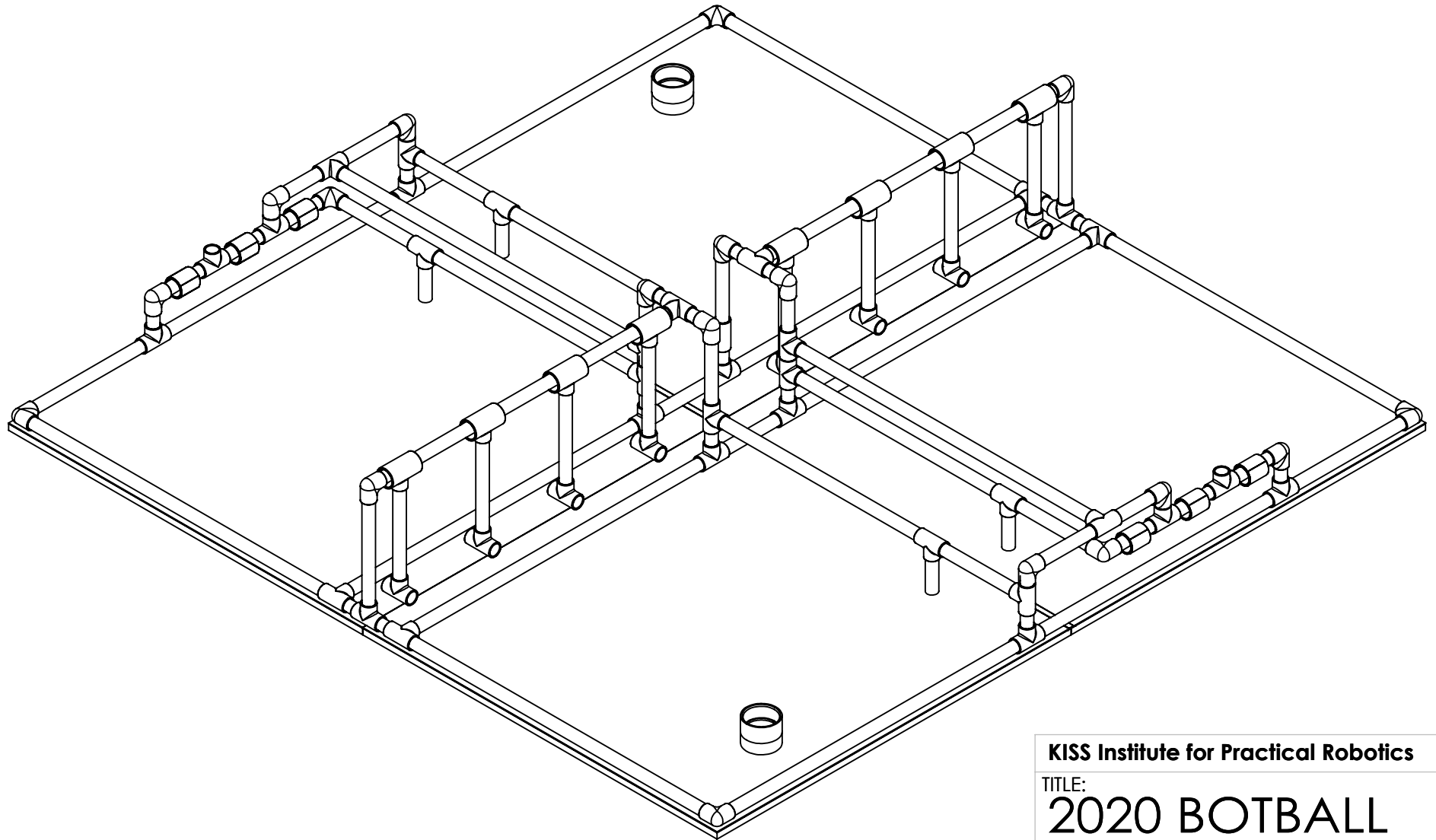


B

B

A

A



KISS Institute for Practical Robotics

TITLE:

2020 BOTBALL  
PVC BUILD

SIZE

**A**

DWG. NO.

Full Assembly

REV

SCALE: 1:14

SHEET 1 OF 10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1.875 inch PVC	1" ID SCH 40	6
2	3.000 inch PVC	1" ID SCH 40	8
3	3.500 inch PVC	1" ID SCH 40	8
4	5.000 inch PVC	1" ID SCH 40	4
5	5.750 inch PVC	1" ID SCH 40	2
6	6.625 inch PVC	1" ID SCH 40	8
7	9.000 inch PVC	1" ID SCH 40	4
8	9.125 inch PVC	1" ID SCH 40	2
9	11.500 inch PVC	1" ID SCH 40	4
10	12.500 inch PVC	1" ID SCH 40	8
11	14.000 inch PVC	1" ID SCH 40	2
12	16.625 inch PVC	1" ID SCH 40	2
13	28.500 inch PVC	1" ID SCH 40	4
14	33.000 inch PVC	1" ID SCH 40	2
15	40.625 inch PVC	1" ID SCH 40	8
16	41.375 inch PVC	1" ID SCH 40	6
24	FRP 4' x 4'	White - cut from two 4' x 8' sheets	4
25	FRP Divider 48" long	White - cut from one 8' long part	2
26	Masonite 4'x8'	Brown hardboard panel	1
27	PVC Coupler	1.5" ID SCH 40	6
28	PVC Coupler	3" ID SCH 40 - Diam: 4", Height: 3.2", Weight: 7.48 oz	2
29	PVC Elbow	1" ID SCH 40	18
30	PVC T Connector	1" ID SCH 40	42
31	PVC T Connector	1.5" ID x 1" ID SCH 40	8
33	Particle Board 4' x 4' x 3/8" thick	or similar - can be cut from two 4' x 8' sheets	4
34	Whitewood Board 1x2 6'	Actual Dim: 0.75" x 1.5" x 6'	1

**Note: All PVC Couplers, Elbows, and T Connectors used by KIPR are LASCO brand (except the 3" coupler which is Charlotte). These can typically be found at a Lowes or ordered through them online.**

[Click here](#) to see the list at Lowes.

