

RESOURCES		
Resource	Material	Quantity
1	4 ft. x 8 ft. x 1/2" Plywood	1 Sheet
2	2x4 Lumber	30 Inches
3	4" Adhesive Back Hook Velcro	15 Feet
4	Wood Glue	As Needed
5	Staples	As Needed

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TE-12001-01	Barrier, Base
2	6	TE-12001-02	2x6, Barrier
3	1	TE-12001-03	Plywood Top, Barrier
4	2	TE-12001-04	Plywood Side, Barrier
5	2	TE-12001-05	4" Hook Velcro, Adhesive Backed

DRAWN mcyr	12/16/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907	
CHECKED			
UNLESS OTHERWISE SPECIFIED			
TOLERANCES: (INCHES)			
FRAC.	+/- .1/32		
.00	+/- .01		
.000	+/- .005		
ANGULAR	+/- .25 Deg.	SCALE	SHEET 1 OF 6
			REV
			TE-12001

4

1

3

4

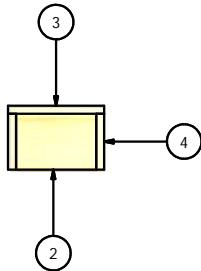
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1

1

D

D

**Side View**

C

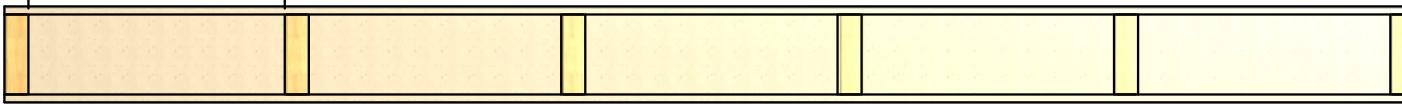
C

16.00 TYP.

Bottom View

B

B

**NOTE:**

- 1.) Attach items 2,3 and 4 using staples and glue
- 2.) You may add more of item 2, the 2x6 barrier if you will be hitting it a lot with robots

DRAWN mcyr	12/16/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
CHECKED				
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)				
FRAC.	+/- 1/32			
.00	+/- .01			
.000	+/- .005			
ANGULAR	+/- .25 Deg.	SCALE		SHEET 2 OF 6
				REV

4

1

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4

2

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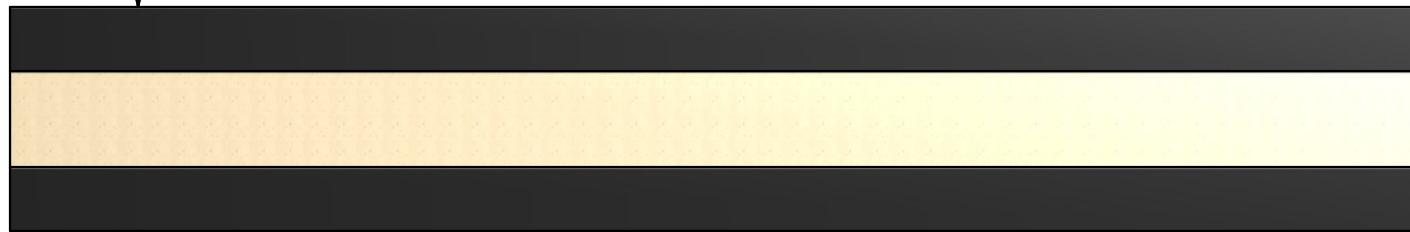
4 1 3 2 1

D

D

1

5



C

C

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B

B

A

A

NOTE:

- 1.) Attach item 1 using wood screws
- 2.) Attach adhesive back velcro. You may need to staple this on in addition to the adhesive.

DRAWN mcyr	12/16/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
CHECKED				
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)				
FRAC.	+/- 1/32			
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.000	+/- .005			
ANGULAR	+/- .25 Deg.	SCALE		SHEET 3 OF 6
SIZE C	DWG NO TE-12001	REV		

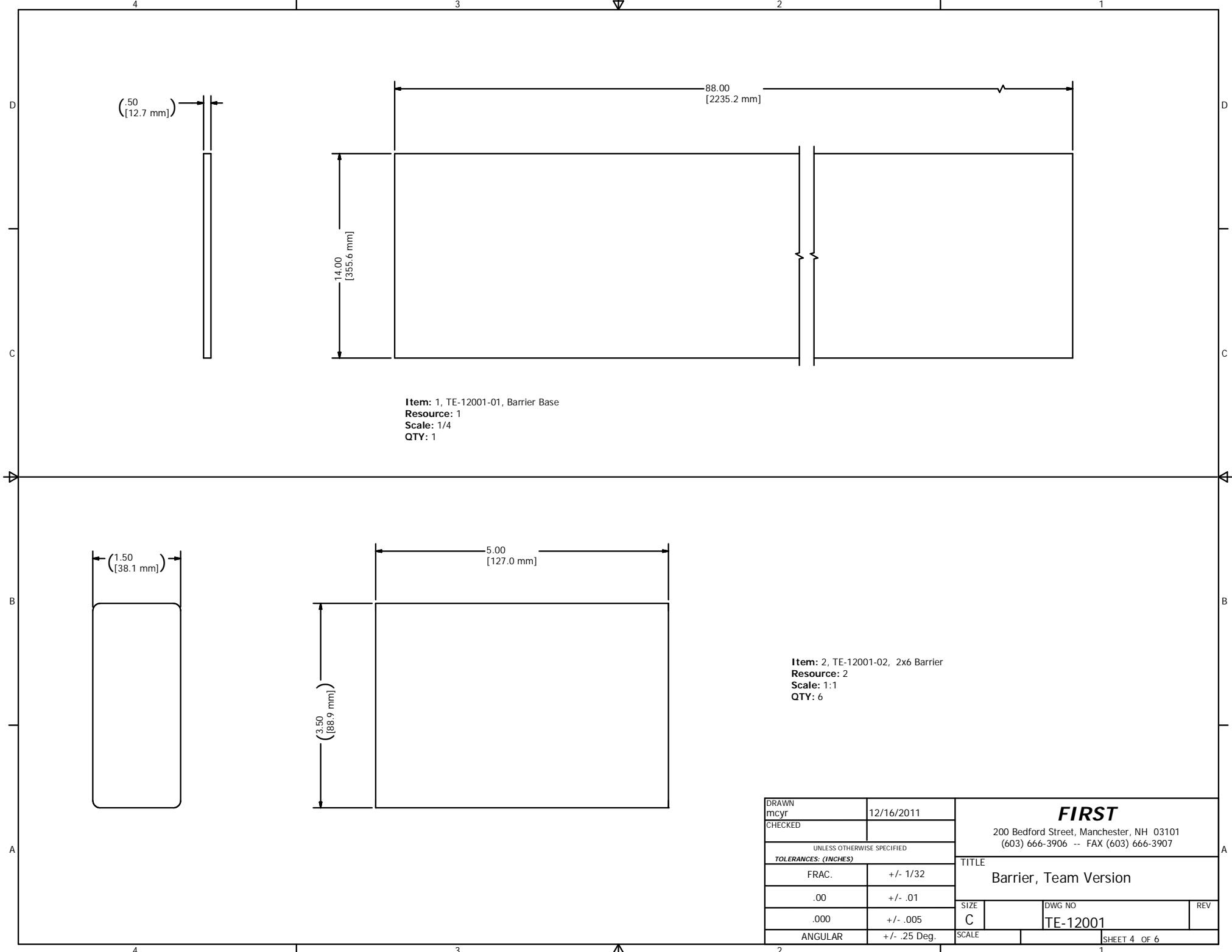
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3

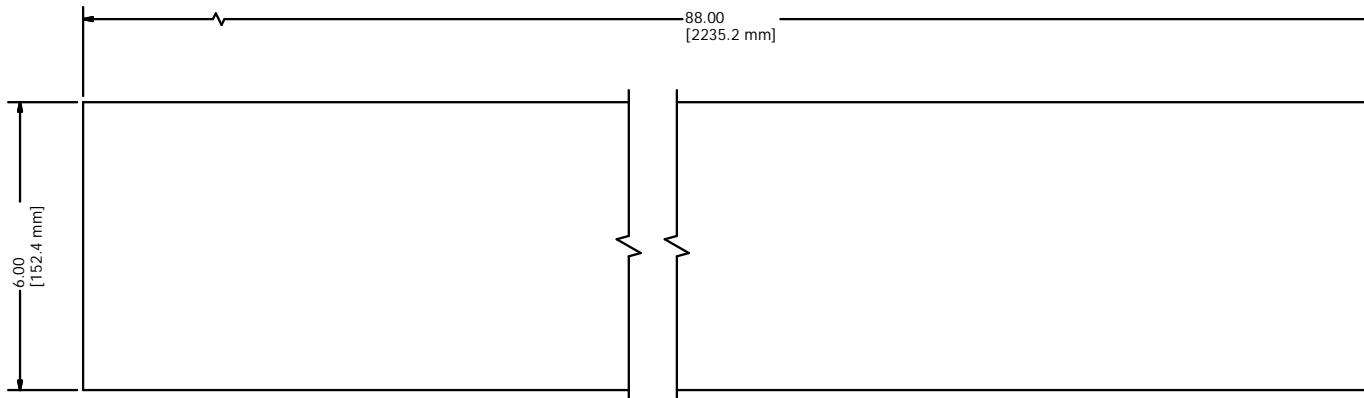
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1

1

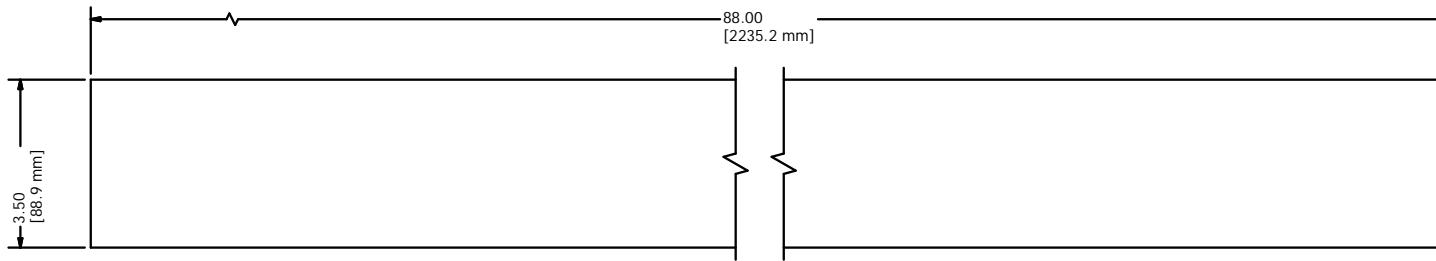


(.50
[12.7 mm])



Item: 3, TE-12001-03, Plywood Top Barrier
Resource: 1
Scale: 1/2
QTY: 2

(.50
[12.7 mm])



Item: 4, TE-12001-04, Plywood Side Barrier
Resource: 1
Scale: 1/2
QTY: 2

DRAWN
mcyr
CHECKED

UNLESS OTHERWISE SPECIFIED

TOLERANCES: (INCHES)

FRAC. +/- 1/32

.00 +/- .01

.000 +/- .005

ANGULAR +/- .25 Deg.

FIRST

200 Bedford Street, Manchester, NH 03101
(603) 666-3906 -- FAX (603) 666-3907

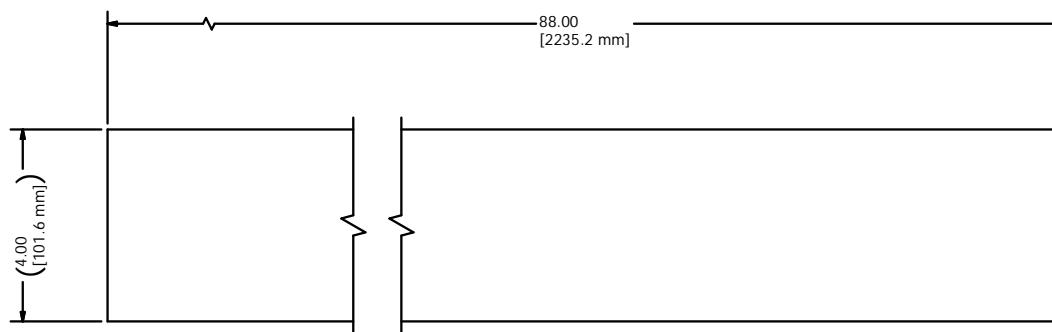
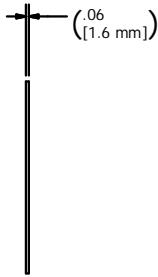
TITLE
Barrier, Team Version

SIZE C DWG NO TE-12001 REV

SCALE SHEET 5 OF 6

4 | 3 | 2 | 1

D



Item: 4, TE-12001-04, 4" Hook adhesive back velcro
Resource: 3
Scale: 1/2
QTY: 2

→

B

A

D

C

←

B

A

DRAWN mcyr	12/16/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/- 1/32	Barrier, Team Version		
.00	+/- .01	SIZE		
.000	+/- .005	DWG NO		
ANGULAR	+/- .25 Deg.	TE-12001		
SCALE		REV		
		SHEET 6 OF 6		

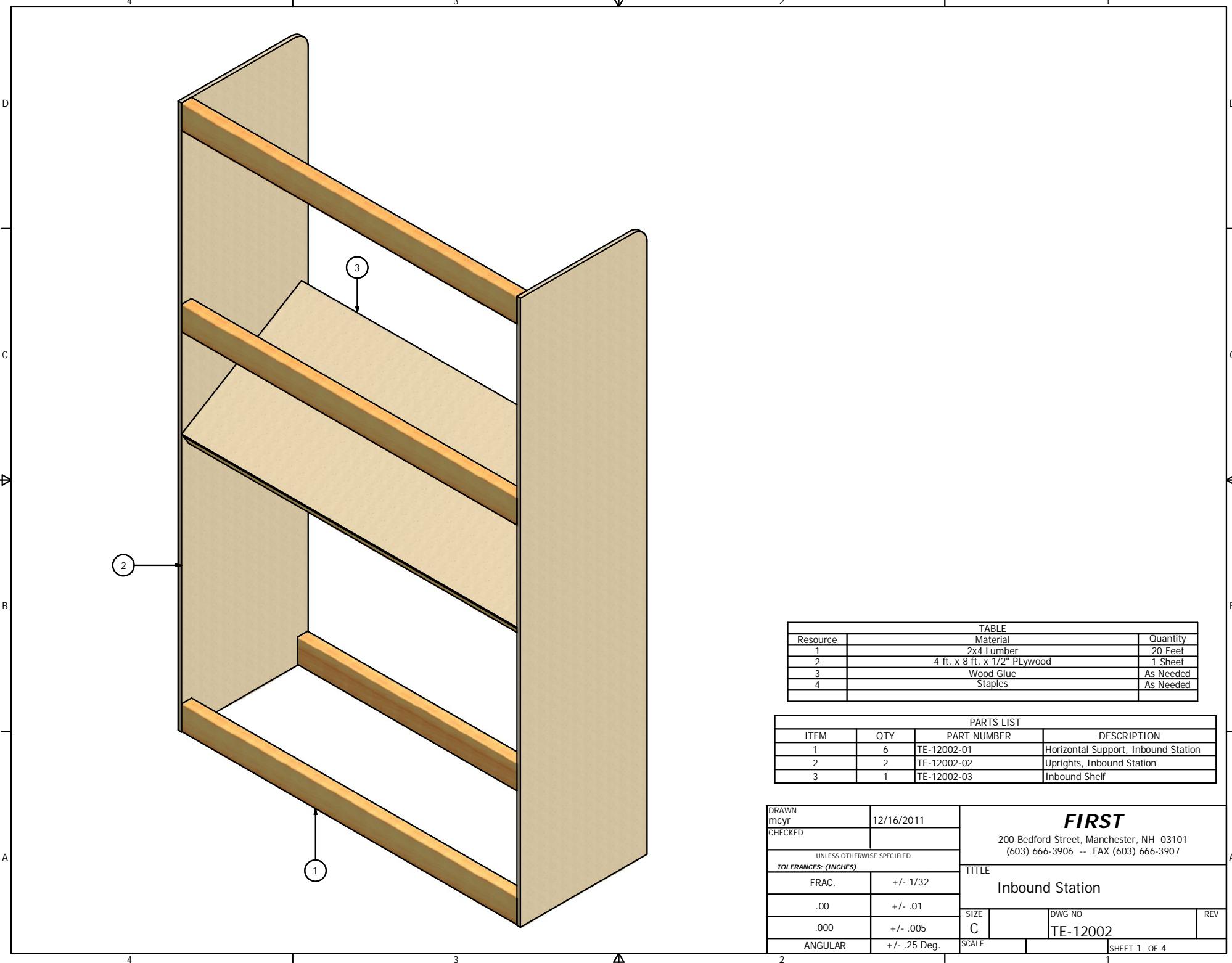
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3

