

BIOTEKT

DESIGN CATALOG



BIOTEKT, THE FUTURE NOW



BIOTEKT = BIO ARCHITECTURE, A new way to build, sheltered and protected by the earth and nature. Just imagine spaces as invisible from the outside as a cave, but airy and full of natural light inside ... Houses that will pay for themselves over time, reducing heating or cooling bills and maintenance... Living surrounded by nature but separated from its unwanted effects like humidity and extremes of temperature and weather by a perfect waterproof barrier... And imagine getting all this at costs equal to or lower than ordinary buildings.

ECOSPHERE® AND OASIS®



BIOTEKT systems are divided into two distinct categories, **ECOSPHERE** and **OASIS**; both of them are based on a super-strong, insulated, composite shell made from panels of **BIOCOMPOSITE®** a new construction material developed by BIOTEKT. The shells are formed by various shapes that can be combined to form an infinite variety of floor plans, with domed and vaulted roofs and straight walls. In the **ECOSPHERE** the shell is then covered with earth and plants to form a massive structure, and in **OASIS** it is covered with stabilized sand and a mixture of local materials.

ECOSPHERE



ECOSPHERE is a modular construction system consisting of a lightweight but strong shell, made of composite materials, designed to be covered by earth and vegetation. An Ecosphere can be built above grade, semi- underground, or totally underground. If the **ECOSPHERE** is mostly above grade the earth is structured using various low-cost reinforcing systems that we provide or which can be locally sourced. These simple methods can also be refined to provide even greater energy savings in colder climates using **Passive Solar (PAHS)** systems in which **energy savings can reach up to 100%**, needing little or no external heating sources even in the harshest weather conditions.



OASIS



Over 300 million people live in the world's deserts and semi-deserts, where a vegetated building system like the Ecosphere would be impractical to maintain. At the same time buildings in these dry climates with extremes of heat and cold can benefit greatly from the principles of earth-sheltering. For these reasons we have developed **Oasis**, designed for deserts and arid regions. **Desert sand**, one of the planet's most abundant materials, is generally considered useless for building because its grains are rounded like tiny marbles, instead of angular as in beach or river sand. However, stabilized and in combination with **composites** it can be used to create beautiful, durable and **energy saving buildings**.



BUILDING PROCESS



The new way to build, high tech composites made from recycled materials and structured earth systems are in a class of their own in the modern housing and building industry. Materials that will last for centuries with no sign of decay and Architecture that responds to the environment perfectly are creating a new paradigm shift in construction techniques...



PROTOTYPE HOMES

Our systems are modular and have been designed to adapt to your needs; There is an endless range of variations in design that can be formulated to fit almost any project. Because of the intimate contact of our buildings with the surrounding terrain, climate and topography, every home or other type of construction can be a unique design, taking into account all variables and conditions to create the perfect design...

The following section is a selection of our growing number of prototypes you can use as is, or customize any way you like, all of which have started out as individual designs for clients...



