

Teams,

The kits available from www.vexlabs.com and the field specifications represent the “official” FIRST Vex Challenge field that will be used at each event this year. However, this does NOT mean that you need to practice with these, or use these for your own events.

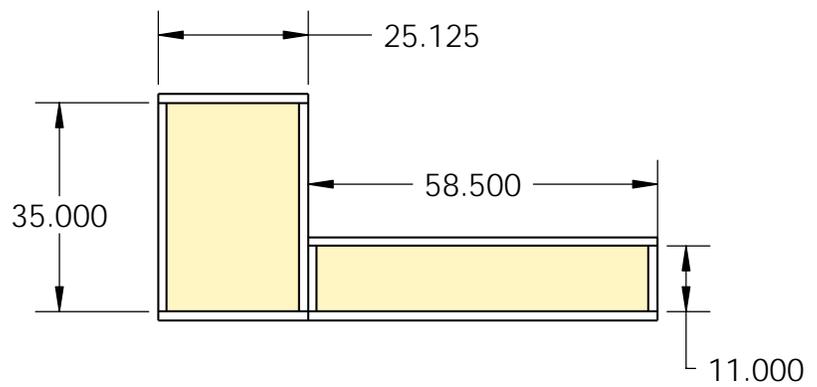
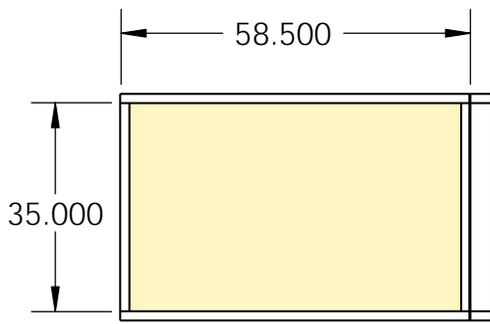
There are many ways to cost reduce the field, some of these options are outlined in this drawing package. The main principles to think about when cost reducing are:

- How much functionality am I willing to lose?
- How can I make this cheaper, while maintaining that functionality?

There is no option presented for a low-cost Ball-Feeder.

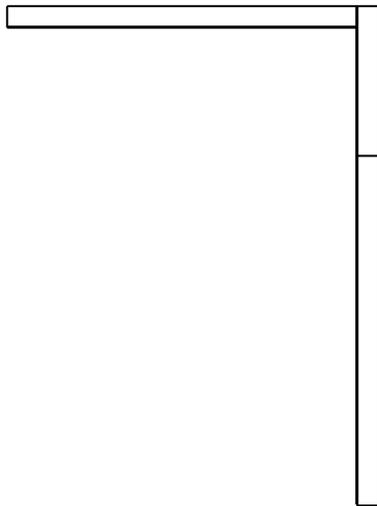
VexLABS has provided a Ball-Feeder-Lite kit that teams may purchase such that they may practice with the real ball-feeder interaction.

Good luck to all teams!

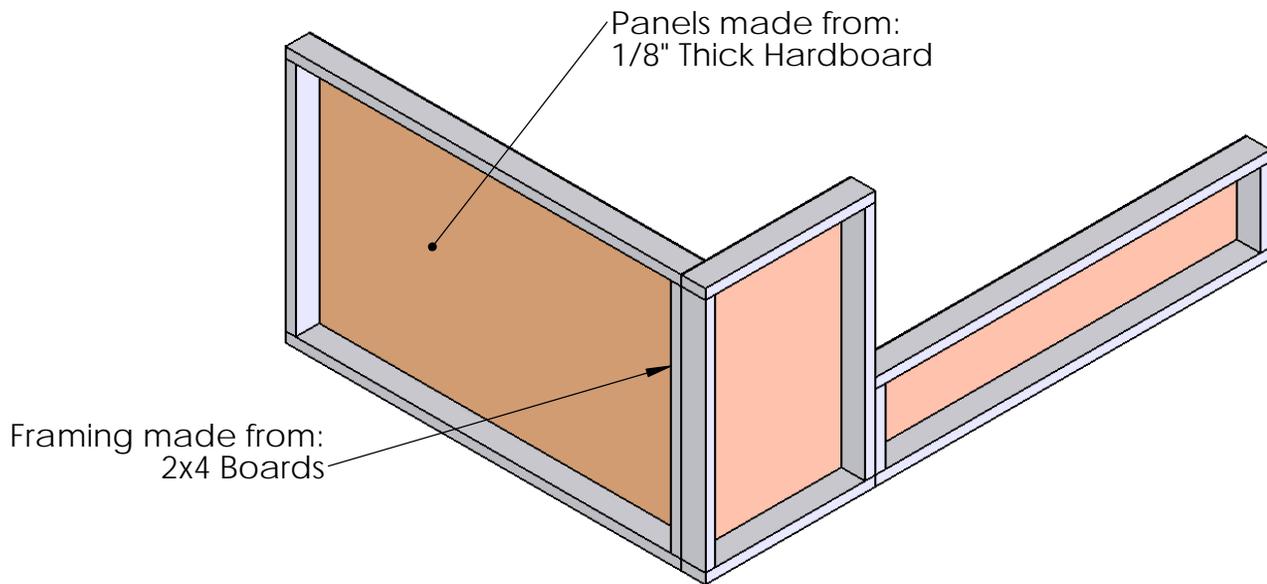


Attach all framing using 3" Long wood screws.