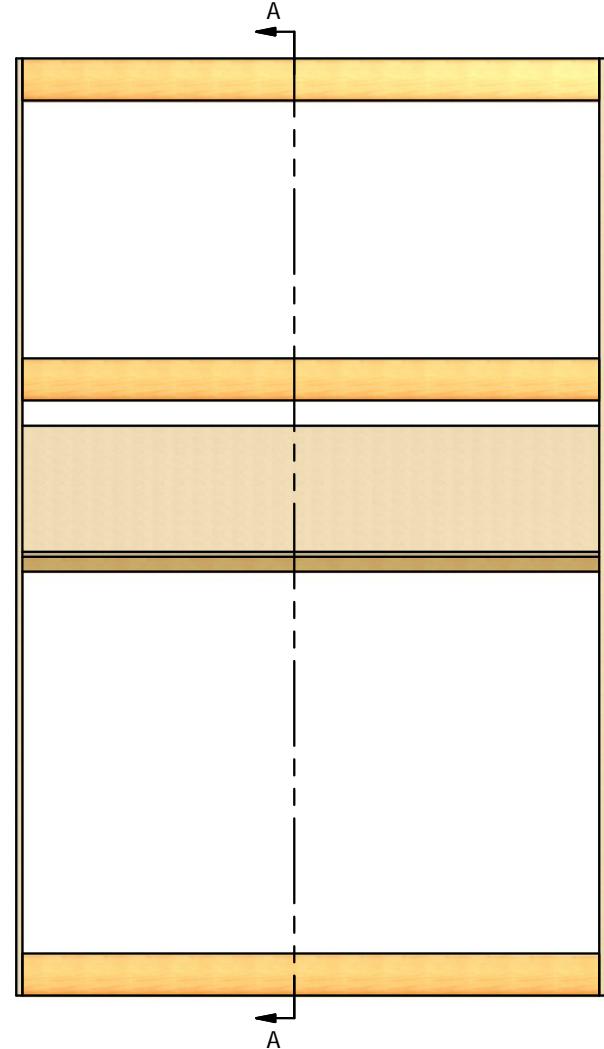
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1

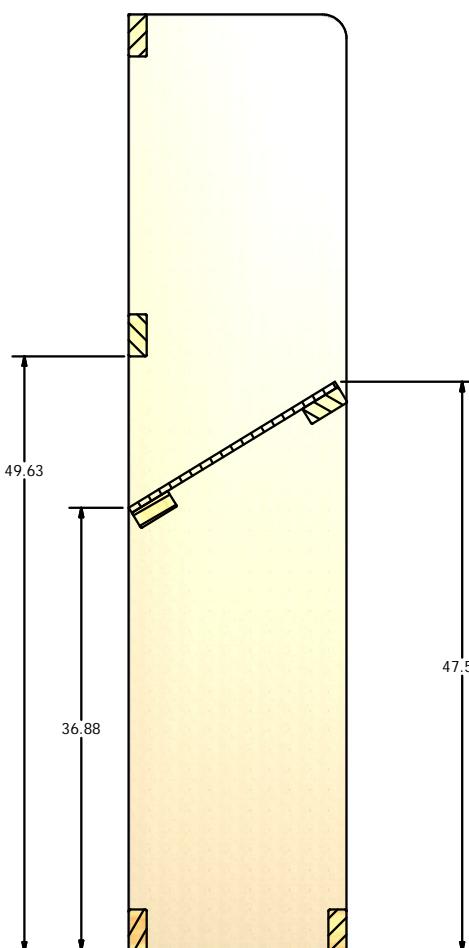
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4 1 3 2 1



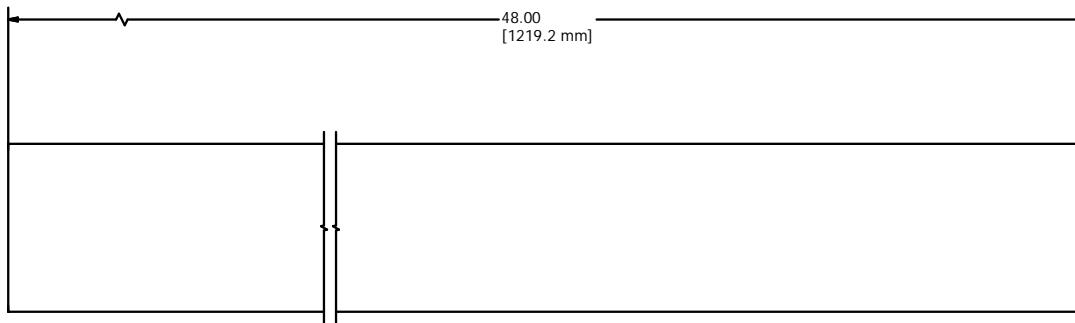
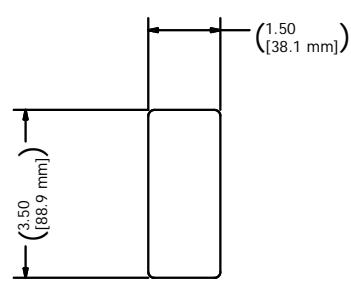
NOTE:
1.) Assemble items as shown using staples and wood glue



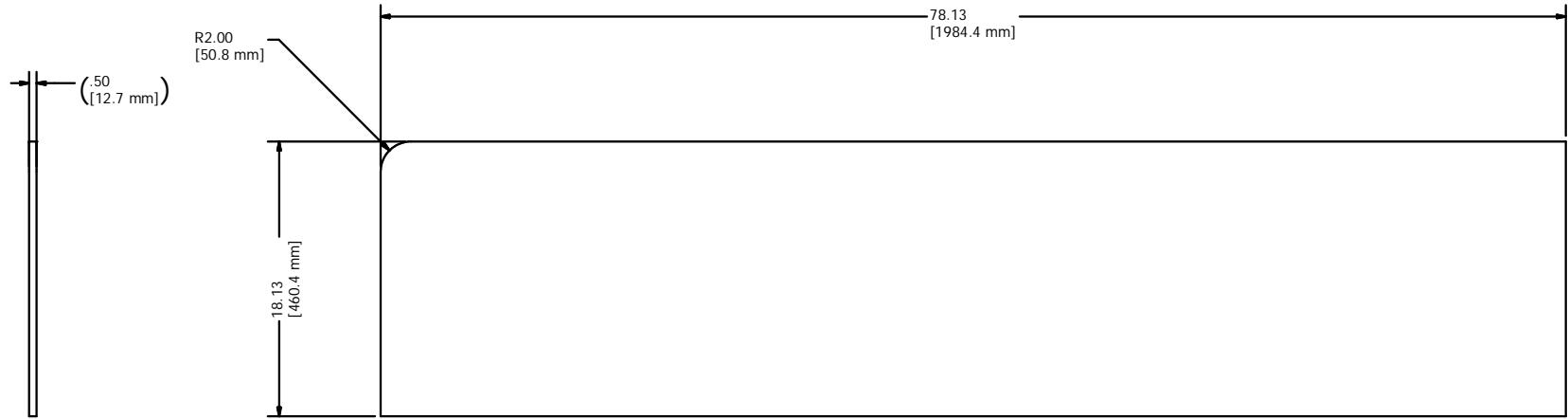
DRAWN mcyr	12/16/2011	FIRST					
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907					
UNLESS OTHERWISE SPECIFIED							
TOLERANCES: (INCHES)							
FRAC.	+/- .1/32						
.00	+/- .01						
.000	+/- .005						
ANGULAR	+/- .25 Deg.	SCALE		SHEET 2 OF 4			
SIZE C		DWG NO TE-12002	REV				

4 1 3 2 1

4 1 3 2 1



Item: 1, TE-12002-01, Horizontal Support, Inbound Station
Resource: 1
Scale: 1/2
QTY: 5



Item: 1, TE-12002-02, Uprights, Inbound Station
Resource: 1
Scale: 1/6
QTY: 2

DRAWN mcyr	12/16/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		FRAC.	+/- .1/32	
	.00		+/- .01	
	.000		+/- .005	
	ANGULAR		+/- .25 Deg.	
SHEET 3 OF 4	SCALE	DWG NO	TE-12002	REV

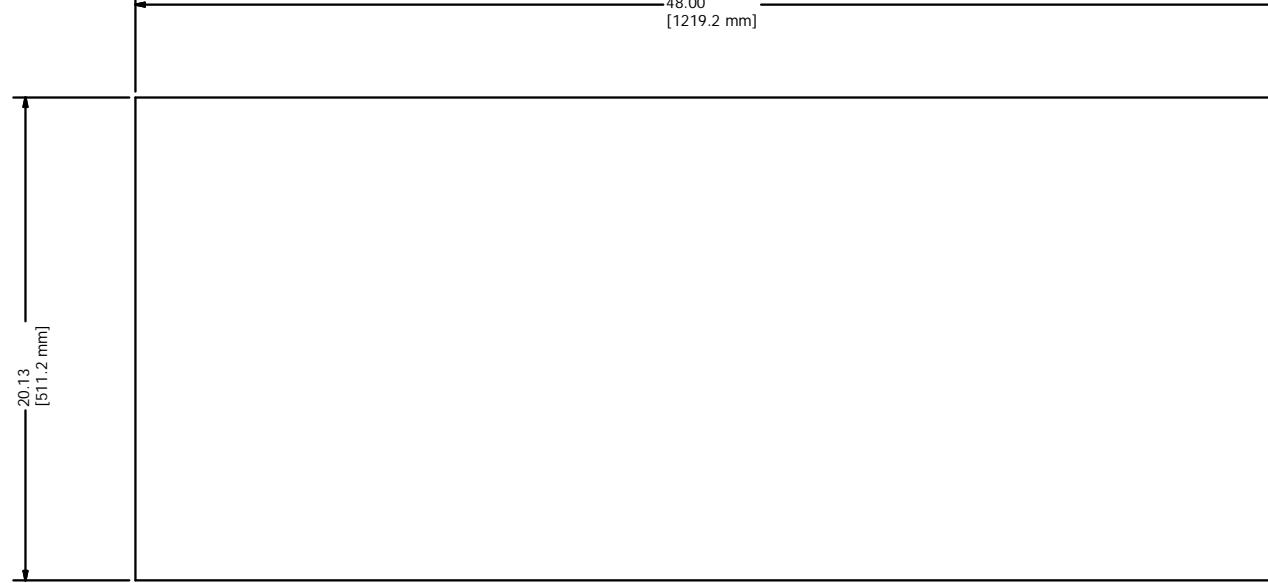
4 1 3 2 1

4 1 3 2 1

D

D

(.50
[12.7 mm])



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△

B

B

Item: 1, TE-12002-03, Inbound Shelf
Resource: 1
Scale: 1/4
QTY: 1

A

A

DRAWN mcyr	12/16/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)				
FRAC.	+/- .1/32			
.00	+/- .01			
.000	+/- .005			
ANGULAR	+/- .25 Deg.	SCALE		SHEET 4 OF 4
				REV

4 1 3 2 1

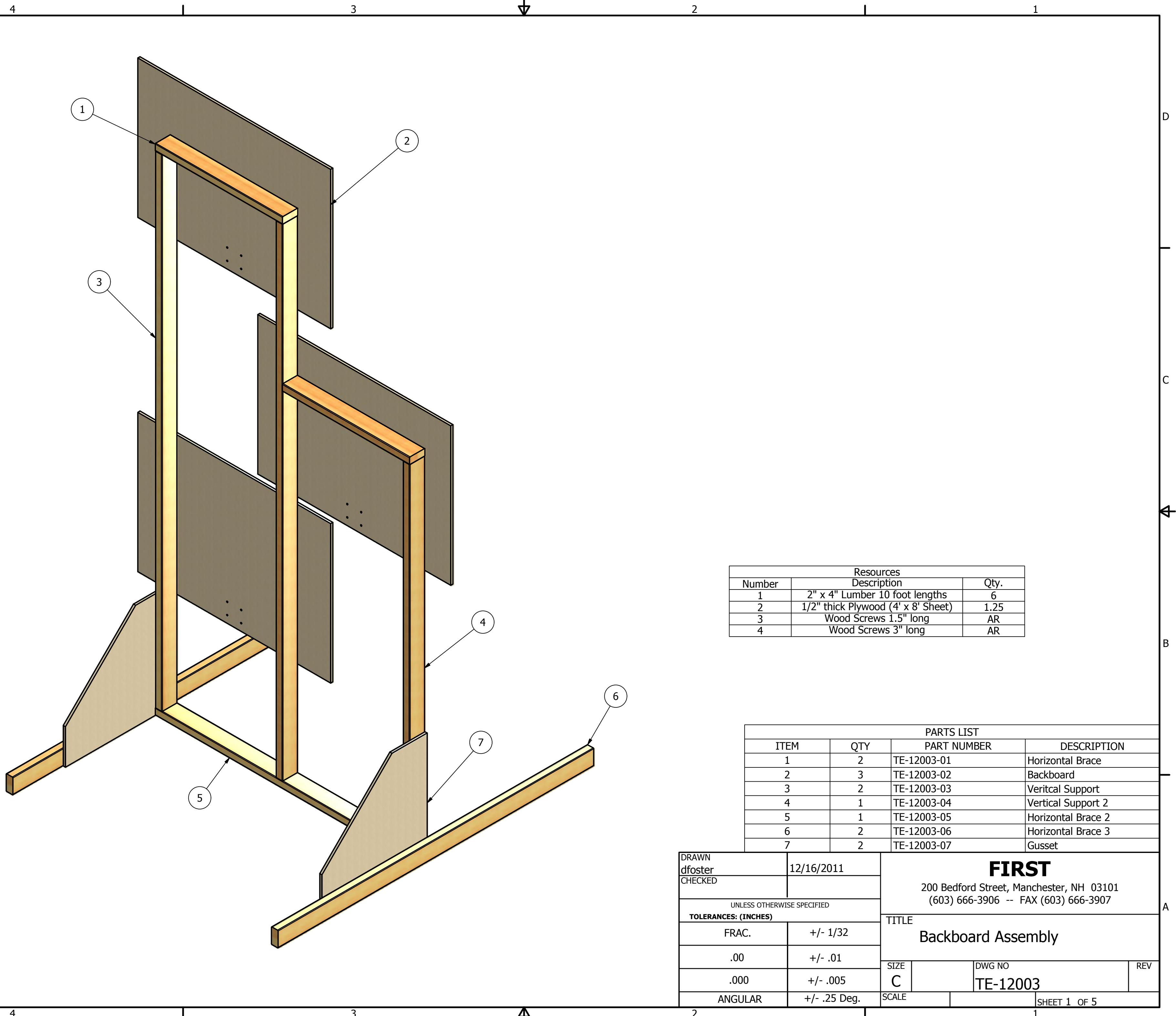
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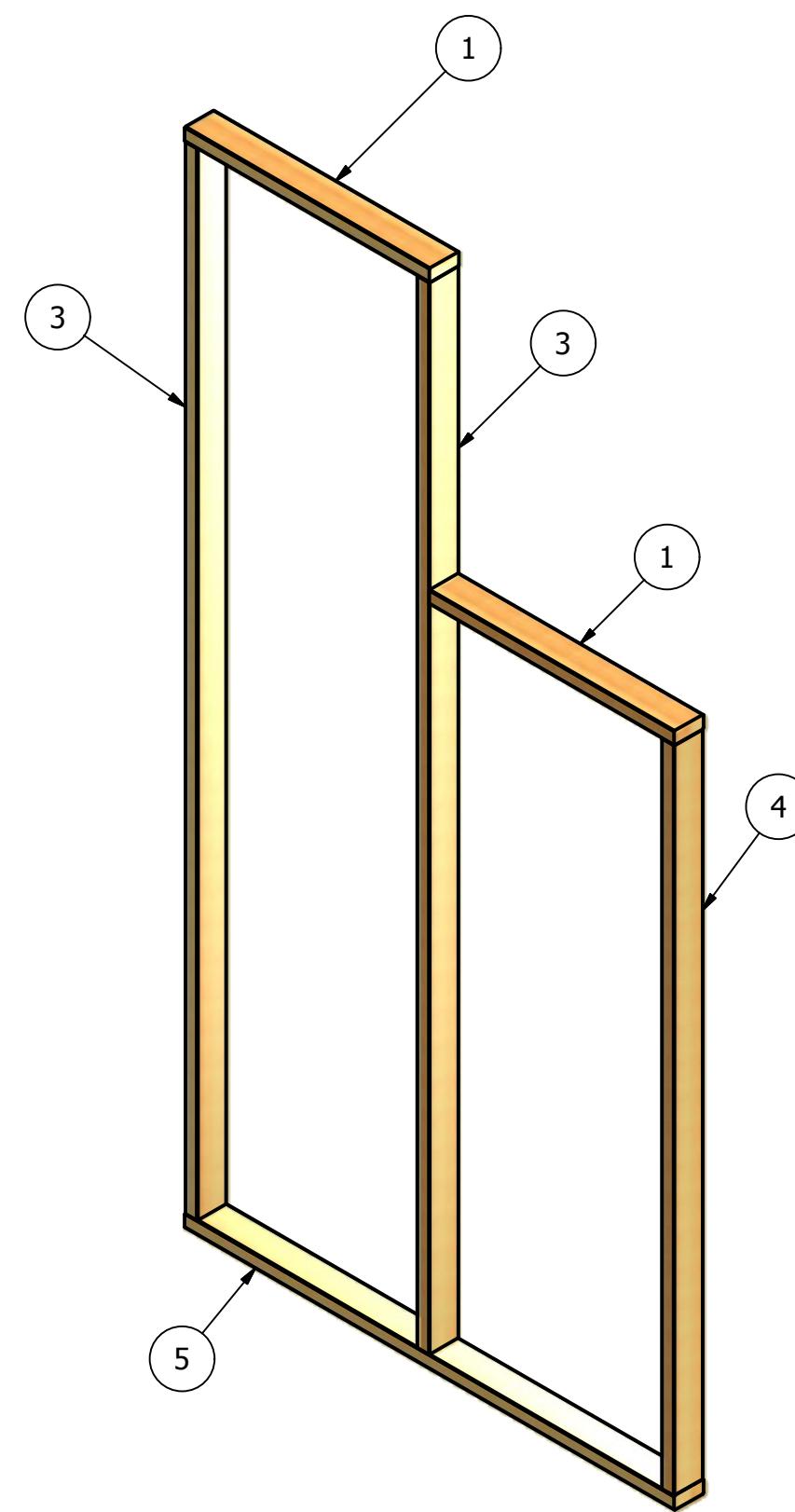
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1

