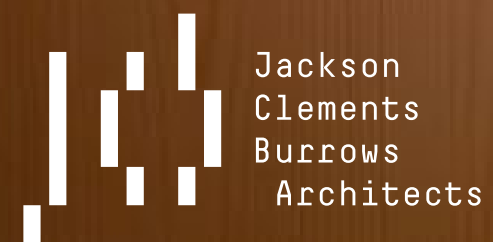


GILLIES HALL



MONASH
University

MULTIPLEX

in collaboration with

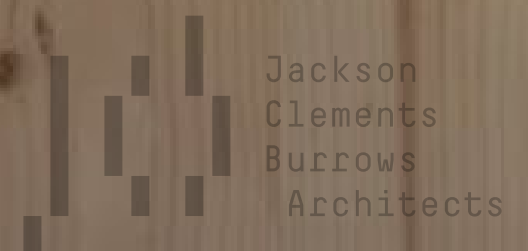
AECOM

grün

WT PARTNERSHIP

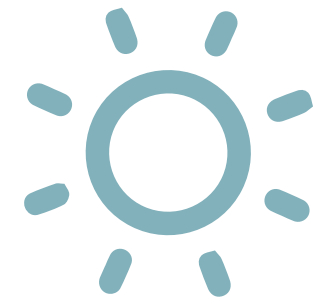
GLAS

atelier ten



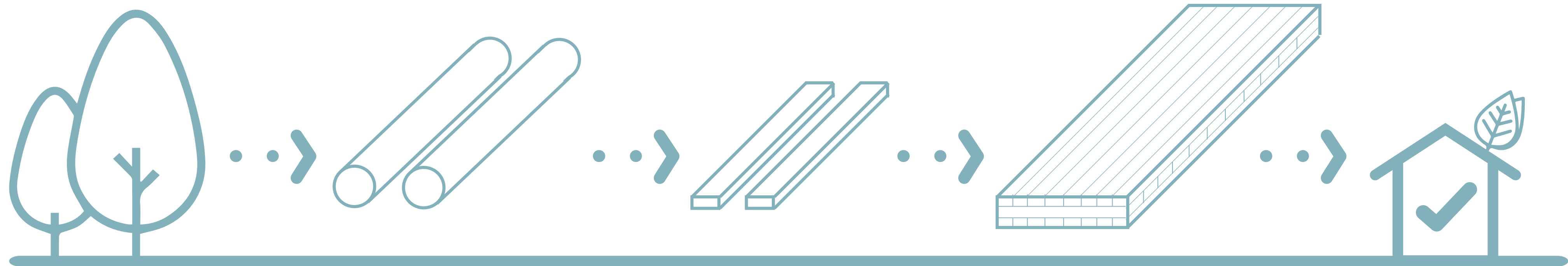
GILLIES HALL

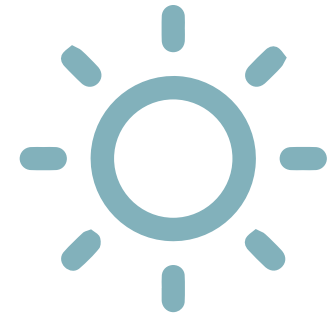




CROSS LAMINATED TIMBER (CLT)

INNOVATION THAT GROWS ON TREES



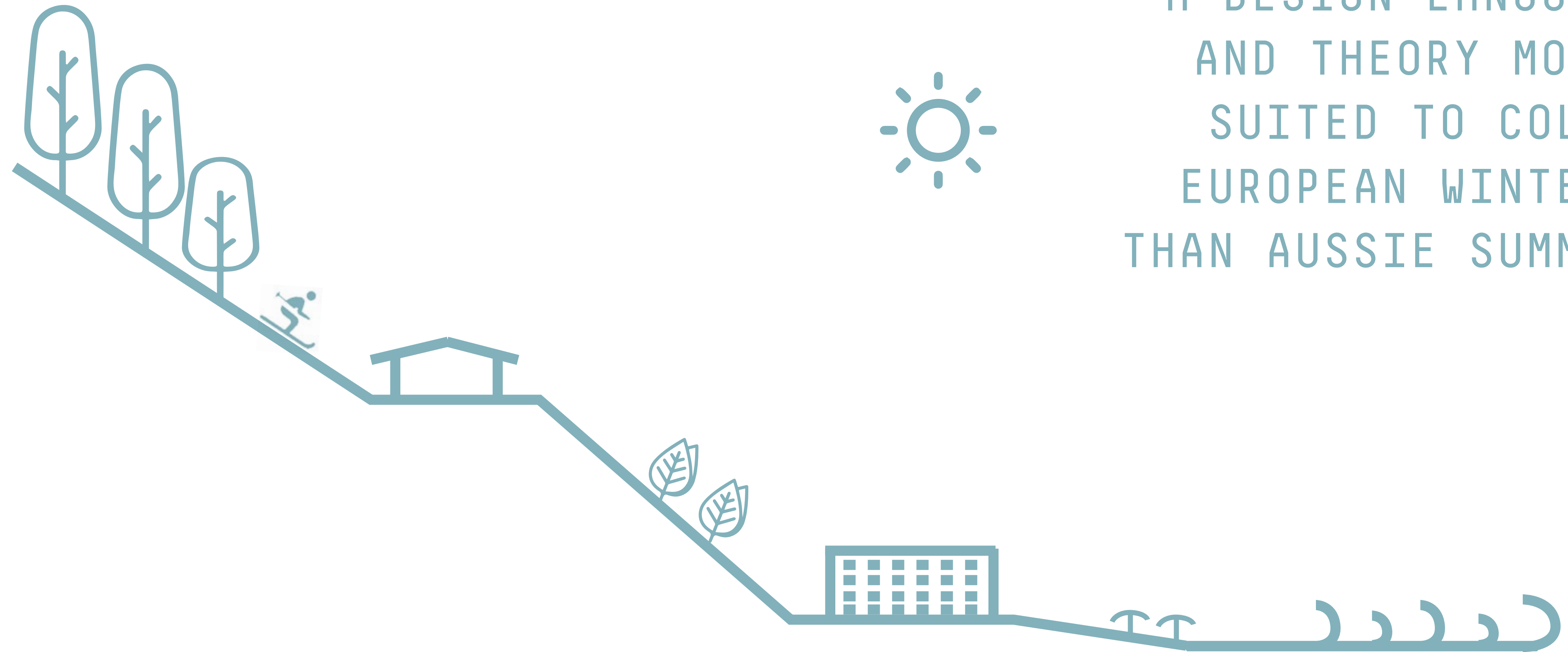


A DESIGN STANDARD FOR ULTRA
LOW-ENERGY BUILDINGS
THAT ARE GREAT TO BE IN



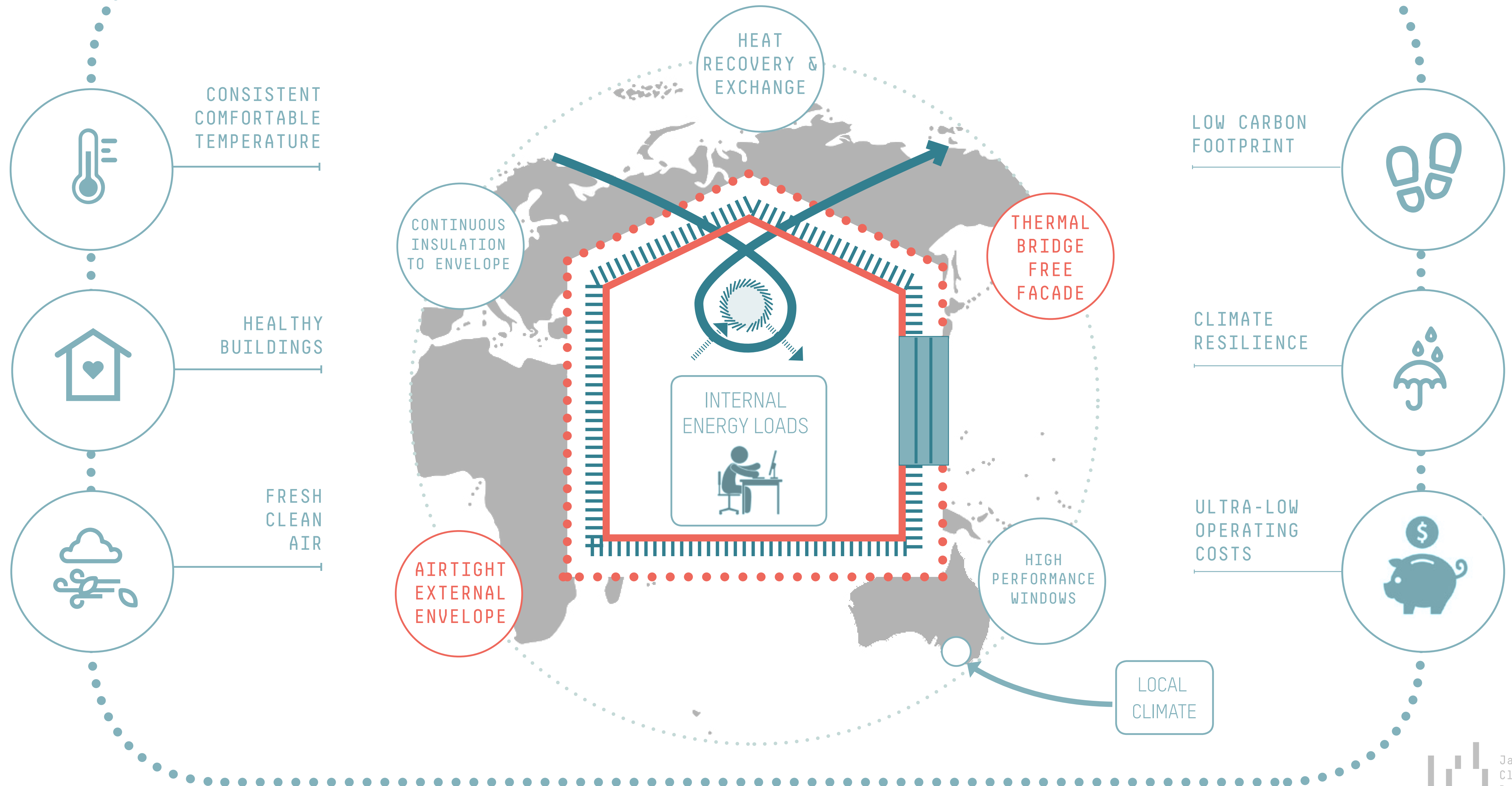
A TIMBER HOME

Ski chalet meets aussie student living?



