Size DOES Matter: The Small (Tiny) House Movement SCAPA Fall Conference October 16, 2014

Photo credit Tumbleweed Tiny Houses



Today's Tiny House Tour

• The Small (Tiny) House Phenomenon

- Definition
- History / Similar Movements
- Reasons to "Go Tiny"
- Current Phenomenon

• Details / Regulations / Future Planning Tall Tales and Tiny Fictions

Stories from a tiny house builder Open Discussion

• Q & A with a tiny house owner/builder

"Any intelligent fool can make things bigger, more complex, and more violent. It takes a touch of genius - and a lot of courage - to move in the opposite direction." – E.F. Schumacker

"Have nothing in your houses that you do not know to be useful or believe to be beautiful." - William Morris

The Small (Tiny) House Phenomenon

The Movement

- Typical American home is around 2,100 sf •
- Typical small/tiny house is around 100-400 sf •



Credit: Small is Beautiful – A Tiny House Film by Jeremy Beasley



In 1973, the average size of new houses in the U.S. was 1,525 square feet

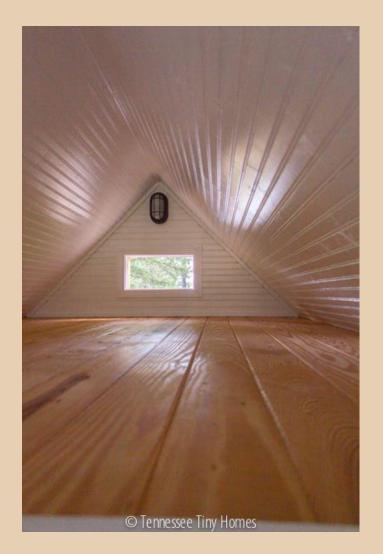
Graphic credit Custom Made

In 2013, the average size of new houses in the U.S. was 2,100 square feet

The Movement

- Social movement where people are downsizing the space that they live in •
- Growing in popularity, with more people choosing to trade space for • simplicity
- People editing their lives to make them more simple and happy •
- Benefits include: •

reduced costs, more free time, simpler lifestyle & reduced environmental impact, social consciousness





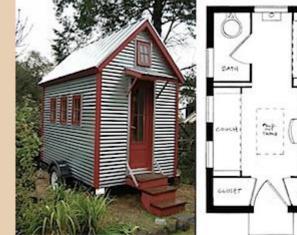


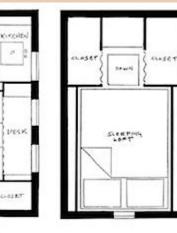
The Movement

- Tiny Houses come in all shapes, sizes and forms:
 - smaller spaces/simplified living
 - emphasize design over size
 - dual purpose features
 - multi-functional furniture
 - space saving equipment and appliances
 - vertical space optimization

















Types

- Permanent (on foundation)
- Mobile (on wheels) ullet
- Recycled shipping container •
- Yurt







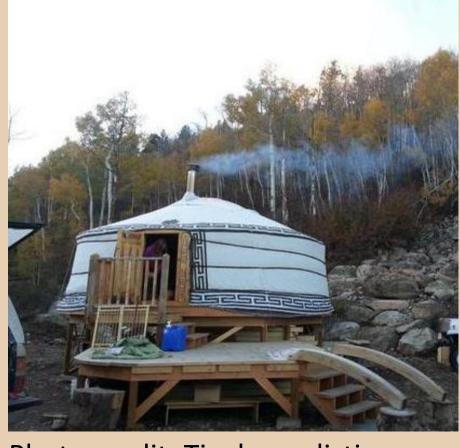




Photo credit: Valley View Tiny House Company

Photo credit: Tinyhouselistings

Additional Uses

- •In addition to primary dwelling, can also be :
 - additional housing for aging relatives
 - additional housing for returning children
 - home office
 - studio
 - guest house
 - vacation home
 - multiple tiny homes in different places vs. one big home in one place



Student housing by **Tengbom Architects**



Photo credit: CustomMade



Vacation home in Hawaii **TinyHouseOnThePrairie**/Airbnb

A few examples...







196 sf in Idaho Siding from recycled pallet wood

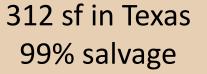
392 sf in Wisconsin

110 sf in Tennessee \$1,200





204 sf in Tennessee



Photos credit: redbookmag.com



250 sf in Maryland At ecotourism retreat



325 sf in Florida Built to withstand hurricane winds

Every house has a history...



Although popular in recent years, the tiny house movement is not new...

- Nomadic ancestors: tiny, mobile homes • designed to be packed up, moved and erected in a new place
 - •Mongolian yurt: lattice of thin flexible wood, covered with canvas and furs; dismantled and moved quickly
 - •In North America, the Tipi was the Native American's answer to the Eastern yurt



Traditional Mongolian yurt



Native American tipi

credit: tiny house talk

- 1500s-1800s: Gypsy wagons in Europe
 - often unwelcome
 - 1500s in England: being a gypsy a crime
 - 1885-95: unsuccessful attempt to introduce Moveable Dwelling Bills in Parliament to regulate gypsy life
- 1800s: more city-centric tiny houses emerge (one shown built in 1830, 7' wide x 36' long)
- 1830s-1920s: New Orleans shotgun houses
 - For narrow lots
 - Allows cross-ventilation

credit: tiny house talk



Gypsy wagons

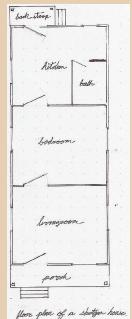




Tiny house in Virginia, then & now



Shotgun houses



WALDEN:

IN THE WOODS

IENRY D. THOREAU

OR AND FIELDS

- Henry David Thoreau
- 1840s
- 10' x 15' cabin on Walden
 Pond as experiment in simple living
- Wrote "Walden", a book on living simply in natural surroundings