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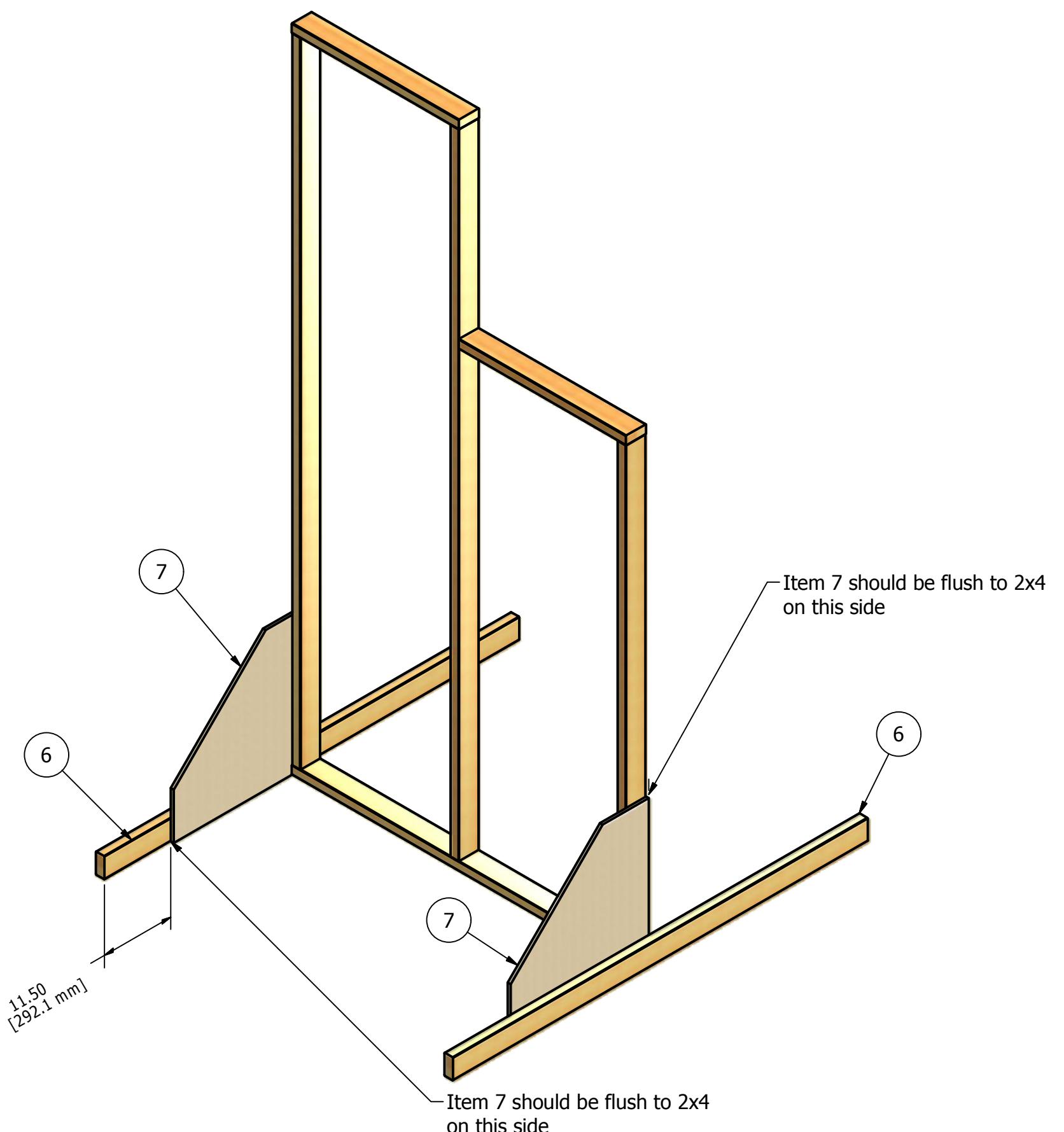
Assembly Step 1



Notes:

1. Attach Items 1, 3, 4 and 5 to one another as shown using 3" Wood Screws as appropriate.

Assembly Step 2



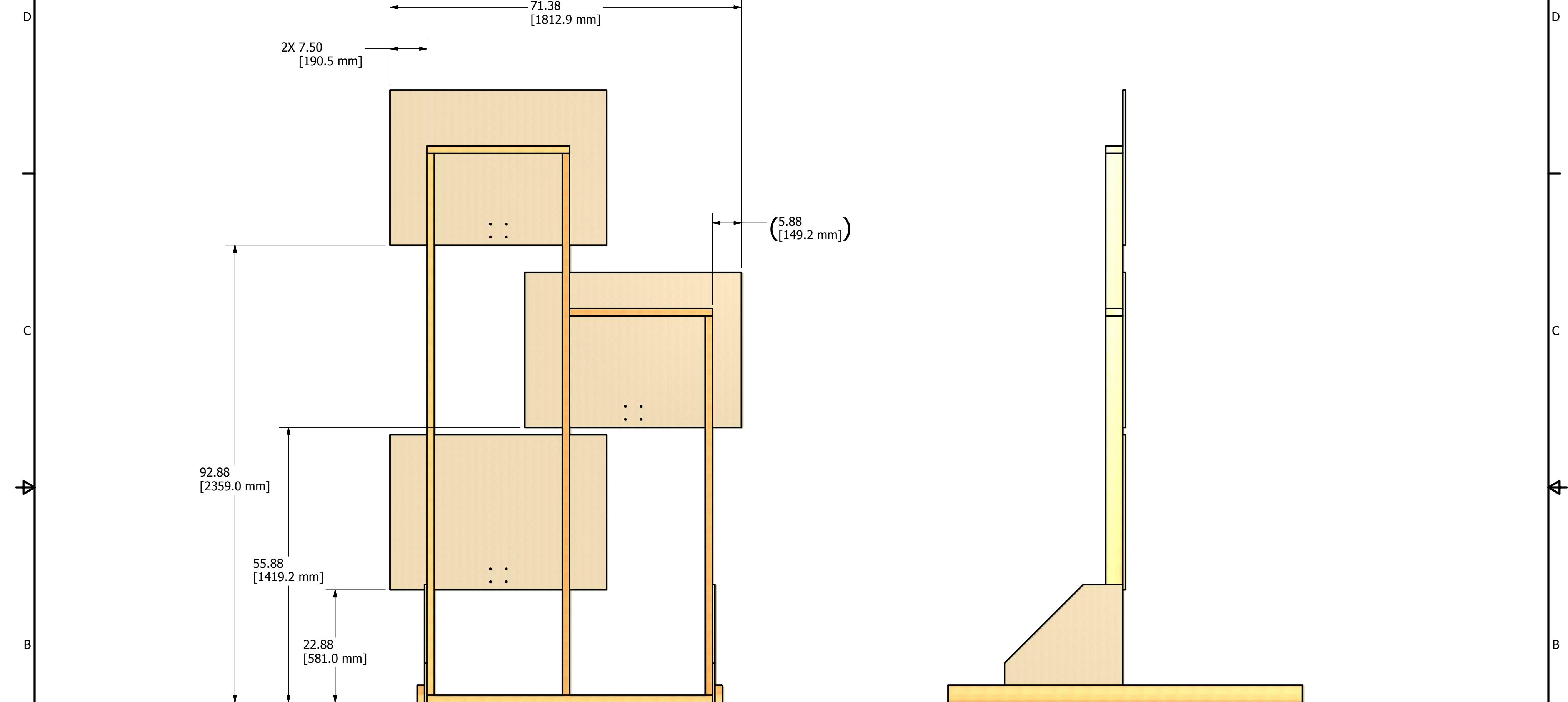
Notes:

1. Attach Item 7 to the assembly from Step 1 using 1.5" long wood screws.
2. Attach Item 6 to Item 7 as shown using using 1.5" long wood screws.

DRAWN dfoster	12/16/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/- 1/32	Backboard Assembly		
.00	+/- .01	SIZE		
.000	+/- .005	DWG NO		
ANGULAR	+/- .25 Deg.	SCALE		REV
		TE-12003		
		SHEET 2 OF 5		

4 3 2 1

Assembly Step 3



Notes:

1. Attach Item 2 (3X) as shown using 1.5" long wood screws.

DRAWN dfoster	12/16/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907					
CHECKED							
UNLESS OTHERWISE SPECIFIED							
TOLERANCES: (INCHES)							
FRAC.	+/- 1/32						
.00	+/- .01						
.000	+/- .005						
ANGULAR	+/- .25 Deg.	SCALE	DWG NO	REV			
			TE-12003				
			SHEET 3 OF 5				

4 3 2 1

4

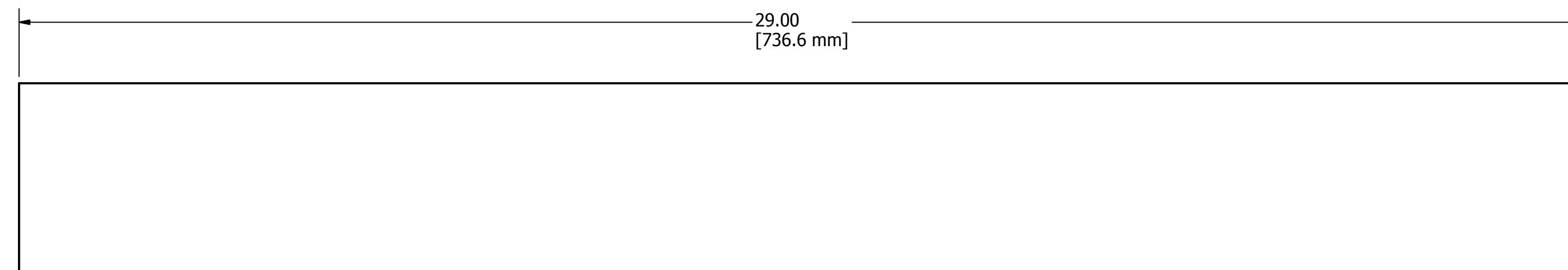
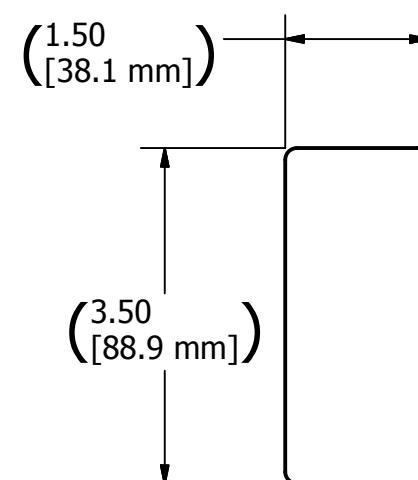
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D

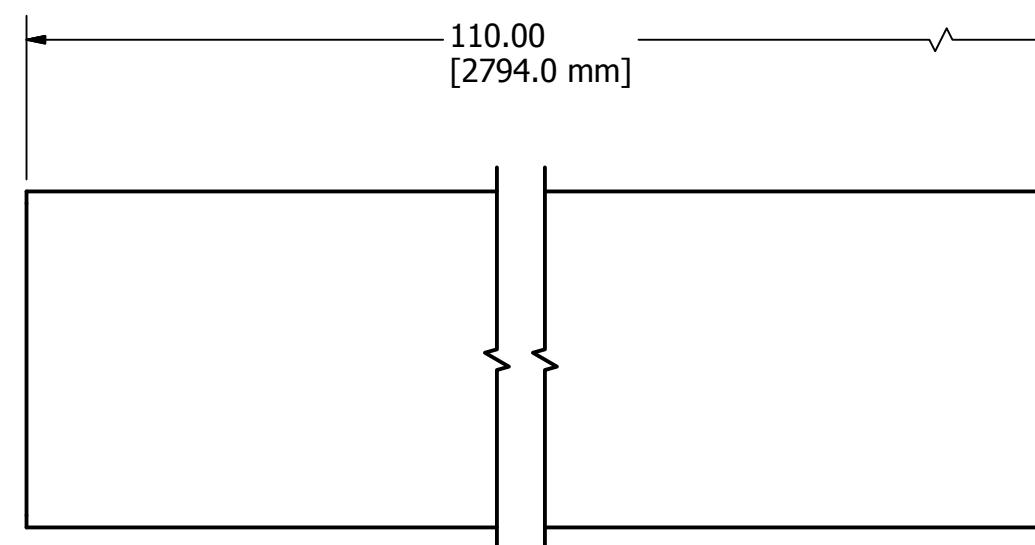
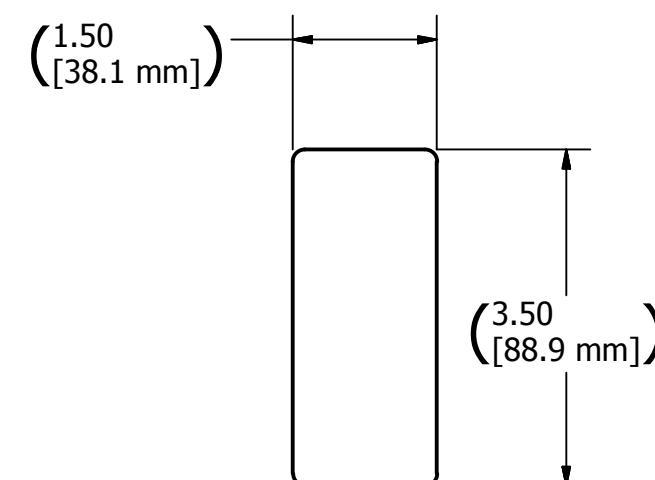
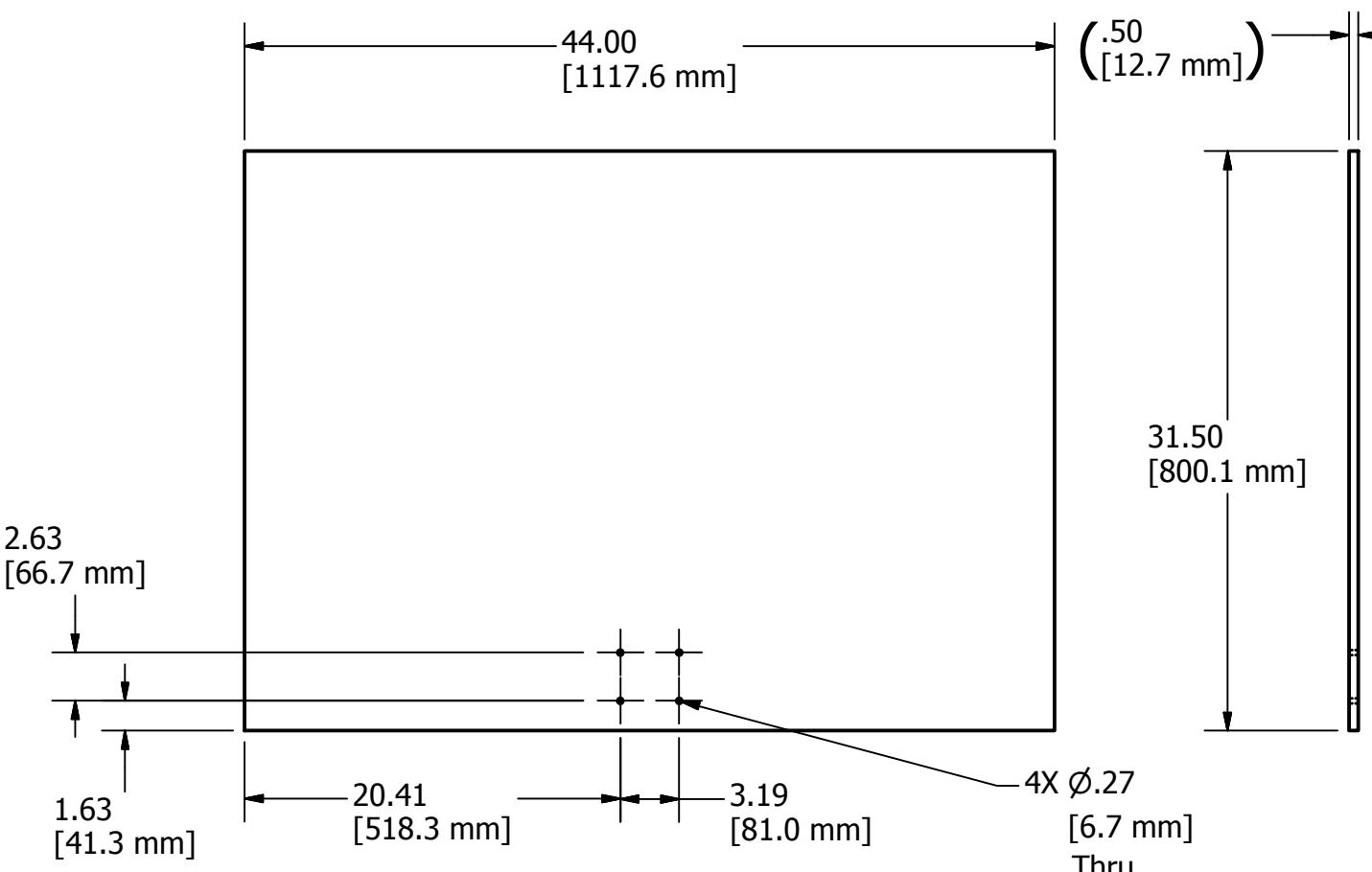
D