SEA GRAPE

276 SQUARE FEET – ONE ROOM CABIN



SEA GRAPE

PLAN VIEW



SEA GRAPE

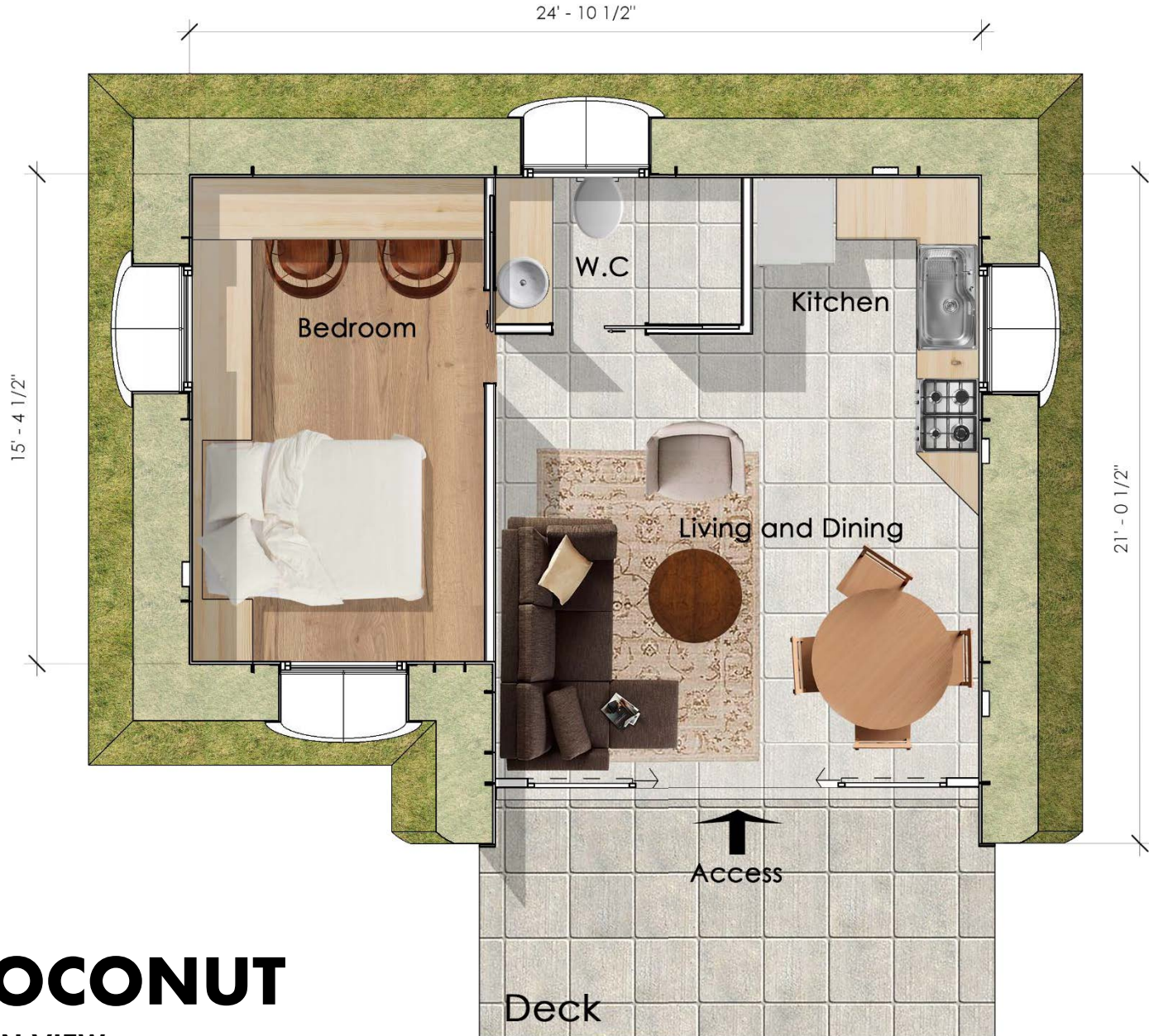
CROSS SECTION



COCONUT

484 SQUARE FEET – ONE BEDROOM





COCONUT

PLAN VIEW

COCONUT

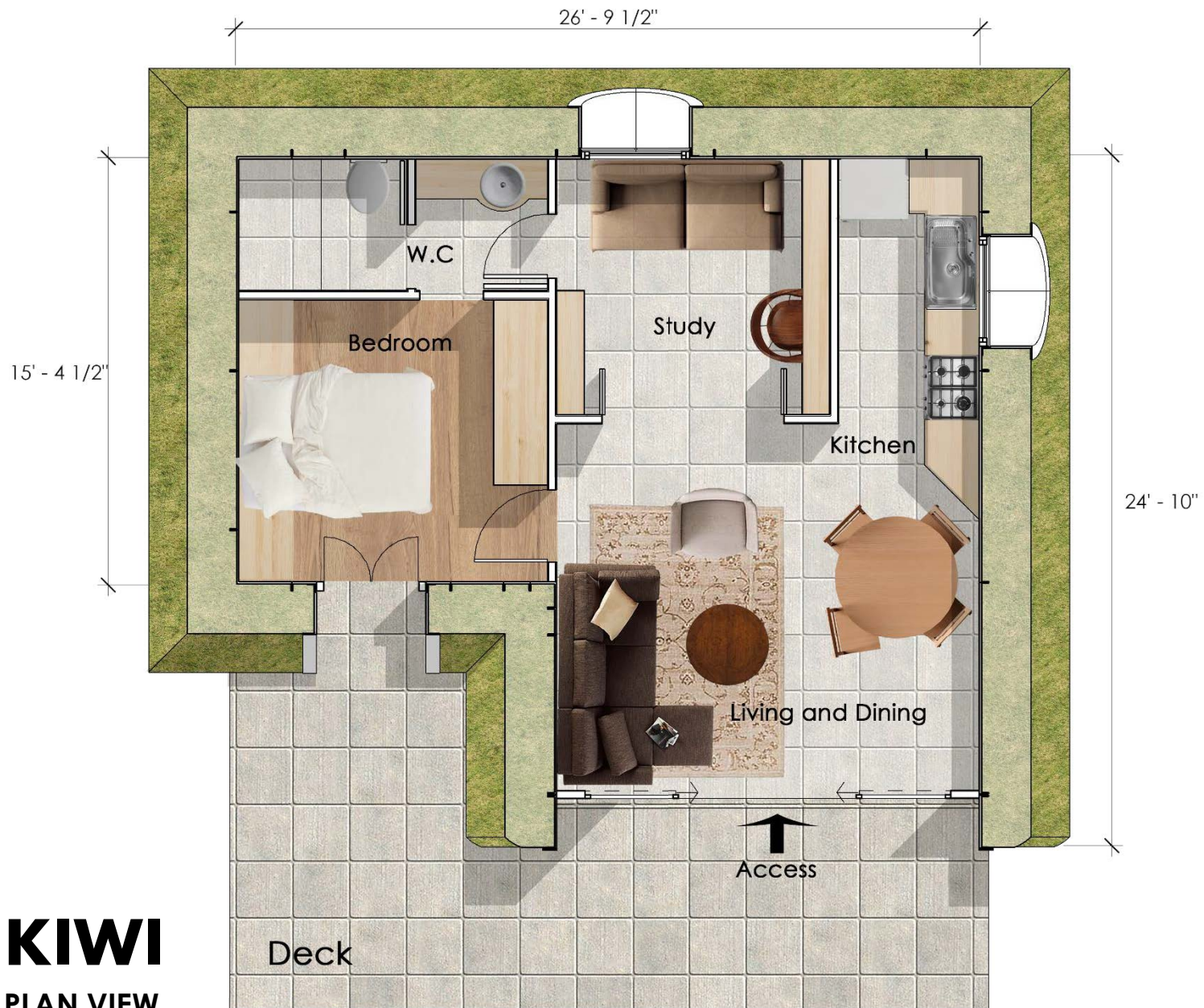
CROSS SECTION



KIWI

484 SQUARE FEET / ONE BEDROOM + STUDY





KIWI

PLAN VIEW

7/15/2018

KIWI

CROSS SECTION



NISPERO

624 SQUARE FEET – ONE BEDROOM



NISPERO

PLAN VIEW



NISPERO

CROSS SECTION



MANGOSTEEN

624 SQUARE FEET – TWO BEDROOMS



MANGOSTEEN

PLAN VIEW



MANGOSTEEN

