

Scott Lenton & Chelcie Akon



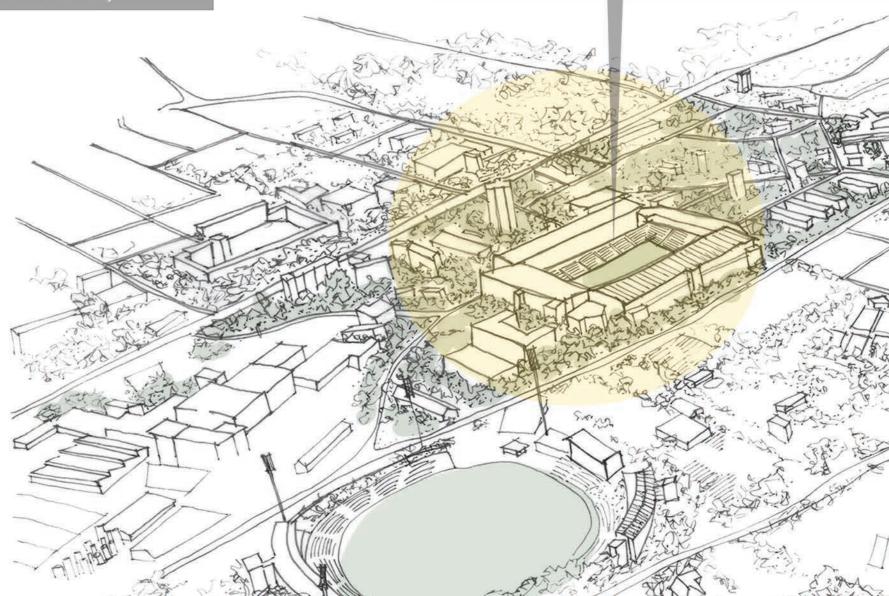
01 | CONCEPT & STORY...

We are a middle-class family of five who would like to be within proximity to schools for our three children, as well as parks, sports facilities and universities as we see this as being our home in which we will bring up our children until they enroll into university. Being active is also important to us, so we would like to be close to recreational, outdoor activities.

We want to live in a safe, suburban neighborhood to raise our children & feel integrated within a greater community!

The City of Cape Town will be relocating all provincial rugby from the Newlands Stadium to the Green Point Stadium by the year 2020. As a result of this, the iconic Newlands Stadium, which is the second-oldest rugby stadium in the world, presents the opportunity for a redevelopment into a residential entity, which will enhance the existing fabric of the historical suburban neighborhood. With its quiet tree-lined streets and the mountain close by, Newlands provides the easiest access to the city and students have UCT right on their doorstep. The residential complex could provide homes for a diverse demographic; families, university students & young professionals, as well as include additional public spaces for the larger community which will enhance the nature of the suburb.





WHAT? A residential developmen composed of modules (units)

WHERE? The Newlands Rugby Stadium, Cap-Town

WHO? A middle - income family of five

AIM

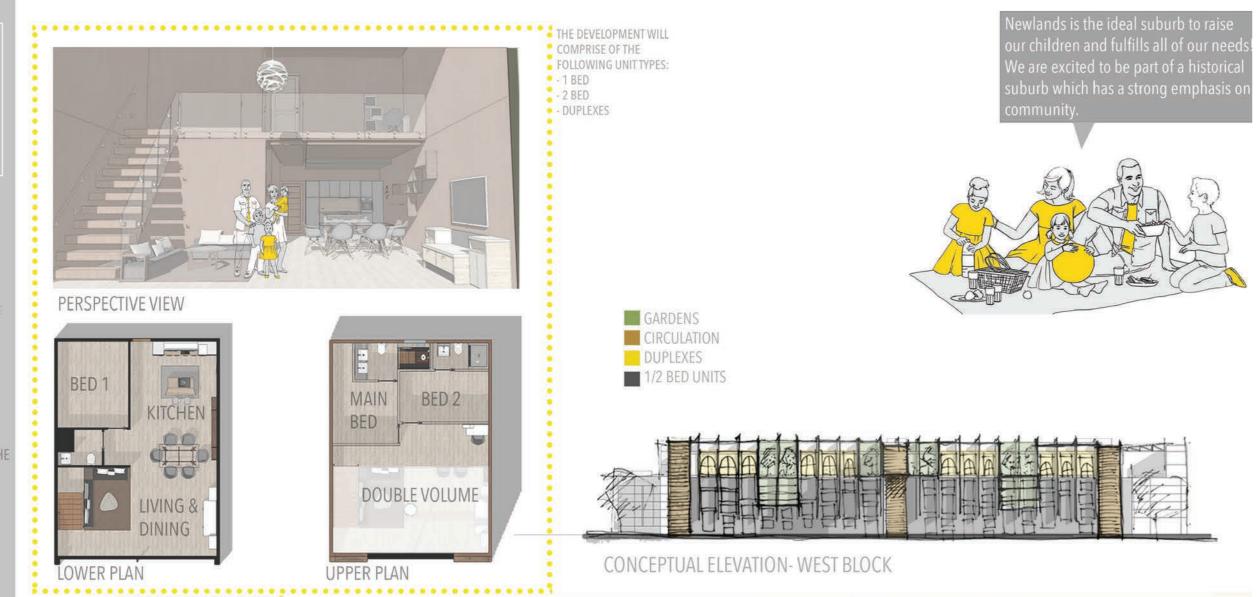
TO DESIGN A SUSTAINABLE & AFFORDABLE HOME FOR JOHN & AMY WHICH EXPLORES THE CAPABILITIES OF CROSS LAMINATED TIMBER WHEN APPLIED TO AN EXISTING STRUCTURE.