Item: 1, TE-12003-01, Horizontal Brace
Resource: 1
Scale: 1/2
QTY: 2

C

C



Item: 3, TE-12003-03, Vertical Support
Resource: 1
Scale: 1/2
QTY: 2

Item: 2, TE-12003-02, Backboard
Resource: 2
Scale: 1/10
QTY: 3

DRAWN dfoster	12/16/2011	FIRST	
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907	
UNLESS OTHERWISE SPECIFIED			
TOLERANCES: (INCHES)		TITLE	
FRAC.	+/- 1/32	Backboard Assembly	
.00	+/- .01	SIZE	
.000	+/- .005	DWG NO	
ANGULAR	+/- .25 Deg.	SCALE	REV
		TE-12003	
		SHEET 4 OF 5	

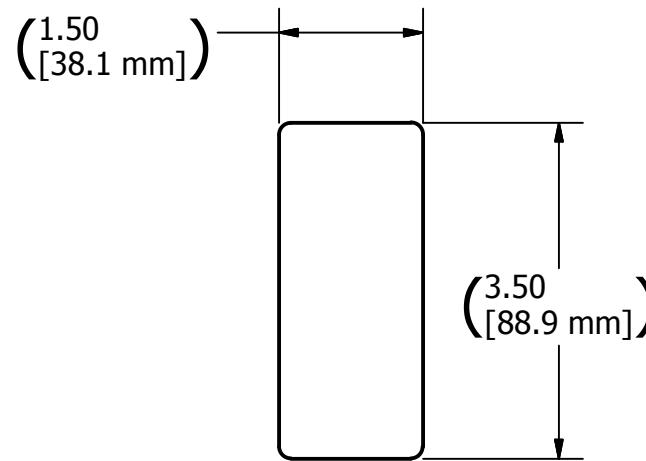
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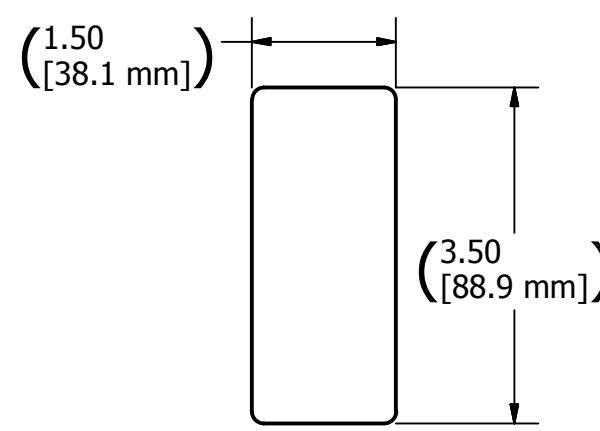
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1

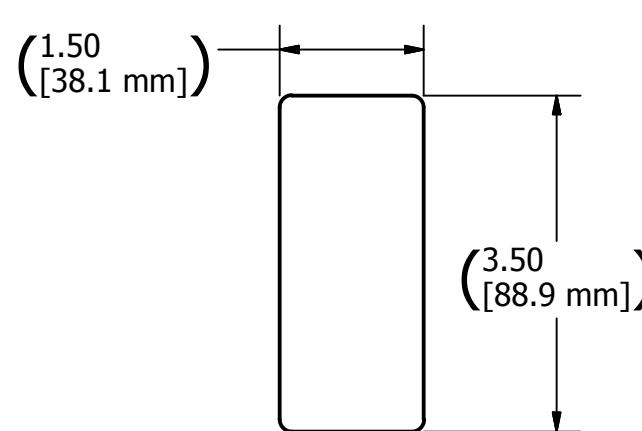
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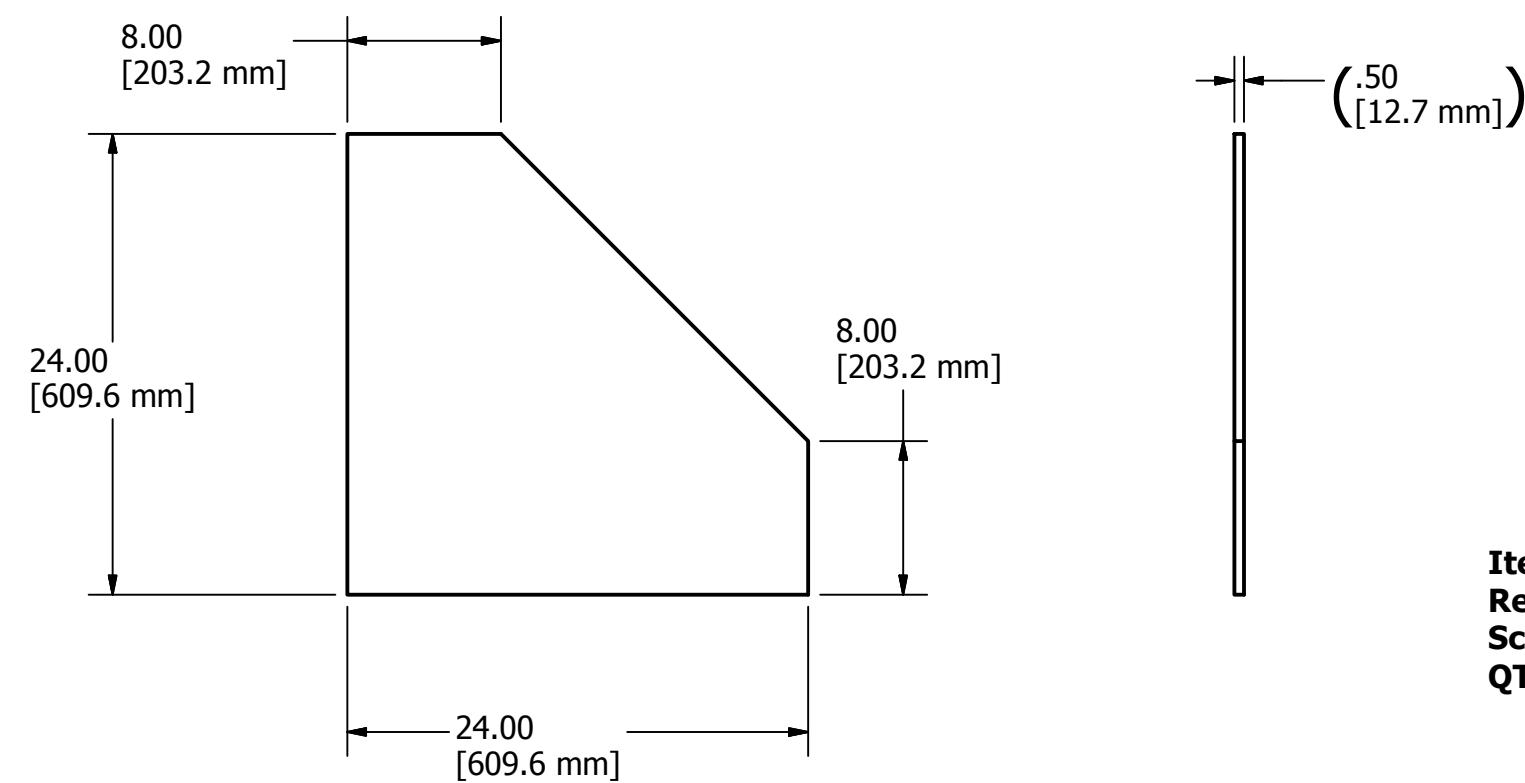
Item: 4, TE-12003-04, Vertical Support 2
Resource: 1
Scale: 1/2
QTY: 1



Item: 5, TE-12003-05, Horizontal Brace 2
Resource: 1
Scale: 1/2
QTY: 1



Item: 6, TE-12003-06, Horizontal Brace 3
Resource: 1
Scale: 1/2
QTY: 2



Item: 7, TE-12003-07, Gusset
Resource: 2
Scale: 1/10
QTY: 2

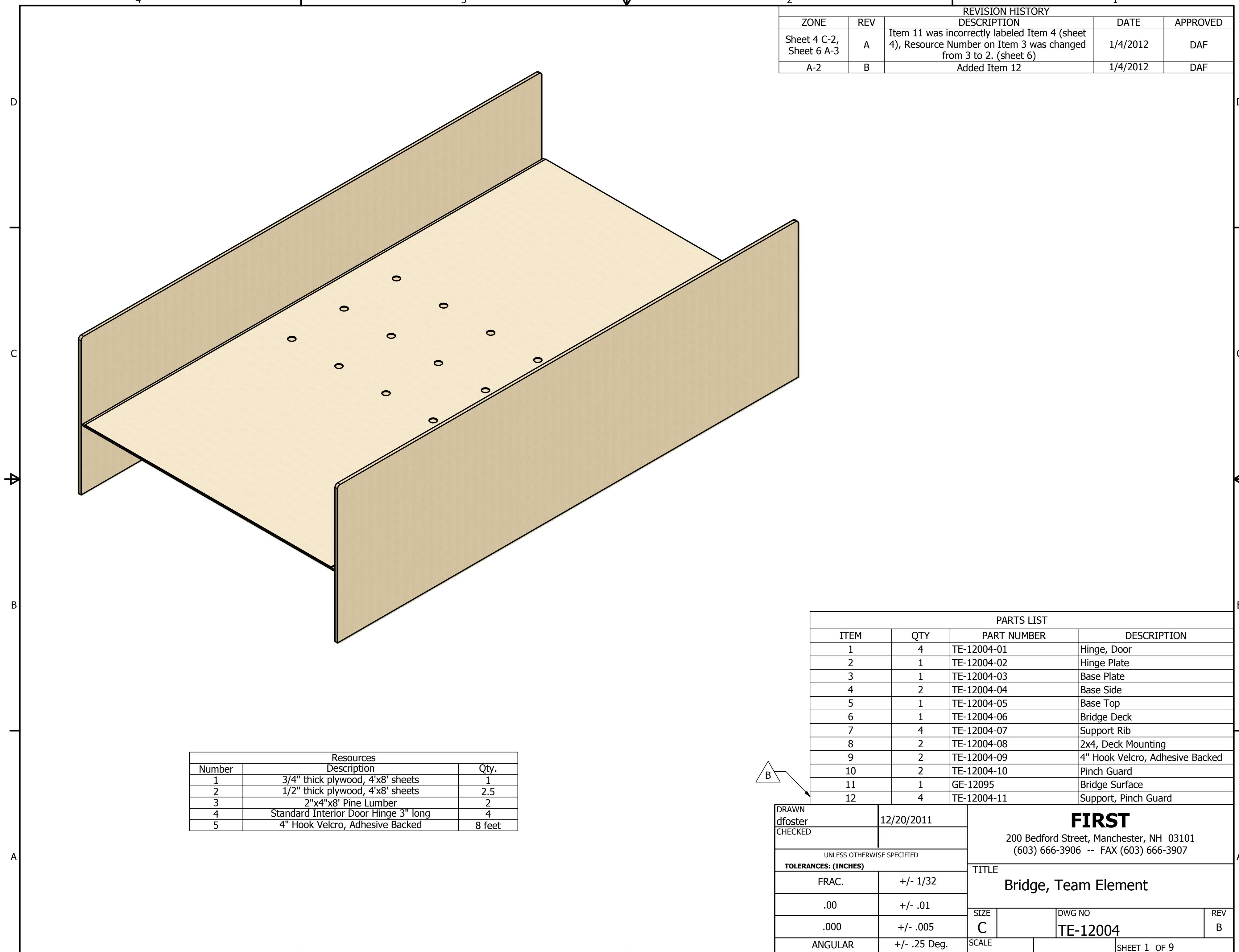
DRAWN dfoster	12/16/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/-.1/32	Backboard Assembly		
.00	+/-.01	SIZE		
.000	+/-.005	DWG NO		
ANGULAR	+/-.25 Deg.	SCALE		REV
				SHEET 5 OF 5

4

3

2

1



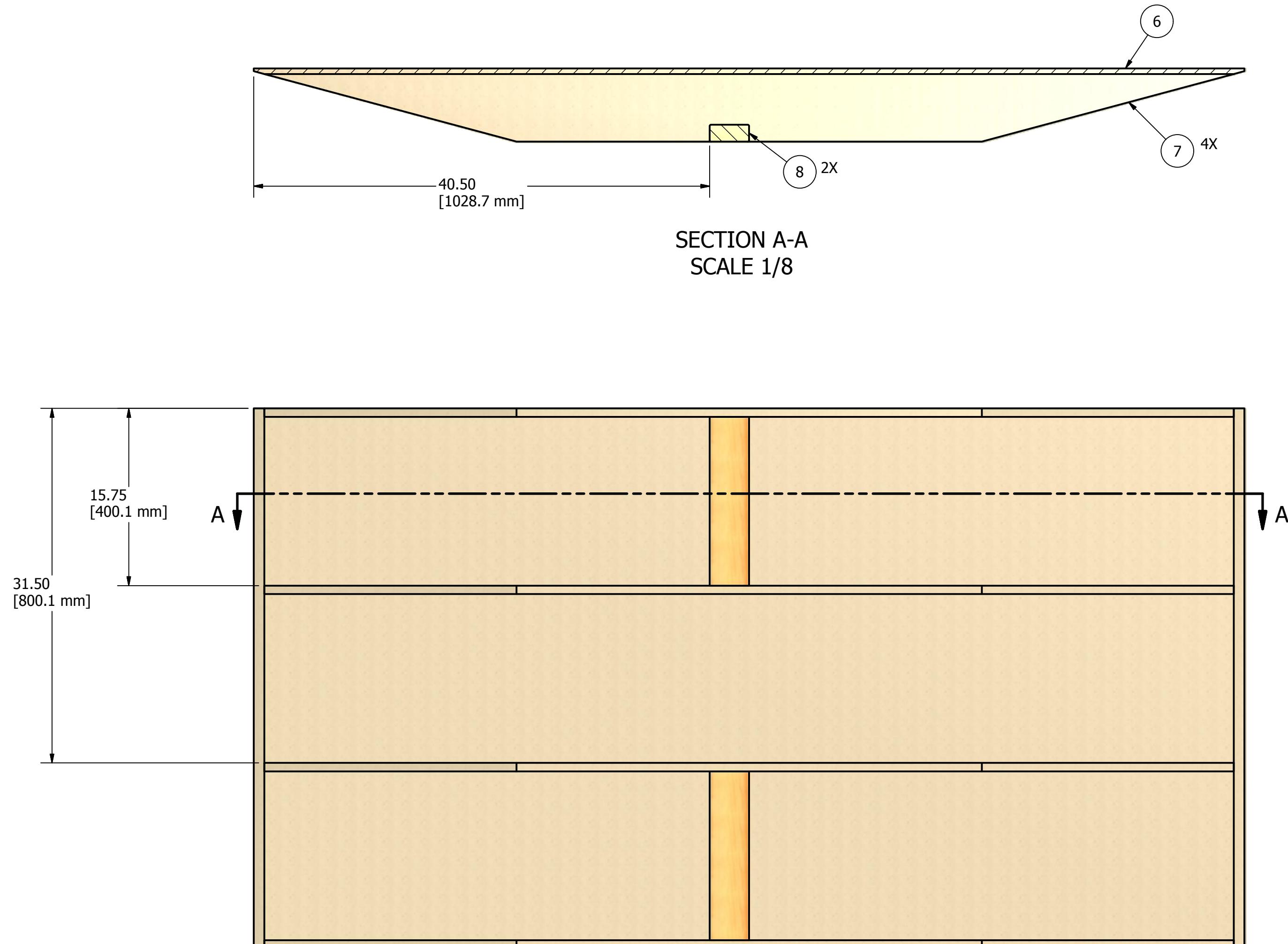
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3

