

**10th Anniversary!**

**The Best Of**

**SPECIAL COLLECTOR'S  
EDITION!**

Fall 1998

**CREATIVE**  
**Woodworks**  
**& CRAFTS**<sup>®</sup>

The **ULTIMATE**  
Woodcrafting Magazine!

**23**  
**Great**  
**Projects**



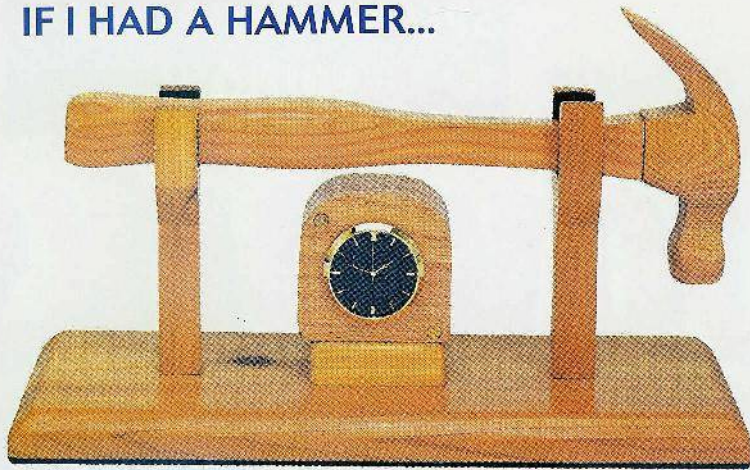
**FULL SIZE**  
**PATTERNS**

\$4.95 U.S.A.      \$5.95 Canada  
Please display until September 22, 1998

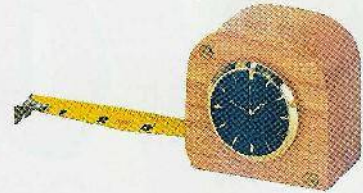


# MORE GREAT OFFERS FROM STEEBAR CORP.

IF I HAD A HAMMER...



Another unique, easy to make project that is a definite conversation piece. The "tape" measure is designed to accommodate a 50 MM (2") insert and a retractable tape. The size: 14"L x 5-1/2"D x 8"H. For full size plans, order #SB-604-P only \$9.95.



## VICTORIA OVAL CLOCK KIT

Our victoria oval pendulum clock kit will be an attractive addition to any decor. Features include: solid oak frame measuring 11"W x 13 1/2"H x 1 3/4" thick, antique style dial, pendulum motor with hands and a real curved oval glass lens. Extremely easy to assemble and finish.

ORDER #VIC-KIT

1+ \$59.95    3+ \$56.95    5+ \$54.95



## MINI-CLOCK PATTERNS

Thirty four mini-clock patterns designed especially for our 36MM (1 7/16") insert clocks. Most will "stand alone" without additional support. The items pictured were crafted from 1/2" oak, but you could also use the scrap wood that accumulates around all shops. All 34 full size patterns, order #34-MINI...only \$9.95.

OUR 88 PAGE COLOR CLOCK MAKERS CATALOG WILL BE INCLUDED FREE WITH ALL ORDERS. THE CATALOG IS AVAILABLE SEPARATELY FOR A \$3.00 DEPOSIT (CREDITED).

SEE OUR OTHER GREAT OFFERS ON PAGES 82 & 83

SHIPPING CHARGES: add 10% shipping to the total, minimum \$5.00. Orders over \$200.00 shipped FREE!!! We accept Visa, Mastercard & Discover.

Send your name, address and telephone number to:

**STEEBAR CORP.** P.O. Box 980 -BC-1, Andover, NJ 07821-0980.

Fax (973) 383-8918    Phone (973) 383-1026

Sub

Sub

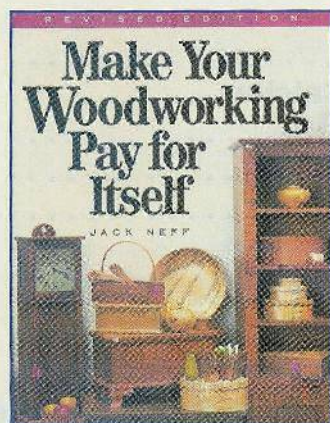
## The Ultimate Dragon...

Another great project!!! Designed to accommodate a 72 MM (2 3/4") insert clock the "Ultimate Dragon" is an enjoyable project to build. The size: approx. 9"W x 15"H. For full size plan, order #SB-601-P only \$8.95.

