

finalist 99K House Competition
winner Residential Architecture Award [RADA] 2010
winner ACSA Faculty Research and Design Award 2013
in collaboration with Brian D. Andrews - ABBA

PROJECT
99K HOUSE

TYPE
NEW CONSTRUCTION

LOCATION
HOUSTON, TX

DATE
2008
 SIZE
1824 SQ.FT.

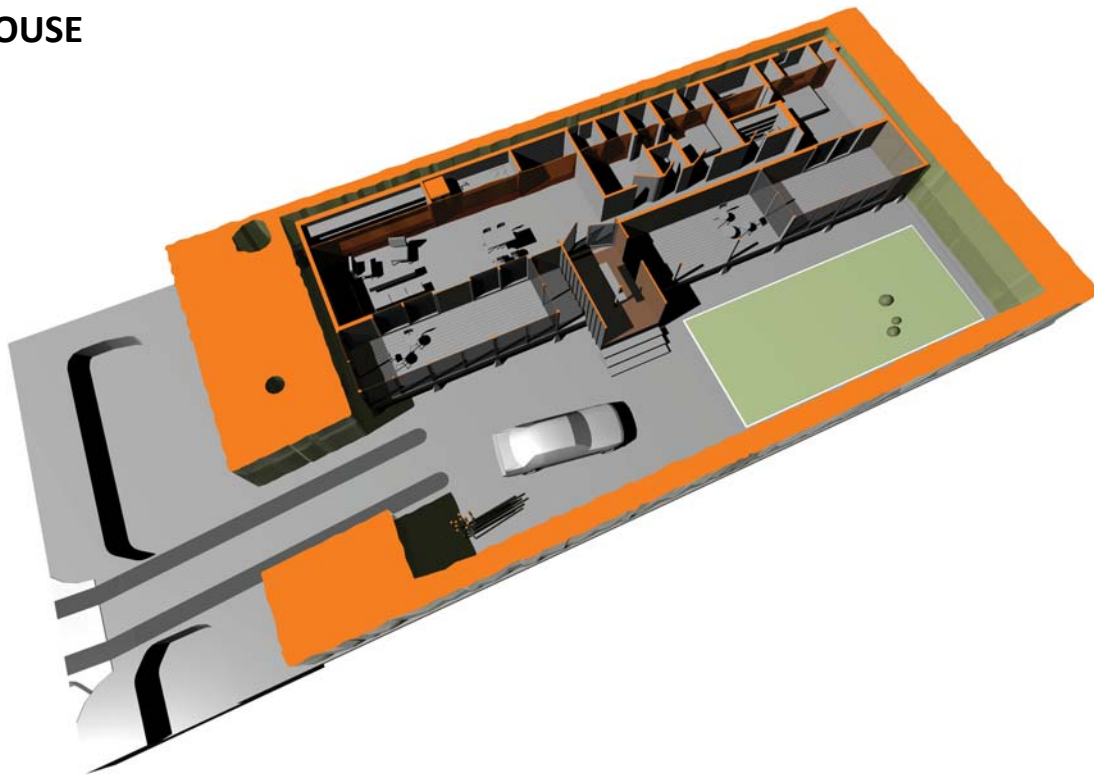
COST
\$ 99,000

This winning entry was for an international design competition challenging architects to create an innovative design for a small house that was affordable, sustainable and energy efficient. Calling for a single-family house with up to 1,400 SF, including 3 bedrooms and 2 bathrooms, on a 50' x 100' site in Houston's historic Fifth Ward, the winning design had to be adaptable to a variety of sites and have a construction budget under \$99,000. The successful competitor had to use sustainable building practices and materials with a special concern for affordability, longevity, energy savings benefits, and appropriateness for the hot, humid Houston climate.

Designing with as many energy-efficient standards as possible, this submission used the fewest resources (labor and materials) to achieve the highest design impact. The house balances innovation and simple historical principles deriving its form from a hybrid of regional typologies of the Shotgun House and the Charleston Single House.

Through a series of efficient but celebratory moves House 99 maximizes the minimum.

PROJECT
99K HOUSE



SECTIONAL PLAN

HOUSE FROM SIDE YARD



VIEW OF SIDE COURT





VIEW OF SCUPPER AND CISTERN

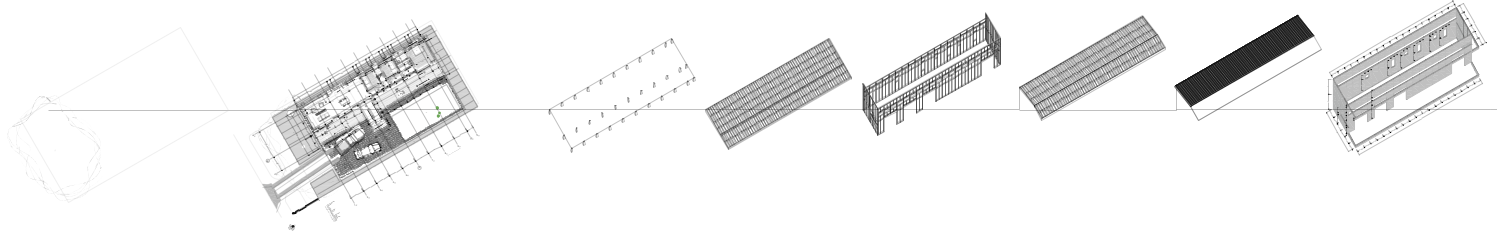
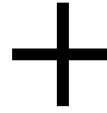
CORNER SECTION LIVING AREA AND ENTRY