2

1

Assembly Step 1



Notes:

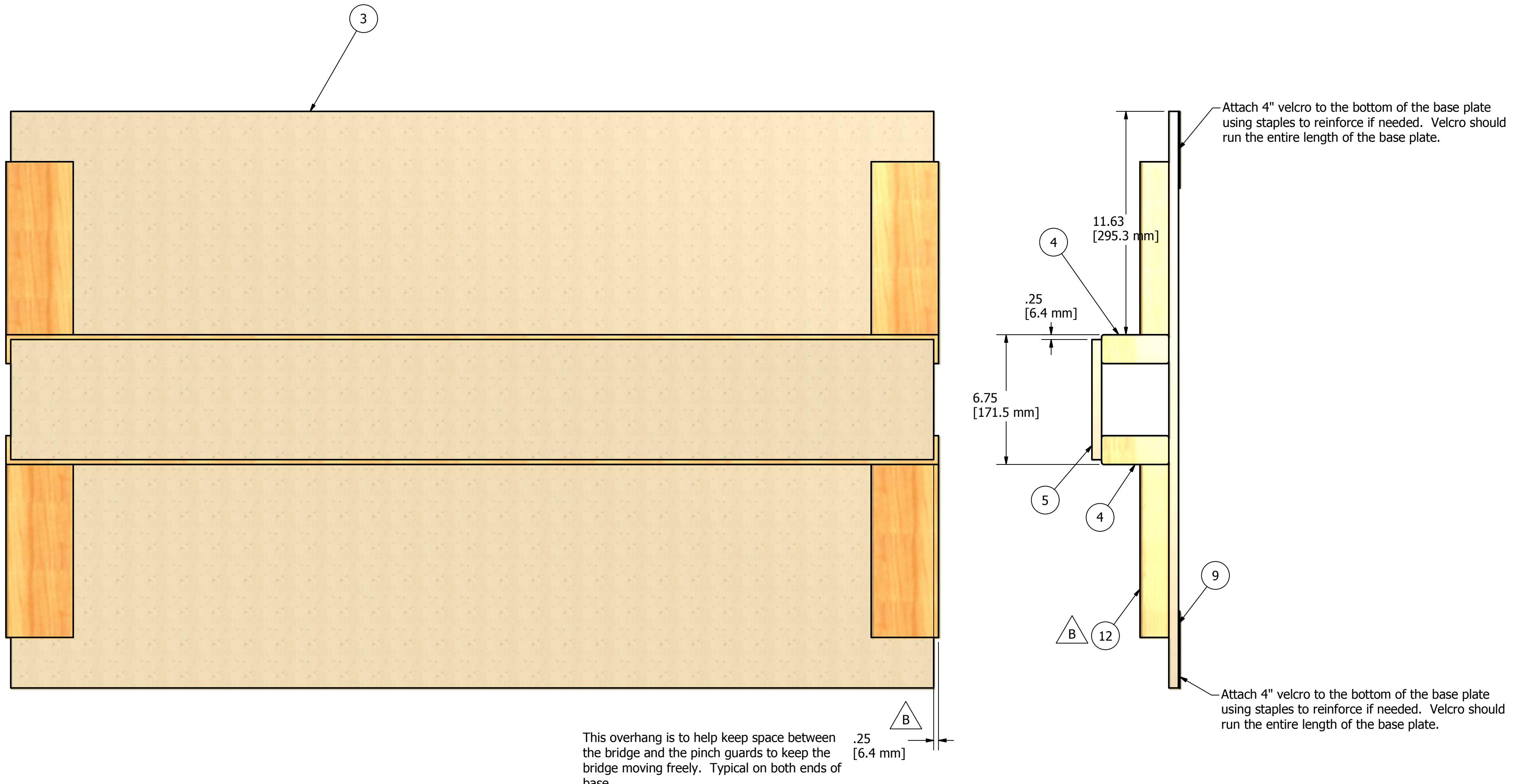
1. Use wood screws and glue as required to build assembly.

DRAWN dfoster	12/20/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907					
CHECKED							
UNLESS OTHERWISE SPECIFIED							
TOLERANCES: (INCHES)							
FRAC.	+/- 1/32						
.00	+/- .01						
.000	+/- .005						
ANGULAR	+/- .25 Deg.	SCALE	DWG NO	REV			
			TE-12004	B			
			SHEET 2 OF 9				

REVISION HISTORY

ZONE	REV	DESCRIPTION	DATE	APPROVED
B-2	B	Added .25" dimension and note, added Item 12	1/4/2012	DAF

Assembly Step 2

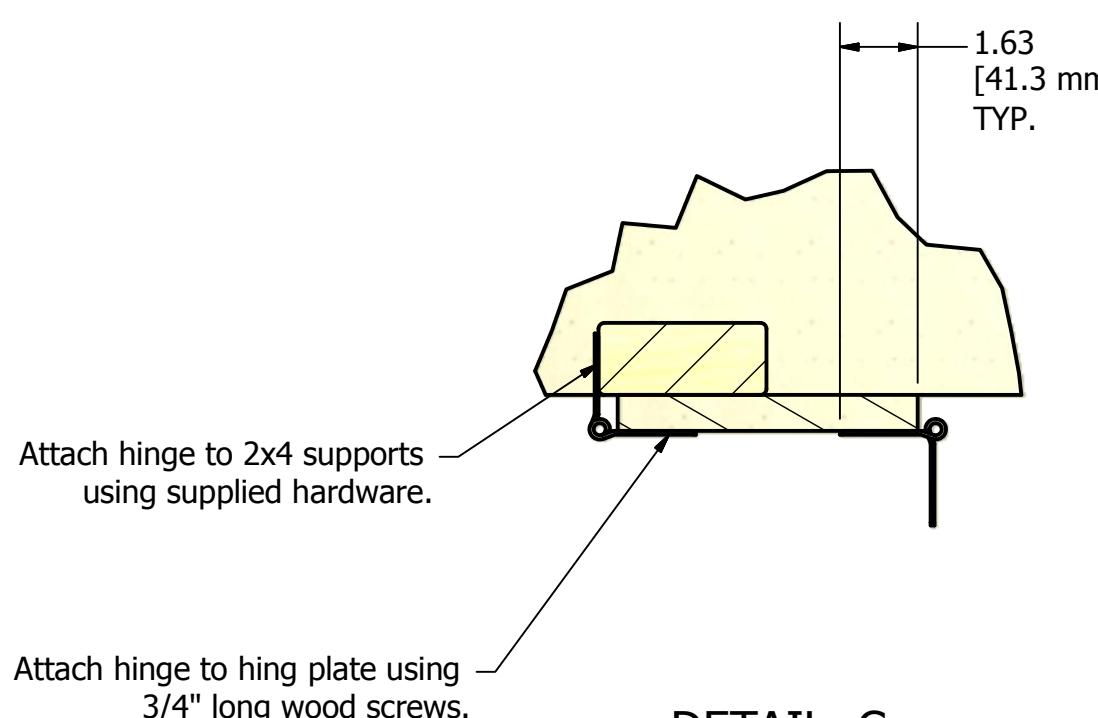


Notes:

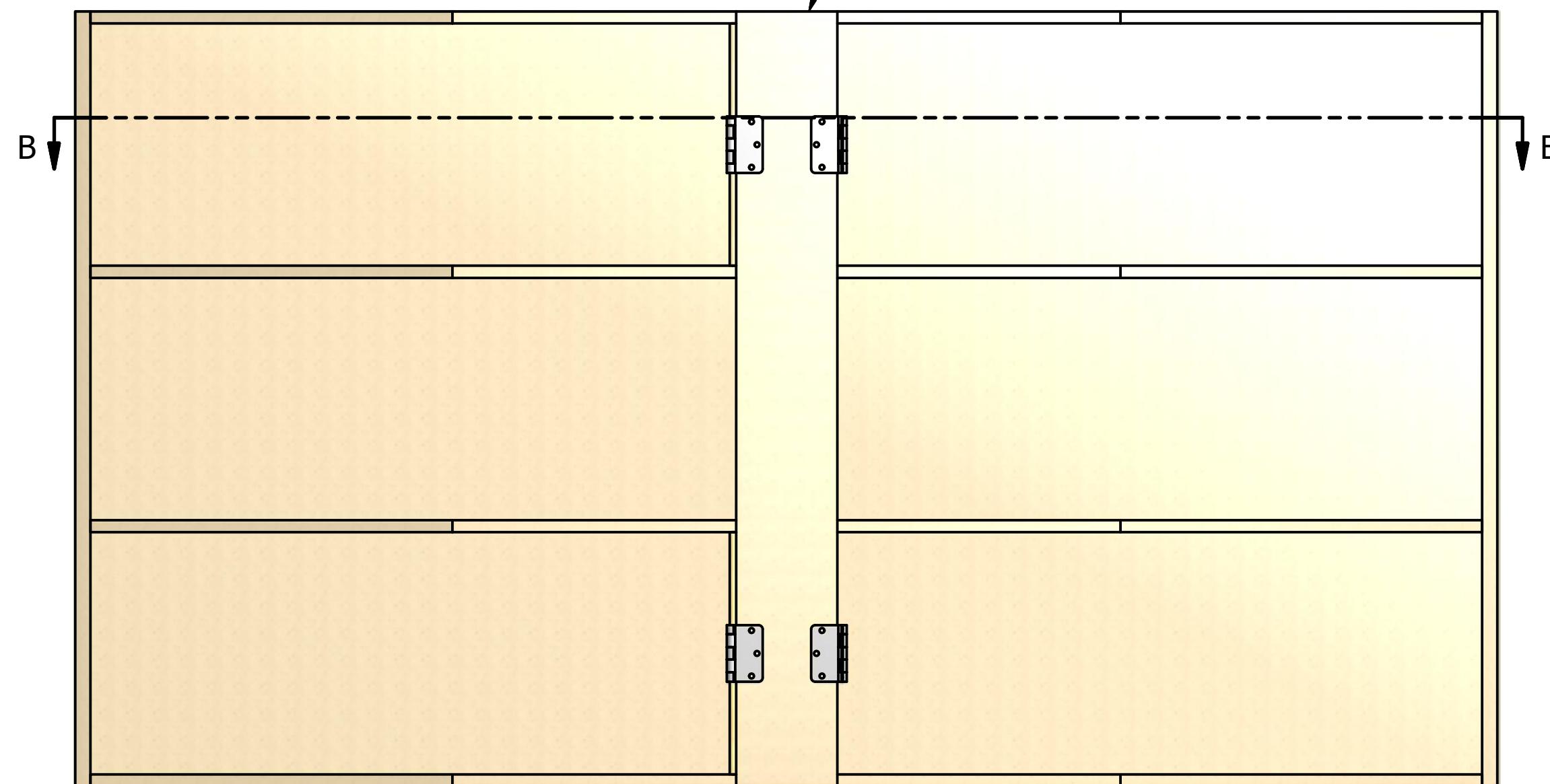
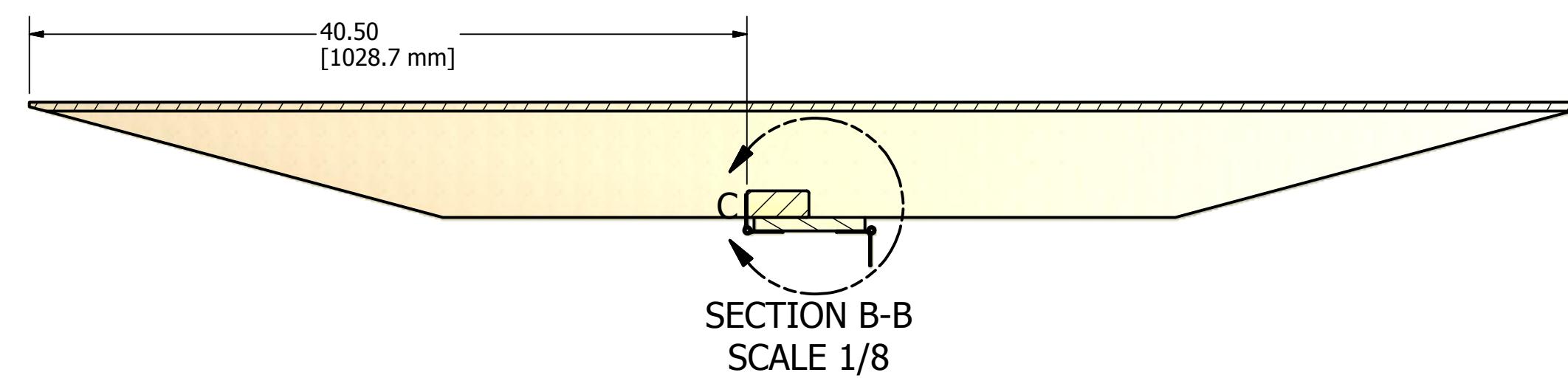
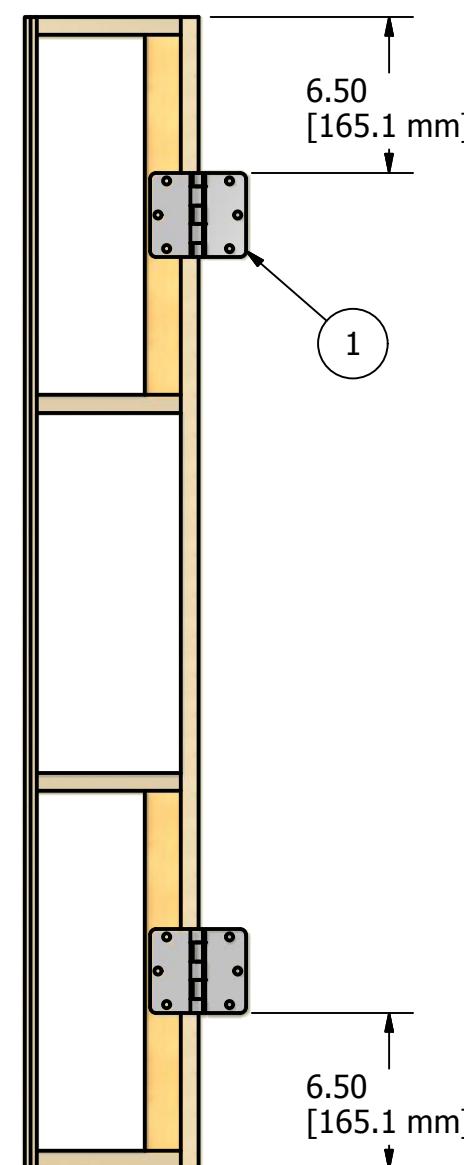
1. Use wood screws and glue to assemble parts.