A DESIGN LANGUAGE
AND THEORY MORE
SUITED TO COLD
EUROPEAN WINTERS
THAN AUSSIE SUMMERS?

PASSIVE HOUSE - THE THEORY OF EVERYTHING



GILLIES HALL Going Large with Passive House in a warm (and cold) Climates



GILLIES HALL Going Large with Passive House & Mass Timber



NOV 2017



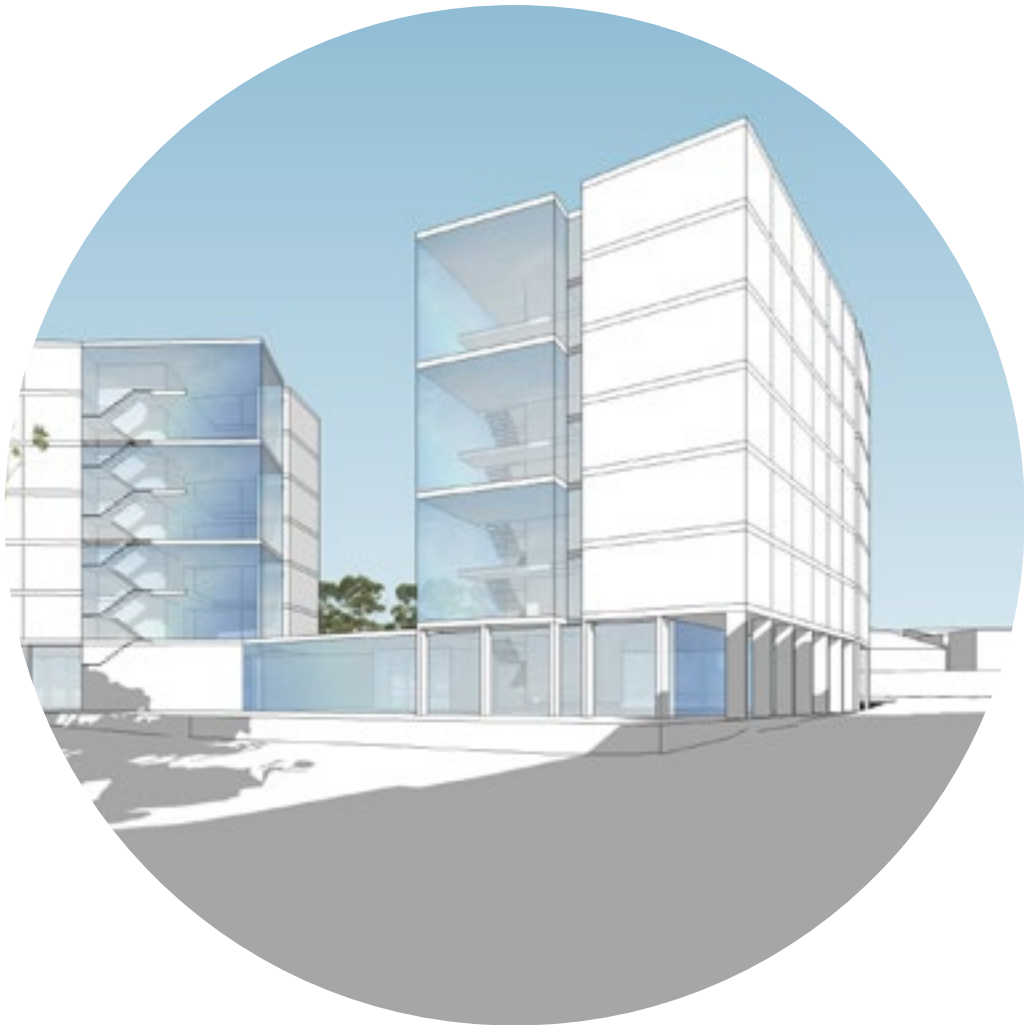
FEB 2018



