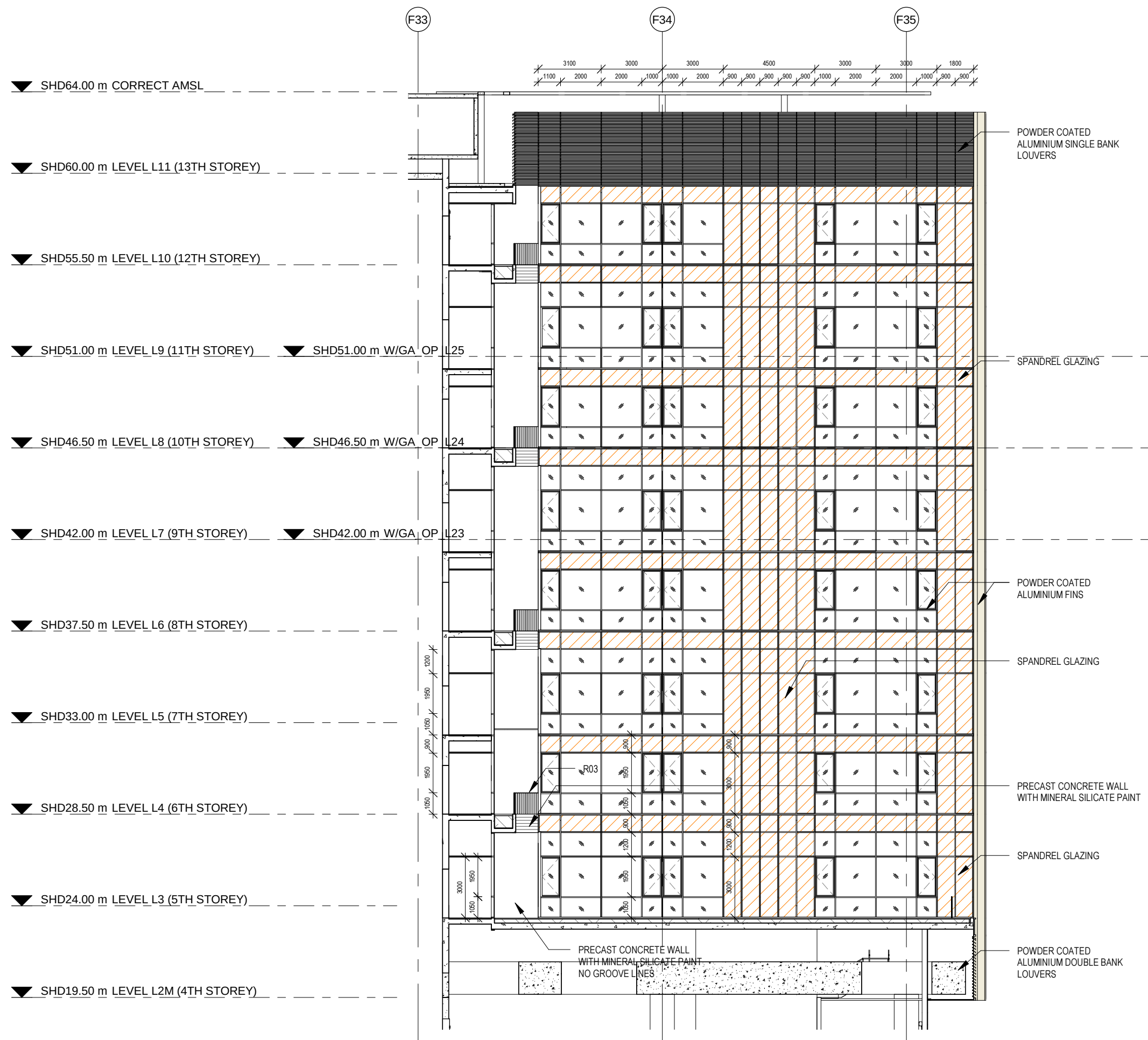
2 SOUTH ELEVATION
1 : 200



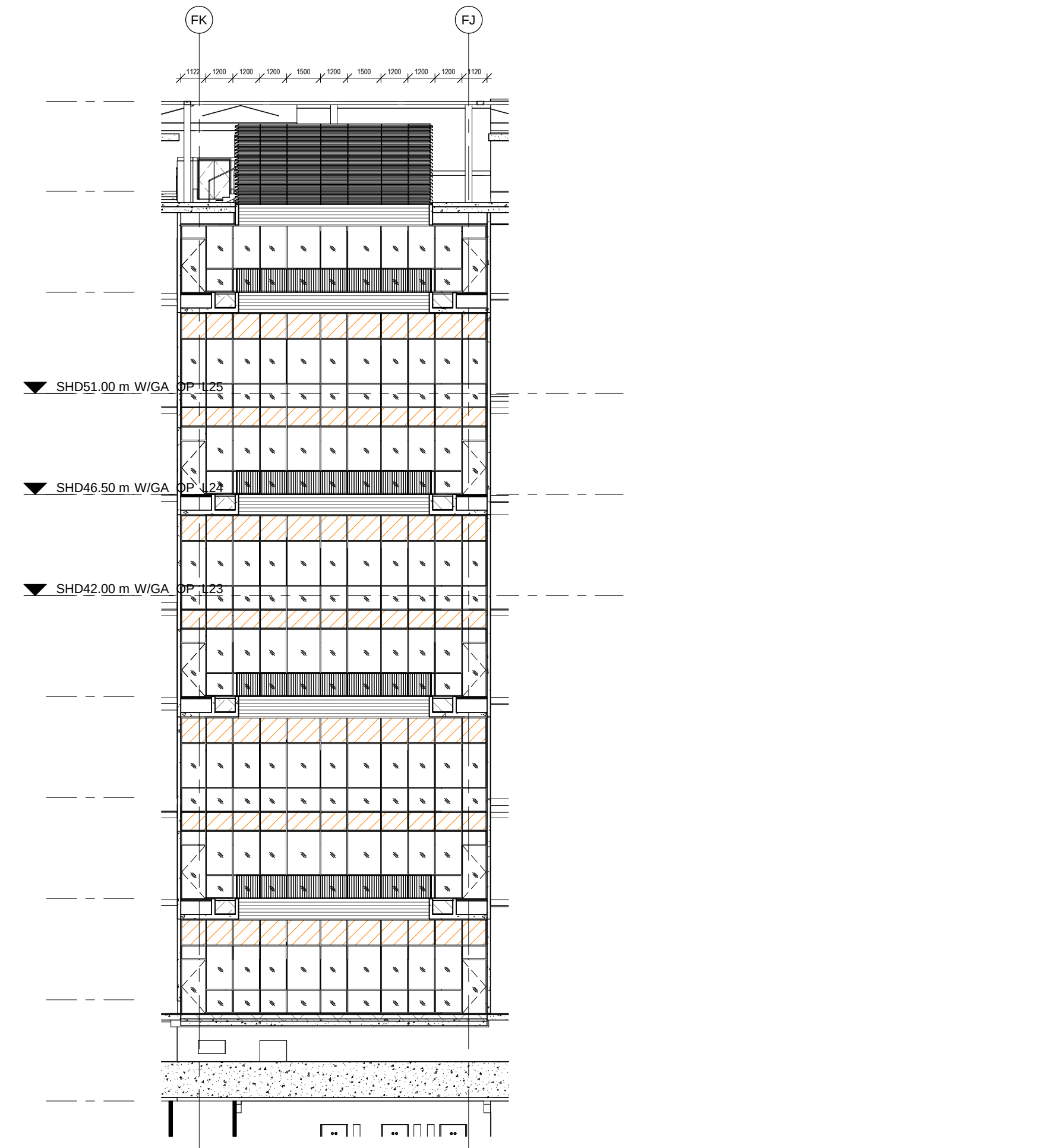
3 EAST ELEVATION
1 : 200



1 NORTH ELEVATION
1 : 200



4 INTERNAL ELEVATION
1 : 200



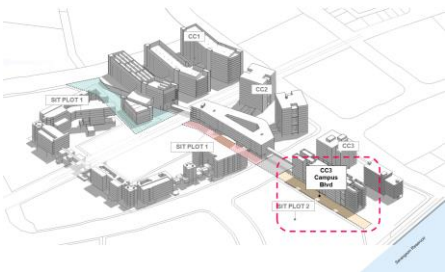
5 LOBBY FACADE ELEVATION
1 : 200

NOTE:
▲ Fire Access Panel for fire fighting access into the Hotel units.
There shall be no obstruction at the panel to hinder fire fighter's access into the internal space.