DRAWN dfoster	12/20/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/-.1/32	Bridge, Team Element		
.00	+.01	SIZE		
.000	+.005	DWG NO		
ANGULAR	+.25 Deg.	SCALE		REV
				B
				SHEET 3 OF 9

Assembly Step 3

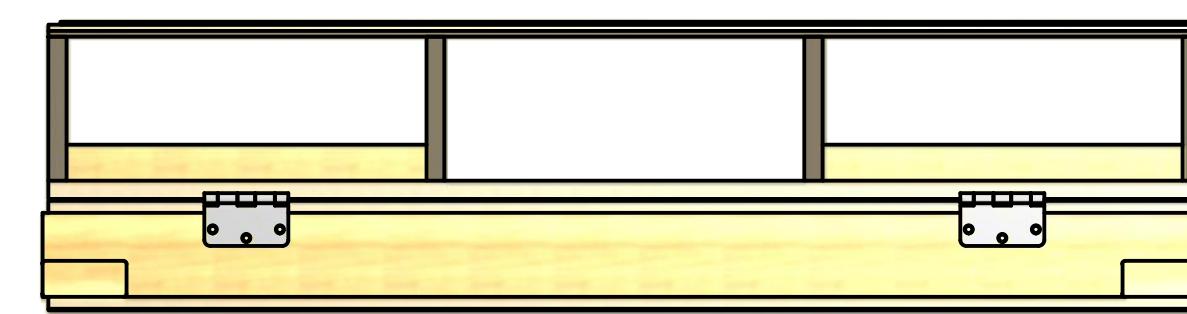
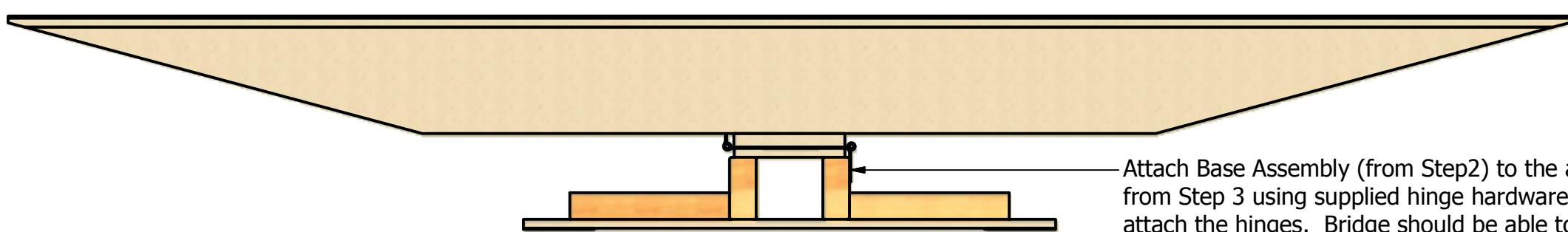


DETAIL C
SCALE 1 / 4

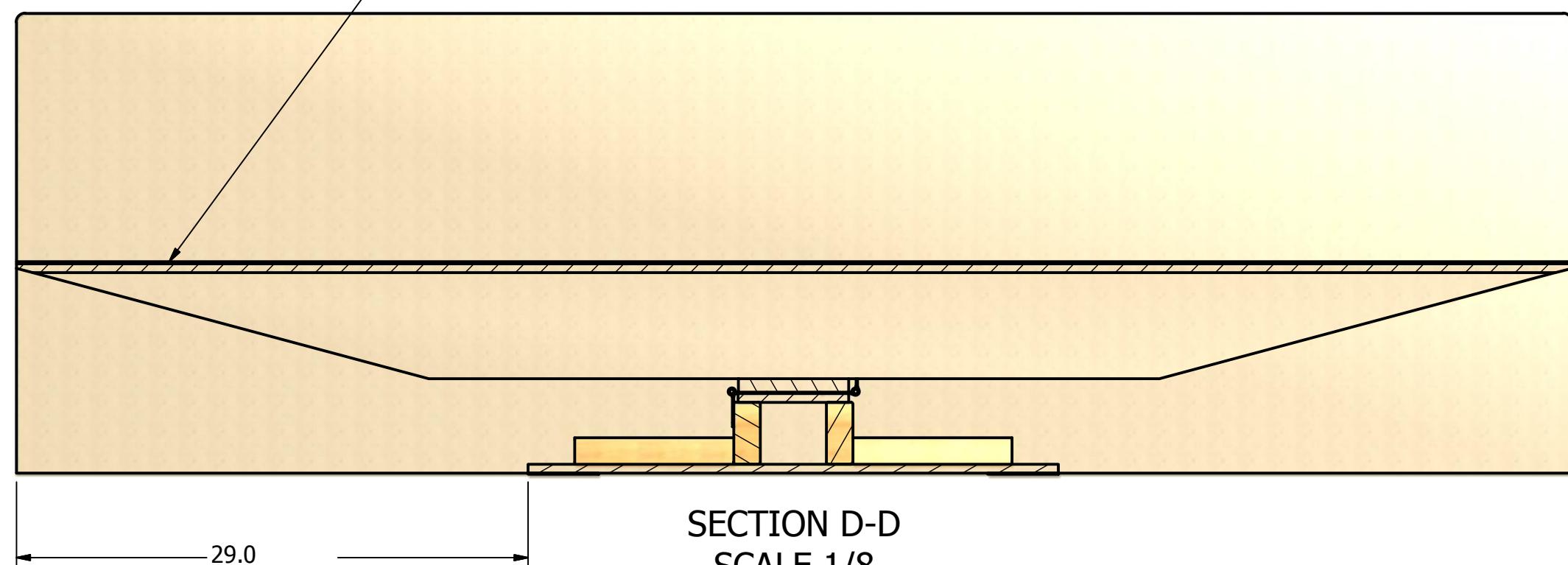
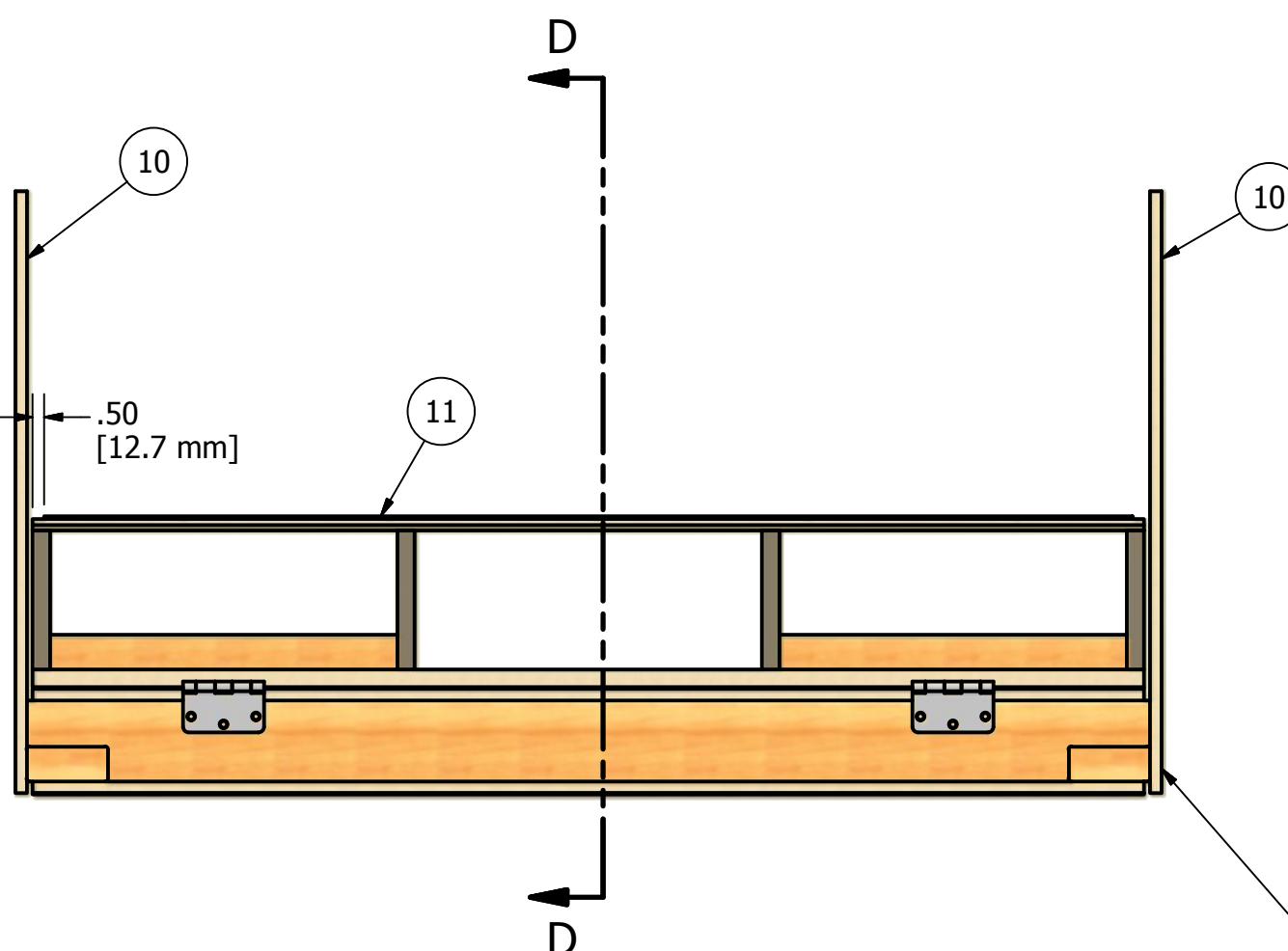


DRAWN dfoster	12/20/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907					
CHECKED							
UNLESS OTHERWISE SPECIFIED							
TOLERANCES: (INCHES)							
FRAC.	+/- 1/32	TITLE Bridge, Team Element					
.00	+/- .01						
.000	+/- .005	SIZE C	DWG NO TE-12004	REV B			
ANGULAR	+/- .25 Deg.	SCALE		SHEET 4 OF 9			

Assembly Step 4

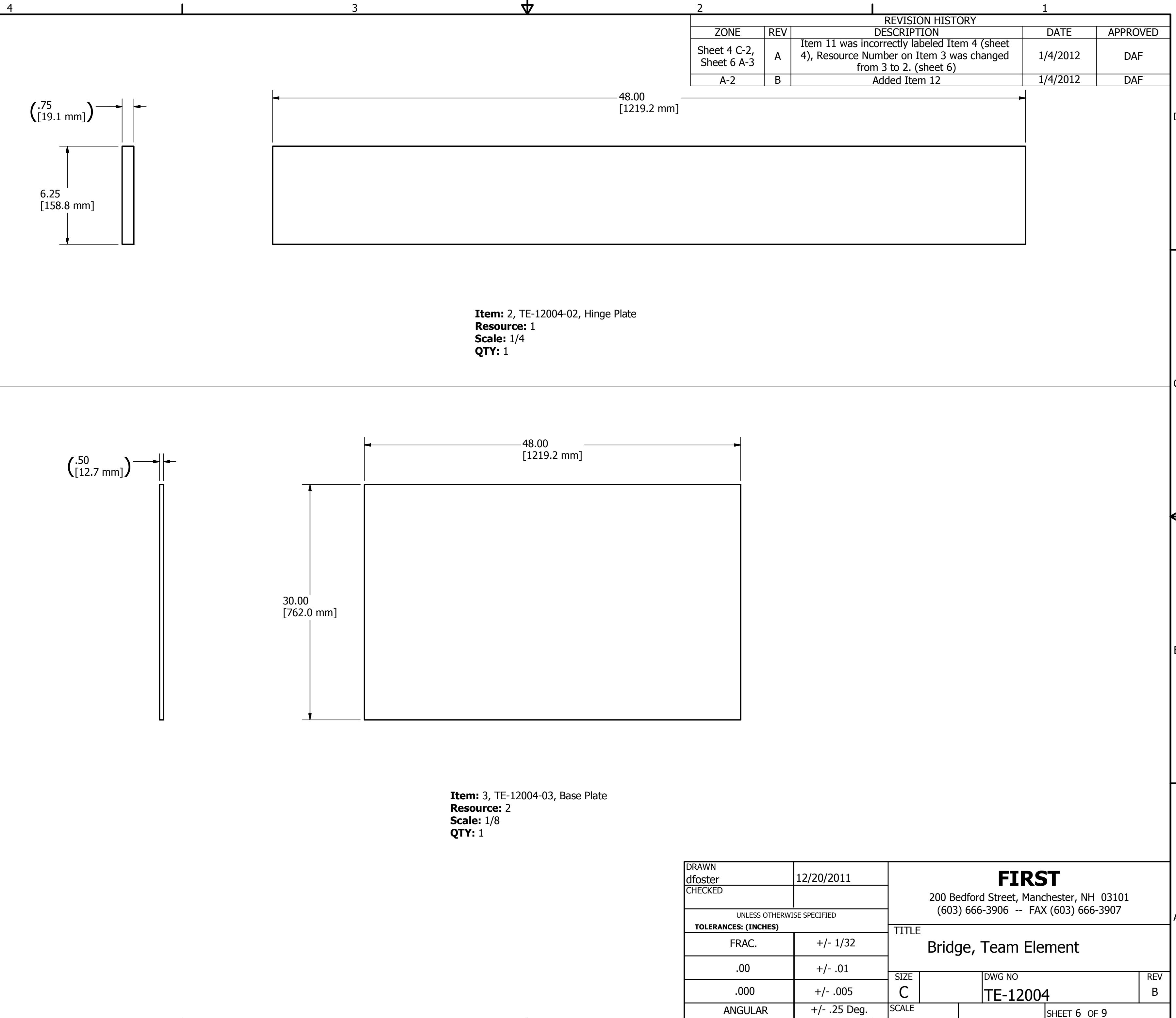


Assembly Step 5



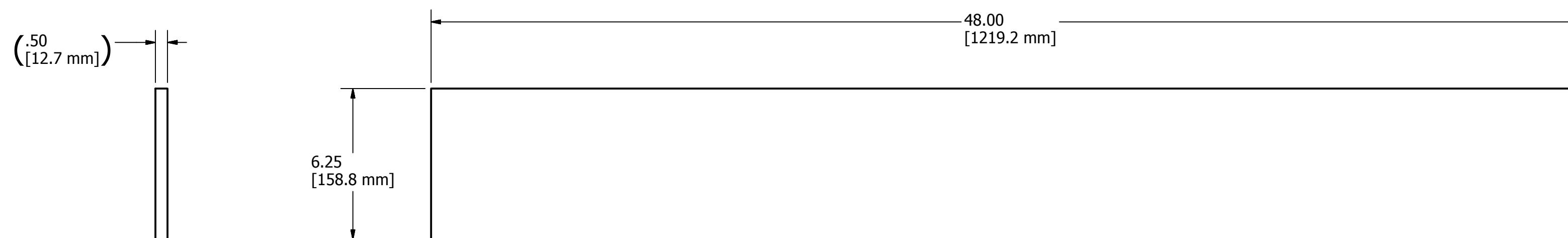
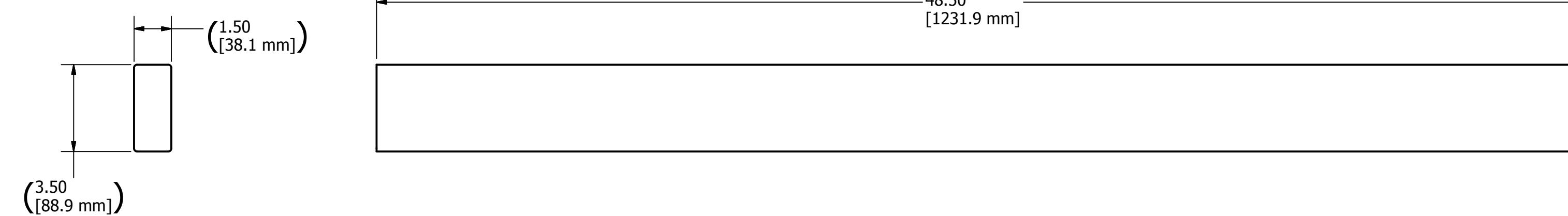
SECTION D-D
SCALE 1/8

DRAWN dfoster	12/20/2011	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
CHECKED				
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)				
FRAC.	+/- 1/32			
.00	+/- .01			
.000	+/- .005			
ANGULAR	+/- .25 Deg.	SCALE	DWG NO	REV
			TE-12004	B
SHEET 5 OF 9				