JULY 2018



GILLIES HALL Going Large with Passive House in 19 months



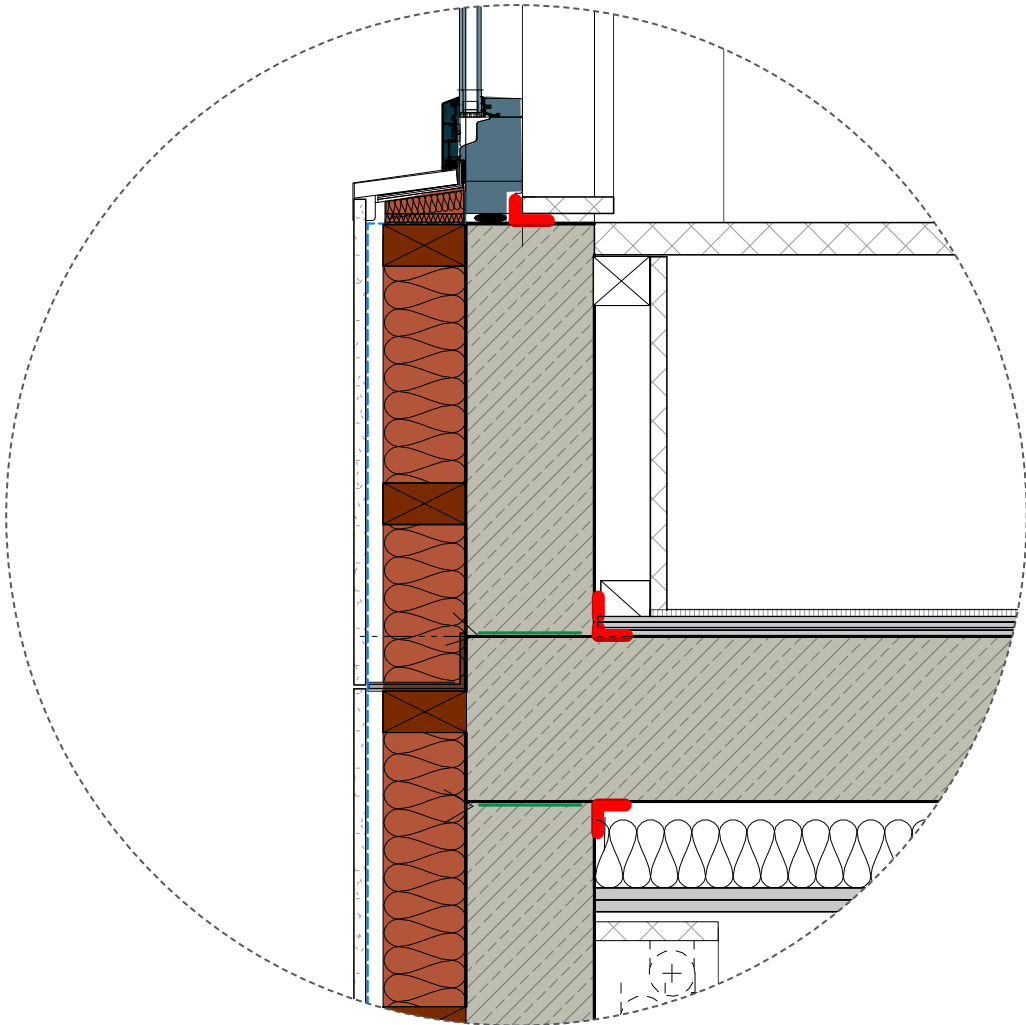
JULY 2017

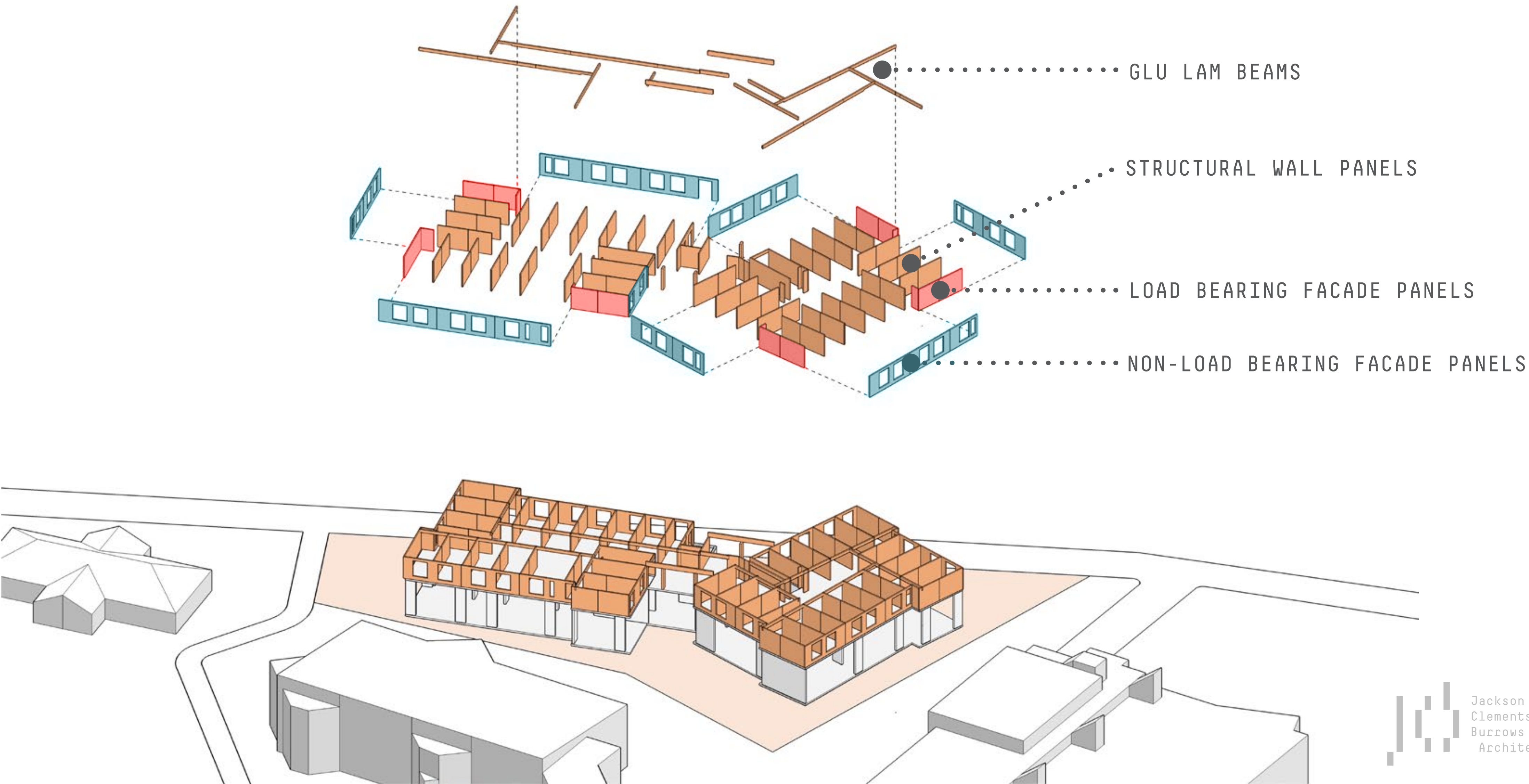
SEPT 2017

FEB 2018

MAR 2018

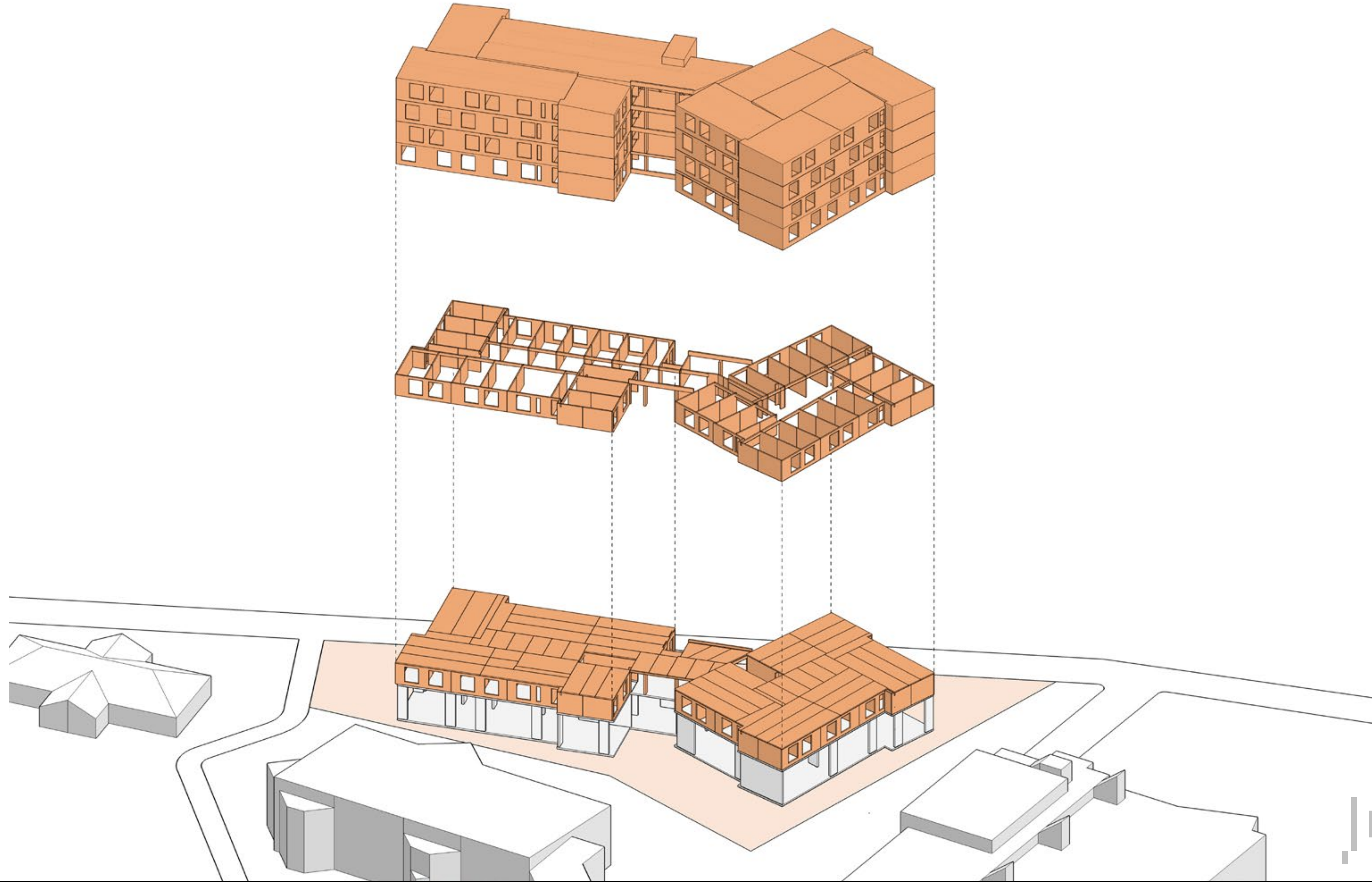
JAN 2019



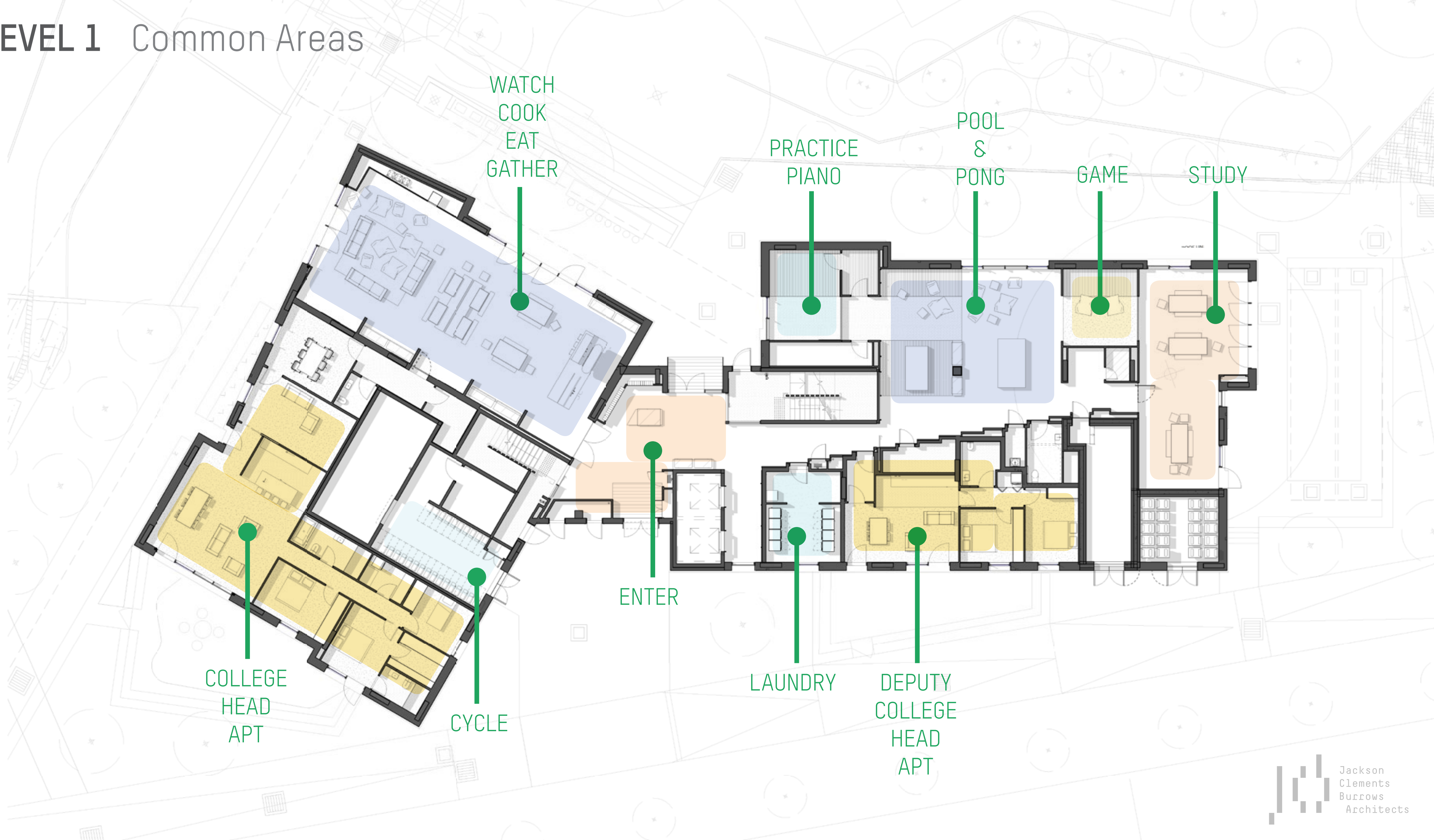


STRUCTURE

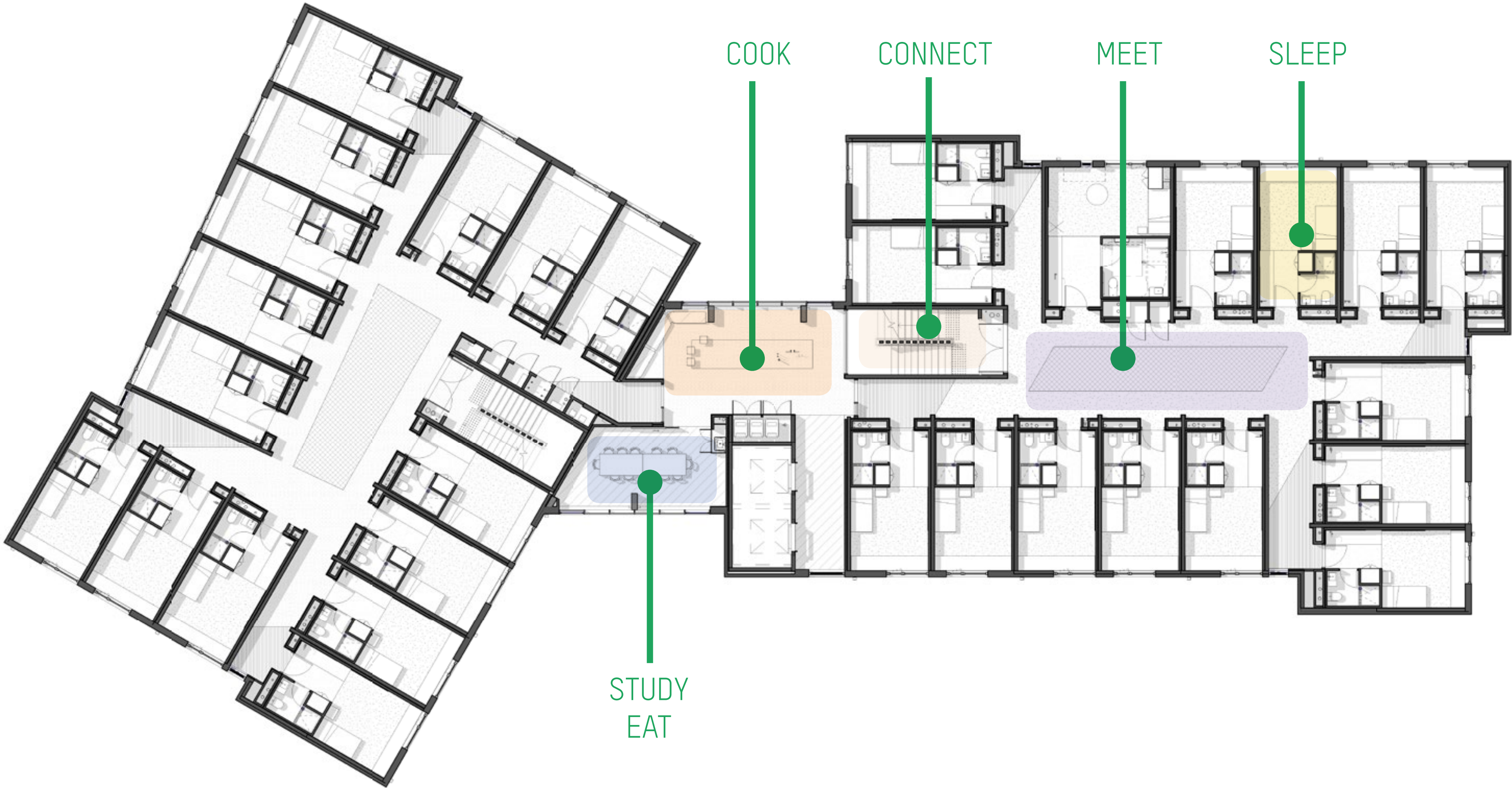
