

Newport Tall Case Clock – Notes

I have spent considerable time in constructing the 3D model and drawings for the clock. A minimum of 100 hours. My only request is that these plans not be sold for profit. If they can help SAPFM members build this clock or one similar, then this is my reward. Thank you.

- The carvings for the shell and finials have not been modeled, too time consuming on my part. JPEG pictures have been provided to aid with the carving. There are 24 reeds on the finials.
- As noted in the drawings the frame dial molded edge has not been modeled, an oversight on my part. It is a 1/8" roundover.
- The waist door requires offset hinges as noted below. It is important that the lip on the hinge side of the door be 1/8". Also by raising the lip .020" above the door frame when installing the hinges will prevent the lip from binding or even cracking. I learned this by experimenting.

Hardware

Purchased from Ball and Ball www.ballandball.com
Door waist Hinge H18-069 1 5/8" with 1/8" offset
Door waist Lock TCB-011 Left Hand
Waist Lock Escutcheons L101-056
Hood Lock TCB-009 Left Hand
Hood Escutcheons L95-046

Glass

Bendheim Glass Company www.bendheim.com
Light Restoration Glass

Clock Movement and Dial

Green Lakes Clock Company www.greenlakeclock.com
Mike Siemsen 651-257-9166

IMPORTANT!! The construction of the clock was based on the movement and dial I purchased from Green Lakes Clock Company. Mike's website has dimensions for the movement and dial. If you use a different sized dial you will have to revise the dimensions for the hood. Mike can work with you on this.

Reference:

Fine Woodworking Issue No. 55 Nov/Dec 1985 Page 75-81
Article showing construction

John Townsend Newport Cabinet Maker, Morrison Heckscher
P. 120-123
Excellent details of clock shows carving detail for shell and finials

Master Craftsman of Newport: The Townsends and Goddards
P. 137-138 and Plate 12

Furniture Treasury Volume 3, Wallace Nutting
P. 462-463

The New Fine Points of Furniture, Albert Sack
P. 135

Files

Included in this package are 1 PDF, 2 SAT files.

Thanks to Andrew Rappaport he combined all the PDF, JPG, and Word doc files into one PDF file. This file contains 14 drawings, 2 pictures, and 1 set of instructions.

In order to view the SAT files will need a viewer. Go to the following web site to download the free viewer.

1. www.hoops3d.com

Click on Downloads (upper right of page). Then click on 3D Part Viewer on left side of page. You will have to register to download. Select Hoops 3D Part Viewer for ACIS, 2nd on list. This viewer is for the SAT files. You will be able to rotate, zoom, and pan the 3d SAT files provide on screen. This is for your reference only.

2. The PDF files are for printing at a printing service such as Kinkos. The charge \$3 per linear foot. The files come in the following sizes in inches:

Ansi A 8 ½ X 11

Ansi B 11 X 17

Ansi C 17 X 22

Ansi D 22 X 34

Ansi E 34 X 44

The letter sizes are in the title block on each print. The main prints of the Pedestal, Waist, and Hood are E sizes and should be printed to full E scale. These are drawn in ½ scale. You can then scale the prints. If you reduce the size of the prints, you will not be able to scale them directly off the print. The exploded view prints can be printed on a home printer using letter size paper. This should be sufficient.

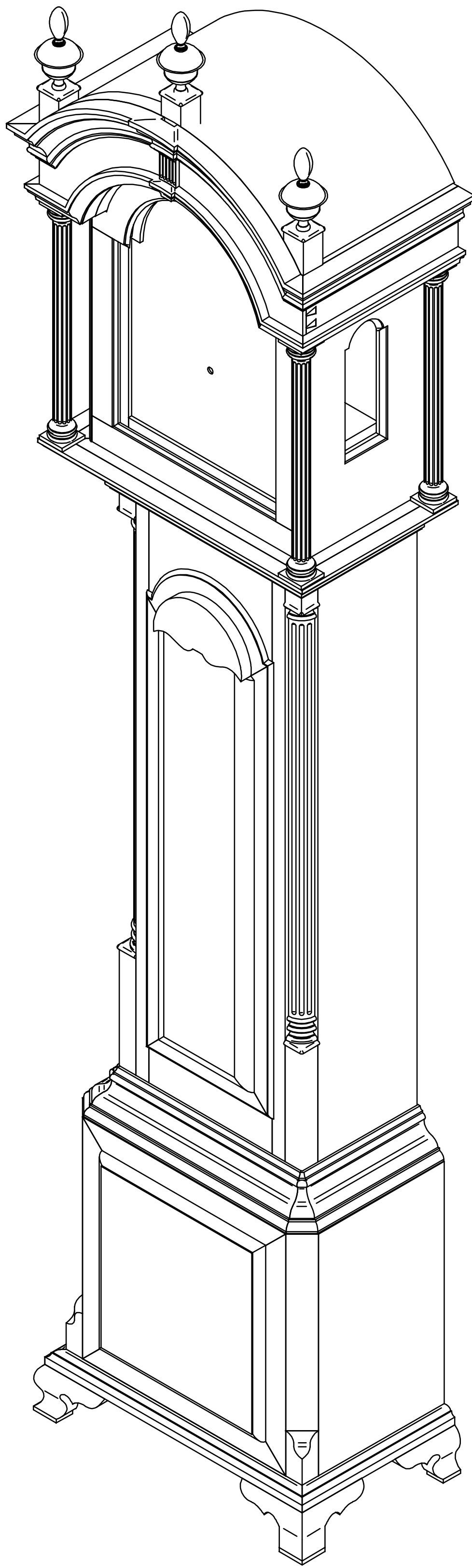
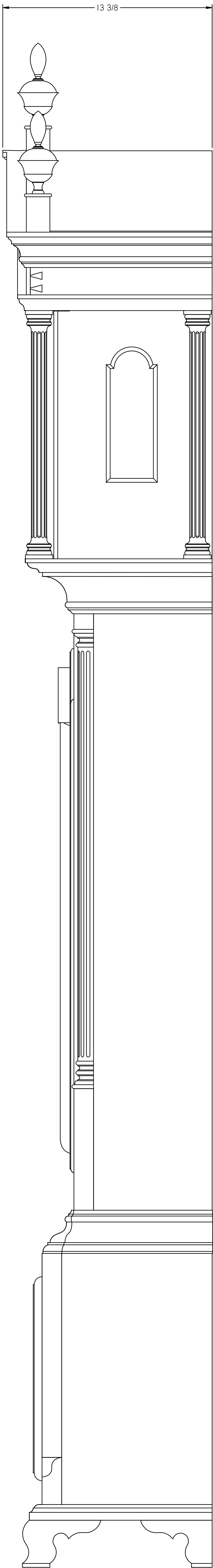
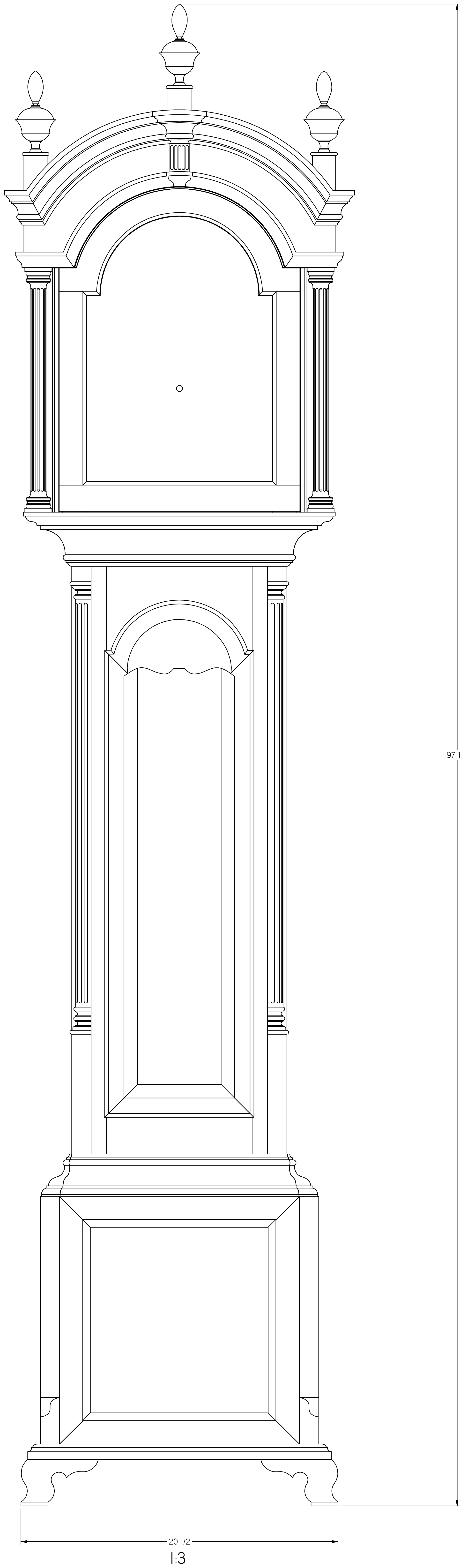
3. JPEG files are of the shell and finials. It shows the carving detail.

4. List of Pages in the PDF file:

Page 1	Instructions/References/Hardware	
Page 2	continuation of instructions	
Page 3	continuation of instructions	
Page 4	Full Clock Drawing	Size E
Page 5	Pedestal Drawing	Size E
Page 6	Pedestal Exploded View	Size B
Page 7	Waist Drawing	Size E
Page 8	Waist Door Exploded	Size B
Page 9	Waist Exploded	Size C
Page 10	Hood Drawing	Size E
Page 11	Hood Exploded View	Size C
Page 12	Hood Door	Size D
Page 13	Hood Side	Size B
Page 14	Dial Frame	Size C
Page 15	Blocking	Size D

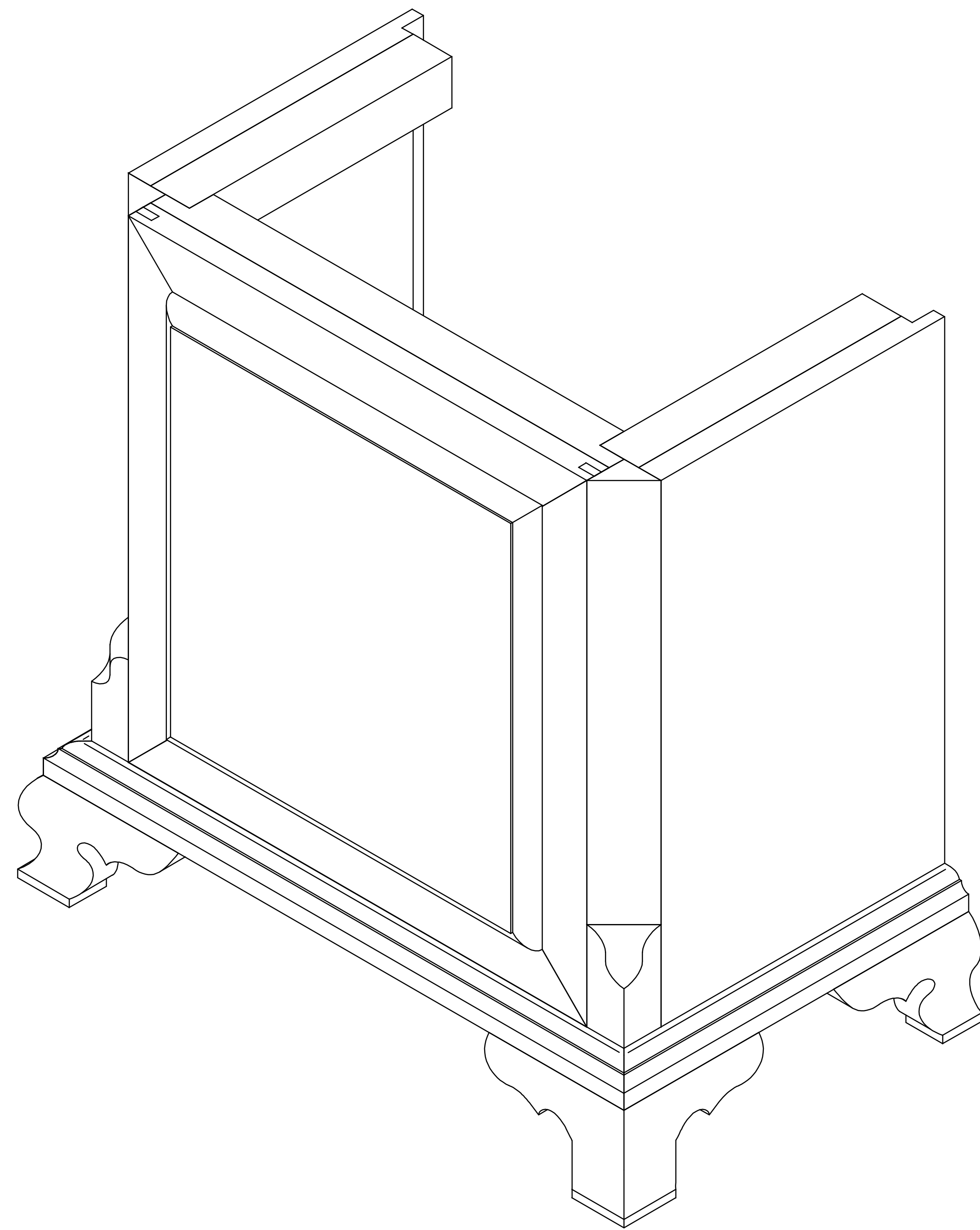
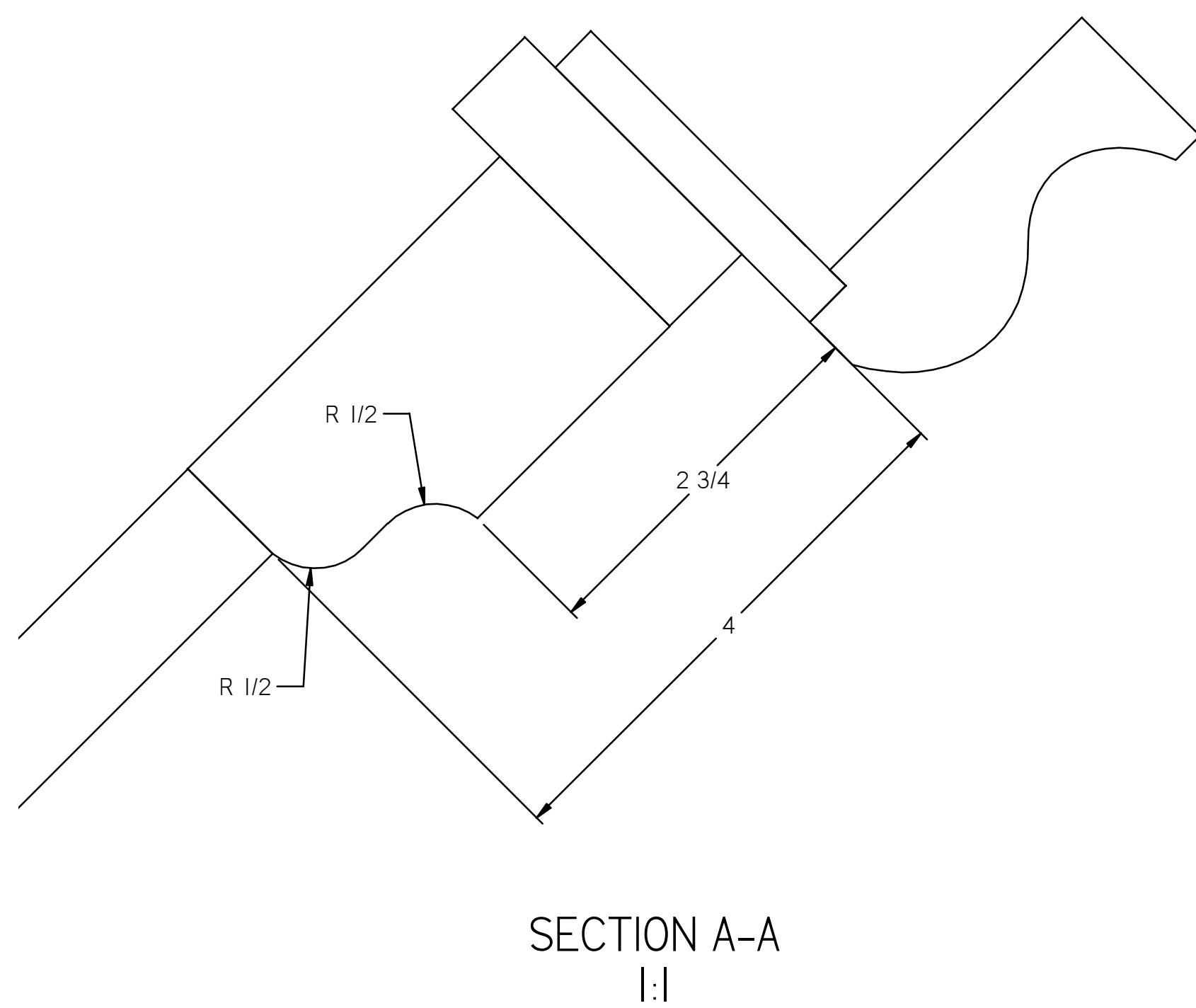
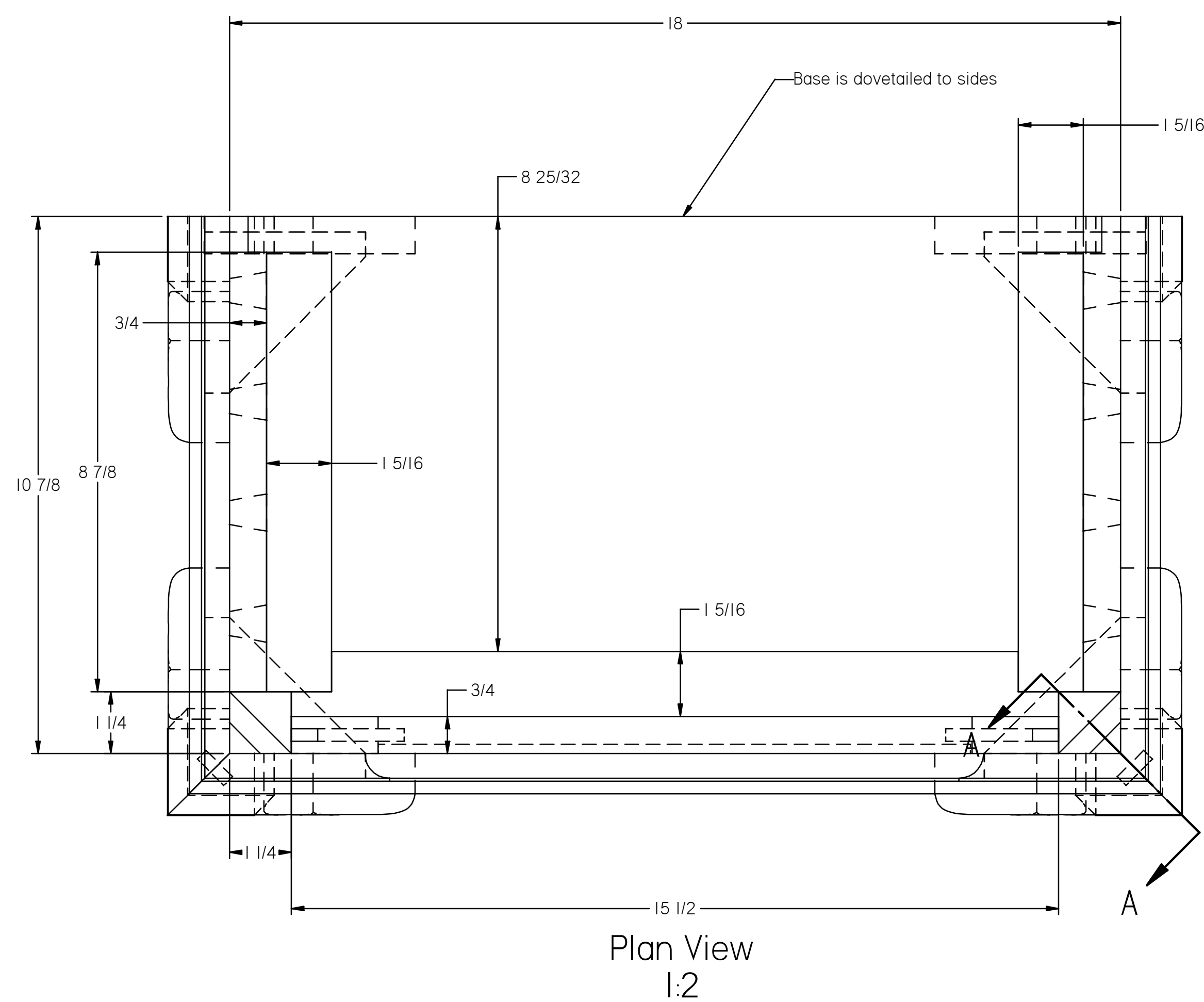
Page 16	Back Drawing	Size A
Page 17	Shell Pattern	Size A
Page 18	Finial Picture	Size A
Page 19	Shell Picture	Size A