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WOHA			
Purpose	☐ Internal	INFO	
	☒ Issued for	SK Number	C-SK 0457-2
Project No.	230_PDD		
Date	03/04/23		
Initial	SWY/YAR		

INTEGRATED LANDSCAPE STRATEGIES

CC3 Overall Section



SIT Plot 2

Tower 10

Tower 9
(Phase 2)



CC3 Tower 10 Façade Planting



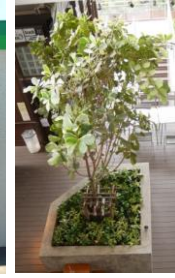
CC3 Tower 10 Façade Planting Intent



Agathis borneensis



Ficus benamina



Ficus lyrata
variegated



Shorea leprosula



Melastoma malabathricum



Plumbago auriculata



Drynaria quercifolia



Adiantum latifolium



Xiphidium caeruleum



Zephyranthes candida



Vernonia elliptica



Phyllanthus myrtifolius



Philodendron scandens



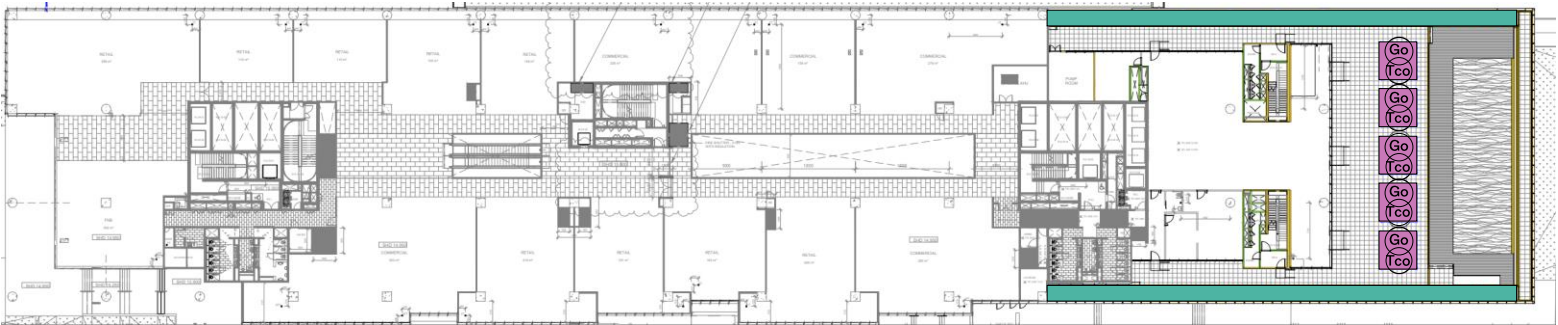
Tristellateia australasiae



Piper sarmentosum

CC3 TOWER 10 PLANTING PALETTE

LOCATION
- L2



GO



Guaiacum officinale

TCO



Tabernaemontana corymbosa

WP1_CC3



Neomarica longifolia



Breynia disticha
'Roseo-picta'



