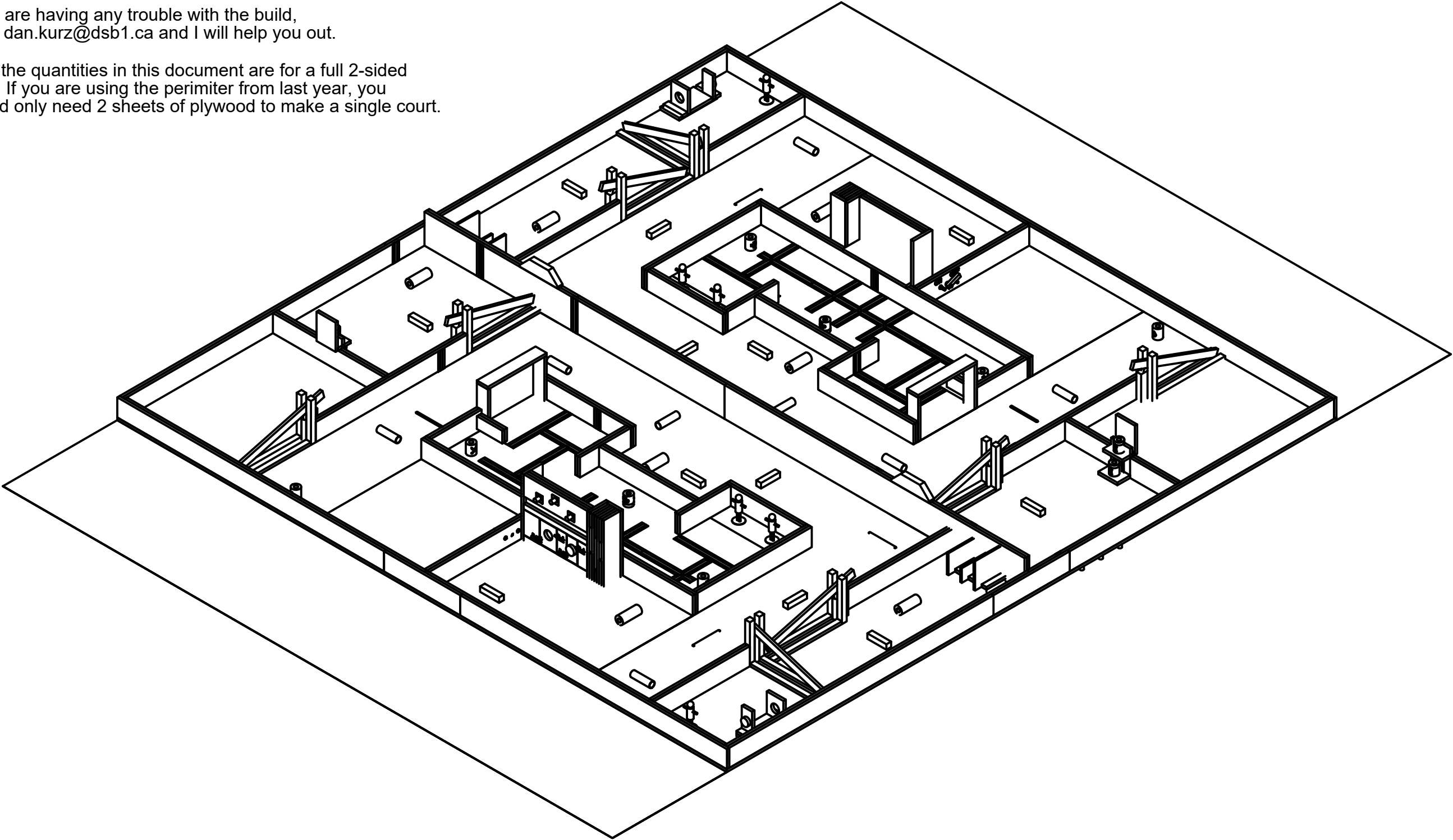


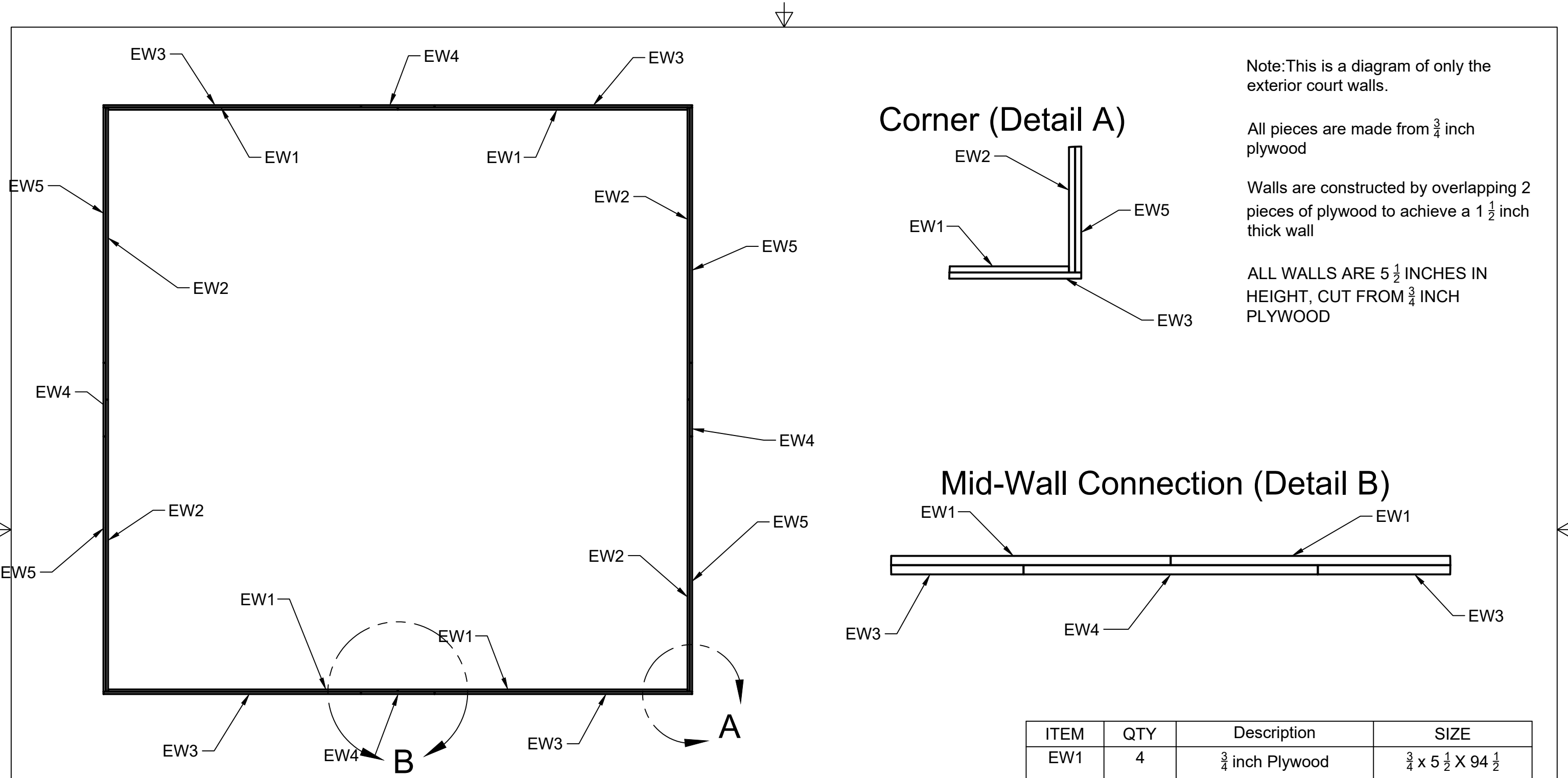
This Document has been anotated for Ontario by Dan Kurz.

If you are having any trouble with the build,
email dan.kurz@dsb1.ca and I will help you out.

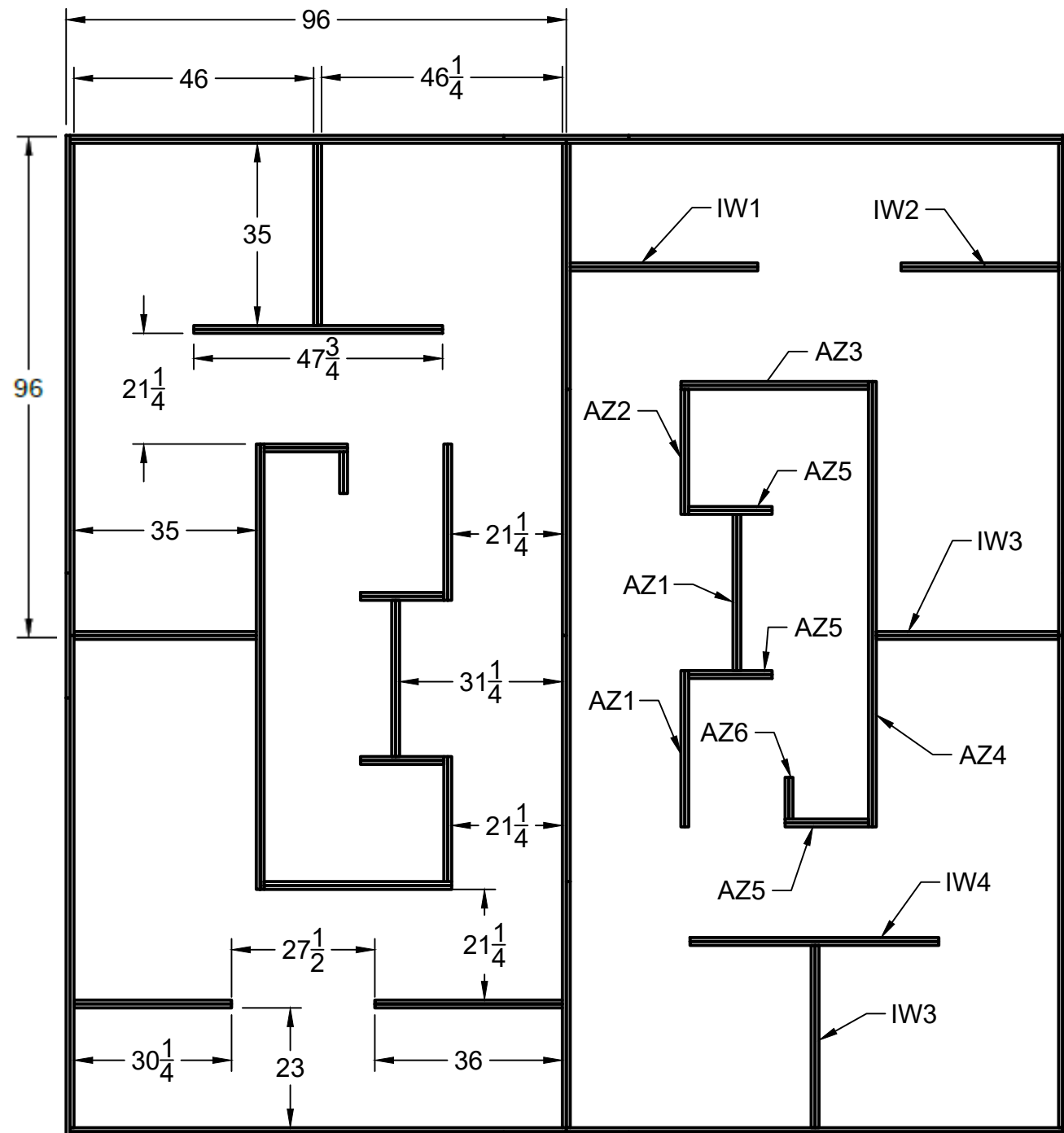
All of the quantities in this document are for a full 2-sided
court. If you are using the perimeter from last year, you
should only need 2 sheets of plywood to make a single court.



PROJECT: Skills Nationals 2026	DRAWING NUMBER: 1/2	SCALE: 1:24		Mobile Robotics National Drawings Toronto, Ontario May 28 and May 29, 2026
DRAWING TITLE: 2025-2026 Court	DRAWN BY: Steve Claassen	DATE: 2025-06-29		



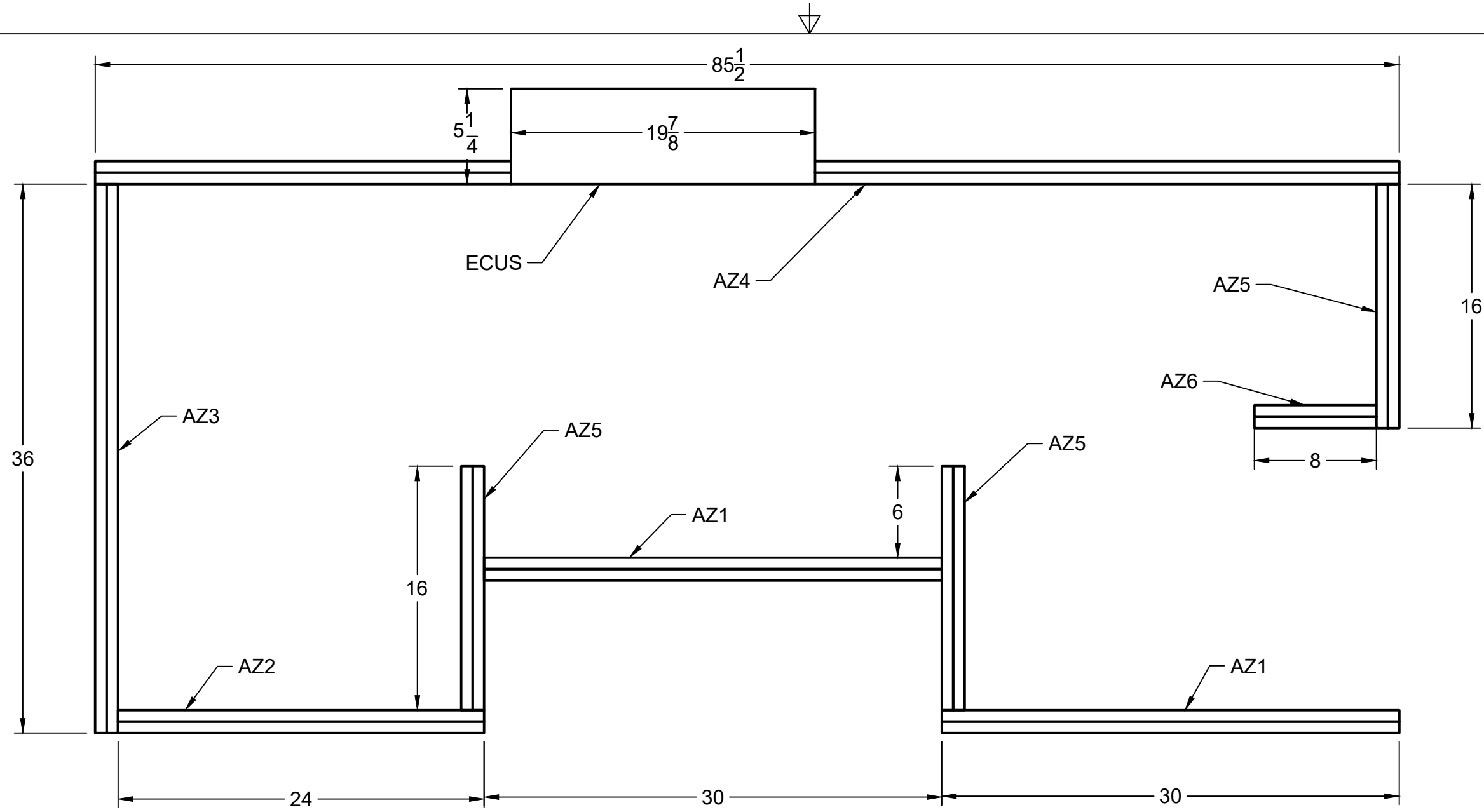
ITEM	QTY	Description	SIZE
EW1	4	3/4 inch Plywood	3/4 x 5 1/2 X 94 1/2
EW2	4	3/4 inch Plywood	3/4 x 5 1/2 X 95 1/4
EW3	4	3/4 inch Plywood	3/4 x 5 1/2 X 84
EW4	4	3/4 inch Plywood	3/4 x 5 1/2 X 24
EW5	4	3/4 inch Plywood	3/4 x 5 1/2 X 83 1/4