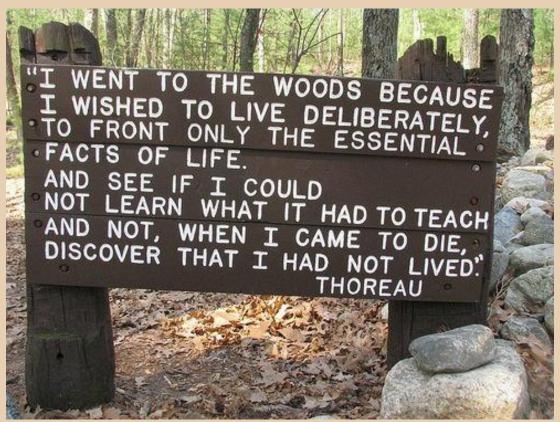
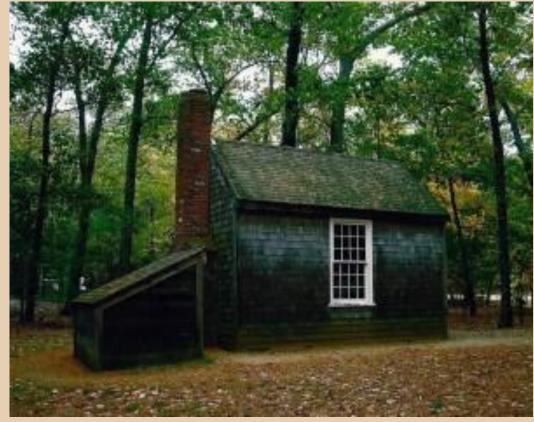




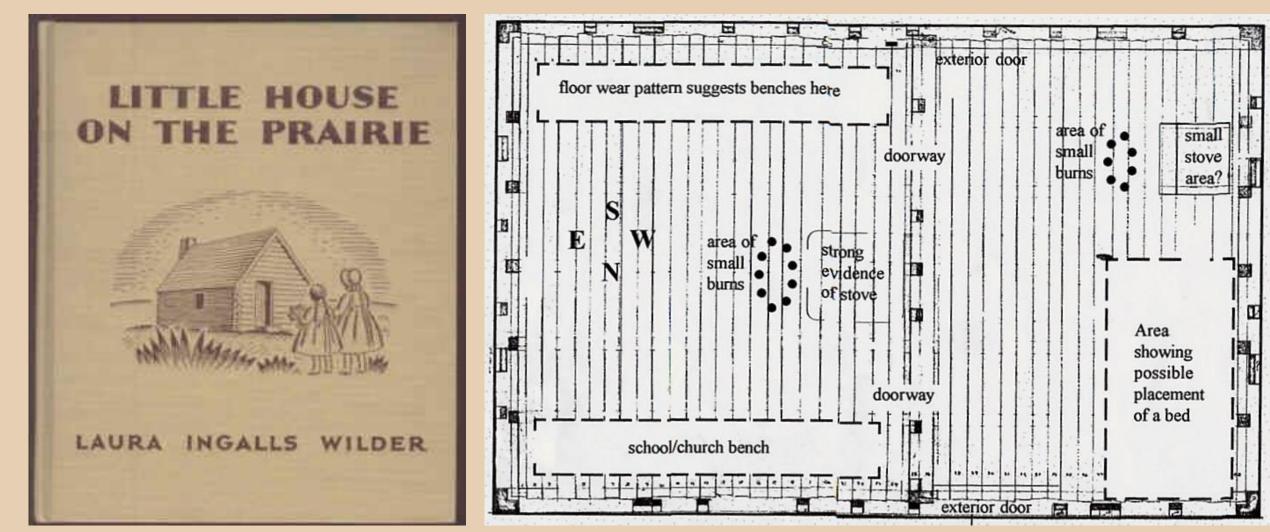


Photo credit: mstanton/flickr; garylerude/flickr; chrisdevers/flickr; Benjamin D. Maxham



- The Original "Little House"
- One room cabin





- 1970's: Matti Suuronen's Venturo House
 - unusual form and pre-fabricated technology
 - broad windows & very few walls = very open

- 1979: Micheal Jantzen's Autonomous House
 self sufficient home
 - self-sufficient home
 - composting toilet, fold-away shower, greywater filtration, alcohol stove, solar power
 - Made from 2 halves of a silo top
 - on a trailer

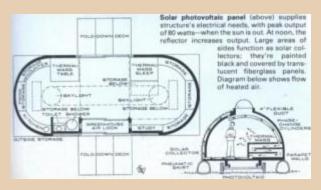


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Venturo House





Autonomous House

credit: tiny house talk

Influential Movements



American Craftsman Style (Arts & Crafts Movement)

- Late 19th century 1930s
- Design and arts movement •
- Reaction against Industrial Revolution
- Values handwork over massproduction
- Good design = simplicity, natural materials, and craftmanship
- Exposed structural elements
- Mass
- Broad eaves





Bungalows Photo credit: arts-crafts.com

Gamble House by Greene & Greene

The Not So Big House

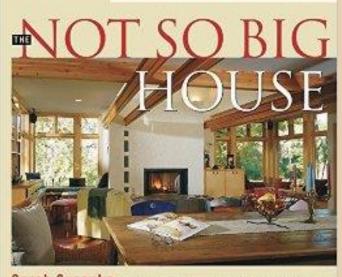
- By architect Sarah Susanka in 1998 •
- Inspired by A Pattern Language by • Christopher Alexander
- Movement toward smaller houses •
- "Build Better, Not Bigger" •
- Quality over Quantity •
- Design Language to make interior feel • comfortable and more spacious.
 - framed openings (windows, doors, or doorways that are framed or nested in certain ways)
 - spatial layering
 - visual weight
 - diagonal views
 - •variations in ceiling height



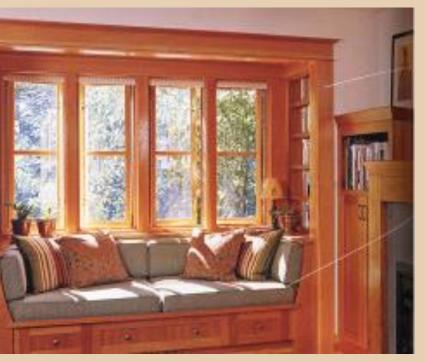


Christopher Alexander Sara Ishikawa · Murray Silverstein Max Jacobson • Ingrid Fiksdahl-King Shlomo Angel

A Blueprint for the Way We Really Live



Sarah Susanka author of the best-selling Greating the Ket So Kip





Small House Movement

- Architectural and Social Movement that advocates living simply in small homes
- Ross Chapin's Third Street Cottages
 - Small, sustainable, community oriented
 - "pocket neighborhoods"
 - •600-650 sf
 - 8 cottages on a 2/3 acre plot
 - Houses surround a "green" area for seating, green space, and garden
 - Community shares tool shed and meeting room
 - Houses sold as condominiums, monthly fees help maintain garden