CROSS SECTION



MANGO

1059 SQUARE FEET – TWO BEDROOMS W/ PORCHES



MANGO

PLAN VIEW



MANGO

CROSS SECTION



MACADAMIA

1250 SQUARE FEET – TWO BEDROOMS + STUDY



MACADAMIA

PLAN VIEW



MACADAMIA

CROSS SECTION



ASHER

1450 SQUARE FEET – THREE BEDROOMS



ASHER

PLAN VIEW



ASHER

CROSS SECTION



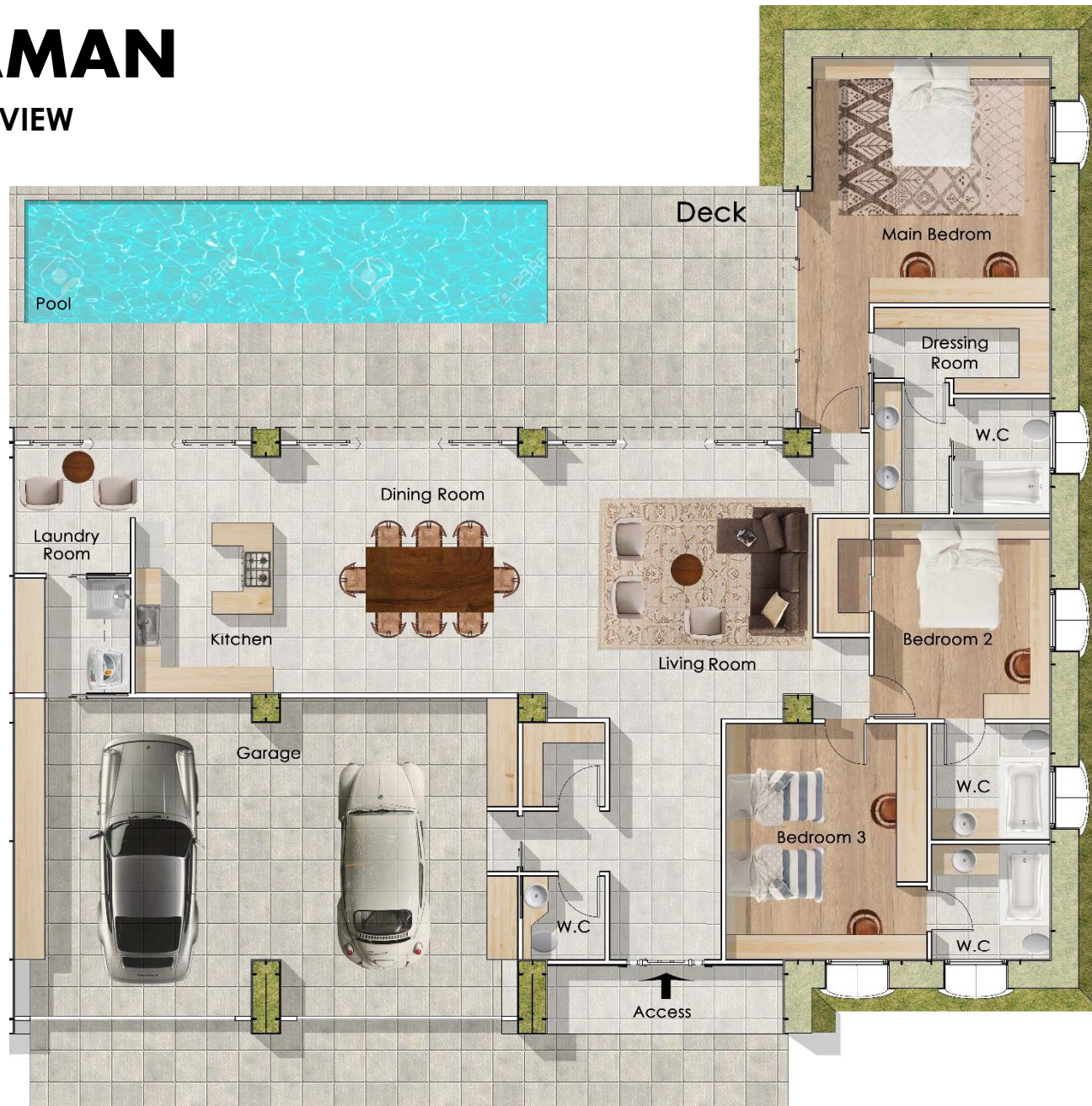
SAMAN

2900 SQUARE FEET – THREE BEDROOMS + GARAGE



SAMAN

PLAN VIEW



SAMAN

CROSS SECTION



SAMAN

CROSS SECTION



COMMERCIAL PROTOTYPES

These designs are examples of hotel and resort accommodations...