**PVC Note: Assuming cuts remove 1/8" of PVC, teams will need 10 lengths of 10' PVC pipe.**

**Wood Note: The use of items 26 and 34 will be released at the workshop. Teams should get item 26 cut shortways as seen in the addendum on the last page.**

#### KISS Institute for Practical Robotics

TITLE:

## 2020 BOTBALL PVC BUILD

SIZE

**A**

DWG. NO.

PVC Build BOM

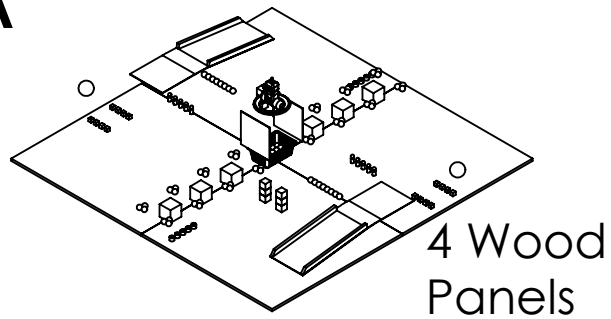
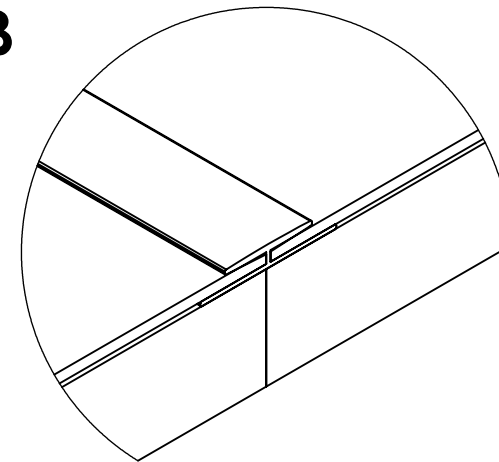
REV

SCALE: N/A

SHEET 2 OF 10

2

1

**A****B**

SCALE 1 : 1  
FRP Slides into Divider

FRP

**B**

FRP Divider

KISS Institute for Practical Robotics

TITLE:

2020 BOTBALL  
PVC BUILD

SIZE

**A**

DWG. NO.