- THE DESIGN WILL PROVIDE A PRECEDENT FOR THE INNOVATIVE CAPABILITIES OF CROSS LAMINATED TIMBER (CLT) WHEN APPLIED TO THE ADAPTIVE REUSE OF AN UNOCCUPIED (OR DERELICT) STRUCTURE.
- THE USE & TECHNICAL CONSIDERATIONS
 OF CLT WHEN COMBINED WITH VARIOUS
 EXISTING MATERIALS WILL BE EXPLORED.
- CREATIVE MEANS OF SUSTAINABILITY WILL
 BE INVESTIGATED, AS WELL AS HOW AN
 EXISTING STRUCTURE CAN CONTRIBUTE TO THIS
- EXPLORE THE CONCEPT OF MODULAR DESIGN WHEN USING CLT.
- EXPLORE HOW CLT CAN BE USED (NOT ONLY IN THE DESIGN OF HOMES OR UNITS) BUT ALSO COMMUNAL FACILITIES.

THE CONCEPT OF JOHN & AMY'S HOME

JOHN & AMY'S HOME WILL BE A UNIT WHICH WILL FORM PART OF A LARGER SCHEME WITHIN THE DEVELOPMENT.

THE DEVELOPMENT WILL PROVIDE COMMUNAL FACILITIES, USING CLT, WHICH JOHN & AMY HAVE ACCESS TO. IN ADDITION, THE DEVELOPMENT WILL CONTRIBUTE TO THE EXISTING FABRIC OF NEWLANDS BY PROVIDING A NUMBER OF FACILITIES WHICH CAN BE USE BY THE PUBLIC.





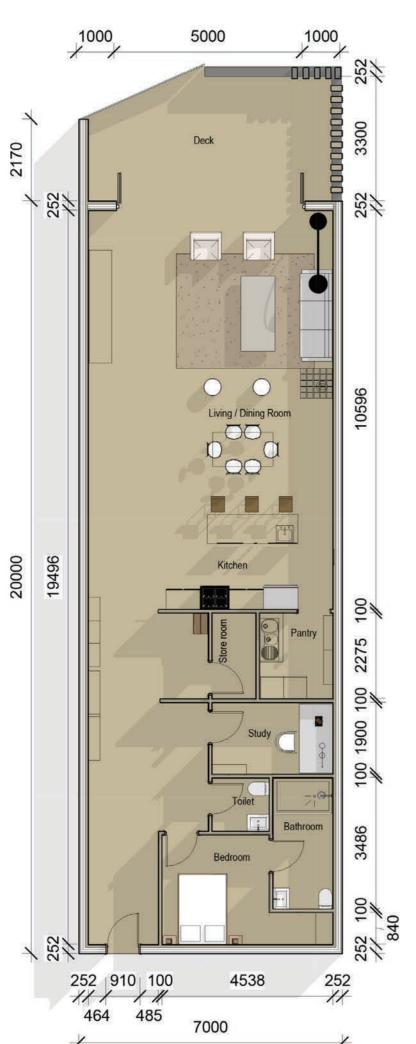
03 | FINAL PROPOSAL... 03a. Architectural drawings & detailing

