

An aerial photograph showing a wide river with a long bridge crossing it. The surrounding landscape is lush with green trees and vegetation. In the distance, a road or highway is visible winding through the landscape.

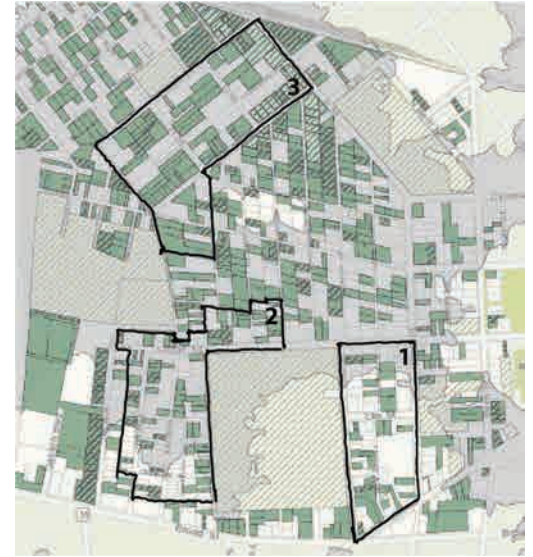
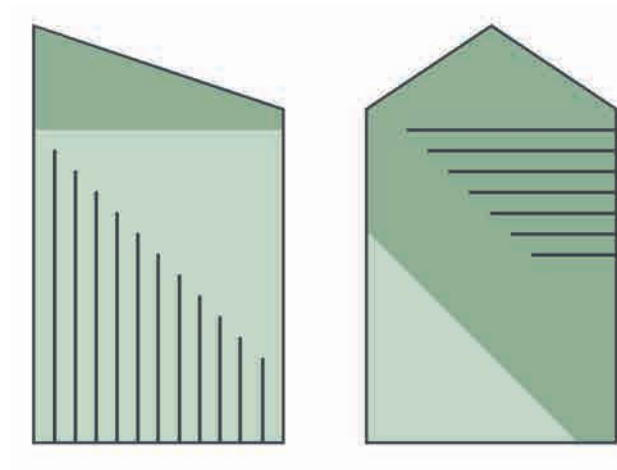
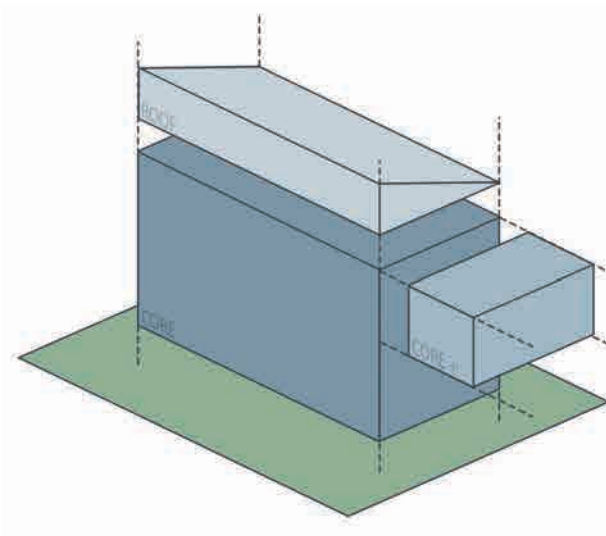
AFFORDABLE AND RESILIENT HOUSING FOR NEW BERN

Affordable Housing + Sustainable Communities Initiative | School of Architecture | NC State University

An aerial photograph of a coastal town, likely New Bern, North Carolina. The town is built on a peninsula or near a large body of water, with numerous buildings, streets, and parking lots visible. A long pier or dock extends into the water on the left side of the image.