Adiantum latifolium



Pluchea indica



Piper sarmentosum



Plumbago auriculata

NP1



Adiantum latifolium



Tristellateia australasiae



Phyllanthus myrtifolius



Ophiopogon jaburan



Philodendron scandens



Drynaria quercifolia



Vernonia elliptica



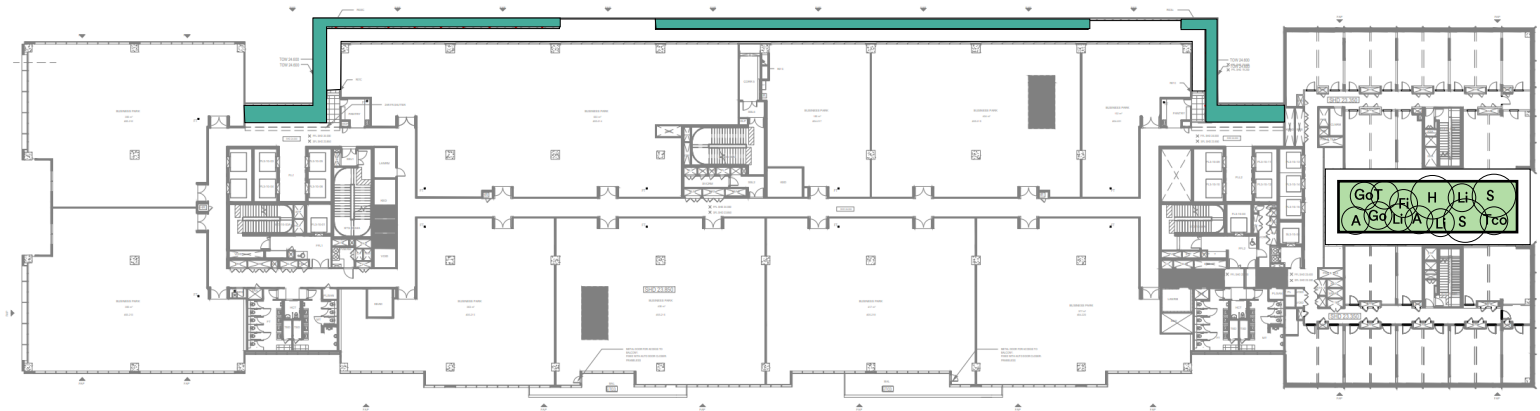
Xiphidium caeruleum



Zephyranthes candida

CC3 TOWER 10 PLANTING PALETTE

LOCATION
- L3



NP1



Adiantum latifolium



Tristellateia australasiae



Phyllanthus myrtifolius



Xiphidium caeruleum



Ophiopogon jaburan



Philodendron scandens



Drynaria quercifolia



Vernonia elliptica



Zephyranthes candida

EP1_CC3



Colubrina asiatica



Dillenia suffruticosa



Melastoma malabathricum



Pluchea indica



Pandanus amaryllifolius



Piper sarmentosum



Plumbago auriculata



Neomarica longifolia



Ficus lyrata variegated



Guaiacum officinale



Heteropanax fragrans



Shorea leprosula



Tabernaemontana corymbosa



Lawsonia inermis



Agathis borneensis

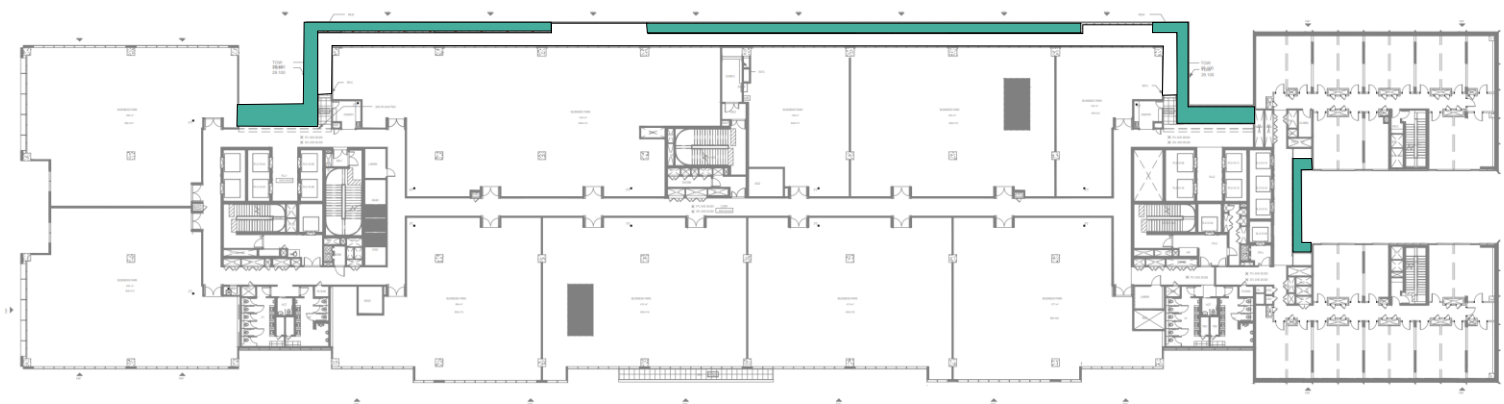


Ficus benjamina

CC3 TOWER 10 PLANTING PALETTE

LOCATION

- L4, L6, L7, L9



NP1 



Adiantum latifolium



Tristellateia australasiae



Phyllanthus myrtifolius



Xiphidium caeruleum



Ophiopogon jaburan



Philodendron scandens



Drynaria quercifolia



Vernonia elliptica



Zephyranthes candida

HOTEL FACADE LIGHTING

FAÇADE LIGHTING STRATEGY:

Crown: Feature lighting to distinguish the building from a distance

Architectural features: Focus the lighting to enhance architectural elements

Street Level: Enhance street level appeal and clearly enhance public building entrances

FAÇADE LIGHTING GOALS:

Achieve:

- Comply with Master Plan Guidelines
- Maximize architectural integration of lighting/ Minimize visual lighting points
- Validate the architecture
- Create Identity
- Enhance street level appeal
- Overall cohesive lighting design - continuity between public area lighting and façade lighting

Avoid:

- Glare and discomfort
- Bland/ Uniform lighting
- Overbearing/ Overwhelming light



LEGEND:

Along Punggolway		<100lm/sqm
Along Punggol Waterway		<100lm/sqm
Along New Punggol Road		<50lm/sqm
Along Campus Boulevard		<50lm/sqm
Along Market Village		<10lm/sqm

*No façade lighting towards campus heart

8.3.5 ALONG PUNGGOL WAY

8.3.6 ALONG MARKET VILLAGE

8.3.3 ALONG CAMPUS BOULEVARD

The Campus Boulevard will be lined with buildings from both sides and be largely sheltered, so it will be like a semi-interior space. The façades and street lighting will all need to be coordinated to bring forward a well-defined and well lit space, similar to some mall developments with a central walkway largely exposed to daylight such as China Square Central and Bugis Junction.

The Punggol Way at the north of the development will be zoned as a green corridor leading to Coney Island, with part of the Sentul Crescent Extension on the west also zoned as a green corridor, which will be lined with trees.

Along the road will be buildings of highest massing for the business park in the development so iconic business park frontages shall be well lit at night.

The trees along the road can also be lit at night for 1-2 hours a night to emphasize the lush greenery of Singapore in this region.

The façades of the buildings facing market village act as a backdrop to the smaller establishments along the waterfront for F&B, convenience stores and retail shops. They shall be likewise encouraged to have complementary coloured lighting or coloured cladding materials for their façades in the same language as the other areas in the Market Village.

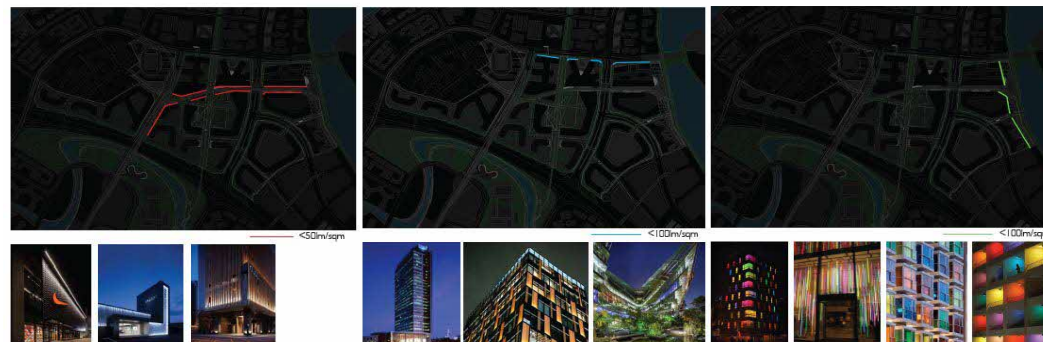


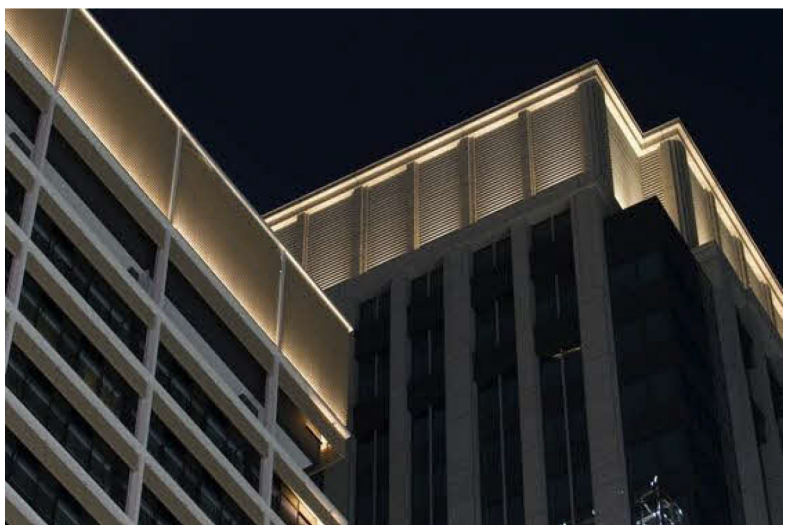
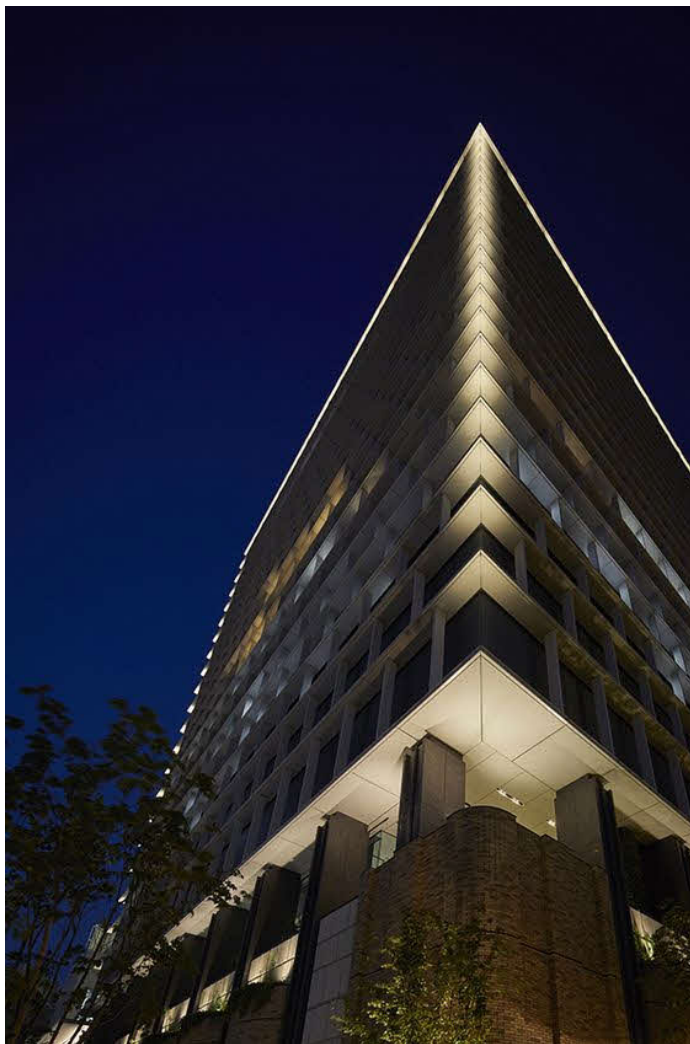
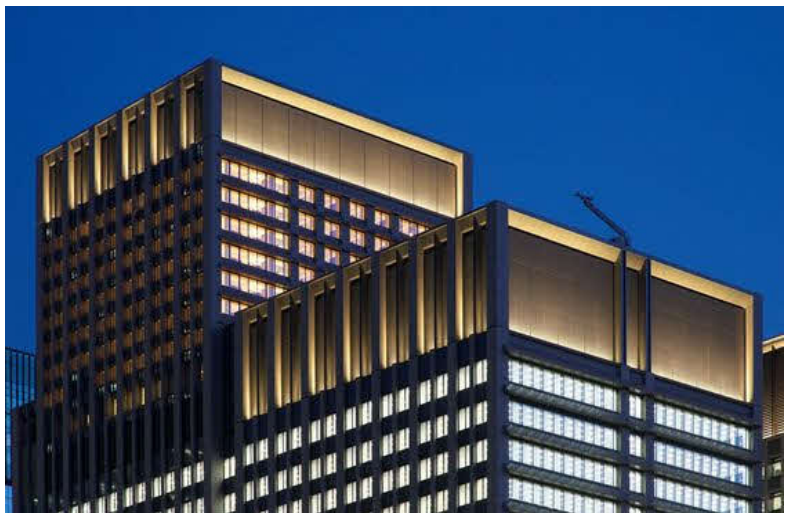
FIG 8.33 FAÇADE LIGHTING ALONG CAMPUS BOULEVARD