Notes:

Exterior wall details are on a separate drawing
Centre wall details are on a separate drawing
Autonomous Zone details are on a separate drawing.
All materials are $\frac{3}{4}$ plywood

ITEM	QTY	Description	SIZE
AZ1	8	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 30$
AZ2	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 24$
AZ3	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 36$
AZ4	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 85 \frac{1}{2}$
AZ5	12	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 16$
AZ6	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 8$
IW1	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 36$
IW2	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 30 \frac{1}{4}$
IW3	8	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 35$
IW4	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 47 \frac{3}{4}$

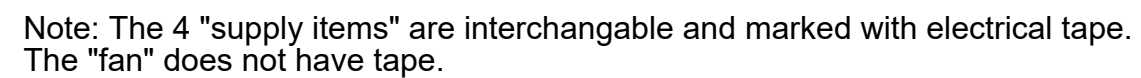


Autonomous Zone

ITEM	QTY	Description	SIZE
AZ1	8	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 30$
AZ2	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 24$
AZ3	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 36$
AZ4	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 85 \frac{1}{2}$
AZ5	12	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 16$
AZ6	4	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 5 \frac{1}{2} \times 8$
ECUS	2	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 6 \frac{1}{4} \times 19 \frac{7}{8}$

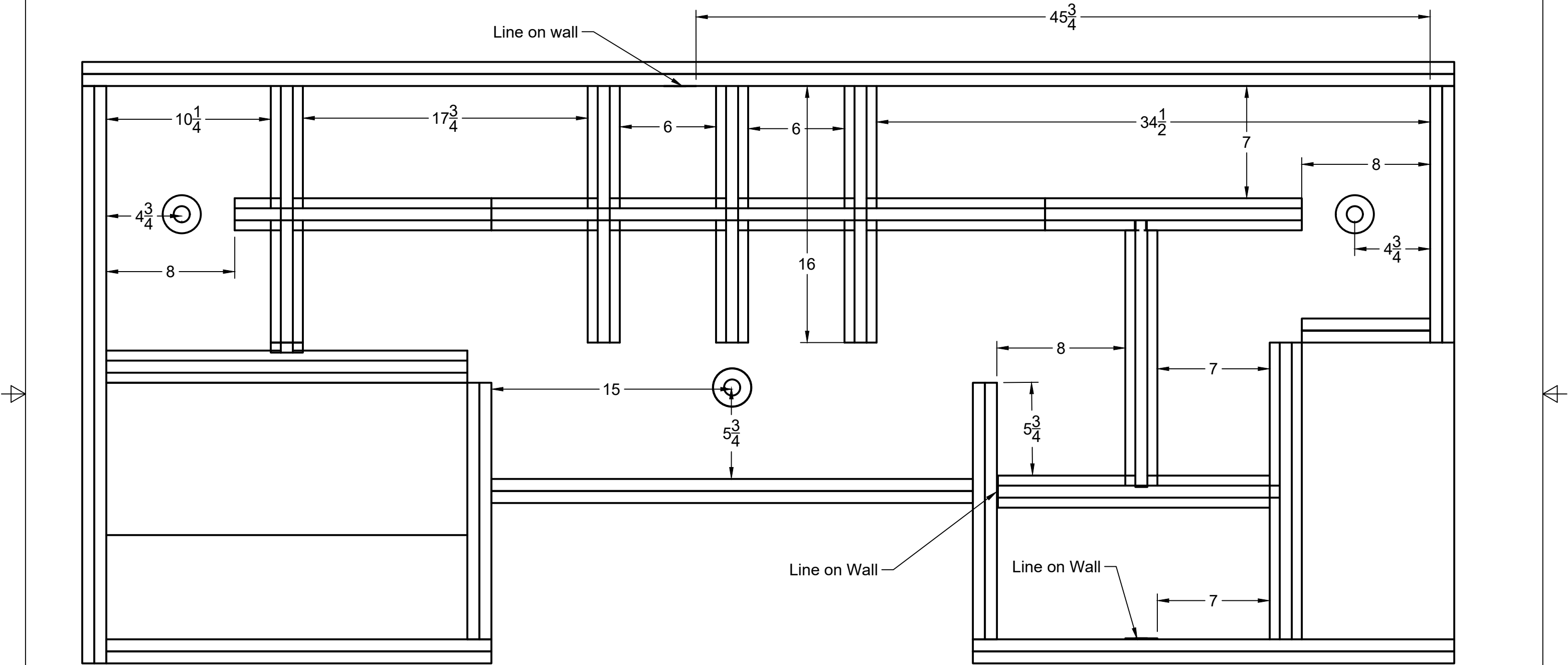
W - Wire

When no dimension is given for the debris location, the Debris is centred or inline with an adjacent or perpendicular wall.

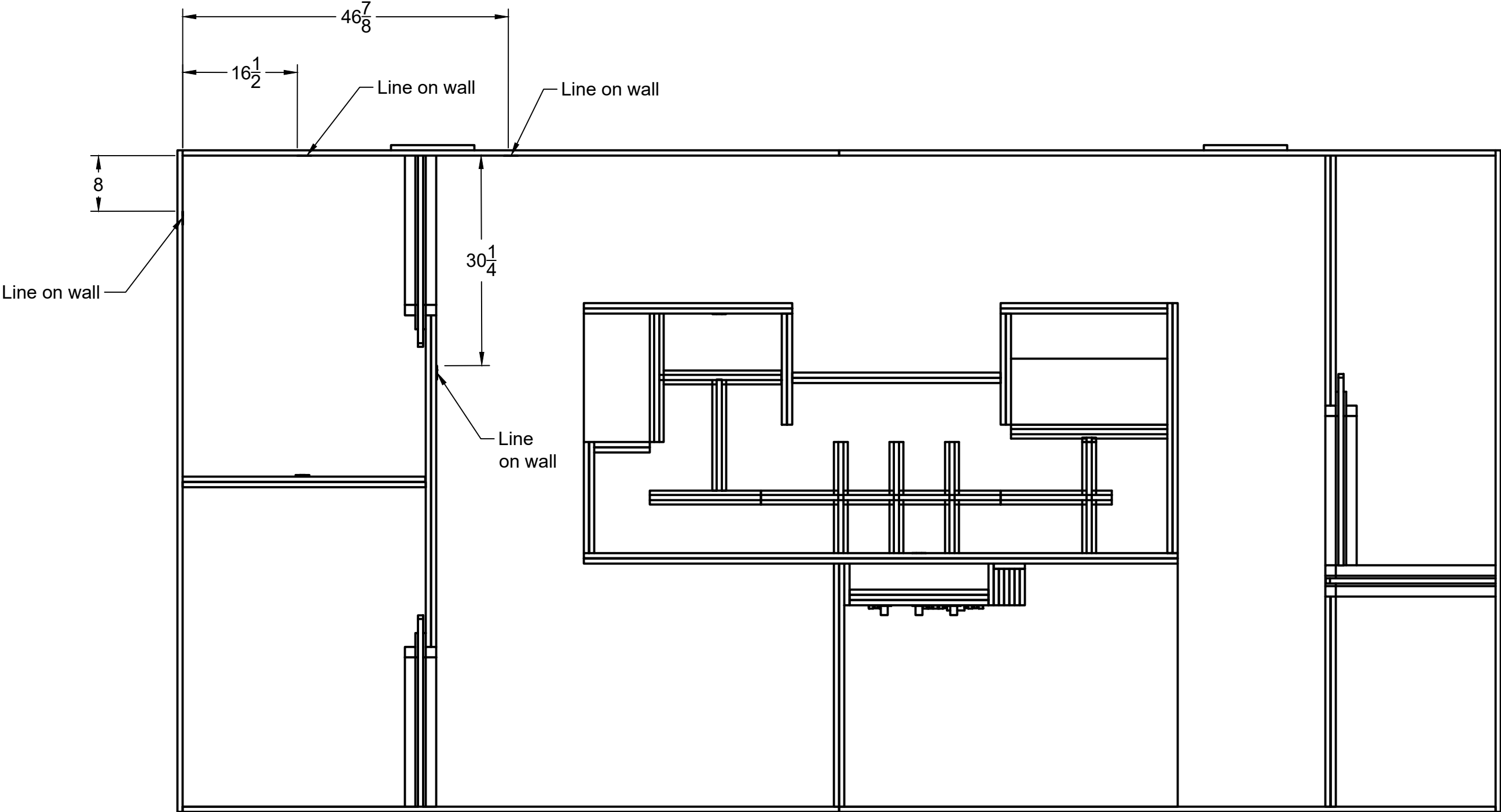


Mobile Robotics National Drawings
Toronto, Ontario May 28 and May 29, 2026

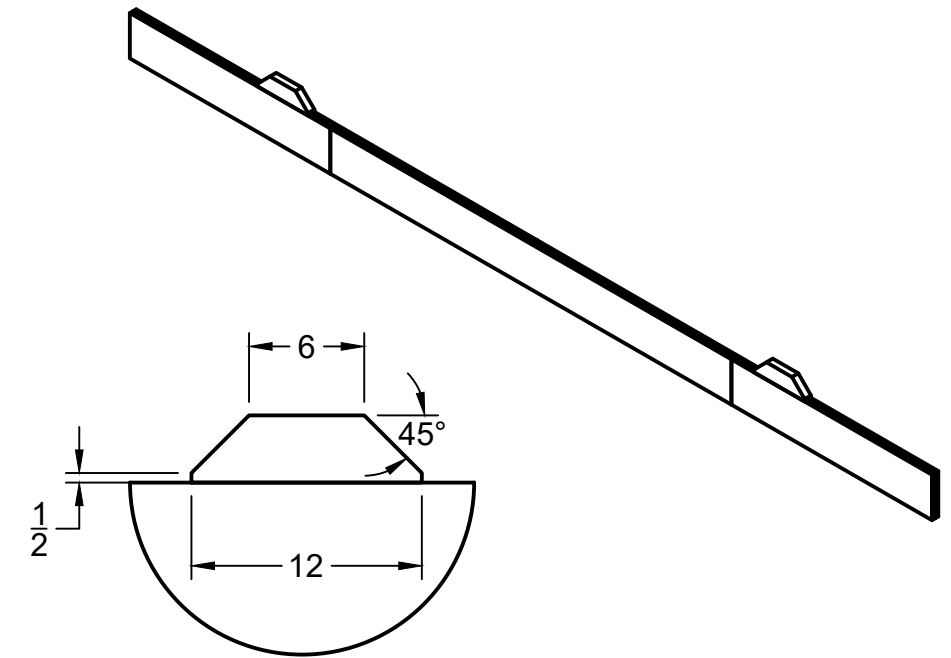
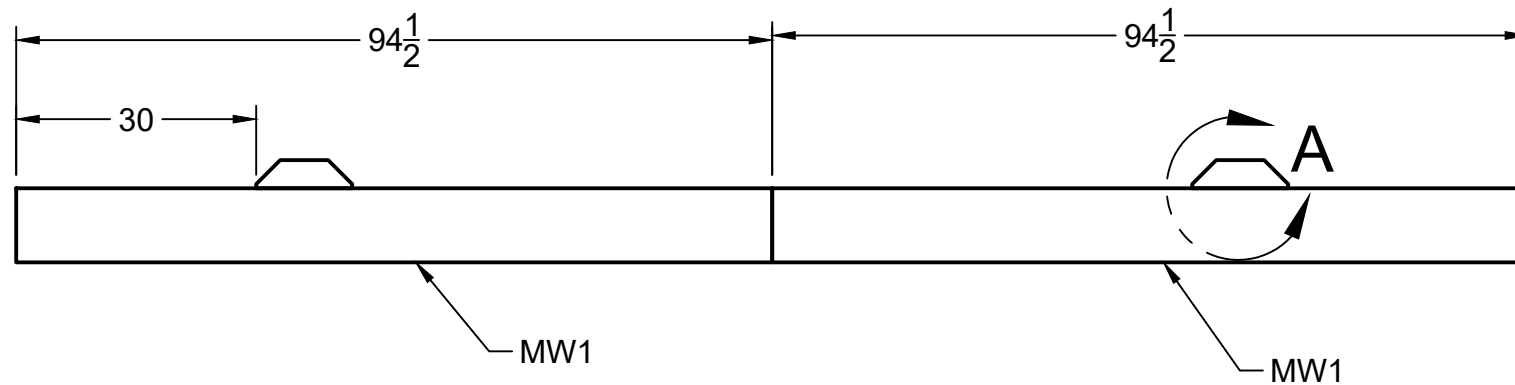
Autonomous Line Layout



Autonomous Line Layout (Continued)



PROJECT: Skills Nationals 2026	DRAWING NUMBER: 5/5	SCALE: 1:50		Mobile Robotics National Drawings Toronto, Ontario May 28 and May 29, 2026
DRAWING TITLE: 2025-2026 Court	DRAWN BY: Steve Claassen	DATE: 2025-07-04		

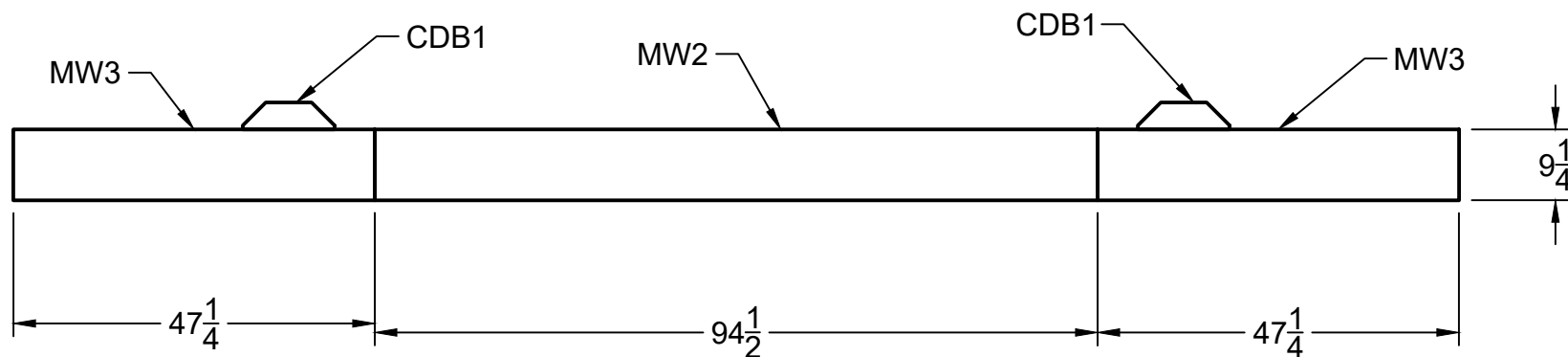


DETAIL A
SCALE 1:10

Note: This middle wall is constructed using 5 pieces of $\frac{3}{4}$ inch plywood that have been laminated together, using a pattern that overlaps the pieces to make it 1 1/2 in thick.

