

TOP VIEW

5

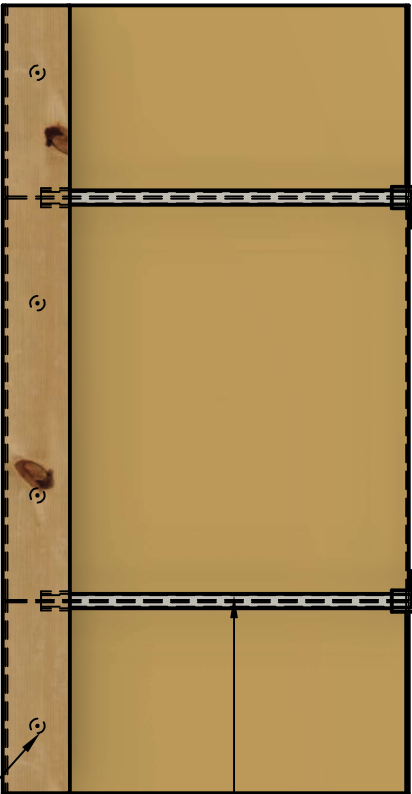
2

6

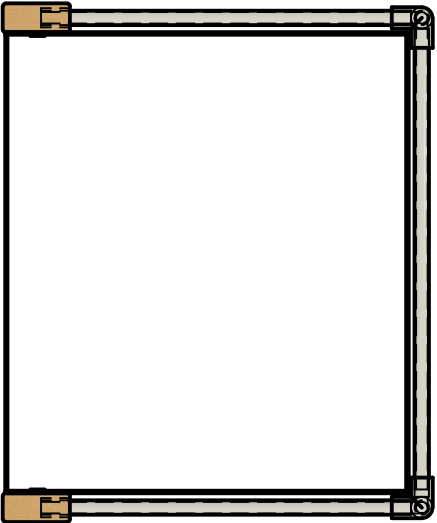
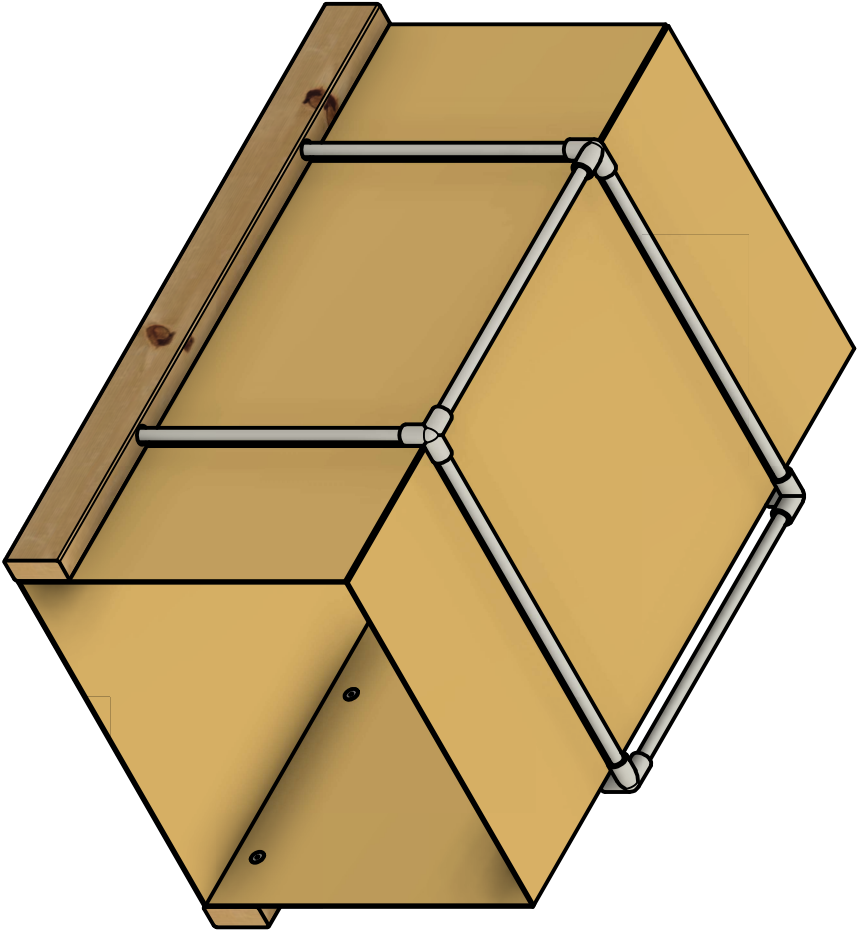
1