FIG 8.35 FAÇADE LIGHTING ALONG PUNGGOL WAY

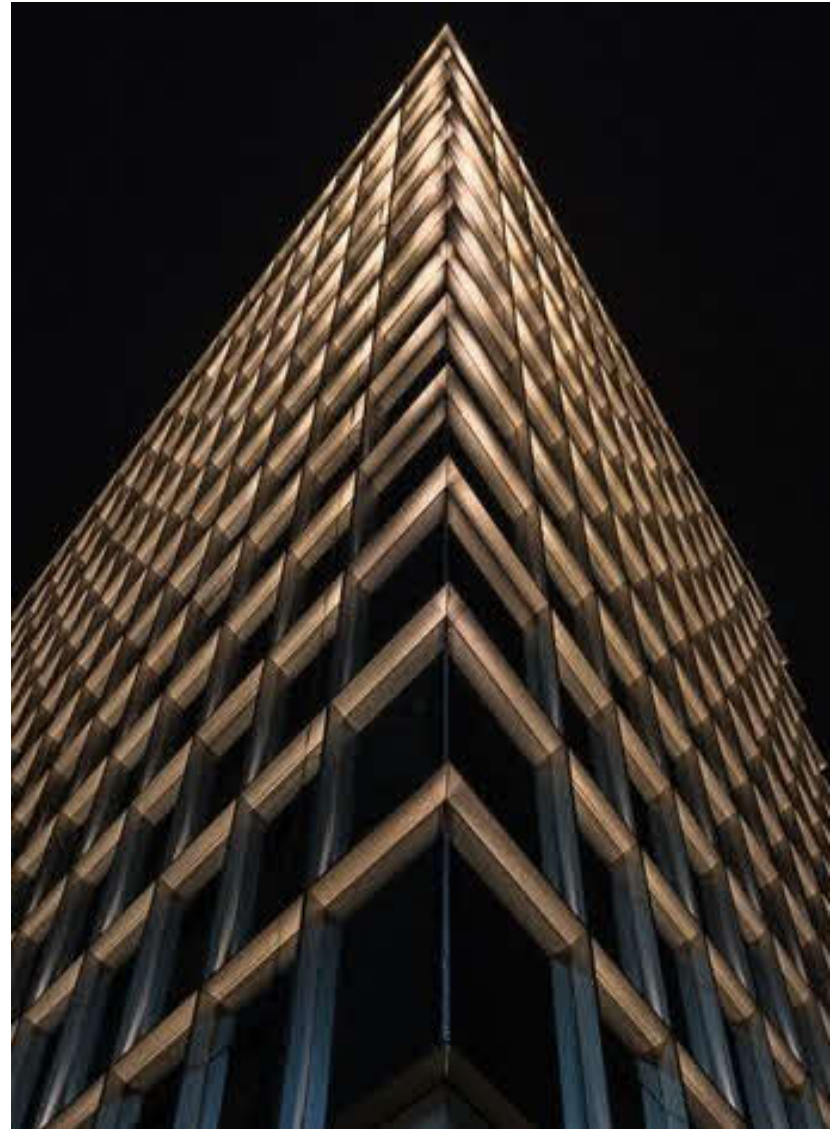
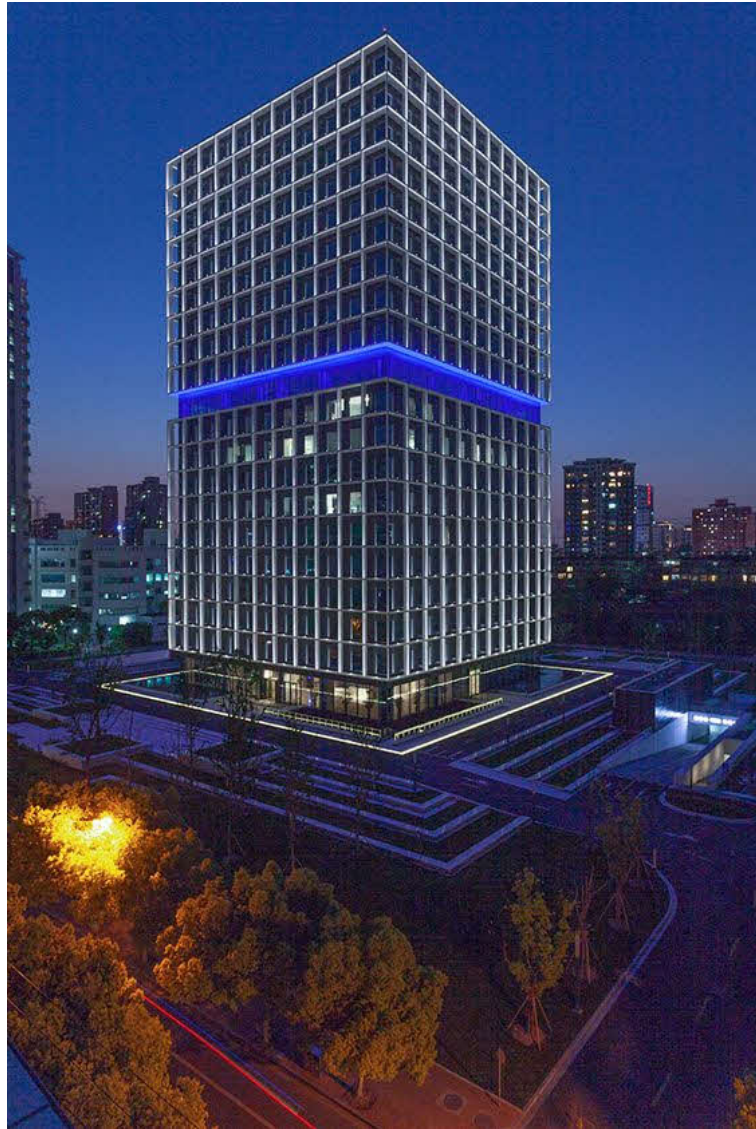
FIG 8.36 FAÇADE LIGHTING ALONG MARKET VILLAGE

