

Workforce Development featuring Tiny House Village and Solar Installer Program



COSUMNES
RIVER COLLEGE

Tiny House Village

Instructional Innovations in the
Building Trades



Presented by:

Ryan Connally - Department Chair Building Trades

Jason Ellis - Architecture Professor

Steve Geiger - Solar Technology Professor

Dr. Kim Harrell - AVP Economic & Workforce Development

Project-based Interdisciplinary Servant Learning

Environmentally conscious

- Sustainable irrigation & landscaping
- Sustainable design & construction

Social justice orientation

- Food Insecurity
- Homelessness
- Climate change

Work-readiness Skills

- Teamwork
- Critical thinking
- Communication
- Project management

Northeast Area Development Sustainable Living Collaborative



Awards & Investments

2017 - Prop 39, \$180,000

2018 – SMUD, \$47,000 Shine Award

2019 - Teichert Construction, \$8,837

2019 – SMUD, solar panels donation

2020 - Strong Workforce \$76,500

Partnerships

2016 - SMUD THV Competition

2016 - Habitat for Humanity

2017 - Sac Valley Nature Conservancy

2017 – Soleeva endorses solar installer

2018 - AIA Living Building Challenge

2019 - Stonebridge Properties

2019 - Otto Construction

2019 – Teichert Construction

2020 - Grid Alternatives

Awards, Investments & Partnerships to Date



Advanced Building Techniques including:

- Lumber reduction & Advanced framing
- Air sealing & Insulating
- Zero Net Energy goal for competition
- Sustainable building materials
- High Efficiency appliances

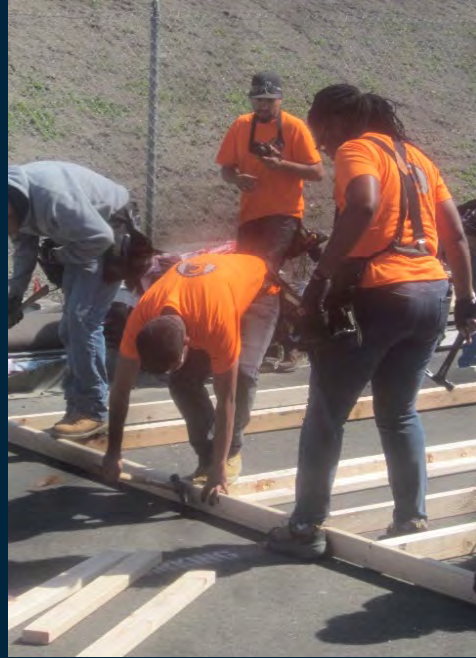


Renewable Energy and Energy Efficiency

- 1.3 KW solar array
- High Efficiency Mini-Split HVAC
- Building Science tested for Air-Sealing @ .19 ACH







Solar Program

- Hands on training for living wage jobs in the solar industry
- Introducing our new Solar Certificate Program



Solar Program

- Classes:

- Solar Photovoltaic Systems 1
- Solar Photovoltaic Systems 2
- Intro to Construction
- OSHA Safety



Solar Program

Our partnership with GRID Alternatives provides real world hands-on experience for students.





CRC Tiny Homes Design/Build

- Project Based Learning that models Integrated Project Delivery
 - (Design + Construction + Owner = Team)
- Positive environment for architecture students to learn construction and vice versa
- Non-Profit Clients
 - Compassion Village Homeless Shelter
 - Sacramento Valley Conservancy
 - Kavanah
 - Soil Born Farms



AIACV Design Competition, 2018/2019

Non-Profit Client:
Compassion Village
Homeless Shelter

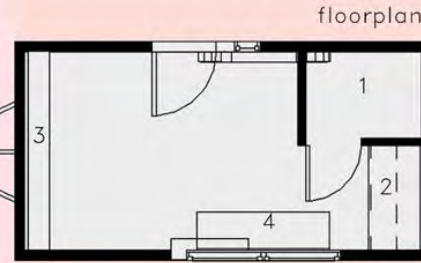
AIA Award Winner:
Marishia Lopez, CRC '20

Honorable Mention:
Van Doan, CRC '20
Sean Martin CRC '19



the fern

ferns are an expression of allure and sincerity towards others. this tiny house was designed in a way that will support personal growth, recovery, and overall happiness.