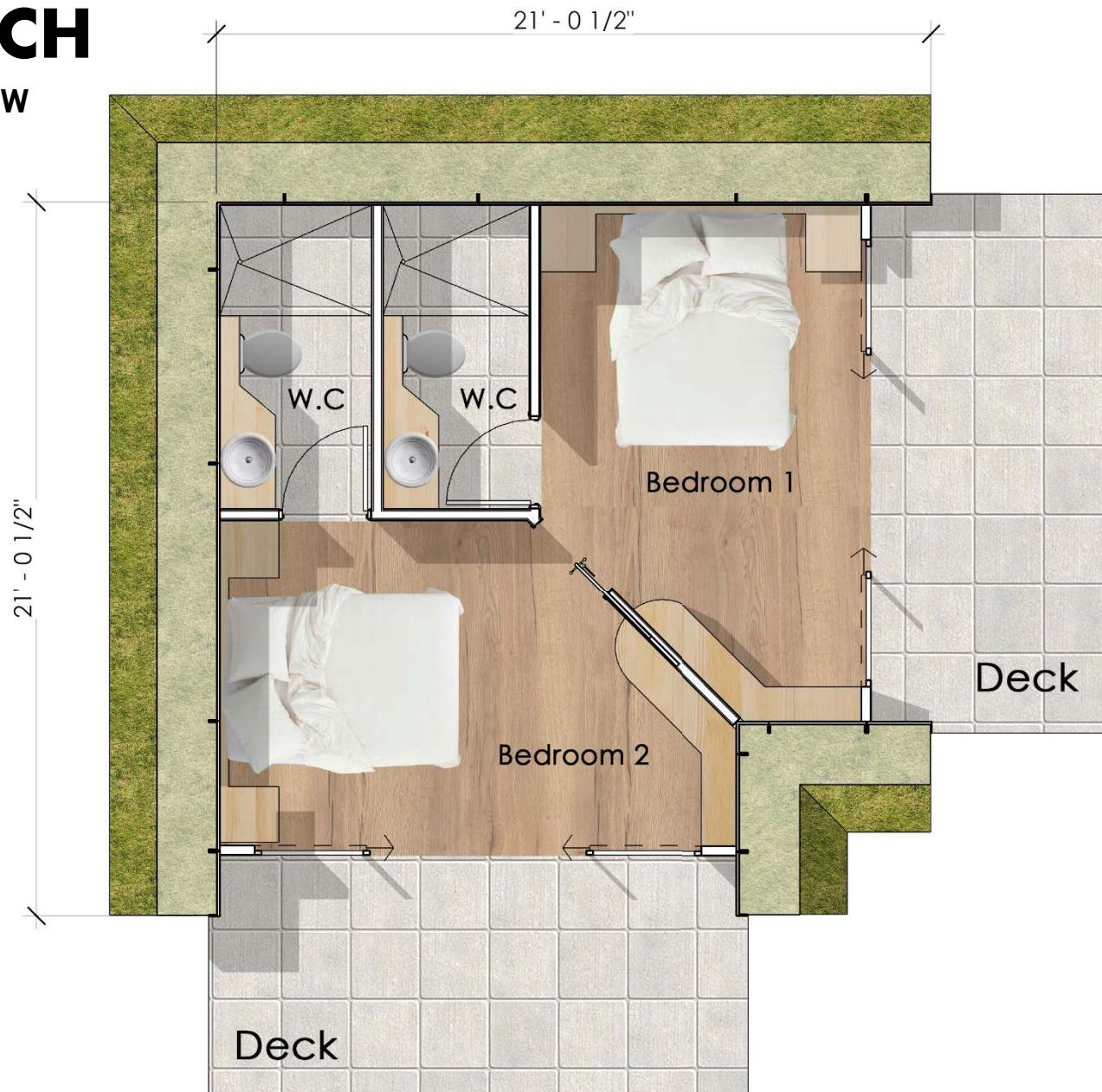
PEACH

420 SQUARE FEET – 2 BEDROOM UNIT



PEACH

PLAN VIEW



PEACH

CROSS SECTION



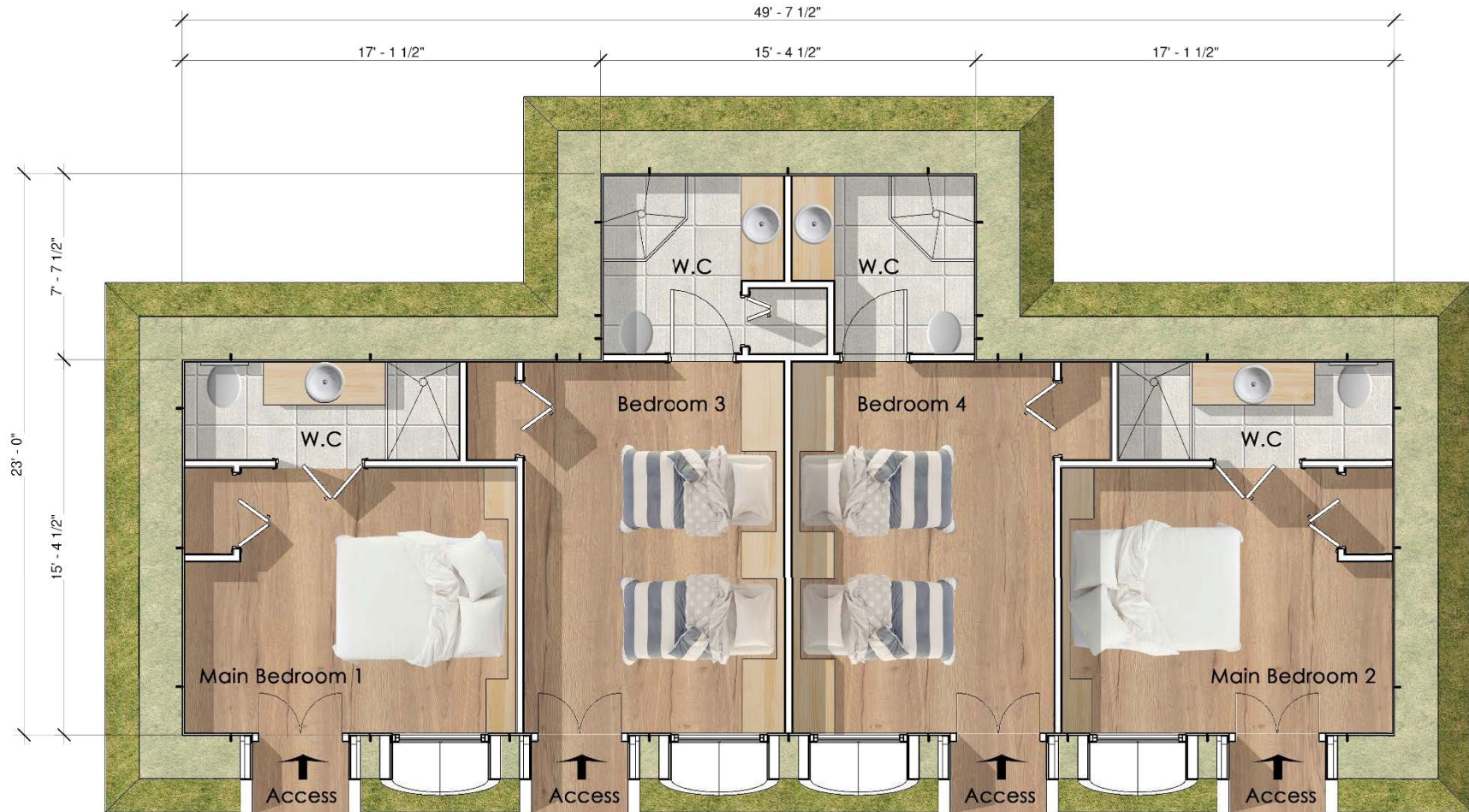
BUNGALOWS

880 SQUARE FEET – 4 BEDROOM UNIT



BUNGALOWS