PARAMETER	REQUIREMENT		
	Along Punggol Way	Along New Punggol Road	Along Punggol North Link
Landscape Lighting	Selected trees should be uplit to enhance the green corridor	N.A.	No landscape lighting is required
Brightness (lux levels)	>10 lux	>10 lux	>10 lux
Colour Temperature	3000–6000K	3000–6000K	3000–6000K
Use of coloured and or animated lighting	Not permissible	Not permissible	Permissible for gateway buildings
Colour Rendering (Ra) & Colour Spectrum	Minimum 80 Ra		
Index of Protection (IP & IK)	> IP66		
Lighting controls (operation hours)	Façade lighting should be operated from 7-11pm on Fridays, Saturdays and Sundays, during public holidays and national /district-wide events or festivals and encouraged on all other days. Landscape lights should be operated during evening peak and turned off after hours.	Façade lighting should be operated from 7-11pm on Fridays, Saturdays and Sundays, during public holidays and national /district-wide events or festivals and encouraged on all other days. Landscape lights should be operated during evening peak and turned off after hours.	Façade lighting should be operated from 7-11pm on Fridays, Saturdays and Sundays, during public holidays and national /district-wide events or festivals and encouraged on all other days. Landscape lights should be operated during evening peak and turned off after hours.
Building façade lighting	<100 lm/sqm	<50 lm/sqm	<100 lm/sqm

Table 12: Detailed lighting guidelines for Façades

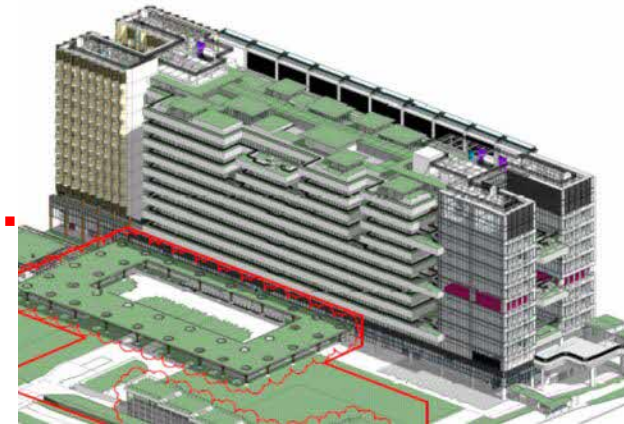
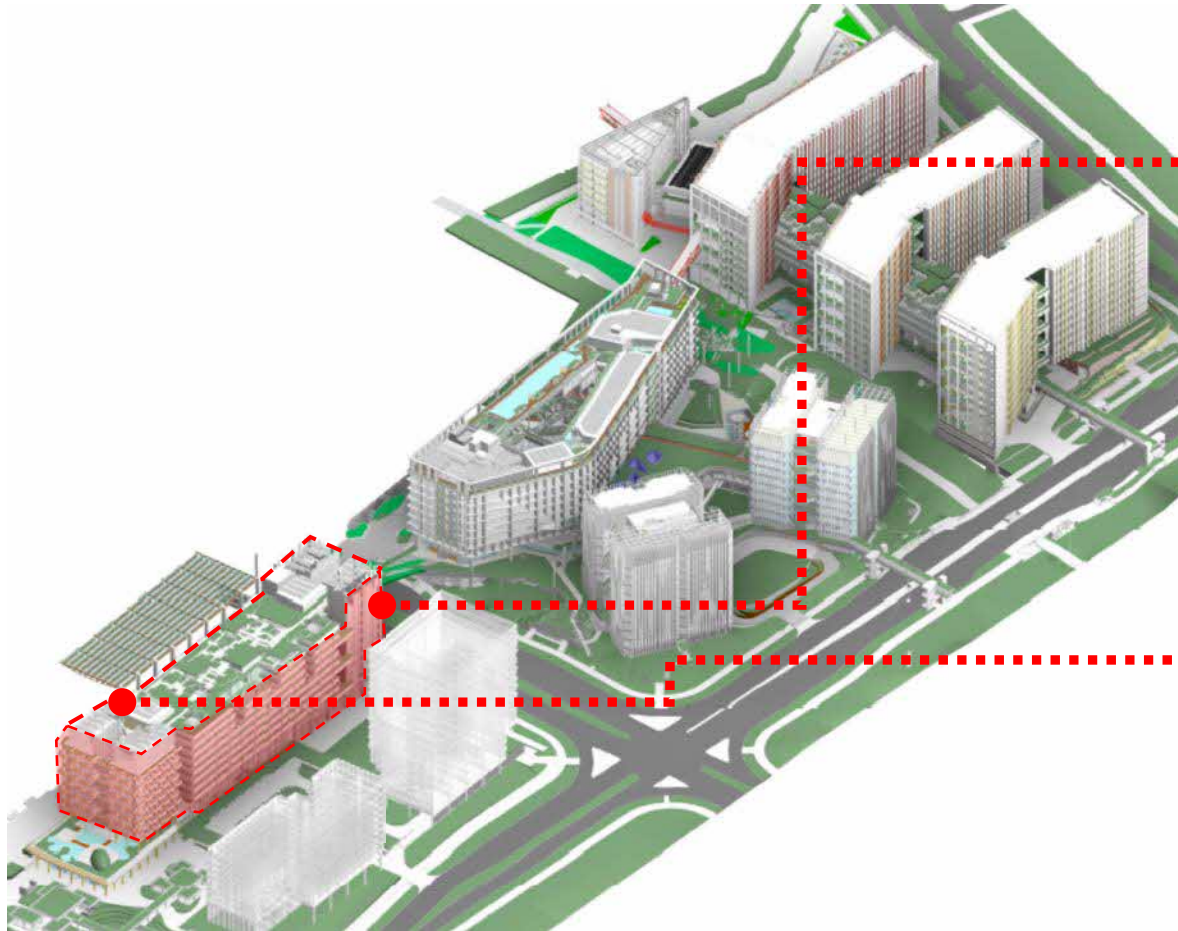


