



WARRIOR VILLAGE PROJECT®

501 (c)(3) Nonprofit

The Bugle: Vol 6, Issue 4, April 2024

www.WarriorVillageProject.com

PROGRESS REPORT

Our team from [San Marcos High School](#) won the **Rookie Team of the Year Award** at the Southern California [CIEF Design Build Competition®](#) in Huntington Beach on April 11!

“They worked extremely hard over two days (17 hours) building nonstop to construct an 8’ x 12’ shed on a hot asphalt parking lot at Golden West College. Forty schools from Southern California came to compete, and we fielded by far one of the smallest crews (7 students). I believe student for student, our team outbuilt every team besides the college apprenticeship teams. They were awarded with Rookie Team of the Year, beating out many other new schools competing. Most schools built much less complex and smaller sheds and still didn't finish. Watching their hard work being recognized and craning the shed on the trailer to bring it home capped off an exciting competition, said Teacher Chris Geldert.”

Chris thanks the [Associated General Contractors](#), [Onyx Building Group](#), and the [CIE Foundation](#) who donated a significant amount of money and time to support his students. *“They were the force behind our student's success and opportunity!”* Chris also thanks the [Warrior Village Project](#), [Project Next](#), Misty Little from [Baker Electric](#), the [Julia Morgan Society](#), and all the school site and district-wide support of SMUSD. Read more about the San Marcos Team on [page 2](#) and other San Diego County teams on [page 14](#).



Aaron, Caiden, Travis, Nina, Aaron, Jake & Phil.

This was the first year that ONYX Building Group sponsored a team in the Design Build Competition. ONYX supported our team financially with a \$3,500 grant and ONYX Project Manager Kurtis Bullard came to Huntington Beach to support our team.

Kurtis has roots in San Marcos, so he was happy that ONYX CEO Nicole Caya-Winfield volunteered to support our SMHS team. We hope Nicole is happy with her Rookie Sponsor of the Year triumph.



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EVENTS

**Last Full Month of School
May 2024**

VIP PROFILE

Our Students

In our [January 2024](#) Newsletter we told you that our San Marcos High School (SMHS) students were preparing for the [Construction Industry Education Foundation](#) (CIEF) 39th annual [Design Build Competition®](#). On Day One in the construction of SMHS' first Moveable Tiny House, a select group of eight SMHS students also started Day One of the Practice Phase of SMHS' first Design Build Competition. Teacher Chris Geldert and Alan Jurgensen of the [AGC Apprenticeship Training Program](#) kicked off Day One with a review of the competition rules, the plans for the shed that they would build, and how they would prepare to hit the ground running (i.e. building) at Golden West College on April 10.

For three months the SMHS Design Build Team fine-tuned their skills building a 96 sq ft shed, focusing their efforts on their job assignments at the competition, and learning how to work as a team. Not only does the team need to have sharp individual skills, they need to work efficiently and fast as a team. The two-day competition is a race against the clock as much as a skills competition. It is also a test of stamina!

SMHS prepared to compete for honors with 39 other schools at Golden West College in Huntington Beach on April 10 - 11, including six other schools from San Diego County. See [page 14](#) to read about the two-day Competition and the other high schools that represented San Diego County.



CIEF
Construction Industry
Education Foundation

CONSTRUCTION
INDUSTRY EDUCATION FOUNDATION

DESIGN BUILD

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VIP PROFILE

Our Students (continued)



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VIP PROFILE

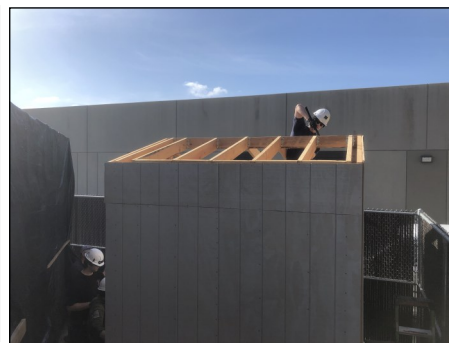
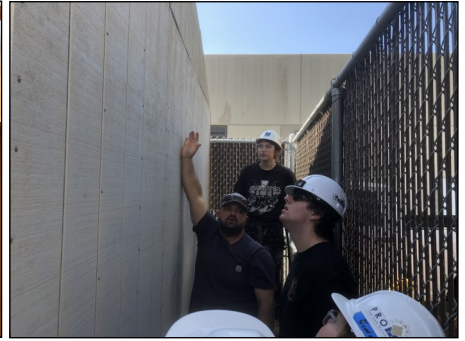
Our Students (continued)



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VIP PROFILE

Our Students (continued)



(Continued on Page 6)

VIP PROFILE

Our Students

After practicing for three months, our SMHS Design Build team was ready to go. *ROAD TRIP!* Chris scheduled the journey up I-5 and I-405 to Huntington Beach to arrive at the build site at 06:15. He pulled in closer to 06:30, but in plenty of time to get set up before the Mandatory Welcome and Safety Meeting scheduled for 07:45. The other six teams from San Diego County arrived later. There was a driver driving southbound in the northbound lanes of the freeway that kept them from arriving earlier. Fortunately, they all arrived safely.