REPEAT REPEAT REPEAT



LEVEL 1 Common Areas



TYPICAL LEVEL 2-6 Residential Accomodation



TYPICAL LEVEL 2-6 KEY PASSIVE HOUSE DETAILS

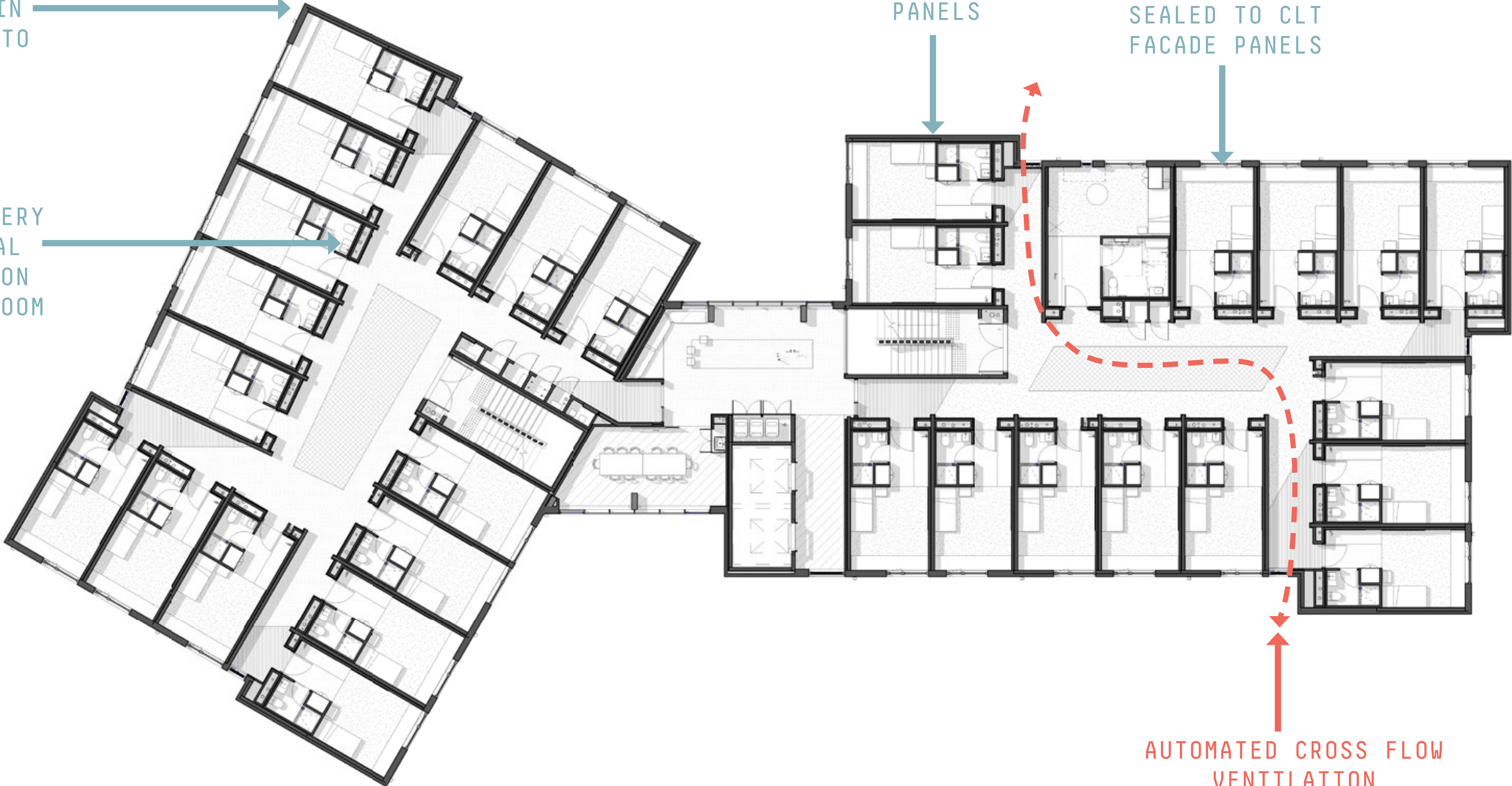
EXTERNAL
SHADING SKIN
FIXED BACK TO
CLT

HEAT RECOVERY
MECHANICAL
VENTILATION
TO EVERY ROOM

FULLY TAPED
CLT FACADE
PANELS

DOUBLE GLAZED
THERMALLY