Mood Images – Hotel Facade



Mood Images – Hotel Façade

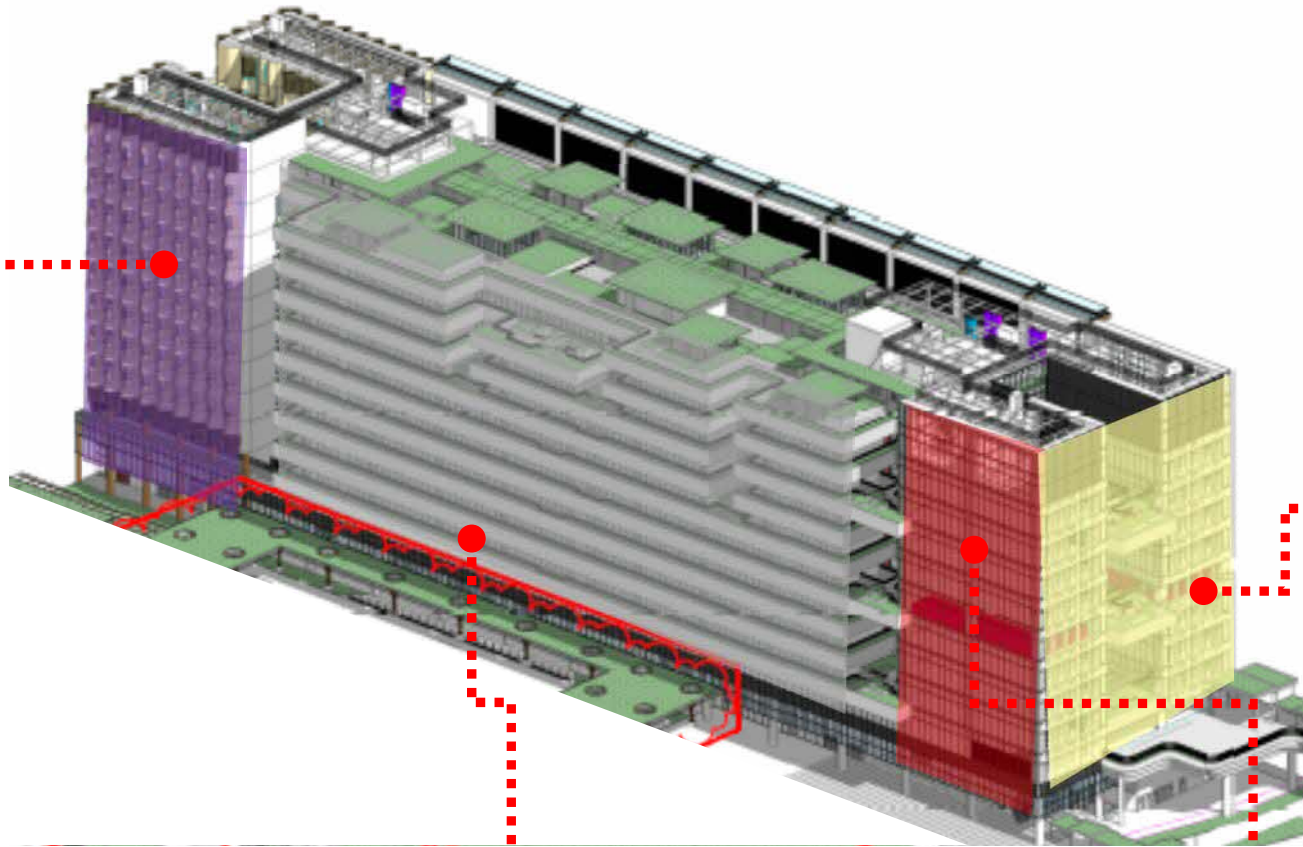
PUNGGOL DIGITAL DISTRICT - JTC
CC3 Façade Lighting Update – Hotel Side - July 2023



PUNGGOL WAY SIDE



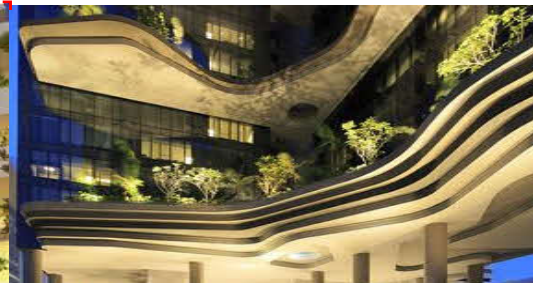
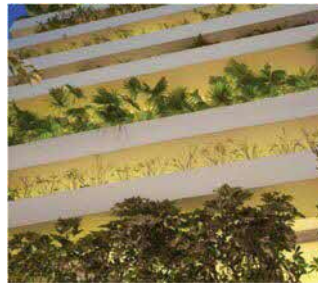
CAMPUS BOULEVARD SIDE



NEW HOTEL FAÇADE DESIGN
SEE UPCOMING SLIDES



INTERIOR LIGHT SPILL AND
TREE UPLIGHTING AT
TERRACES .



TREE UPLIGHTING AT TERRACES



INTERIOR LIGHT SPILL.