SINGLE FAMILY INFILL
CLAYTON JOHNSON



SINGLE FAMILY

ADAPTABLE AND EXPANDABLE CORE PLAN

VARIETY OF FORM / MATERIAL / ARTICULATION

SCATTERED SITES / IN-FILL / NON-FLOOD

KEY POINTS

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



INFILL
OPPORTUNITY



Grow Community Davis Studio

PRECEDENT

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

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MATERIAL

RENDERS

CEDAR STREET

CRAVEN TERRACE

BROAD STREET

ELM STREET

QUEEN STREET

ZONE

PROJECT STATEMENT

SITE PLAN

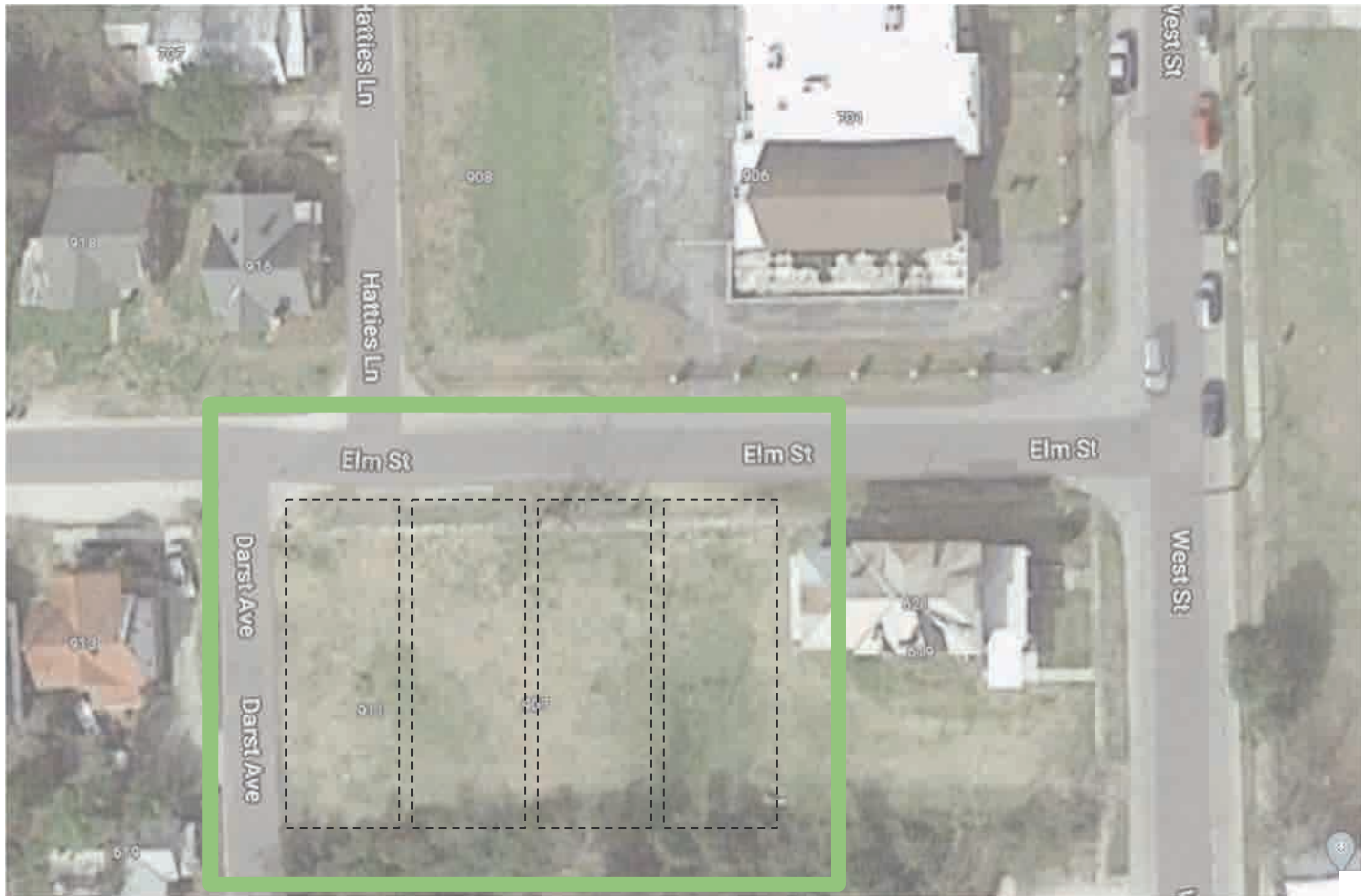
FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



STUDY SITE



2007



SITE HISTORY

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



2012



SITE HISTORY

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



2022



SITE HISTORY

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

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MATERIAL

RENDERS



ON-STREET PARKING



WALKABILITY



COMMUNITY

SITE PLAN
SCALE 1"=10'-0"