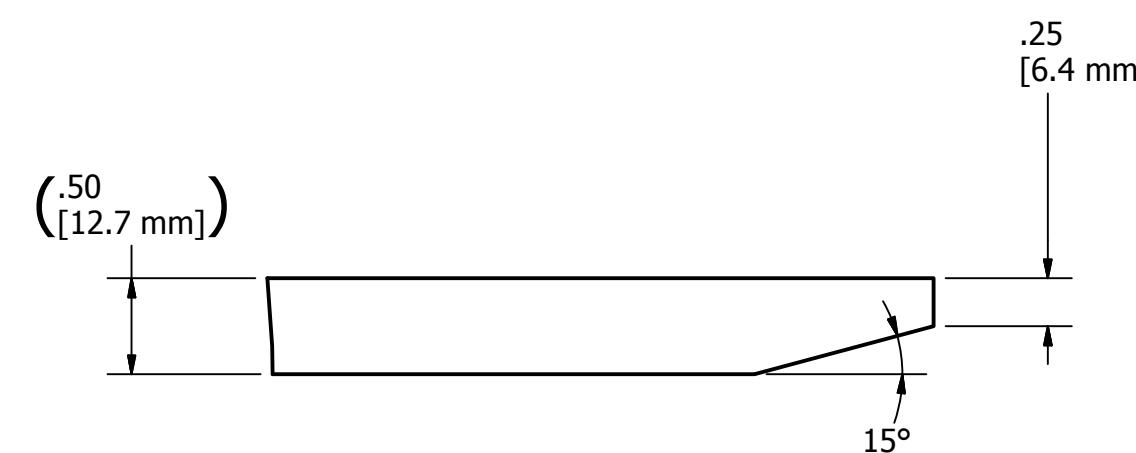
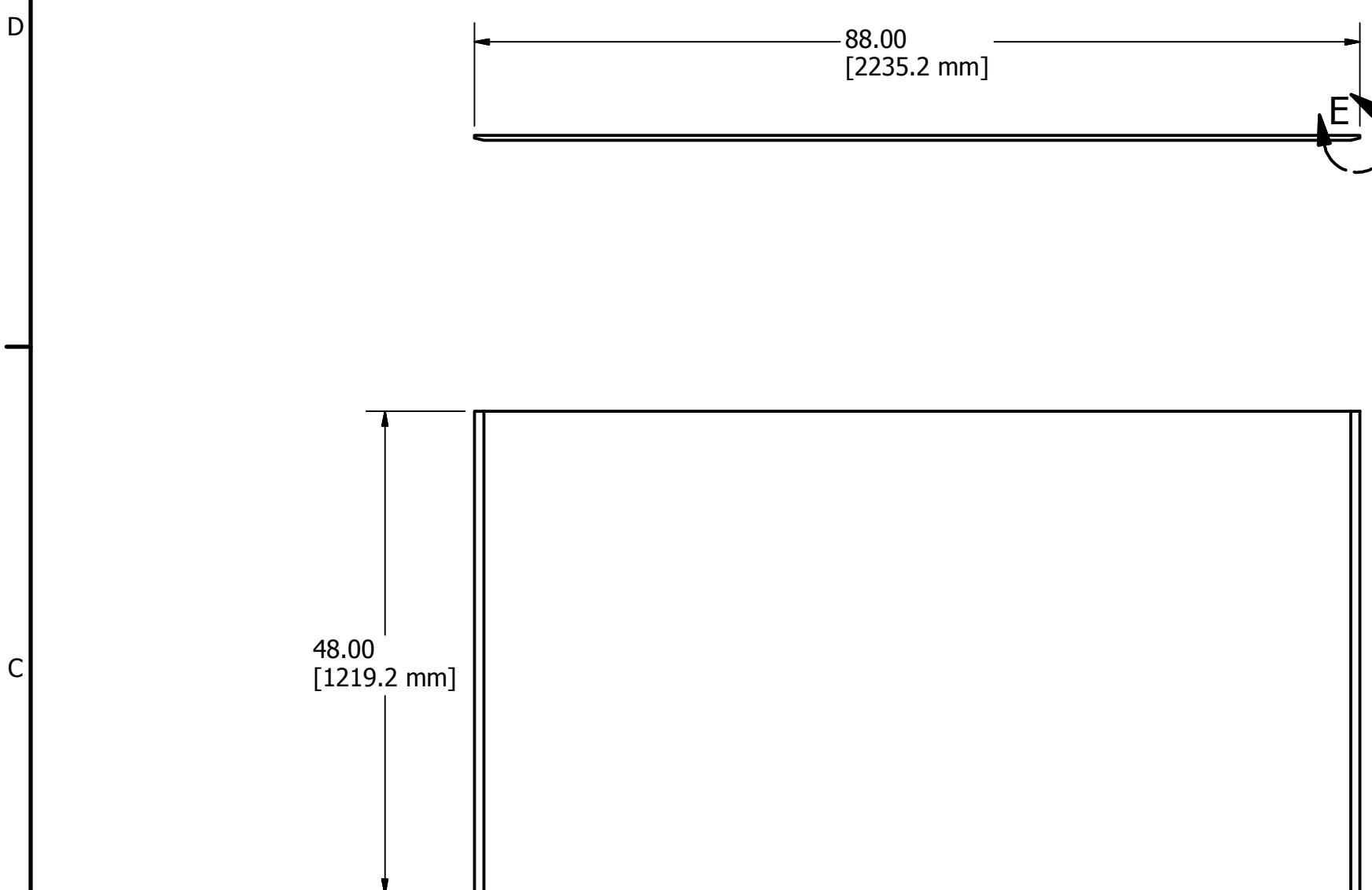
4	3	2	1
REVISED HISTORY			
ZONE	REV	DESCRIPTION	DATE

D-2	B	48.5 was 48	1/4/2012	DAF
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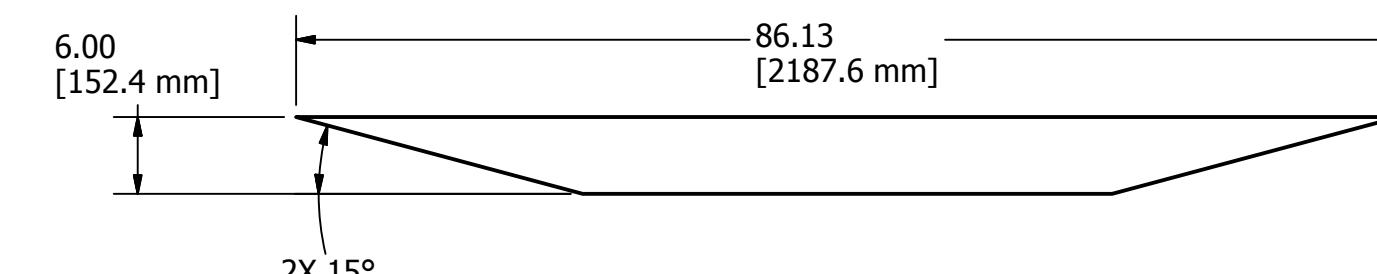
DRAWN dfoster	12/20/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/-.132	Bridge, Team Element		
.00	+.01	SIZE		
.000	+.005	DWG NO		
ANGULAR	+.25 Deg.	SCALE		REV
				B
				SHEET 7 OF 9

4 3 2 1

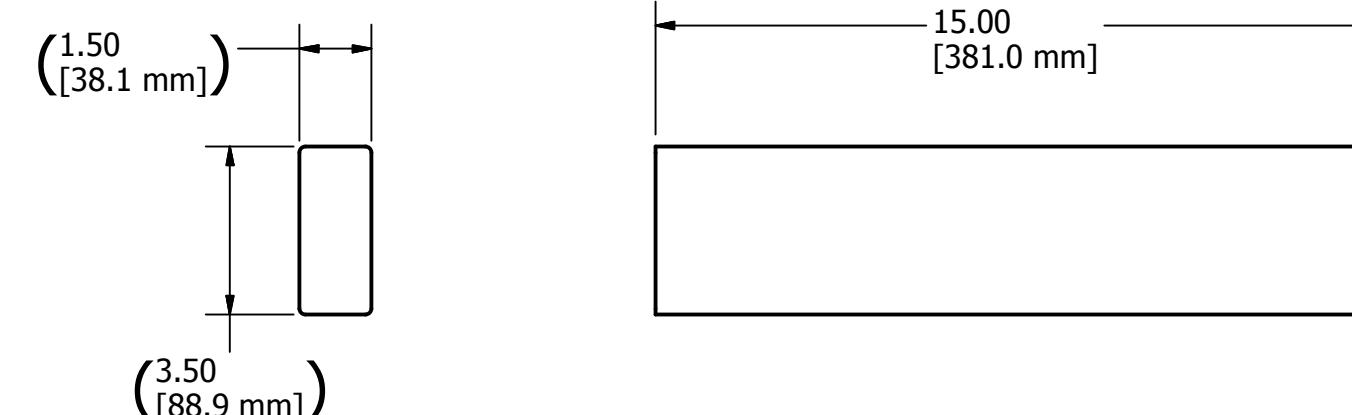


DETAIL E
SCALE 1 : 1
Typical Both Ends

Item: 6, TE-12004-06, Bridge Deck
Resource: 2
Scale: 1/15
QTY: 1



Item: 7, TE-12004-07, Support Rib
Resource: 1
Scale: 1/15
QTY: 4



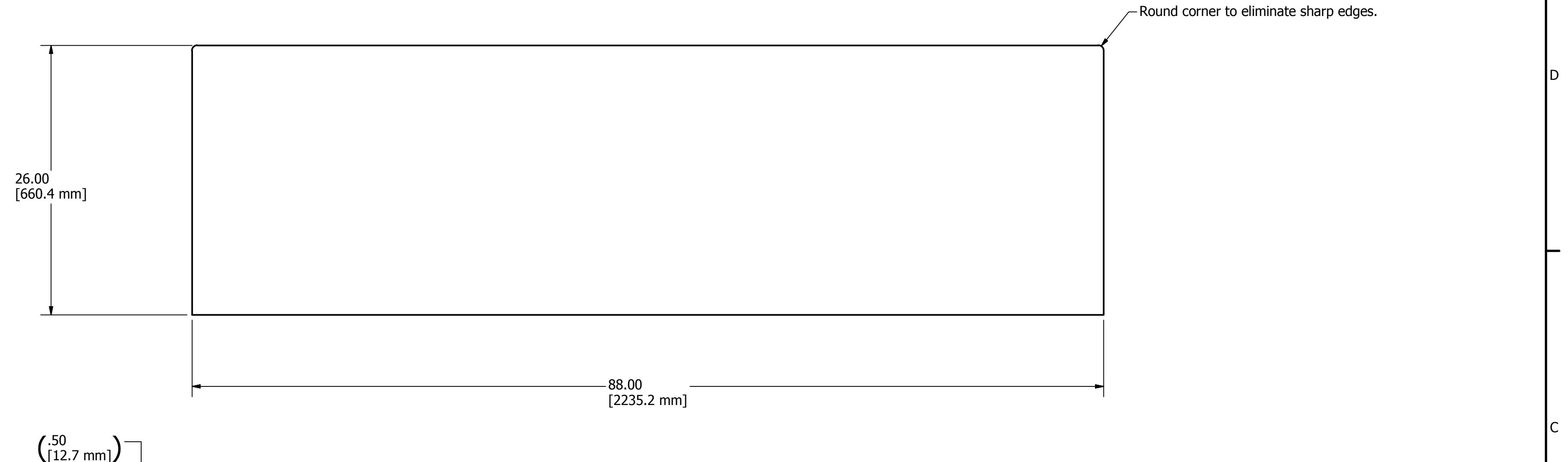
Item: 8, TE-12004-08, 2x4, Deck Mounting
Resource: 3
Scale: 1/4
QTY: 2

DRAWN dfoster	12/20/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/- 1/32	Bridge, Team Element		
.00	+/- .01	SIZE	DWG NO	REV
.000	+/- .005	C	TE-12004	B
ANGULAR	+/- .25 Deg.	SCALE		SHEET 8 OF 9

4 3 2 1

REVISION HISTORY

ZONE	REV	DESCRIPTION	DATE	APPROVED
A-3	B	Added Item 12 Detail	1/4/2012	DAF

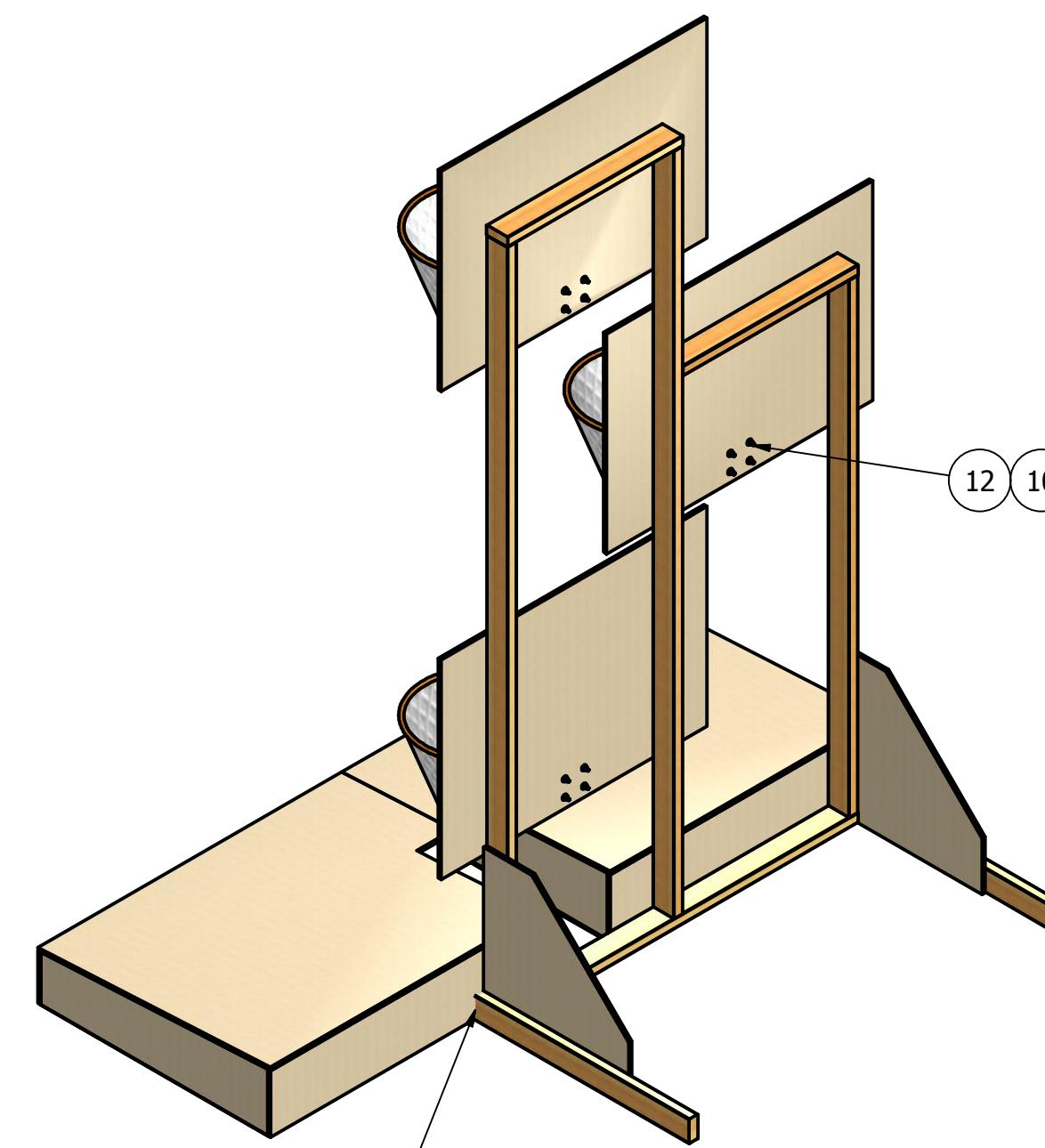
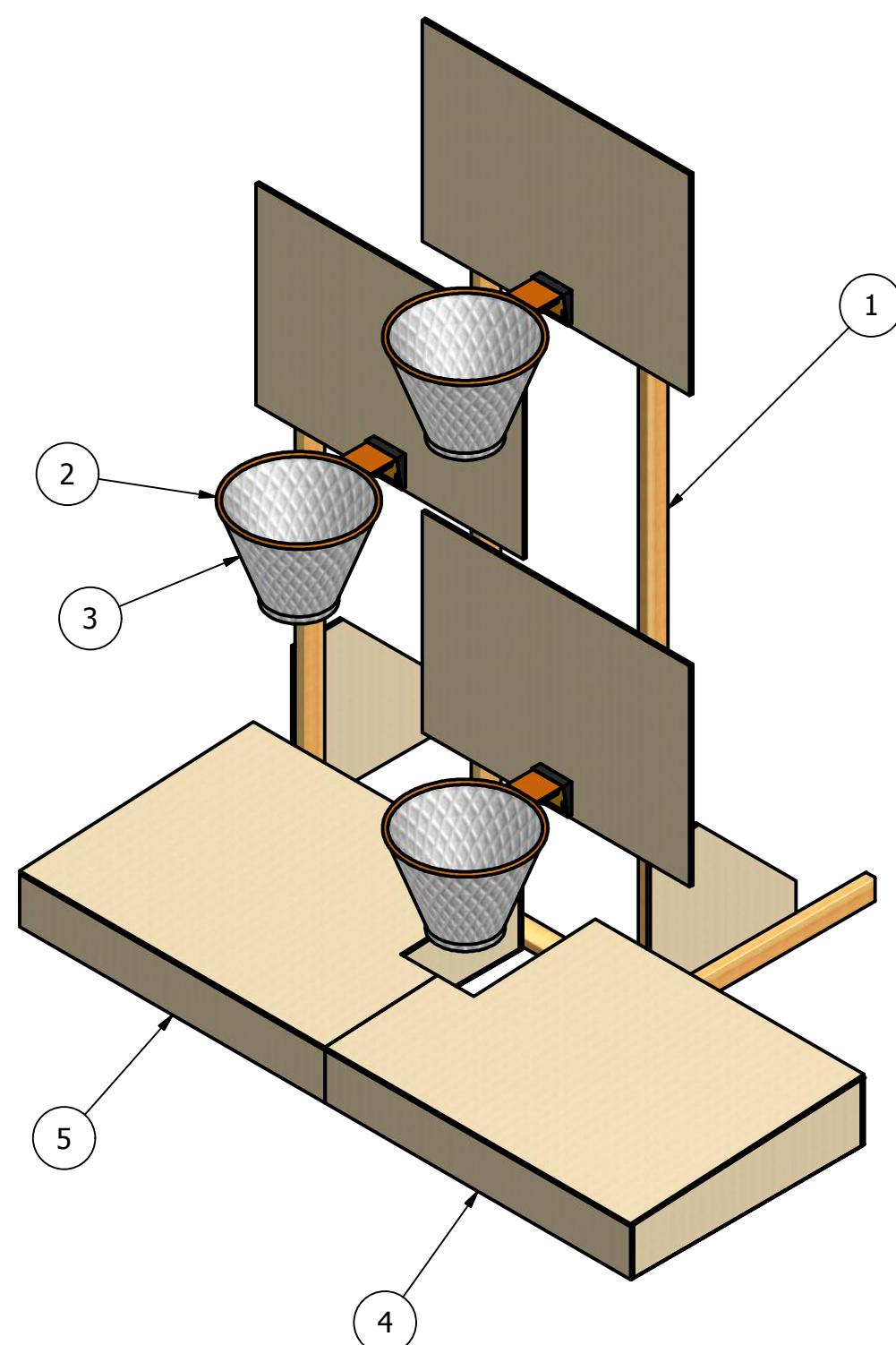