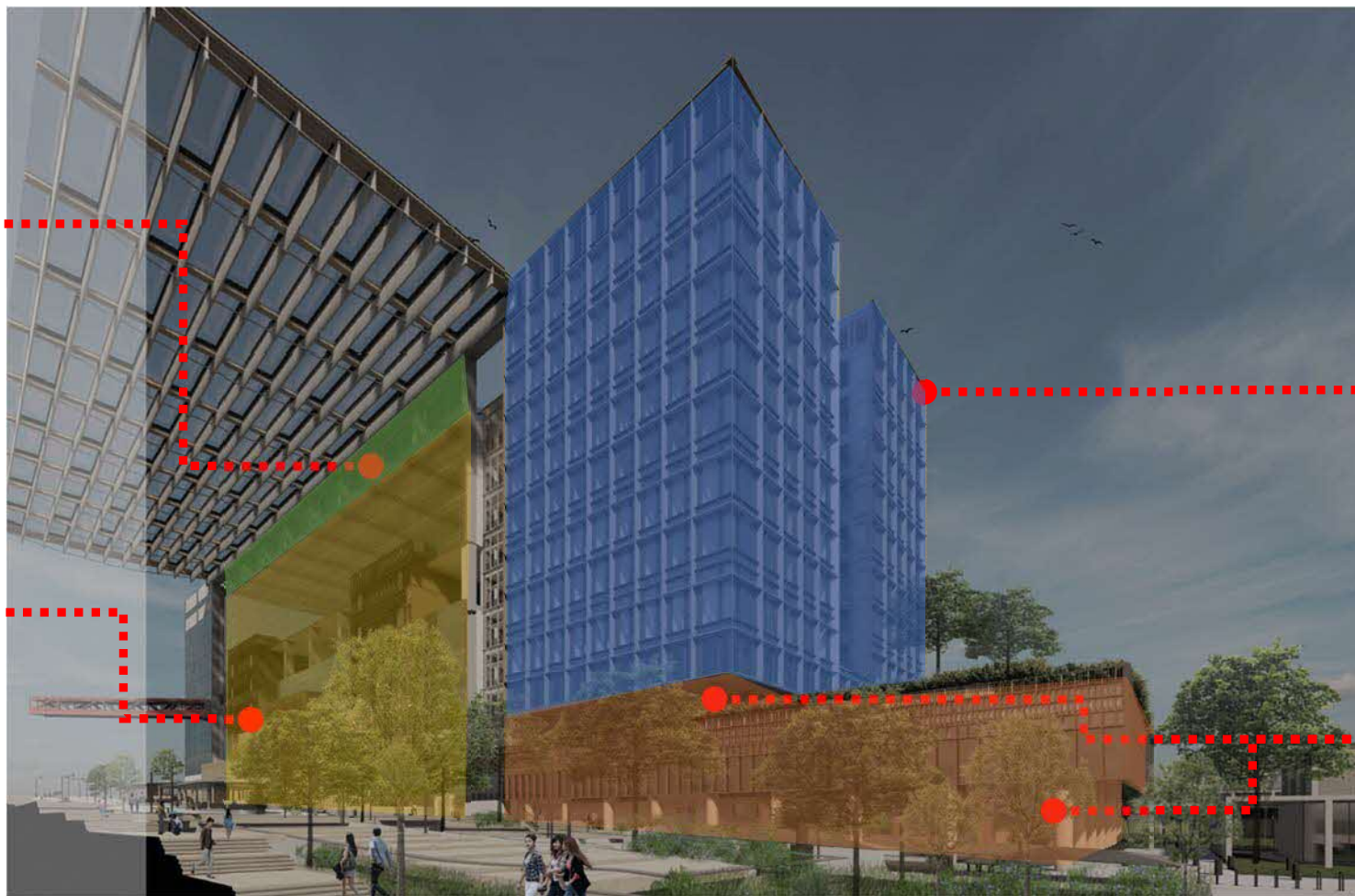
CC3 – Tower 10 Punggol Way Side



TREE UPLIGHTING AT CROWN



LINEAR UPLIGHT FOR
PROTRUDING WINDOWS



NEW HOTEL FAÇADE DESIGN
SEE UPCOMING SLIDES

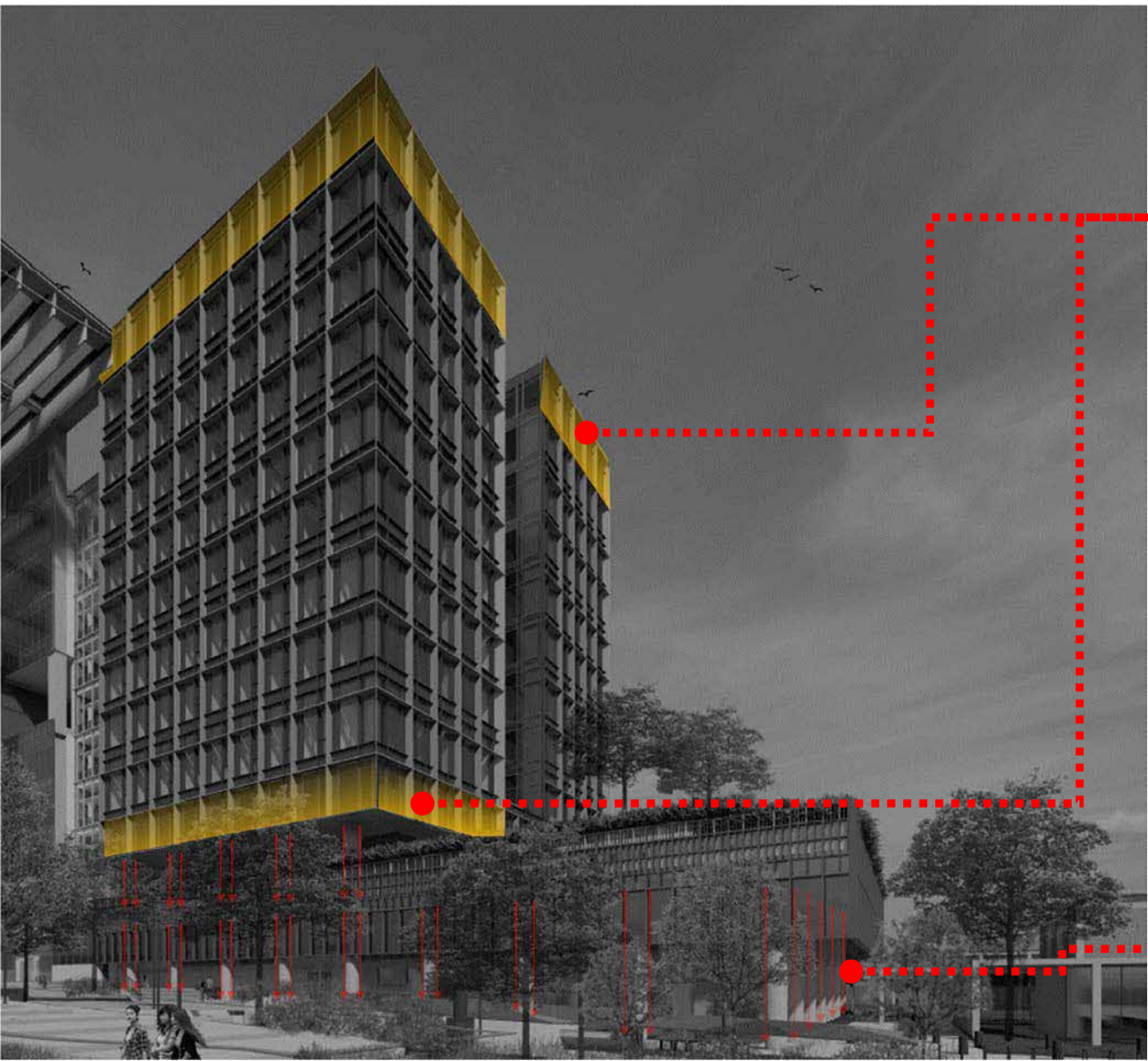


COLUMN DOWNLIGHTS

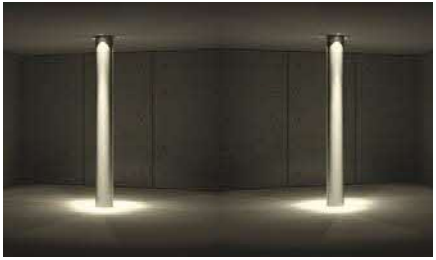




CC3 – Tower 10 Hotel Façade Lighting



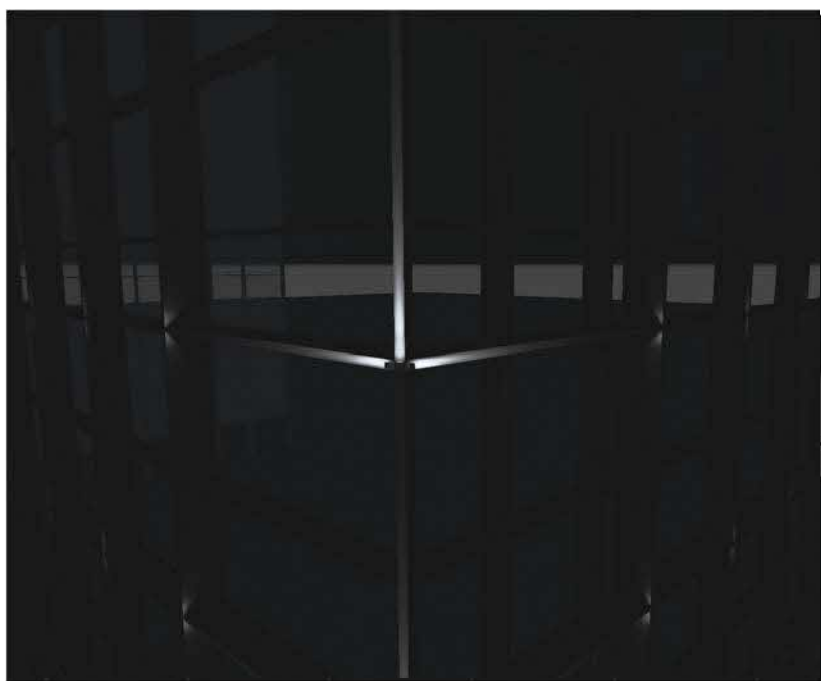
LINEAR UPLIGHT AT CROWN AND L2M



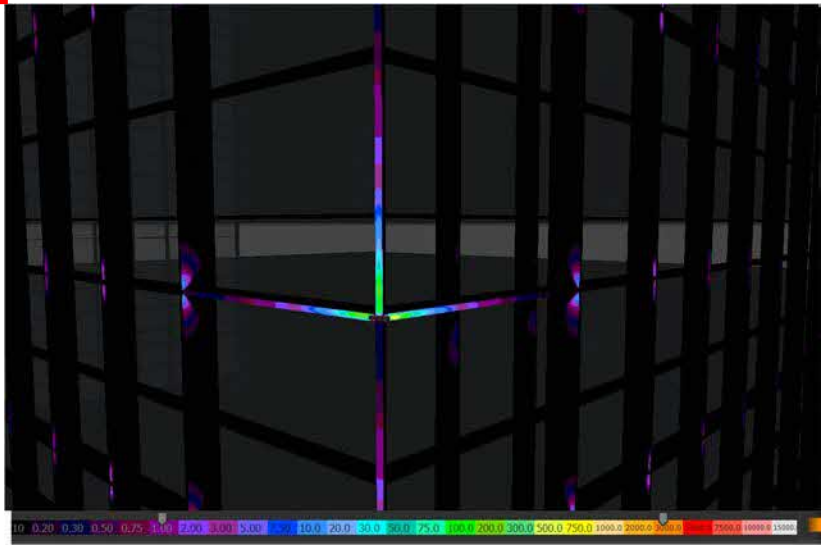
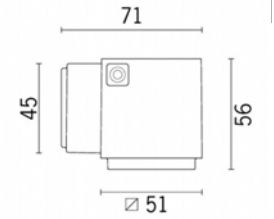
COLUMN DOWNLIGHTS