3b. Artistic representations

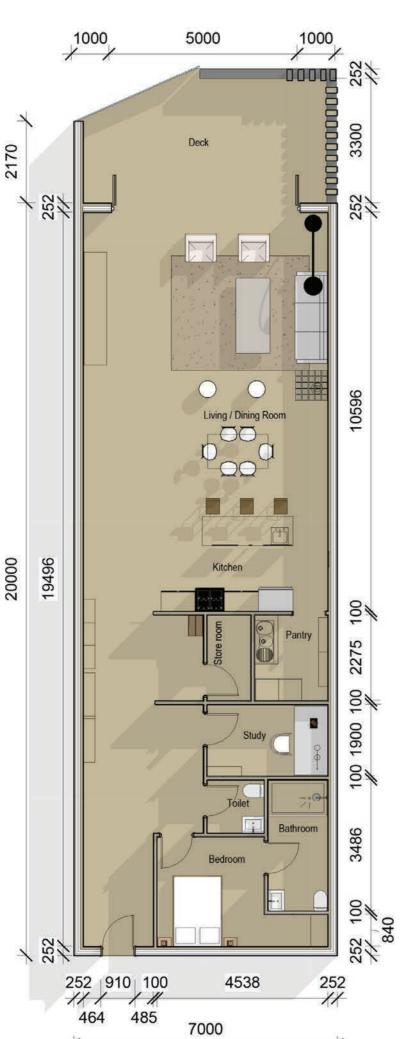


1 BED UNIT

MODULE: 7 x 20m 1 BEDROOMS 1.5 BATHROOMS STORE ROOM PANTRY STUDY KITCHEN LIVING / DINING ROOM DECK

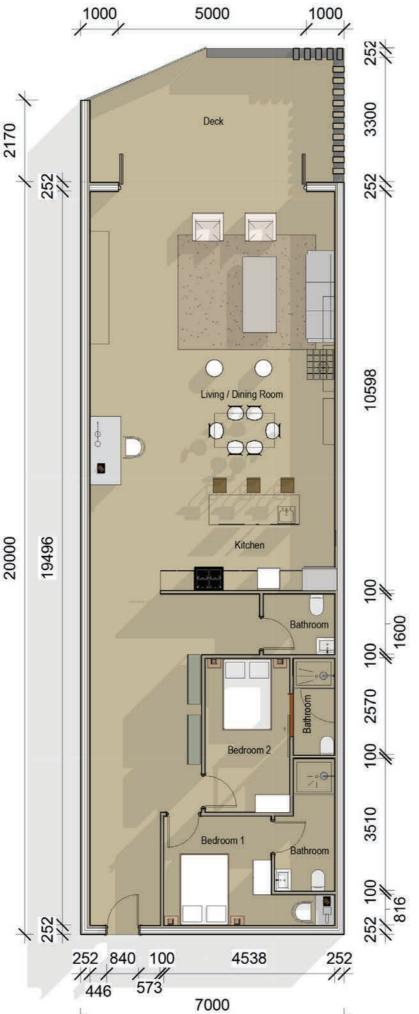


1 BED UNIT: PLAN SCALE 1:100

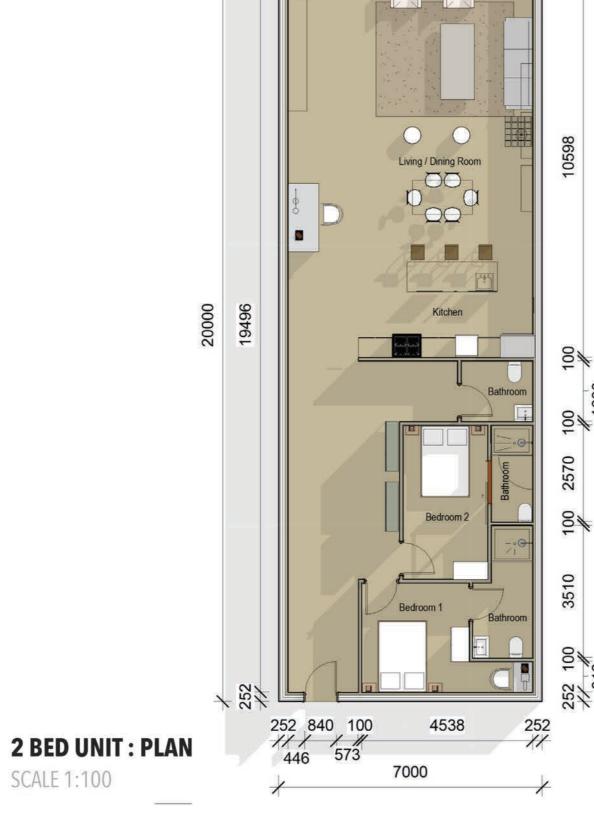


2 BED UNIT

MODULE: 7 x 20m 2 BEDROOMS 2.5 BATHROOMS KITCHEN LIVING / DINING ROOM DECK



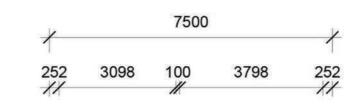
2 BED UNIT: PLAN



DUPLEX UNIT | JOHN & AMY'S UNIT

MODULE: 7 x 20m

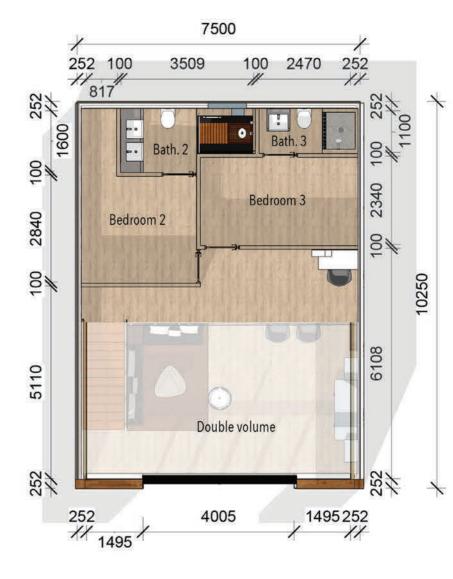
3 BEDROOM 3 BATHROOM STUDY KITCHEN LIVING / DINING ROOM DECK