If you need any further information contact me at edstuckey@comcast.net
Ed Stuckey

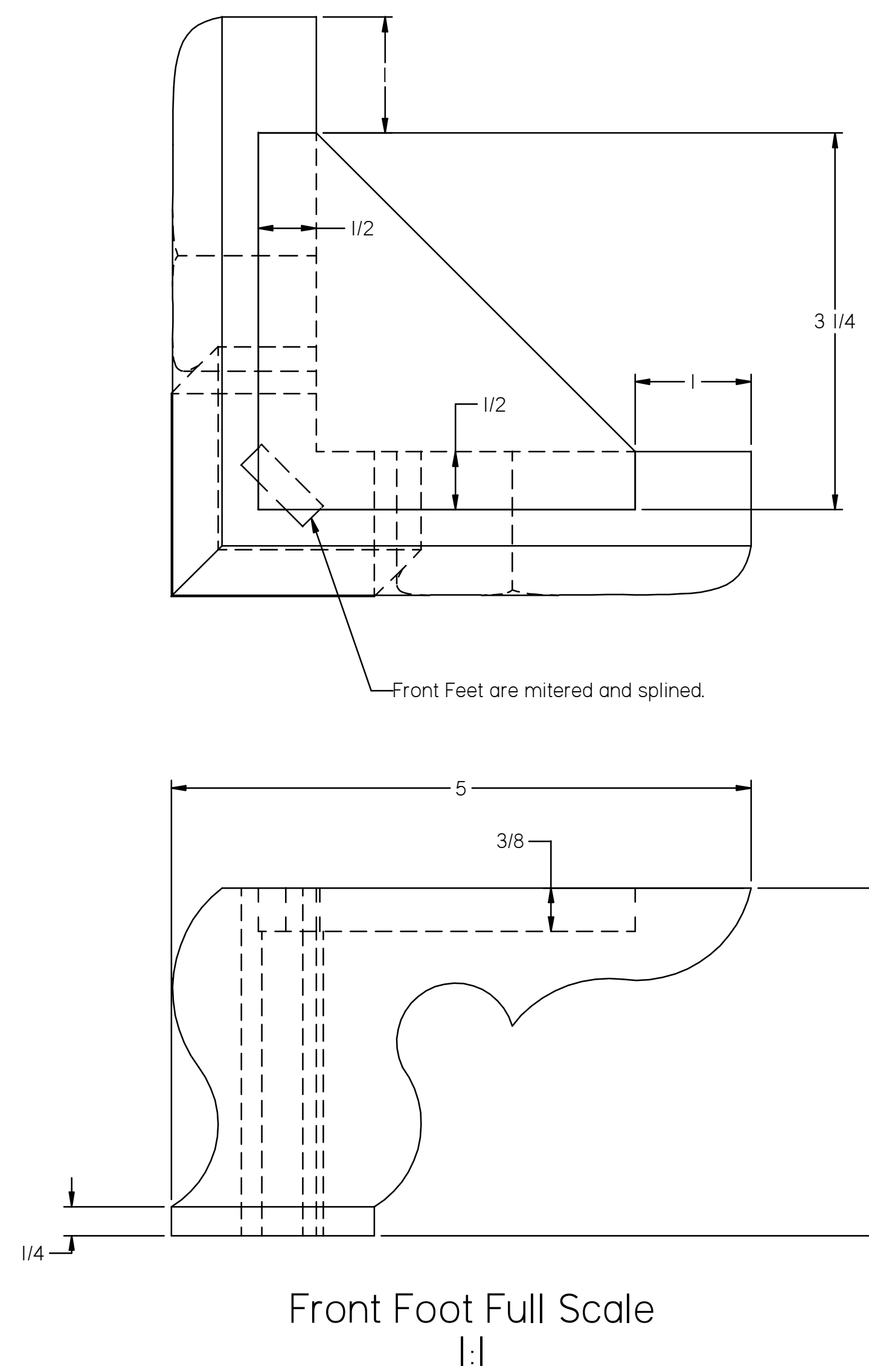
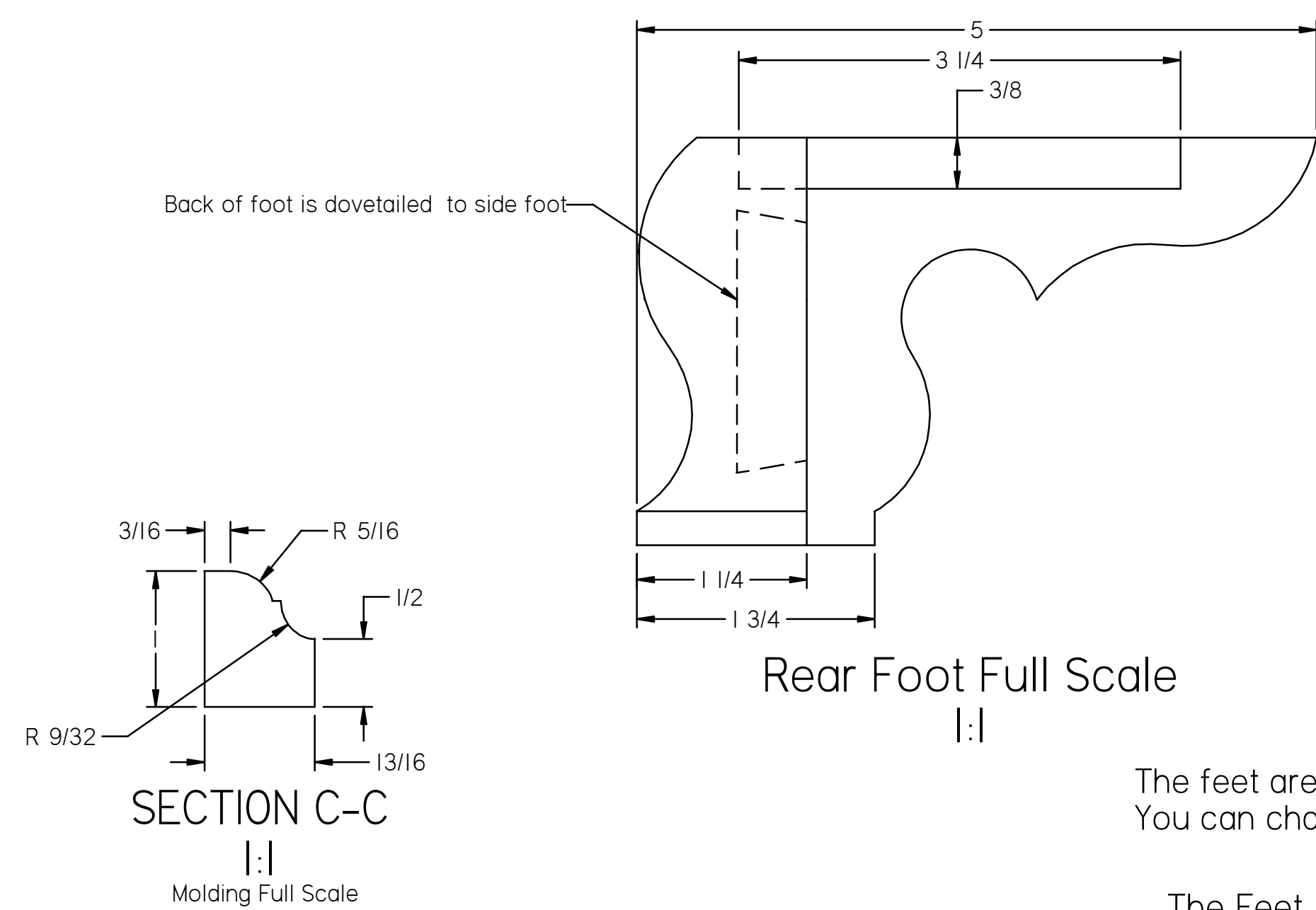
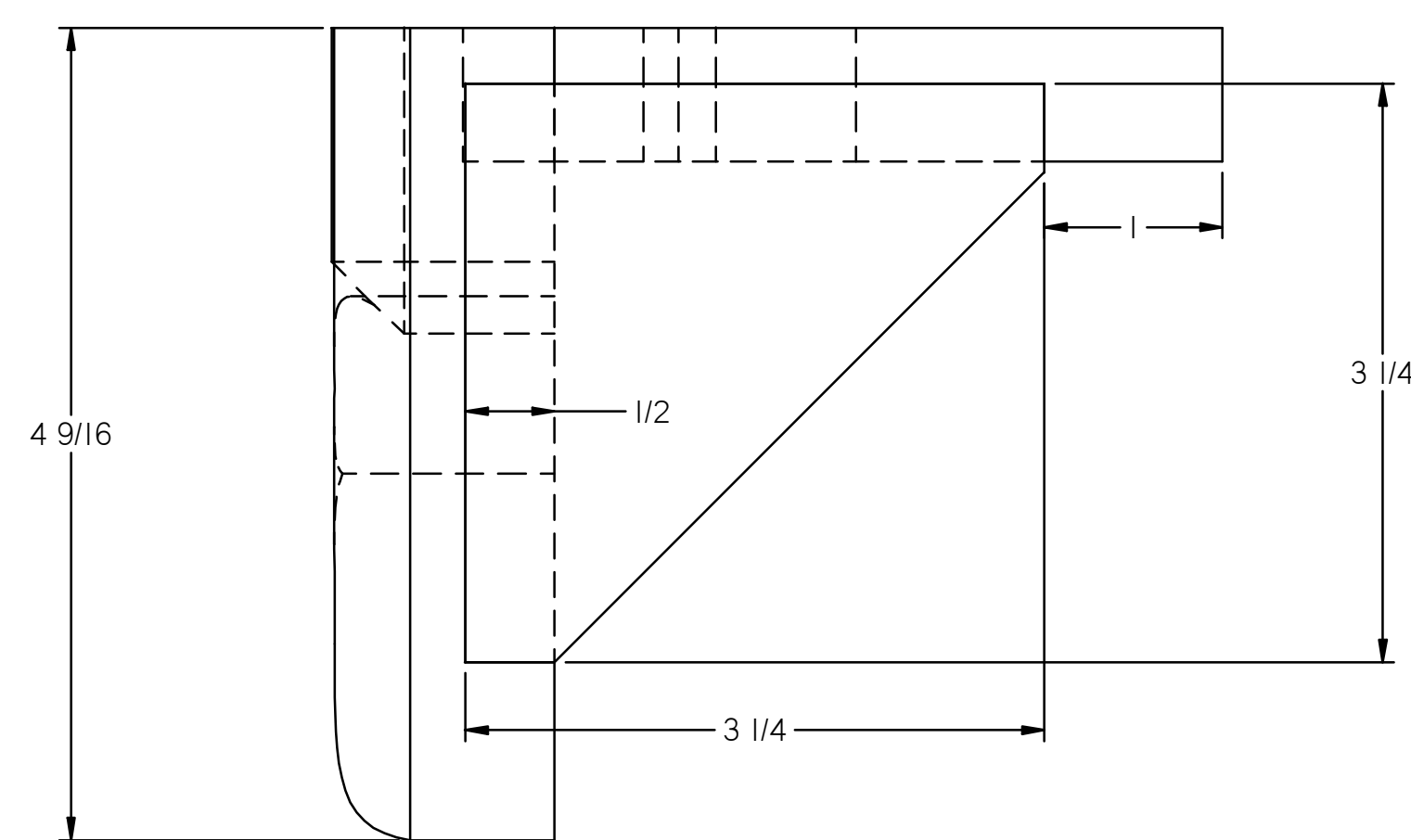
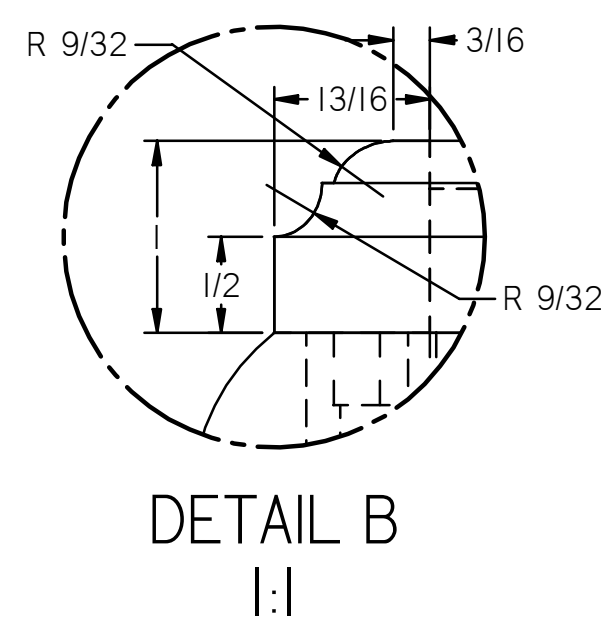
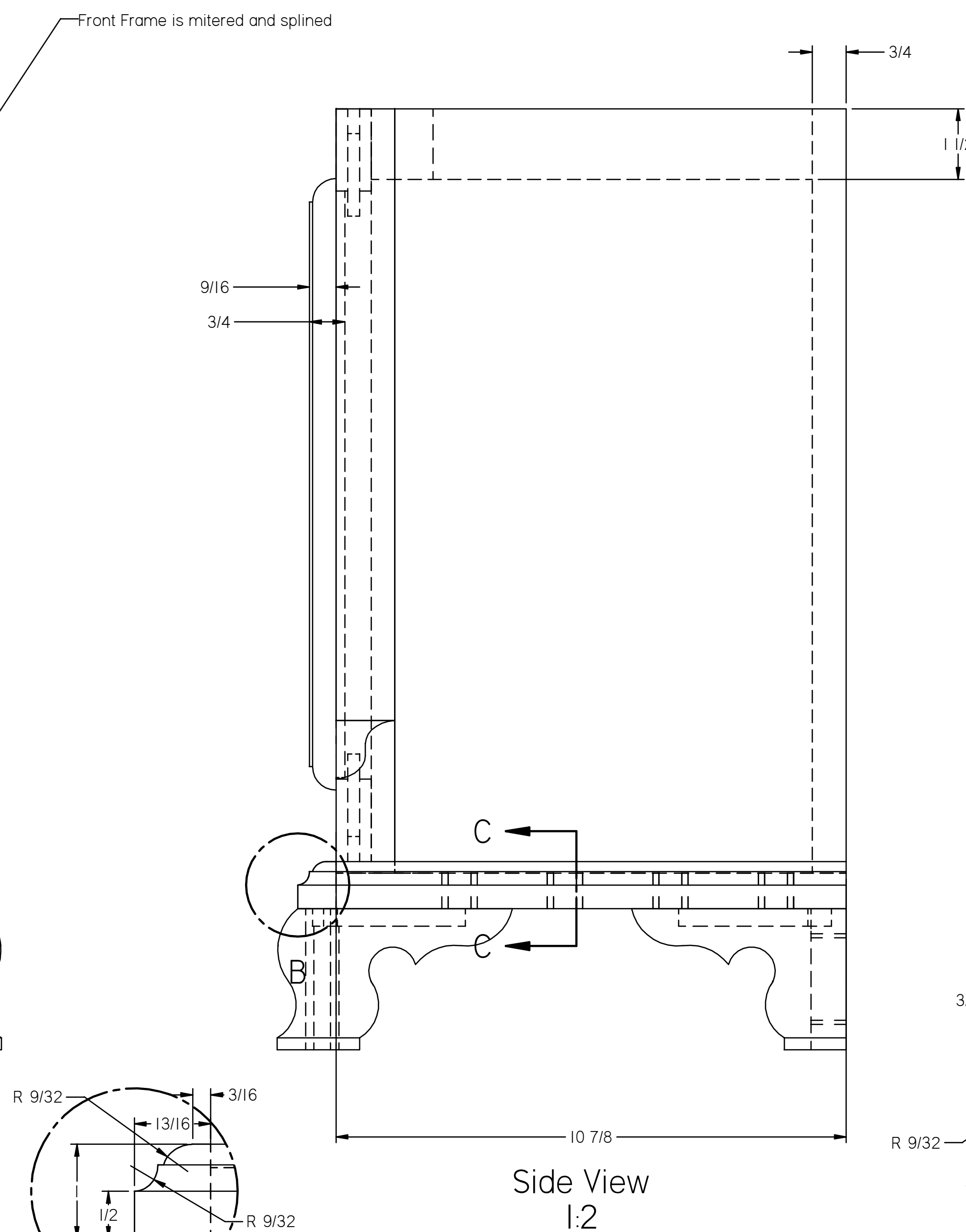
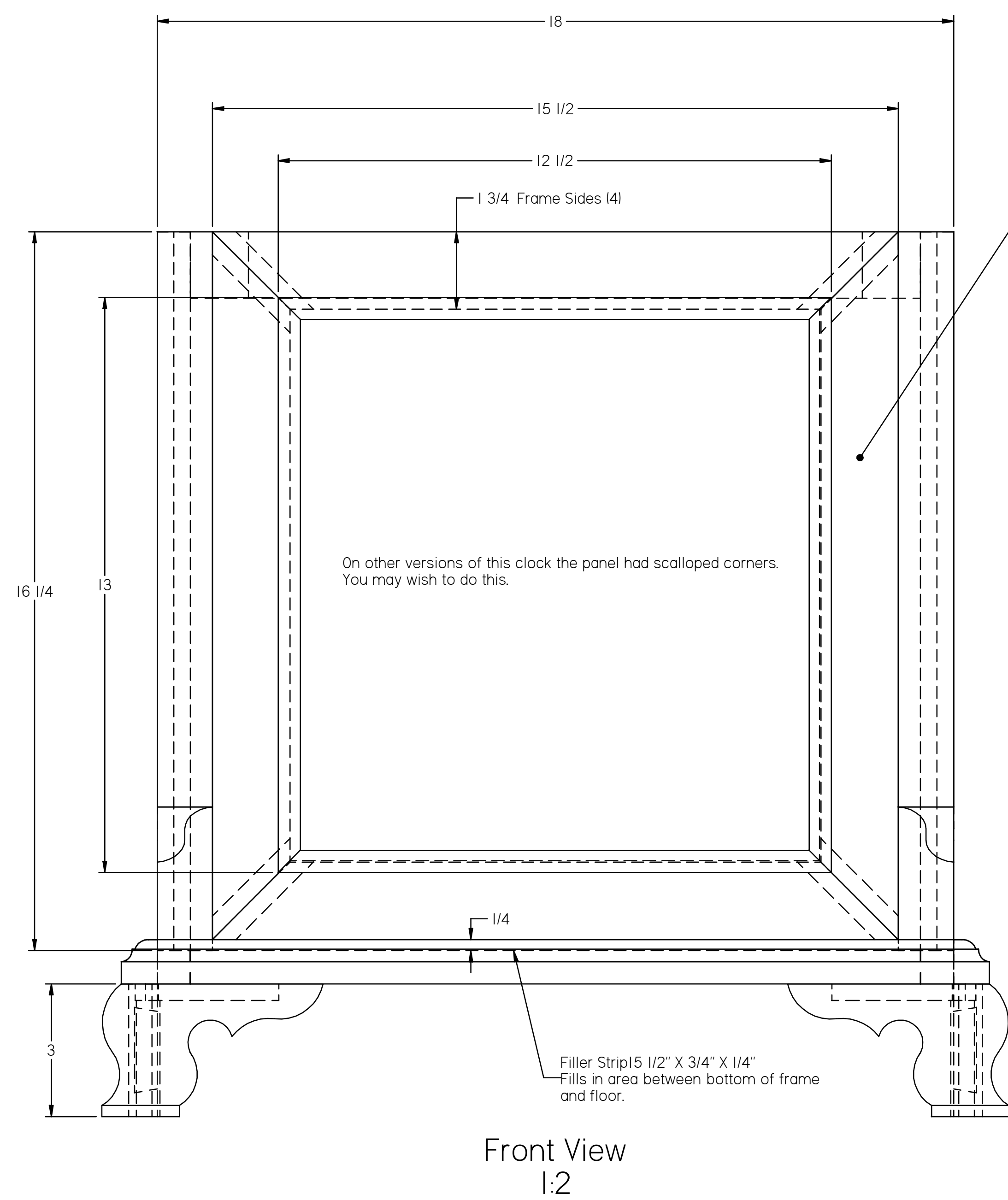