Attach panels to framing using 1-1/4" wood screws.



**Design Shows 1 Field Corner,
(4x) required for full field perimeter.**



This is one possible low-cost perimeter design. Other options are certainly available. Alternate perimeter types are also possible. A uniform low barrier may be adequate for certain applications.

Thanks to Joe Perrotto for this low-cost design.

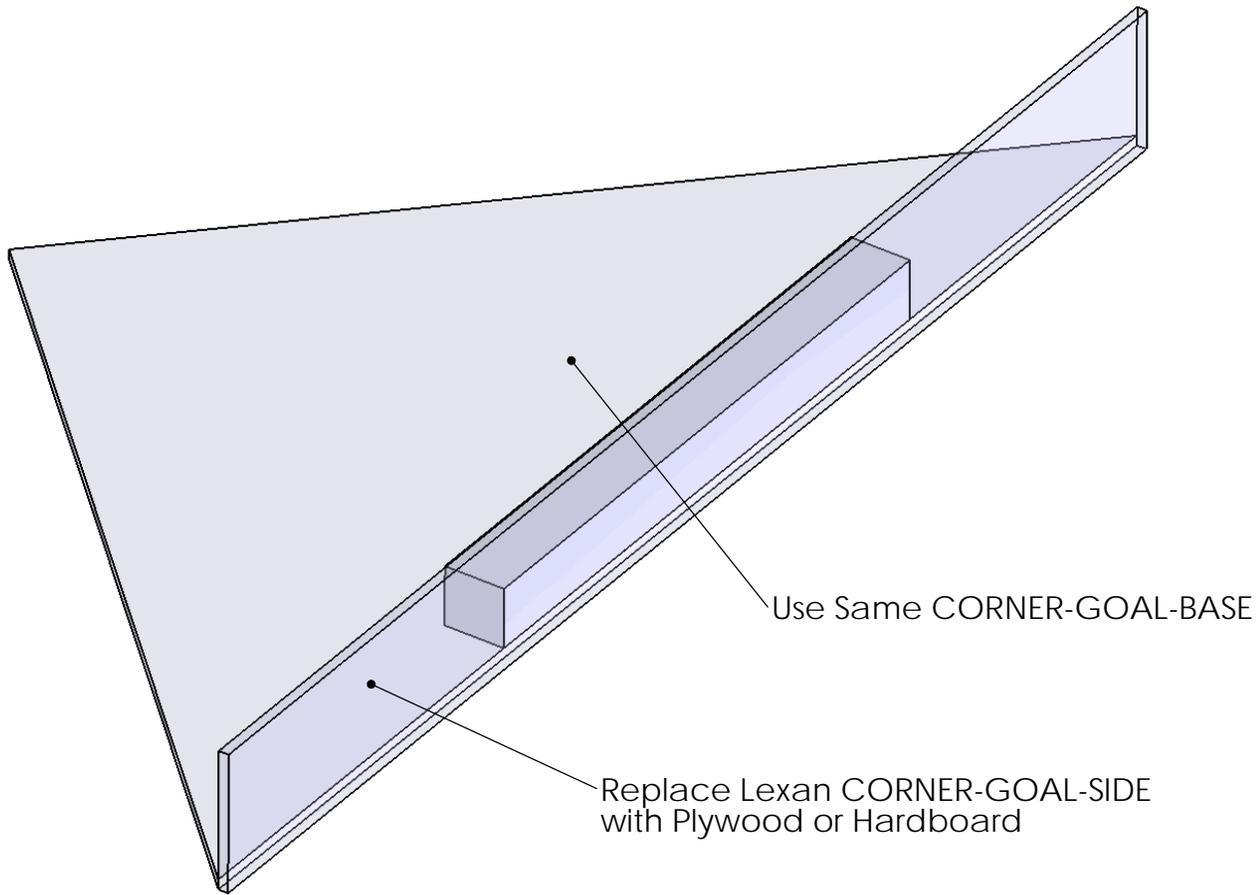
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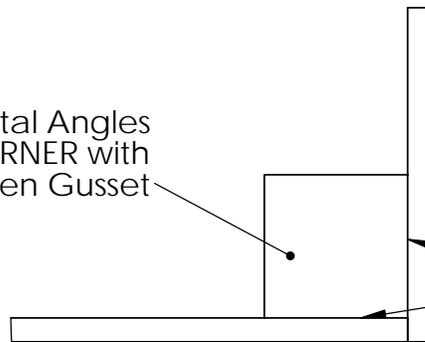
Low Cost Perimeter

Part Number

LOW-COST-PERIMETER



Replace Metal Angles
VL-FIELD-CORNER with
2x2 Wooden Gusset



Use Wood Screws to bolt
into CORNER-GOAL-SIDE
and CORNER-GOAL-BASE

Robot interaction with the corner goal will vary. Determine what level of structure and realism is necessary for practice/demonstrations and build accordingly.