4

7



FRONT VIEW



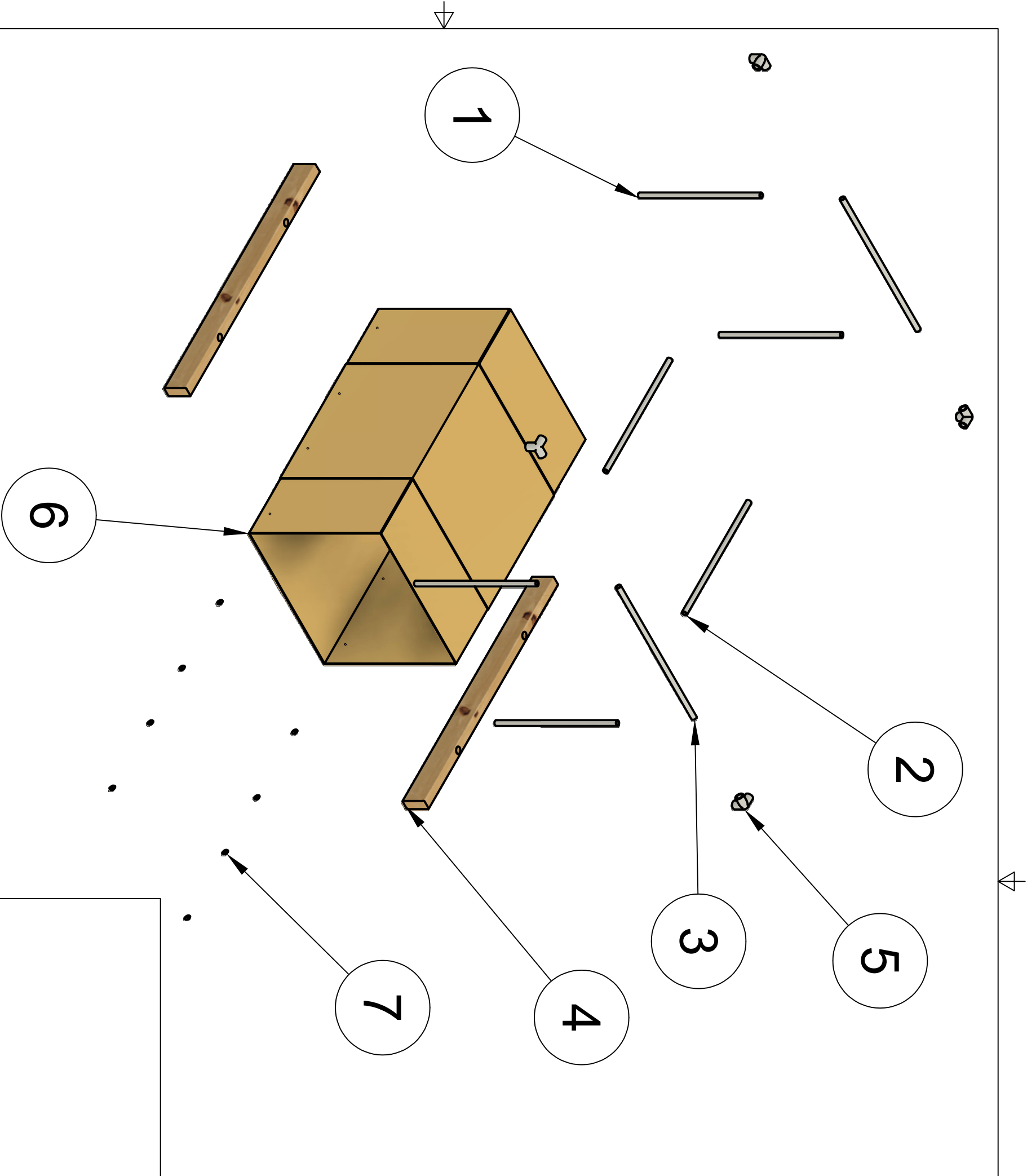
SIDE VIEW

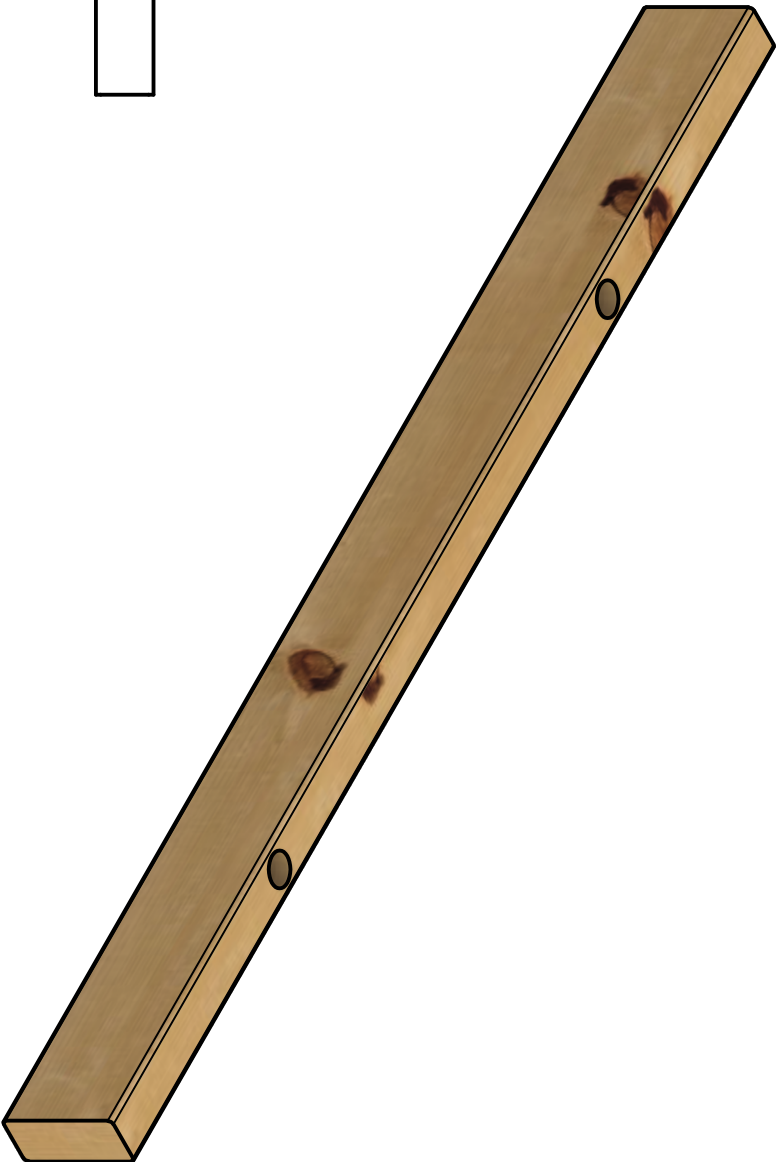
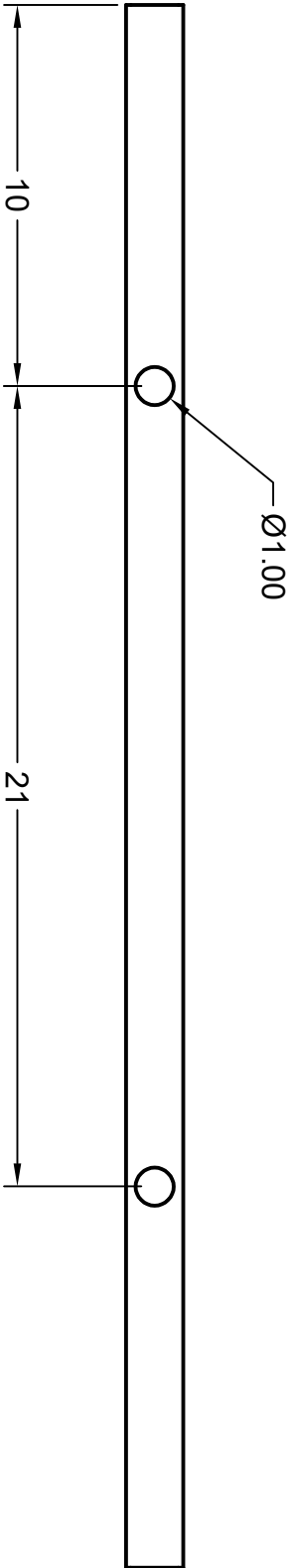
		PROJECT			
		4-H Engineering Challenge Comp Specs			
		TITLE			
		Box Frame			
APPROVED		SIZE	CODE	DWG NO	
CHECKED		B			
DRAWN	Zachary Spurrier	4/5/2022	SCALE 1:16	WEIGHT	SHEET 1/1

PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	.75 X 19.25 IN PIPE
2	2	.75 X 20.375 IN PIPE
		PIPE
3	2	.75 X 24 IN PIPE
4	2	41 IN 2 BY 4
5	4	.75 IN PVC SIDE OUTLET ELBOW
6	1	BOX
7	8	1/8 X 3/4 IN ZINC PLATED WASHER

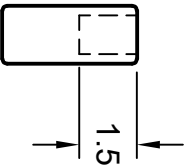
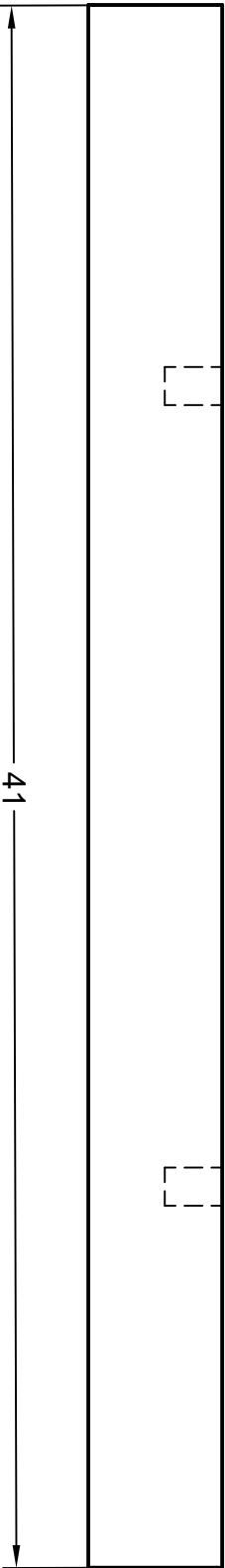
8 total - #8 x 1in screws to attach box to 2 x 4's

		PROJECT		
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APPROVED		SIZE	CODE	DWG NO
CHECKED		B		
DRAWN	Zachary Spurrier	4/5/2022	SCALE 1:14	WEIGHT
			SHEET	1/1