TWO LANE STREET

6' SIDEWALK

ON-STREET PARKING

3' SETBACK

HOUSE

SITE SECTION

PROJECT STATEMENT

SITE PLAN

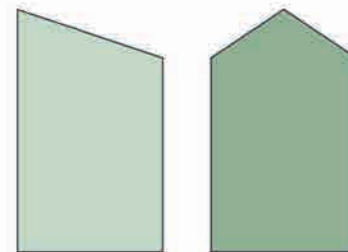
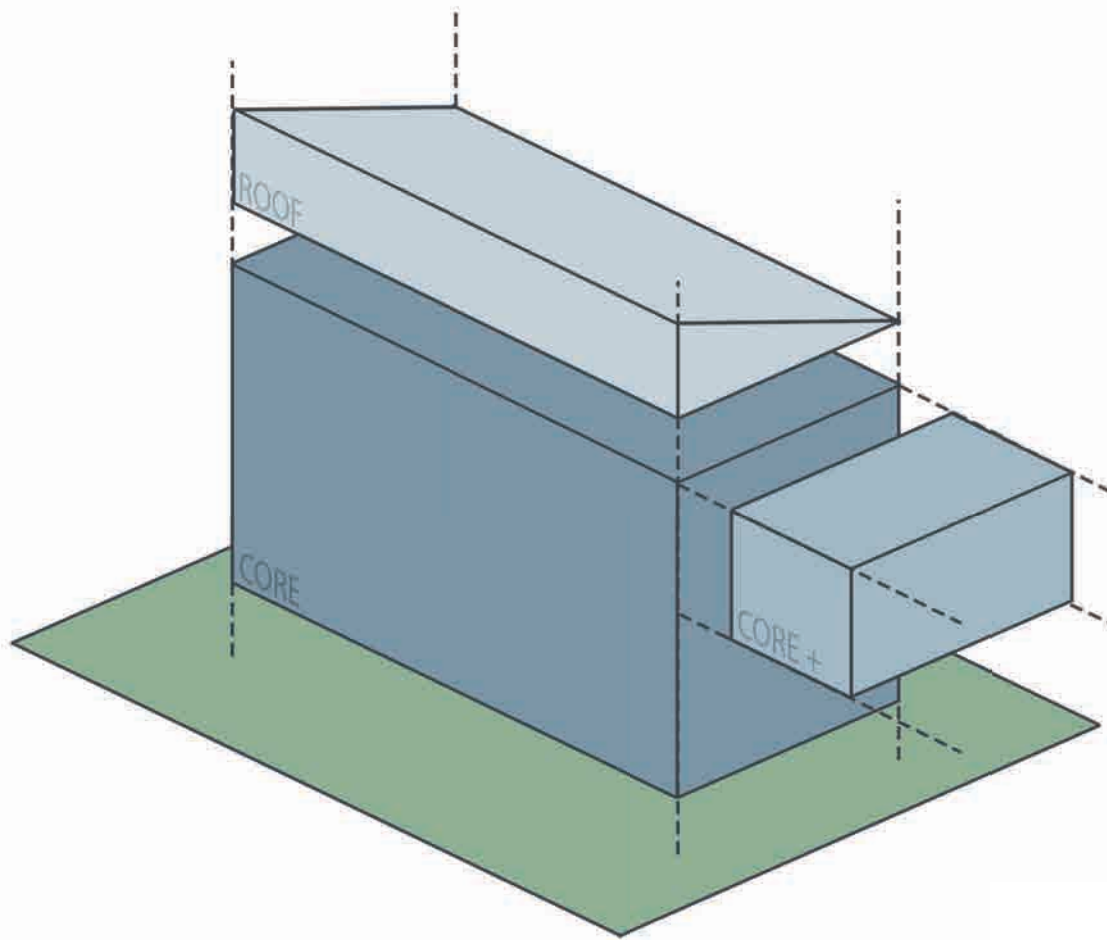
FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