CDB1 is a 2x4 block that will help prevent movement of the Failed Beam attached to the centre Wall into the opponents court.

Details of the piece sizes are located on the Plywood Layout Cut sheets



ITEM	QTY	Description	SIZE
MW1	2	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 9 \frac{1}{4} \times 94 \frac{1}{2}$
MW2	1	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 9 \frac{1}{4} \times 94 \frac{1}{2}$
MW3	2	$\frac{3}{4}$ Plywood	$\frac{3}{4} \times 9 \frac{1}{4} \times 47 \frac{1}{4}$
CDB1	2	2 x 4 Lumber	$1 \frac{1}{2} \times 3 \frac{1}{2} \times 12$

PROJECT:
Skills Nationals 2026

DRAWING TITLE:
Center Wall 9 1/4 high

DRAWING NUMBER:
1/1

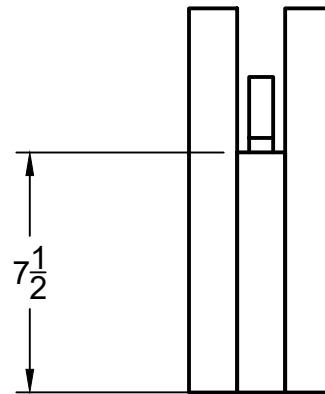
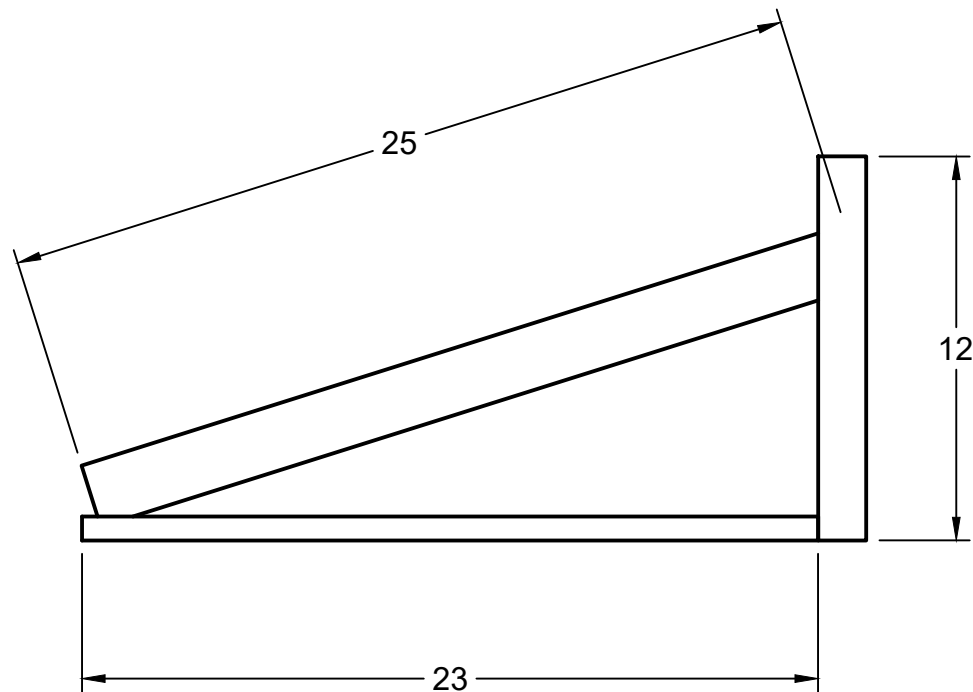
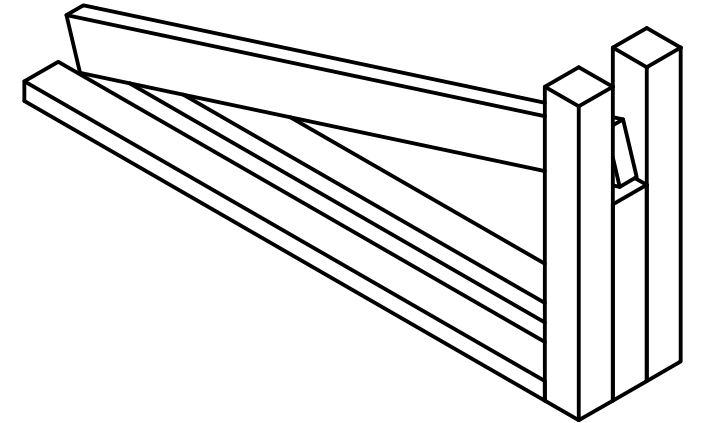
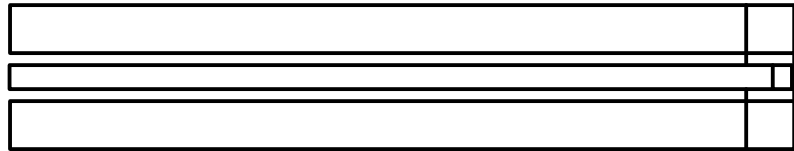
DRAWN BY:
Steve Claassen

SCALE:
1:24

DATE:
2025-06-29

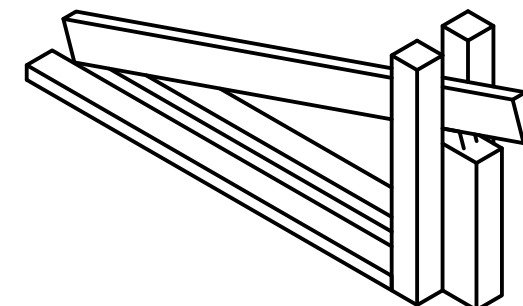
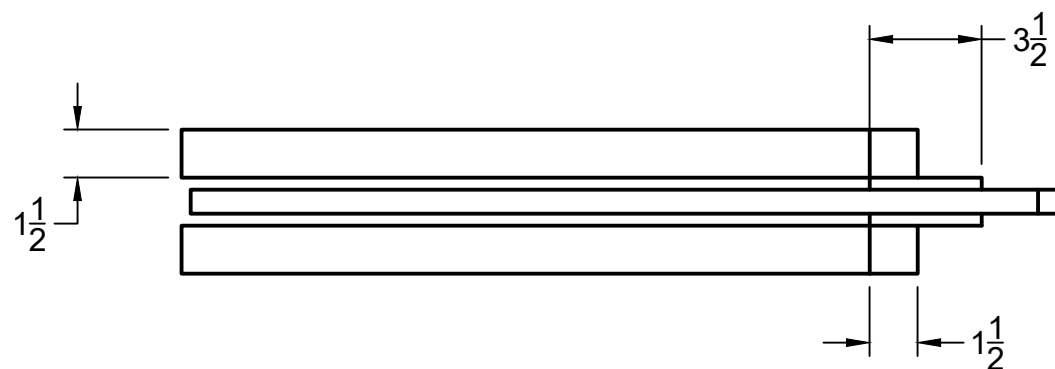


Mobile Robotics National Drawings
Toronto, Ontario May 28 and May 29, 2026

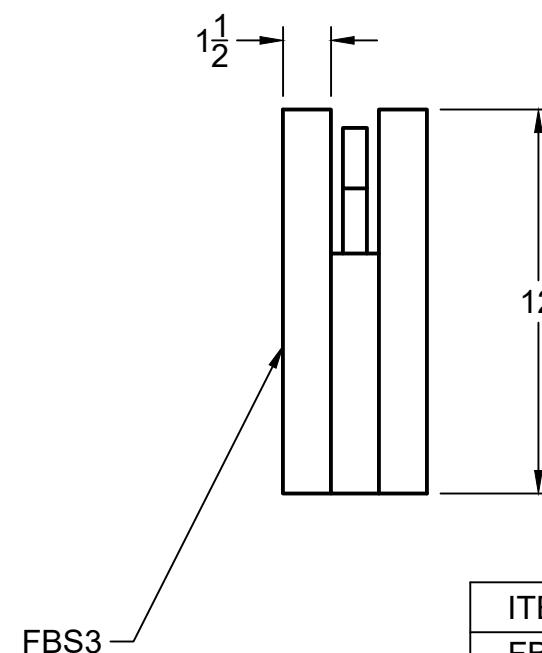
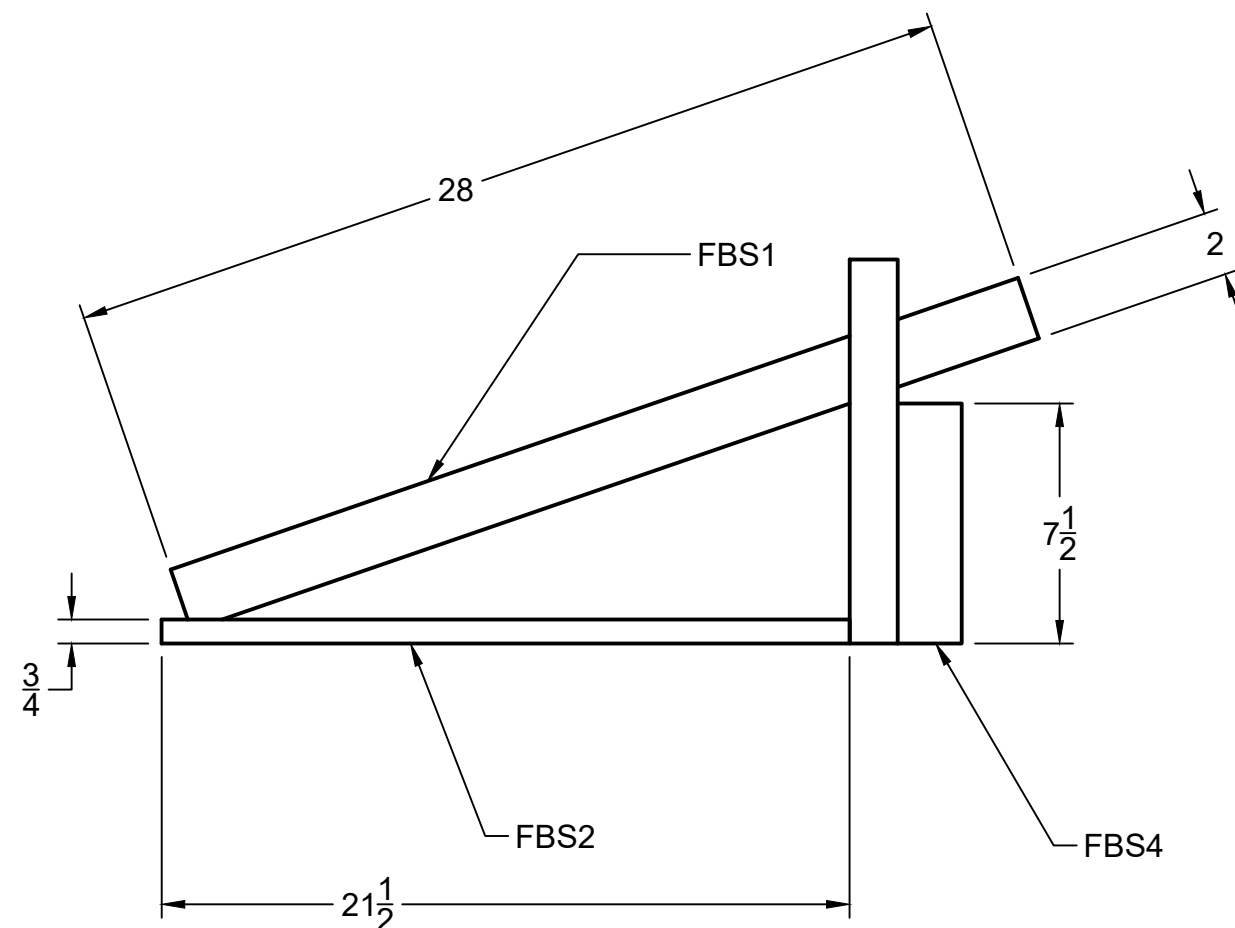


NOTE: There are TWO different types of fallen beams and 2 of this version (1 for each side of the field) are required.
The difference is how they get attached to the interior walls

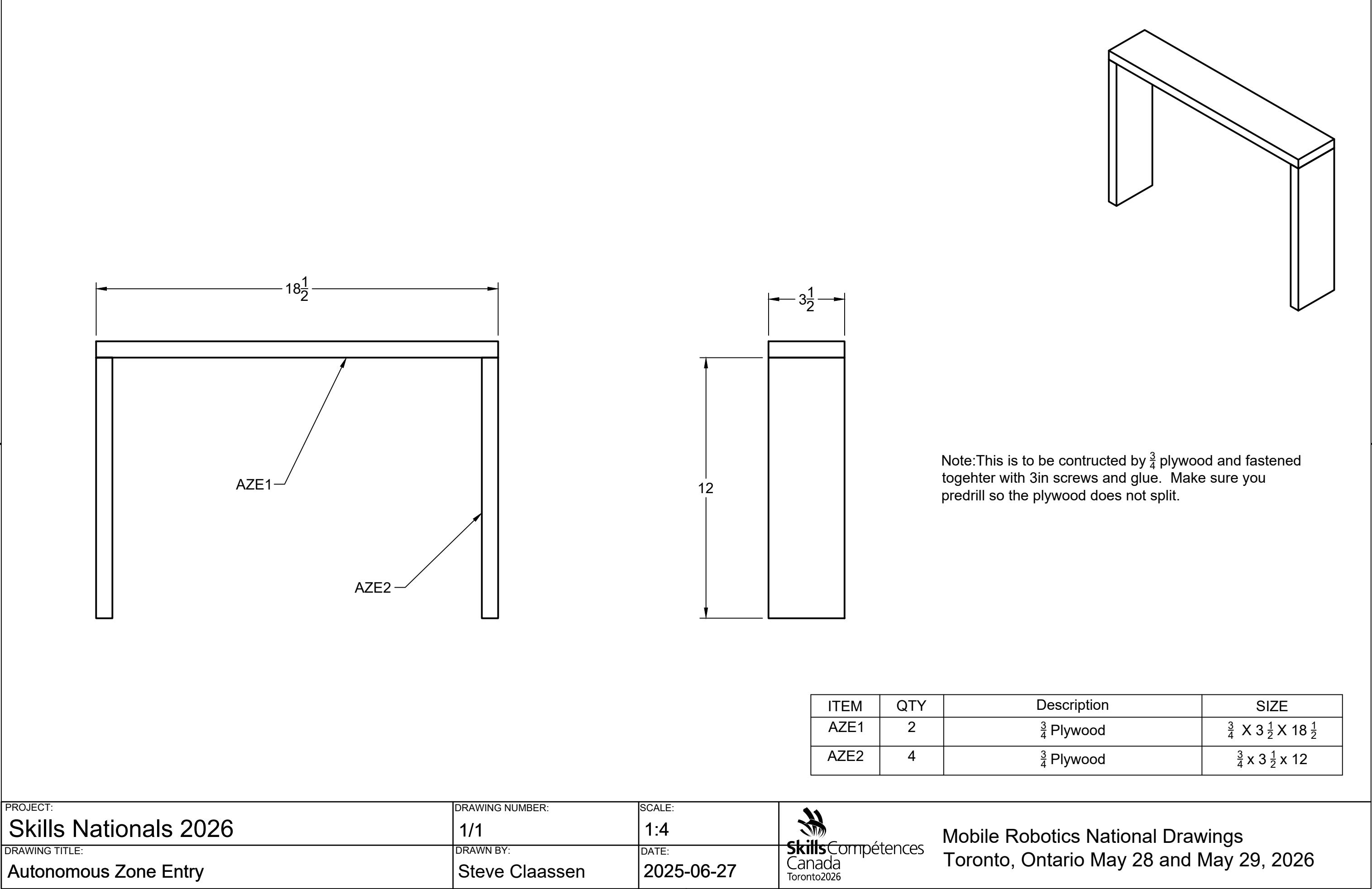
ITEM	QTY	Description	SIZE
FBP1	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 2 X $26\frac{1}{2}$
FBP2	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $1\frac{1}{2}$ x $24\frac{1}{2}$
FBP3	4	Standard 2x2 Lumber	$1\frac{1}{2}$ X $1\frac{1}{2}$ X 12
FBP4	2	Standard 2x 2 Lumber	$1\frac{1}{2}$ X $1\frac{1}{2}$ X $7\frac{1}{2}$