DUPLEX UNIT: GROUND FLOOR PLAN

SCALE 1:100



DUPLEX UNIT: MEZZANINE LEVEL

SCALE 1:100



1 BED UNIT : LONGITUDINAL SECTION

SCALE 1:100



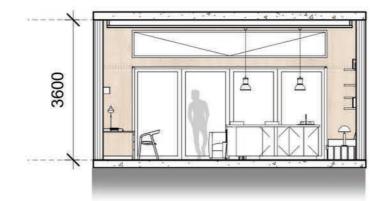
2 BED UNIT : LONGITUDINAL SECTION

SCALE 1:100



DUPLEX UNIT: LONGITUDINAL SECTION

SCALE 1:100



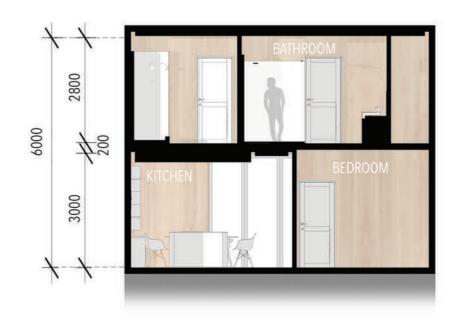
1 BED UNIT : CROSS SECTION

SCALE 1:100



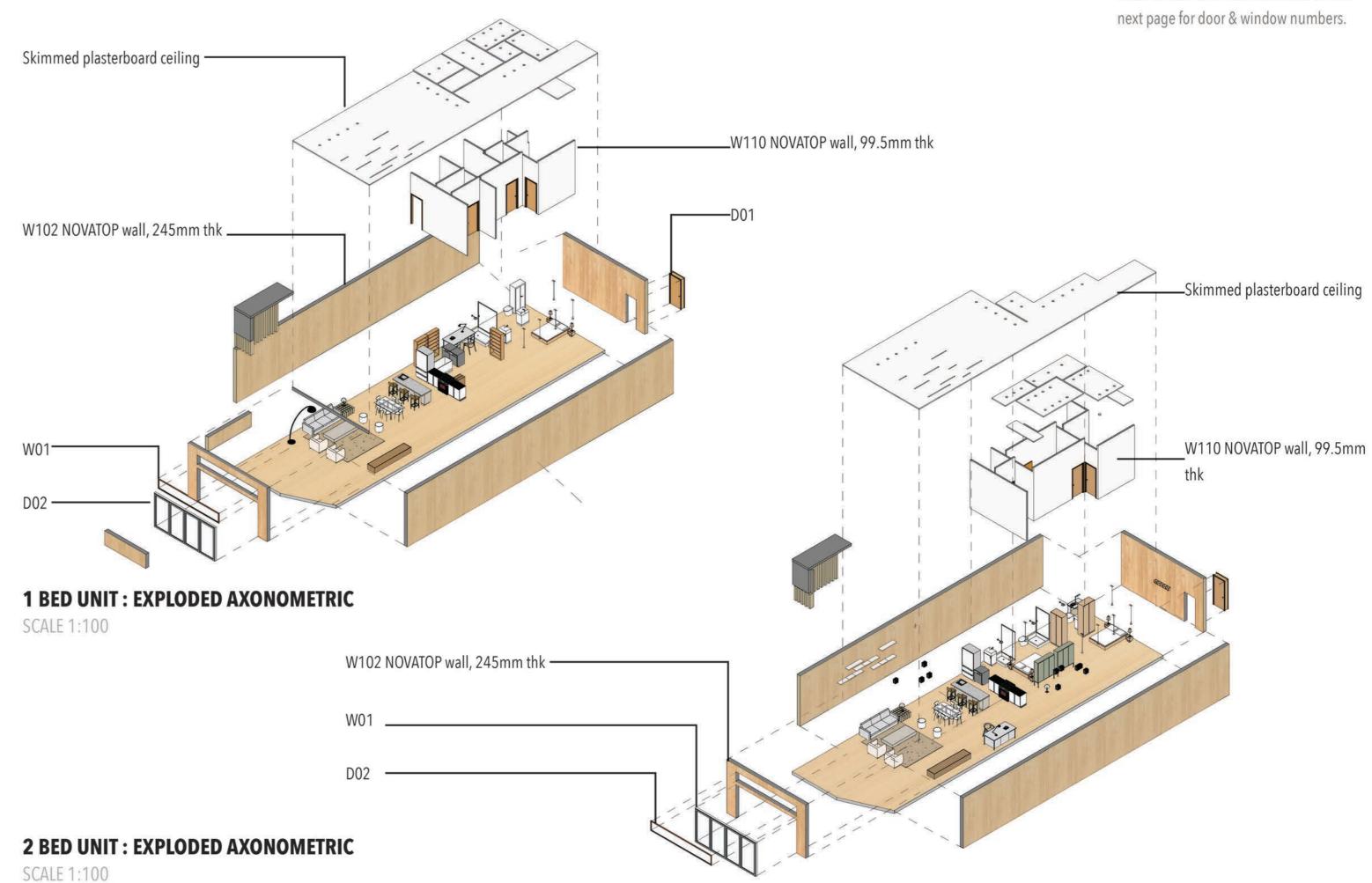
2 BED UNIT : CROSS SECTION

SCALE 1:100

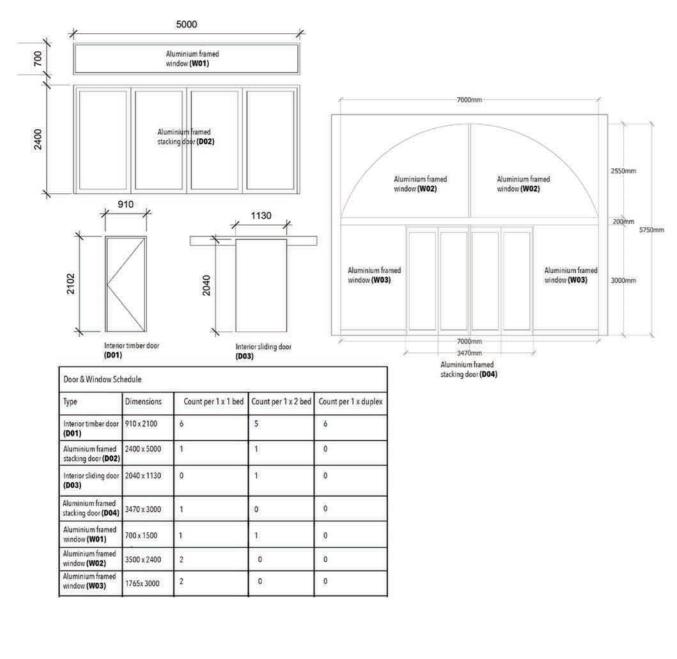


DUPLEX UNIT : CROSS SECTION

SCALE 1:100



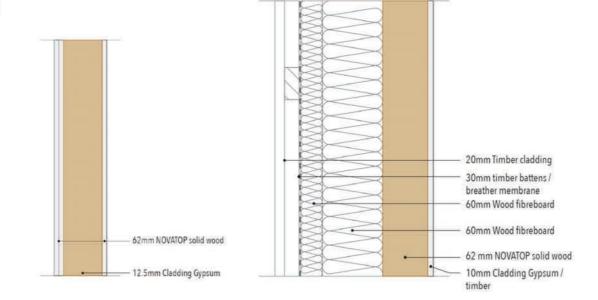
WINDOW & DOOR SCHEDULE:



NOVATOP SYSTEMS USED:

WALL SYSTEMS

W102 242mm thk wall W110 99.5mm thk wall



W102

CEILINGSF200 CEILING SYSTEM

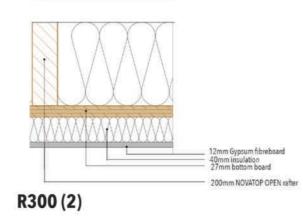
27mm NOVATOP element
186mm Air gap
Wood fibreboard