Game Surface

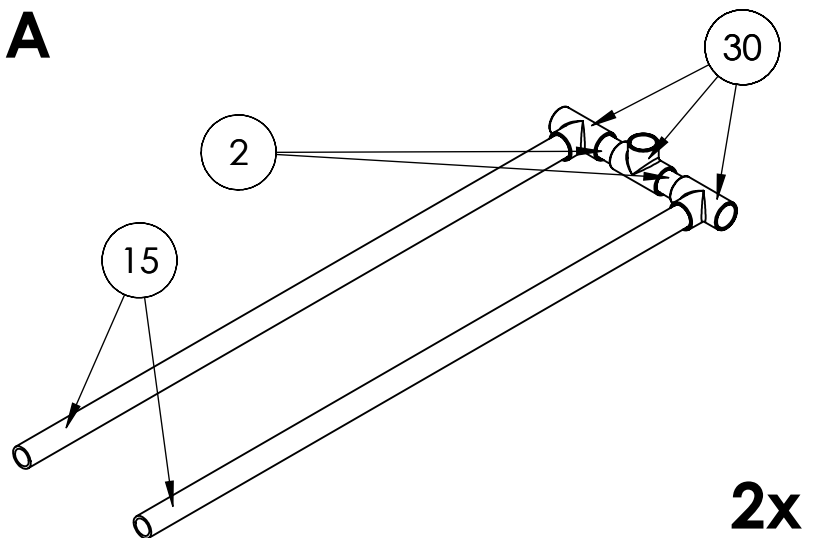
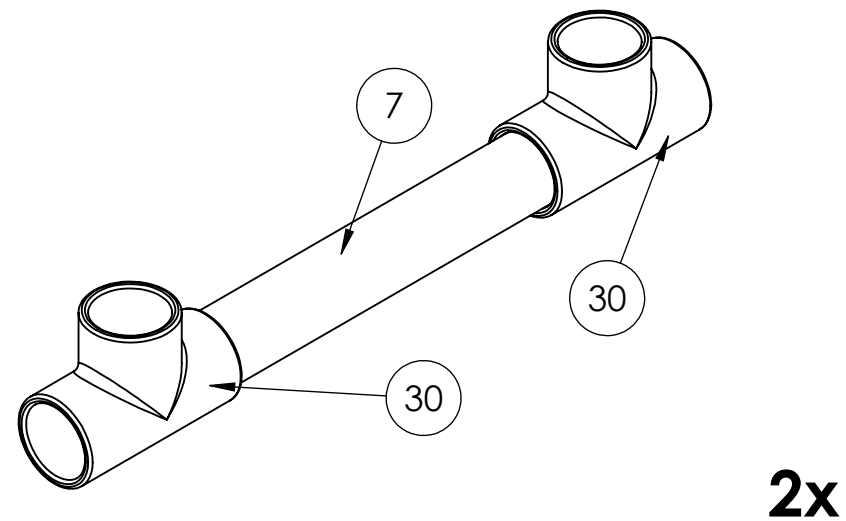
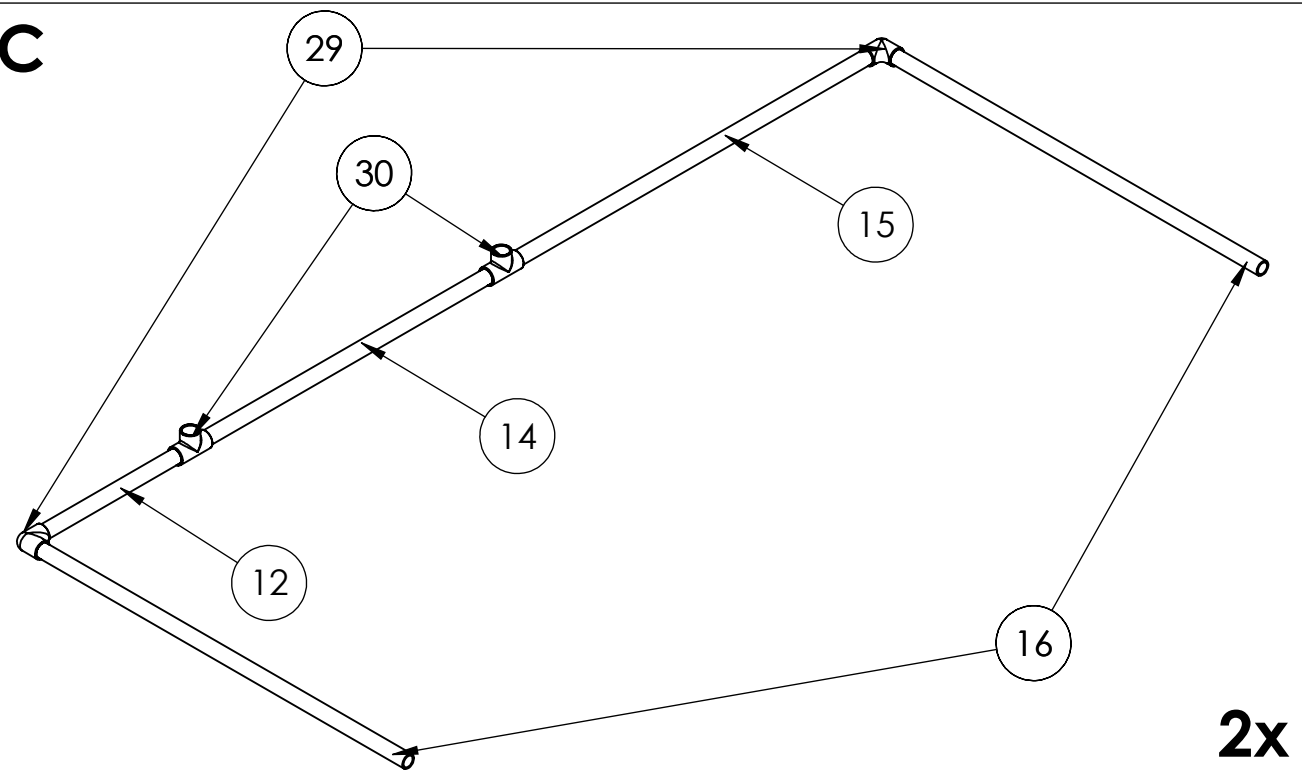
REV

SCALE: VARIED

SHEET 3 OF 10

2

1

**A****B****C****2x****KISS Institute for Practical Robotics**

TITLE:

**2020 BOTBALL  
PVC BUILD**

SIZE

**A**

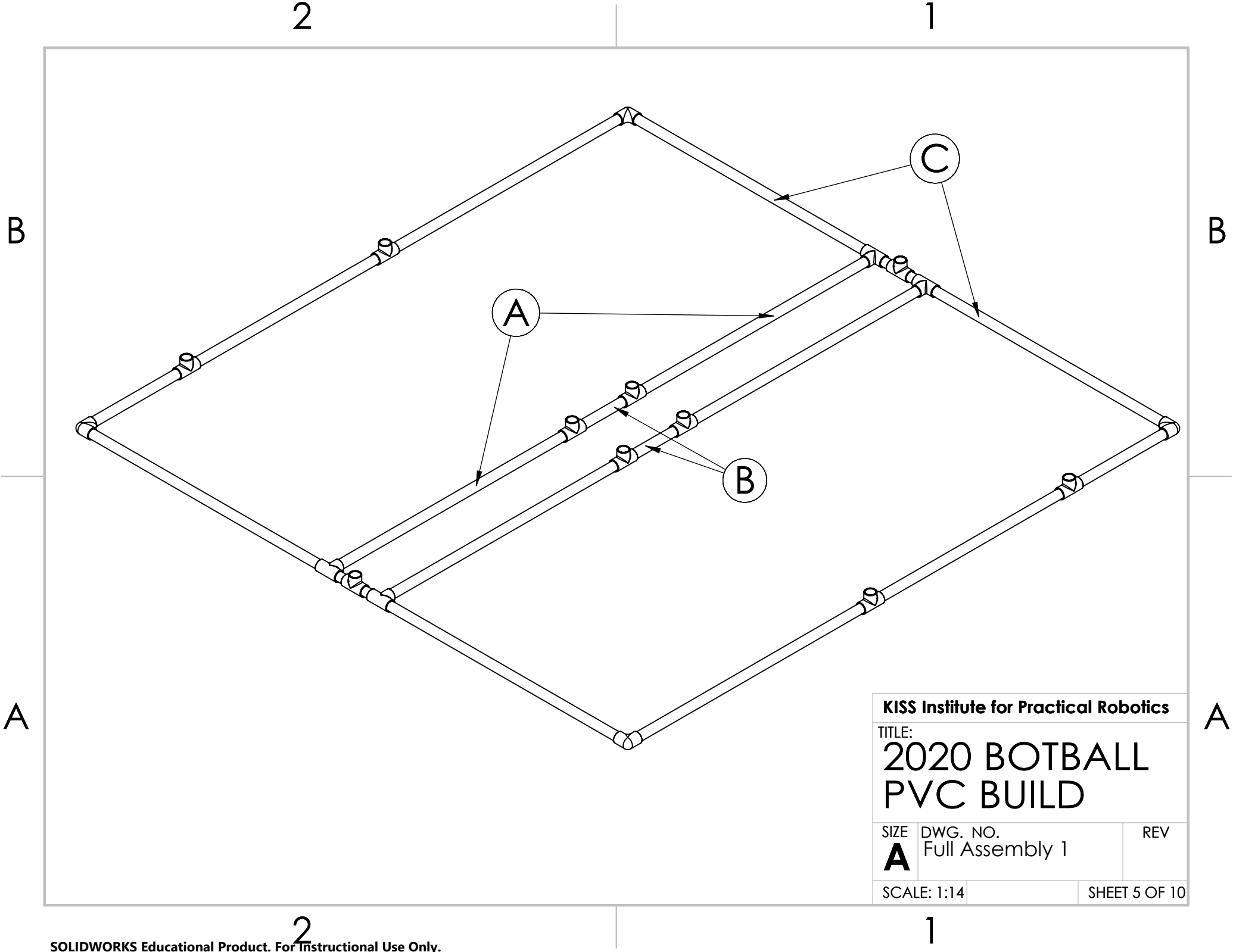
DWG. NO.

Assembly 1

REV

SCALE: VARIED

SHEET 4 OF 10



KISS Institute for Practical Robotics