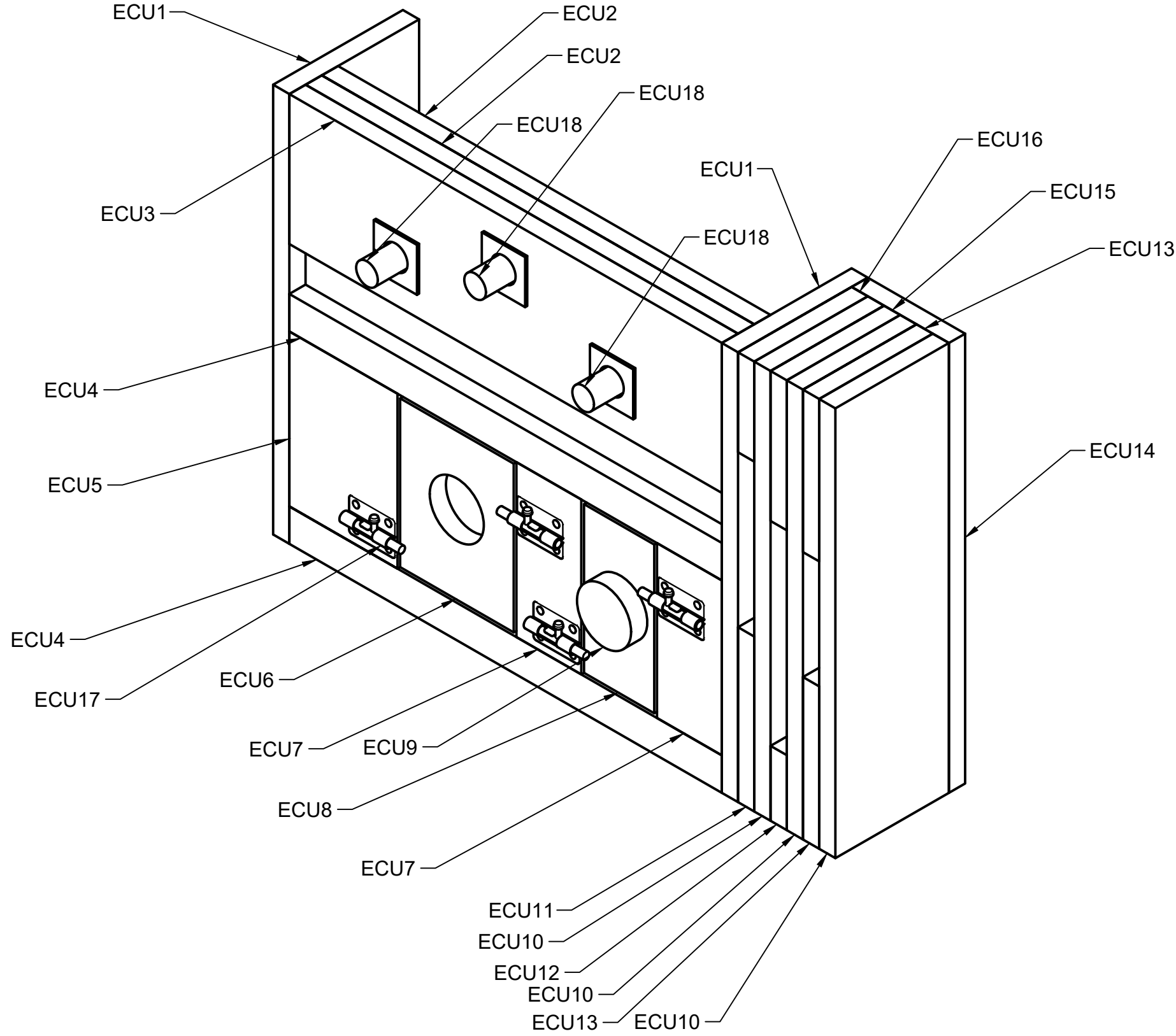


NOTE: There are TWO different types of fallen beams
This drawing requires 6 of this version (3 for each side of
the field).
The difference is how they get attached to the interior
walls



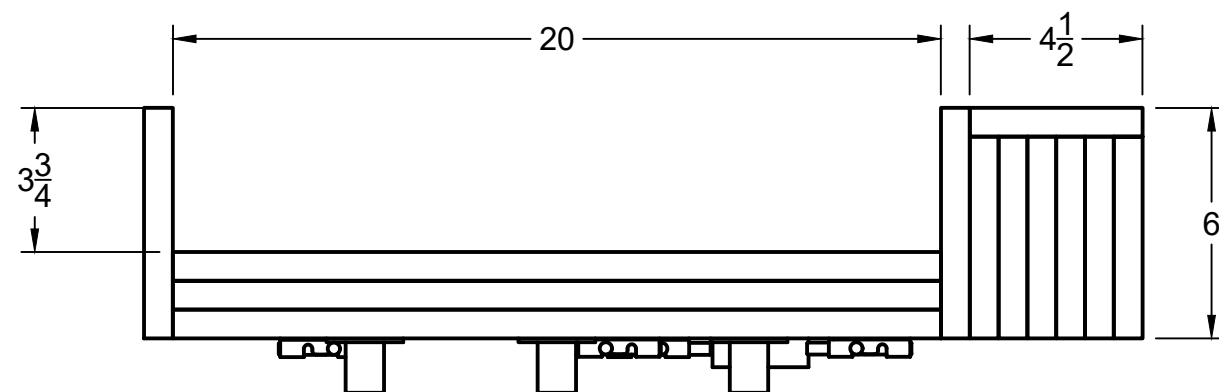
ITEM	QTY	Description	SIZE
FBS1	6	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 2 X 28
FBS2	12	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $1\frac{1}{2}$ x $21\frac{1}{2}$
FBS3	12	Standard 2x2 Lumber	$1\frac{1}{2}$ X $1\frac{1}{2}$ X 12
FBS4	6	Standard 2x4 Lumber	$1\frac{1}{2}$ X $3\frac{1}{2}$ X $7\frac{1}{2}$



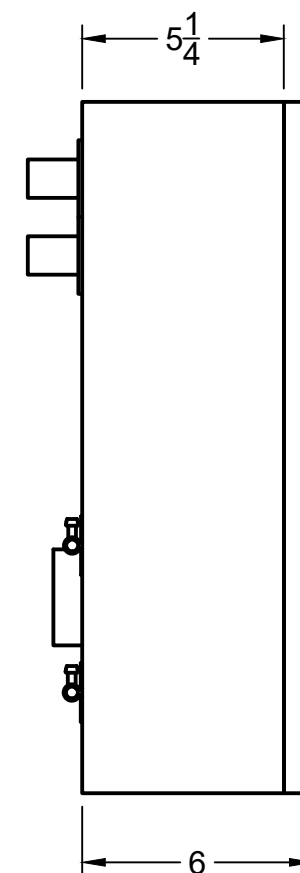
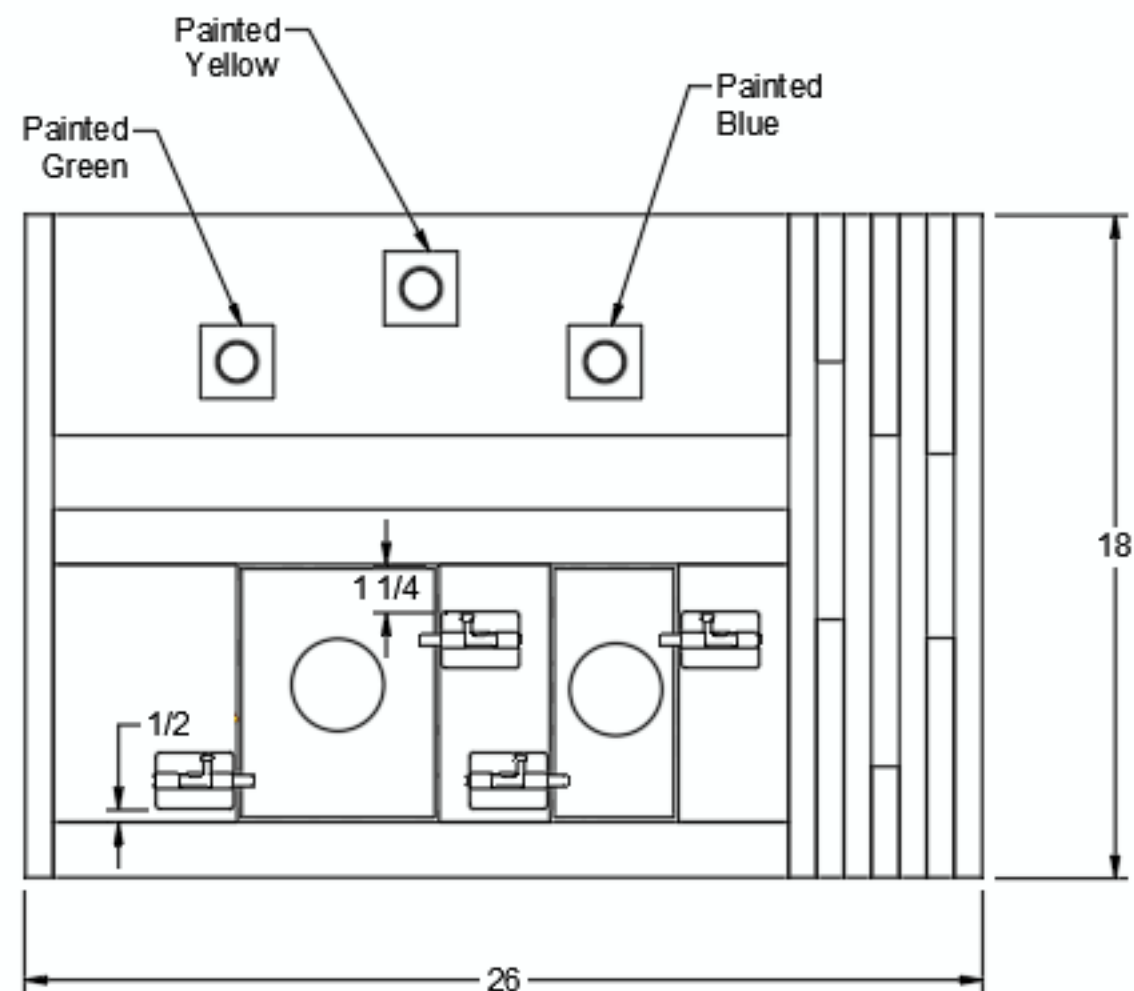
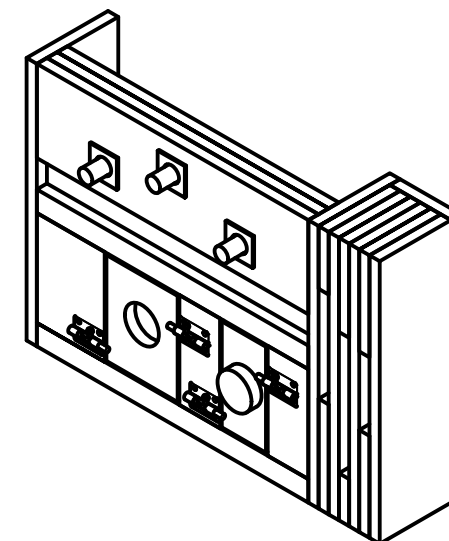


Note: All material is $\frac{3}{4}$ plywood
1" dowel for fuses @ 3in long
Each square around the fuse hole is to be coloured appropriately as labelled

ITEM	QTY	Description	SIZE
ECU1	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 6 x 18
ECU2	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 18x 20
ECU3	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 6 x 20
ECU4	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $1\frac{1}{2}$ x 20
ECU5	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 5 x 7
ECU6	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $5\frac{1}{4}$ x $6\frac{3}{4}$
ECU7	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 3 x 7
ECU8	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $3\frac{1}{4}$ x $6\frac{3}{4}$
ECU9	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $2\frac{1}{4}$
ECU10	6	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $5\frac{1}{4}$ x 18
ECU11	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $5\frac{1}{4}$ x 7
ECU12	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 3 x $5\frac{1}{4}$
ECU13	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $5\frac{1}{4}$ x $6\frac{1}{2}$
ECU14	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $4\frac{1}{2}$ x 18
ECU15	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x $5\frac{1}{4}$ x $6\frac{1}{2}$
ECU16	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ x 4 x $5\frac{1}{4}$
ECU17	8	3" Barrel Bolt	https://bit.ly/23BarrelBolts
ECU18	12	1" Dowel	1" x 3"