Reference Only

NAME		DATE		SOLID EDGE		
DRAWN		Ed Stuckey/09/30/05		UGS - The PLM Company		
CHECKED				TITLE		
ENG APPR				<i>Newport Tall Case Clock</i>		
MGR APPR						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXXX 3 PL ±XXXX				SIZE	DWG NO	
				<i>Full Clock</i>		REV
				FILE NAME: Full Clock.dft		
				SCALE	1:3	
				WEIGHT		
				SHEET 1 OF 1		



PEDESTAL



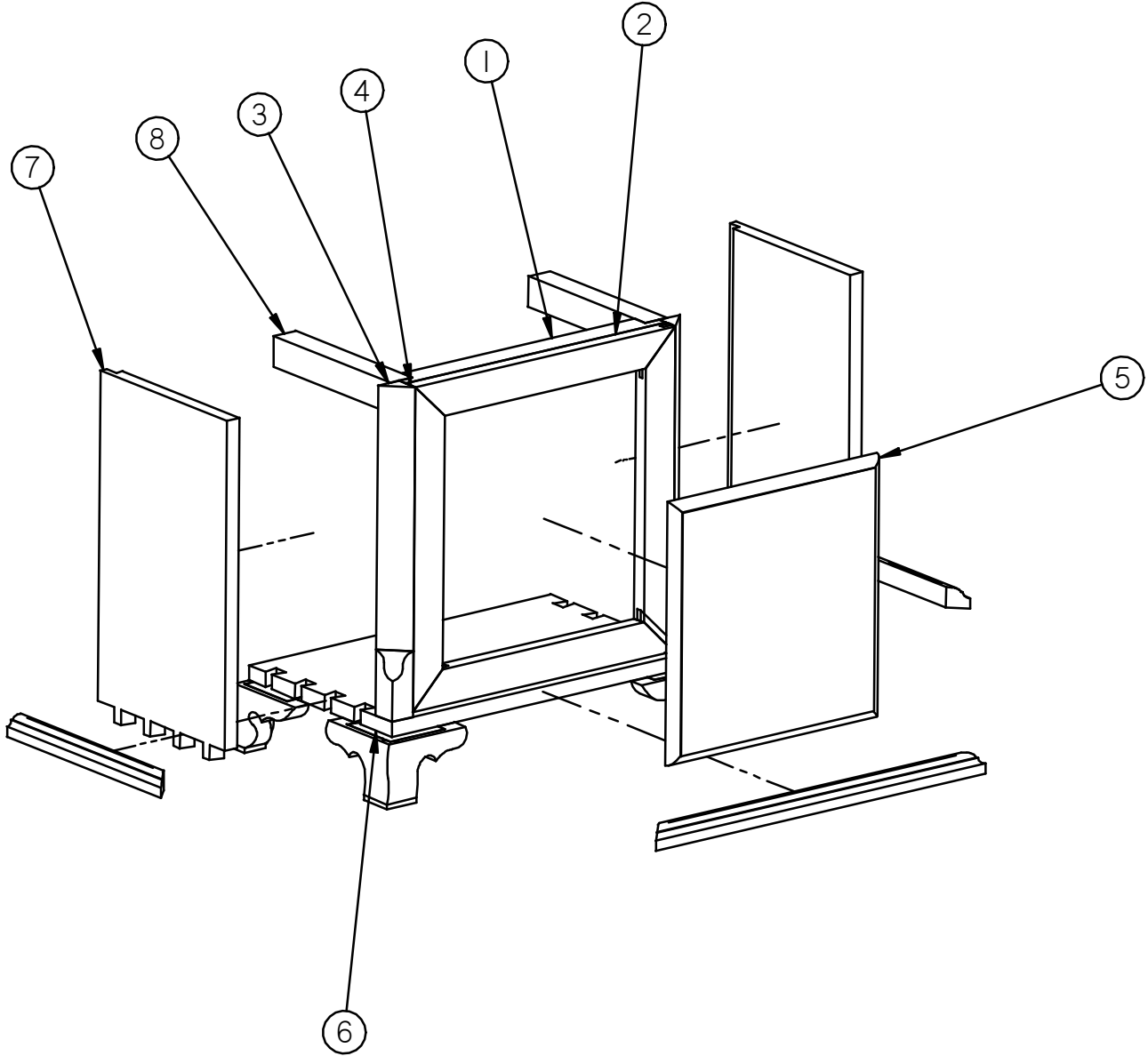
The feet are not a reproduction of the original.
You can change them to suit your needs.

The Feet have corner blocking.
Blocking can be either pine or poplar.

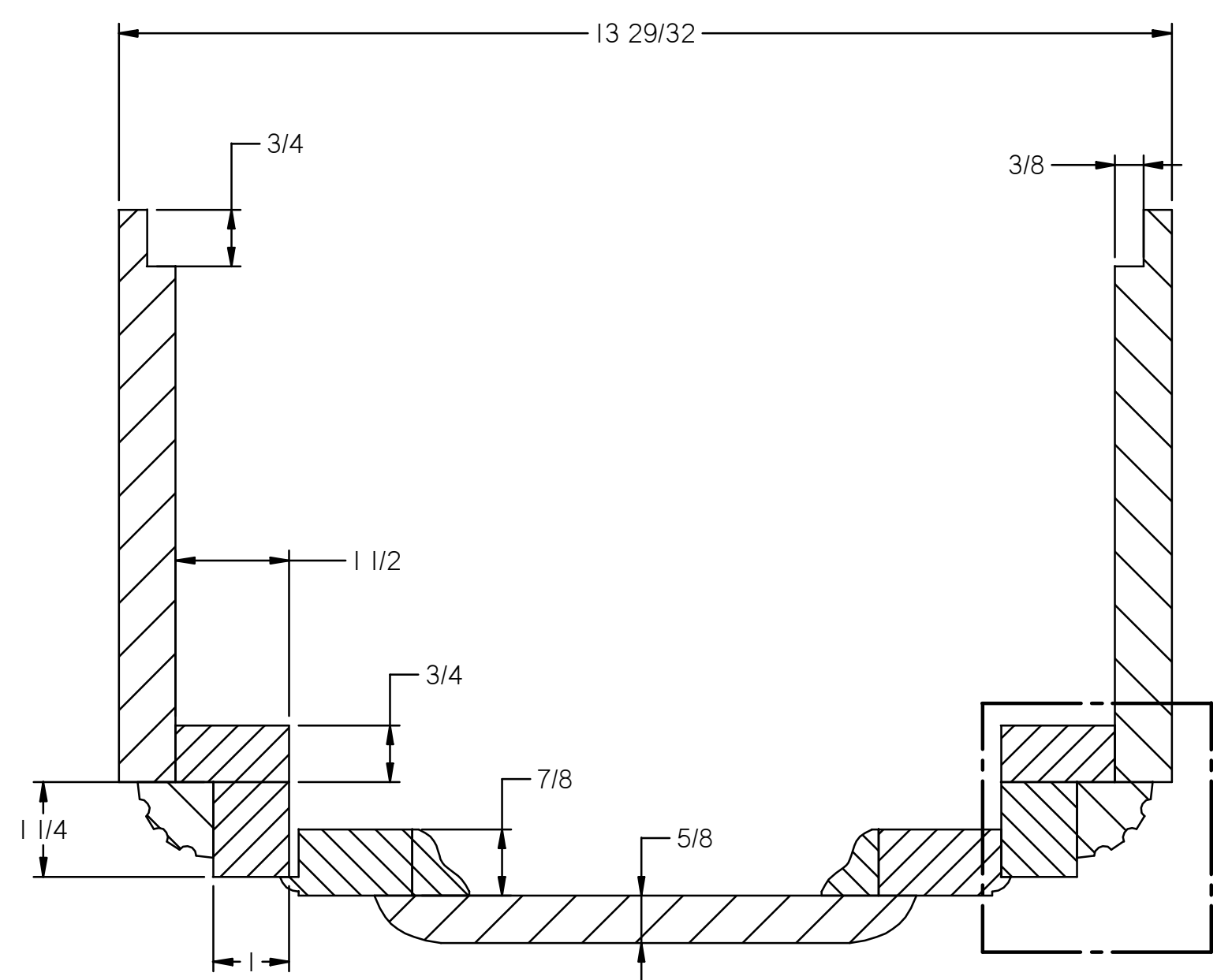
DRAWN	NAME	DATE	SOLID EDGE	
CHECKED	Ed Stuckey	09/20/05	UGS - The PLM Company	
ENG APPR			Newport Tall Case Clock	
MGR APPR			TITLE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX			SIZE	REV
			E	Pedestal
			FILE NAME	Pedestal.dft
			SCALE	WEIGHT
				SHEET 1 OF 1

Item Number	Title	Material	Sizes	Quantity
1	Support Front	Pine	15 1/2 X 1 1/2 X 1 5/16	1
2	Frame Upper	Mahogany	15 1/2 X 1 3/4 X 1 3/4	2
3	Columns	Mahogany	16 1/4 X 1 1/4 X 1 1/4	2
4	Frame Side	Mahogany	16 1/4 X 1 3/4 X 1 3/4	2
5	Front Panel	Mahogany	13 X 12 1/2 X 3/4	1
6	Bottom	Pine	18 X 10 7/8 X 3/4	1
7	Sides	Mahogany	16 1/4 X 10 7/8 X 3/4	2
8	Support	Pine	8 7/8 X 1 1/2 X 1 5/16	2

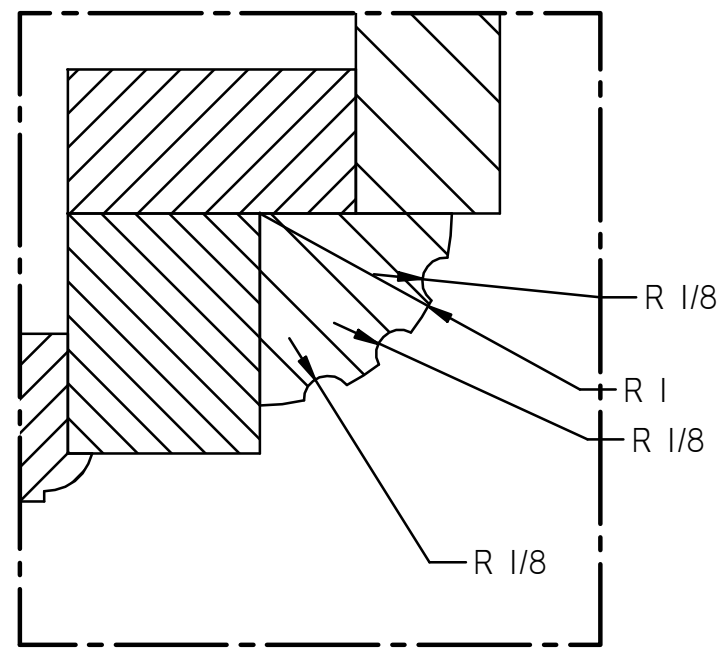
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



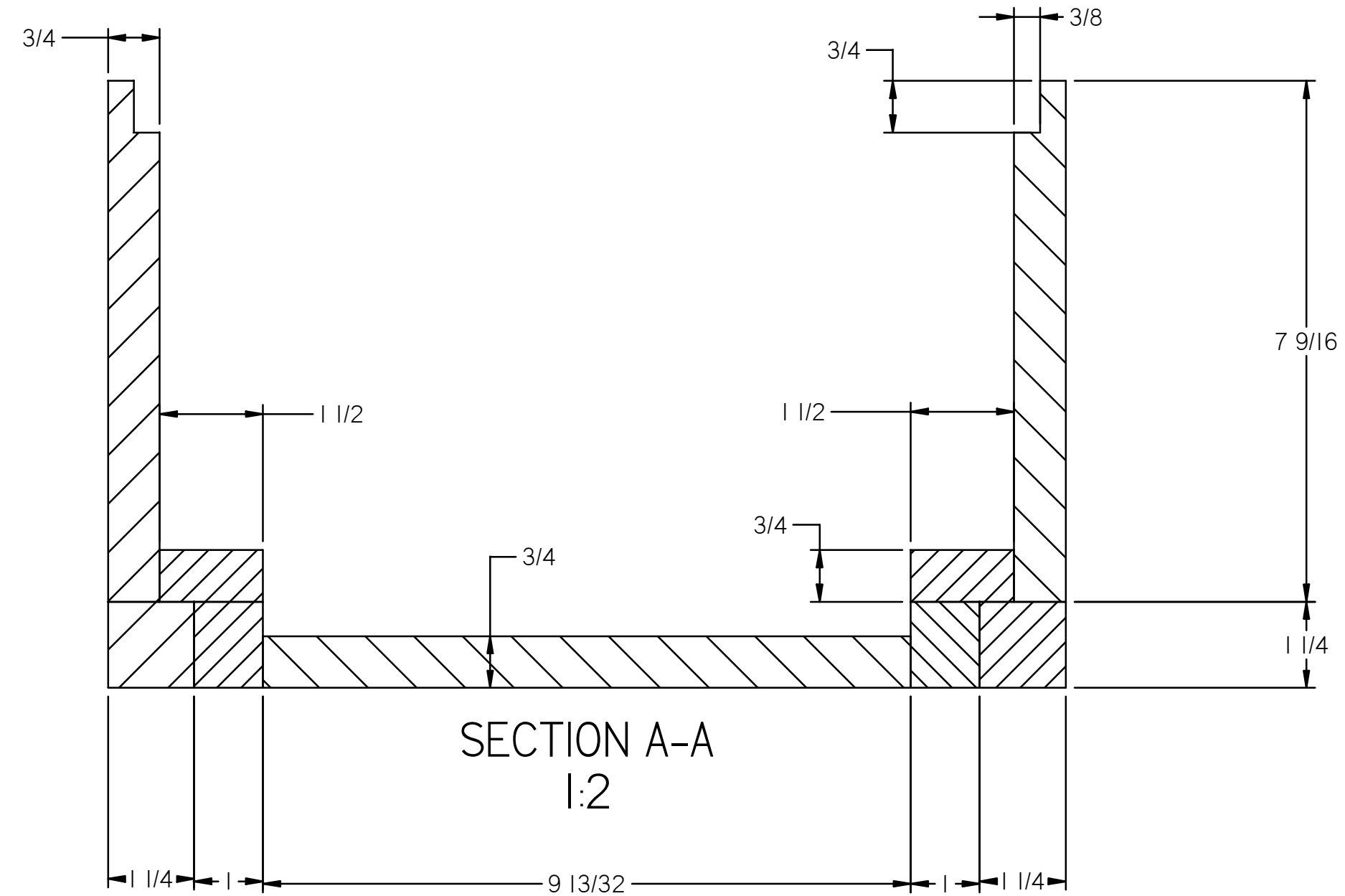
	NAME	DATE	SOLID EDGE <i>UGS - The PLM Company</i>	
DRAWN	Ed Stuckey	09/21/05		
CHECKED				
ENG APPR				
MGR APPR			TITLE <i>Newport Tall Case Clock</i>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±X.XX 3 PL ±X.XXX			SIZE B	DWG NO <i>Pedestal Exploded</i>
			FILE NAME: Pedestal Exploded DWG.dft	
			SCALE:	WEIGHT: SHEET 1 OF 1