- 1. bathroom
- 2. kitchenette
- 3. murphy bed
- 4. fold out table
- 5. loft

site plan



**AIACV Design
Competition, 2018/2019**

Non-Profit Client:
Compassion Village
Homeless Shelter

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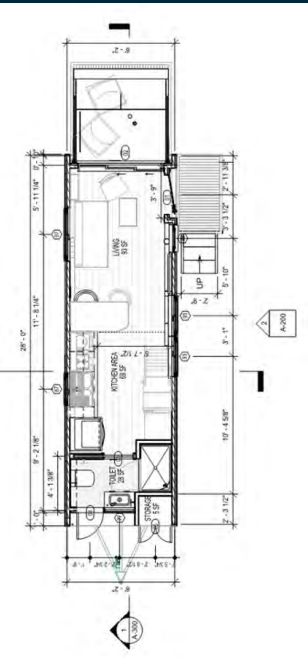
Honorable Mention:
Van Doan, CRC '20
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Caretaker's Tiny House 2017/18

Non-Profit Client:
Sacramento Valley
Conservancy
Caretaker's Cottage

Selected Design:
Asim Khan, CRC
'18

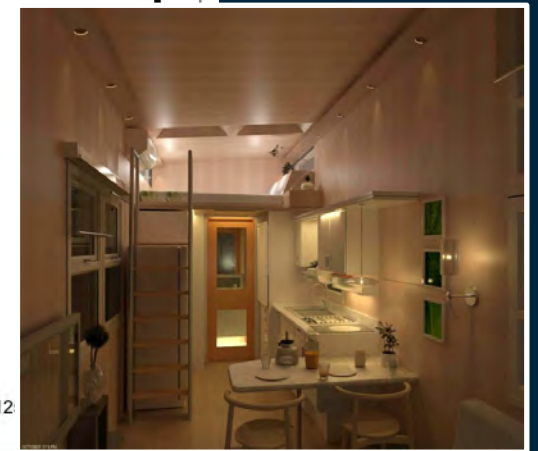
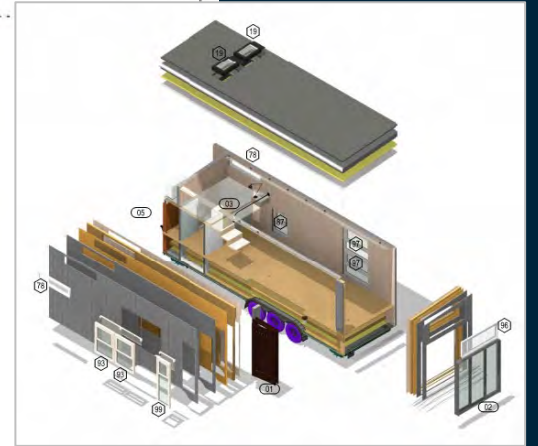


ARCH 329

PROFESSOR JASON ELLIS



FALL 2017 ASIM W 12



IF THIS SHEET IS NOT 11" X 17" IT IS A RELEASED PRINT. USE GRAPHIC SCALE.



PROJECT NAME : **TINY HOUSE**
PROJECT ADDRESS : SACRAMENTO VALLEY CONSERVANCY

SHEET NAME :
COVER SHEET

No.	Description	Date

Project number	A1027
Date	Issue Date
Architect	A.S.K
Checked by	Checker

A-000

Scale

12/13/2017 11:00:22 AM

SMUD Design Competition, 2016

Selected Design:
Brenda Delgado CRC
'16



This young lady's name is Nahal, she's doin a damn fine job of texturing, ARCH representin!

Cabinet construction



“

What makes the CRC learning environment so dynamic, is that it brings trade students into the design process, allows for contractor driven feed back in ‘constructability’, and it brings design students into the fabrication and construction side of the build process.

-Ryan Connally – Professor, Construction Technology

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