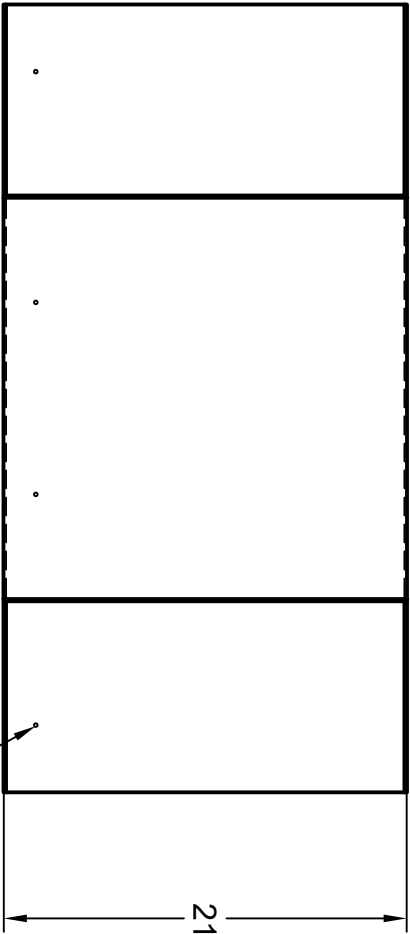
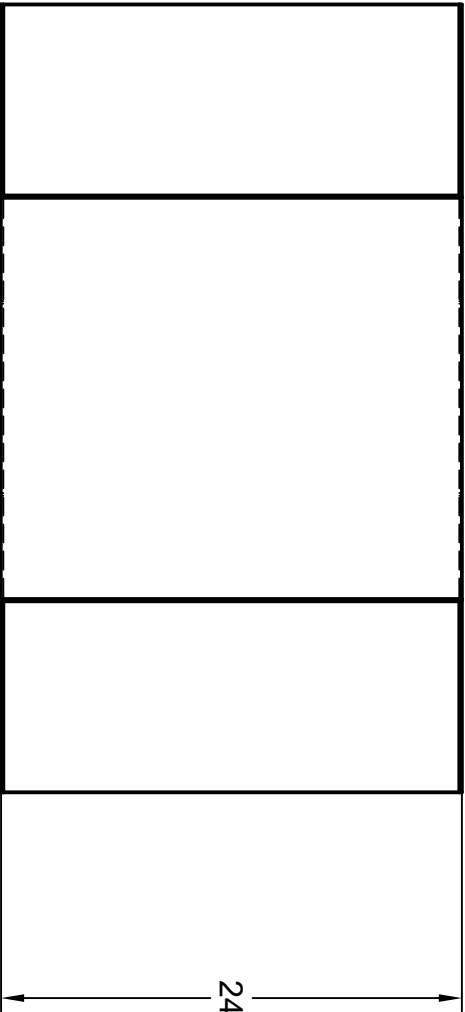




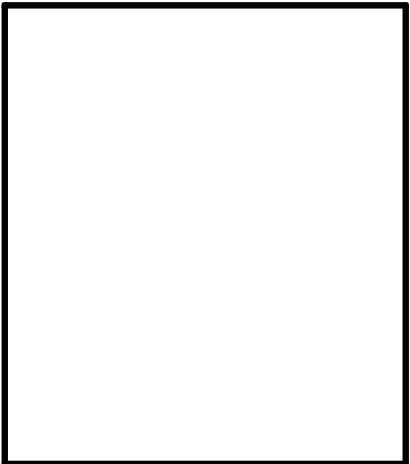
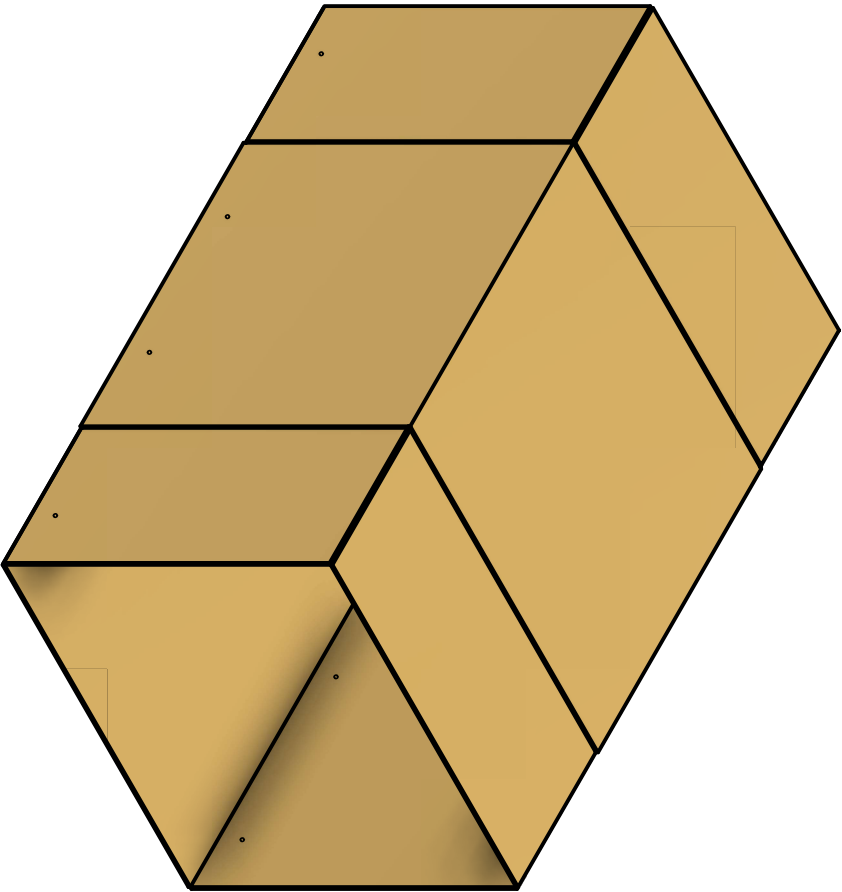
NORMAL 2 X 4 DIMENSIONS