BROKEN
WINDOWS FULLY
TAPED AND
SEALED TO CLT
FACADE PANELS

AUTOMATED CROSS FLOW
VENTILATION
FOR NIGHT PURGING



KEY RENDER

SOU APARTMENT

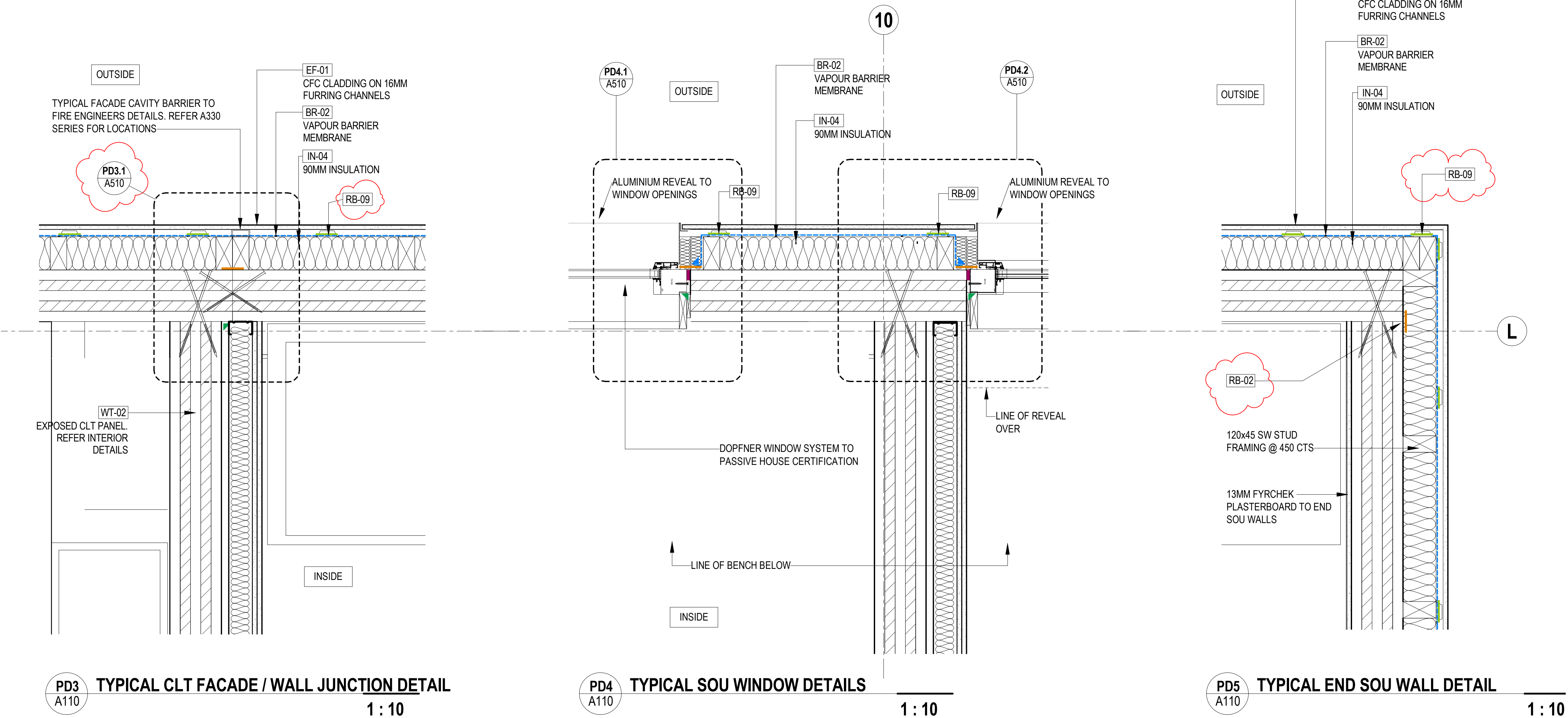


KEY RENDER

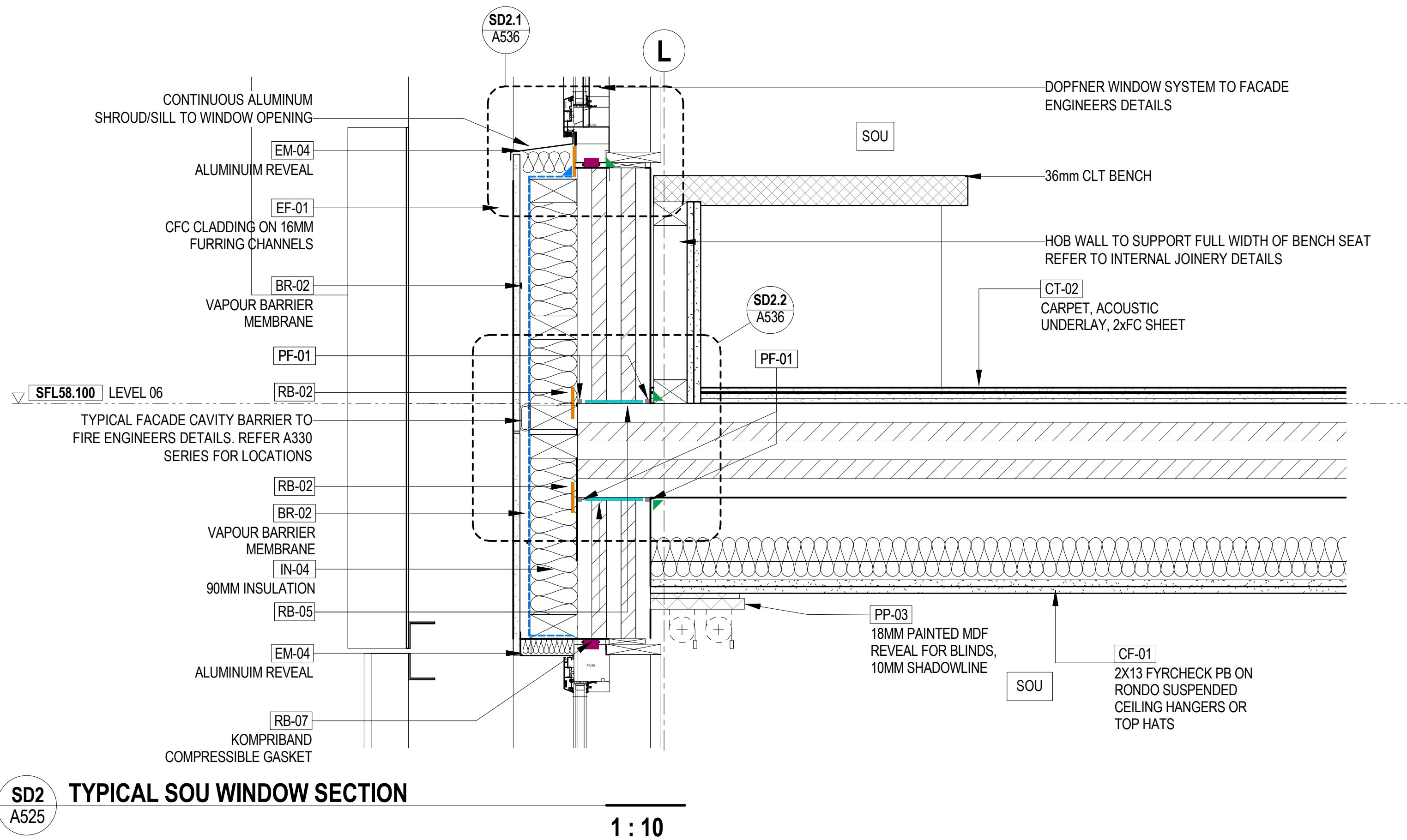
SOU APARTMENT



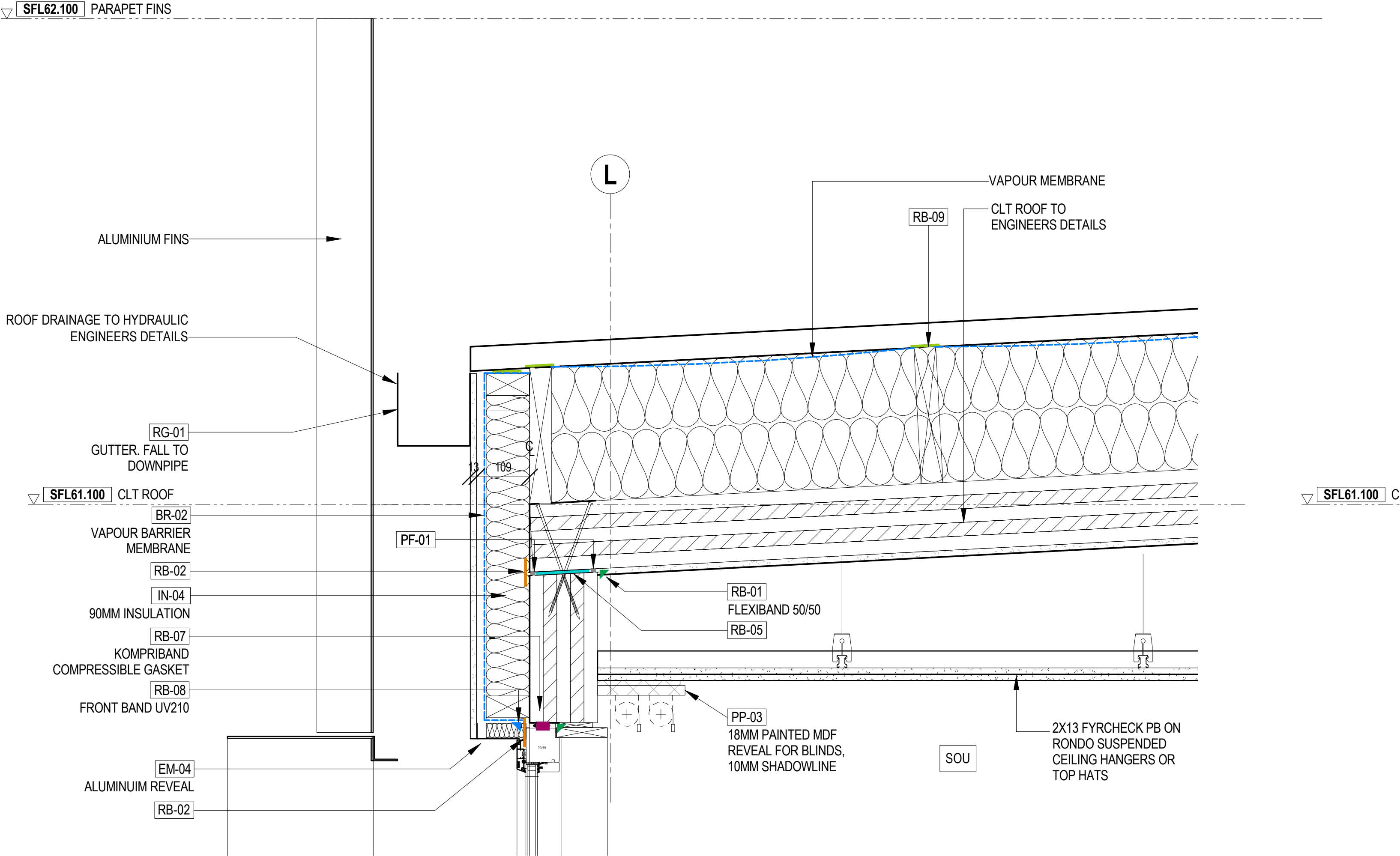
TYPICAL LEVEL 2-6 KEY FACADE PLAN DETAILS