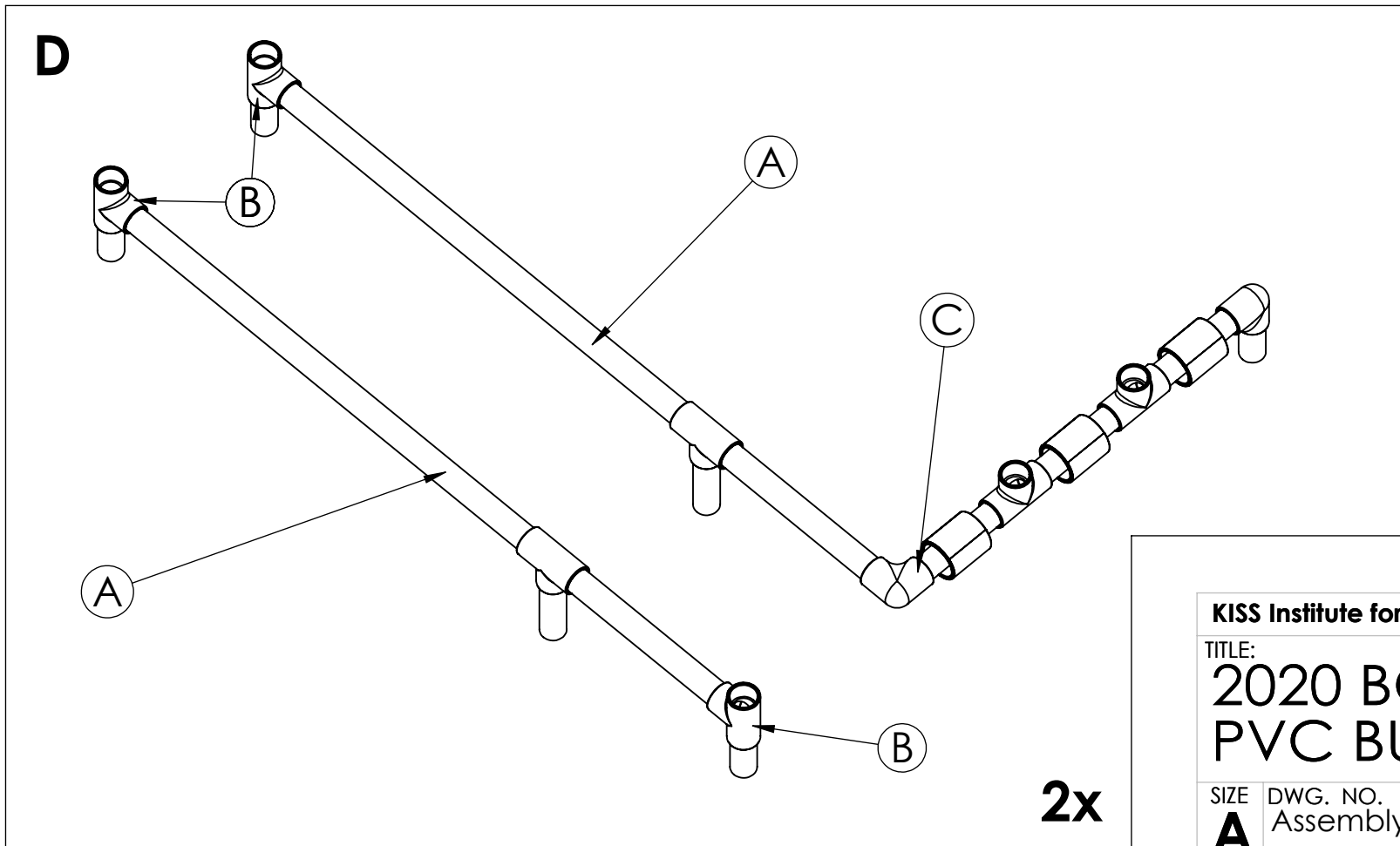
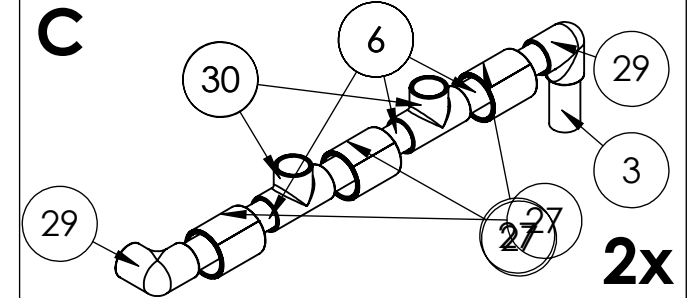
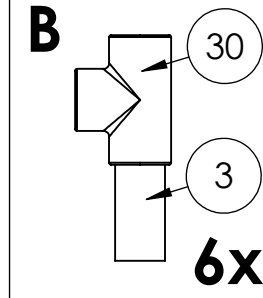
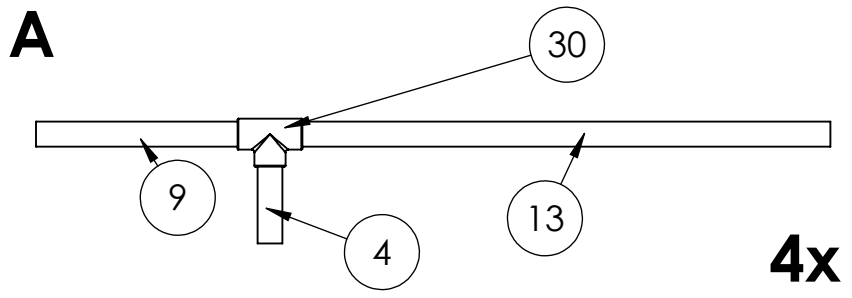
TITLE:  
**2020 BOTBALL  
PVC BUILD**