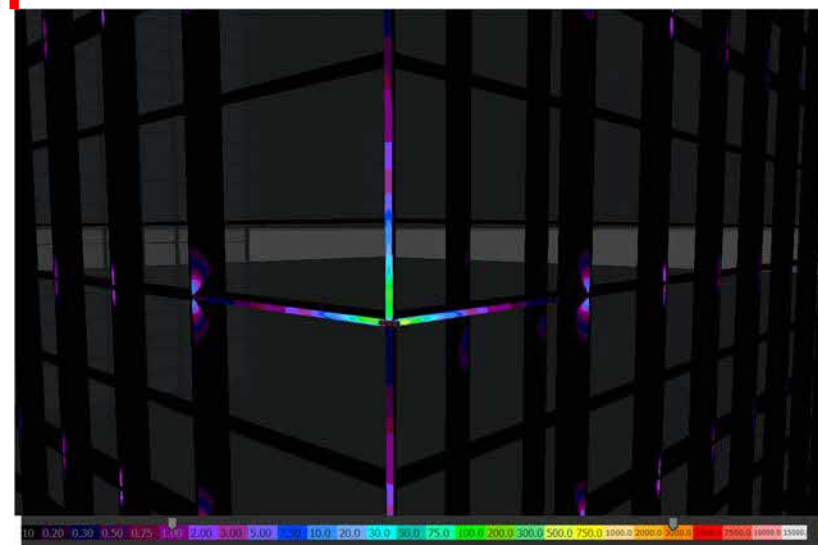
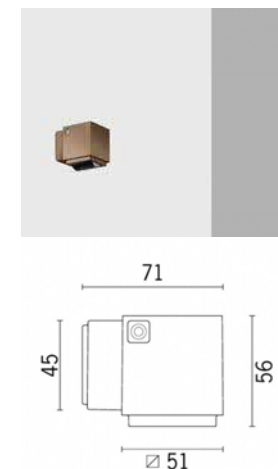
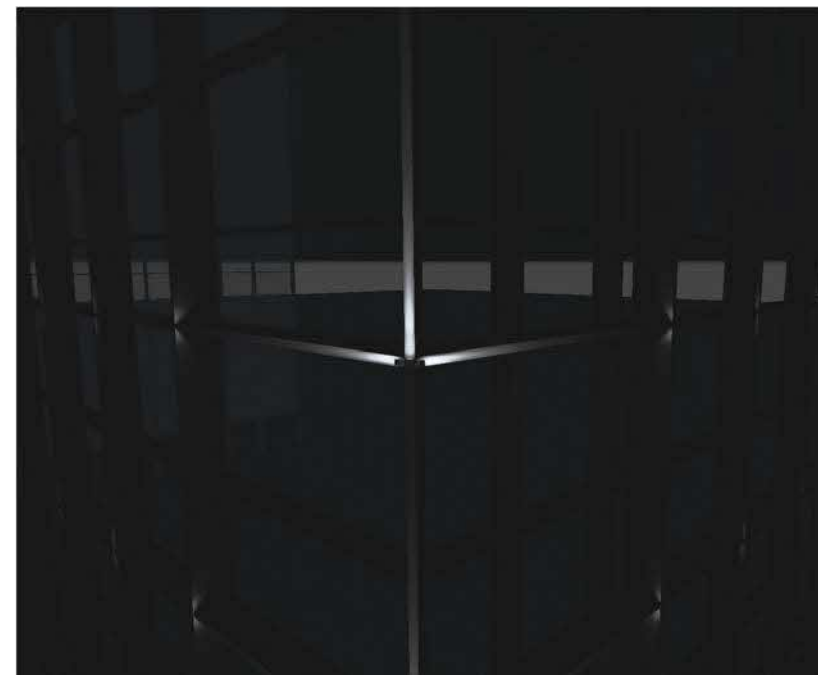
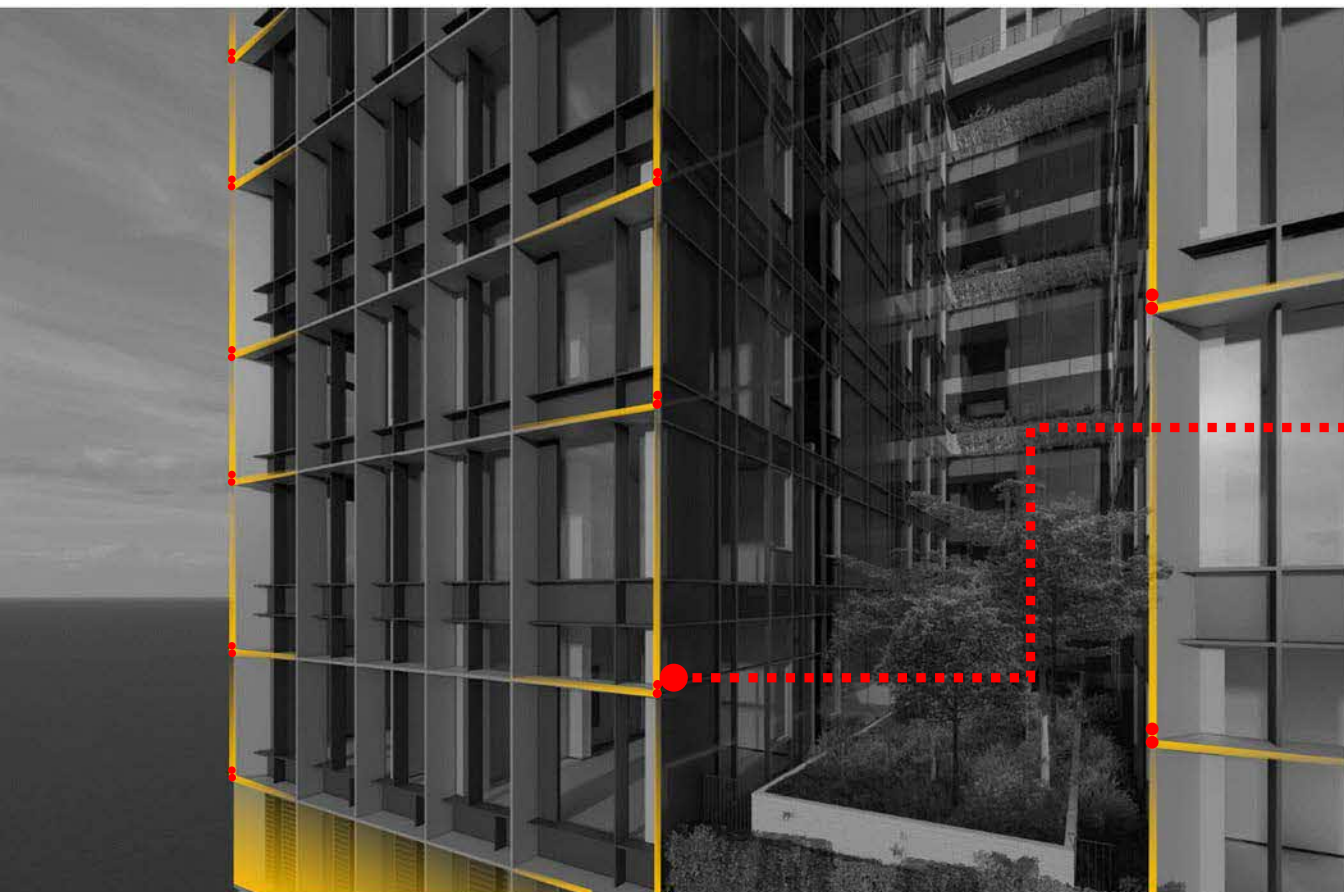
CC3 – Tower 10 Hotel Base Façade Lighting



iGuzzini iPro
Light blade optic



CC3 – Tower 10 Hotel Façade Lighting Option 2 – Narrow Beam Spotlights at corners to highlight frame



END