ROOF FORM OPTIONS

CORE AND CORE +

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

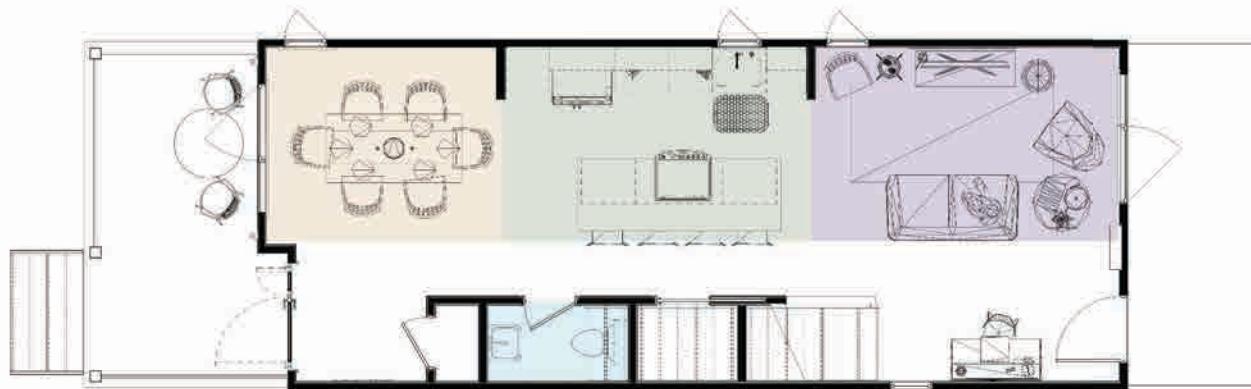
SUSTAINABILITY

MATERIAL

RENDERS



LVL 2



LVL 1

BREAKDOWN

2 BED
1.5 BATH

LVL 1: 640 SF
LVL 2: 590 SF
TOTAL: 1,230 SF



CORE PLAN

PROJECT STATEMENT

SITE PLAN

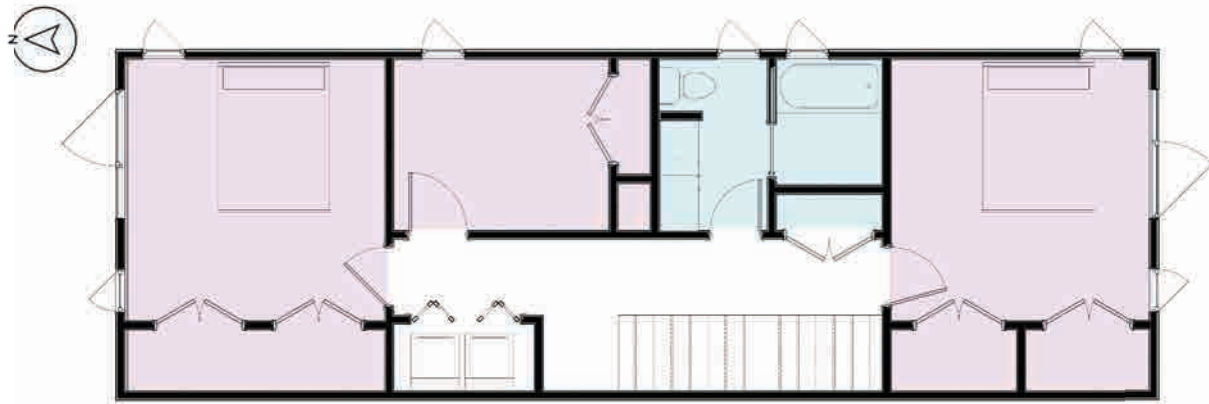
FLOOR PLAN