PLAN VIEW



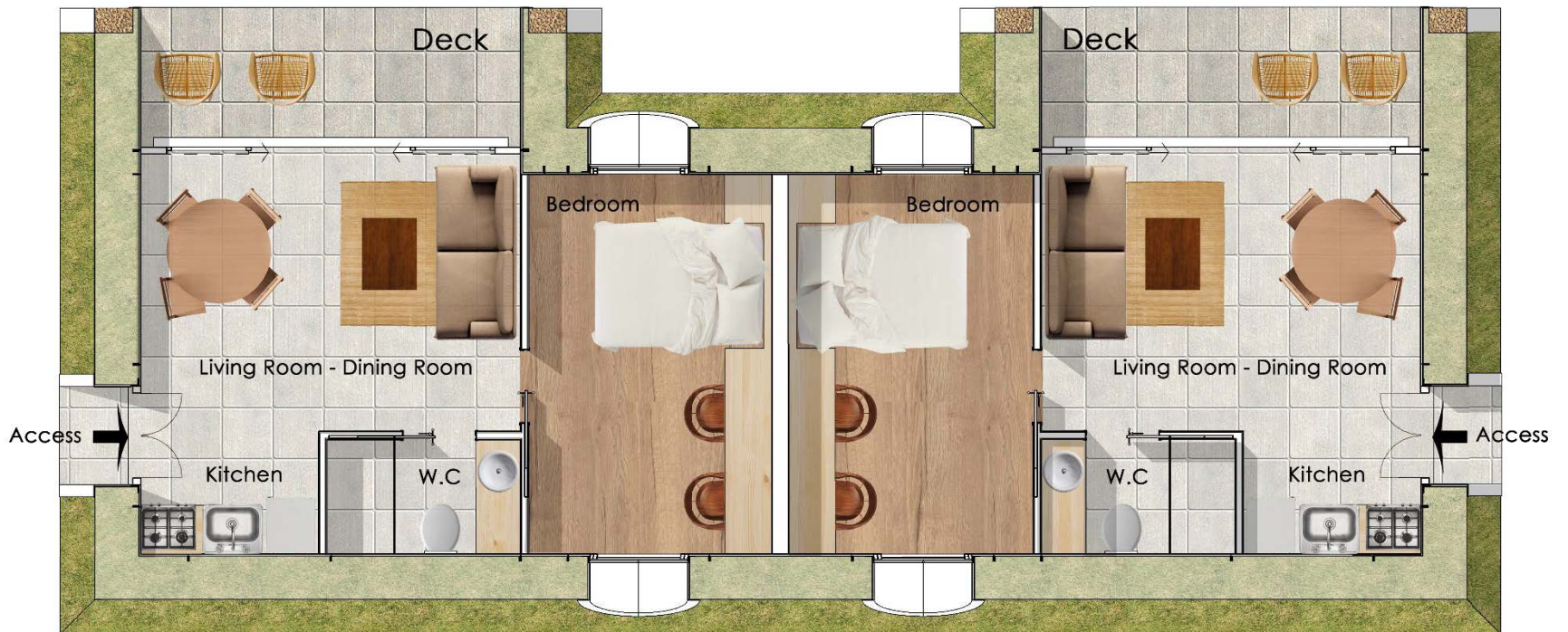
LYCHEE

1000 SQUARE FEET – 2 CABIN UNIT WITH PORCHES



LYCHEE

PLAN VIEW



LYCHEE

CROSS SECTION



OPTIONS

Garages and porches that can be used to complement any model...