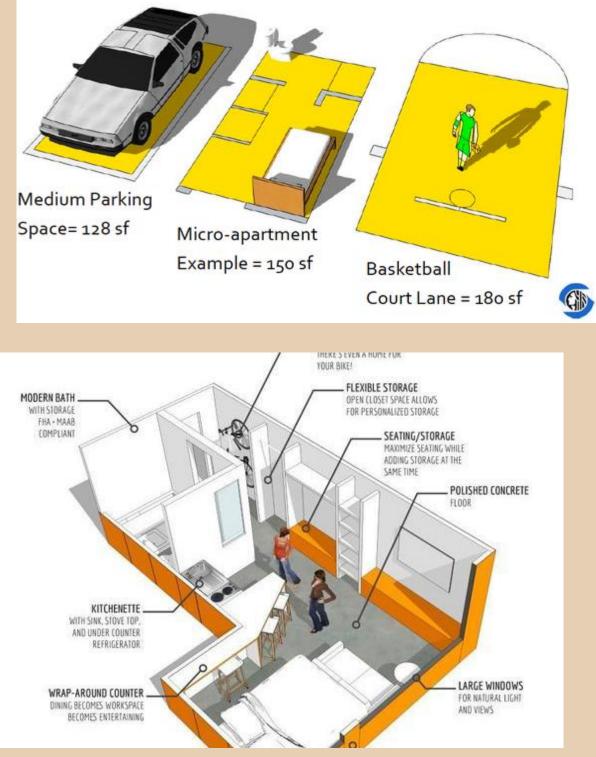
Micro-Housing

- AKA "small efficiency dwelling units" •
- Tiny apartments
- Aimed at single professionals who want • to live alone
- Seattle just approved restrictions that • include:
 - Min size of 220 sf
 - Min 150 sf sleeping area
 - Must include food prep appliances
 - Must include restroom
 - "congregate units" (sharing kitchens and restrooms) only allowed in highdensity neighborhoods, can be 70 sf
 - Must provide 3 bike parking spots for every 4 units, and car parking

How Small Are They?

Typical Seattle micro-apartment = 150 – 200 sf





Proposed Micro-housing units in Boston

Katrina Cottages

- In 2005, after Hurricane Katrina, Marianne Cusato developed Katrina Cottages
- start at 308 square feet
- Alternative to FEMA trailers
- Created to provide a pleasant solution to a disaster zone
- Received wider interest





Reasons to "Go Tiny":

 Reduced Costs • More Free Time • Simpler Lifestyle Reduced Environmental Impact

Reduced Costs

The average cost of a tiny house is

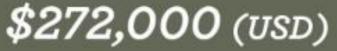


\$23,000 (USD)



Credit: Small is Beautiful – A Tiny House Film by Jeremy Beasley

The average cost of a standard size house in the U.S. is



Reduced Costs

- Financial Crisis 2007-2010 attracted attention to Tiny Homes •
- On August 19, 2014, article in US News & World Report titled • "The Tiny House Movement and Binge Saving: The New Retirement"
- Require few resources to build •
- Higher energy efficiency = Decreased utility bills •
- Decreased taxes and tax benefits



Graphic credit Custom Made

More Free Time

- Require less cleaning, painting, taxes, & maintenance •
- More easily negotiated lacksquare
- Buying a home usually requires many steps: owners or agents • involved, offers, mortgages, finances, inspections, and closings



Photo credit: tiny house living

Photo credit: CNN

Less Cluttered & Simpler Lifestyle

- less "stuff"
- self-sufficiency
- Mobility
- down to essentials
- Connect with nature
- Free from "keeping up with the Joneses"



Photo credit: rowdykittens.com

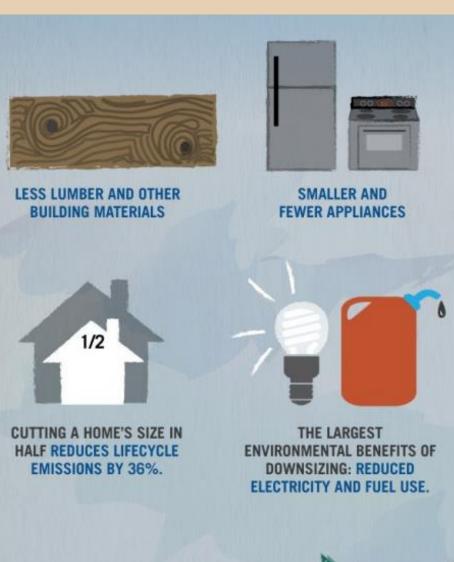






Reduced Environmental Impact

- energy efficient
- fewer resources to build
- Natural, re-claimed, & recycled materials
- hand-crafted
- on & off grid utilities
- minimal consumption
- low-impact







LESS SPACE TO HEAT AND COOL



MORE THAN 80% OF GREENHOUSE GAS EMISSIONS **DURING A HOME'S 70-YEAR** LIFE ARE ATTRIBUTED TO ELECTRICITY AND FUEL CONSUMPTION.

BECAUSE OF THEIR SIZE, MANY TINY HOUSES ARE BUILT FROM RECYCLED MATERIALS

Graphic credit **Custom Made**

Current Phenomenon



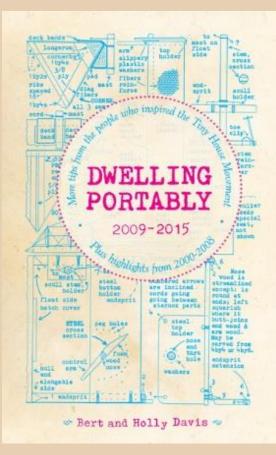
TV & Movies

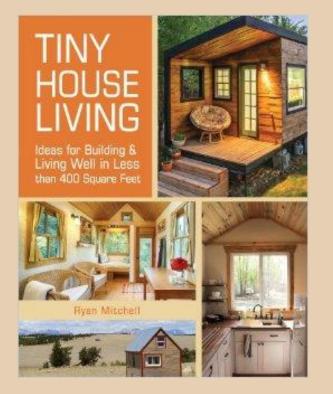
- "Tiny House Nation" TV show started in July 2014 •
- The movie "TINY: A Story about Living Small" debuted in 2013* •
- The movie "Small is Beautiful", currently in production



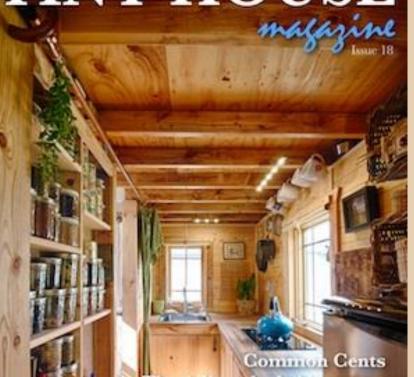
*"In America, it seems like the more stuff you have, the better. The cars should be big; you should own this and have that, and I am not about that."