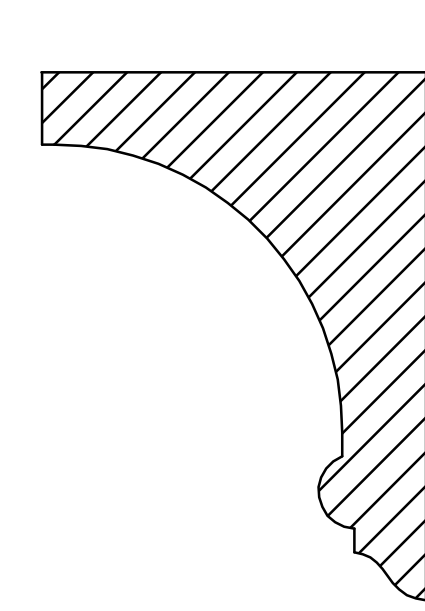
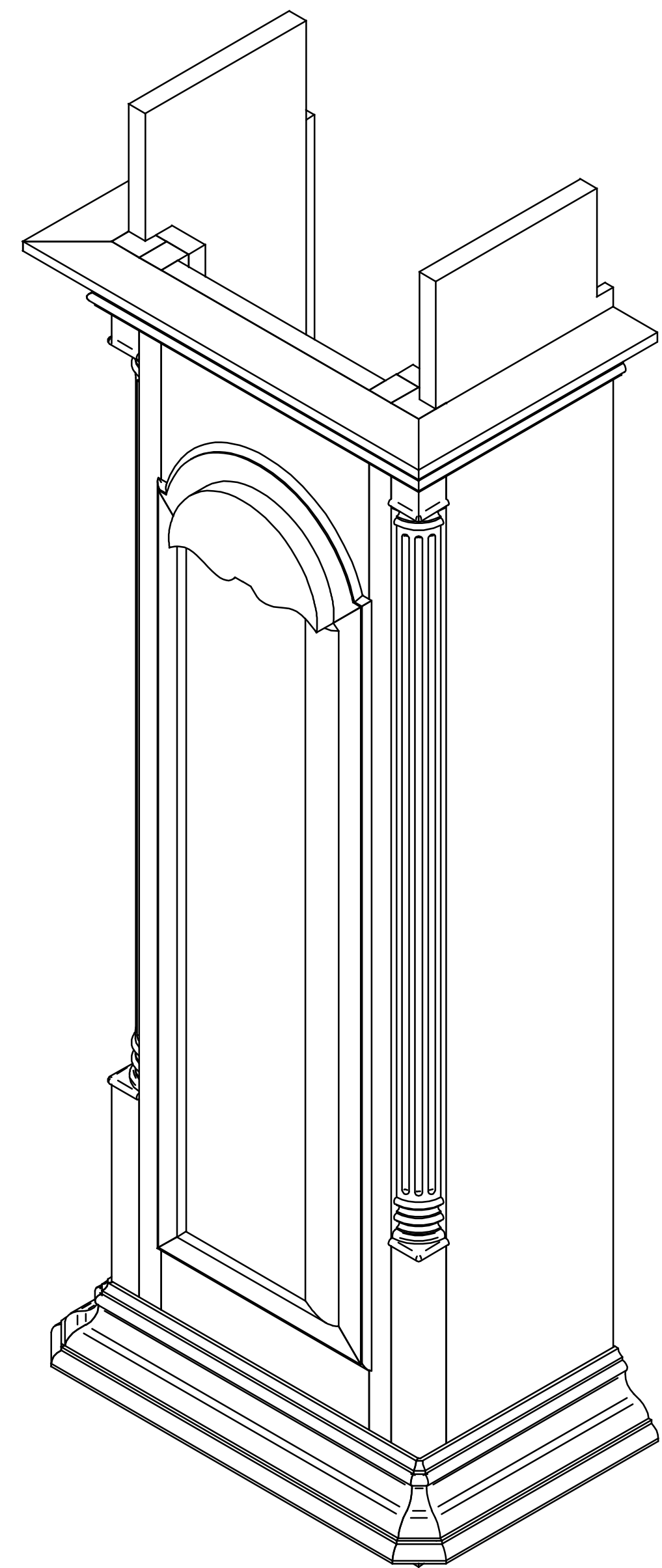
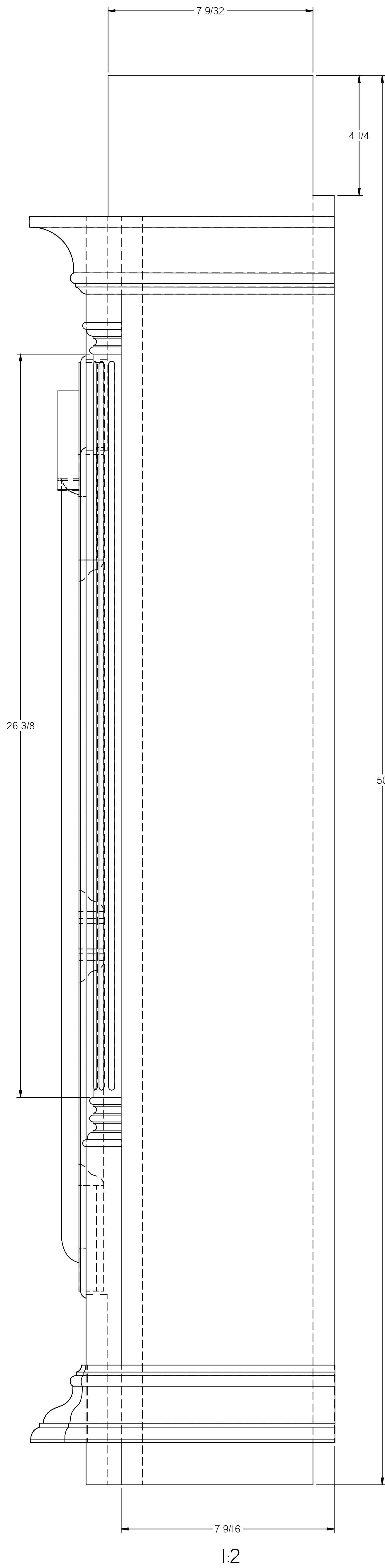
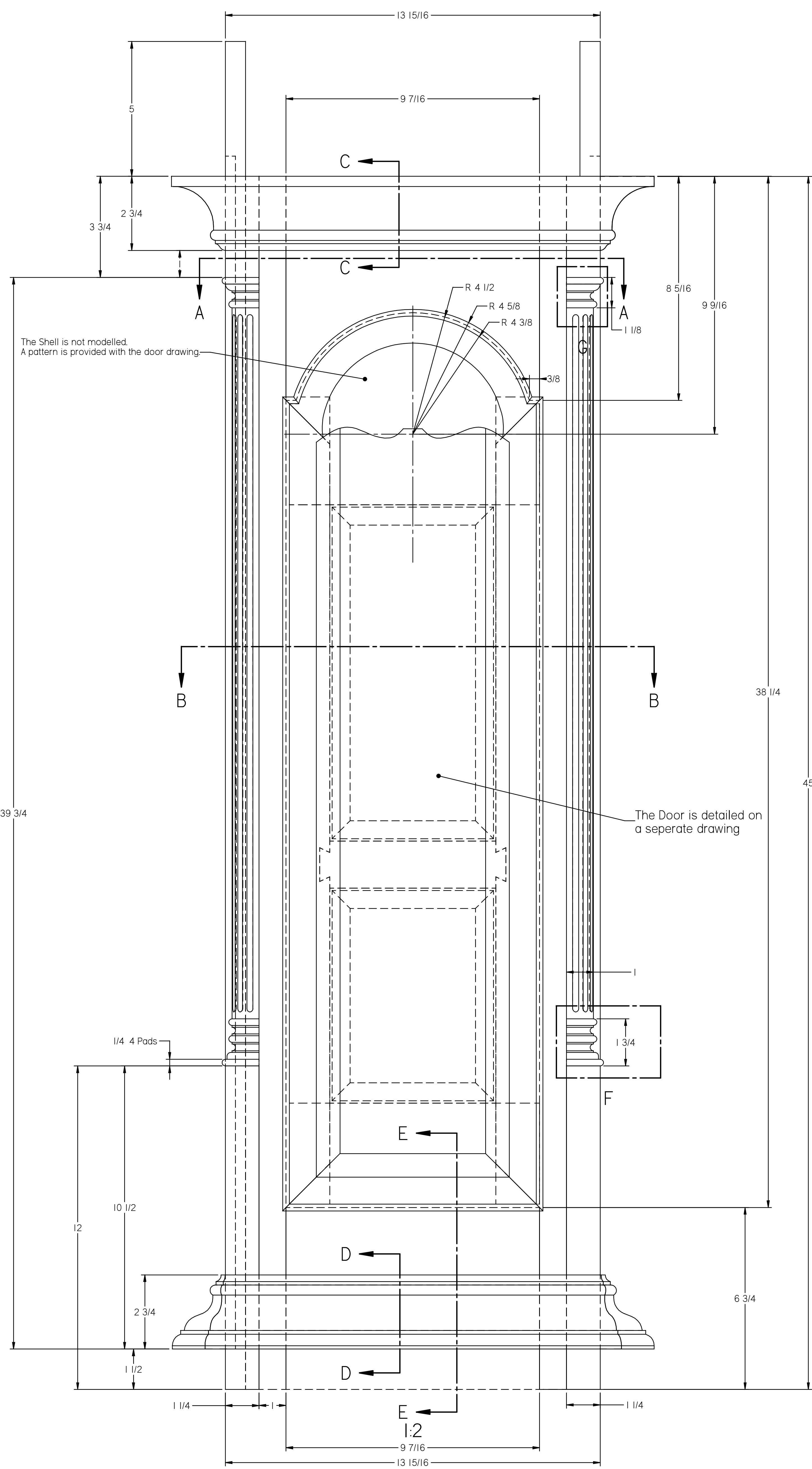
SECTION B-B
1:2



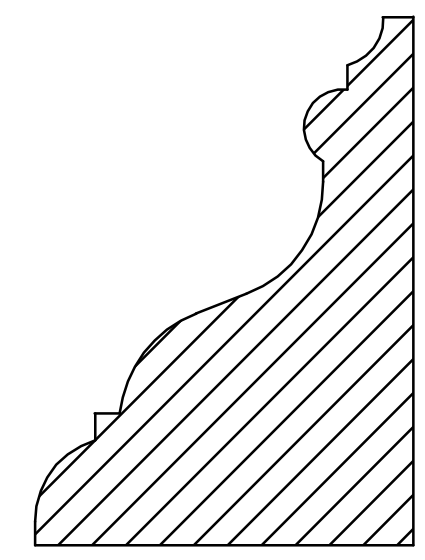
DETAIL H
1:1



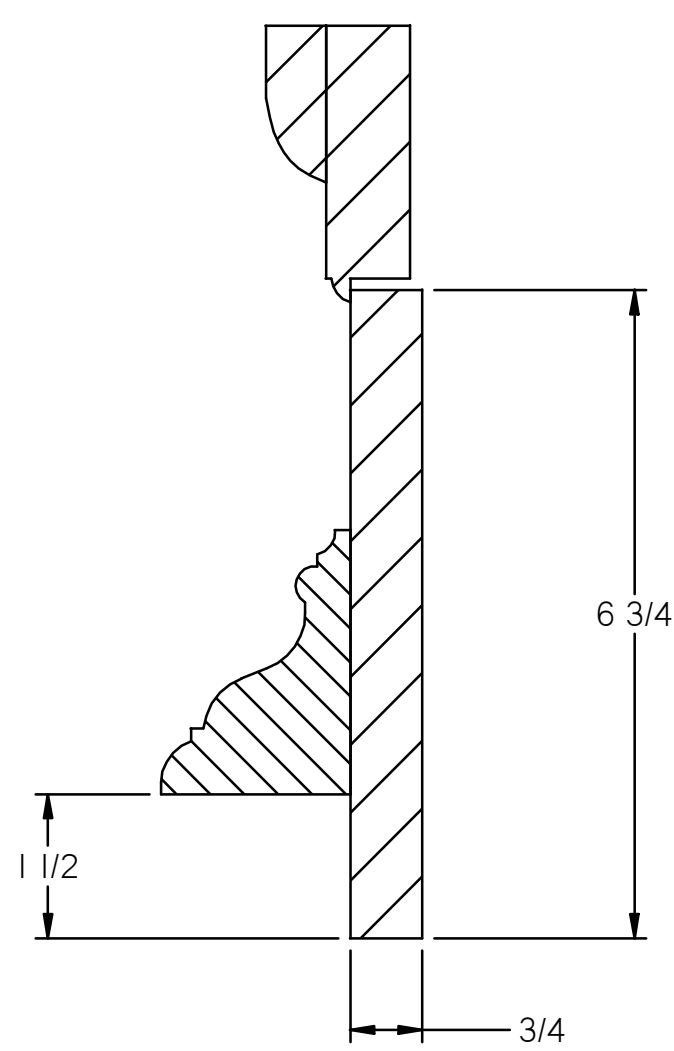
SECTION A-A
1:2



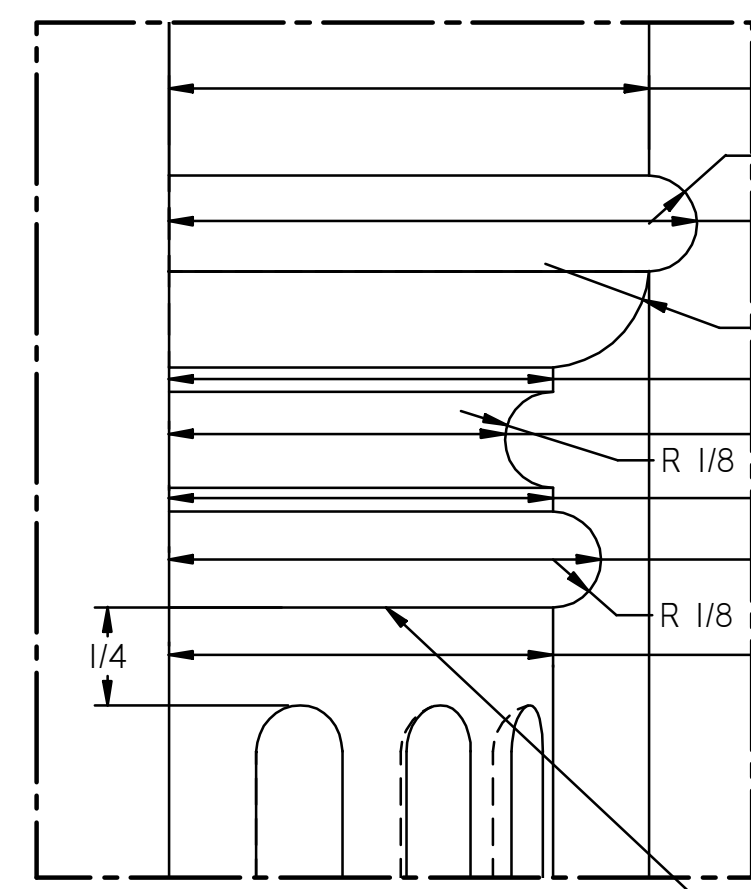
SECTION C-C
1:1 Full Scale



SECTION D-D
1:1 Full Scale



SECTION E-E
1:2

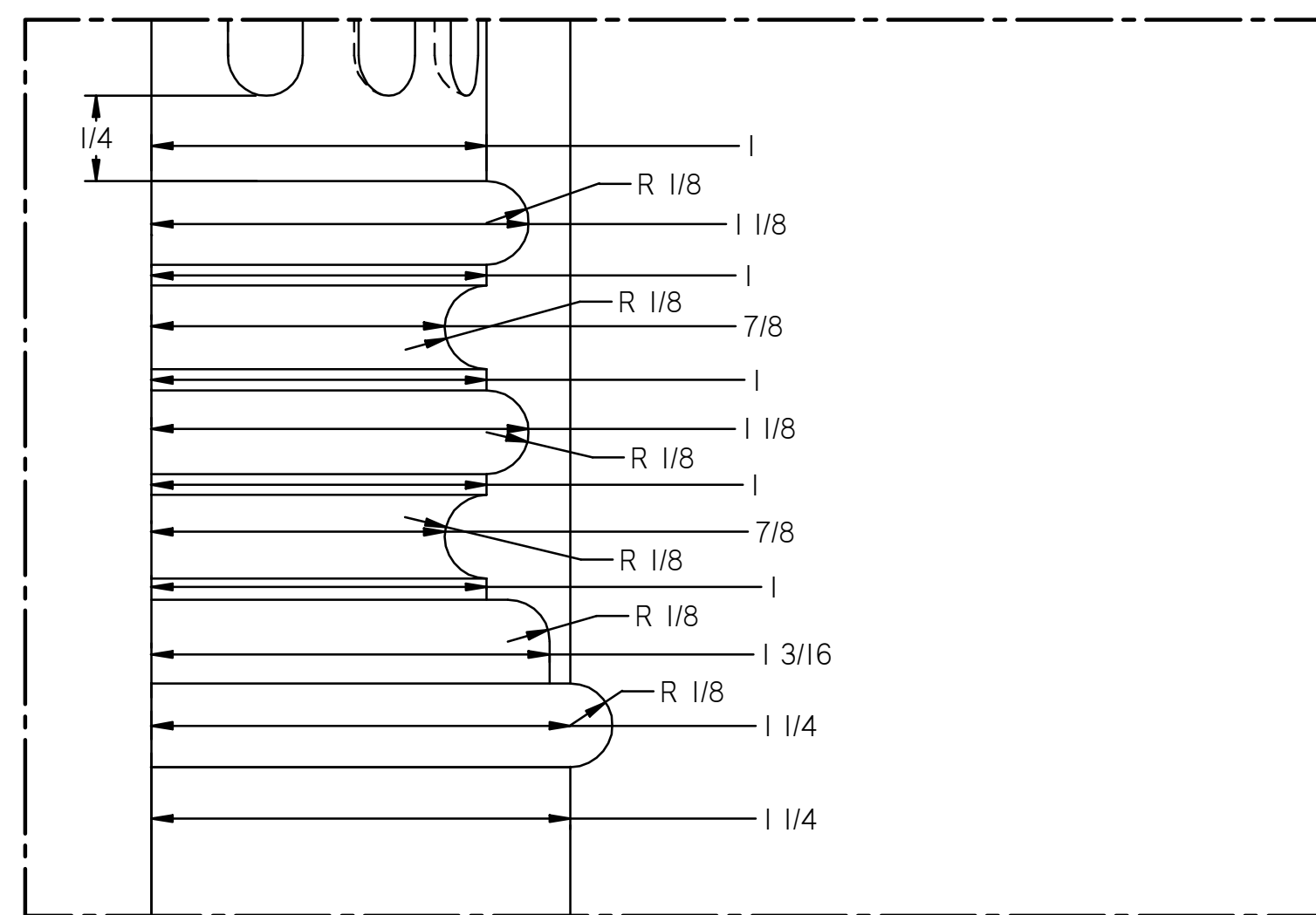


DETAIL G
2:1

Split the joint here and turned the center section separate from the end sections.

These are quarter columns. Join 4 pieces of stock for turning. Diameters are 2 times the dimensions shown. If dimension is 1 1/8 the diameter on the lathe would be 2 1/4.