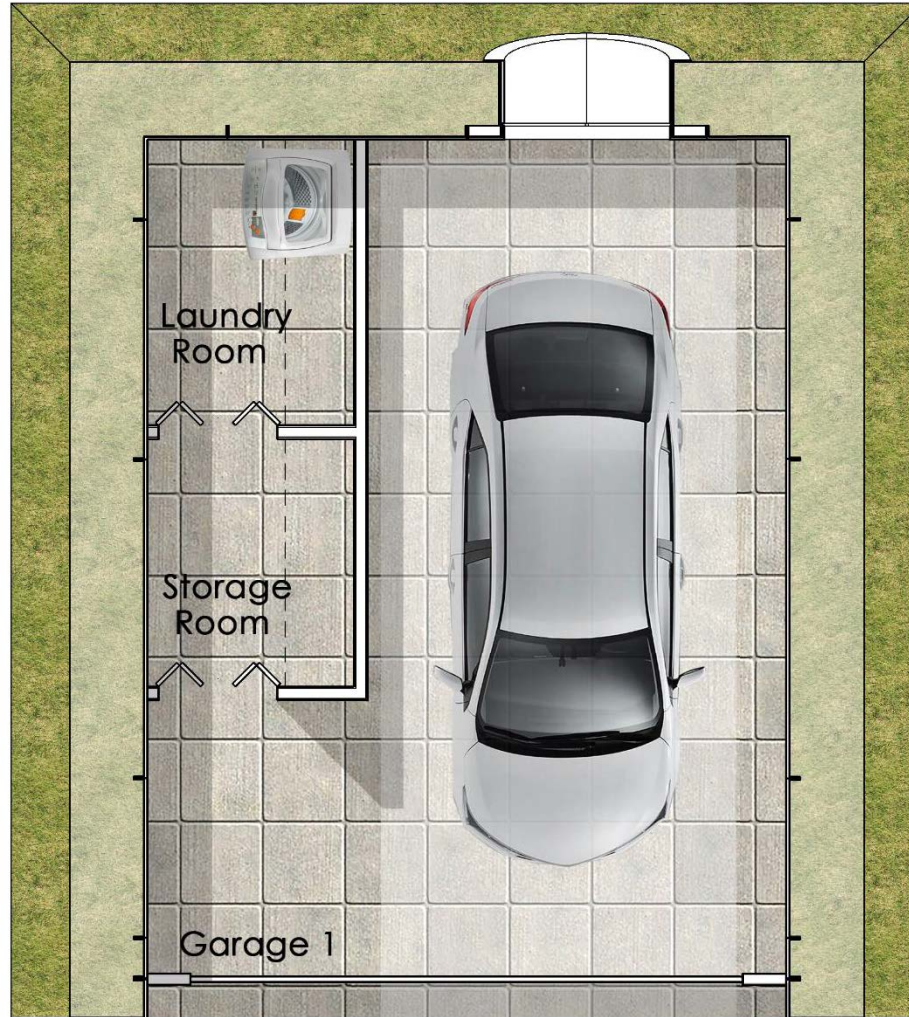
SINGLE GARAGE

338 SQUARE FEET WITH LAUNDRY AND UTILITY ROOM



SINGLE GARAGE

PLAN VIEW



SINGLE GARAGE

CROSS SECTION



DOUBLE GARAGE

696 SQUARE FEET WITH LAUNDRY AND UTILITY ROOM

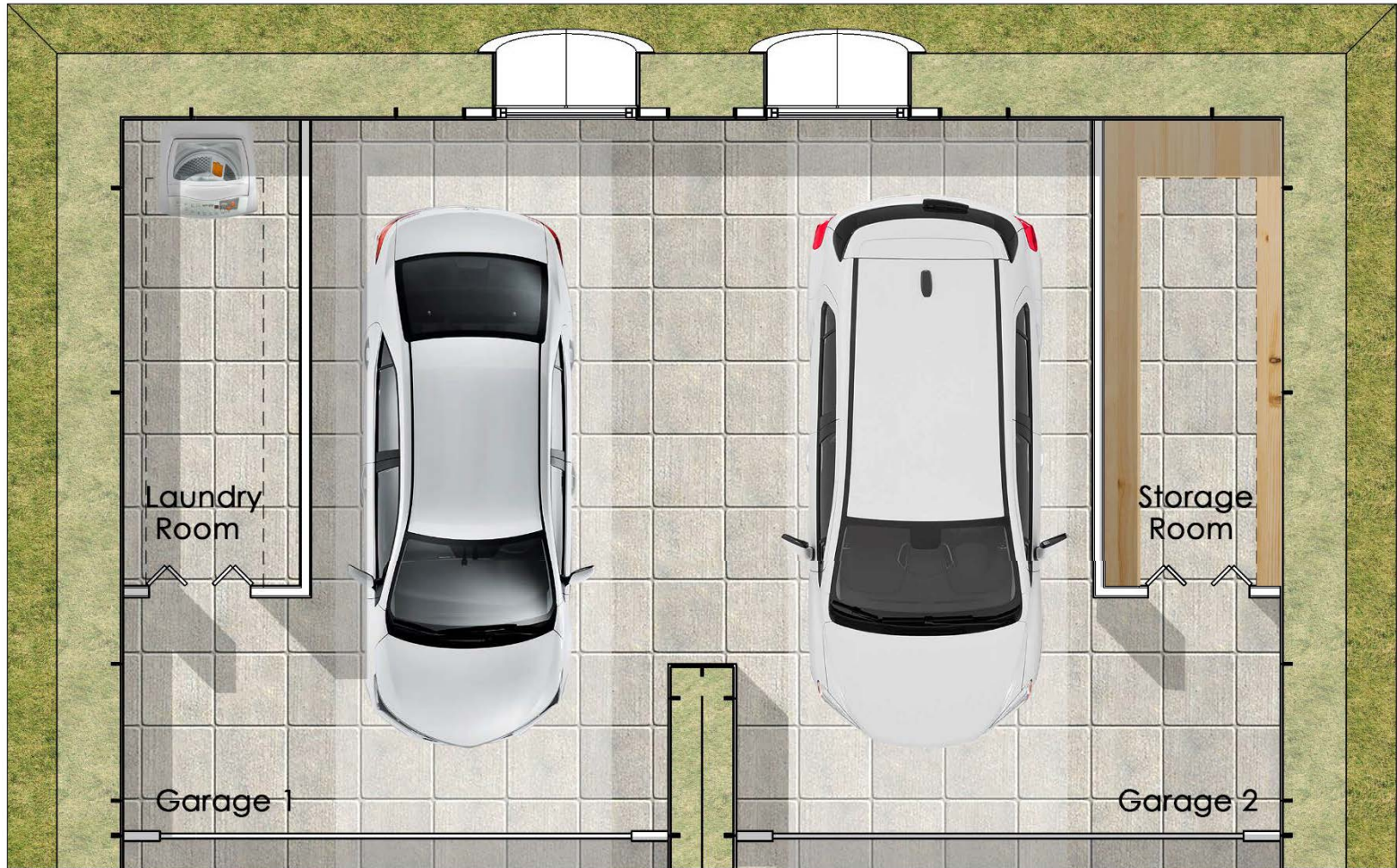


7/15/2018

52

DOUBLE GARAGE

PLAN VIEW



DOUBLE GARAGE

CROSS SECTION



COVERED PORCH MODULE

160 SQUARE FEET YOU CAN ADD TO ANY DESIGN...