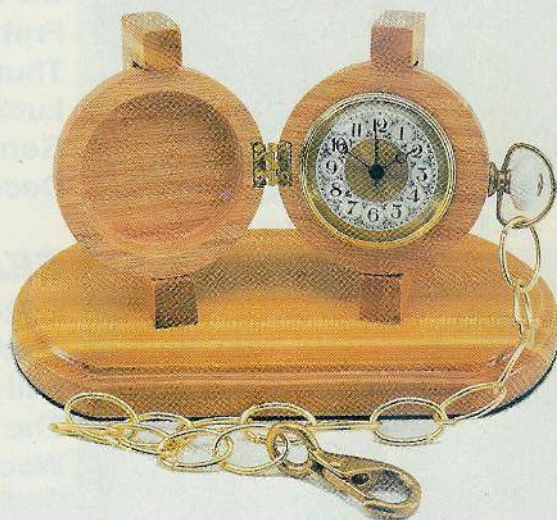


## Pot Belly Stove...

Designed to accommodate a 36 MM (1 7/16) insert clock the project is both attractive & functional as the top portion lifts off to permit storage of small items. The size: approx. 7"W x 9"H. For full size plans, order #SB-602-P only \$8.95.



Maybe you've dreamed of selling your work, or maybe a friend has offered to pay you to make something. How can you move into selling your work without ruining your favorite hobby? That's where this completely revised edition of *Make Your Woodworking Pay for Itself* comes in. Business writer & woodworker Jack Neff shows you the easiest ways to turn your woodworking projects into cash. and the best part is that you can use the extra cash for additional supplies. Instant justification...your hobby pays its own way! Order #BK-152 only \$18.99.



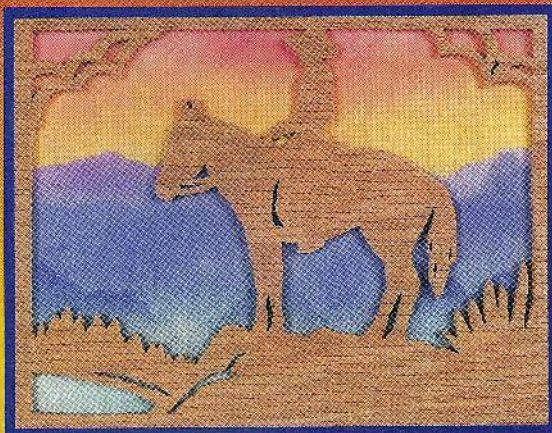
## The Pocket Watch...

Another fun & easy to make project. Designed for a 72 MM (2 3/4") insert clock. The left side will also accommodate a photo, making this a very functional project. Size: approx. 9 1/2"W x 6"H. The full size plans include the design for the display stand. Order #SB-603-P only \$8.95.