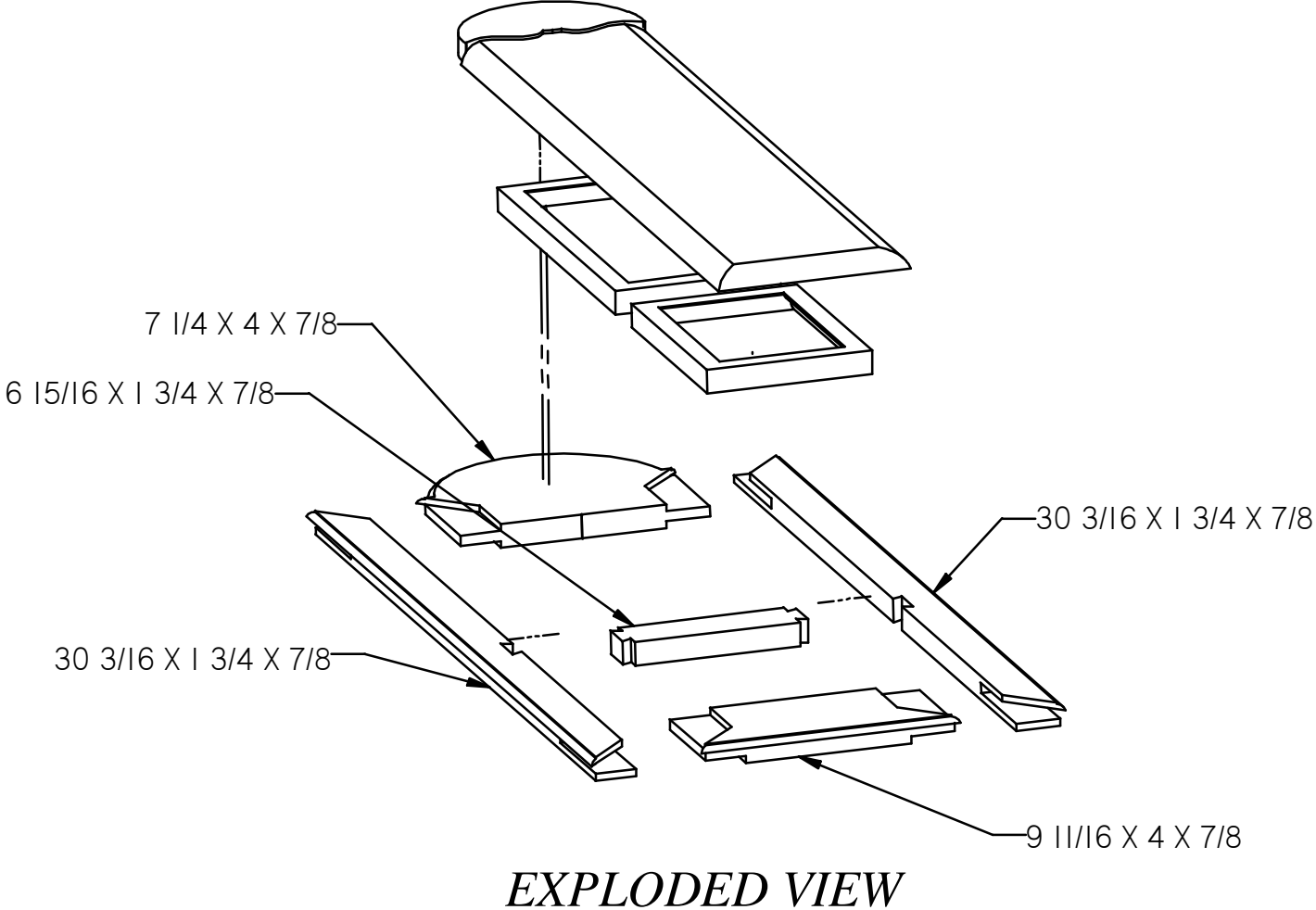
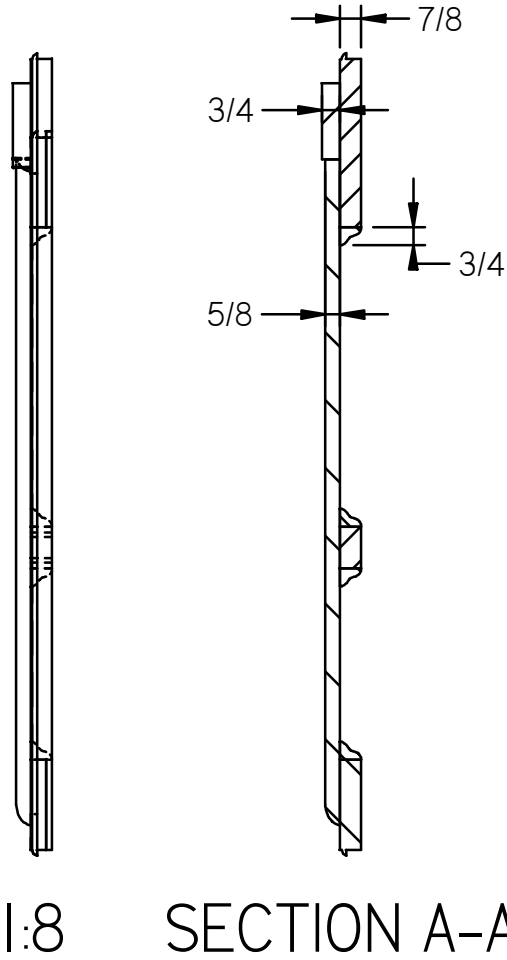
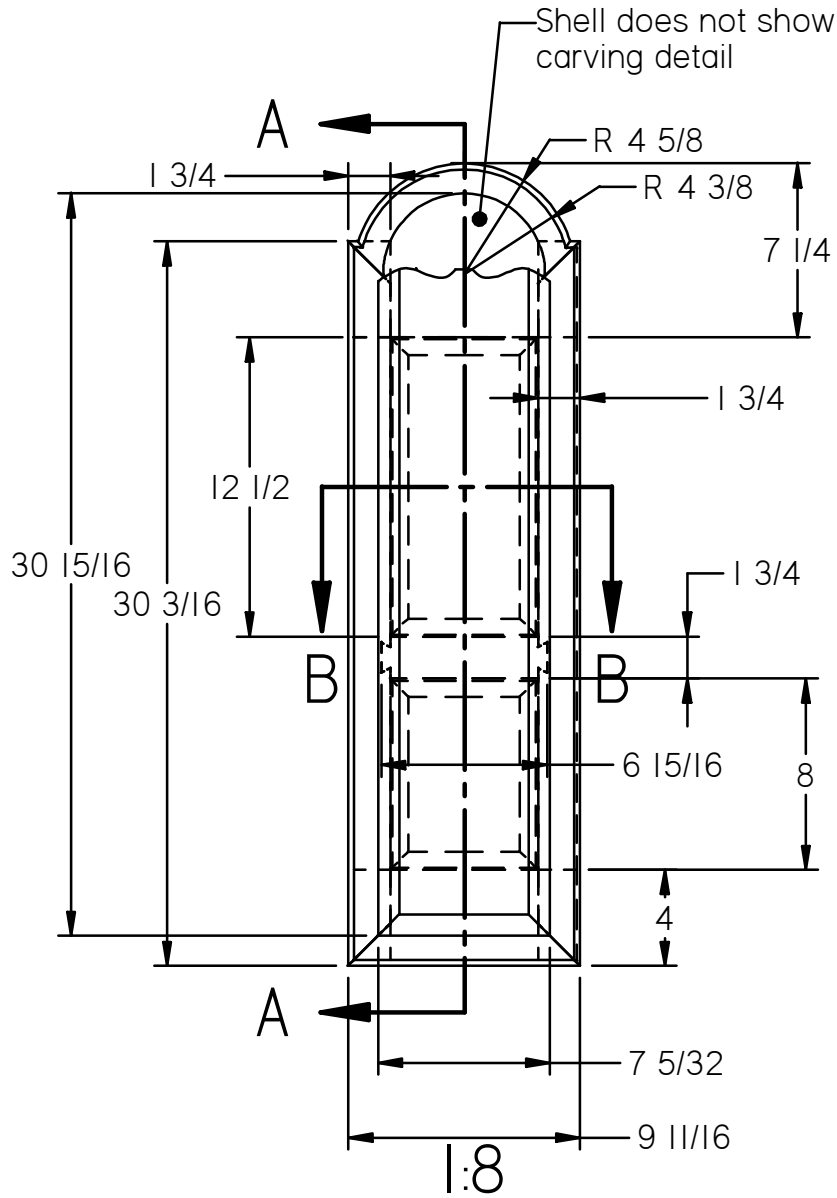
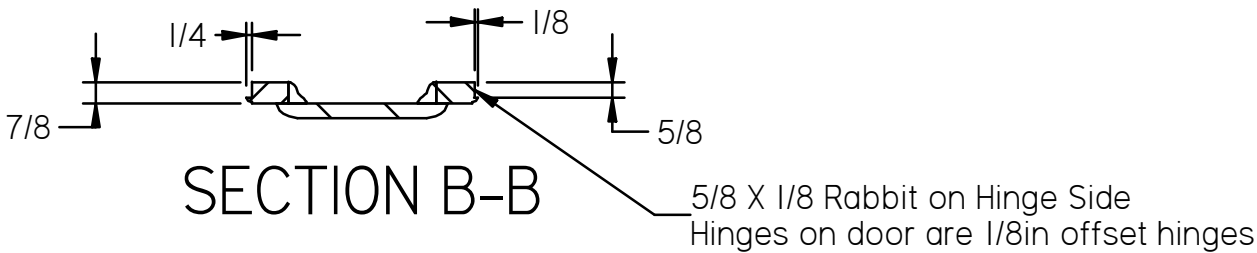
Columns on the original piece had stopped fluting, both on the waist and hood. This clock does not have this element.



DETAIL F
2:1

	NAME	DATE	SOLID EDGE		
	Ed Stuckey	09/22/05	UGS - The PLM Company		
DRAWN			TITLE		
CHECKED			Newport Tall Case Clock		
ENG APPR			SIZE DWG NO		
MGR APPR			E		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXXX 3 PL ±XXXX			Waist		
			FILE NAME: Waist.dft		
			SCALE:	WEIGHT:	SHEET 1 OF 1

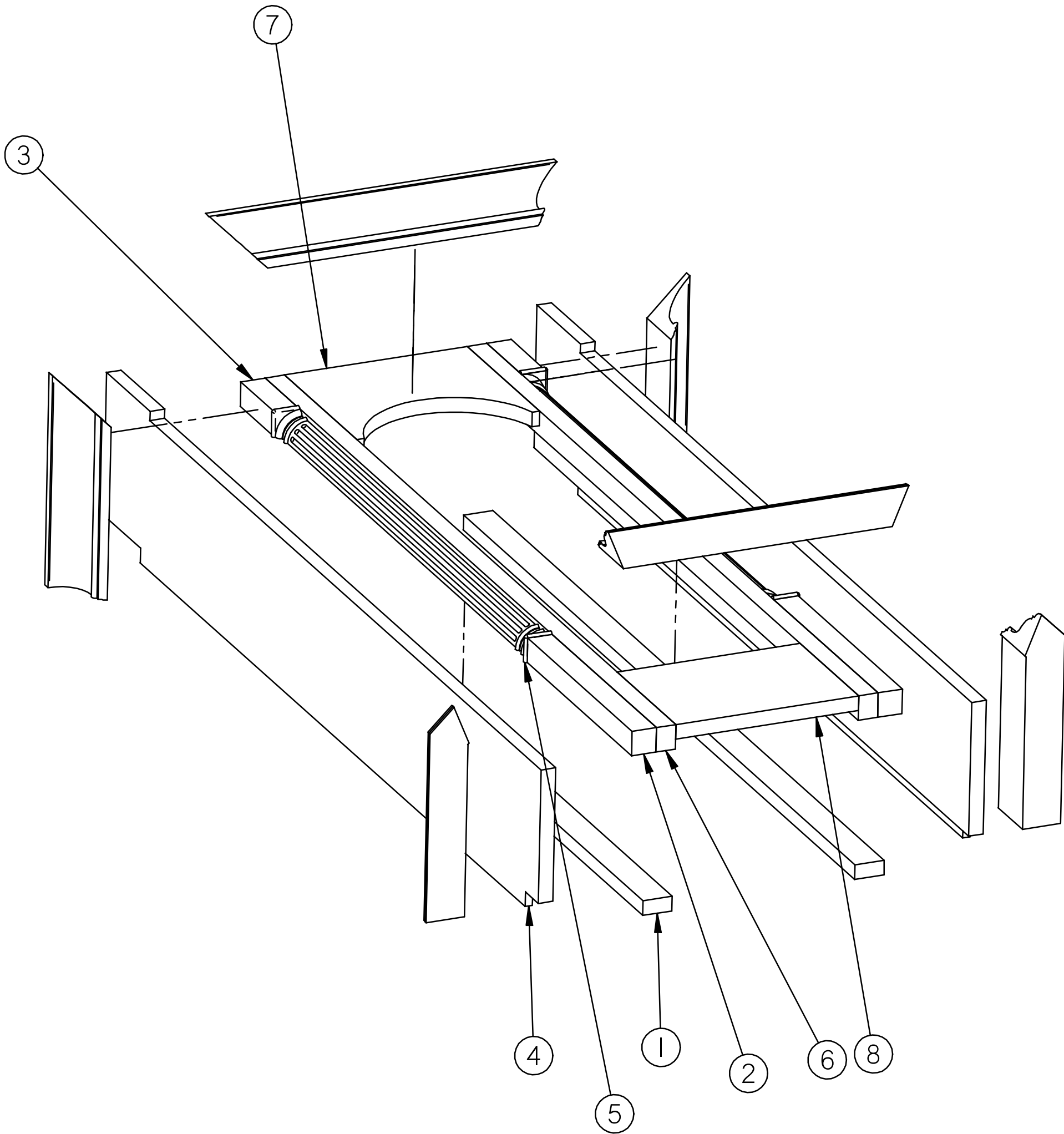
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



	NAME	DATE	SOLID EDGE UGS - The PLM Company	
DRAWN	Ed Stuckey	09/23/05		
CHECKED			TITLE Newport Tall Case Clock	
ENG APPR				
MGR APPR			SIZE B	DWG NO. Waist Door Exploded
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX			FILE NAME: Waist Door Exploded View.dft	
			SCALE:	WEIGHT: SHEET 1 OF 1

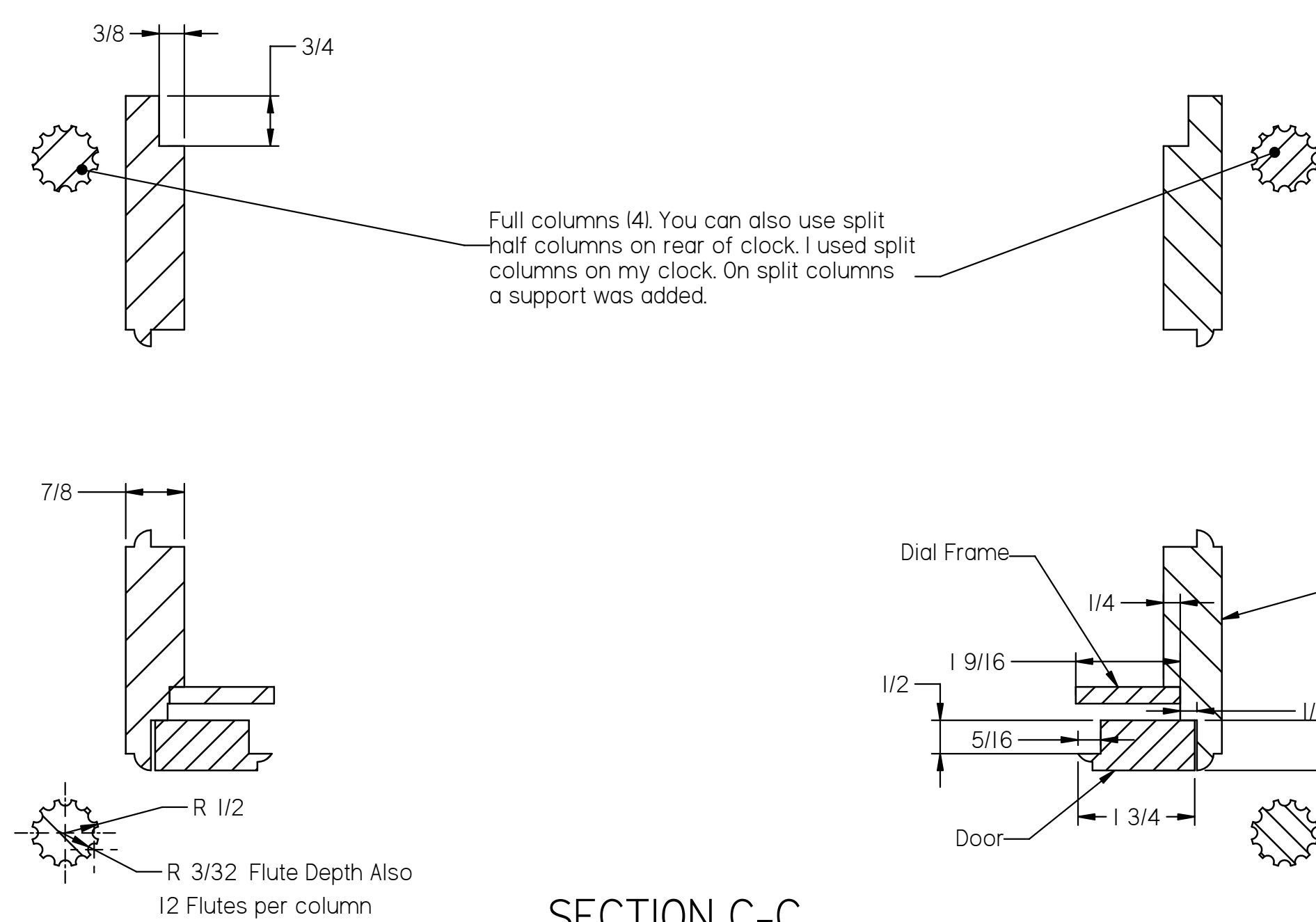
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

Item Number	Title	Material	Sizes	Quantity
1	Rear Support	Mahogany	45 X 1 1/2 X 3/4	2
2	Lower Column Block	Mahogany	12 X 1 1/4 X 1 1/4	2
3	Upper Column Block	Mahogany	3 3/4 X 1 1/4 X 1 1/4	2
4	Sides	Mahogany	50 X 7 9/16 X 3/4	2
5	Column Pads	Mahogany	1 1/4 X 1 1/4 X 1/4	4
6	Door Frame Stile	Mahogany	45 X 1 1/4 X 3/4	2
7	Upper Door Frame Rail	Mahogany	9 7/16 X 8 5/16 X 3/4	1
8	Lower Door Frame Rail	Mahogany	9 7/16 X 6 3/4 X 3/4	1

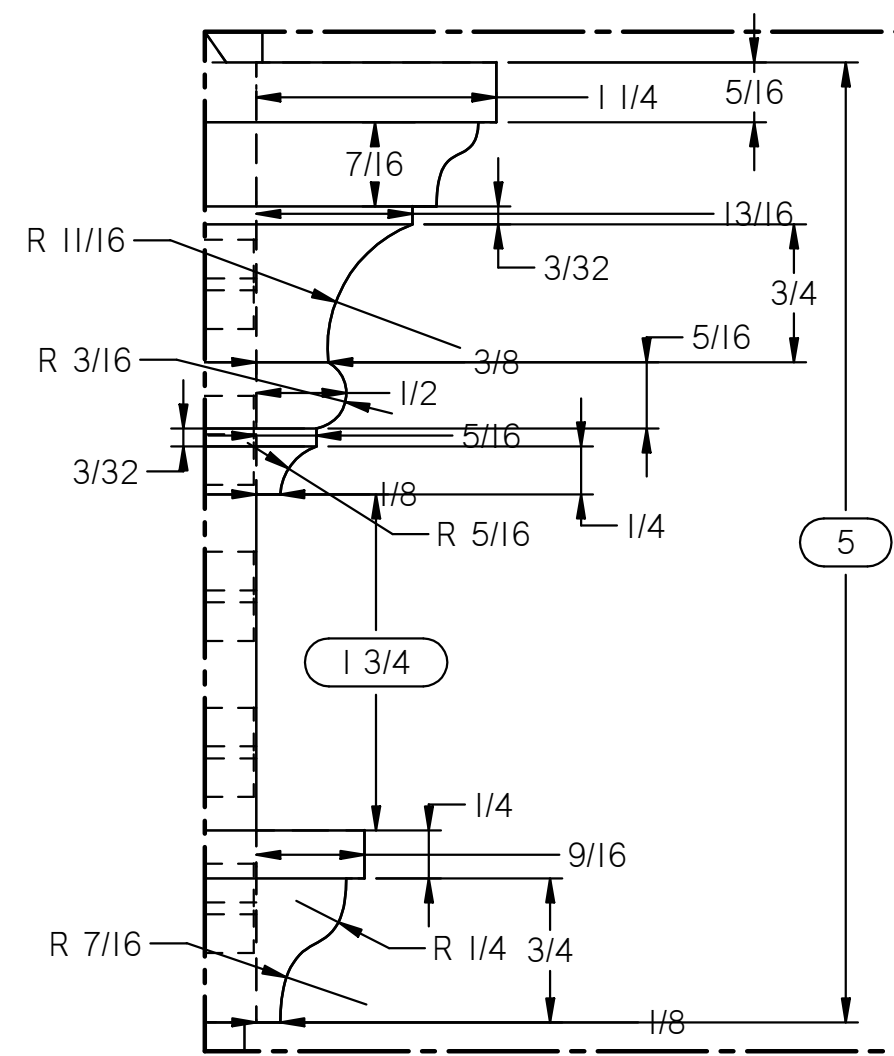
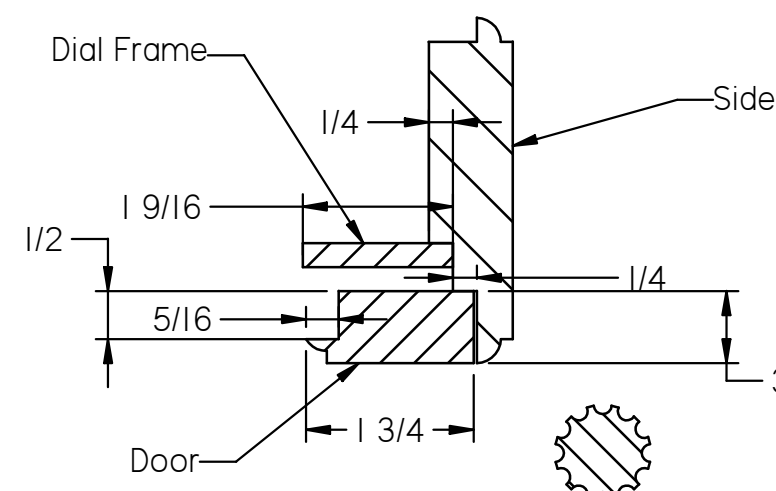


WAIST EXPLODED VIEW

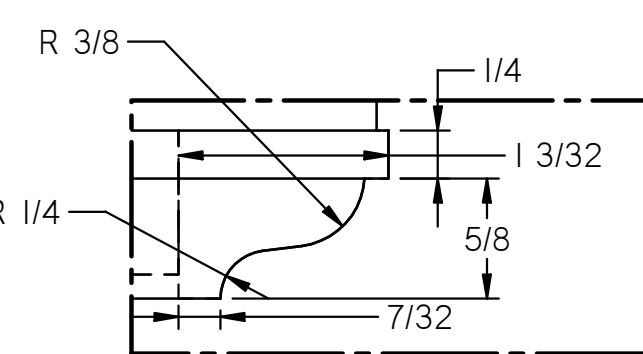
	NAME	DATE	SOLID EDGE UGS - The PLM Company	
DRAWN	Ed Stuckey	09/27/05		
CHECKED			TITLE	
ENG APPR			Newport Tall Case Clock	
MGR APPR			SIZE C DWG NO Waist Part List REV	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXX			FILE NAME: Waist and Part List.dft	
			SCALE:	WEIGHT: SHEET 1 OF 1