Books & Magazines **TINY HOUSE**



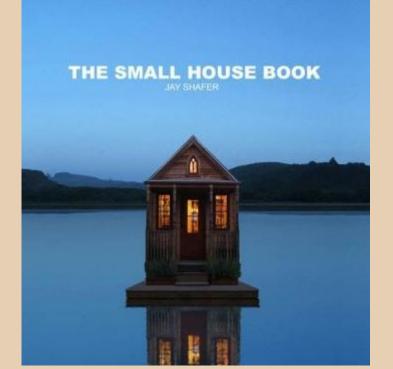
he Adirondack Airstream **Outdoor Shower** Eminue

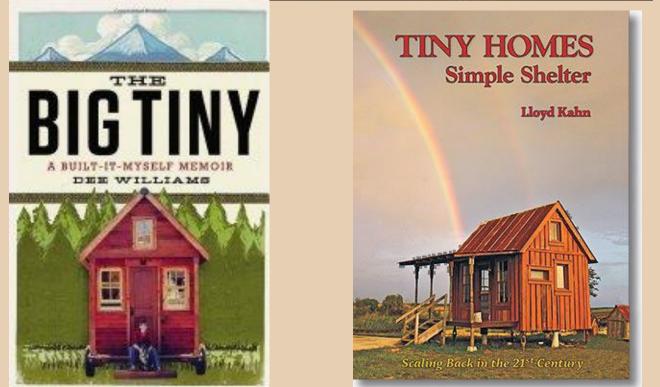
The Big Island Goes Tiny

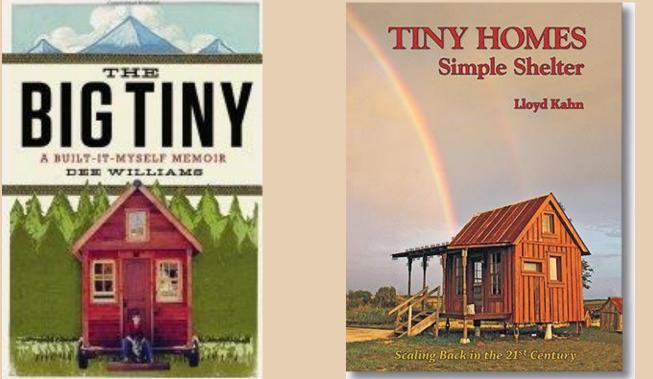


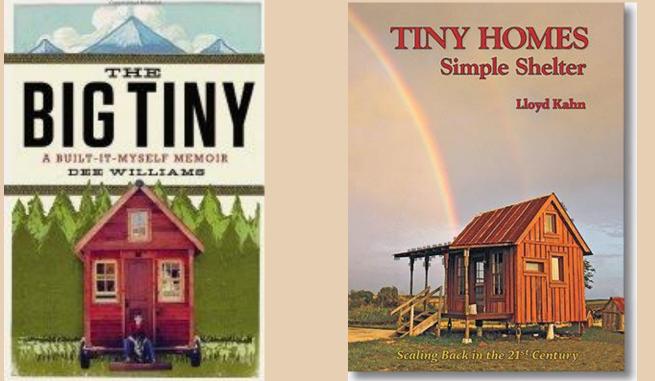


Hari Kaur Berzins









TINY HOUSE CONSTRUCTION GUIDE

YOUR GUIDE TO BUILDING A MORTGAGE FREE, ENVIRONMENTALLY SUSTAINABLE HOUSE



DAN LOUCHE

Pinterest





Retail Influence

IKEA dedicates products for • "small spaces"



Welcome to the world's smallest ideas

Small ideas are about finding and using hidden spaces and choosing furniture that does more than one thing. It's about being creative, a little rebellious and doing what you dream about no matter how much or how little space you have. And we think that is a pretty big idea.

Six small spaces to explore



Creating a small kitchen that can handle your biggest recipes

if you wish for a big country kitchen, but live in a small apartment in the city you don't have to give up your dreams-maybe just shrink them a little. More about this room



Building a walk-in closet in a small bedroom before bedtime

Building a walk-in closet in a small bedroom may seem like an impossible dream, but it's really not that difficult to do.

More about this room



Finding your own space in a shared space

Six friends living together in 130 sq ft might seem like a recipe for disaster, but a home like this proves that when everything - and everyone - works together almost anything is possible.

More about this room

Squeezing a small laundry room into a small bathroom and still finding room to relax

With on/off ideas and storage that uses the walls efficiently, a small bathroom can do more.

More about this room

Making space to be together in a small apartment

Moving in together means combining two homes into one. How do you fit everything in without having to compromise?

More about this room

Transforming a small living room into a room for everyone

Rooms in small homes are expected to do a lot, which makes them difficult to define. But when you have foldable, flexible, stackable, roll-able and climbup-on-top-able furniture, your small rooms can transform into whatever you need them to be.

Spur, Texas

- In 2014, the mayor declared it as the first "tiny house friendly town"
- City Council is finalizing ordinance that makes tiny houses legal
- Small town, with young people moving away. Infrastructure for 3,000 but only supporting 900



SMALL FOOTPRINT, BIG FREEDOM

Welcome to Spur, Texas. The nation's first "Tiny" House friendly town.