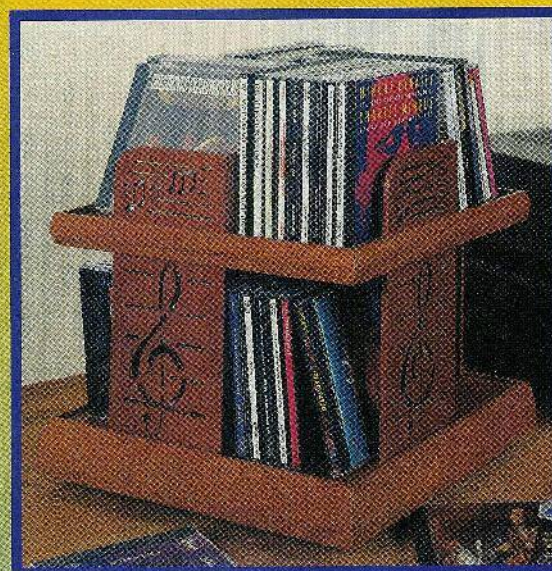
**STEEBAR CORP.**

ORDER TODAY by Fax (973) 383-8918 or Phone (973) 383-1026

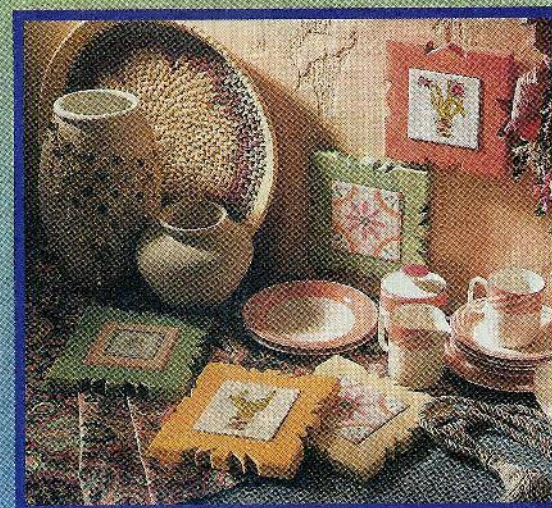
# CREATIVE WOODWORKS & CRAFTS' SPECIAL 10TH ANNIVERSARY EDITION



**Cowboy Silhouette**



**CD Carousel**



**Santa Fe Trivets**

## CONTENTS

### PROJECTS

Thunderbird Box	6
Eagle's Nest Shelf	10
Wooden Suncatchers	14
Laminated Chopping Block	16
Cowboy Silhouette	20
Santa Fe Trivets	24
Monarch of the North	28
Quilt Hanger	29
Dog Pull Toy	32
Routed Boxes	38
Carving Section:	
Chip Carved Box Lid	44
Wayne Barton, Carver	47
Carving Basics	48
Hardwood Ornaments	53
Running Elk Plaque	56
Ocean Plaque	60
Relief Inlay Balloon Scene	62
CD Carousel	68
Fretwork Loon	70
Thunderbird Dream Catcher	72
Lucky Locomotive	74
Gentleman's Tie Rack	75
Decorative Stool	76

### FEATURES

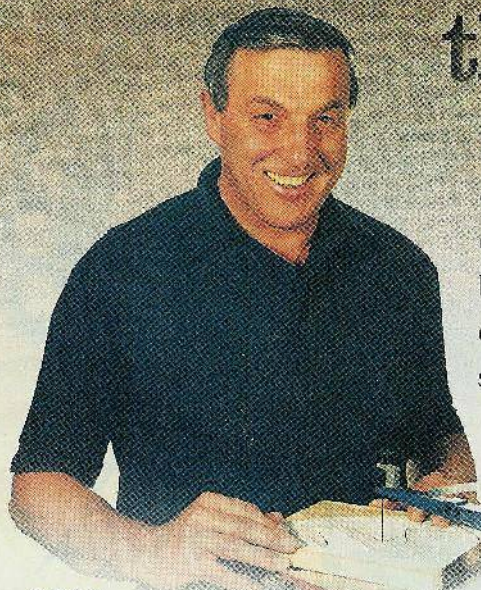
Editorial	9
Confused About Scroll Saw Blades?	34
Full Size Pattern Sections 1, 2 and 3: center pullout	
The Wooden Ships of Benny Basile	78
Wood Market	80

CREATIVE WOODWORKS & CRAFTS • Best of No. 59  
All American Crafts, Inc. 1998.  
ALL RIGHTS RESERVED ON ENTIRE CONTENTS.

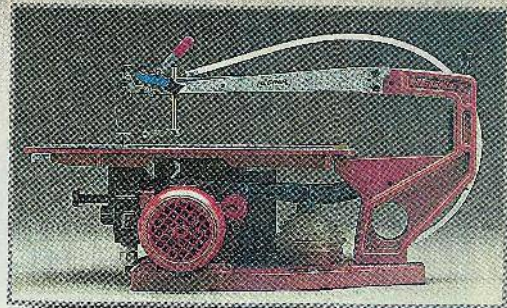
*Creative Woodworks & Crafts*® ISSN 1055-6729, is published eight times a year by All American Crafts, Inc., 243 Newton-Sparta Road, Newton, NJ 07860, U.S.A. All rights reserved on entire contents of magazine. We are not responsible for loss of unsolicited material. We reserve the right to edit and publish correspondence (unless specific commentary and/or name and address are requested to be withheld. Reproduction of editorial or advertising contents in any way whatsoever without the written permission of the Publisher is strictly prohibited. The instructions in this magazine are published in good faith and have been checked for accuracy; however, no warranty, either expressed or implied, is made nor are successful results guaranteed. Periodicals postage paid at Newton, NJ 07860 and at additional mailing offices. Postmaster, Please send address changes to *Creative Woodworks & Crafts*®, P.O. Box 518, Mt. Morris, IL 61054. Subscription Rate \$39.60/5 issues. *Creative Woodworks & Crafts*® is pleased to announce its "Retail Display Allowance Plan," available to retailers interested in earning a display allowance on *Creative Woodworks & Crafts*®. To obtain details and a formal contract, please write our distributor for the United States and Canada: Kable News Company, Inc., 541 Lexington Avenue, New York, NY 10022, or outside the United States and Canada, Worldwide Media Service, Inc., 30 Montgomery Street, 7th floor, Jersey City, NJ 07302.

