



The Dirty Monkey Structure

(Or, "How to build an
experimental structure on a
shoestring budget")

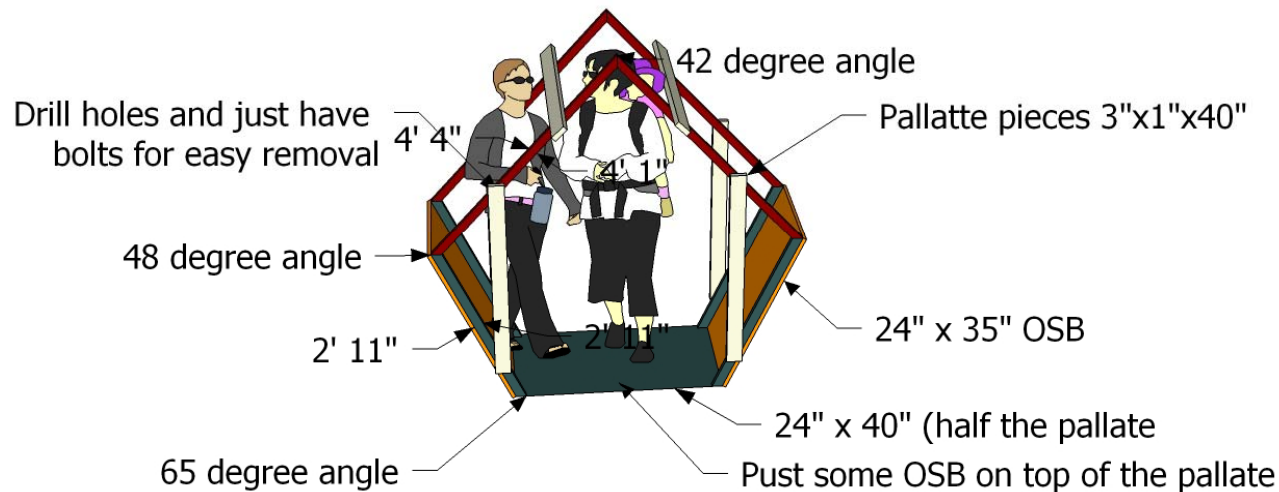
We have to do what?!

- Design a human scale physical model capable of demonstrating stabilizing systems
- Demonstrate 3-dimensional interplay of structural elements
- Support two team members
- The structure must contain three types of stabilizing systems
- CAN'T SPEND MORE THAN \$50!!



The design-build process – A&M style

- Unique form for a unique group



Shopping in strange places

- Hey, are you going to use that pallet??
- It counts as garbage if it is behind the store by the dumpster, right??



Working on a budget

- With a little duct tape, some wire, and a hammer, I can build anything!



Material acquisition

- Once we finished breaking down our supply materials, we started putting together the structure
- (Please ignore the large hammer)



Construction



More construction



It's starting to take shape



Hmm, we appear to have made it too strong...

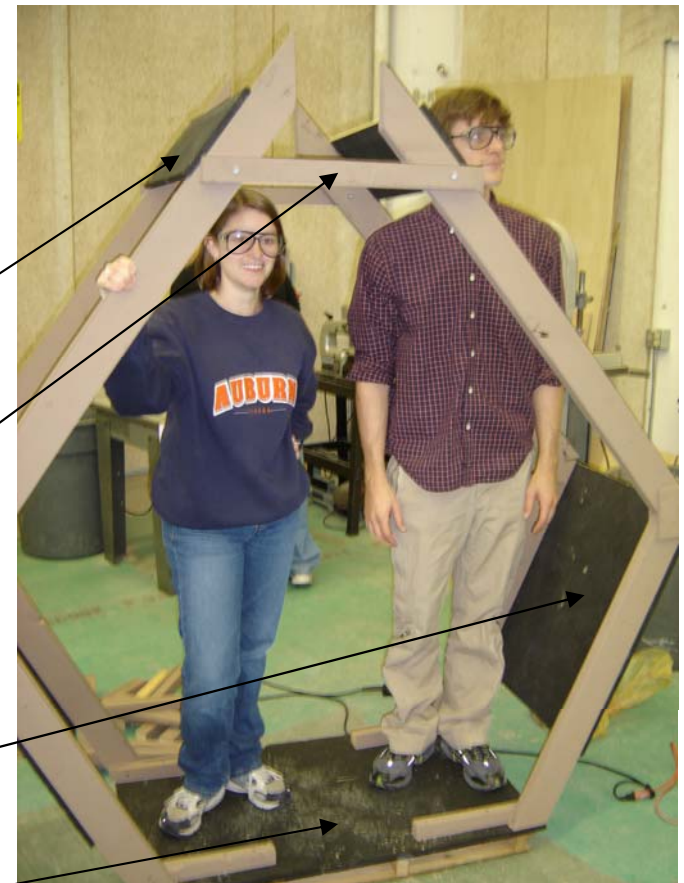
- Our original design proved to be too stable
- The reconfigured design better demonstrates stabilizing features

Stabilizing plate

Stabilizing bar

Shear panel

Load transmitting floor



Bad things happen when you take out stabilizers





Waiter, can we get the check?

- Wood – zero dollars
- Paint – zero dollars
- Labor – zero dollars
- Use of the wood shop – zero dollars
- Building one awesome structure – priceless!