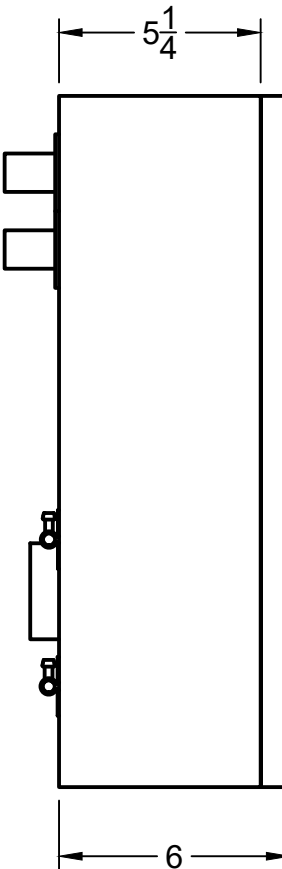
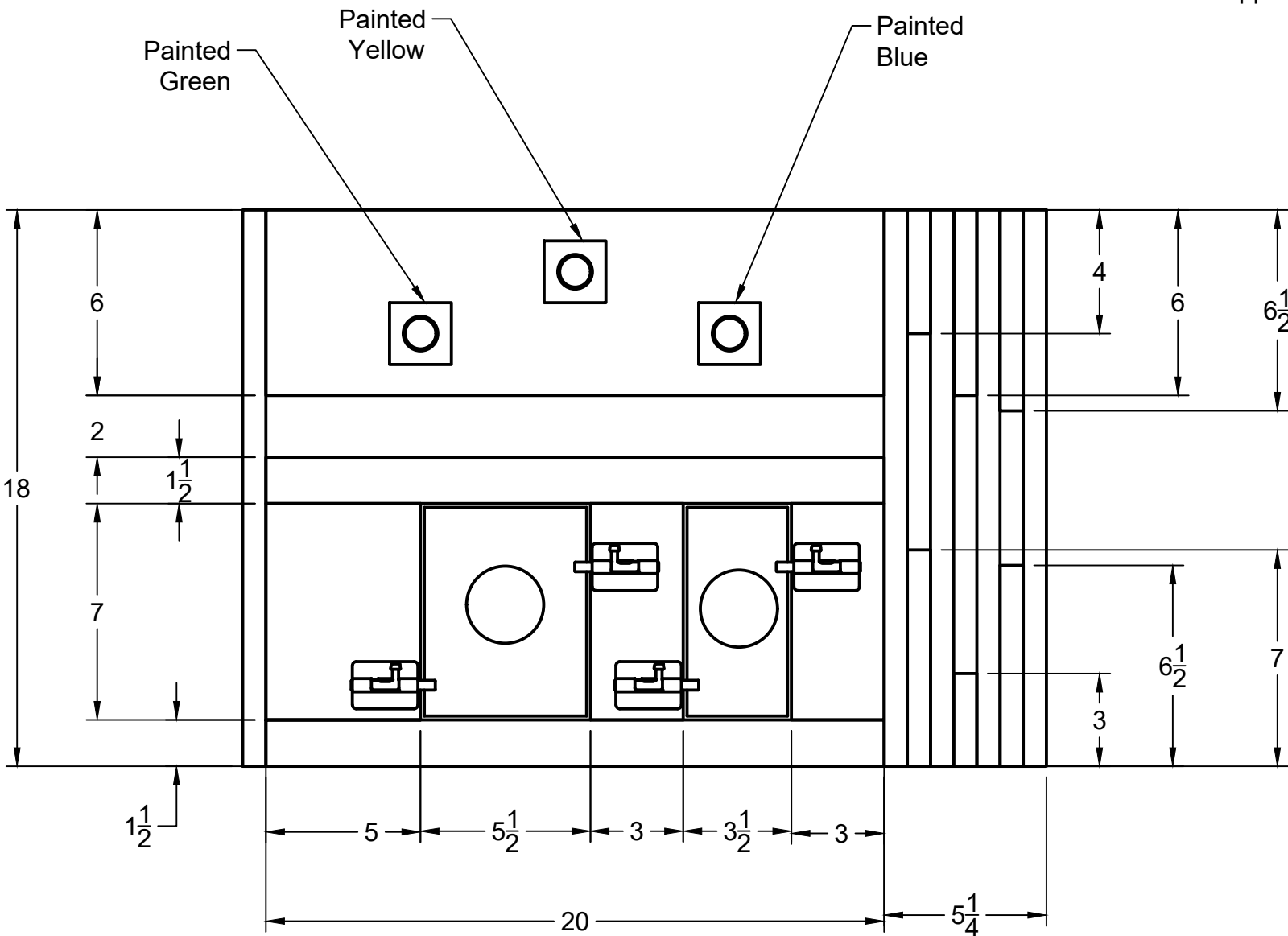
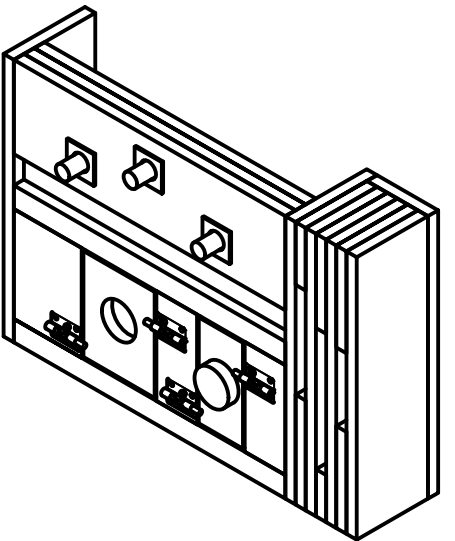
Note: All material is $\frac{3}{4}$ plywood
 1" dowel for fuses @ 3in long
 Each square around the fuse hole is to be coloured appropriately as labelled



PROJECT: Skills Nationals 2026	DRAWING NUMBER: 2/4	SCALE: 1:6		Mobile Robotics National Drawings Toronto, Ontario May 28 and May 29, 2026
DRAWING TITLE: Electronic Control Unit (ECU)	DRAWN BY: Steve Claassen	DATE: 2025-07-05		

Note: The diagram is a bit misleading...
The barrel bolts will start in the down/horizontal position at the start of the match, such that they do not need to be rotated to be slid over.

Note: All material is $\frac{3}{4}$ plywood
1" dowel for fuses @ 3in long
Each square around the fuse hole is to be coloured
appropriately as labelled



PROJECT:

Skills Nationals 2026

DRAWING NUMBER:

3/4

	DRAWN BY:
--	-----------

Steve Claassen

SCALE:

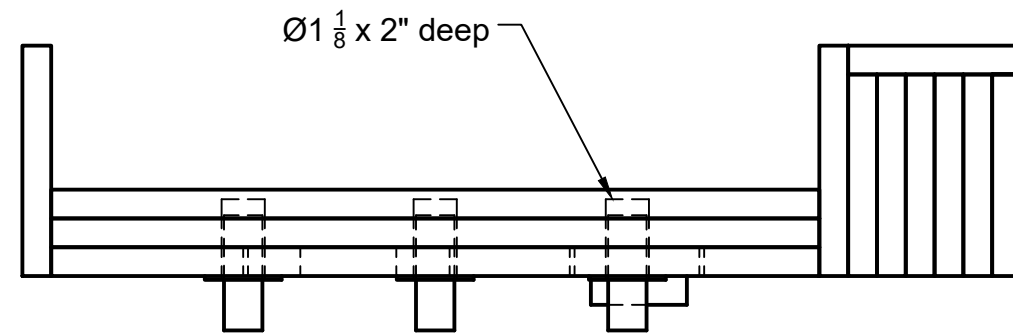
1:6

DATE:	
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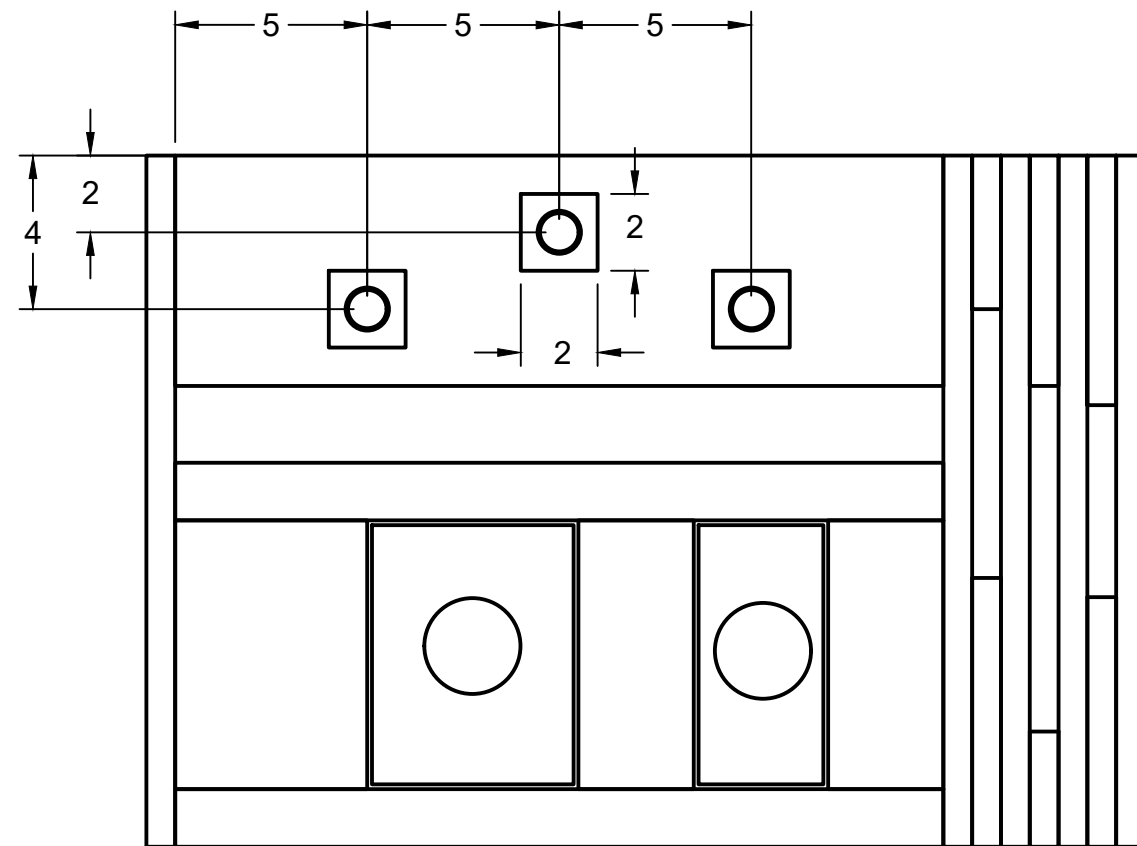
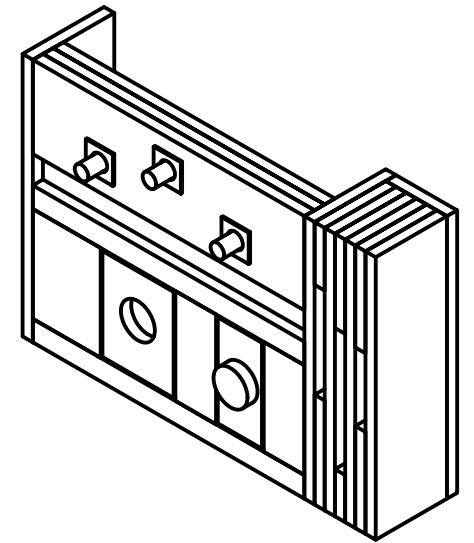
2025-07-05

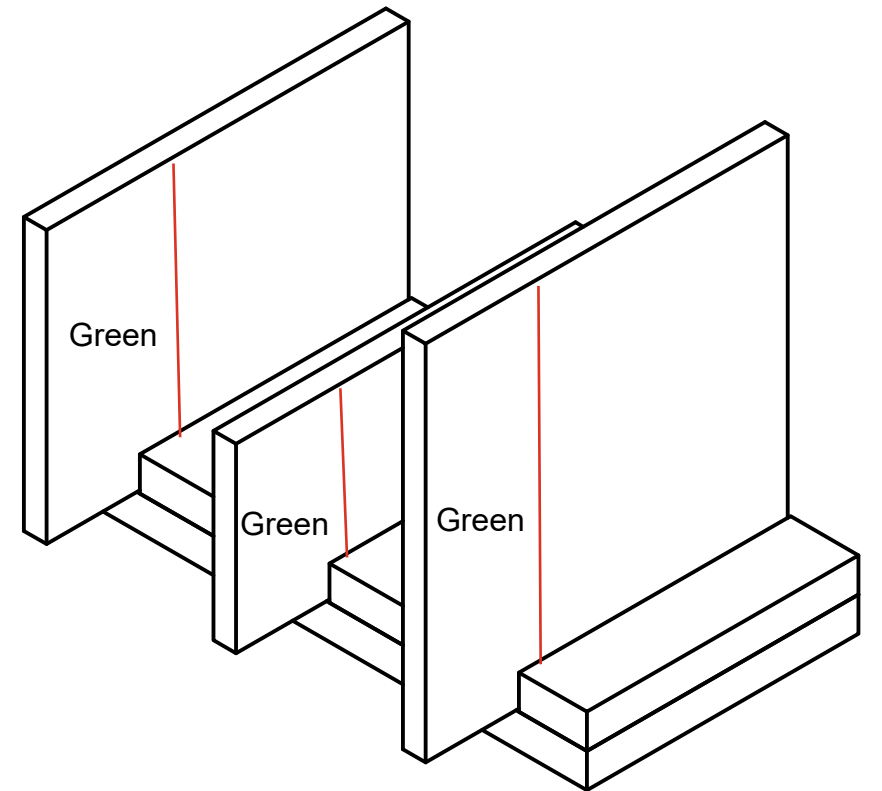
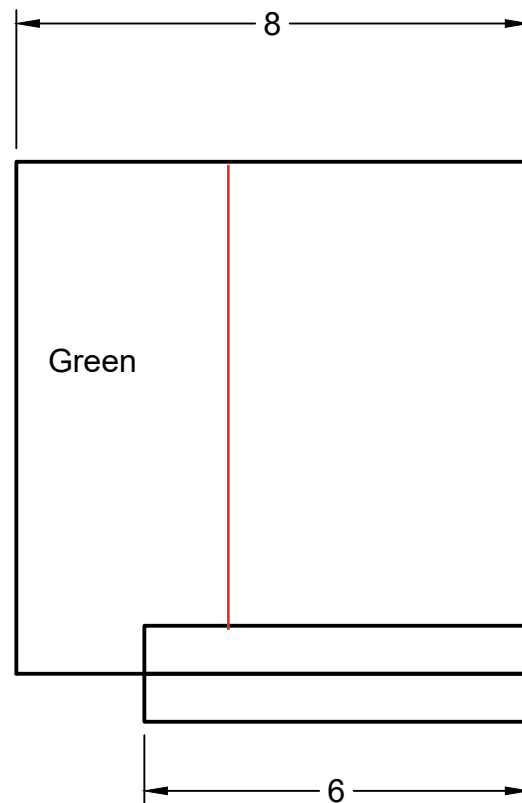
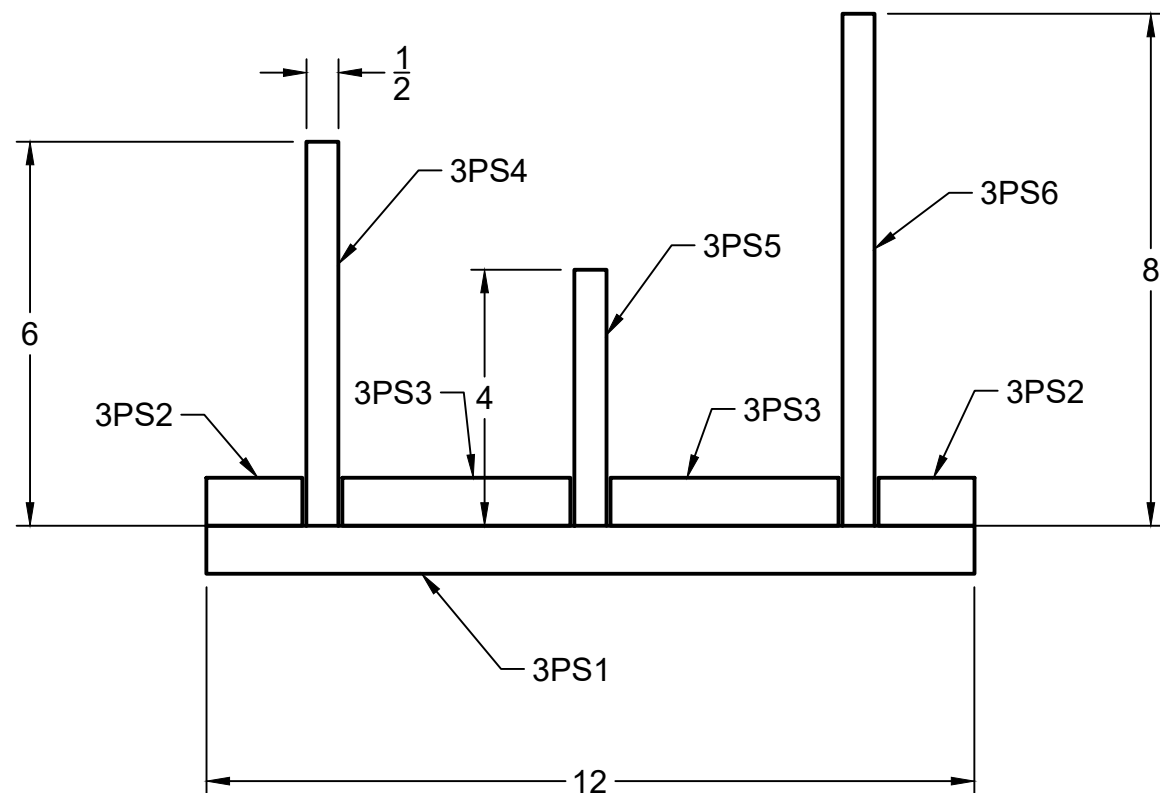
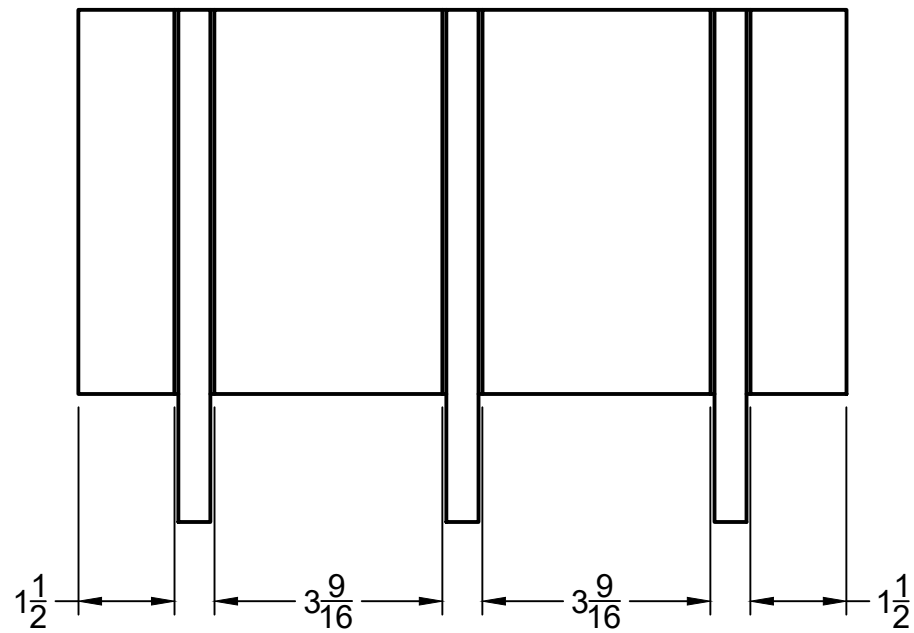