Tiny House Hotel



- in the US
- wheels
- plate

• "Caravan", located in Portland, Oregon first Tiny House Hotel

built on trailers with

100-200 square feet each has a bathroom with a flush toilet and hot shower, electric heat, and a kitchen with a microwave, refrigerator, and hot

Tiny House Workshops

TINY HOUSE COMPANY	f P 8 SEARCH CART (0) ORDER STATUS
HOUSES PLANS VIDEO WORKSHOPS TRAILERS BARN RA	AISER CATALOG NEWS
A 2-DAY WORKSHOP	
DREAM BIG LIV Save time, money, & the environment	
Vancouver, BC January 17-18, 2015	All Workshop Locations
Portland, OR November 1-2, 2014 Sonoma, CA October 18-19, 2014 WORKSHOP IN 4 DAYS	Presenter: Ella Sonoma, CA Dates: <u>October 18-19, 2014</u> <u>Download FREE Flyer</u> Sale Price: \$399 <u>BUY NOW</u> <u>LEARN MORE</u>
Colorado Springs, CO February 7-8, 2015 Charlotte, NC November 8-9, 2014	Ann Arbor, MI Dates: October 25-26, 2014 Download FREE Flyer Sale Price: \$399 BUY NOW Meg LEARN MORE
Houston, TX November 22-23, 2014 January 31-February 1, 2015 Dream Big, Live Tiny Workshop	Presenter: Sale Price: \$399 BUY NOW Brittany
Dream big, Live mily workshop	i

- Workshops popping up across the country & online
 - •De-cluttering and
 - downsizing •Tiny house building Navigating codes





November



Tiny House Basics Workshop

November 1st and 2nd, 2014 | Portland, Oregon

Our Tiny House Basics Workshop is comprehensive but entry-level, introducing you to the unique design and building principles that apply to a tiny home. This workshop includes a tour of a tiny house and pocket community, and classroom-style learning, including:

- Case studies of tiny houses and pocket neighborhoods
- · Cultivating home and community
- Navigating codes, insurance, and regulations
- Tiny house building necessities like securing your house to your trailer, controlling moisture, and designing for ventilation, heating, and cooling
- Tiny house systems, including electrical, gas, and water

TINY TRANSITION

COMETCAMPER.COM E-COURSE

Financing



Tiny House Lending

Find Out if You Qualify!

Tiny House Lending connects qualified borrowers to a network of lenders. Our partners provide low-cost, short term loans for Tiny House purchases.

We're not a bank...we're a matchmaker. We work hands-on with providers who understand your needs and want to help you succeed.

If you are considering a Tiny House purchase, complete our non-binding pre-application. We'll then work on your behalf to help you find the right lender and the right loan.

Click here to complete our brief pre-application.

Contact us for more information.

STAY UP TO DATE! We'll let you know when new lenders are available in your area!

Email Address *	First Name	
Email Address *	First Name	

Subscribe

Insurance



- "Tiny Home" policy. HO3 **Special Form Homeowners** Policy
- Covers the finished dwelling at the premises location
- Expanding in the future to cover "Tiny Home Parks/Communities" and Tiny Home construction policies

In the Details



Building a Foundation

Mobile: Built on trailer Permanent: Built on foundation





Safety

- Popularity = rapid increase in both amateur and professional builders
 - led to safety concerns
 - •In 2013, Tiny House Business Alliance formed to address ethical and safety issues
 - Various professionals hold workshops nationwide to teach tiny house enthusiasts to build their own homes safely



Photo credit: thetinyhouse.net



Photo credit: tinyhousedesign.com

Utilities (On or Off grid)

• Plumbing

- Connected to public water and sewer: Water comes in through an RV hose, and leave via an RV sewer valve. A sewer hose would connect the house to the sewer
- NO public water and sewer: Portable waste holding tank (as used in RVs)
- **Toilet** : Standard, compost, or RV toilet



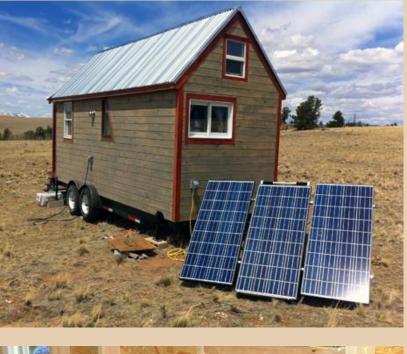




Utilities (On or Off grid)

- **Electricity**: Wired to be plugged in owner must determine source of electricity (standard AC plug-in or via a solar electric system with inverter)
- **Appliances**: two-burner stove, under counter fridge, bar sink, RV on-demand hot water heater • Heating: propane boat heater







Details / Craftmanship

- Quality over Quantity
- Wood interior won't crack like drywall (important if house is moved)





Photo credit: Tiny House pins Photo credit: Tiny House living

Regulations



Permanent Foundation & the Code

- Per IBC 2012:
 - •every dwelling unit shall have:
 - •at least one 120 sf habitable room (other habitable rooms must be 70 sf, except kitchens)
 - water closet, lavatory, bath/shower, kitchen w/ sink, sewage disposal, and water supply
 - habitable rooms shall not be less than 7' in any direction
 - portions of a room with a sloping ceiling measuring less than 5' or a furred ceiling less than 7' shall not contribute to the min. required habitable area



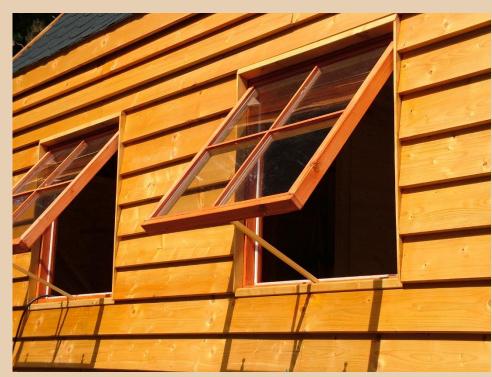
Photo credit: mountainize.com



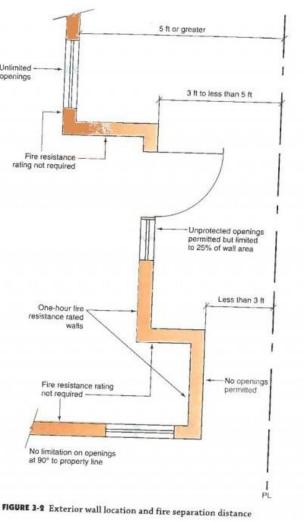
Photo credit: tinyhouseblog.com

Permanent Foundation & the Code

- Per IBC 2012:
 - Egress requirement for loft space (5.7 sf operable window/door)
 - •10' separation b/w homes (5' from assumed property line)
 - •If less than 5', then walls must be rated



Unlimited opening



Permanent Foundation : Zoning

- Obstacles on where they are allowed
- Not seen as legal primary dwelling
- Not allowed to "front"
- Sometimes permitted as accessory dwelling unit



I Start a petition I Browse

change.org

Petitioning Greg Hutson ~ Remove city ordinances the prevent or restrict the use Homes"

	1 Lo
1247	Sign this petition with 3,333 supporters
T. J.	1,667 NEEDED
3 5.	First Name
18 ALA	Last Name
	Email
	Street Address
	City
The second	State V Outside U.S.?
	Zip Code
at of "Tiny	Why is this important to you? (Optional)
	Sign ≯
	 Display my signature on Change.org Keep me updated on this campaign and