Other Options:
Simply set up a barrier with the same height (3.5") as the CORNER-GOAL-SIDE made out of a low cost material. Use this to test robot scoring.

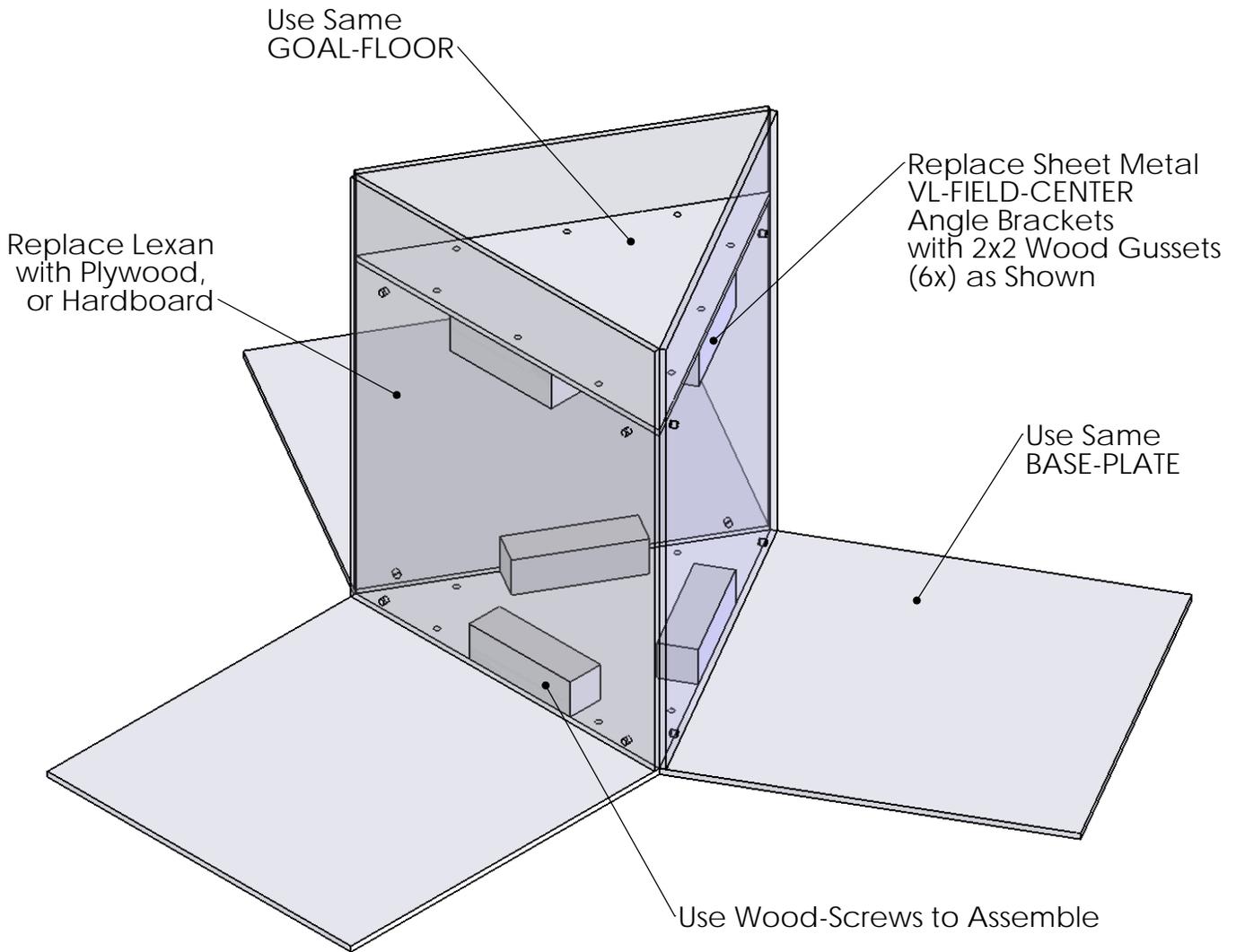
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Low Cost Corner Goal

Part Number

LOW-COST-CORNER



Robot interaction with the center goal will vary. Determine what level of structure and realism is necessary for practice/demonstrations and build accordingly.

Other Options:

Form a center goal with the same general shape of the actual one using cardboard and duct tape. This will simulate scoring heights for robot practice.

Other Options:

Find a trashcan, or similar object, and position it such that it's rim is 18" off the ground. This will simulate scoring height for robot practice.

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Build Low Cost Version of AUTO-CENTER in the same manner.

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Low Cost Center Goal

Part Number

LOW-COST-CENTER