The teams were allowed to start building at 08:00. After rising before 04:00 our team was probably ready for a nap; instead, they went to work! By the end of the competition our students were exhausted, some were sunburned, and a few had blisters, scrapes and bruises. They will forget how tired they were at the end of the competition, but they will never forget the experience they had.



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VIP PROFILE

Our Students



CONSTRUCTION UPDATE, SMHS

- Chapter 1 Trailer
- Chapter 2 Framing
- Chapter 3 Rough Plumbing
- Chapter 4 Rough Electrical
- Chapter 5 Wall sheathing
Roofing Shear
Moisture Barrier
- Chapter 6 Roofing
- Chapter 7 Windows and Doors
- Chapter 8 Rain Screen
Exterior
Exterior Trim
Finish
- Chapter 9 HVAC
Venting
- Chapter 10 Insulation
- Chapter 11 Interior Wall
Ceiling Covering
- Chapter 12 Interior Cabinetry
Installations
Flooring
Fixtures
- Chapter 13 Interior Trim
Finish
- Chapter 14 Finish Plumbing
Electrical
Fixtures
- Chapter 15 Finish Hardware
Touch-ups
- Chapter 16 Health & Safety
Final Testing
Certification Sub-
mission



San Marcos High School: Chapter 5

Our rainy weather continued into the first week of April, but we enjoyed sunny, blue skies the remainder of the month. While part of the SMHS construction class was at the Design Build Competition in Huntington Beach on April 10 - 11, the rest of the class worked diligently on campus to see how much they could get done on their tiny house before the end of the school year.

We have learned that weather is an important consideration in our high school tiny house building program. Albert Hammond, co-writer and singer of the 1972 song [It Never Rains In Southern California](#), was wrong; it does rain in Southern California! Rainy weather can really impact the pace of construction, particularly when it seems to always rain on our 2-hour block days. I sympathize with schools in the Midwest that must build in the snow!

[Nick Mosley](#) developed our building plans, curriculum and certification program which he offers through [Tiny House Inc.](#) The program curriculum is organized in a logical order; the Rough Plumbing and Rough Electrical are performed after the Framing is completed. It is easier to install the plumbing and electrical wiring while the walls are still open on both sides. This is how Nick's [California Tiny House](#) does it in its indoor factory in Fresno.

However, SMHS, SPSHS and most other high schools building tiny houses with the Tiny House Inc. program are building their houses outside. After receiving feedback from his participating schools, Nick worked with the certification agency to make it possible for schools to 'skip forward' to the program Chapters on Wall Sheathing, Roofing Shear installation, and Moisture Barrier installation before installing the Rough Plumbing and Rough Electrical.

Collaboration to fine tune the curriculum will make our tiny house building program a better learning experience for our students. Thanks Nick!



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CONSTRUCTION UPDATE, SMHS (continued)



(continued on page 10)

CONSTRUCTION UPDATE, SMHS (continued)



Follow the progress of our students with our monthly Construction Updates.

CONSTRUCTION UPDATE, SPHS

San Pasqual High School: Chapter 1

- **Chapter 1 Trailer**
- Chapter 2 Framing
- Chapter 3 Rough Plumbing
- Chapter 4 Rough Electrical
- Chapter 5 Wall sheathing
Roofing Shear
Moisture Barrier
- Chapter 6 Roofing
- Chapter 7 Windows and Doors
- Chapter 8 Rain Screen
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Fixtures
- Chapter 15 Finish Hardware
Touch-ups
- Chapter 16 Health & Safety
Final Testing
Certification Sub-

The skies of Escondido cleared in April just in time for the Solar Eclipse. Under a bright blue sky, our San Pasqual students moved their show out of the shop to their outdoor building area.

They also moved their tiny house to a roomier spot from its original parking space behind their woodshop. Consequently, they had to re-level the trailer before they started framing walls. If the floor isn't level, the walls won't be vertical and at right angles. The time they spent practicing their framing skills in the shop paid off. They finished framing their first wall - the back wall of their tiny house - in record time. It is going to be fun from now until the end of the year as they frame and raise all four walls.

Construction teacher Brandon Tarrac is stretched supervising 30 students. This month, Brandon was assisted by Michael McSweeney, Career Technical Education Coordinator for the [California Homebuilding Foundation](#) (CHF). Michael supports 58 schools enrolled in the CHF [Building Industry Technology Academy](#) program.