27mm NOVATOP element

W110

F200

ROOFS R300 ROOF SYSTEM



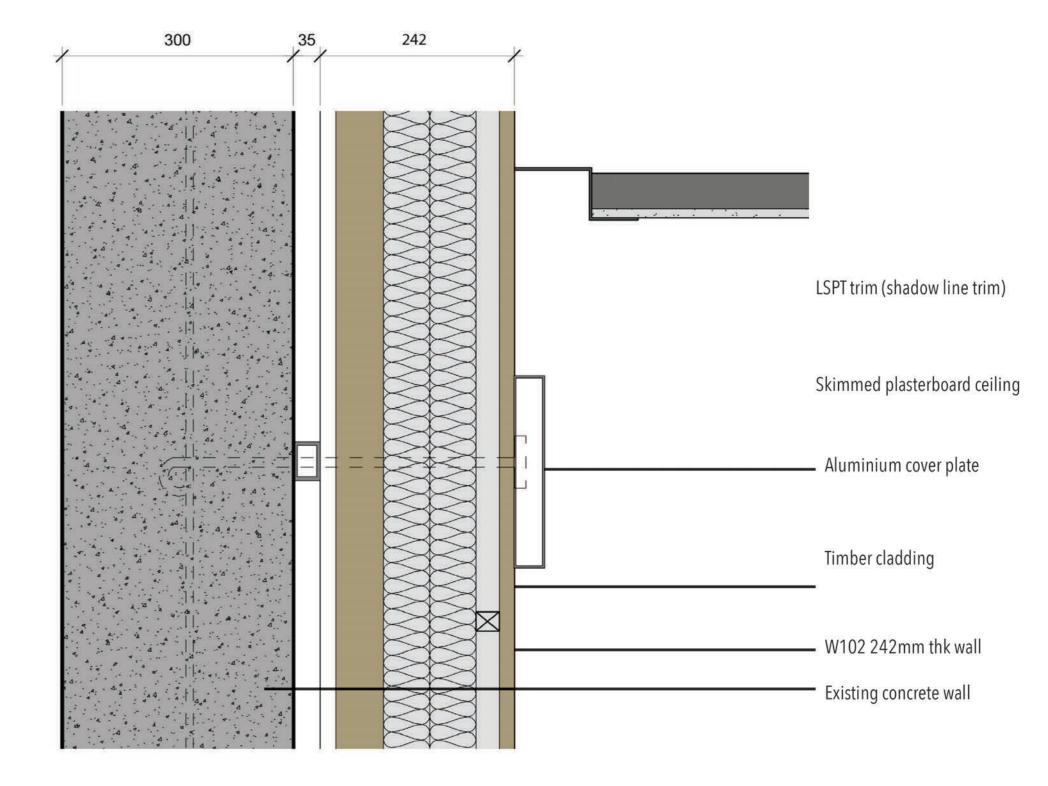
NOVATOP DETAILS USED:

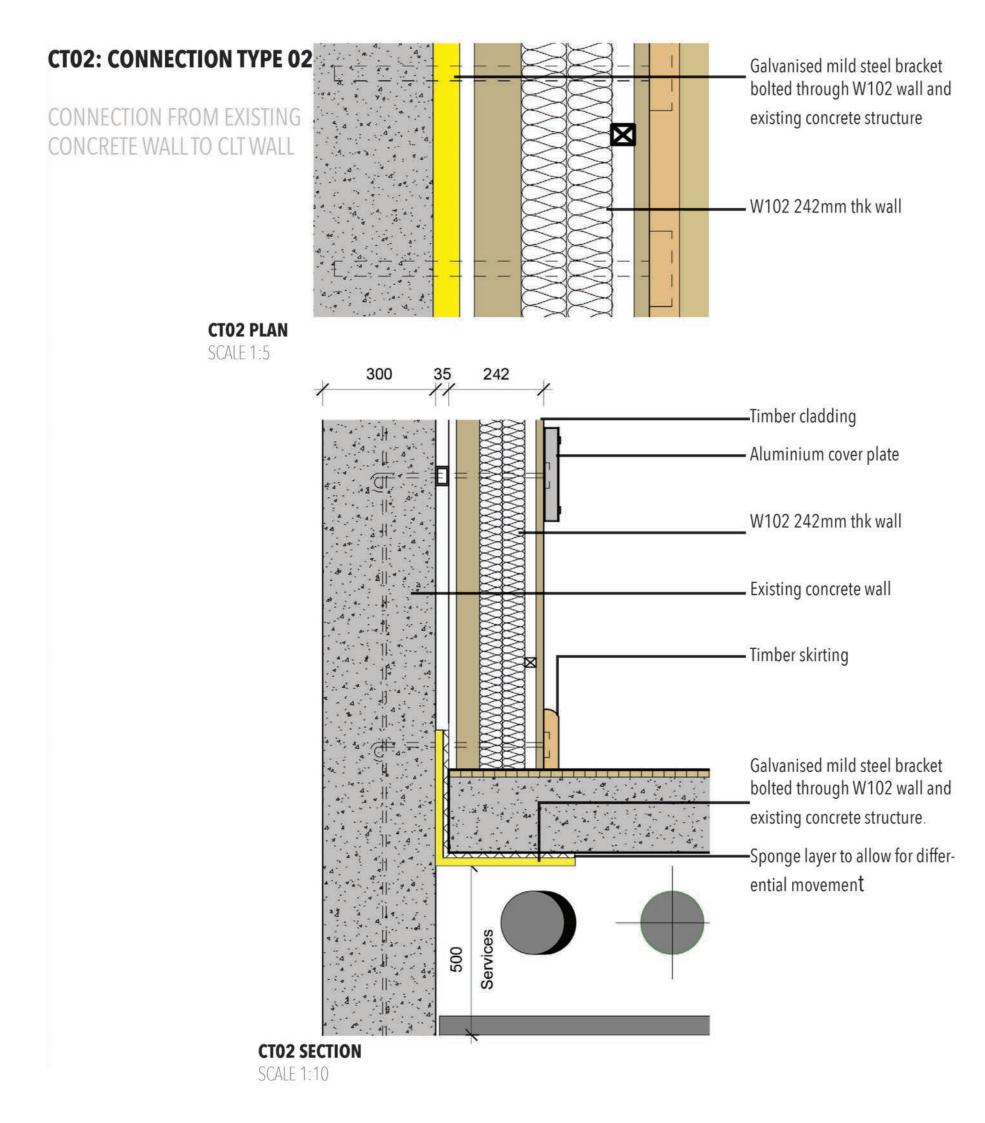
ND200 CEILING TO EXTERNAL WALL DETAIL

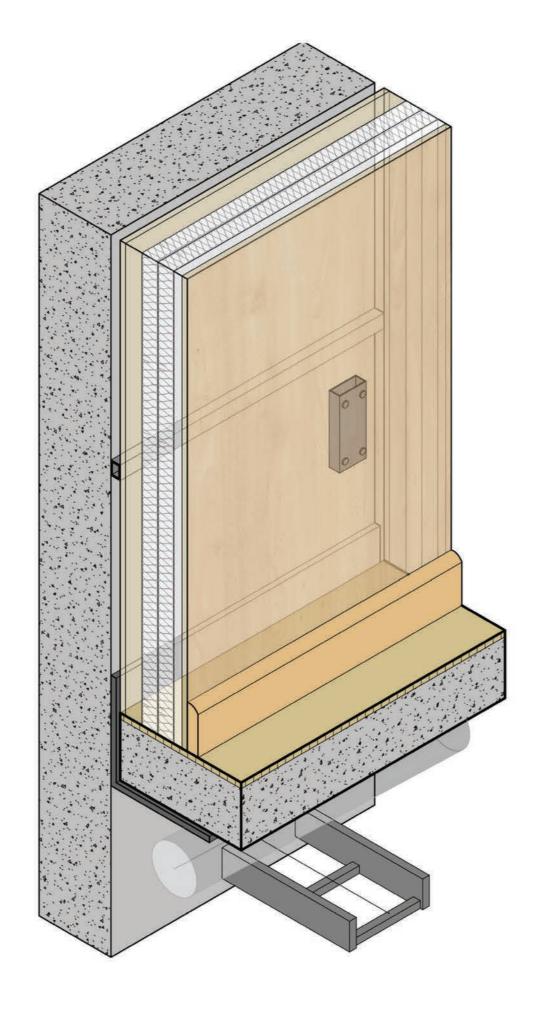
ND117 VENTILATED FACADE DETAIL
Outside corner EW 62