TYPICAL LEVEL 2-6 KEY FACADE SECTION DETAILS



TYPICAL LEVEL 2-6 KEY FACADE SECTION DETAILS

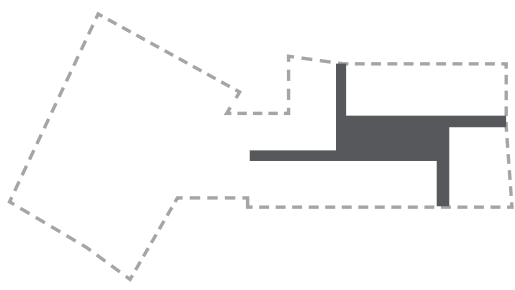


SD1 TYPICAL ROOF SECTION
A536

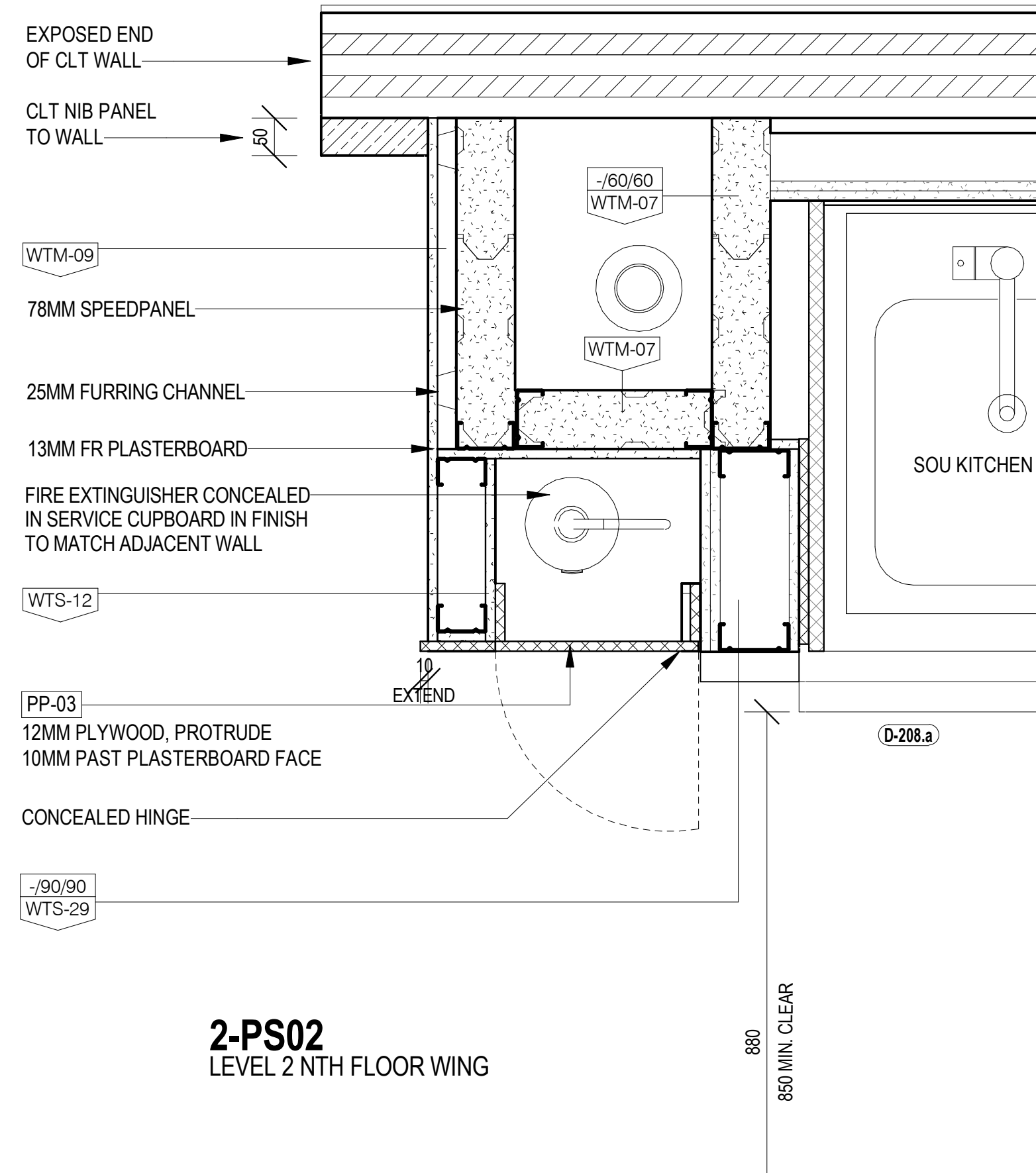
1 : 10

KEY RENDER

WING LOUNGE

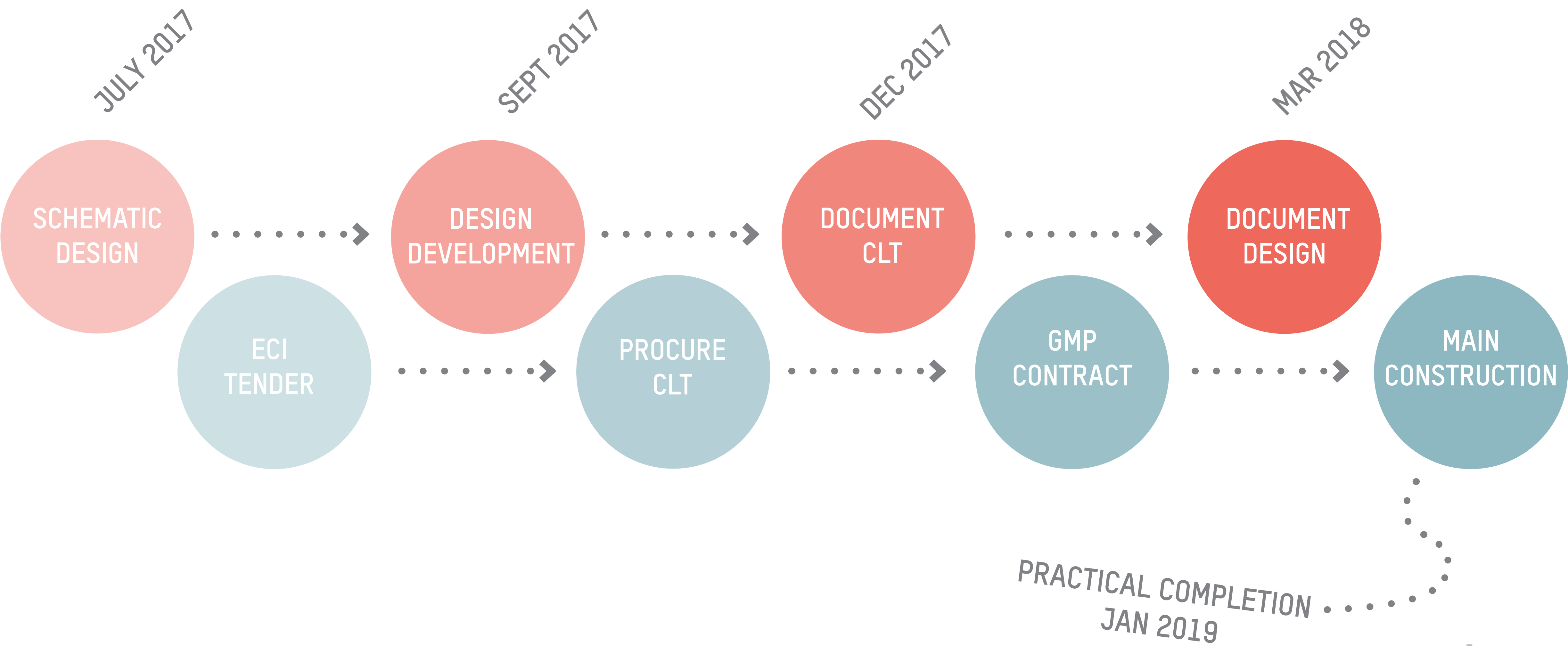


TYPICAL LEVEL 2-6 KEY PLAN DETAILS



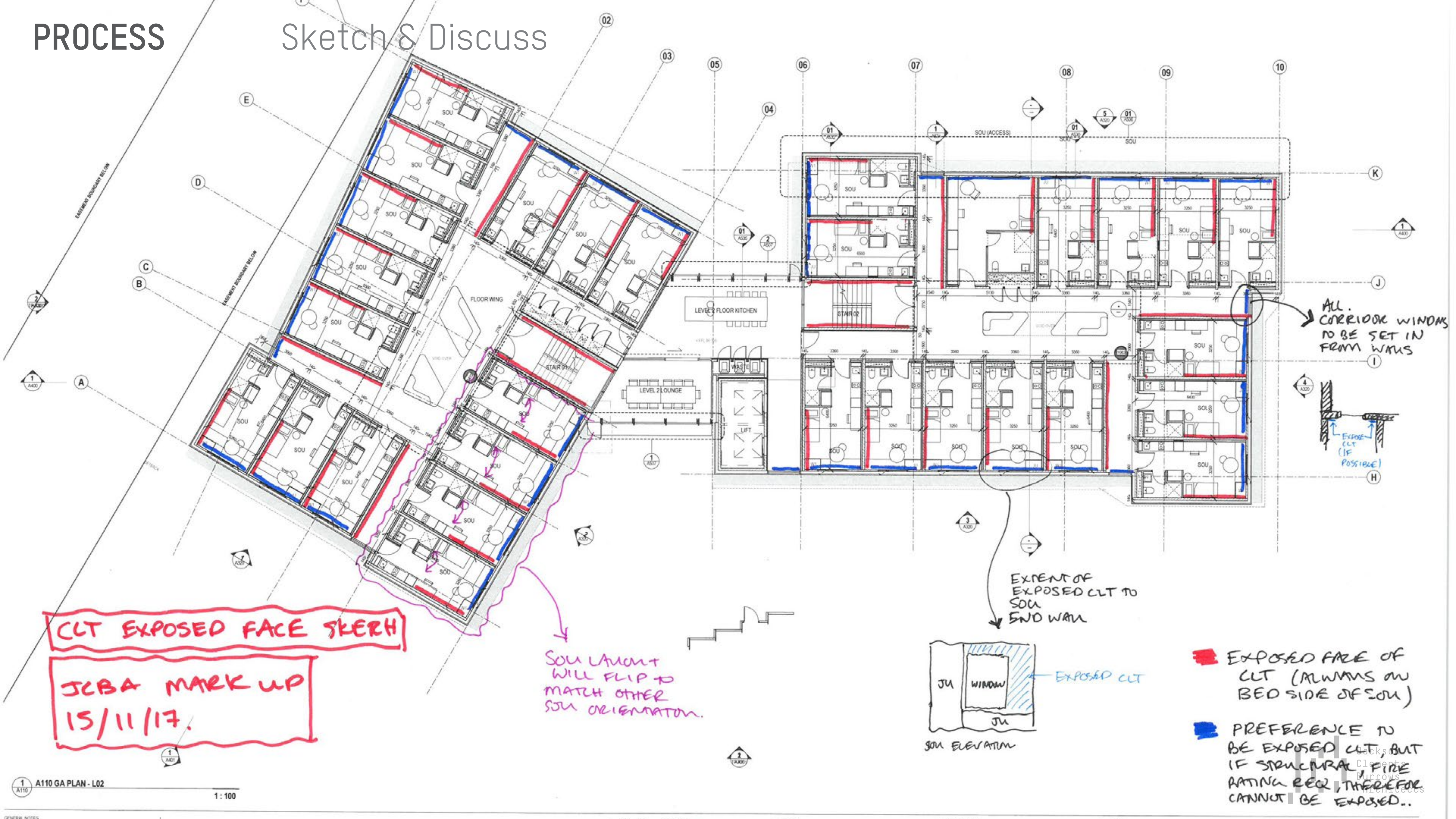
STRATEGY

Design & Procurement



PROCESS

Sketch & Discuss



PROCESS

Sketch & Discuss



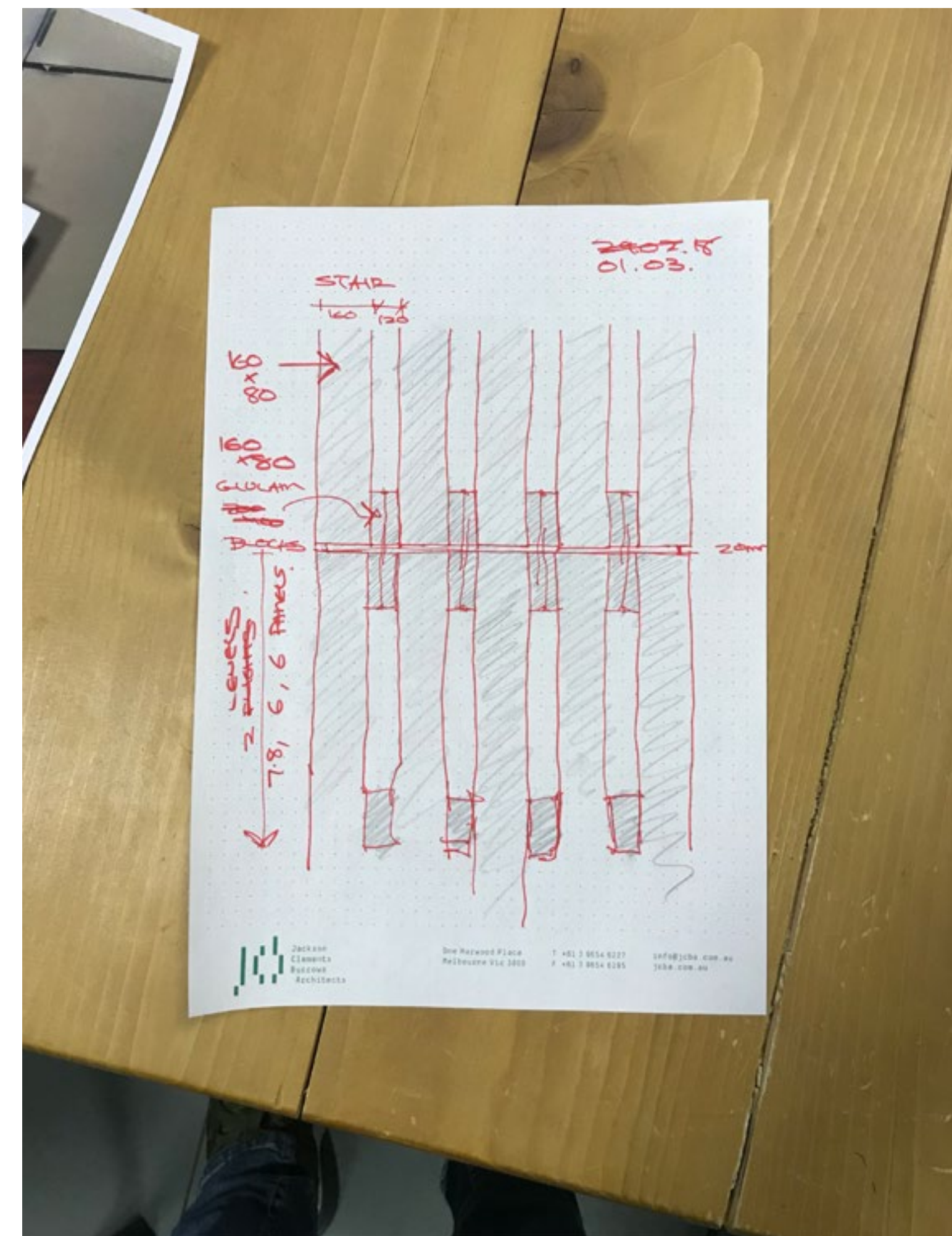
GENERAL NOTE:
REFER TO INTERIOR DESIGNER FOR
FINISHES AND FURNITURE
SERVICES PENETRATION
REFER TO SERVICES SPECIALIST