Item: 10, TE-12004-10, Pinch Guard
 Resource: 2
 Scale: 1/8
 QTY: 1



△ B Item: 12, TE-12004-012, Support, Pinch Guard
 Resource: 3
 Scale: 1/4
 QTY: 4

DRAWN dfoster	12/20/2011	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/- 1/32	Bridge, Team Element		
.00	+/- .01	SIZE		
.000	+/- .005	DWG NO		
ANGULAR	+/- .25 Deg.	SCALE		REV
				B
				SHEET 9 OF 9



Typical All Backboards

Notes:

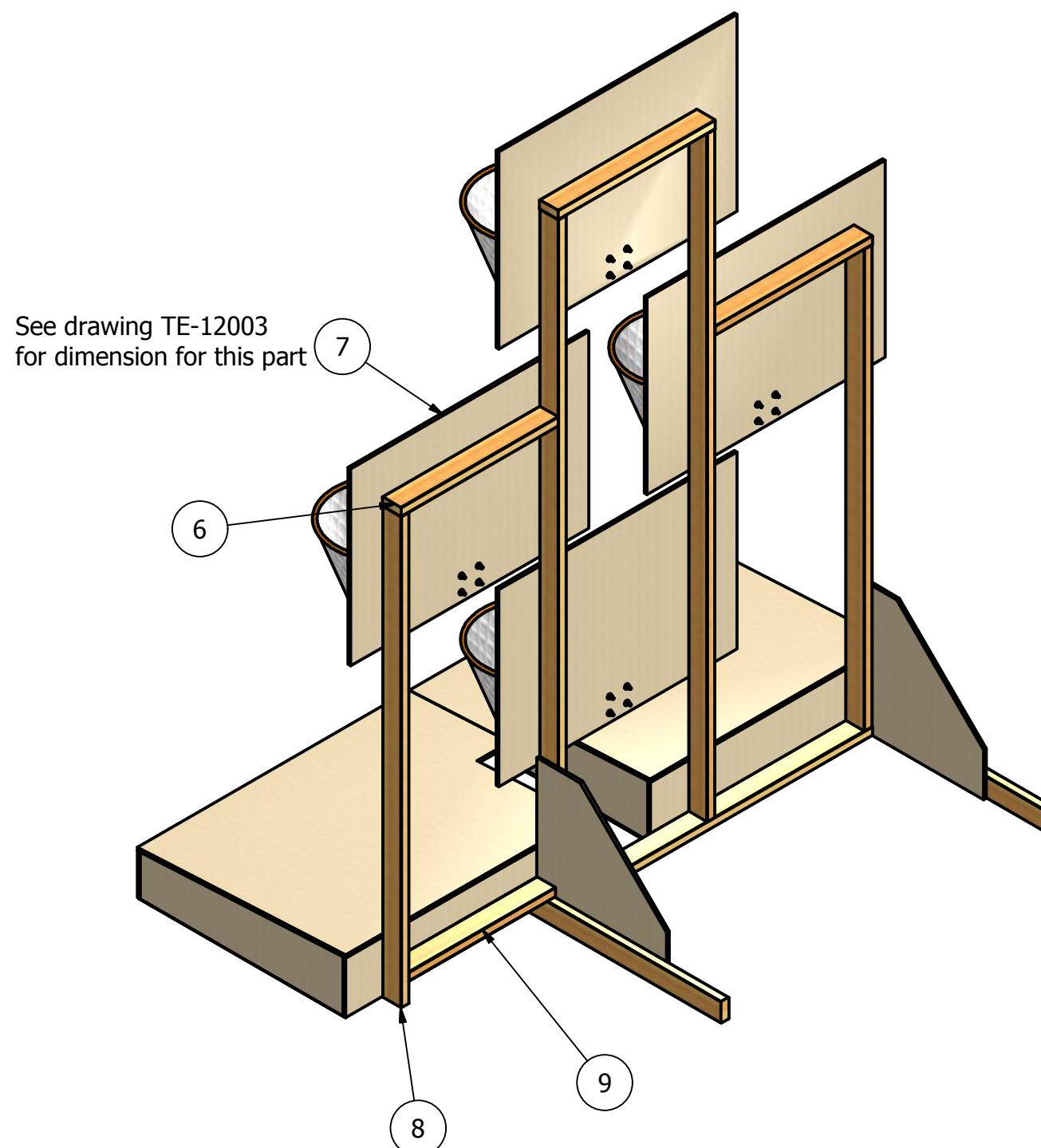
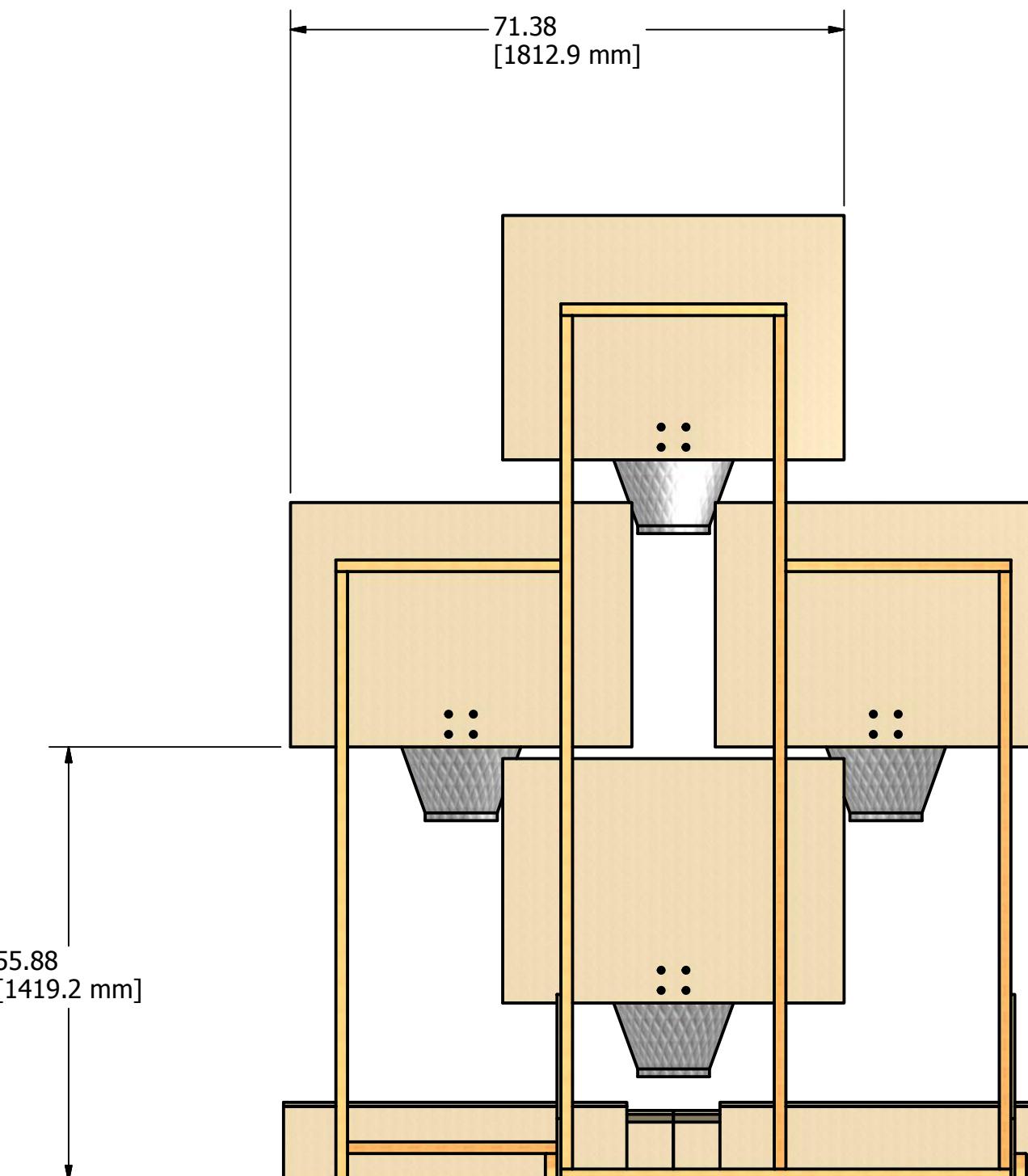
1. Items 6, 7, 8 and 9 are only used for the four hoop version. (see sheet 2)
2. Items 4 and 5 should be centered underneath the central baskets.

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TE-12003	Backboard Assembly
2	4	GE-12013	Basketball Hoop
3	4	GE-12014	Basketball Net
4	1	GE-12103	Fender, Assembly
5	1	GE-12103_MIR	Fender, Assembly
6	1	TE-12005-01	Horizontal Support 1
7	1	TE-12003-02	Backboard
8	1	TE-12005-02	Vertical Support
9	1	TE-12005-03	Horizontal Support 2
10	32	HW-00003	Washer, Flat 1/4"
11	16	HW-00002	Nut, Lock 1/4-20
12	16	HHCS 1/4-20 x 1" Zinc Plate	

DRAWN dfoster	1/3/2012	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907			
CHECKED					
UNLESS OTHERWISE SPECIFIED					
TOLERANCES: (INCHES)					
FRAC.	+/- 1/32	TITLE Hoop Station Assembly			
.00	+/- .01				
.000	+/- .005				
ANGULAR	+/- .25 Deg.	SIZE C	DWG NO TE-12005		
SCALE		REV			
SHEET 1 OF 3					

4 3 2 1

D



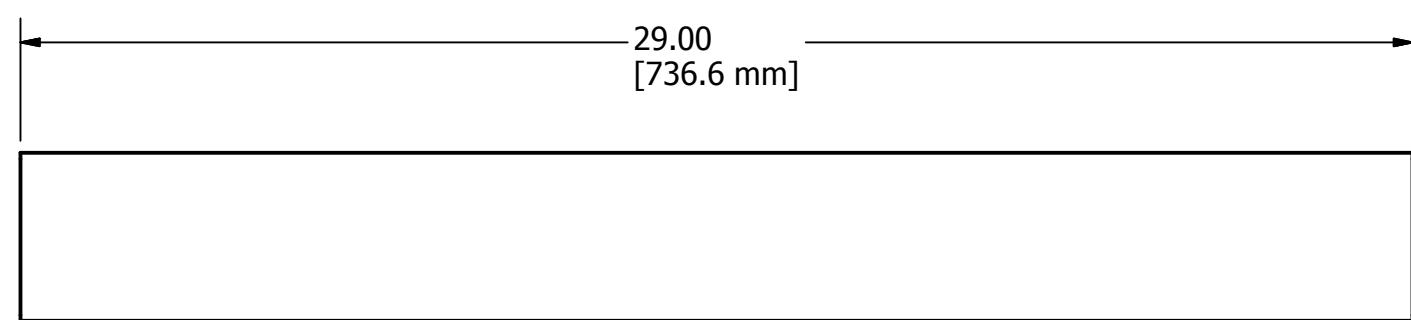
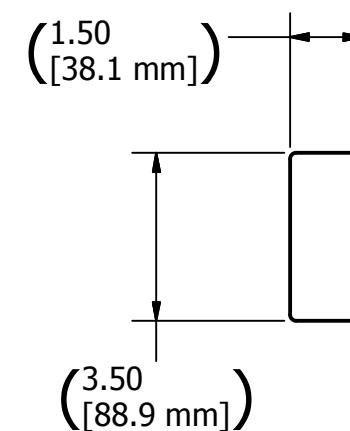
Four Hoop Version

Resources		
Number	Description	Qty.
1	2"x4"x8' Pine Lumber	2

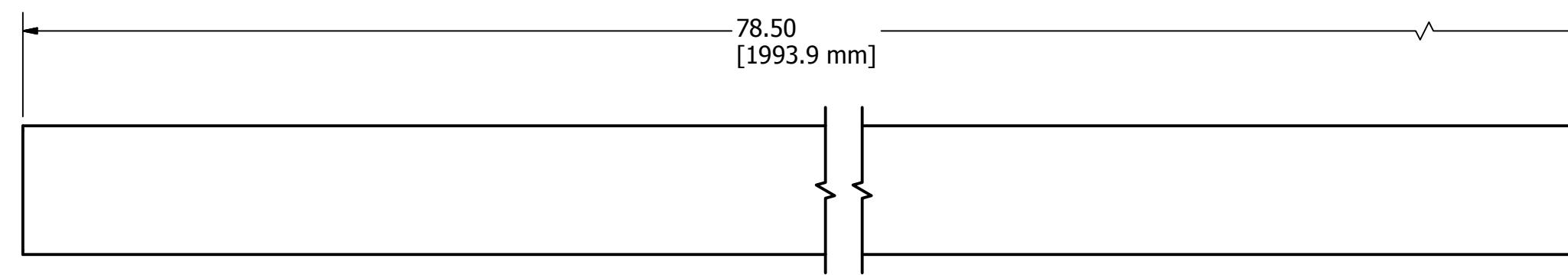
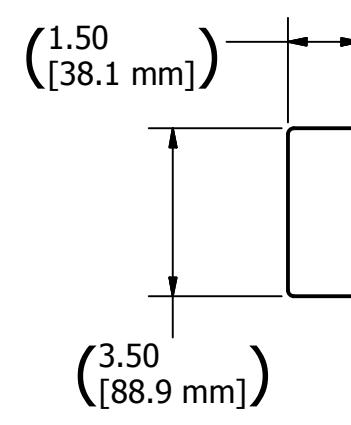
Notes:

1. Attach Items 6, 7, 8 and 9 as necessary using wood screws.

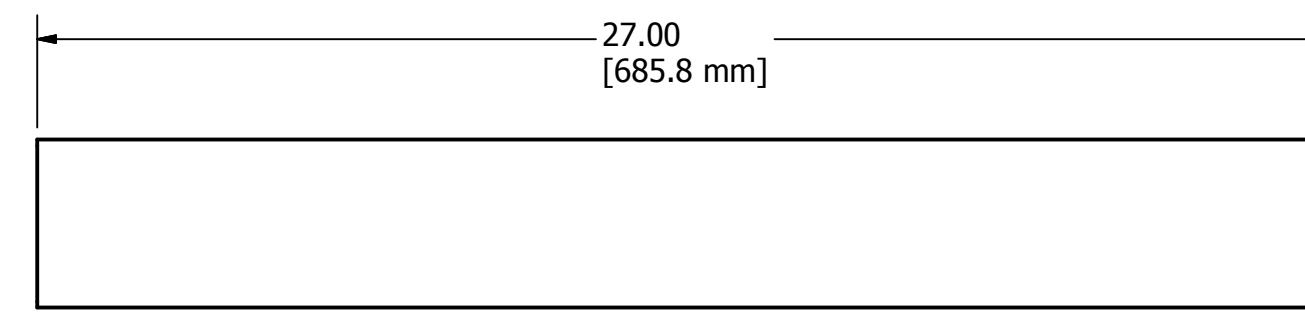
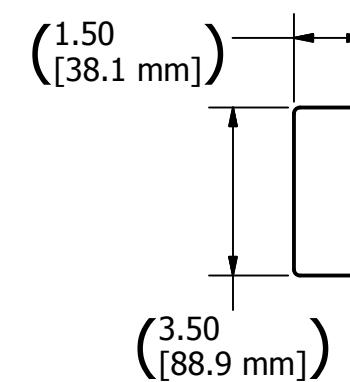
DRAWN dfoster	1/3/2012	FIRST 200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907	
CHECKED			
UNLESS OTHERWISE SPECIFIED			
TOLERANCES: (INCHES)			
FRAC.	+/- 1/32		
.00	+/- .01		
.000	+/- .005		
ANGULAR	+/- .25 Deg.		
SCALE		DWG NO	
		TE-12005	
		REV	
		SHEET 2 OF 3	



Item: 1, TE-12005-01, Horizontal Support 1
Resource: 1
Scale: 1/4
QTY: 1



Item: 2, TE-12005-02, Vertical Support
Resource: 1
Scale: 1/4
QTY: 1



Item: 3, TE-12005-03, Horizontal Support 2
Resource: 1
Scale: 1/4
QTY: 1

DRAWN dfoster	1/3/2012	FIRST		
CHECKED		200 Bedford Street, Manchester, NH 03101 (603) 666-3906 -- FAX (603) 666-3907		
UNLESS OTHERWISE SPECIFIED				
TOLERANCES: (INCHES)		TITLE		
FRAC.	+/- 1/32	Hoop Station Assembly		
.00	+/- .01	SIZE		
.000	+/- .005	DWG NO		
ANGULAR	+/- .25 Deg.	SCALE	REV	
			TE-12005	
			SHEET 3 OF 3	