Mobile Robotics National Drawings
Toronto, Ontario May 28 and May 29, 2026



A 29mm forstner bit works well for these holes.





Notes: Ensure the spacing for the ECU pieces is 5/8in to allow for a "loose" fit of the 1/2in plywood.
Malfunctioning circuit boards are designated with a large X on their face.

Properly functioning circuit boards will have a 3 1/2 - inch-wide green strip along their front-facing edge.

ITEM	QTY	Description	SIZE
3PS1	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 6 X 12
3PS2	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 1 $\frac{1}{2}$ X 6
3PS3	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 3 $\frac{9}{16}$ X 6
3PS4	4	$\frac{1}{2}$ Plywood	$\frac{1}{2}$ X 6 X 6
3PS5	4	$\frac{1}{2}$ Plywood	$\frac{1}{2}$ X 4 X 6
3PS6	4	$\frac{1}{2}$ Plywood	$\frac{1}{2}$ X 8 X 6

PROJECT:

Skills Nationals 2026

DRAWING TITLE:

ECU Piece Storage x 3

DRAWING NUMBER:

1/1

DRAWN BY:

Steve Claassen

SCALE:

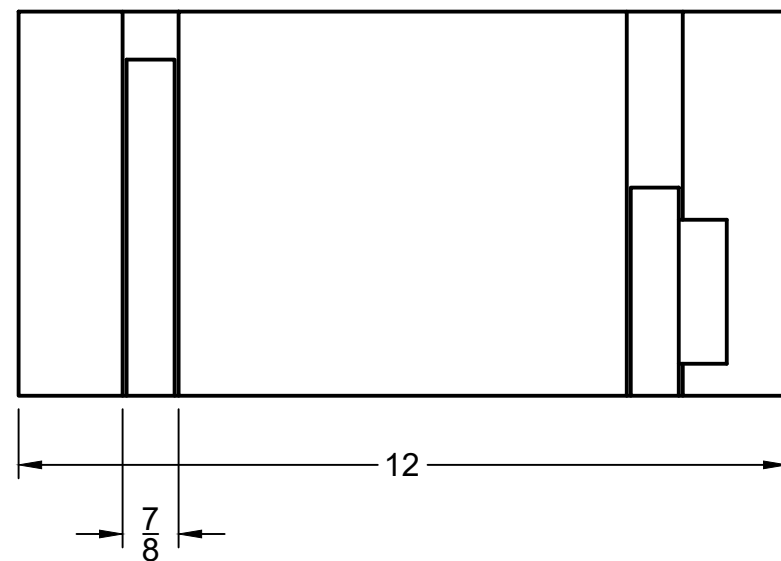
1:4

DATE:

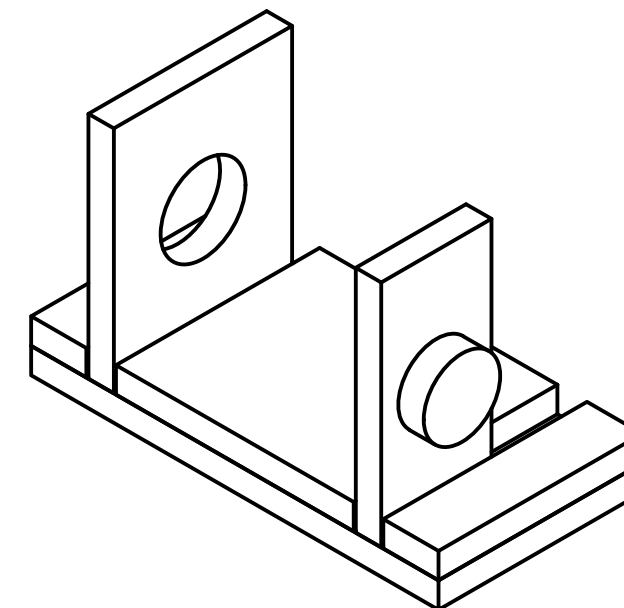
2025-07-20



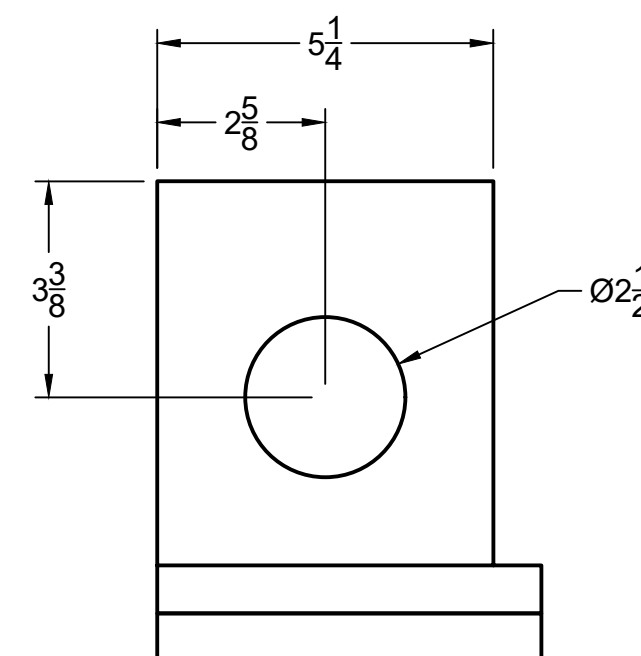
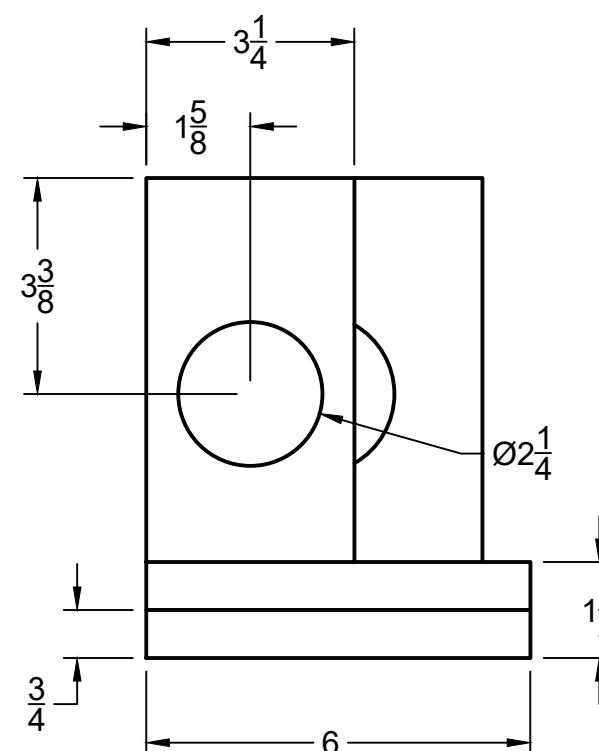
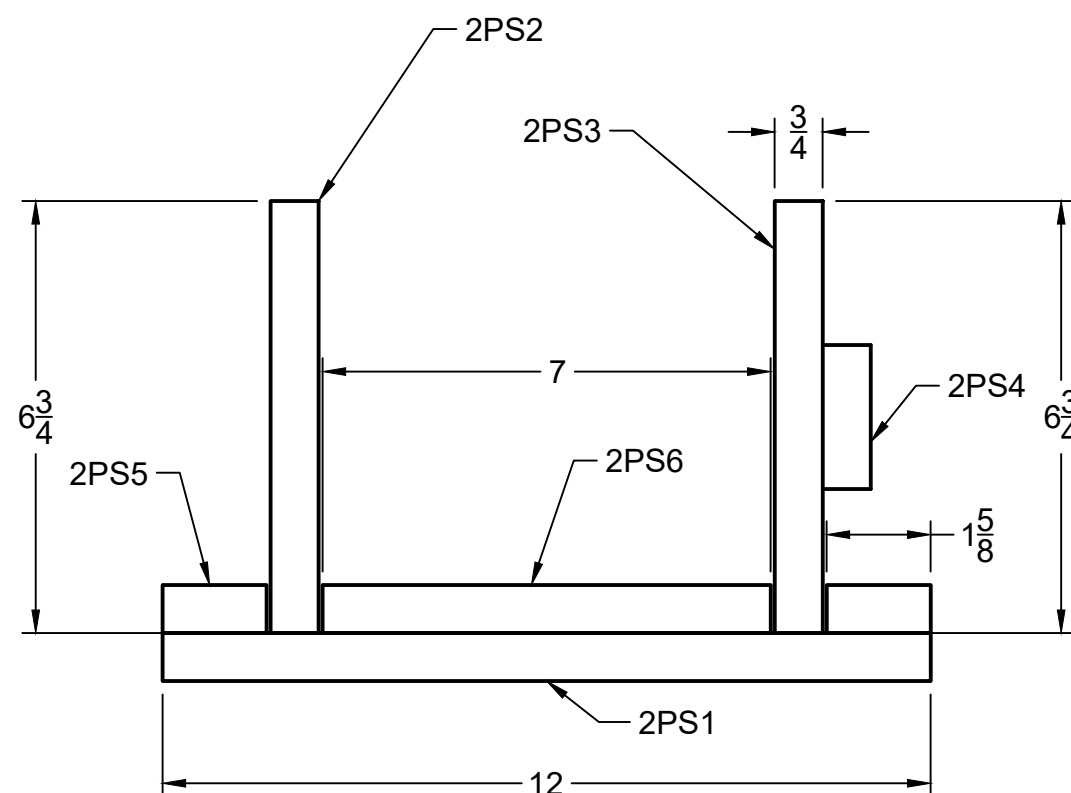
Mobile Robotics National Drawings
Toronto, Ontario May 28 and May 29, 2026