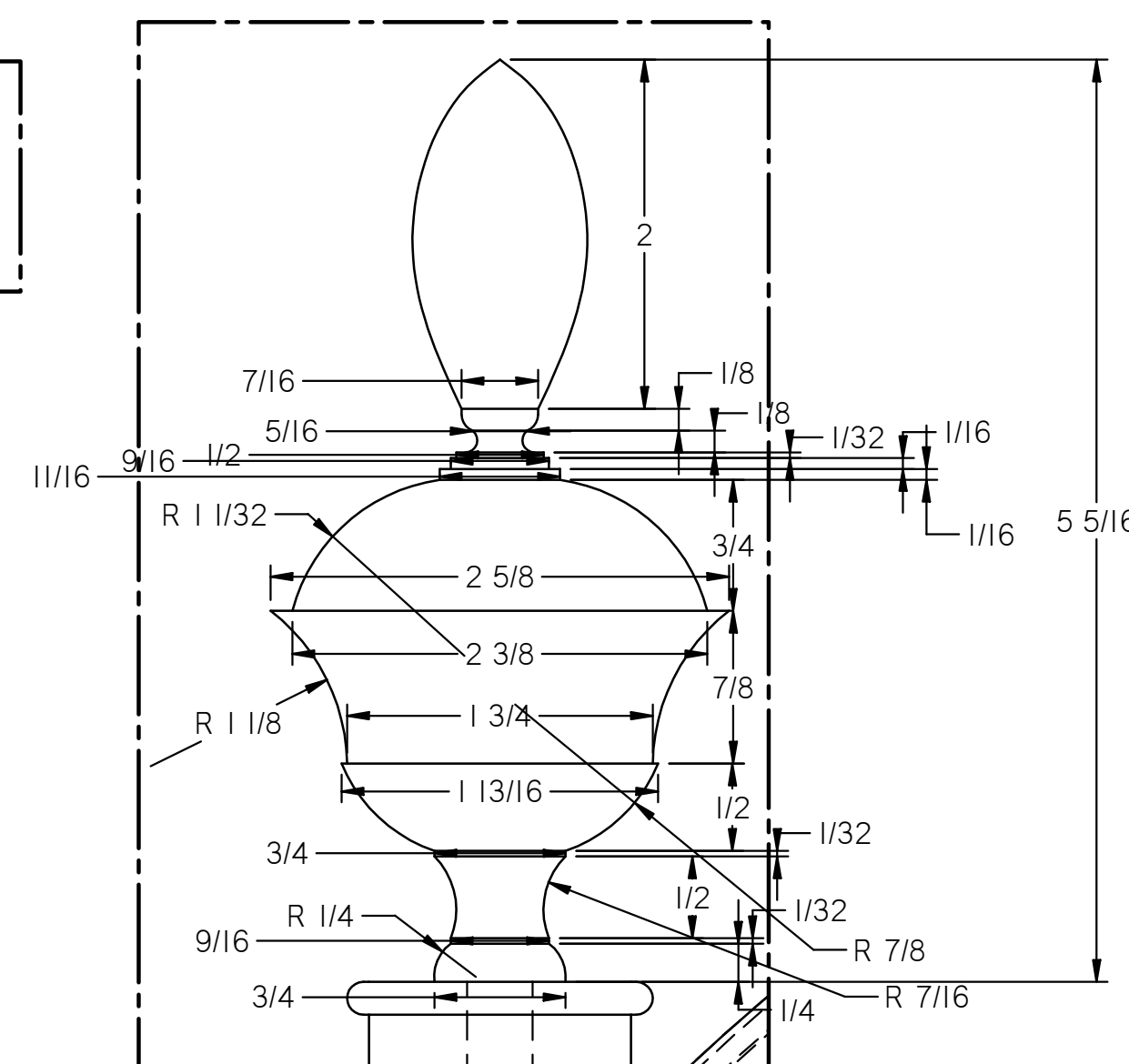
SECTION C-C
1:2



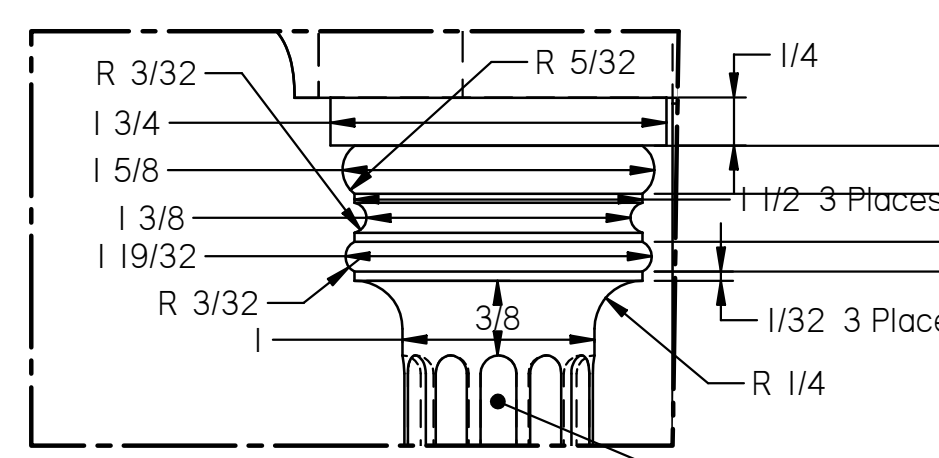
DETAIL D
1:1
Upper Molding
Full Scale



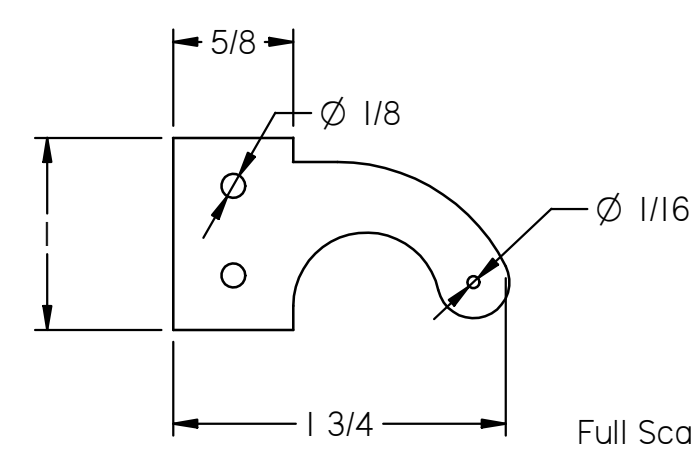
DETAIL E
1:1
Lower Molding
Full Scale



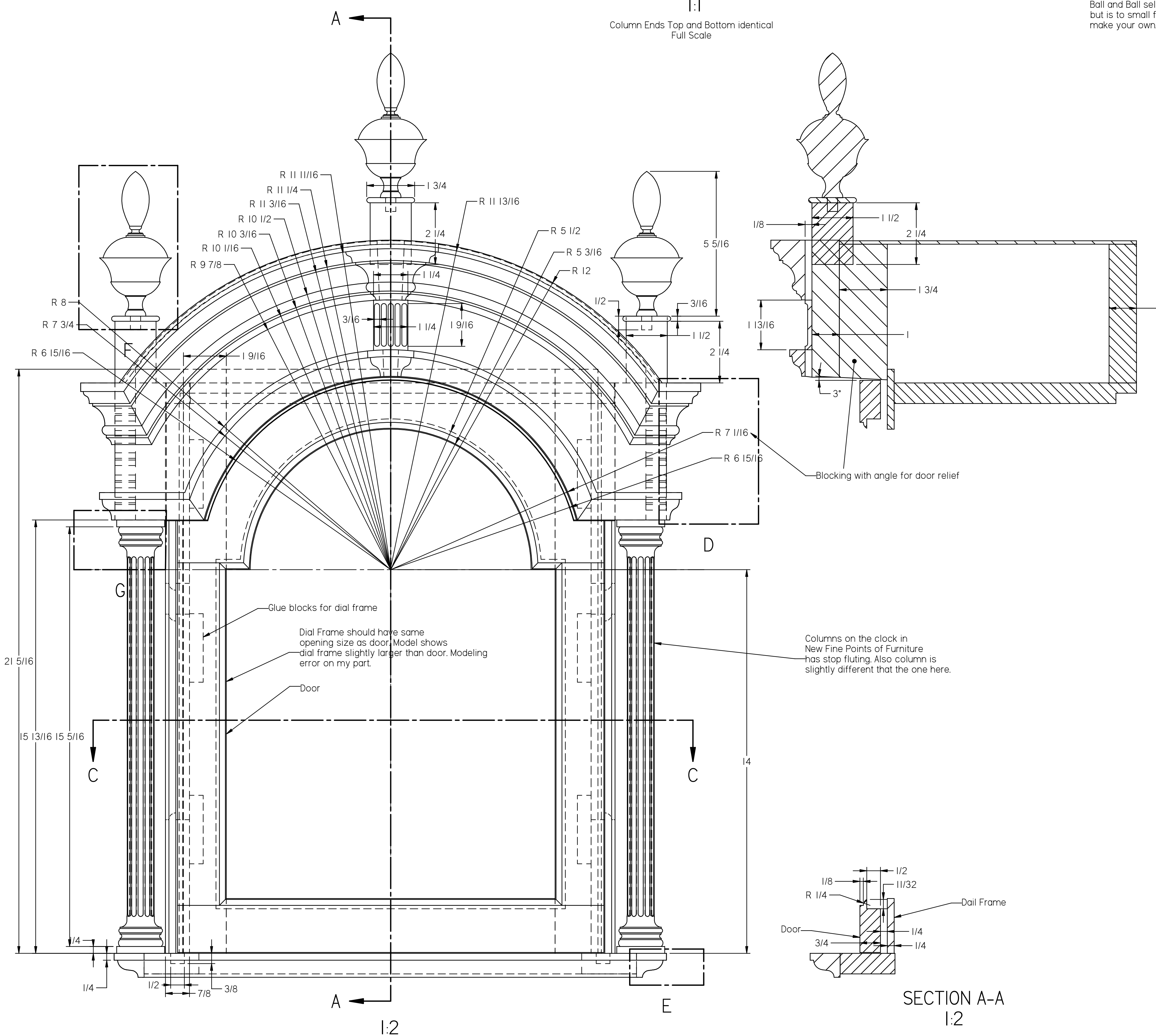
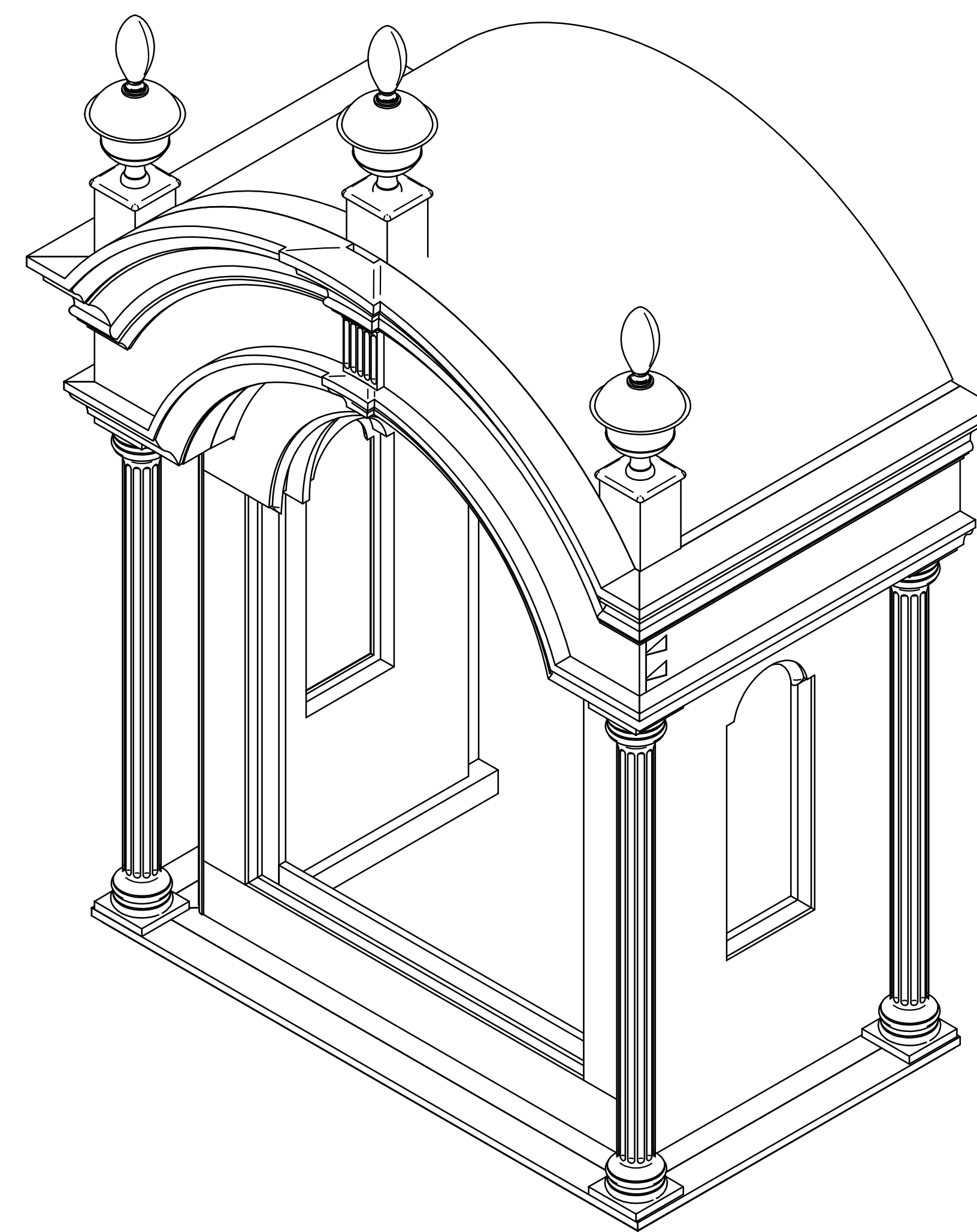
DETAIL F
1:1
Finial Full Scale
Carving detail not shown.
see attached jpg of finial carving



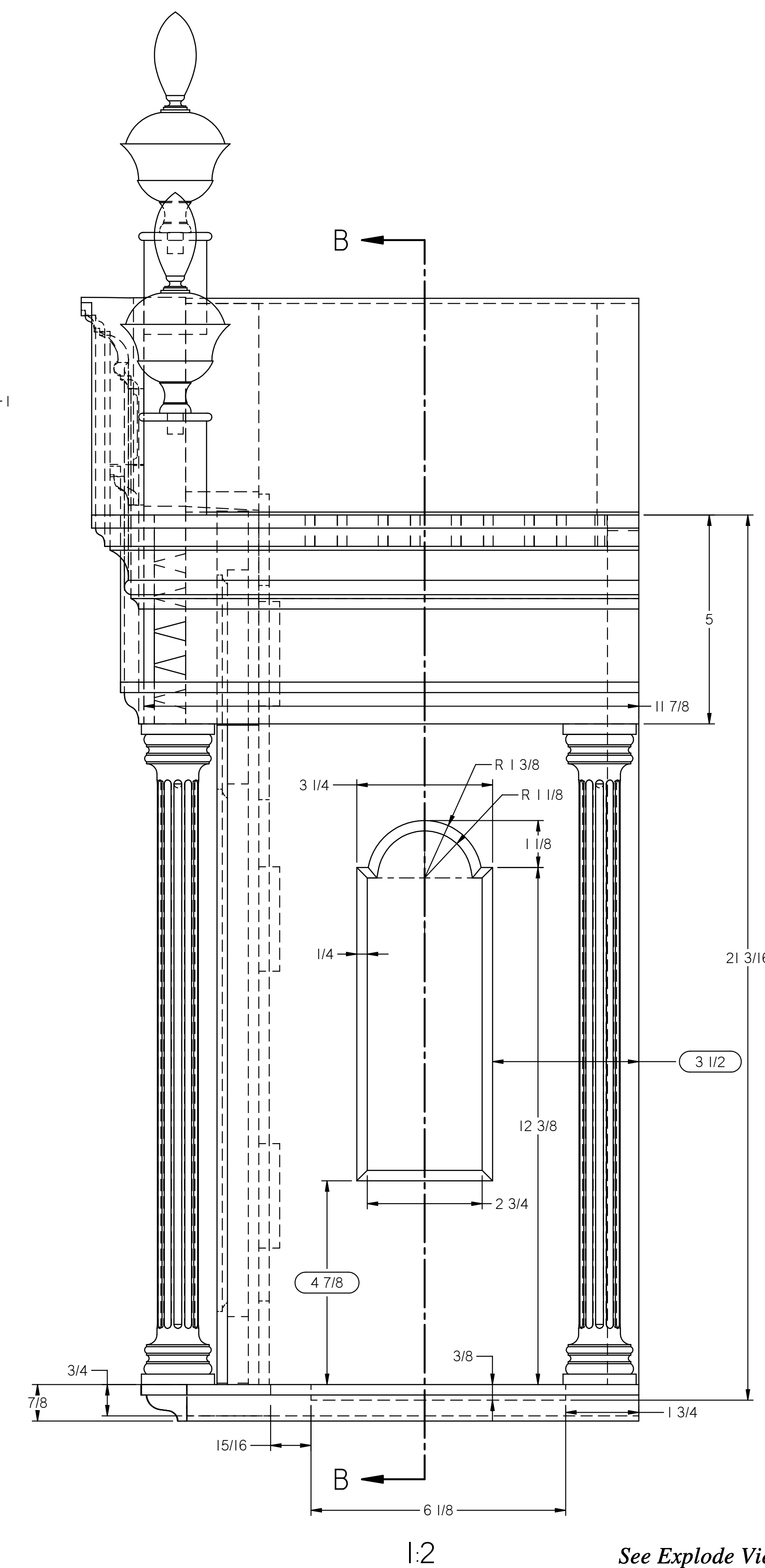
DETAIL G
1:1
Column Ends Top and Bottom identical
Full Scale



Hood Door Hinge
0.080 Brass
Ball and Ball sells a door hinge
but is to small for this clock, you must
make your own.