		PROJECT			
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		TITLE			
		SIZE	CODE	DWG NO	REV
APPROVED					
CHECKED		B			
DRAWN	Zachary Spurrier	4/4/2022	SCALE 1:10	WEIGHT	SHEET 1/1



No specific Dimensions  
ONE SCREW ON EACH FLAP  
2 SCREWS ON EACH SIDE  
OF UNFOLDED



		PROJECT			
		4-H Engineering Challenge Comp Specs			
		TITLE			
		Box Frame			
APPROVED		SIZE	CODE	DWG NO	REV
CHECKED		B			
DRAWN	Zachary Spurrier	4/4/2022	SCALE 1:10	WEIGHT	SHEET 1/1

## **Where to buy REC Field Elements**

**Spat Tank:** 24" Diameter Kess Ice Hoop, Iridescent Hula Hoop for Kids and Adults:

<https://www.walmart.com/ip/337790342>

**Shellfish Cage:** Mainstays Large White Decorative Plastic Storage Basket, 15" x 12"

<https://www.walmart.com/ip/166906356>

***Manufacturer Part #:*** MS85-361-018-75

**Chesapeake Bay Floor Reef Harvest Area:** Home Depot Cardboard Box

<https://www.homedepot.com/p/The-Home-Depot-24-in-L-x-20-in-W-x-21-in-D-Heavy-Duty-Extra-Large-Moving-Box-with-Handles-HDXLBX/316250863>

***Internet #:*** 316250863

***Model #:*** HDXLBX

***Store SKU #:*** 1006193408

**Pearls:** Plastic Golf Wiffle Balls

<https://www.walmart.com/ip/seort/102641603>

***Manufacturer Part #:*** WM122

### **NOTE ABOUT WOOD BLOCK FIELD ELEMENTS (Oyster Shells & Live Oysters):**

Lumber bought at most hardware and home improvement stores are NOT sized exactly as they are labeled. The sizes that lumber pieces are often labeled as in stores (i.e. 2x4, 1x6, etc.) are actually LARGER than their actual measured size when purchased. This is because during final production and processing, the size of lumber is measured *before* it has been smoothed and finished on its sides. As a result, 2x4 lumber boards are actually 1.5" thickness x 3.5" width in size, and can be cut easily to whatever length needed. For the Oyster Shells and Live Oysters, the intention is **not** for each board to require cuts on multiple sides to achieve the correct size.

The red and blue Oyster Shells are intended to be sized according to the actual dimensions of a 2x3 (which is 1.5" x 2.5"), which can also be created by cutting an "off-the-shelf" 2x6 from the store in half. **This would mean each Oyster Shell's "actual" physical dimensions would then approximately be 1.5" thick x 2.5" wide x 2" long.**

The black Live Oysters are intended to be sized from according to the actual dimensions of an "off-the-shelf" 2x4 from the store (which is 1.5" x 3.5"), and can be cut using such. **This would mean each Live Oyster's "actual" physical dimensions would then approximately be 1.5" thick x 3.5" wide x 3" long.**