DESIGN

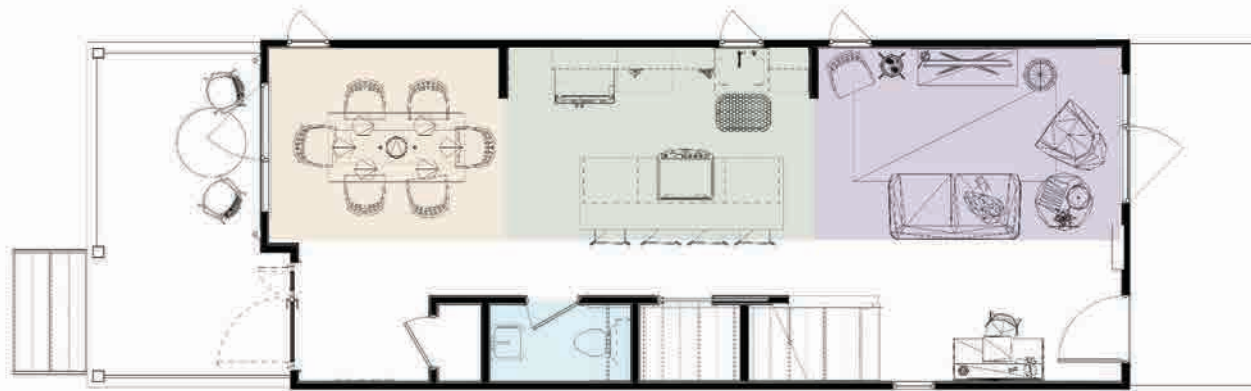
SUSTAINABILITY

MATERIAL

RENDERS



LVL 2



LVL 1

BREAKDOWN

2+ BED
1.5 BATH

LVL 1: 640 SF
LVL 2: 720 SF
TOTAL: 1,360



CORE PLAN +

PROJECT STATEMENT

SITE PLAN

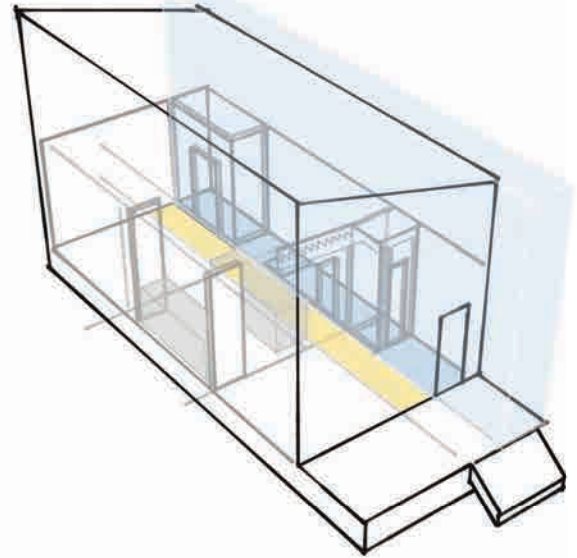
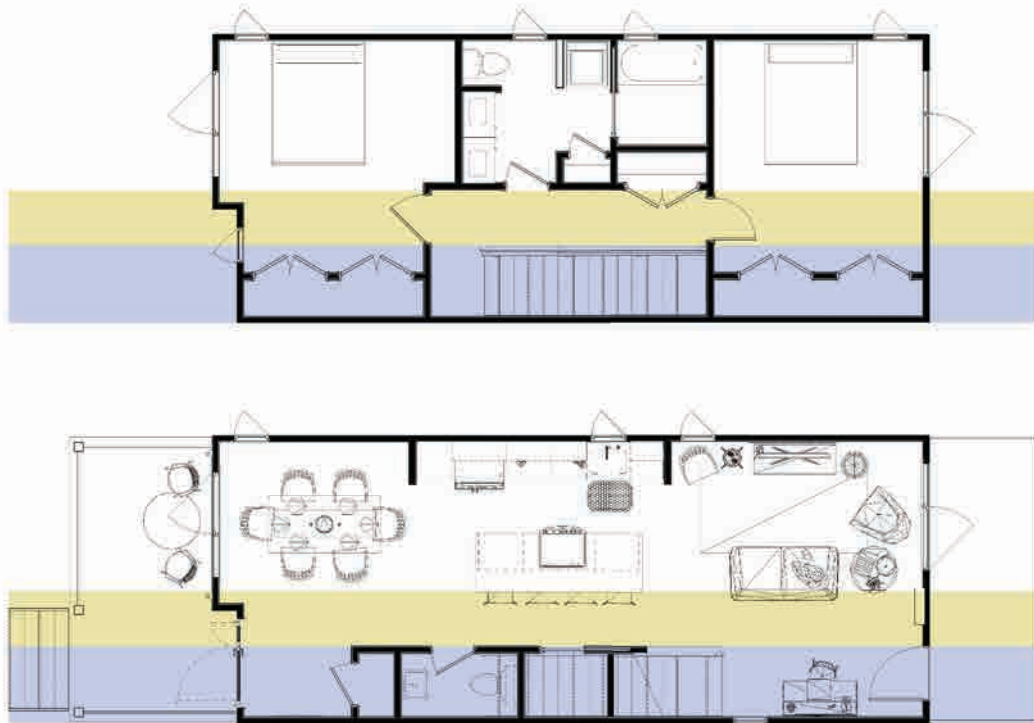
FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