On Wheels: Tiny House as RV

- Loophole to permit as RVs (Recreational Vehicles)
 - Road requirements: maximum of 8'6" wide and 13'6" high
 - Must have registered tag, working brake lights, and turn signals
 - Need 2¹/₂ ton vehicle to tow (Ford F250, Dodge RAM 2500, GMC Sierra 2500, or U-Haul Truck)
 - Zoning issues: usually only allowed in campgrounds and RV parks; can only be lived in temporarily
- DIYers may be turned away, as many RV parks require RVs be manufactured by a member of the Recreational Vehicle Industry Association





Location

- On a friend or family's land that you rent
- On your own land that you own
- In some RV or mobile home parks
- Tiny Home Community





Future Planning



Tiny House Communities

- Anchor Square
 - Cottage Community
 - Mississippi Gulf Coast after Katrina
- "Napoleon Complex" tiny house village
 - Being developed by Four Lights Tiny House Co.
 - Based on mobile home community model
 - 16-22 units per acre
 - communal facilities: parking and common house
 - People in the center, cars in the back



Anchor Square photo credit: GulfLive.com

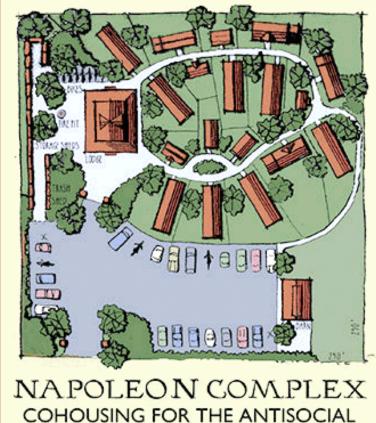


photo credit: Four Lights Tiny House Co.

Tiny House Communities

Where?

- Rural
 - Less restrictive requirements
 - Sustainable features (composting toilers, rainwater collection, etc.)
 - Further from services & amenities
- Suburban
 - chance of access to transportation (bus/rail)
 - Potential for shared resources
 - Increased ability to socialize with neighbors
- Urban
 - •Accessory dwelling units
 - Access to urban infrastructure, services, amenities, jobs, public transportation
 - Increased density and efficient land use







photo credit: tinyhomes.com

ADU/Tiny House Overlay District

- Elizabeth Roberts, an Atlanta attorney, authored an overlay district
 - The principal dwelling or the accessory dwelling unit must be owner-occupied and single-family detached;
 - The number of occupants of the accessory dwelling unit shall not exceed two (2) unrelated individuals;
 - Maximum height: 25 feet; Maximum unit size: 700 sf and less than 40% of the principal dwelling's floor area;
 - Setback requirements: standards for principal or accessory buildings in the underlying primary district;
 - ADU/Tiny House entryways within a rear or side yard shall be connected to a street frontage by a paved walkway or driveway;
 - To match principal dwelling unit: Exterior finish materials, roof pitch, detailing, trim, eaves, windows

Alleviating Homelessness



SOME CITIES HAVE PROVIDED HOMELESS COMMUNITY WITH VILLAGES OF TINY HOUSES.

Graphic credit Custom Made

Alleviating Homelessness

•A Slovakian firm called Design Develop has created a triangular tiny house for the homeless on stilts that can be used in conjunction with a billboard ad

•Community near Ithaca, NY called Second Wind Cottages

 Proposal for Tiny house Village in Portland, Oregon





Alleviating Homelessness

- **Community First!** Village in Central ulletTexas
 - •27 acre master-planned community
 - Affordable, sustainable housing for disabled, chronically homeless
 - Mix of housing options
 - Garden
 - Chicken operation, bee hives
 - Medical facility
 - Outdoor theater
 - Workshop and art gallert
 - Meeting space





Your financial support is vital to providing a home for our disabled, chronically homeless friends. There are many opportunities for you to pave the way home for our homeless brothers and sisters in need.



5th Wheel RVs

Each home will include a fully functioning kitchen equipped with cooking supplies and refrigerator, hathroom with standup shower separate bedroom with fresh linens and new bed, living and sitting area and ample storage space.

Contact Us

Community First! Village

A program of Mobile Loaves & Fishes, Community First! Village is a 27 acre master-planned community that will provide affordable, sustainable housing and a supportive community for the disabled, chronically homeless in Central Texas.

HELP US GROW

Pave the Way Home





OMMUNITY FIRST **Micro-Homes**

The micro-home ranges in size from 144 to 180 sq. feet and is environmentally friendly and sustainable. It is equipped with electricity, and its unique design maximizes airflow for the comfort of our residents and reduces the need for excessive power usage even in the most extreme weather conditions. Outdoor kitchens, private bathrooms, and shower and laundry facilities are conveniently located throughout the property. Click here to see how we can build this house in 6 hours!



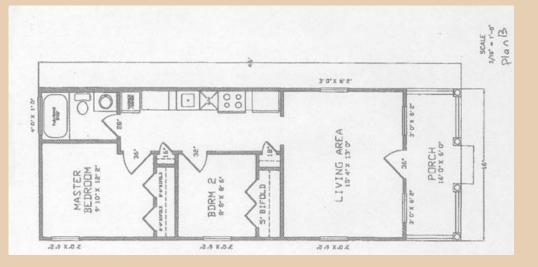
Canvas-Sided Cottages

These cottages are built securely on a structured deck. Approximately 12x12 in size, the one room cottages offer a single bed, chair and a small table This home is equipped with electrical power, a wall socket and ceiling light. Outdoor kitchens, private bathrooms, and shower and laundry facilities are conveniently located throughout the property.