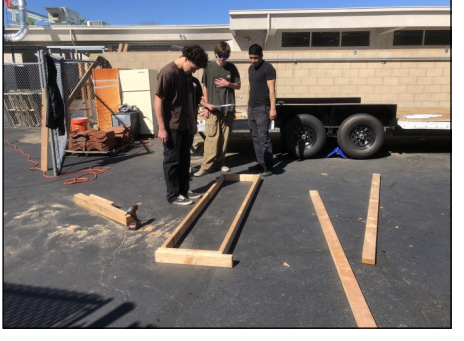
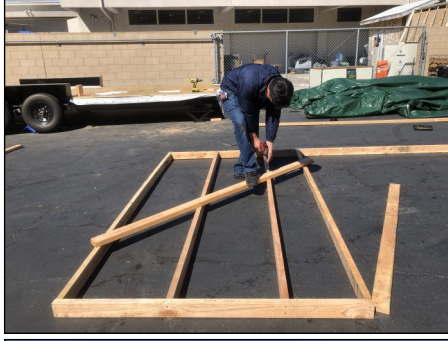


Michael helped students at San Marcos High School build and raise the walls on our first two houses SMHS students built. Now he is helping San Pasqual students to do the same. We appreciate you Michael!



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CONSTRUCTION UPDATE, SPHS (continued)



(continued on page 13)

CONSTRUCTION UPDATE, SPHS (continued)



PARTNERS

Construction Industry Education Foundation (CIEF)

The [Construction Industry Education Foundation](#) (CIEF) held its 39th annual [Design Build Competition®](#) this year. During the four-month program, each school team is challenged to design and prepare several construction documents according to criteria outlined by CIEF for a 96 square-foot structure. Teams built their structure during a two-day competition and were judged by industry professionals on the completion of design, construction, code compliance, and safety.

CIEF provided all construction materials listed in the Instructor Guide for the Competition. Schools that wanted to add materials to customize their build were entered into the Open Competition. Recent years have brought a focus on building with a purpose; teams donate their structures to local nonprofits or sell them to fund a worthwhile cause in their community.

This year's Southern California Design Build Competition culminated in two days of construction activity at [Golden West College](#) in Huntington Beach on April 10 - 11. Last year, 25 teams comprised of 340 students participated in the competition, including 4 San Diego County high school teams: [Mira Mesa High School](#) (San Diego); [Rancho Buena Vista High School](#) (Vista); [West Hills High School](#); and [IDEA Center](#) (Santee and El Cajon).

This year 40 schools competed in Huntington Beach, including 7 high school teams from San Diego County. [Mira Mesa High School](#), [Rancho Buena Vista High School](#), and [IDEA Center High School](#) returned to Huntington Beach this year. They were joined by: [Ramona High School](#); [San Diego High School](#); [San Marcos High School](#); and, [San Ysidro High School](#) (San Diego). With the growth in the number of competitors from San Diego County, CIEF plans to stage a [Design Build Competition®](#) in San Diego County in the future.



Build With A Purpose

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PARTNERS

Construction Industry Education Foundation (CIEF)

Seven high schools from San Diego County took the field in Huntington Beach.



Award Winners

- Our [San Marcos High School](#) team won the **Rookie Team of the Year Award**.
- The **Craftsmanship Award** was won by **Valencia High School**, which had the highest combined Construction Evaluation and Building Code Compliance scores.
- **Roosevelt High School** was awarded the **Team Safety Award** for best overall points for safety judging.
- Mark Richardson Career Technical Education Center (Santa Maria) was awarded the **Architectural Award** for the **Open Competition** and the **People's Choice Award**.
- The **Honorable Mention Award** went to **Sultana High School**.
- **Apple Valley High School** won the **Best of Show** for the **Open Competition**.
- **Fontana High School** won the **Best of Show** for the **Shed Competition**.

Thanks!

We are very grateful to the amazing folks at the [Construction Industry Education Foundation \(CIEF\)](#) for producing another great event for over 500 high school students. Our thanks go out to Jordan Blair, *Chief Executive Officer*; Brittany Albaugh, *Director of National Youth Programs, Design Build SoCal/Texas, and Trades Days National*; and Dustin Hildebrand, *Program Coordinator - Southern California*. We can't wait for you to bring the Design Build Competition to San Diego County!

PARTNERS

Construction Industry Education Foundation (CIEF)



SPONSORS

Design Build Competition

The [CIE Foundation](#) could not hold its annual [Design Build Competition®](#) without the support of its sponsors. We thank two Platinum Sponsors who have also been strong supporters of the Warrior Village Project: [Ferguson Cares](#) and [Simpson Strong-Tie](#). We also thank the Team Sponsors who sponsored seven high schools from San Diego County.