CT01: CONNECTION TYPE 01

CONNECTION EXISTING WALLTO CEILING

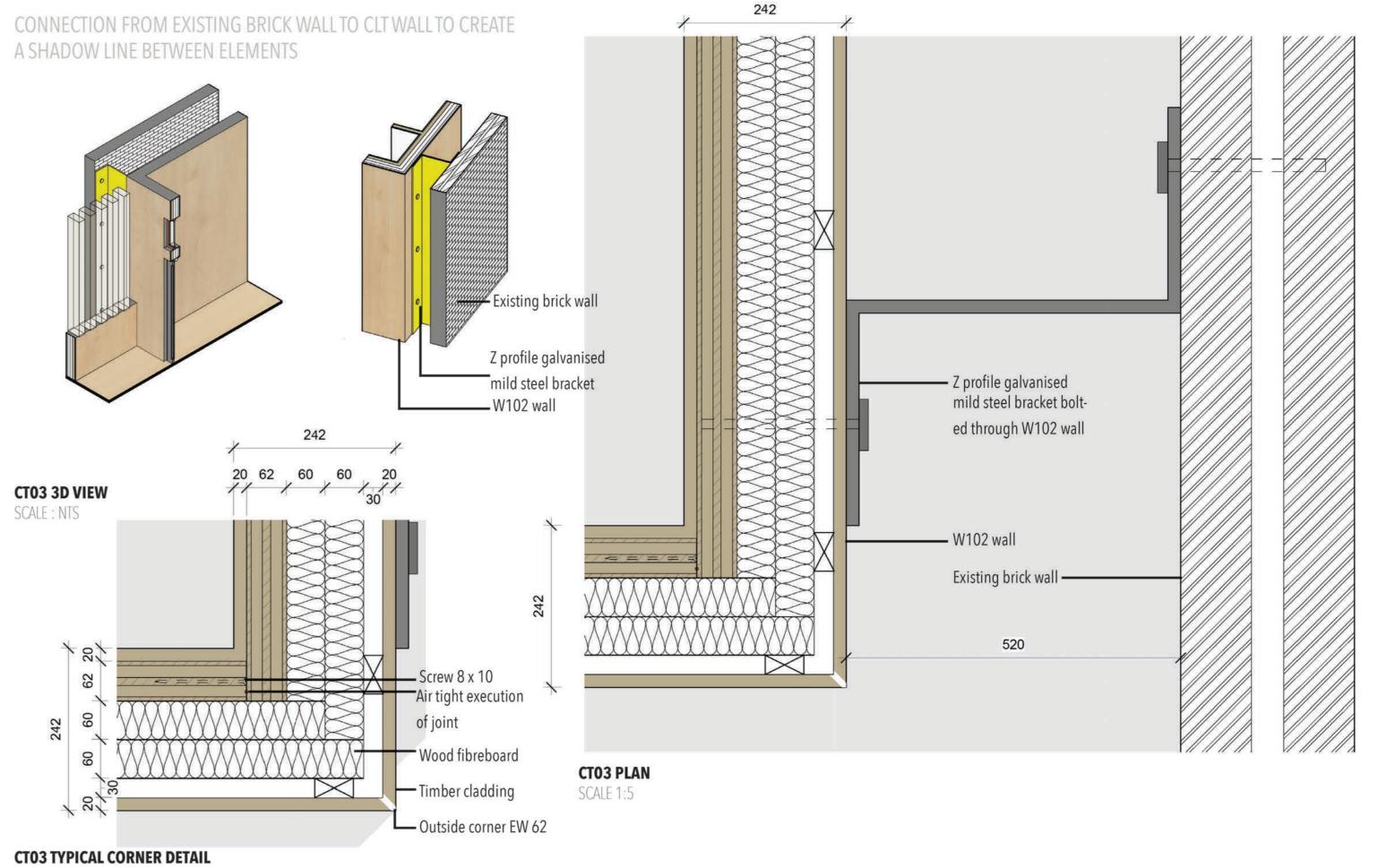






CTO2 3D VIEW SCALE 1:5

CT02: CONNECTION TYPE 03

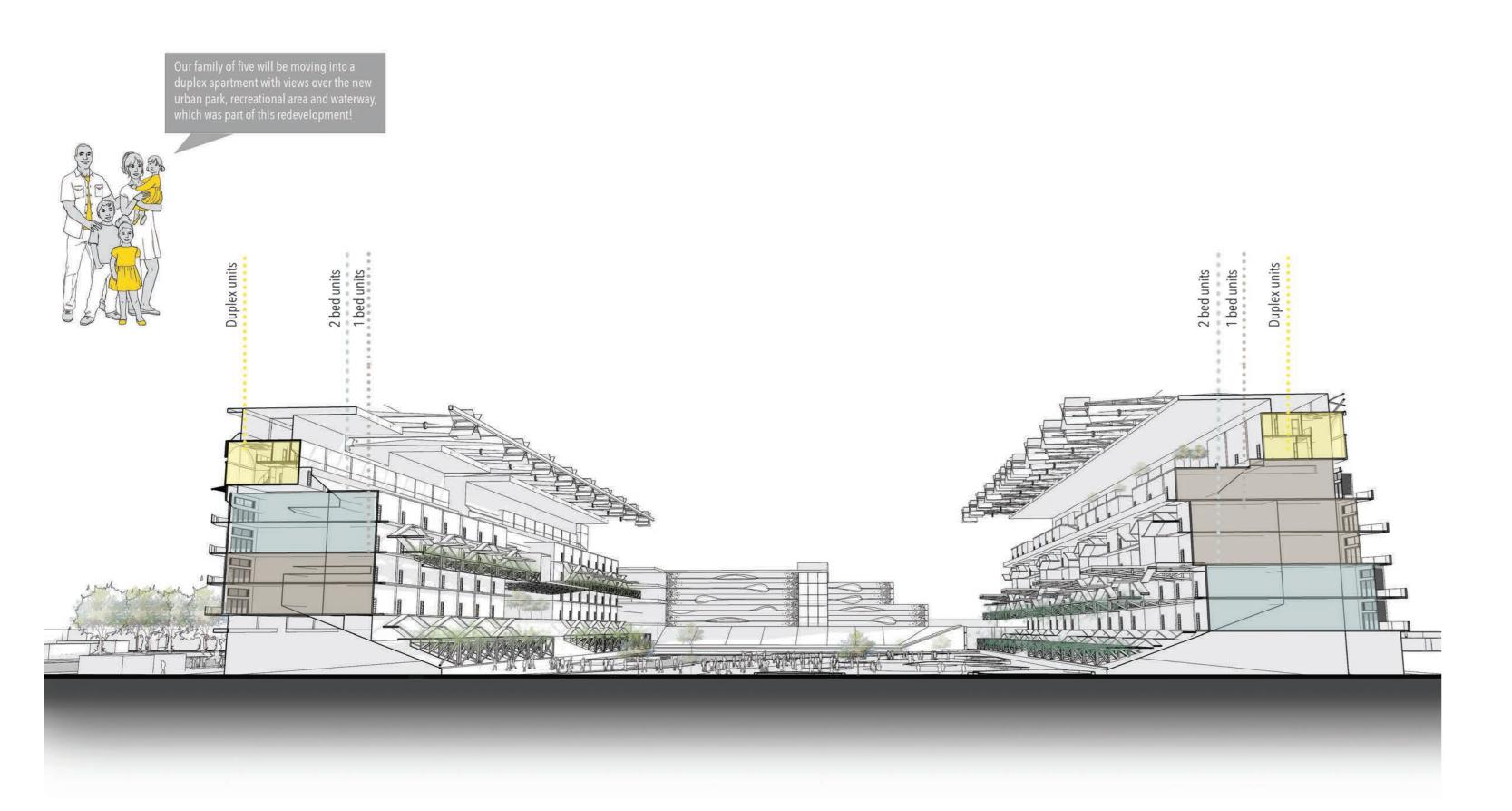


SCALE 1:5

03 | FINAL PROPOSAL...

O3a. Architectural drawings & detailing

03b. Artistic representations



NEWLANDS SPATIAL DEVELOPMENT FRAMEWORK

A VISION FOR HOW A NEW SUBURBAN PUBLIC PARK, INTEGRATED WITH THE CLT DESIGN PROPOSAL CAN MAKE BETTER COMMUNAL SPACES.



NEWLANDS SPATIAL DEVELOPMENT FRAMEWORK

THE EXISTING CANALISATION OF THE LIESBEECK RIVER IS RE-IMAGINED TO BRING ATTENTION TO THE EXISTING NATURAL SYSTEMS IN NEWLANDS.



ARRIVAL INTO RESIDENTIAL COMPLEX

THE PRECEDING FORECOURTS ALLOW FOR EASY MOVEMENT INTO THE PROPOSAL.



ORGANISATION OF CLT MODULES

EXISTING STRUCTURAL ELEMENTS DEFINE CERTAIN PARAMETERS IN THE SCHEME, RESULTING IN A MODULARISATION OF UNITS.



COURTYARD OVERVIEW

BOTH NATURAL SYSTEMS (WATER & TOPOGRAPHY) ARE EMPHASISED THROUGH THEIR CELEBRATION IN THE COURTYARD. TABLE MOUNTAIN HAS BEEN OUTLINED ON THE WATER'S EDGE.