CIRCULATION

PROJECT STATEMENT

SITE PLAN

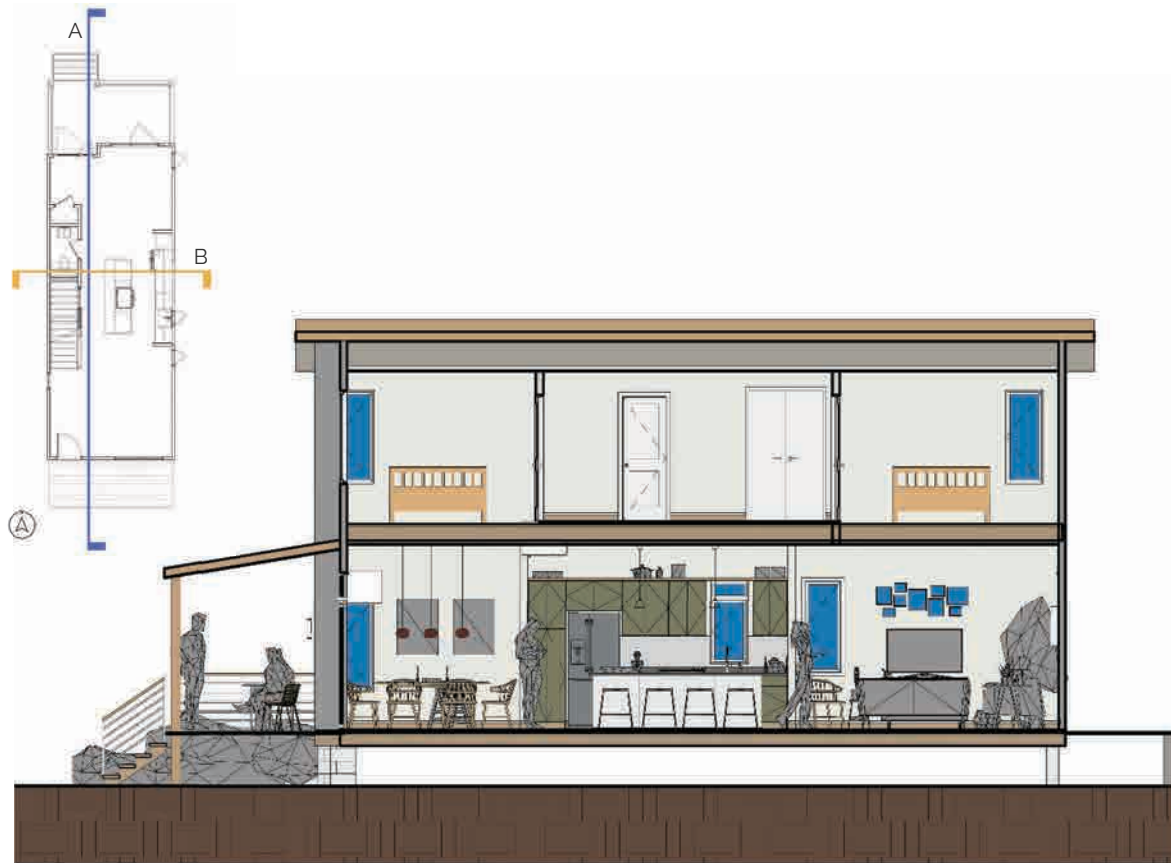
FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



SECTION A



SECTION B

BUILDING SECTION

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



- RAINWATER COLLECTION
- PASSIVE AIR CIRCULATION
- SHARED GEOTHERMAL HEATING AND COOLING
- SUSTAINABLE INSULATION
- SMART THERMOSTATS
- REFLECTIVE METAL ROOF
- DECIDUOUS TREES / NEIGHBORING HOUSE ON SOUTH, WEST, AND EAST ELEVATIONS
- OPENINGS ON NORTH AND SOUTH FACADES