Printed in U.S.A. by Quad Graphics, Inc.  
Cover Design by Kelly Albertson

# HEGNER Scroll Saws, the Experts' Choice



For over twenty years, HEGNER Scroll Saws have satisfied demanding scrollers like Pat Spielman. Unique, patented design features give you benefits that you'll enjoy every time you scroll; space-saving design, smooth and quiet operation, quick and easy blade changing and unmatched proven



reliability! Look at these HEGNER advantages:

“I have personally owned and enjoyed HEGNER Saws for over twelve years. HEGNER's smooth, quiet performance is only one of it's many unique advantages. Choose a HEGNER and you'll enjoy scrolling the way it's meant to be.”

— Patrick Spielman

America's #1 Woodworking Author and Publisher of Home Workshop Magazine

Home Workshop is published six times a year and is packed with detailed project patterns and instructions, news, tips and techniques, and sources for all your scrolling needs. Subscribe now for only **\$19.95 per year** (6 issues).

If you order a HEGNER saw before August 28, 1998, we will give you a **FREE** one year subscription to Home Workshop Magazine; or, if you are already a subscriber, we will extend your subscription for one year.



**Space-saving design**

**Fast, easy blade changes**

**Unmatched reliability**

**Smooth and quiet performance**

**Superior warranties**

**All cast construction**

**Make the right choice – the expert's choice!**

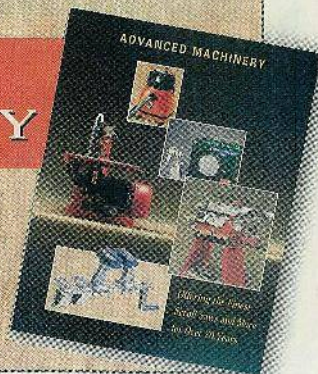
Call or write for your **FREE** Catalog or to order your Home Workshop subscription now.

**1.800.727.6553**

Please Mention Ad 863

**ADVANCED MACHINERY**

**HEGNER**  
**Makes it Better**



# Thunderbird Box

by Dirk Boelman



## SUPPLIES

Tools: scroll saw with No. 7 double tooth blades; table saw (optional); drill with bits; 1" belt sander (optional); needle files or *KD-1 Electrofile*; sidecutters; screwdriver

One piece mirrored *Plexiglas*, 1/8" x 3-1/4" x 5-3/8"

One piece denim, 3-1/4" x 5-3/8"

Cadet Blue felt, approx. 6" x 12"

Four brass flathead screws, 3/8" No. 1 (for attaching mirror)

Two brass hinges, 5/8" x 3/4"

Small finishing nails or wire brads

Sandpaper, various grits

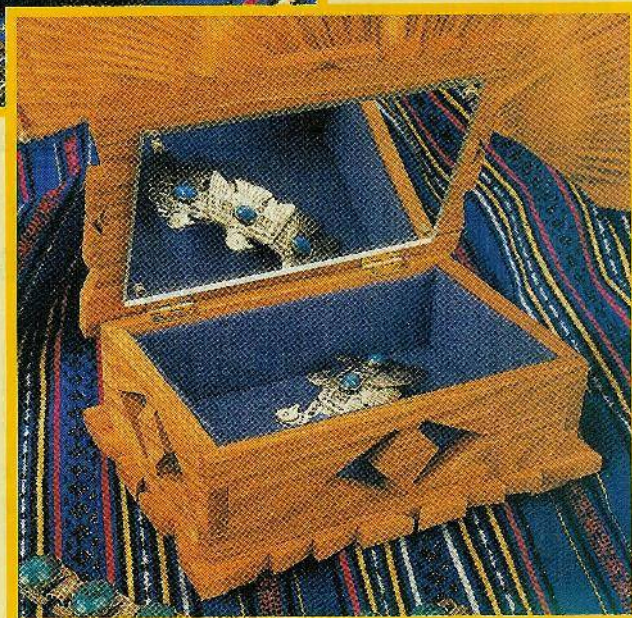
Wood glue

Clamps

Temporary-bond spray adhesive

Finish of choice

\*Available from The Art Factory, P.O. Box 701, 950 Hollman St., Platteville, WI 53818; (800) 566-6394.



The February 1995 edition of *Creative Woodworks & Crafts* was one of our best selling back issues (it also sold out almost immediately). So for the many of you who received letters of apology instead of the back issue you ordered, we present our favorite project from this issue.

## BILL OF MATERIALS

Part	Description	Size in inches	Quantity
Oak:			
A	Sides	1/4 x 1-3/4 x 6-1/8	2
B	Ends	1/4 x 1-3/4 x 4	2
C	Bottom	1/4 x 4-5/8 x 6-5/8	1
D	Lid	1/4 x 4-5/8 x 6-5/8	1
E	Feet	1/4 x 3/4 x 3/4	4

## INSTRUCTIONS

### Adjust patterns and cut the wood

The straight edge on parts A, B, C, and D can be cut with a scroll saw, but a table saw will produce straighter edges.