San Marcos High School
(SMUSD)



Mira Mesa High School
(SDUSD)



Rancho Buena Vista
High School
(VUSD)



IDEA Center
High School
(GUHSD)



Ramona High School
(RCUSD)



San Diego High School
(SDUSD)



San Ysidro
High School
(SUHSD)



Pacific Rim Mechanical

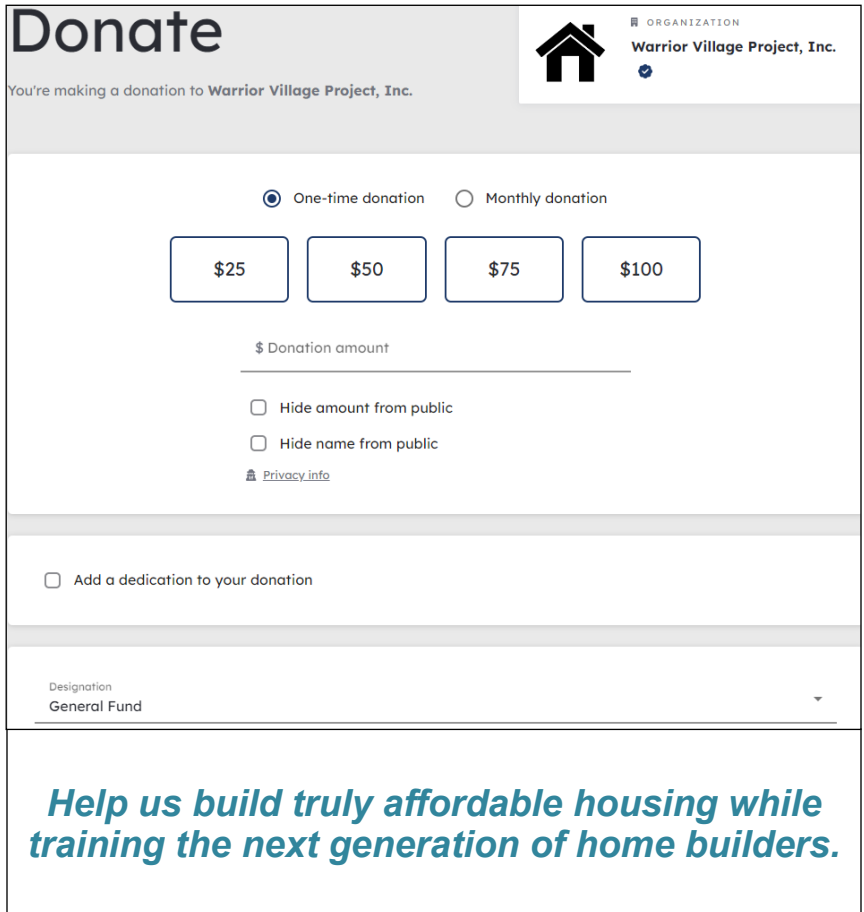
DONATE TO THE WARRIOR VILLAGE PROJECT

The Warrior Village Project has joined the San Diego Gives 2024 Campaign. It is easy to donate to the Warrior Village Project through the [San Diego Gives online platform](#). Your donation will go to the Warrior Village Project General Fund to purchase materials to build Moveable Tiny Houses in high school construction classes in San Diego County.

The trailer foundation and building materials required for one Moveable Tiny House (MTH) cost about \$34,000. The curriculum and the inspection and certification package cost about \$6,000.

The cost of installing an MTH as an Accessory Dwelling Unit will depend on the site. But, it should cost about \$20,000 per house. Hence, we can provide a permanent, fully equipped tiny house for a homeless person for about \$60,000 per unit.

According to the [Turner Center for Housing Innovation at UC Berkeley \(March 2020\)](#): *“Between 2016 and 2019 the costs to develop a new affordable unit under the Low-Income Housing Tax Credit (LIHTC) program have increased from \$425,000 per unit to more than \$480,000 per unit.” “These escalating costs represent a significant challenge to a state struggling with an affordable housing crisis, and erode the impact of the increased public subsidies directed toward building new housing.” Isn’t it time to build truly affordable housing?*



PROJECT CONTACTS

Volunteer	Mark L. Pilcher	760-666-0077 ...	Mark@WarriorVillageProject.com
CHF BITA Program Dir.....	Jill Herman	916 412-7118	JHerman@mychf.org
CHF CTE Coordinator	Mike McSweeney ...	619-884-5354	MMcSweeney@mychf.org
SMHS BITA Instructor	Chris Geldert.....	760 390 2388 ..	Chris.Geldert@SMUSD.org
The San Marcos Promise ..	Lisa Stout.....	760-290-2373 ..	Lisa@TheSanMarcosPromise.org

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If you would like more information about the Warrior Village Project visit our WarriorVillageProject.com website, or email Mark@WarriorVillageProject.com. You can also subscribe to our monthly [Newsletter](#).