Tall Tales and Tiny Fictions

Ed Jackson Developer, Cottages at the Addison





- friend needed to sell the property in a hurry
- zoned multi-family, and infra-structure in place; required variance on setbacks
- Ed had worked with Hurricane Katrina disaster teams in Mississippi
- All the units sold to walk-ins without
 - Realtors
 - 720 sf









Tim Watson Owner, Southern Fried Homes Small Houses & Tiny Houses







Small Houses



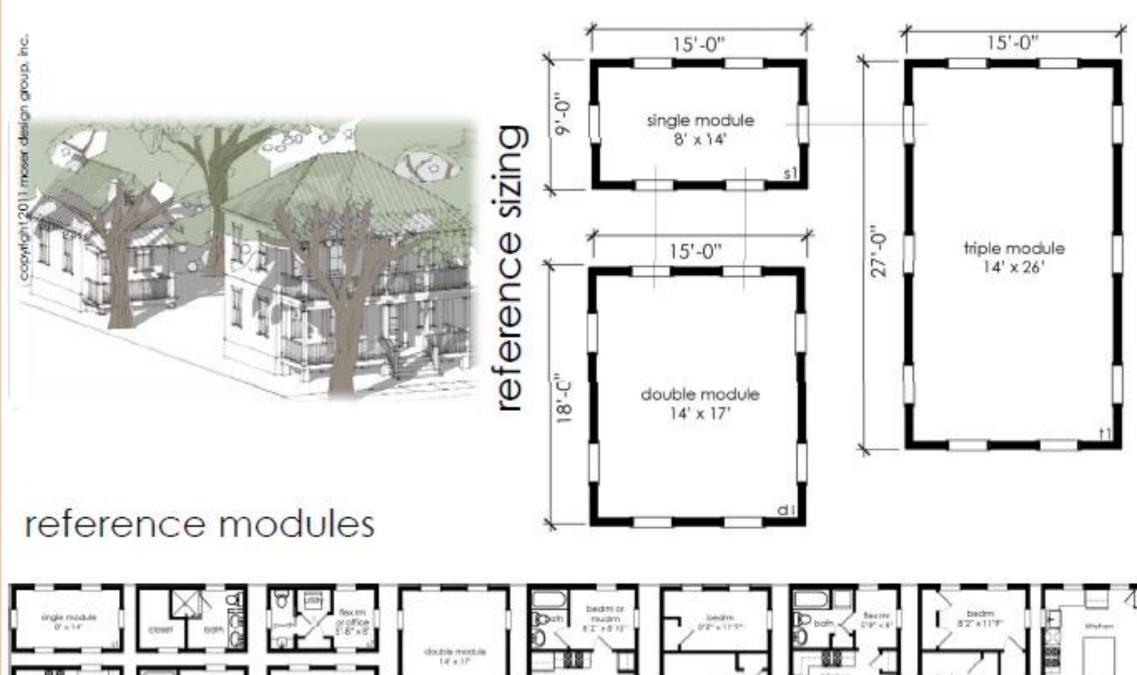
- Independent dwellings
- ADUs
- Real estate







The Grow House



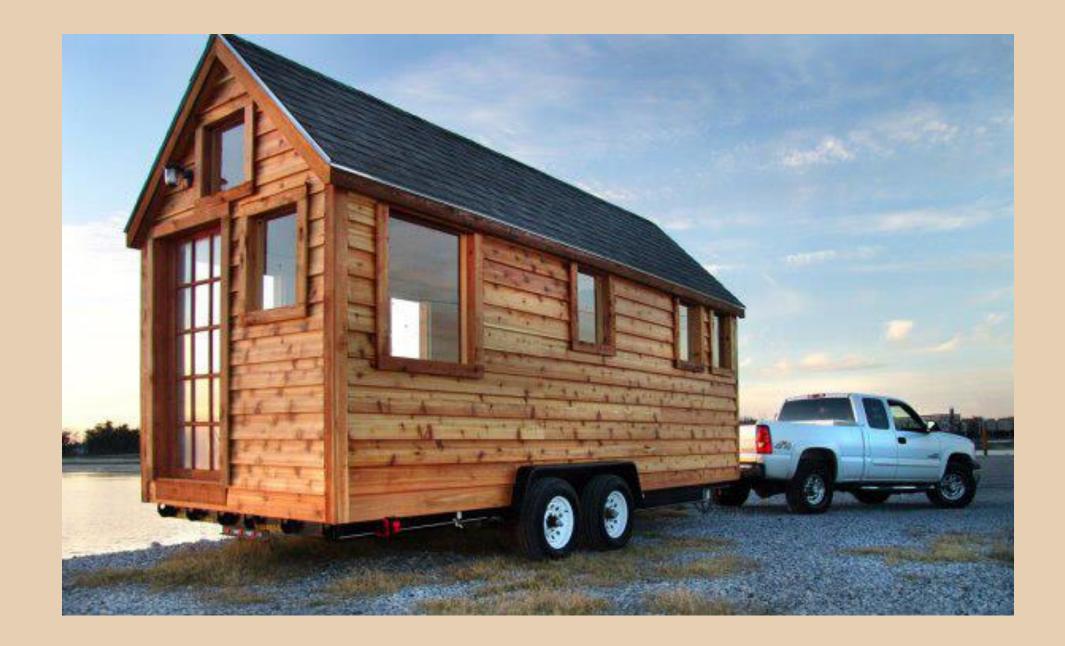




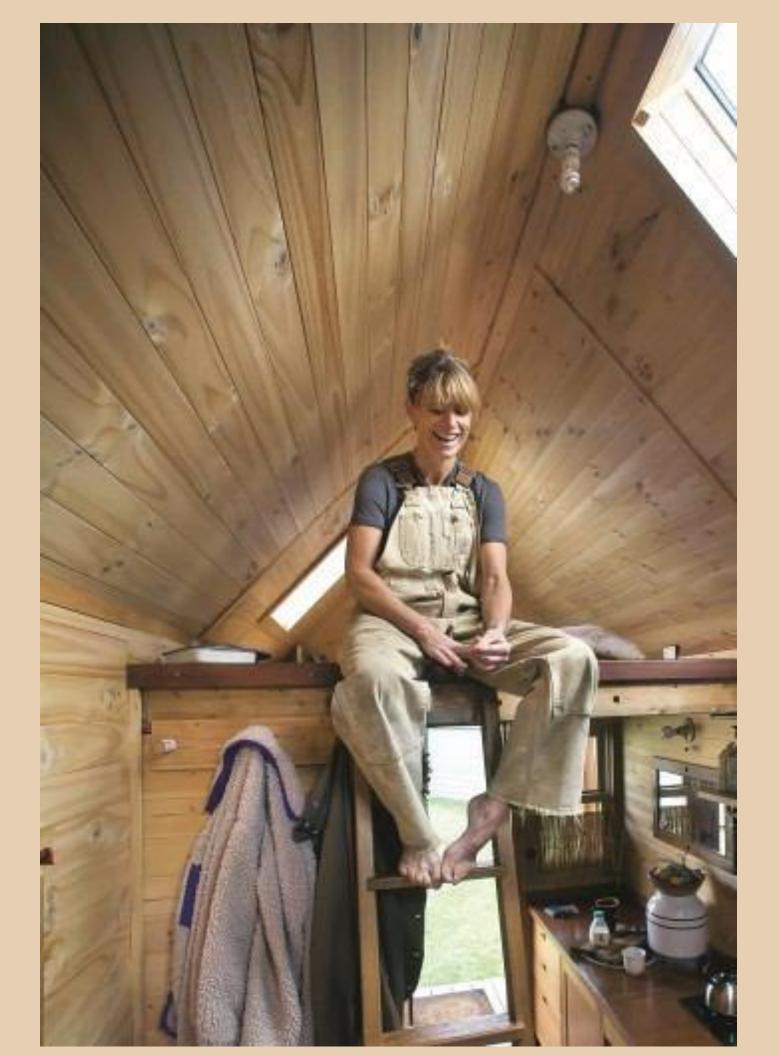


Tiny Houses

- Often off the grid
- Mobile
- Waste sytem?
- DIY
- Unregulated
- " A fresh start"