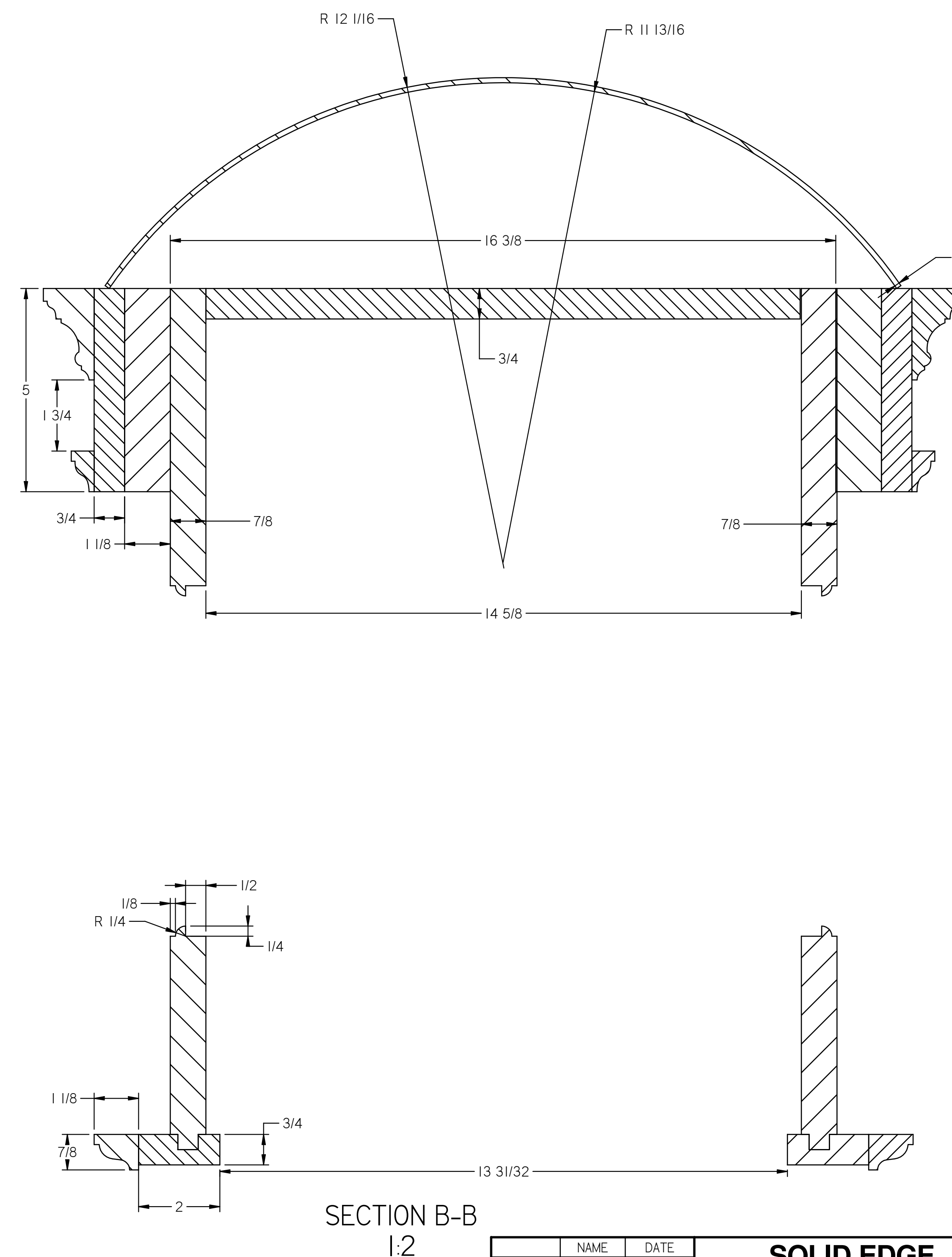


SECTION A-A
1:2



1:2

See Explode View
for more detail

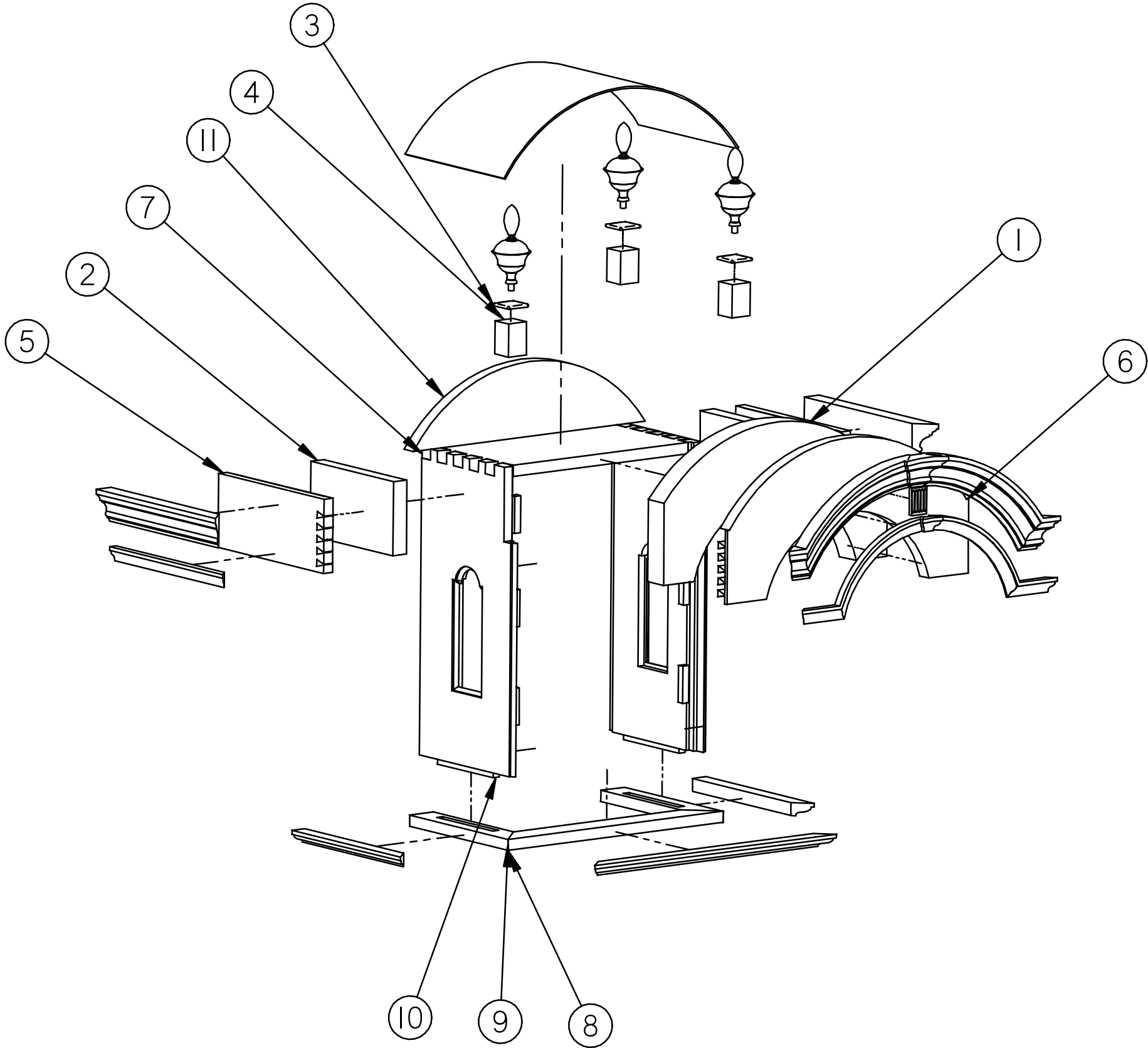


SECTION B-B
1:2

All Views are 1/2 scale
except Detail Views which are
Full Scale. Drawing can be
scaled if printed to full E size.

DRAWN	NAME	DATE	SOLID EDGE	
CHECKED	Ed Stuckey	09/28/05	UGS - The PLM Company	
ENG APPR			TITLE	
MGR APPR			Newport Tall Case Clock	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES = XX° 2 PL = XXX 3 PL = XXXX			SIZE	REV
			E	HOOD
			FILE NAME	HOOD.dft
			SCALE	WEIGHT
			SHEET 1 OF 1	

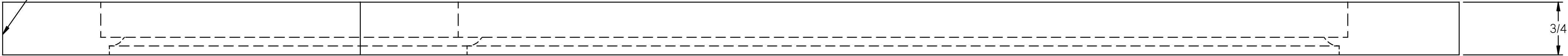
Item Numb er	Title	Material	Sizes	Quantity
1	Front Blocking	Mahogany	18 5/8 X 10 1/16 X 1 3/4	1
2	Side Blocking	Mahogany	9 3/32 X 5 X 1 1/8	2
3	Finial Cap	Mahogany	1 3/4 X 1 3/4 X 3/16	3
4	Finial Base	Mahogany	2 1/4 X 1 1/2 X 1 1/2	3
5	Upper Side	Mahogany	11 7/8 X 5 X 3/4	2
6	Front	Mahogany	20 1/8 X 10 3/16 X 1	1
7	Top Side Support	Pine	16 3/8 X 8 7/8 X 3/4	1
8	Bottom Frame Side	Mahogany	10 13/16 X 2 X 3/4	2
9	Bottom Frame Front	Mahogany	17 15/16 X 2 X 3/4	1
10	Side	Mahogany	21 3/16 X 10 3/32 X 7/8	2
11	Top Support	Pine	19 3/8 X 5 1/16 X 1	1



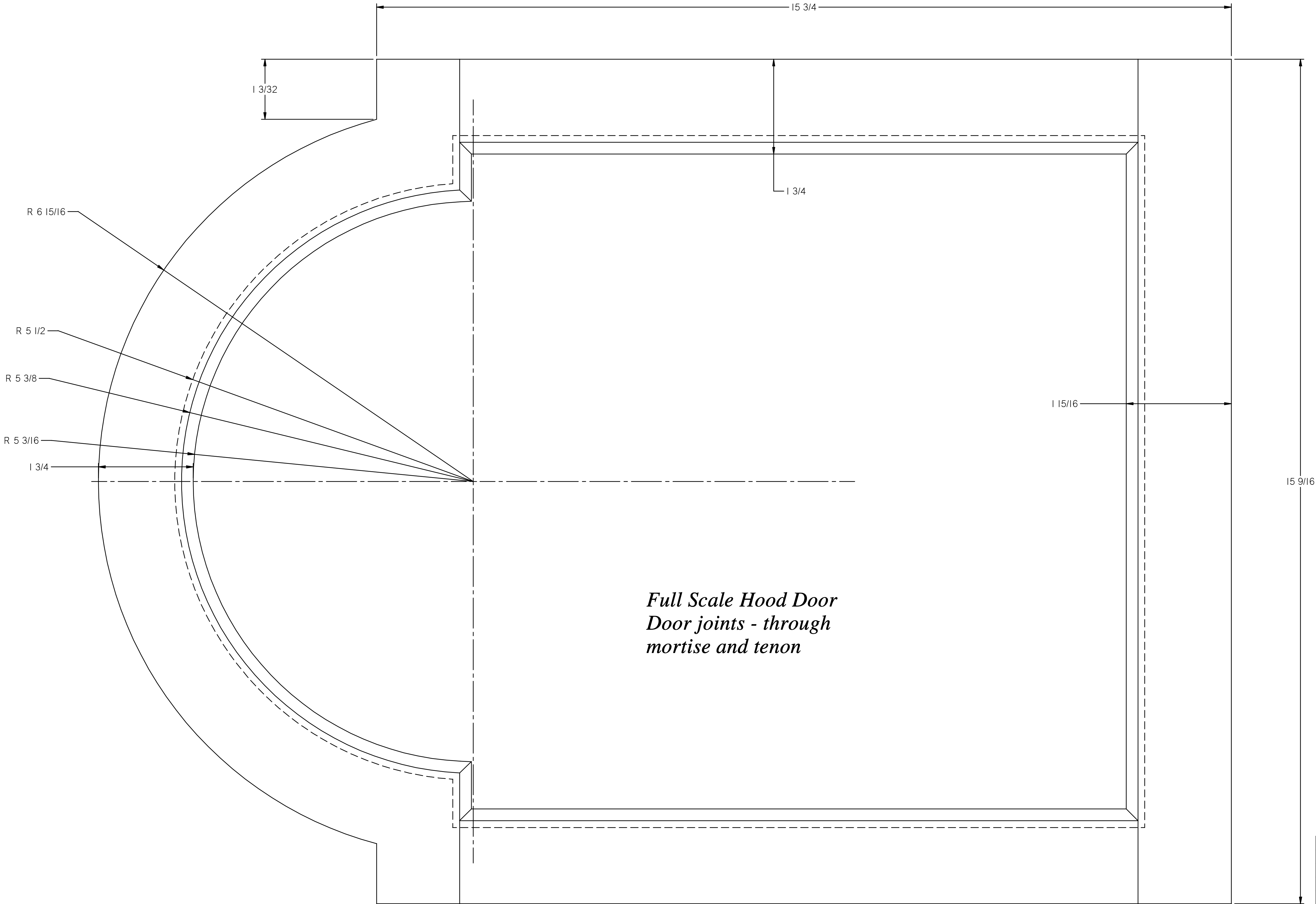
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

	NAME	DATE	SOLID EDGE UGS - The PLM Company	
DRAWN	Ed Stuckey	09/30/05		
CHECKED				
ENG APPR				
MGR APPR			TITLE Newport Tall Case Clock	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX			SIZE C	DWG NO Hood Exploded View
			FILE NAME: Hood dwg Exploded Final.dft	
			SCALE:	WEIGHT: SHEET 1 OF 1

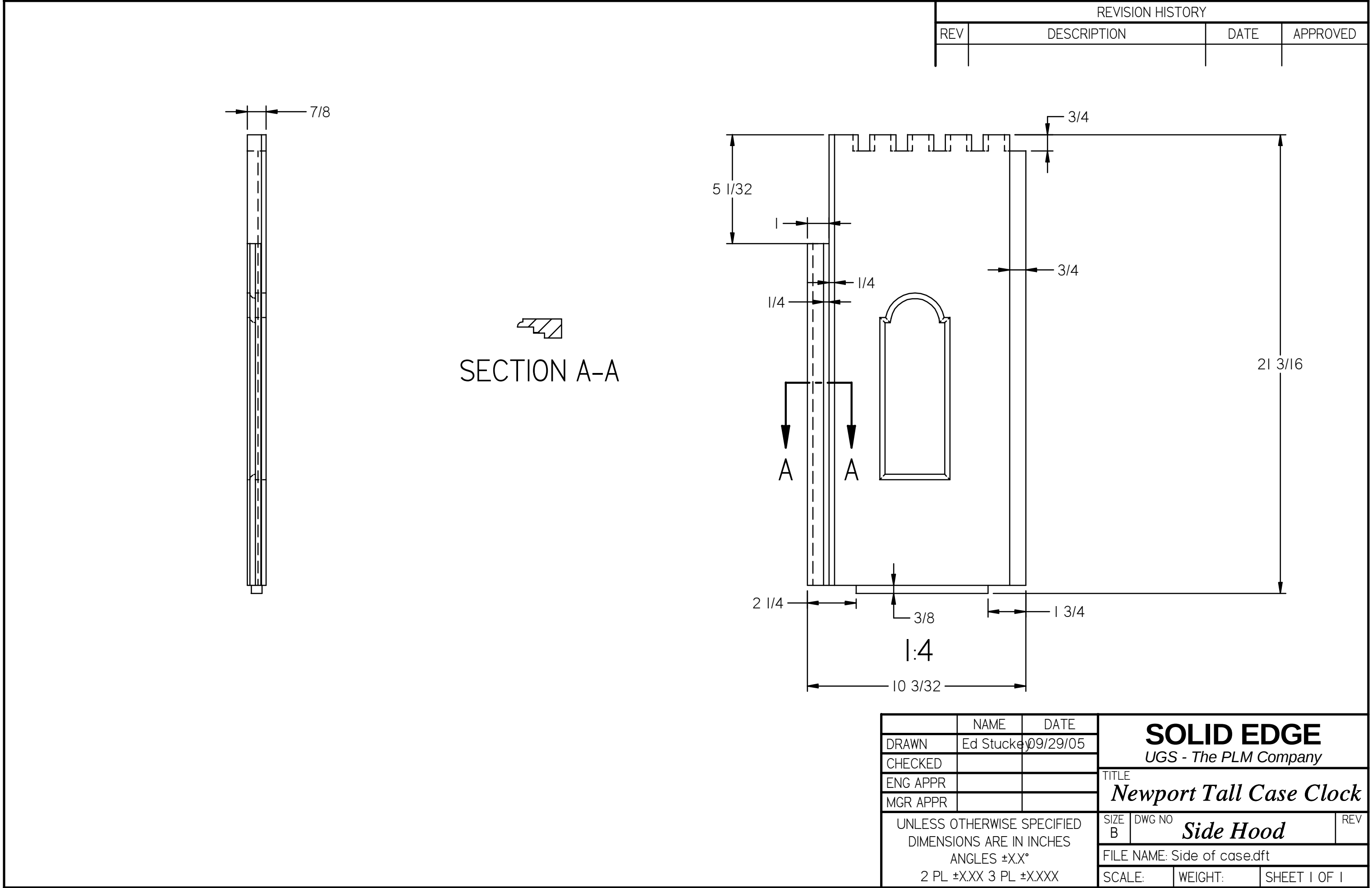
Top Edge tapered 3 deg. for clearance



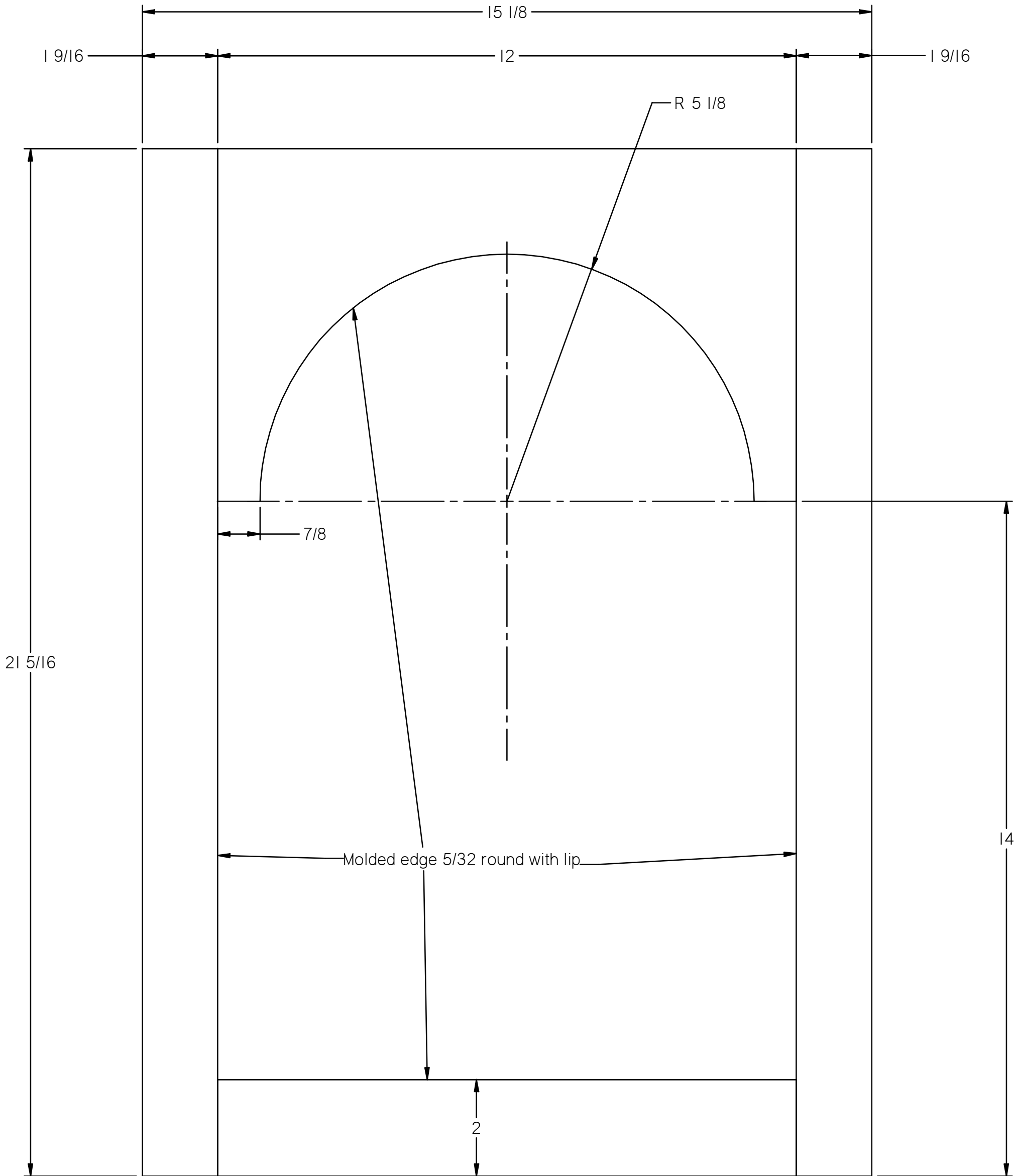
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



	NAME	DATE	SOLID EDGE	
DRAWN	Ed Stuckey	09/29/05	UGS - The PLM Company	
CHECKED			TITLE	
ENG APPR			Newport Tall Case Clock	
MGR APPR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX		SIZE D	DWG NO Hood Door	REV
		FILE NAME: Hood Door Full Scale.dft		
SCALE:		WEIGHT:	SHEET 1 OF 1	