Jackson
Clements
Burrows
Architects

17-058-SK658-007

PROCESS

Sketch & Discuss



9 MONTHS AFTER APPOINTMENT...



UNDER CONSTRUCTION Doing things Differently



UNDER CONSTRUCTION First CLT Panel - June 19th 2018



UNDER CONSTRUCTION First CLT Panel - June 19th 2018



UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT





UNDER CONSTRUCTION CLT

UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT

UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT

Jackson
Clements
Burrows
Architects

UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT



UNDER CONSTRUCTION CLT



TAPING THE JOINTS Facade



TAPING THE JOINTS Window Openings



FACADE Build-ups



INTERNALS



INTERNALS



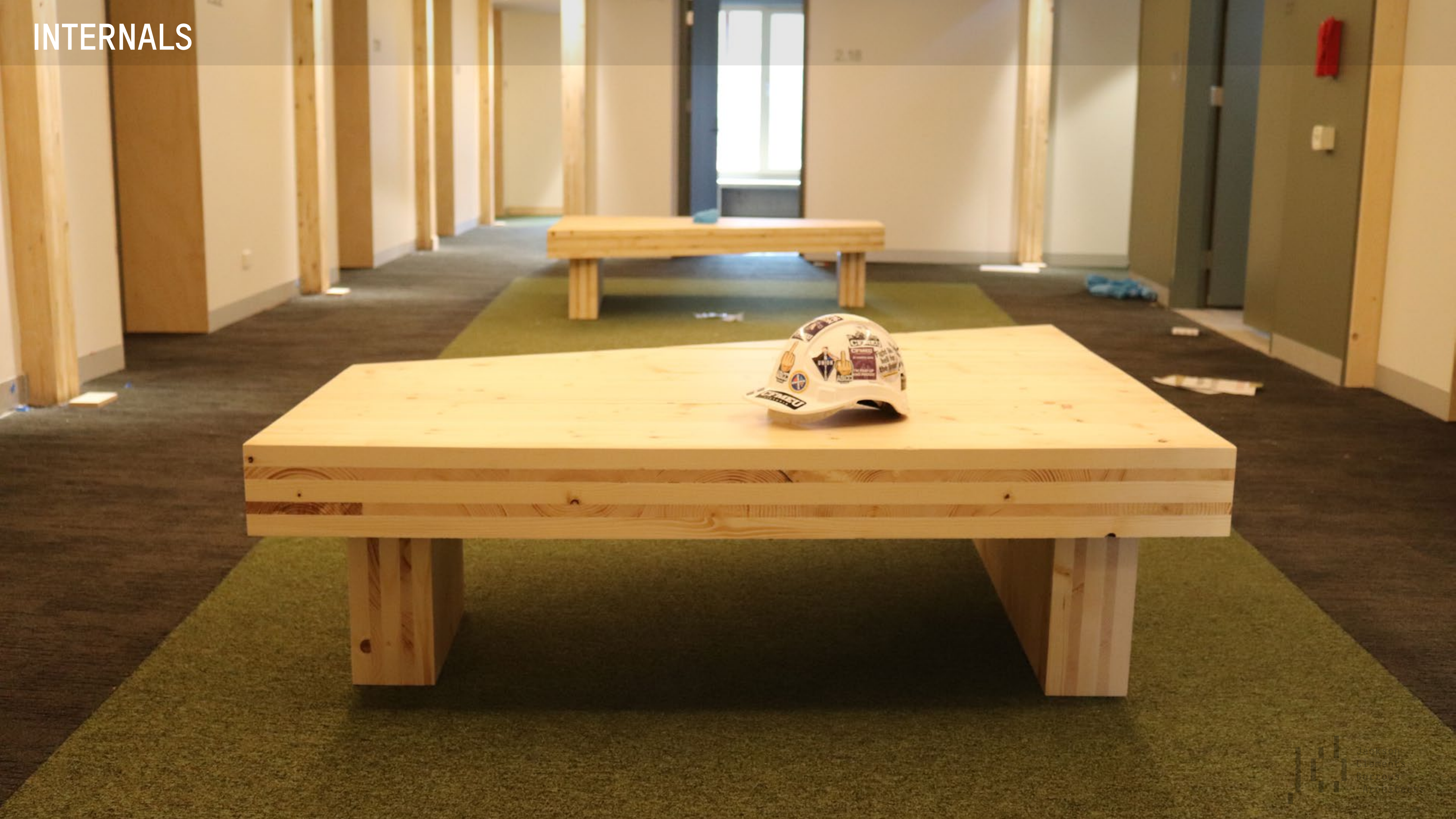
INTERNALS



INTERNALS



INTERNALS



INTERNALS



TESTING The Blower



EXTERNAL SHADING



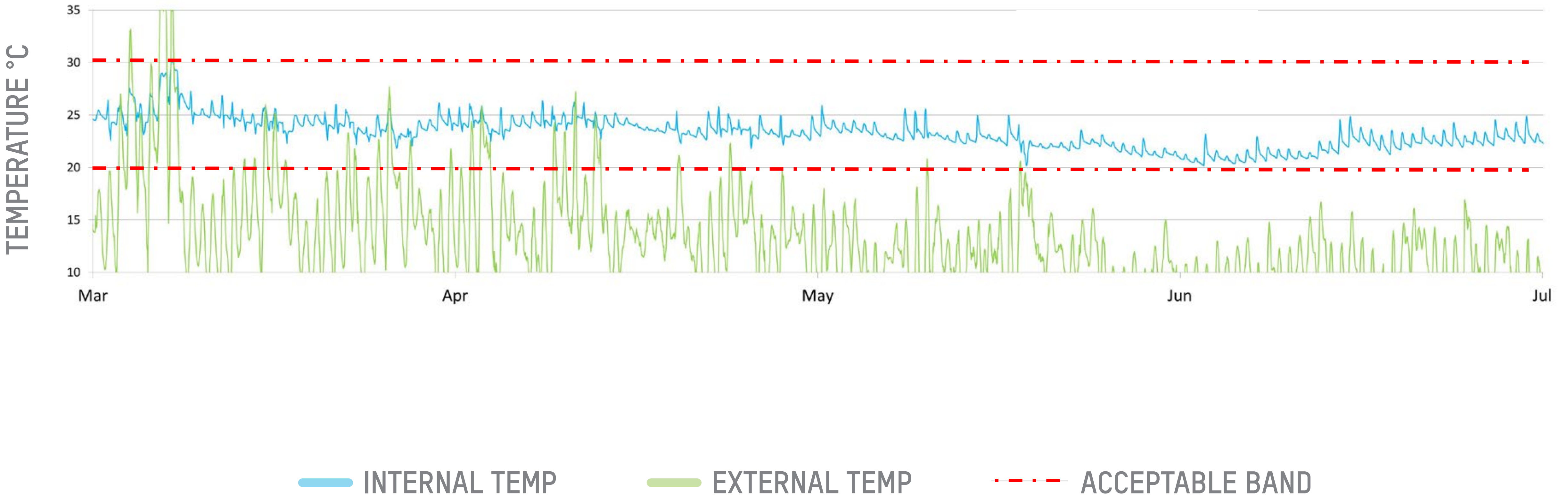
EXTERNAL SHADING