SECTIONAL SPLAY CUT



EXISTING



SITE

MODULAR PLANNING
RECYCLABLE SUSTAINABLE MATERIALS
PERMEABLE GROUNDPLANE
PRESERVED VEGETATION + CONTOURS

MINIMAL PRECAST FOUNDATION

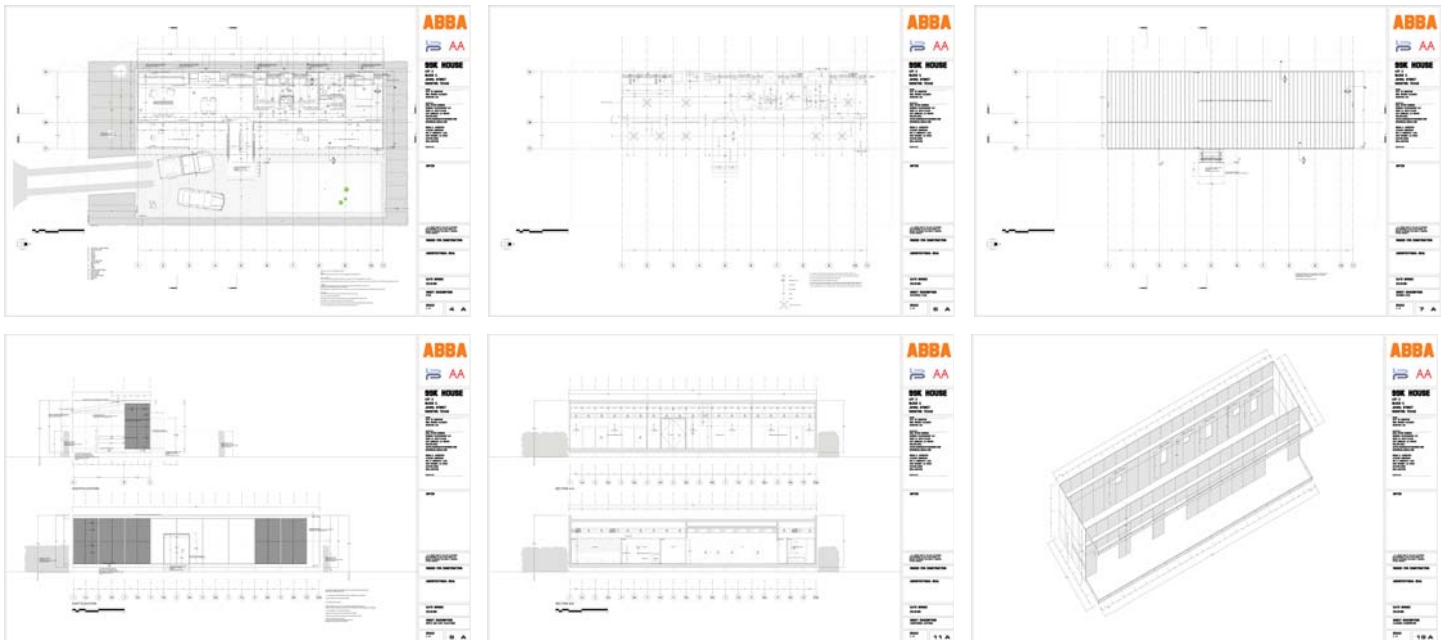
MODULAR RENEWABLE WOOD CONSTRUCTION

METAL ROOF
MODULAR [NOT CUT]
REUSABLE AND RECYCLABLE

CEMENTITIOUS FIBER BOARD
MODULAR [NOT CUT]
REUSABLE AND RECYCLABLE

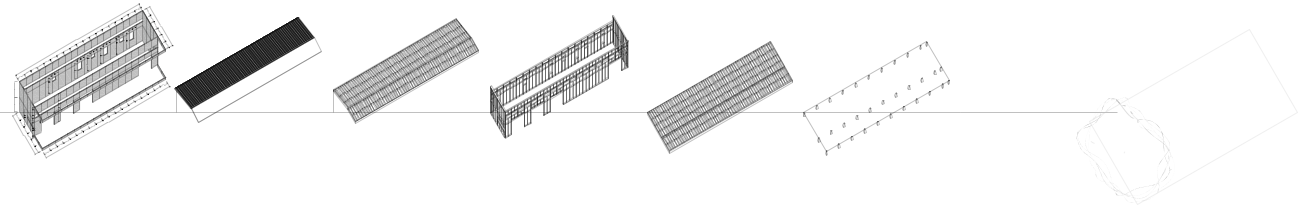
BUILDING LIFECYCLE

SELECT OPTIMIZING CONSTRUCTION DRAWINGS



USE

RETURN



SUSTAINABLE USE
SOCIAALLY RESPONSIBLE
ENERGY EFFICIENT
AFFORDABLE - 99K
DURABLE CONSTRUCTION

DEMOUNTABLE
REUSABLE OR
RECYCLABLE PANELS

DEMOUNTABLE METAL ROOF
MODULAR (NOT CUT)
REUSABLE AND RECYCLABLE

MODULAR RENEWABLE WOOD CONSTRUCTION
DEMOUNTABLE REUSABLE/RECYCLABLE

REUSABLE PRECAST FOUNDATIONS OR
RECYCLABLE FOR CMU AGGREGATE

SITE RETURNED TO UNTOUCHED STATE

ENTRY TUBE



CHARLESTON STYLE SIDE YARD



SCUPPER



STREET ELEVATION