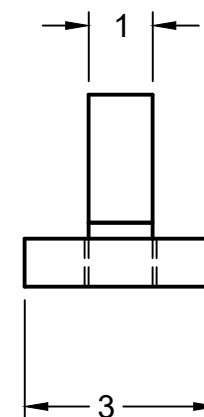
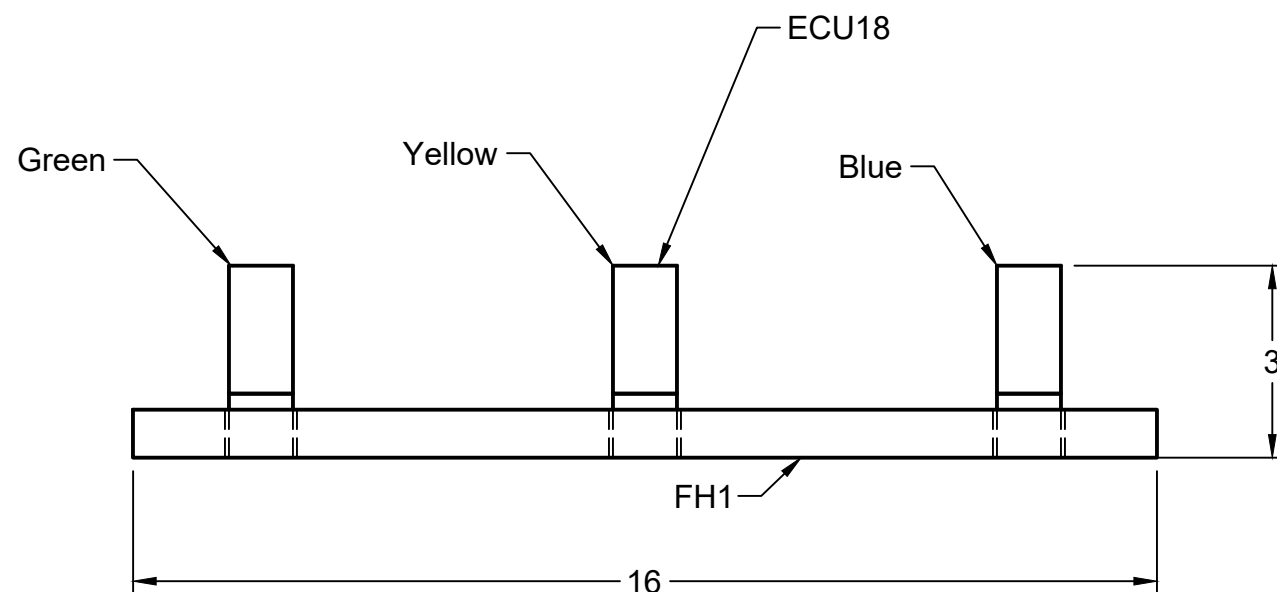
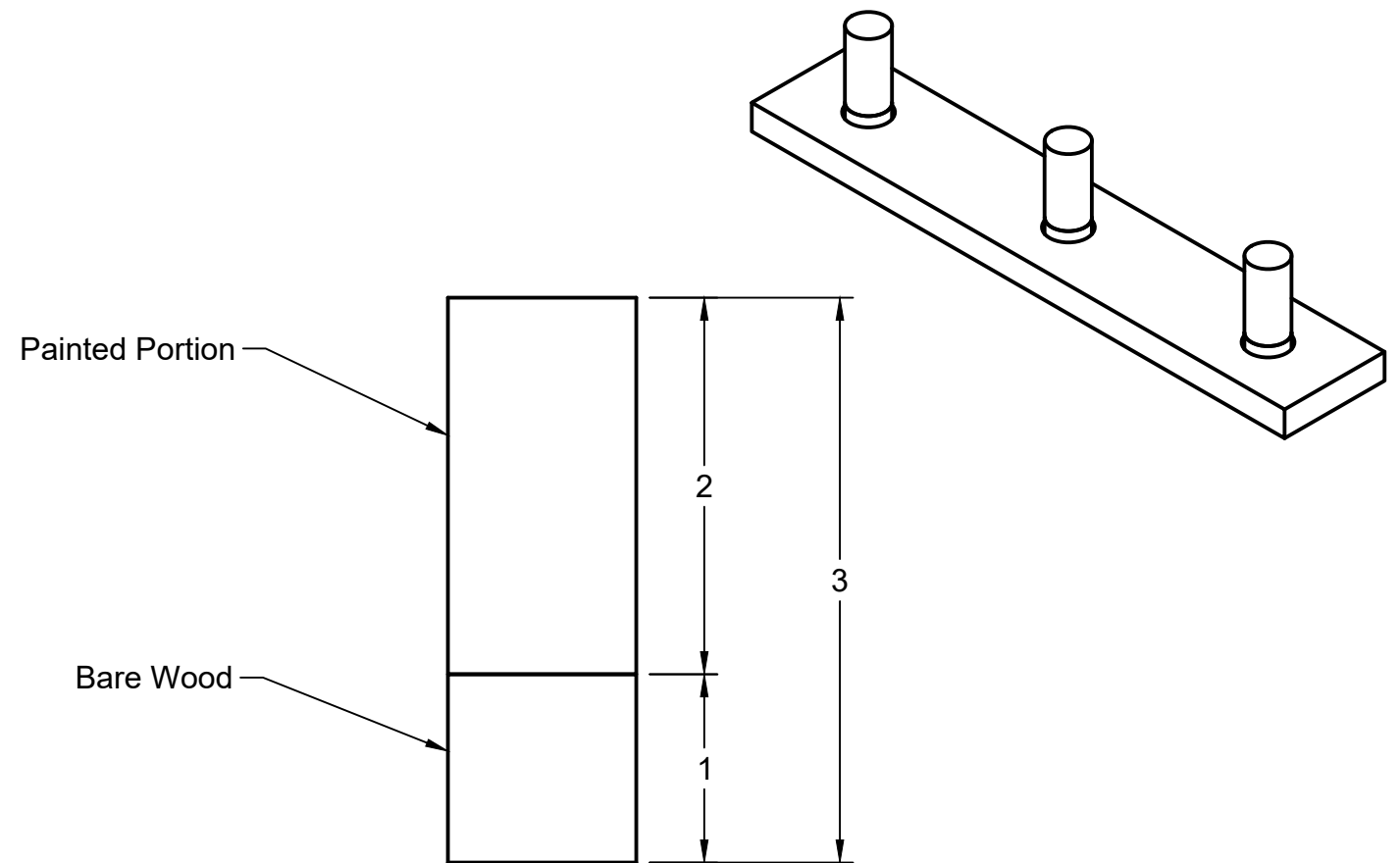
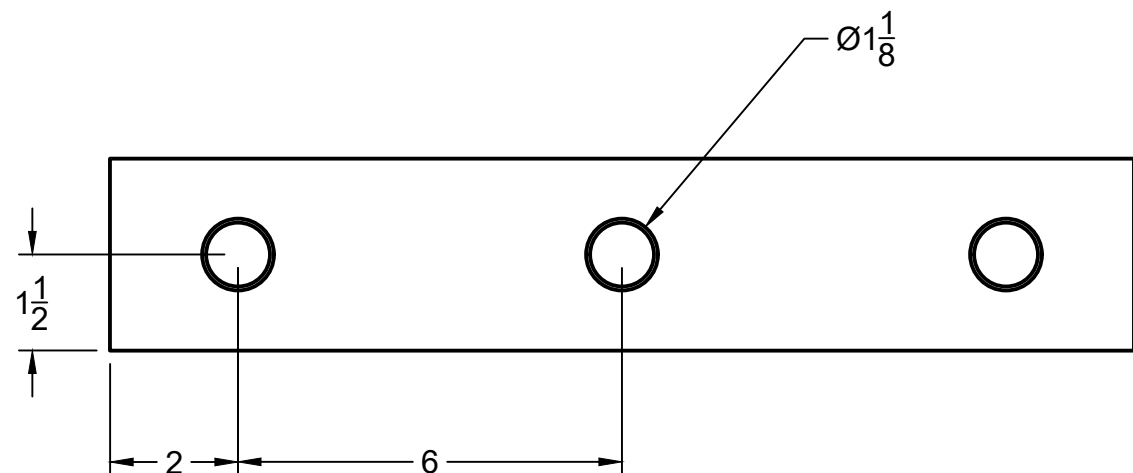


ITEM	QTY	Description	SIZE
2PS1	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 6 X 12
2PS2	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X $5\frac{1}{4}$ X $6\frac{3}{4}$
2PS3	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X $3\frac{1}{4}$ X $6\frac{3}{4}$
2PS4	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X $2\frac{1}{4}$
2PS5	4	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X $1\frac{5}{8}$ X 6
2PS6	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 6 X 7



Note: Ensure the spacing for the ECU pieces is 7/8in to allow for a "loose" fit of the 3/4in plywood.

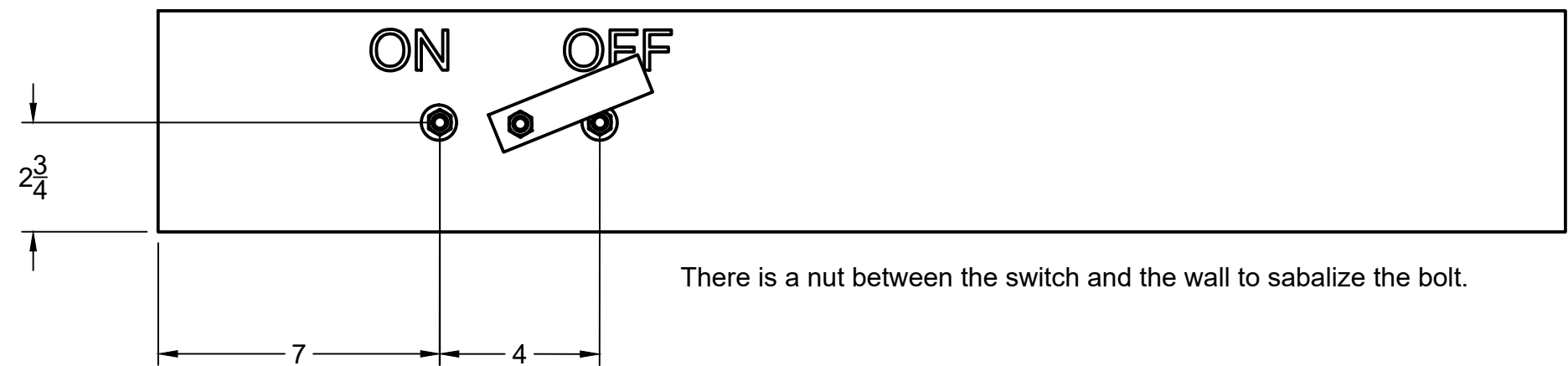




Note: Fuses (ECU18) are to be 1in diameter Dowel.
 Fuse holes will be drilled all the way through and be 1 1/8in in diameter to allow for easy removal.
 Fuses are painted for 2 inches of their length, and left unpainted for the last 1 inch.

ITEM	QTY	Description	SIZE
FH1	2	$\frac{3}{4}$ Plywood	$\frac{3}{4}$ X 3 X 16
ECU18	12	1" Wooden Dowel (Painted)	1 X 3

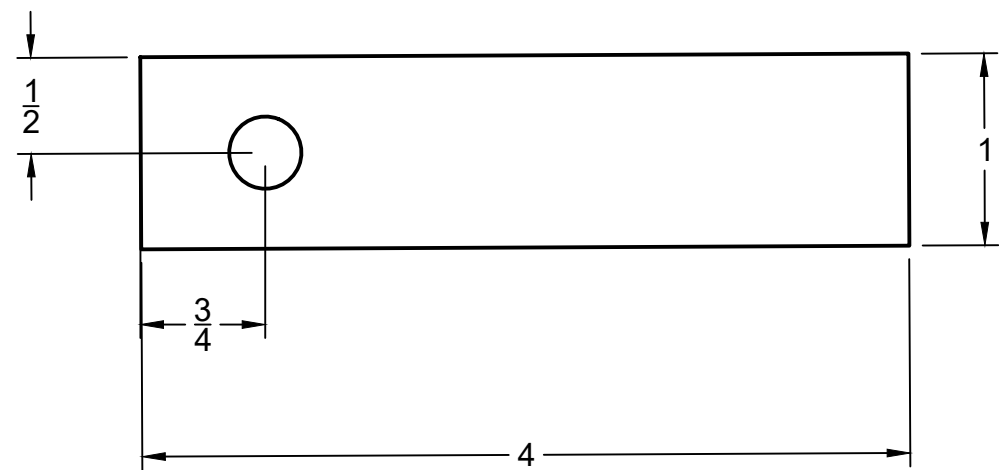
Switch Layout on Lobby Wall



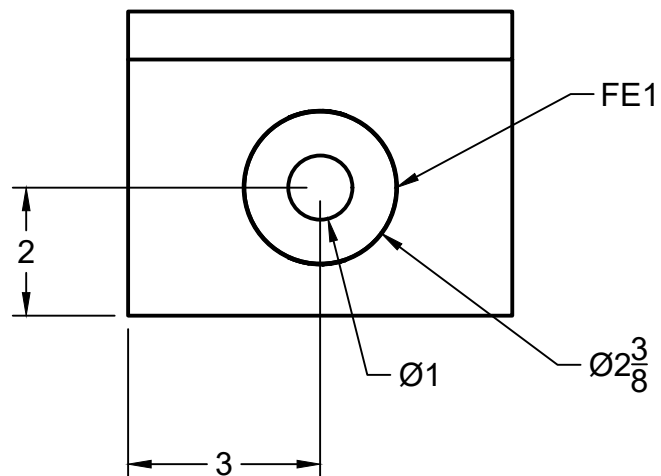
There is a nut between the switch and the wall to sabalize the bolt.

Note:The switch must have no resistance and be easily manipulated between the ON/OFF position

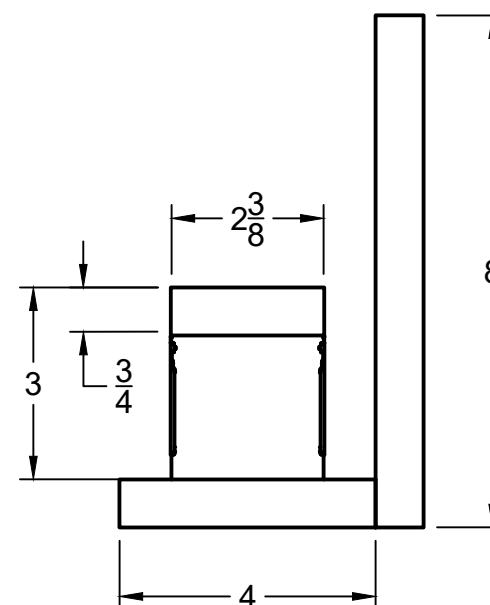
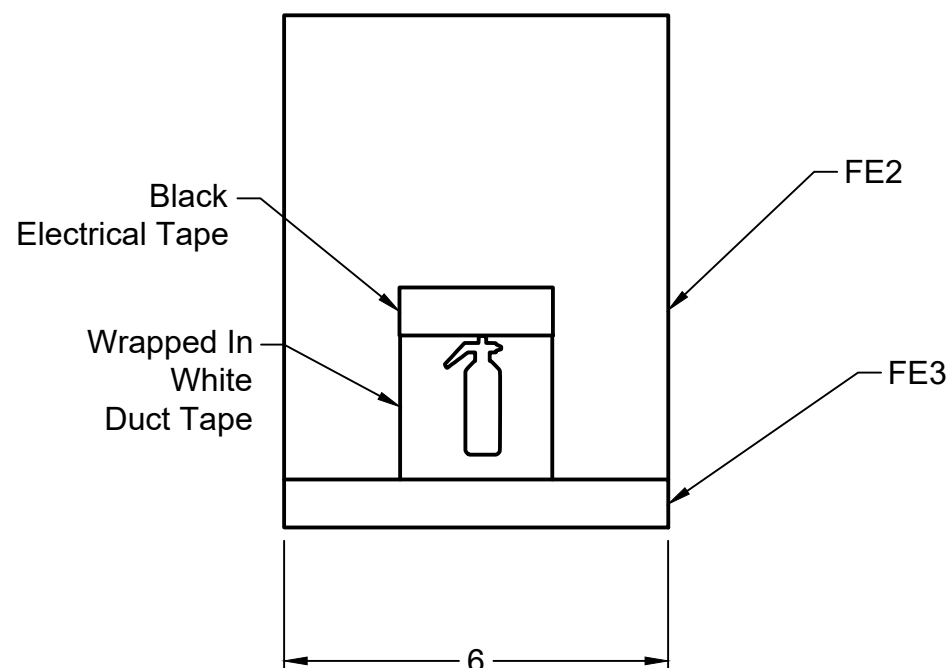
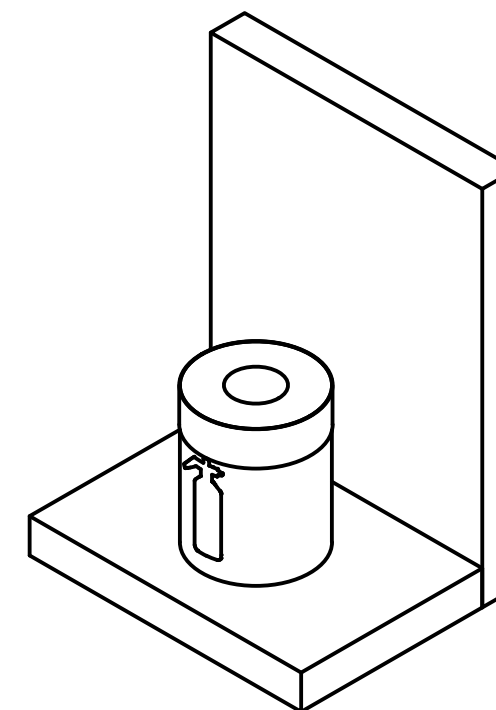
$\frac{3}{4}$ " Plywood Switch (Scale 1:1)



ITEM	QTY	Description	SIZE
SW1	2	$\frac{3}{4}$ " Plywood	$\frac{3}{4}$ x 1 x 4
CB1	6	Carriage Bolt	$\frac{3}{8}$ " x 3"
N1	6	$\frac{3}{8}$ " Nut	$\frac{3}{8}$ "
LN2	2	$\frac{3}{8}$ " Locknut	$\frac{3}{8}$ "
W1	6	$\frac{3}{8}$ " Washer	$\frac{3}{8}$ "



ITEM	QTY	Description	SIZE
FE1	2	2.4" Pool Noodle	2 $\frac{3}{8}$ X 3
FE2	2	$\frac{3}{4}$ plywood	$\frac{3}{4}$ X 6 X 8
FE3	2	$\frac{3}{4}$ plywood	$\frac{3}{4}$ X 3 X 6



Note: Fire Extinguisher to be wrapped with a $\frac{3}{4}$ " black electrical tape ring around the top. Be careful not to compress the pool noodle when applying the tape.