SIZE <b>A</b>	DWG. NO. Full Assembly 1	REV
------------------	-----------------------------	-----

SCALE: 1:14	SHEET 5 OF 10
-------------	---------------

2

1



KISS Institute for Practical Robotics

TITLE:

2020 BOTBALL  
PVC BUILD

SIZE

**A**

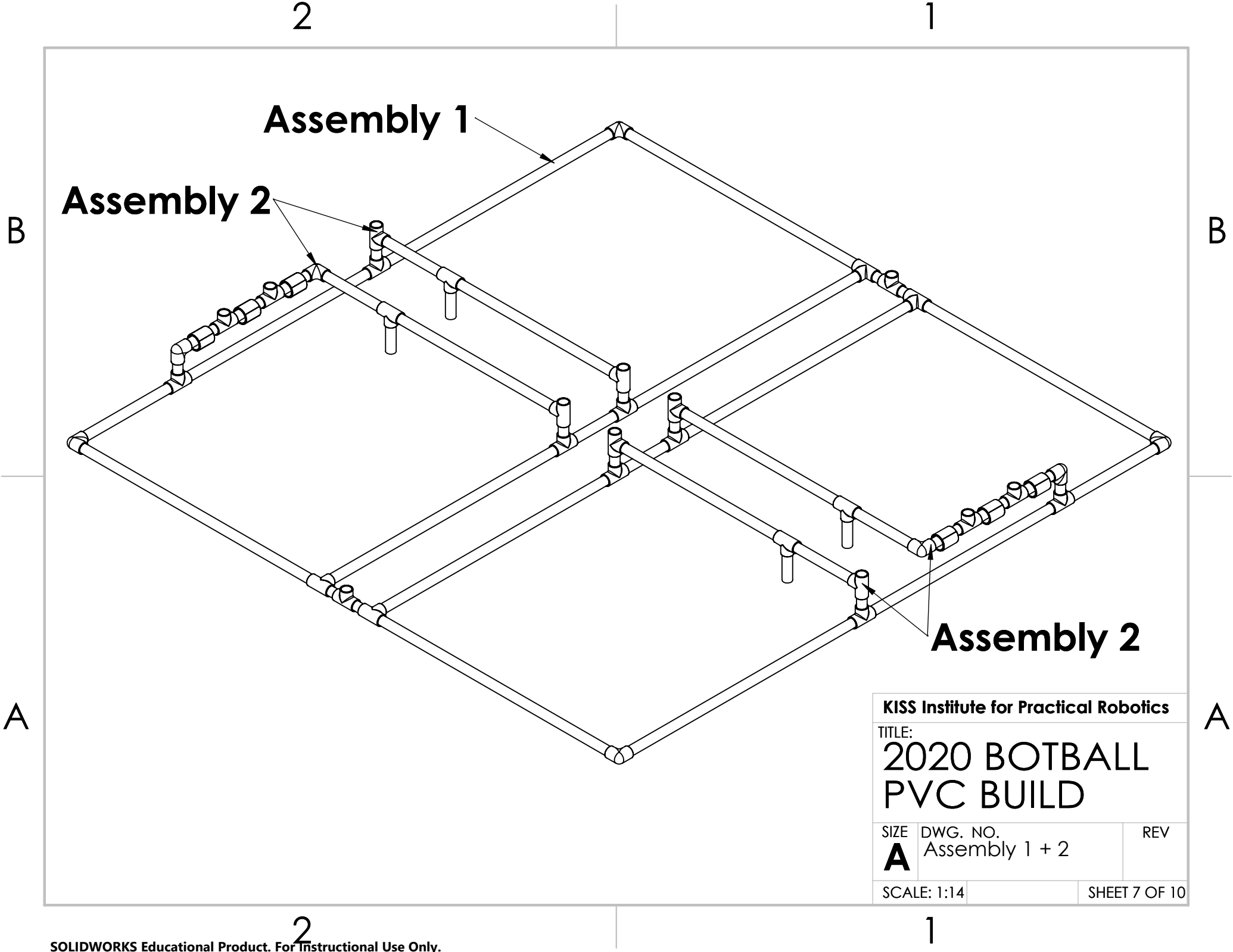
DWG. NO.