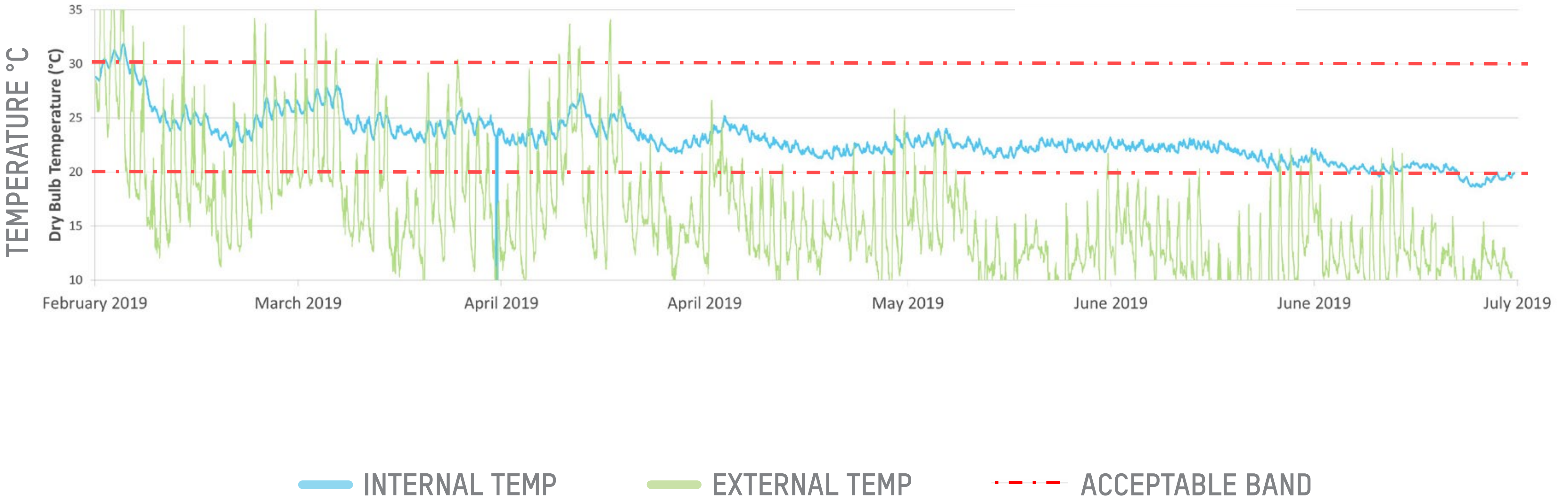
COMPLETION FEB 2019



THERMAL COMFORT Modelled



THERMAL COMFORT As Built



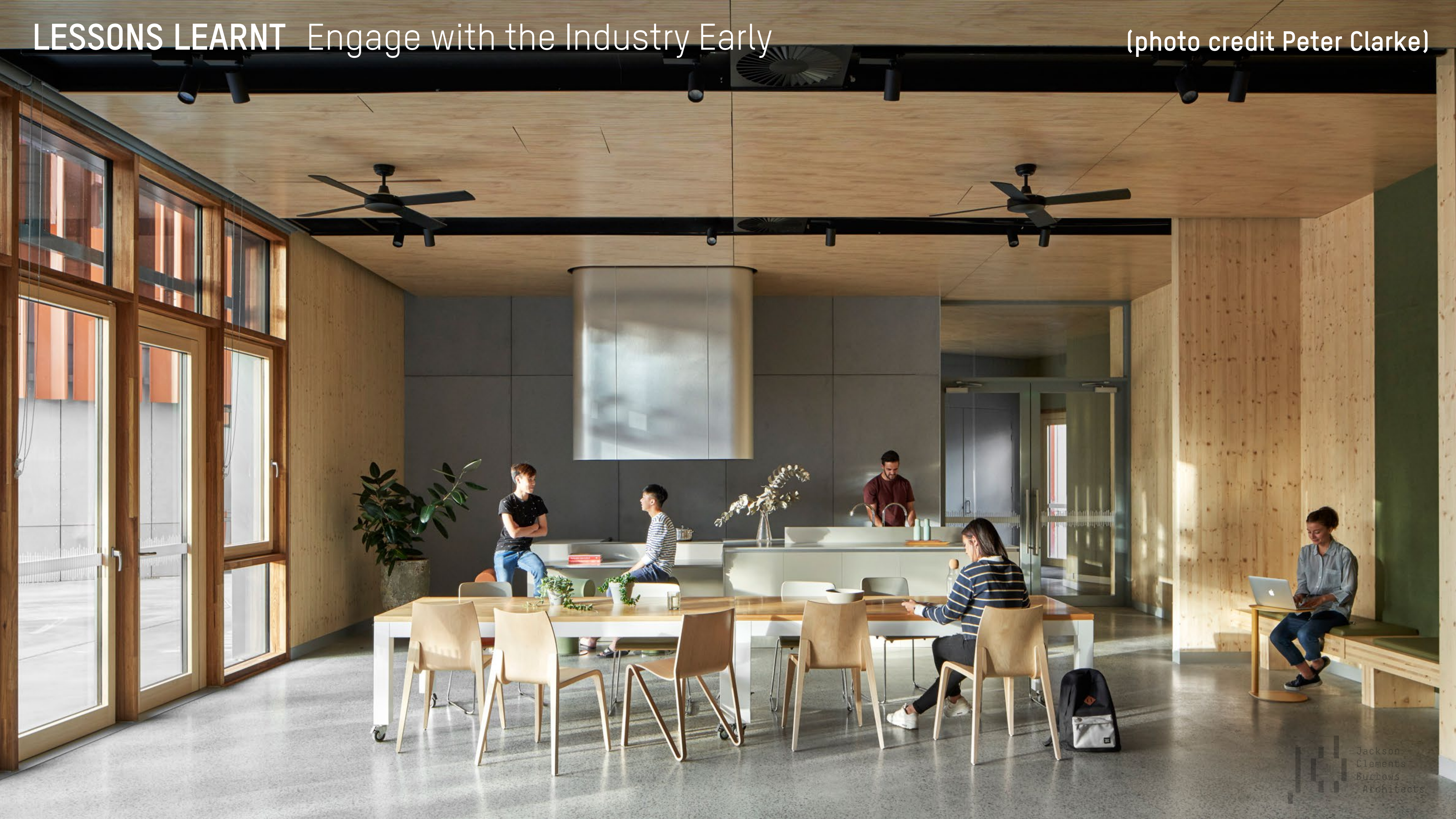
LESSONS LEARNT Collaboration is Key

(photo credit Peter Clarke)



LESSONS LEARNT Engage with the Industry Early

(photo credit Peter Clarke)



LESSONS LEARNT Test Ideas & Model Early

(photo credit Peter Clarke)



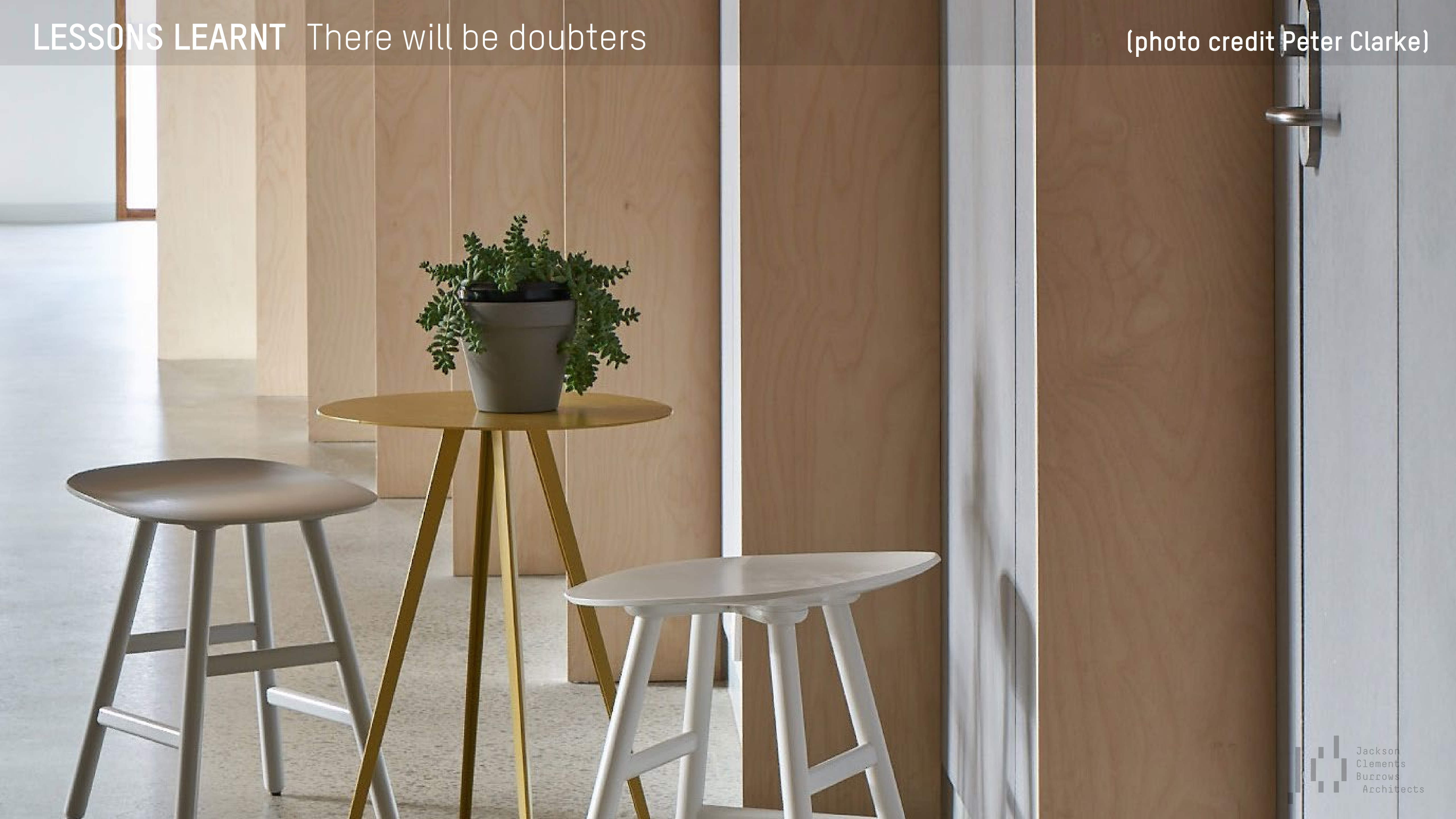
LESSONS LEARNT Be prepared to adapt

(photo credit Peter Clarke)



LESSONS LEARNT There will be doubters

(photo credit Peter Clarke)



LESSONS LEARNT Give Yourself Enough Time

(photo credit Peter Clarke)



LESSONS LEARNT Understand the Market is still immature





LESSONS LEARNT Have fun!

(photo credit Peter Clarke)

THANK YOU

(photo credit Peter Clarke)

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Clements
Burrows
Architects

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