PROJECT:
Skills Nationals 2026

DRAWING TITLE:
Fire Extinguisher

DRAWING NUMBER:

1/1

DRAWN BY:

Steve Claassen

SCALE:

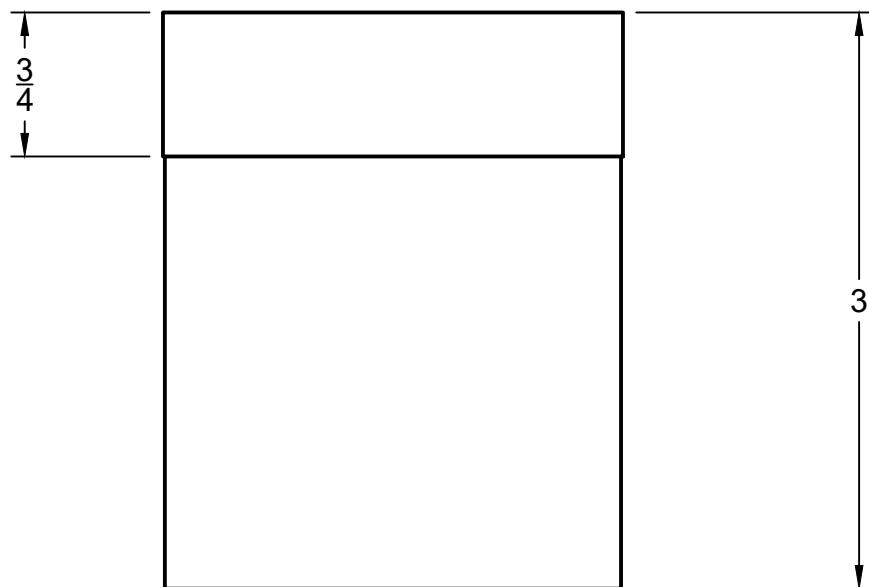
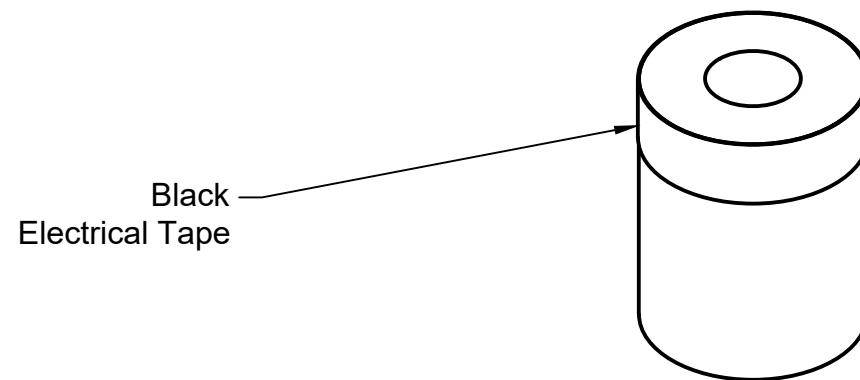
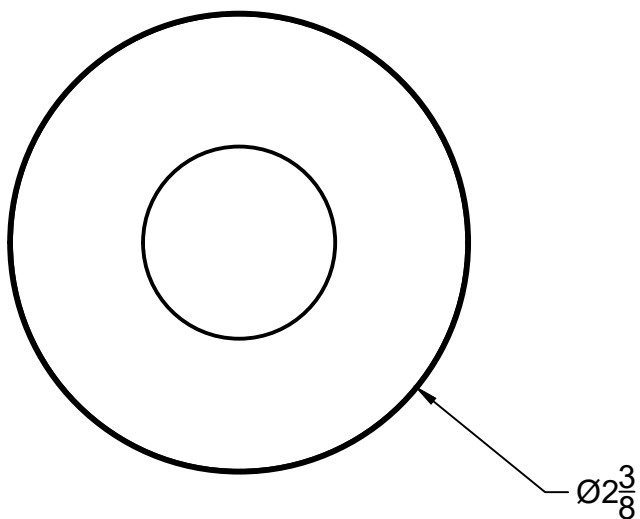
1:4

DATE:

2025-06-27



Mobile Robotics National Drawings
Toronto, Ontario May 28 and May 29, 2026



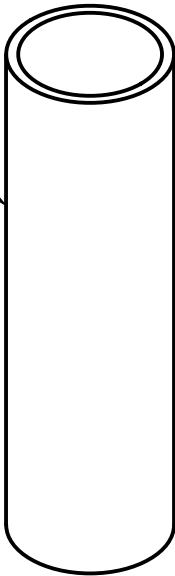
Note: To be wrapped with a $\frac{3}{4}$ " black electrical tape ring around the top. Be careful not to compress the pool noodle when applying the tape.

Note: The fan does not have electrical tape.

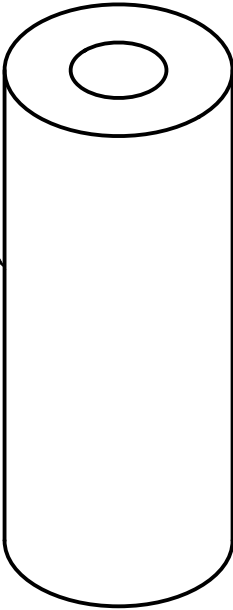
ITEM	QTY	Description	SIZE
PN3	10	2.4" Pool Noodle	$2\frac{3}{8}$ " x 3"

Debris Pieces

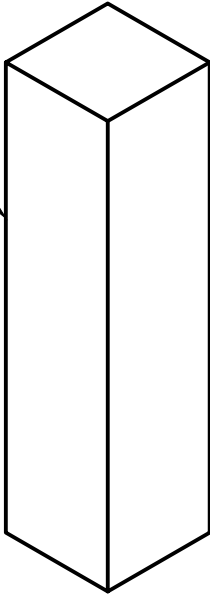
ABS6



PN6



W22



EW8



Note: The wire will be "hand straightend" as best as possible and may have some bends in it.

ITEM	QTY	Description	SIZE
ABS6	8	1½" Black ABS Pipe - 6in Long	1½ x 6"
PN6	8	2.4" Pool Noodle - 6in Long	2.4" x 6"
W22	8	2x2 Lumber - 6in Long	1 ½ x 1 ½ x 6
EW8	8	14/2 Electrical Wire - 8in Long	8"

Suggested Plywood Layout for Exterior and Interior Walls

EW1 (5 ½ X 94 ½)
EW1 (5 ½ X 94 ½)
EW1 (5 ½ X 94 ½)
EW1 (5 ½ X 94 ½)
EW2 (5 ½ X 95 ¼)
EW2 (5 ½ X 95 ¼)
EW2 (5 ½ X 95 ¼)
EW2 (5 ½ X 95 ¼)

EW3 (5 ½ X 84)
EW3 (5 ½ X 84)
EW3 (5 ½ X 84)
EW3 (5 ½ X 84)
EW5 (5 ½ X 83 ¼)
EW5 (5 ½ X 83 ¼)
EW5 (5 ½ X 83 ¼)
EW5 (5 ½ X 83 ¼)

IW1 (5 ½ X 36)	IW1 (5 ½ X 36)	
IW1 (5 ½ X 36)	IW1 (5 ½ X 36)	
IW2 (5 ½ X 30 1/4)	IW2 (5 ½ X 30 1/4)	IW3 (5 ½ X 35)
IW2 (5 ½ X 30 1/4)	IW2 (5 ½ X 30 1/4)	IW3 (5 ½ X 35)
IW3 (5 ½ X 35)	IW3 (5 ½ X 35)	
IW3 (5 ½ X 35)	IW3 (5 ½ X 35)	
IW3 (5 ½ X 35)	IW3 (5 ½ X 35)	
IW4 (5 ½ X 47 3/4)	IW4 (5 ½ X 47 3/4)	

MW1 (9 $\frac{1}{4}$ X 94 $\frac{1}{2}$)	
MW1 (9 $\frac{1}{4}$ X 94 $\frac{1}{2}$)	
MW2 (9 $\frac{1}{4}$ X 94 $\frac{1}{2}$)	
MW3 (9 $\frac{1}{4}$ X 47 $\frac{1}{4}$)	MW3 (9 $\frac{1}{4}$ X 47 $\frac{1}{4}$)
IW4 (5 $\frac{1}{2}$ X 47 3/4)	IW4 (5 $\frac{1}{2}$ X 47 3/4)

Suggested Plywood Layout for Autonomous Zone & ECU

AZ1 (5½ X 30)		AZ1 (5½ X 30)		AZ3 (5½ X 36)	
AZ1 (5½ X 30)		AZ1 (5½ X 30)		AZ3 (5½ X 36)	
AZ1 (5½ X 30)		AZ1 (5½ X 30)		AZ3 (5½ X 36)	
AZ1 (5½ X 30)		AZ1 (5½ X 30)		AZ3 (5½ X 36)	
AZ2 (5½ X 24)		AZ2 (5½ X 24)		AZ2 (5½ X 24)	
AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)
AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)	AZ5 (5½ X 16)
AZE1 (3½ X 18½)	AZE1 (3½ X 18½)	AZE2 (3½ X 12)	AZE2 (3½ X 12)	AZE2 (3½ X 12)	AZE2 (3½ X 12)
FBP1 (2 x 26½)		FBP1 (2 x 26½)		FBP2 (1½ x 24½)	
FBP2 (1½ x 24½)		FBP2 (1½ x 24½)		FBP2 (1½ x 24½)	

ECU2 (18 X 20)	ECU2 (18 X 20)	ECU2 (18 x 20)	ECU2 (18 X 20)	ECU3 (6 X 20)
				ECU3 (6 X 20)
				ECU4 (1½ X 20) x 4
				ECU4 (1½ X 20) x 4
ECU1 (6 X 18)	ECU1 (6 X 18)	ECU1 (6 X 18)	ECU1 (6 X 18)	ECU10 (5¼ X 18)
ECU10 (5¼ X 18)	ECU10 (5¼ X 18)	ECU10 (5¼ X 18)	ECU10 (5¼ X 18)	ECU10 (5¼ X 18)
ECU11 (5¼ X 7)	ECU11 (5¼ X 7)	ECU13 (5¼ X 7) x 4	ECU15 (5¼ X 7)	ECU5 (5 X 7)
ECU14 (4½ X 18)	ECU14 (4½ X 18)	ECU16 (4 X 5½)	ECU8 (3½ X 7) x 2	ECU7 (3 X 7) x 4
ECUS (6¼ x 19⅞)	ECUS (6¼ x 19⅞)			

AZ4 (5½ X 85½)								AZ6 (5½ X 8)
AZ4 (5½ X 85½)								AZ6 (5½ X 8)
AZ4 (5½ X 85½)								AZ6 (5½ X 8)
AZ4 (5½ X 85½)								AZ6 (5½ X 8)
FBS1 (2 x 28)		FBS1 (2 x 28)		FBS1 (2 x 28)				
FBS1 (2 x 28)		FBS1 (2 x 28)		FBS1 (2 x 28)				
FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		
FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		
FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		FBS2 (1½ x 21½)		
2PS1 (6 X 12)	2PS1 (6 X 12)	3PS1 (6 X 12)	3PS1 (6 X 12)	2PS6 (6 X 7)	2PS6 (6 X 7)	FE2 (6 x 8)	FE2 (6 x 8)	2PS2 (5¼ x 6¾)
	3PS3 (3¾ x 6) x 4	3PS3 (3¾ x 6¾) x 2	FH1 (3 x 16)	FH1 (3 x 16)				
	2PS5 (1½ x 6) x 4		3PS2 (1½ x 6) x 4					

Additional Materials

ITEM	QTY	Description	Link/Size
EU18	12	1" dowel (12 pieces x 3" long)	1 x 3
ECUS	2	$\frac{3}{4}$ " Plywood (ECU Shelf in Auto Zone)	$\frac{3}{4}$ x 6 $\frac{1}{4}$ z 19 $\frac{7}{8}$
3PS4	2	$\frac{1}{2}$ " Plywood	$\frac{1}{2}$ X 6 X 8
3PS5	2	$\frac{1}{2}$ " Plywood	$\frac{1}{2}$ X 4 X 8
3PS6	2	$\frac{1}{2}$ " Plywood	$\frac{1}{2}$ X 4 X 8
W22	12	2" x 2" Lumber (6in x 12 pieces)	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 6
AS6	48in	1 $\frac{1}{2}$ " ABS Black Pipe (8 x 6in pieces)	1 $\frac{1}{2}$ " x 6"
PN3	1	2.4" x 56in Pool Noodle (10 x 3in pieces)	https://bit.ly/23PoolNoodles
PN6	1	2.4' X 56" Pool Noodle (8 x 6in pieces)	https://bit.ly/23PoolNoodles
EU17	8	3in Barrel Bolt	https://bit.ly/23BarrelBolts
ET	2	3/4in Black Electrical Tape	https://bit.ly/23ElectricalTape
EW8	48in	14/2 House Wire (8in x 6 pieces)	https://bit.ly/23Wire
DT	1 Roll	2in Gorilla Duct Tape	https://bit.ly/23DuctTape
WM	6	8 $\frac{1}{2}$ " Wooden Art Mannequin	https://amzn.to/4o6h8n7
CB1	6	Carriage Bolt	$\frac{3}{8}$ " x 3"
N1	6	$\frac{3}{8}$ " Nut	$\frac{3}{8}$ "
LN2	2	$\frac{3}{8}$ " Lock Nut	$\frac{3}{8}$ "
W1	6	$\frac{3}{8}$ " Washer	$\frac{3}{8}$ "
CDB1	2	2x4 Lumber	1 $\frac{1}{2}$ " X 3 $\frac{1}{2}$ " X 12"