Assembly 2

REV

SCALE: VARIED

SHEET 6 OF 10



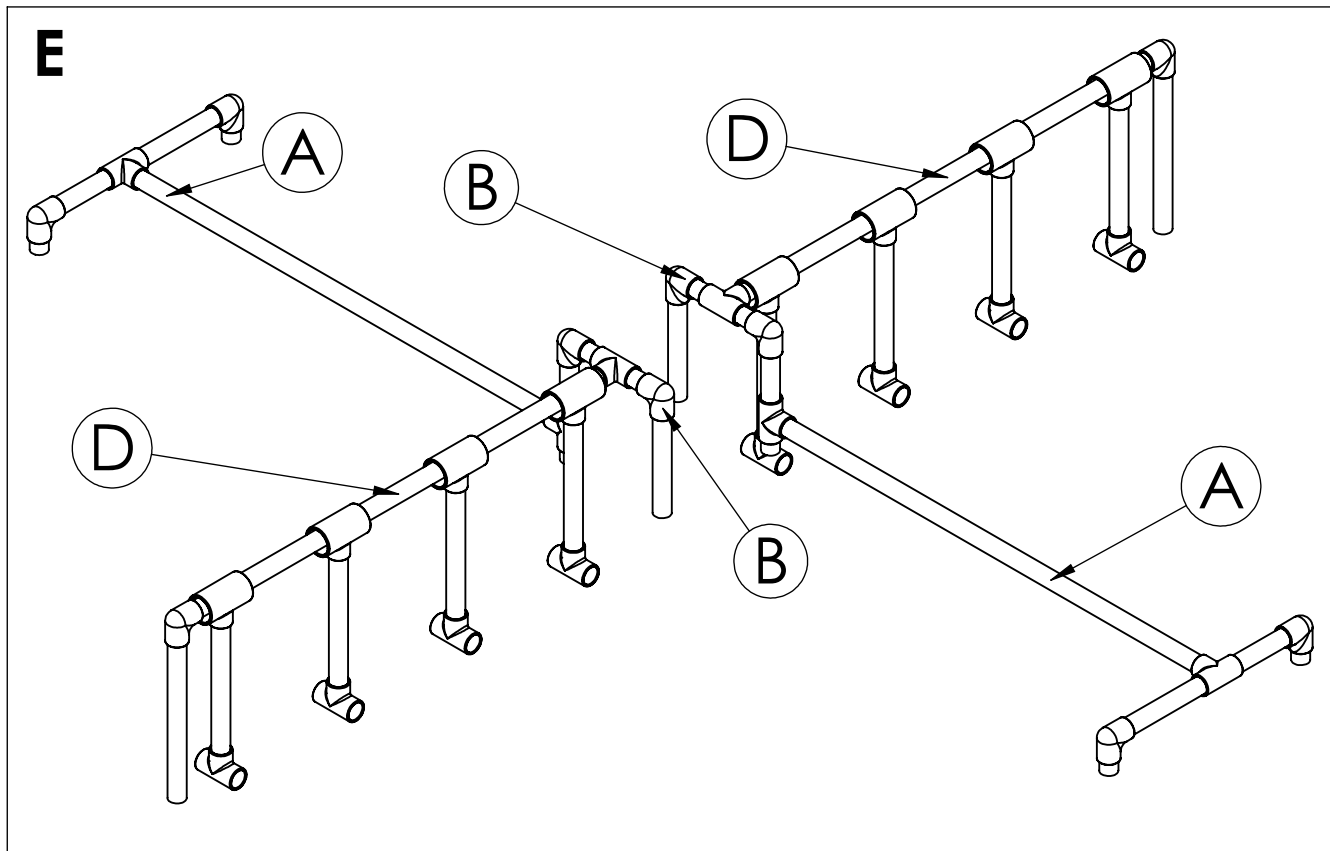
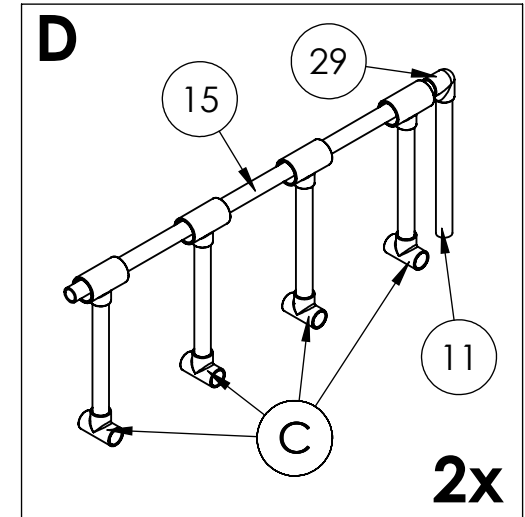
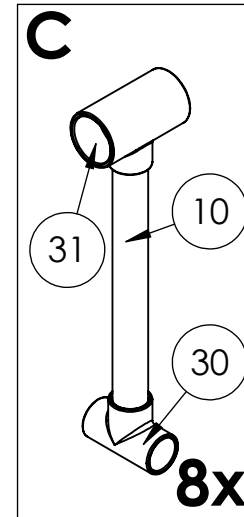
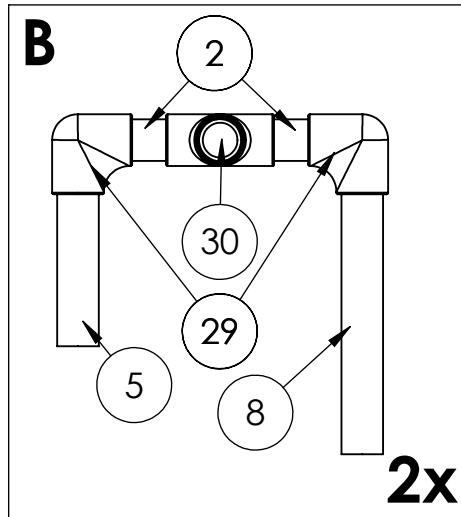
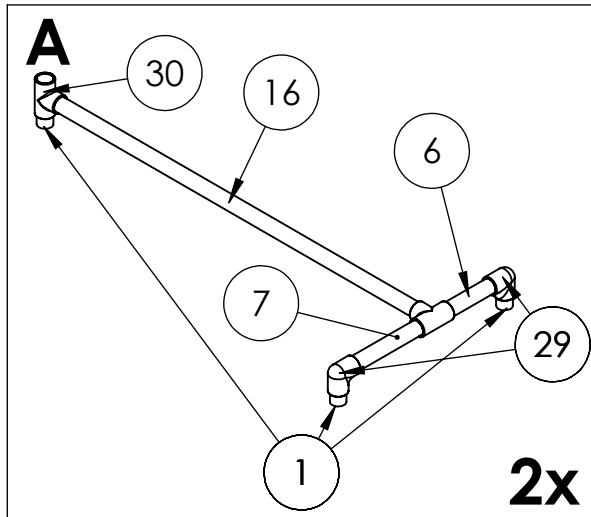
KISS Institute for Practical Robotics		
TITLE: 2020 BOTBALL PVC BUILD		
SIZE <b>A</b>	DWG. NO. Assembly 1 + 2	REV
SCALE: 1:14	SHEET 7 OF 10	