ORGANISATION OF UNITS ALONG RIVER EDGE

THE ORGANISATION OF THE UNITS ALONG THE WATER EDGE CREATES UNOBSTRUCTED VIEWS OF THE MOUNTAINS. HYDRO-ELECTRIC POWER IS GENERATED & USED THROUGHOUT THE COMPLEX.



COURTYARD SIDE FUNCTIONS

OPEN AIR CIRCULATION HAS BEEN PLACED OVERLOOKING THE COURTYARD, WITH ALL UNITS HAVING ACCESS TO PUBLIC SPACES WHICH ALLOW FOR GROWING OF VEGETABLES & PLANTING, BUILT INTO THE EXISTING ROOF STRUCTURE ARE CUSTOM DESIGNED WIND TURBINES THAT WILL CONTRIBUTE TO GENERATING POWER.



ATMOSPHERE & PRESENCE

THE WATER AND ENCLOSURE PROVIDED BY THE EXISTING ELEMENTS CREATE AN INTIMATE SENSE OF COMMUNITY, SAFETY & SERENITY.



PLATFORM GARDENS

EACH UNIT'S OWNER HAS ACCESS TO THEIR OWN GARDEN SPACE. PART OF LIVING IN THIS DEVELOPMENT WOULD BE THE ENCOURAGEMENT OF SUSTAINABLE LIVING.

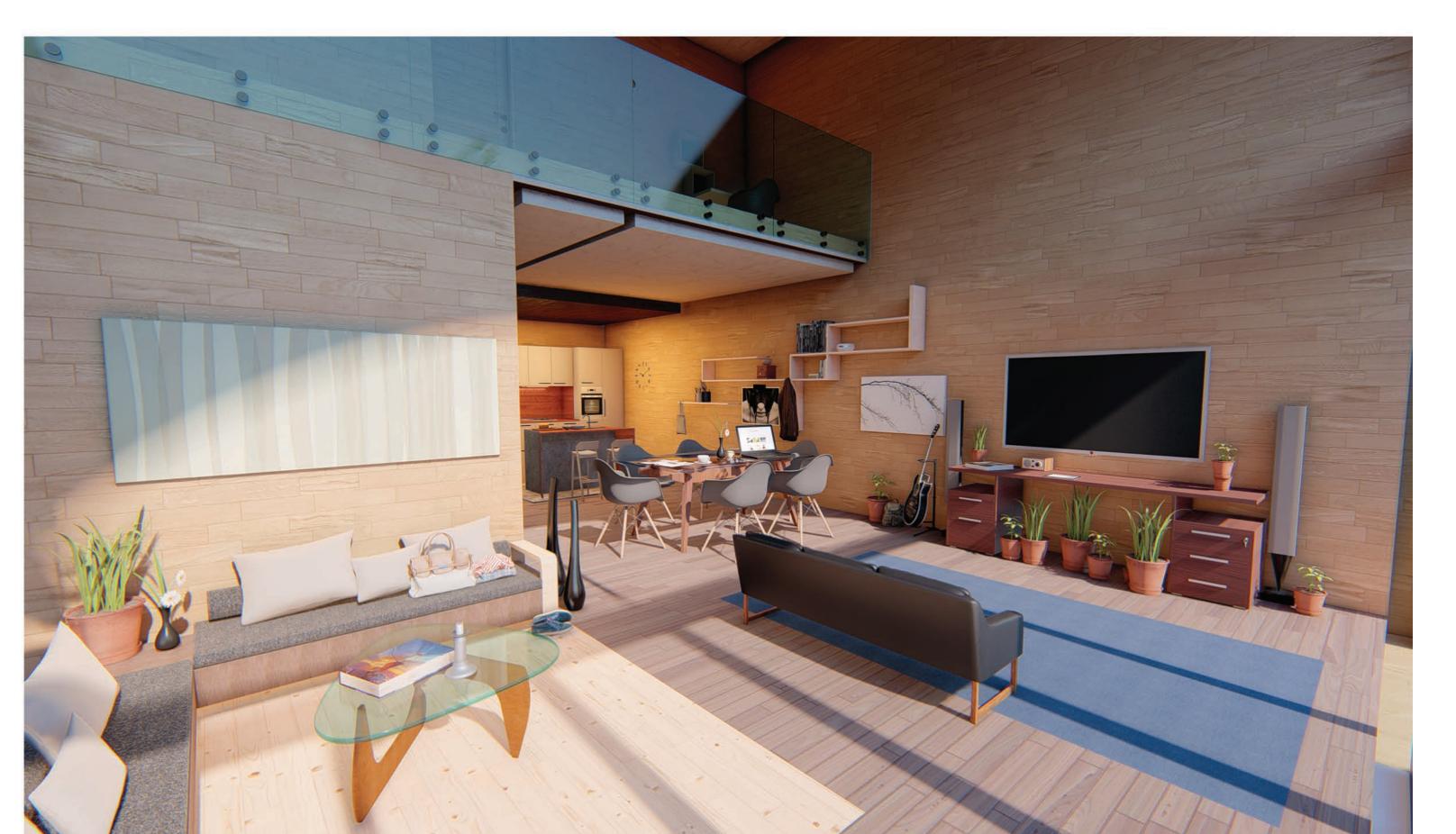


ACCESSIBILITY & CONNECTIVITY

3D VIEW | DUPLEX UNIT

THE SITE IS EASILY ACCESSED FROM THE MAIN ROAD,
WHILE STILL MAINTAINING A HIGH LEVEL OF CONNECTIVITY
WITH THE EXISTING URBAN FABRIC OF CAPE TOWN.





3D VIEW | DUPLEX UNIT





3D VIEW | 1/2 BED UNIT