SUSTAINABILITY SECTION

PROJECT STATEMENT

SITE PLAN

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RENDERS



ABOVE: FACADE CHARACTER, SCALE AND ROOF FORMS;
EXISTING NEIGHBORHOOD ROOF, EXTERIOR WALL, AND BASE COLORS/MATERIALS

EXISTING CHARACTER CONDITIONS

PROJECT STATEMENT	SITE PLAN	FLOOR PLAN	DESIGN	SUSTAINABILITY	MATERIAL	RENDERS
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EXISTING CHARACTER

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



METAL
ALUMINUM
CEMENTITIOUS PANEL
WOOD
CMU



METAL
WOOD TRIM
CEMENTITIOUS SIDING
WOOD
CMU



METAL
ALUMINUM
CEMENTITIOUS SIDING
WOOD
CMU

MATERIALITY

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



SITE SPORADIC INFILL

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



COMMUNITY CREATION INFILL

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



VIEW FROM ACROSS ELM STREET

EXTERIOR

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



SIDEWALK VIEW SHOWING
NEW STREETSCAPE WITH
OFF-STREET PARKING AND
SIDEWALK

EXTERIOR

PROJECT STATEMENT

SITE PLAN

FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



LEFT: VIEW FROM ENTRANCE AND DINING
RIGHT: VIEWS FROM AND OF LIVING AREA

INTERIOR

PROJECT STATEMENT

SITE PLAN

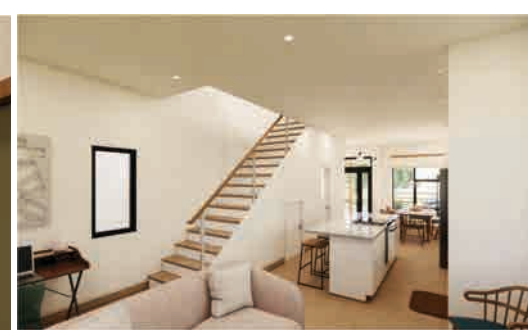
FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



LEFT: VIEW OF DINING AND FRONT PORCH
RIGHT: VIEWS FROM LIVING AREA TO STAIR

INTERIOR

PROJECT STATEMENT

SITE PLAN

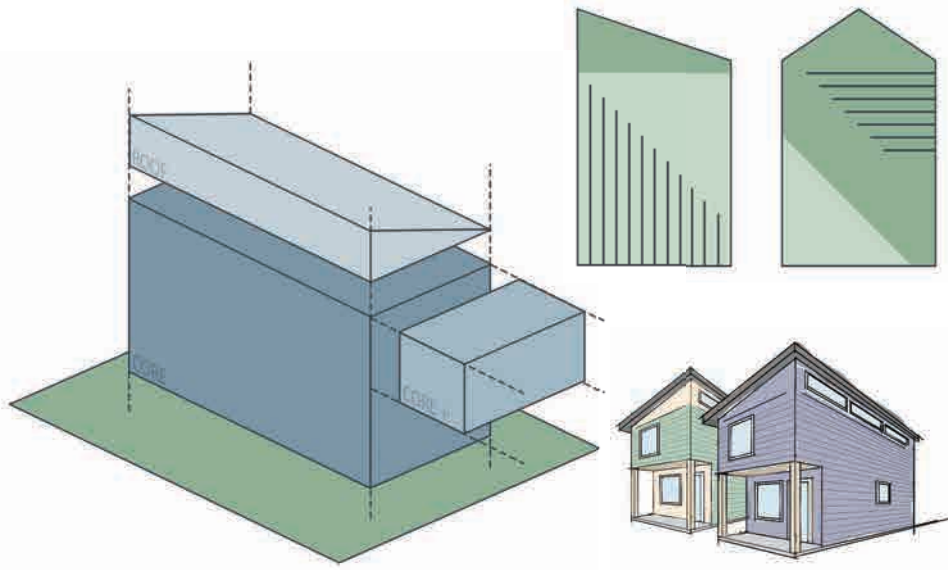
FLOOR PLAN

DESIGN

SUSTAINABILITY

MATERIAL

RENDERS



**SINGLE FAMILY
INFILL**
CLAYTON JOHNSON