2

1

B

B



A

KISS Institute for Practical Robotics

TITLE:

# 2020 BOTBALL PVC BUILD

SIZE

**A**

DWG. NO.

Assembly 3

REV

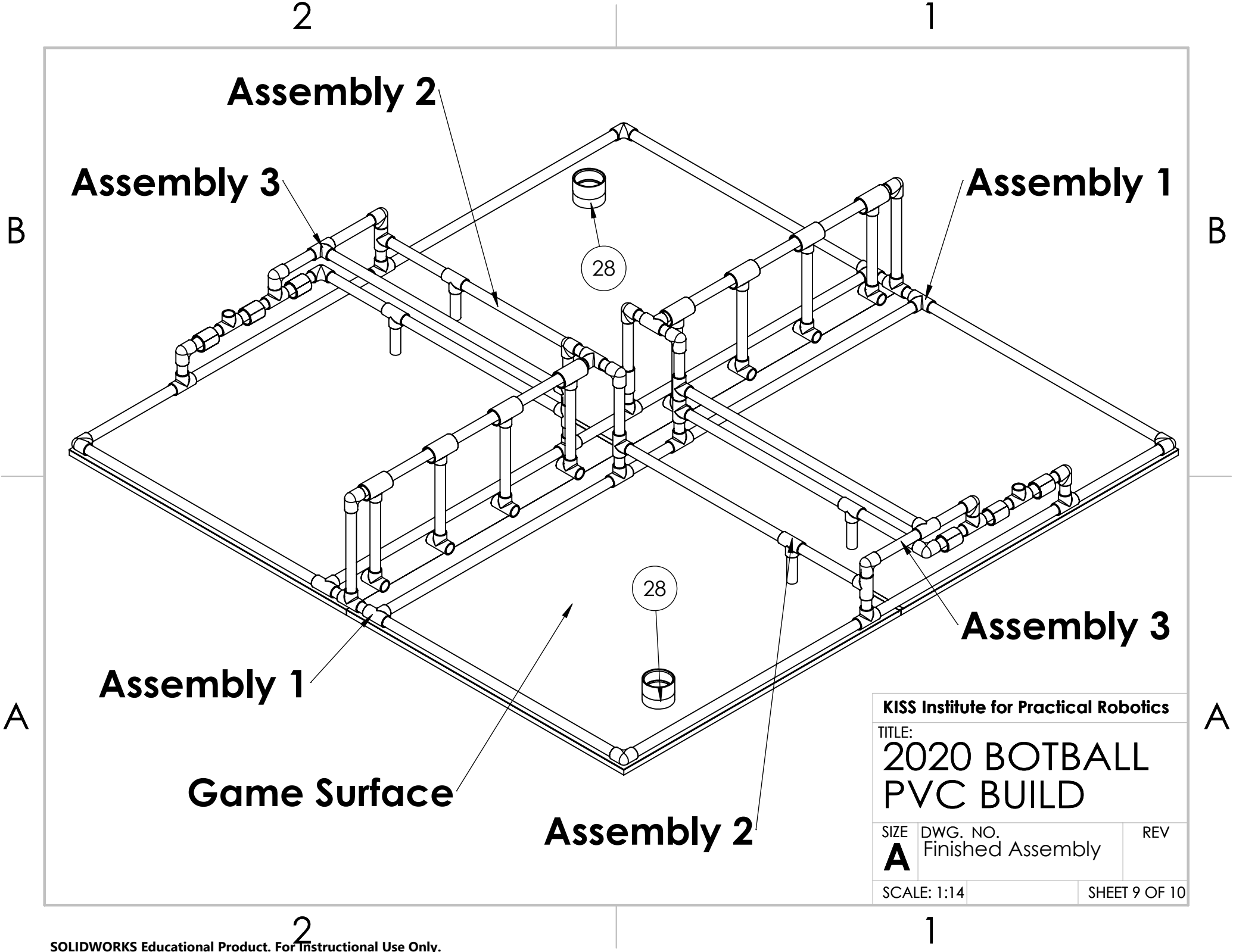
SCALE: VARIED

SHEET 8 OF 10

2

1



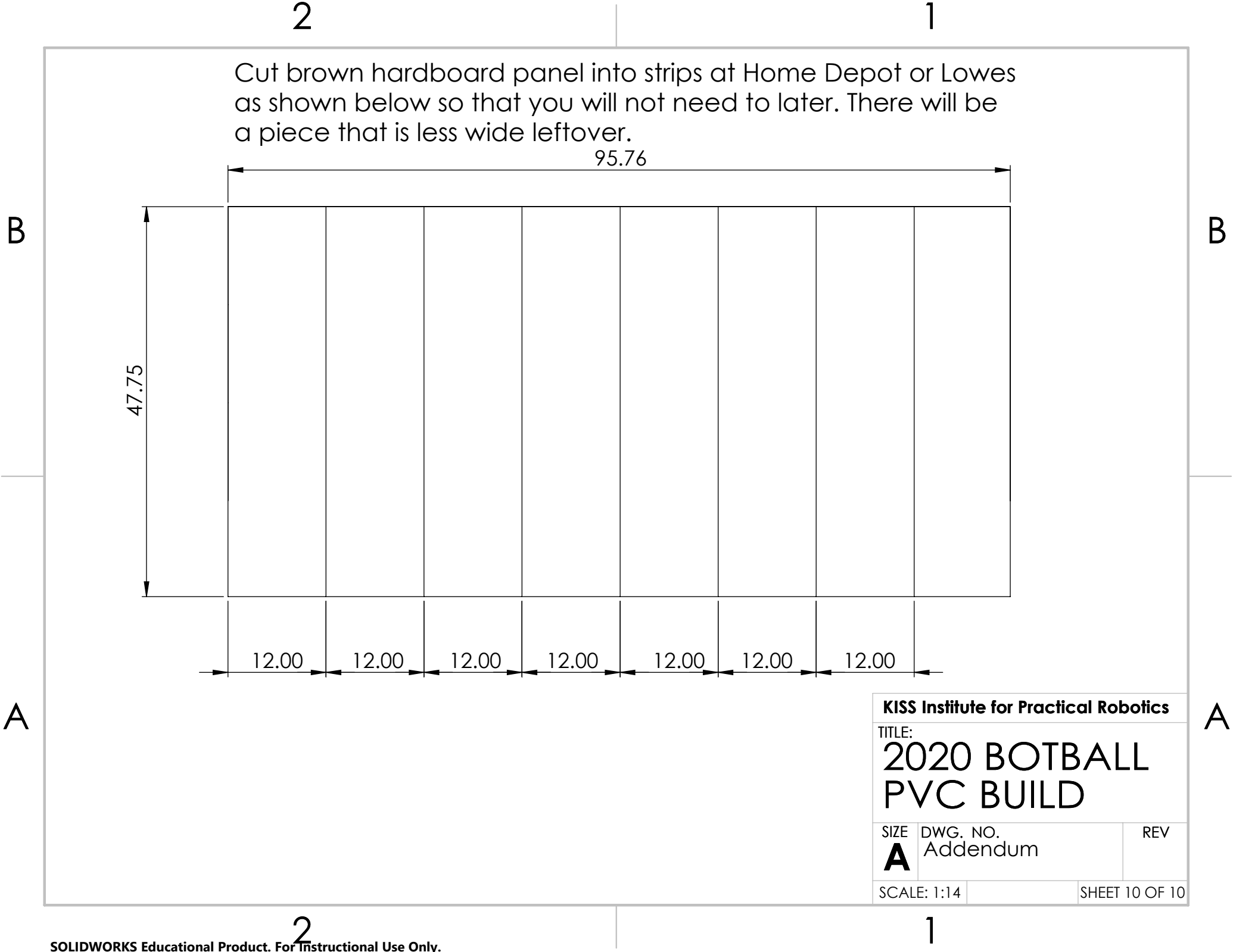


KISS Institute for Practical Robotics

TITLE:  
**2020 BOTBALL  
PVC BUILD**

SIZE <b>A</b>	DWG. NO. Finished Assembly	REV
------------------	-------------------------------	-----

SCALE: 1:14	SHEET 9 OF 10
-------------	---------------



KISS Institute for Practical Robotics		
TITLE: 2020 BOTBALL PVC BUILD		
SIZE <b>A</b>	DWG. NO. Addendum	REV
SCALE: 1:14		SHEET 10 OF 10