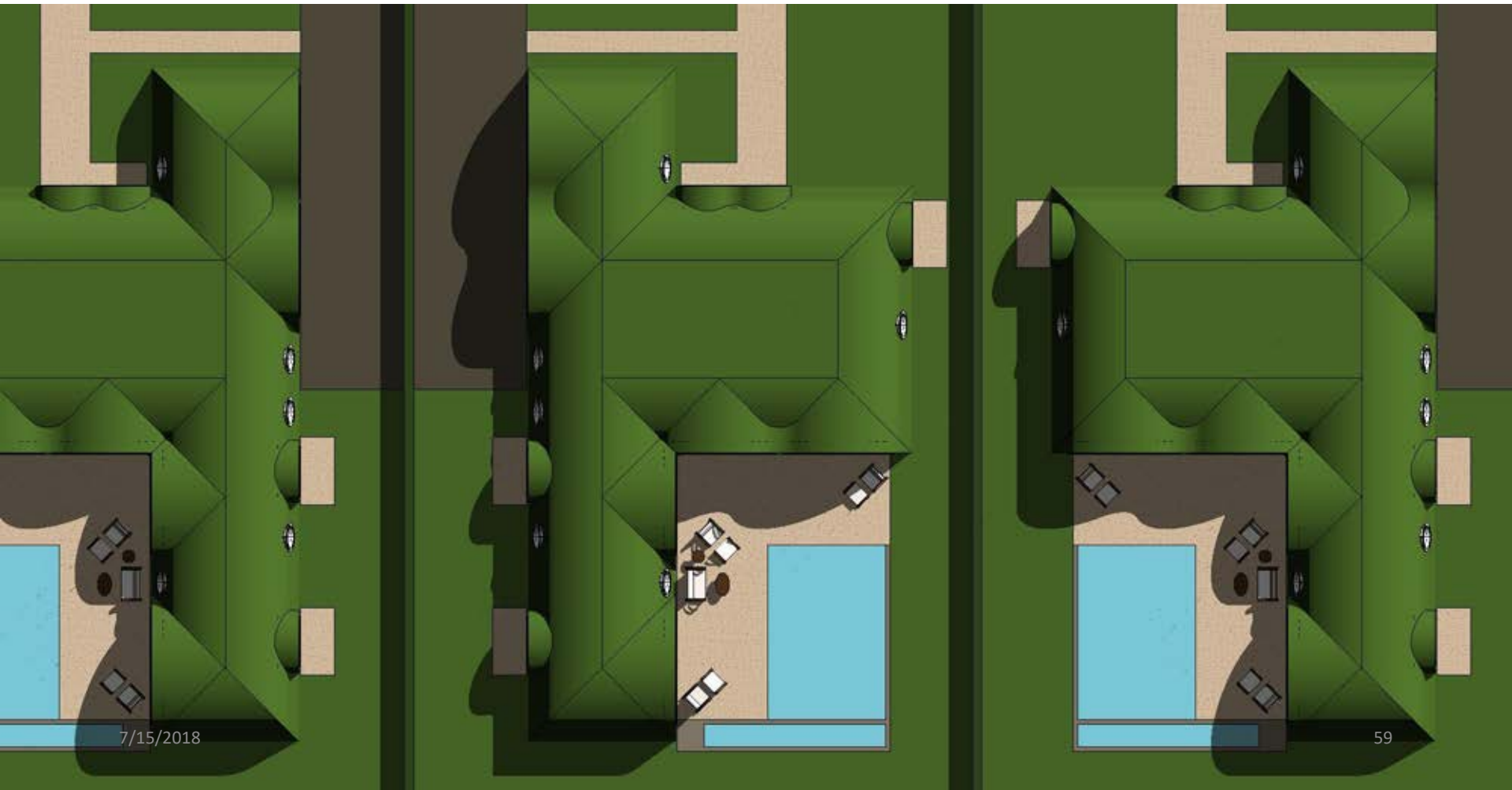
COVERED PORCH MODULE



CALL FOR PRICING

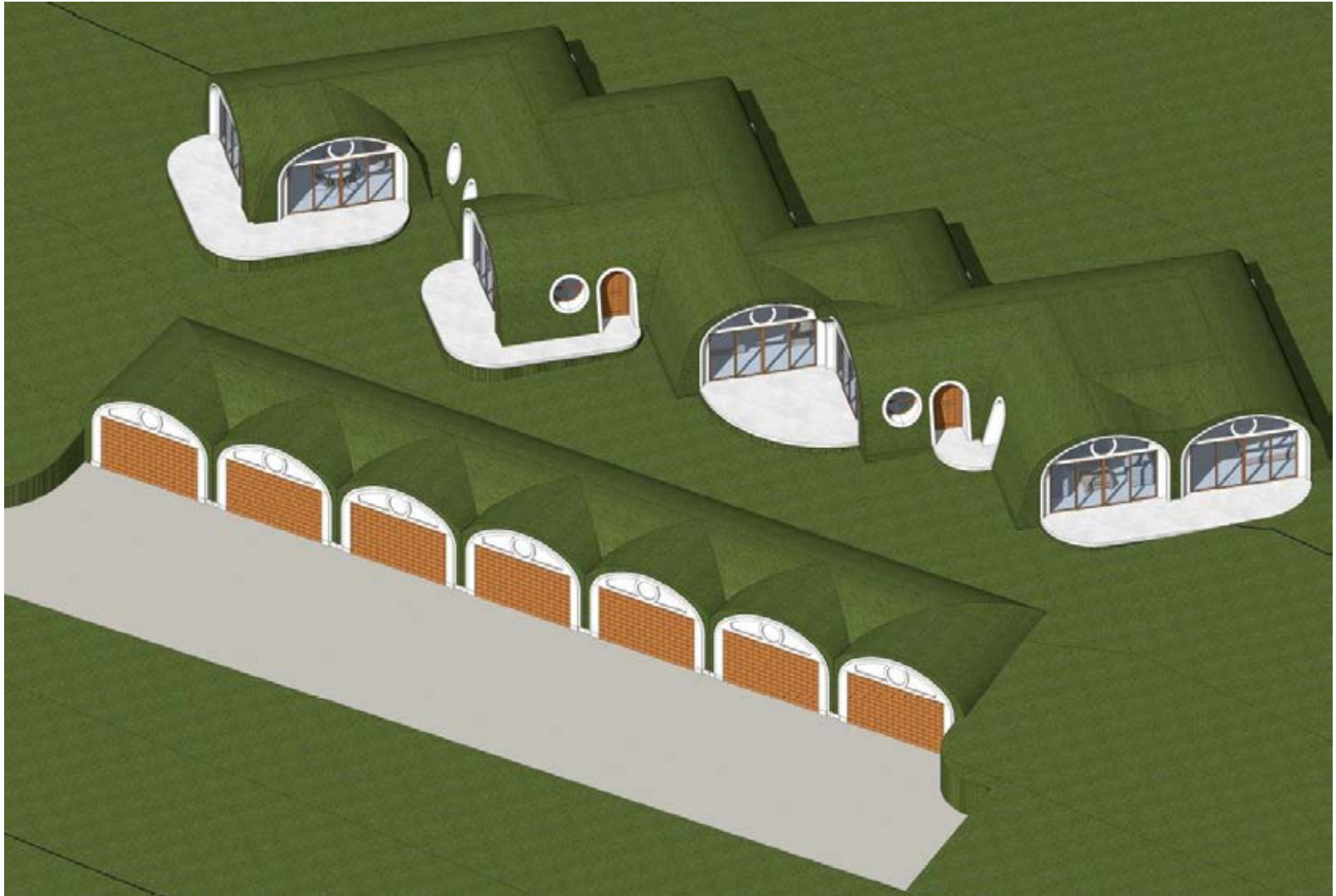
ASSORTED FLOOR PLANS...

The following is a selection of floor plans from custom designs for various projects.. Some of them will be incorporated eventually into our prototype section while others are very individualized designs.. Feel free to get ideas for your custom design or request a quote on any of these.