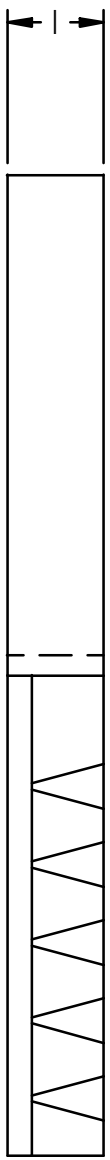
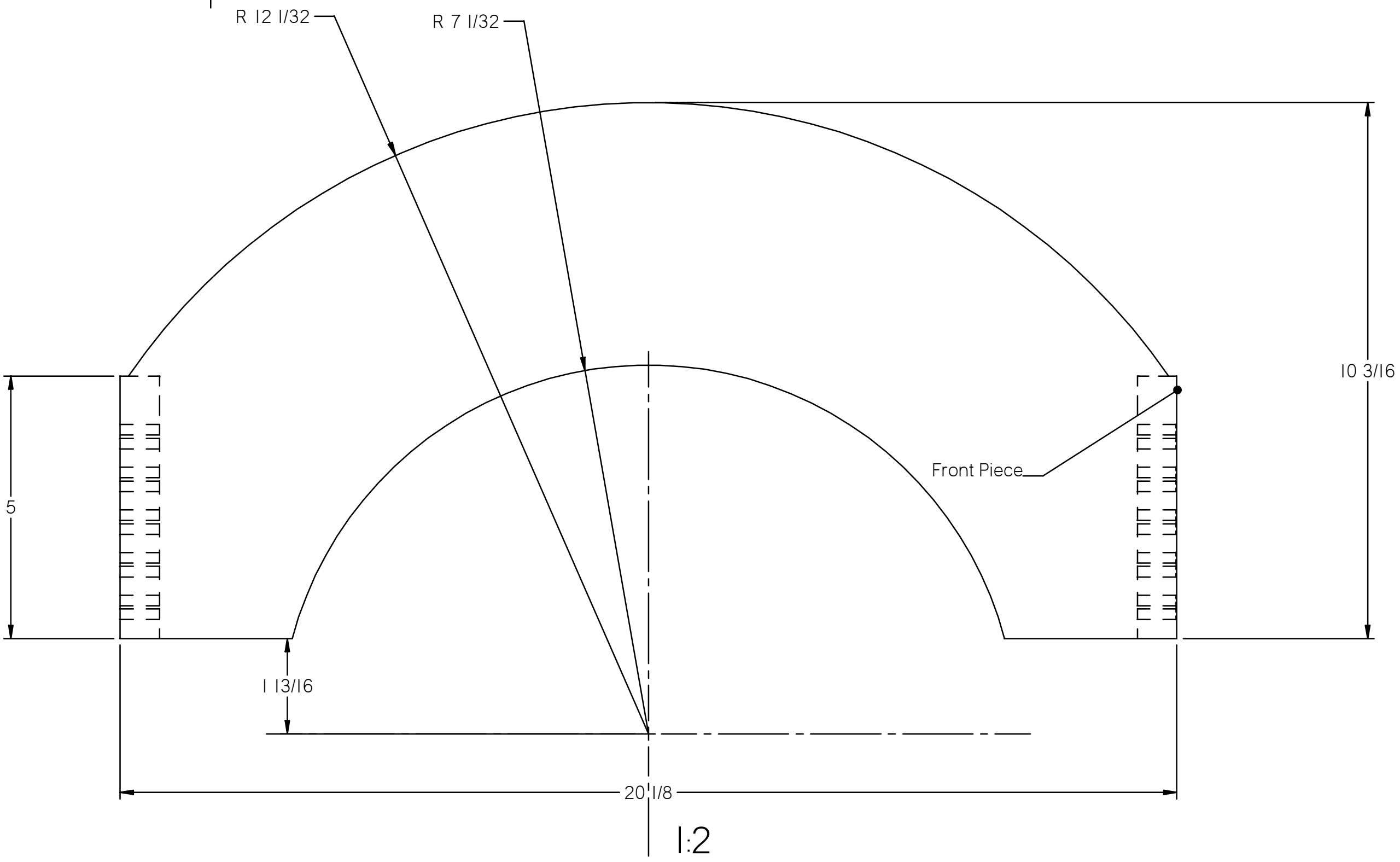
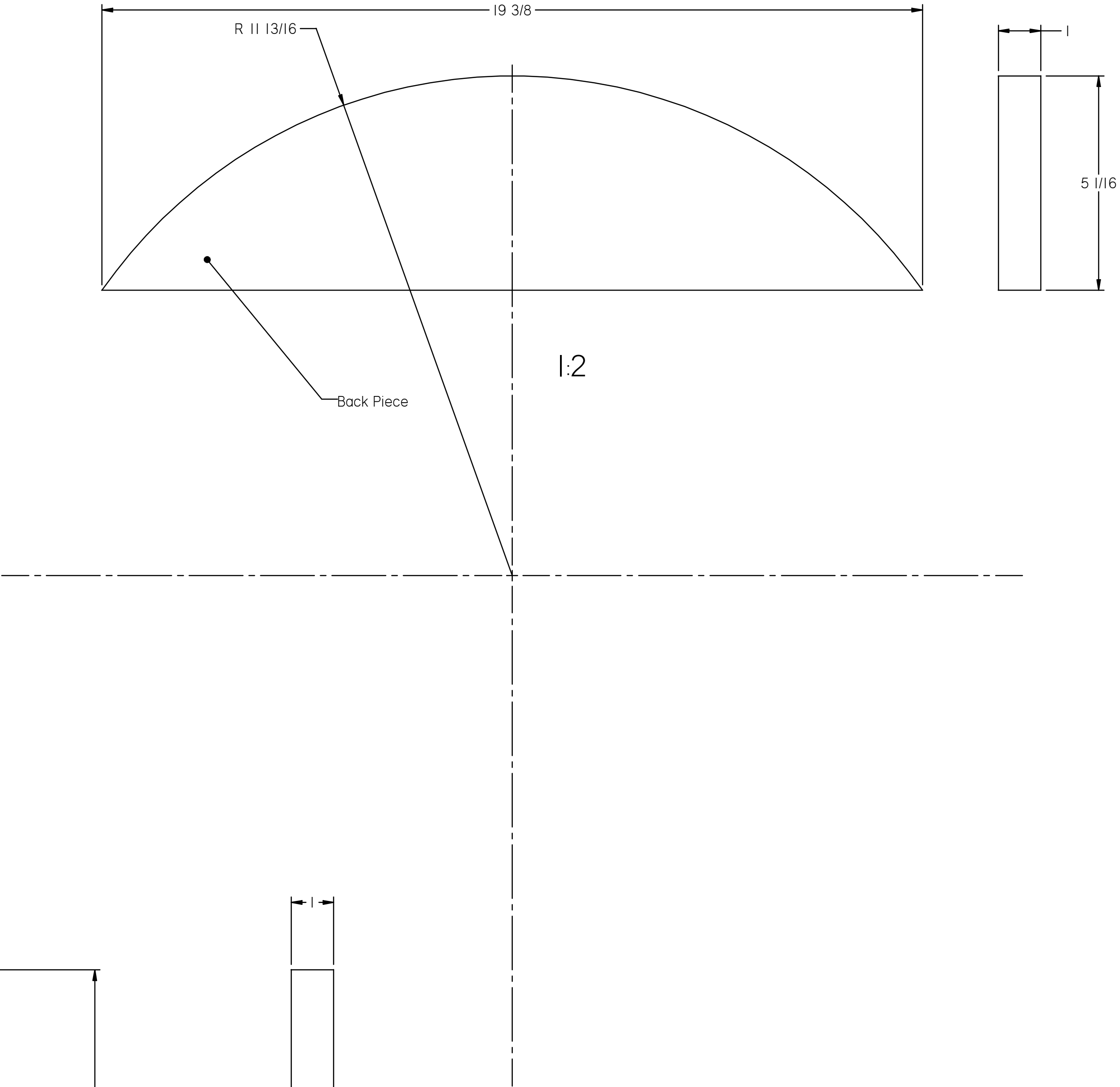
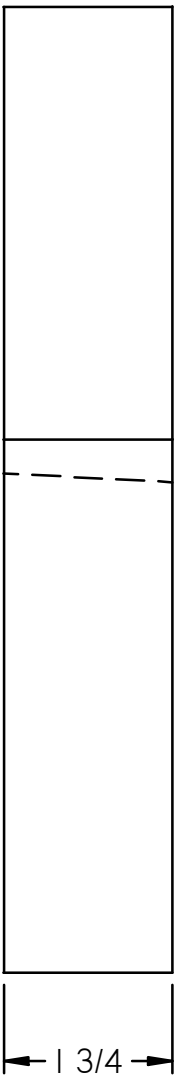
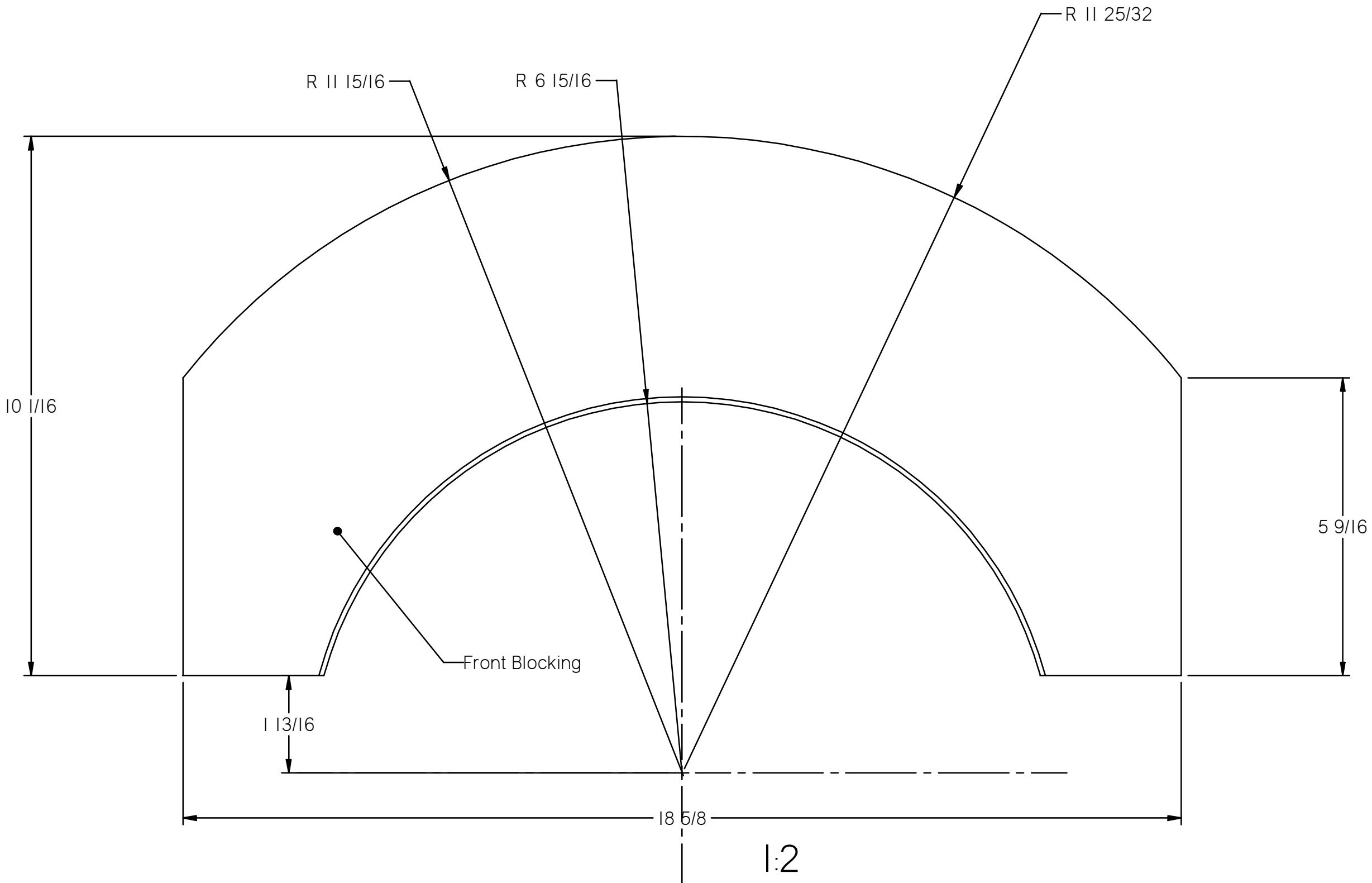
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



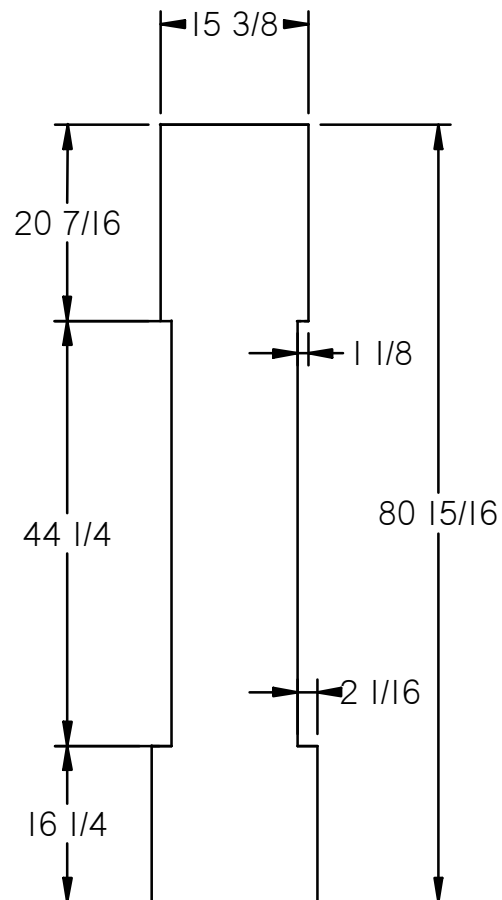
1:2
Dial Frame - Half lap joinery

	NAME	DATE	SOLID EDGE UGS - The PLM Company	
DRAWN	Ed Stuckey	09/29/05		
CHECKED			TITLE	
ENG APPR			<i>Newport Tall Case Clock</i>	
MGR APPR			SIZE C DWG NO <i>Dial Frame</i> REV	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXX			FILE NAME: Dial Frame.dft	
			SCALE:	WEIGHT: SHEET 1 OF 1

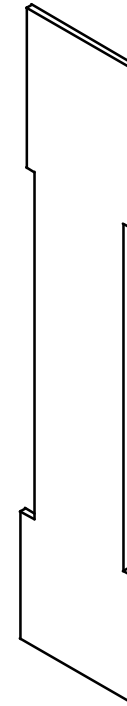
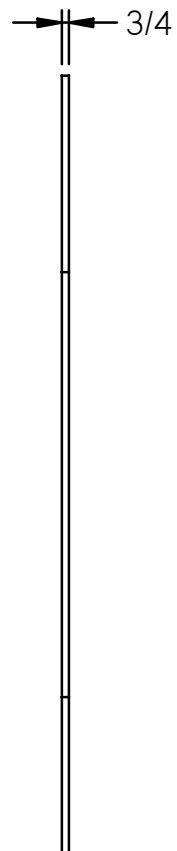
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



	NAME	DATE	SOLID EDGE	
DRAWN	Ed Stuckey	09/29/05	UGS - The PLM Company	
CHECKED			TITLE	
ENG APPR			Newport Tall Case Clock	
MGR APPR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX			SIZE D	DWG NO Blocking
			FILE NAME: Front Blocking.dft	REV
			SCALE:	WEIGHT:
			SHEET 1 OF 1	



Back is nailed to case



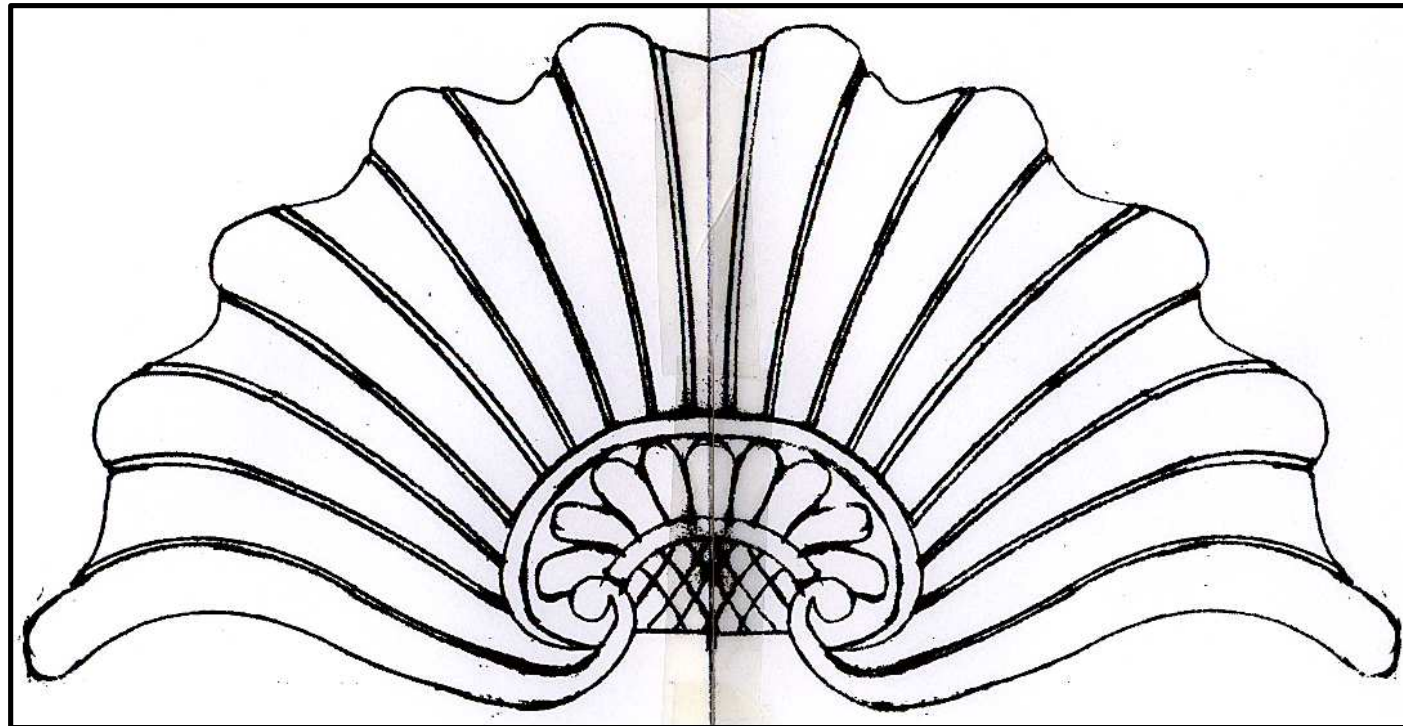
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED

	NAME	DATE	SOLID EDGE UGS - The PLM Company		
DRAWN	Ed Stuckey	09/30/05			
CHECKED			TITLE Newport Tall CAsе Clock		
ENG APPR					
MGR APPR			SIZE A DWG NO Back REV		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX					
			FILE NAME: Back.dft		
			SCALE:	WEIGHT:	SHEET 1 OF 1

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED



7.125

Reference Line
Shell is 7 1/8in wide.

NAME	DATE	SOLID EDGE UGS - The PLM Company TITLE <i>Newport Tall Case Clock</i> SIZE A DWG NO <i>Shell Pattern</i> REV	
DRAWN Ed Stuckey	10/01/05		
CHECKED			
ENG APPR			
MGR APPR		FILE NAME: Shell Pattern.dft SCALE: WEIGHT: SHEET 1 OF 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX			