- Single person loft space
- Vaulted ceiling
- Utilizing every available inch of space





- \$\$\$\$\$
- No \$\$\$





• Park Model





• Design

inspirations



BRYANT PARK Cottages



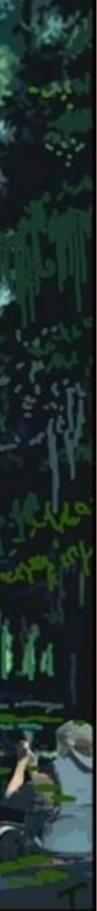


12 Detached Residences 700-1700 sf

Hilton Head Island



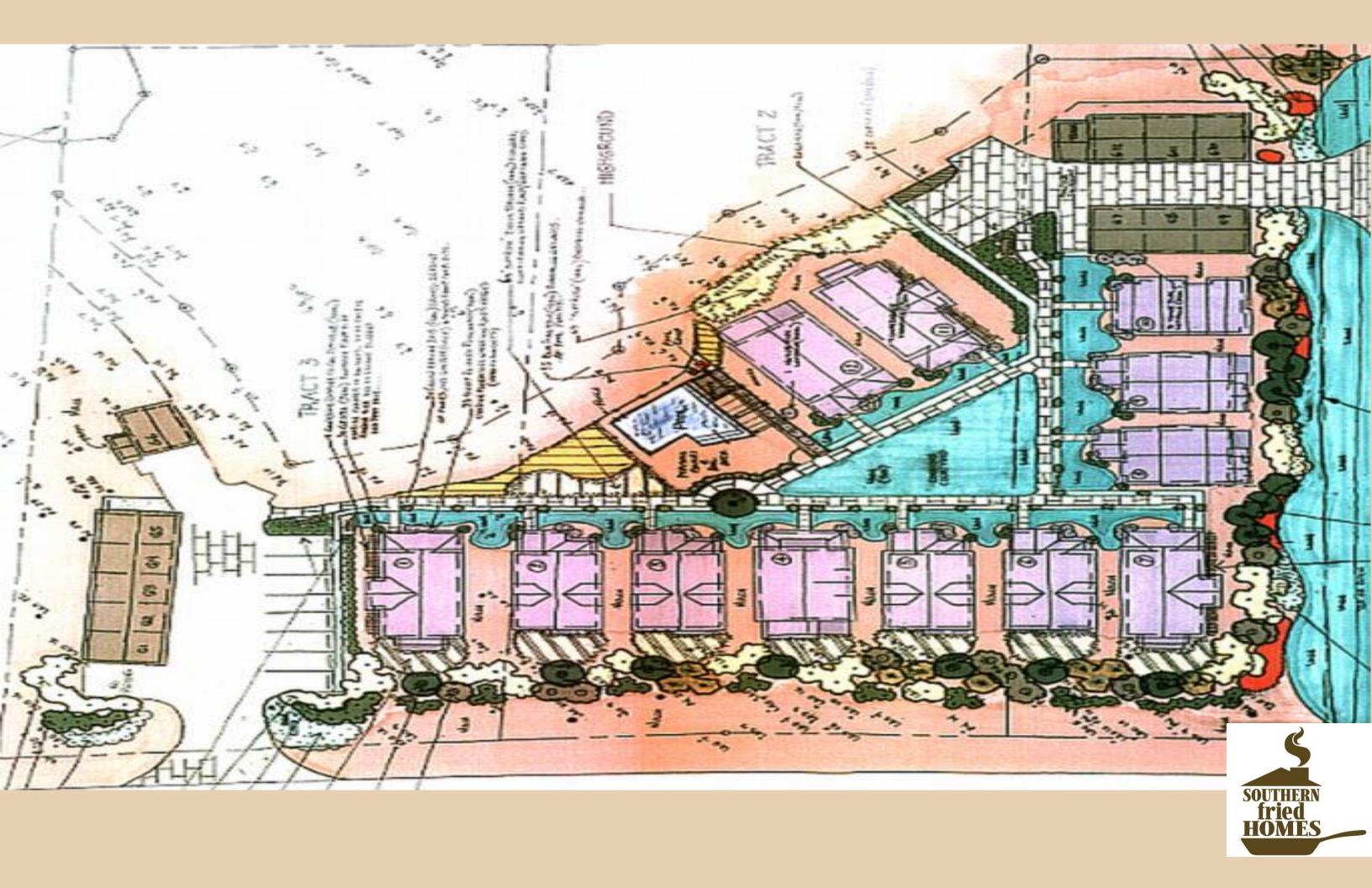




Fish camp \$40,000

Complete with self contained sewage system.





Q & A with Zach Thomas Owner/builder of the "Golden Elephant" http://charlestontinyhouse.com





- Custom tiny house in Charleston
- 324 sq ft
- Two lofts
- Separate private areas
- Work space for 2 people



Could tiny home living improve local quality of life economically, environmentally and culturally?

If so, how can you make it viable within your community?

Have you had any requests for tiny homes in your community?

Can you envision the "perfect place" for a tiny home community in you area?

How small do you think you could go?

1000 sf? 500 sf? 250 sf? 100 sf?

If you built tiny house, what would it be?

Contemporary? Bungalow? On wheels?

Resources

Books

- The Small House Book by Jay Shafer
- Tiny Houses by Mimi Zeiger
- Humble Homes, Simple Shacks...by Derek Richardson
- 120 Ideas for Tiny Living by Laura M. LaVoie

Blogs

- Tiny r(E)volution
- The Tiny Life
- Tiny House Blog
- Smalltopia
- Tiny House Talk
- Tiny House News
- Life in 120 Square Feet