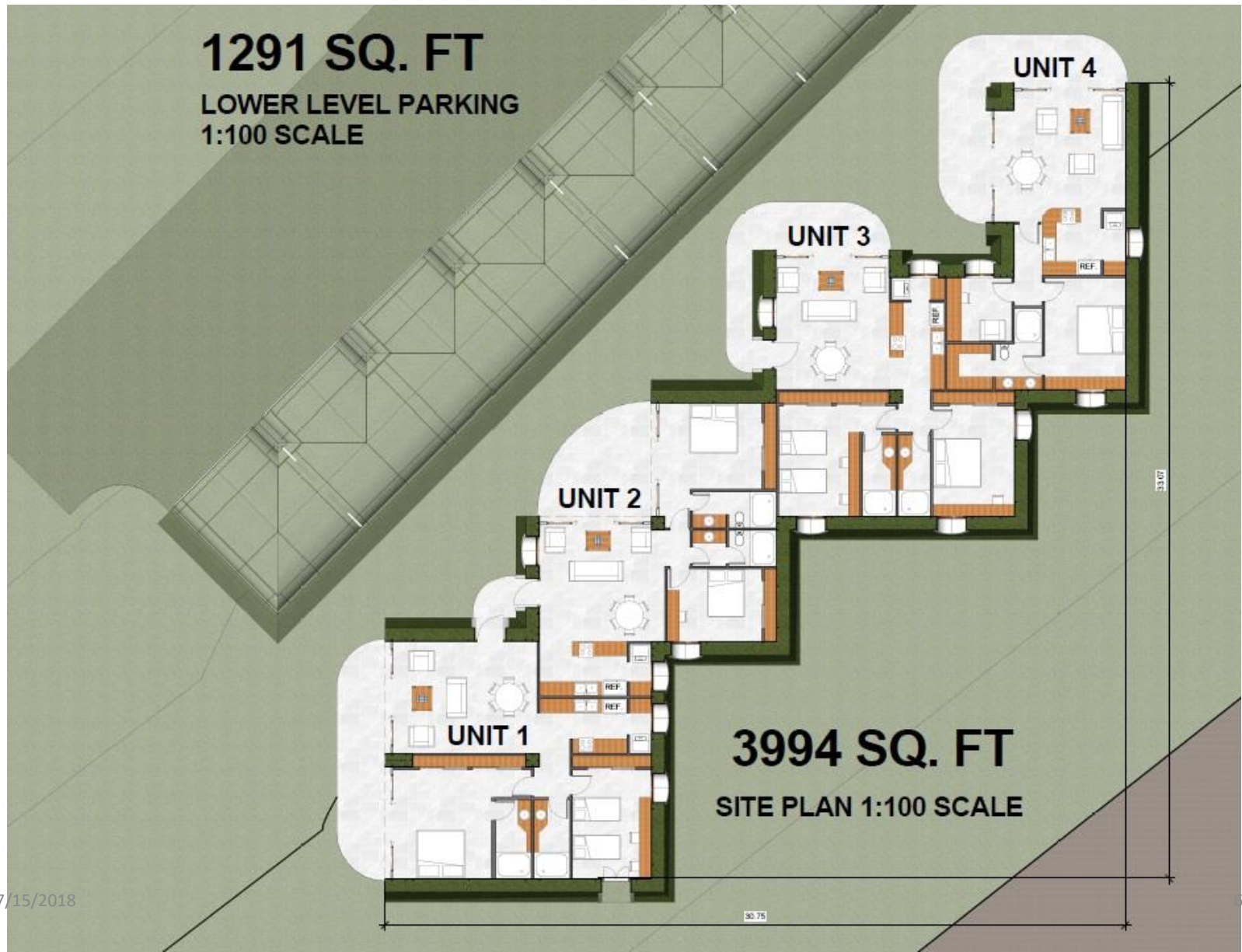


FOURPLEX

4 APARTMENT UNITS IN A ROW



FOURPLEX



TWO BEDROOM HOUSE

W/ SINGLE GARAGE



TWO BEDROOM HOUSE

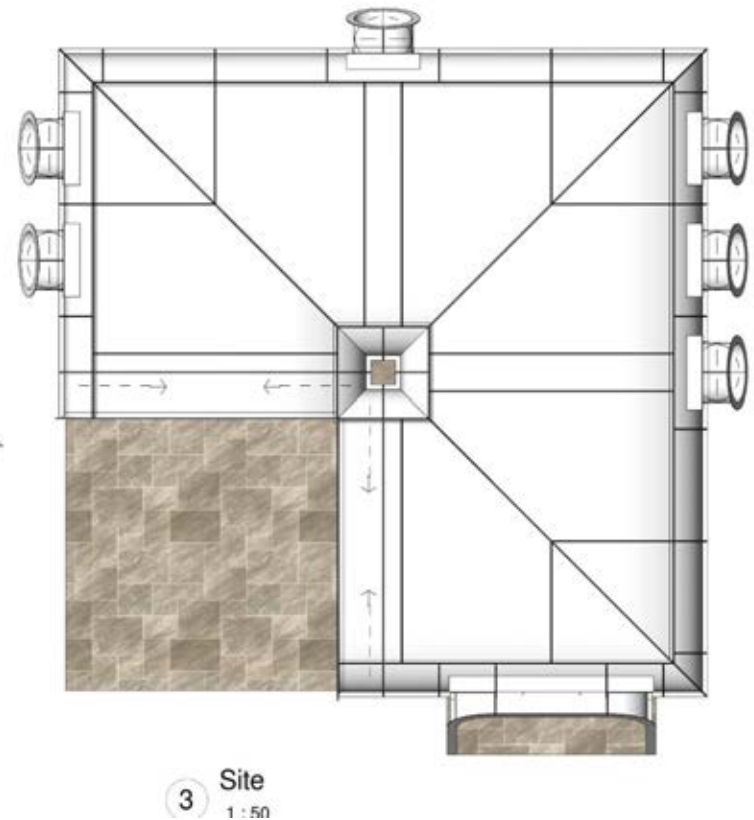
W/ SINGLE GARAGE



OFFICE - SHOWROOM



OFFICE - SHOWROOM



GYM - CLASSROOMS



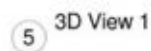
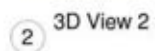
GYM - CLASSROOMS



1 Level 1
1:50



AND MORE..



* MEASUREMENTS ARE IN METERS

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[illegible]

RIVER HAVEN
2 ROOM CABIN

Project number	016
Date	08/10/2014
Drawn by	MANUEL LAGO
Checked by	Checker

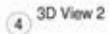
A101

Scale 1 : 50

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* MEASUREMENTS ARE IN METERS



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RIVER HAVEN

CAMP UNIT

Project number 016

Date	08/10/2014
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Order by	MANUEL LAGO
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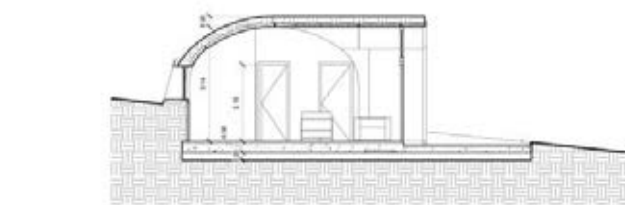
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Time 1:50

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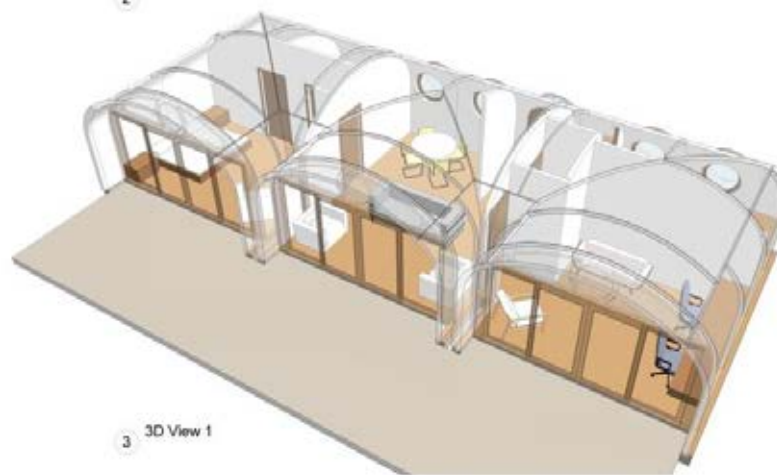
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1:50



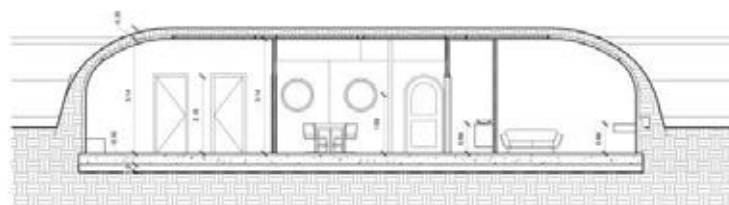
9 Section 1
1:50



2 3D View 2



3 3D View 1



7 Section 2
1:50

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[illegible]

DOMAINE DE DIESE

MAISON # 4

Project number	016
Date	08/10/2014
Drawn by	MANUEL LAGO
Checked by	Checker

A104

Scale	As indicated
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FOR MORE INFORMATION, CONTACT:

Habitats4Humans.com

781-856-3208 Cell

info@Habitats4Humans.com