Adhere the patterns, found in Full Size Pattern Section No. 3, to the wood. **Note:** the outlines of the

# TODAY'S TREND SETTERS... START WITH **RBI** INDUSTRIES!



**Danny Ferrington** makes guitars for Eric Clapton, Eddie Van Halen, Johnny Cash, & Waylon Jennings..... with his RBI Scroll Saw.



**Andy Lucas** claims... "The Hawk Ultra 226 has a really unique cutting style of it's own." "You really need to experience it to believe it!"



Ask RBI about my new catalog!

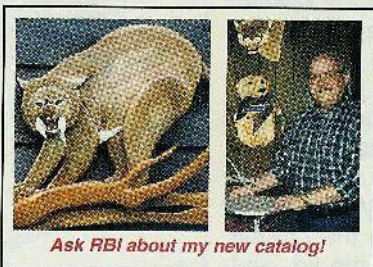
"We certainly love our saws, they are the smoothest scroll saws in the market today!" **Ray & Dan Wilckens** of Wilckens Woodworking



Ask RBI about my new catalog!

"Like the famous bunny my Hawk is still cutting, cutting & cutting after 15 years!"

**Marilyn Carmin**  
Heartland Creations



Ask RBI about my new catalog!

"My Hawk Ultra 226 is built solid as a rock."

**Bob Hlavacek, Sr.**  
Wildlife Intarsia Designs



Ask RBI about my new catalog!

"In my opinion, the RBI Hawk Ultra 220 is a terrific saw."

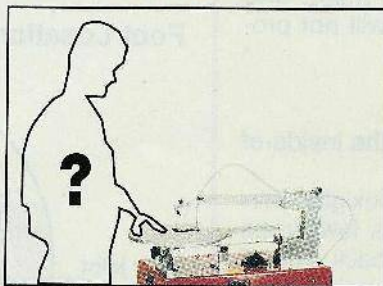
**Dirk Boelman** of the Art Factory

Today's trend setters start with RBI for our reliable scroll saws, superior customer support and famous RBI 5 year commercial rated warranty.

These trend setters love the "Quickest blade change system" in the world and our unique "Visual clock tensioning system." This saves these trend setters valuable time for developing more inspirational & creative patterns for you to enjoy.

It's simple... make the right choice with RBI or be caught in a downward trend.

## THIS COULD BE YOU!



MAKE THE TREND SETTERS CHOICE TODAY!

CALL 1-800-487-2623 FOR YOUR  
FREE FACT KIT TODAY!



Copyright - 1998 rbindustries. All rights reserved.

**rbindustries, inc.**

America's Woodworking Machinery Manufacturer

1801 Vine Street • Harrisonville, MO 64701

HC11

220 Hawk Ultra

bottom (C) and lid (D) are identical, and the two parts can thus be stack-sawn simultaneously; however, the bottom requires no interior cuts, so be sure to separate the two pieces as soon as their outlines have been cut to shape. Cut the parts to shape, remove the patterns from the wood, and sand as needed. Also, cut the two mortises for the hinges in one of the side panels (A)—the notched side panel becomes the rear side panel.

### Cut the Plexiglas and assemble the parts

Cut out the Plexiglas. Sand the mirror's sawn edges until smooth, and leave the protective coating on the mirrored side until the box has been fully assembled.

Referring to the Exploded View Drawing, begin to assemble the box by gluing the finger joint on the sides and ends together. Keeping the corners square, adjust the tabs and slots as needed using needle files, or the KD-1 Electrofile.

Continuing to refer to the Exploded View Drawing, attach the bottom with glue and small finishing nails or wire brads. Next, glue the four feet to the underside of the box as shown in the Foot Location Detail.

Attach the lid to the box with the two  $5/8" \times 3/4"$  brass hinges. First, secure the hinges in the rear side notches, then align the lid and secure it as follows: open both hinges and insert a screw into the outermost hole of each hinge; next, clip off the end of the screws with sidecutters so that only about  $1/8"$  protrudes through the hinge; next, close the hinges so that the screws stand vertically, align the lid, and then apply sufficient downward pressure so that the screws produce indentations on the lid's underside; finally, remove the lid, drill pilot holes at the indentations, and then install the screws. **Note:** there are eight screws that will be driven upward into the lid's underside—four to attach the mirror (after finishing) and four to secure the hinges; check the length of all eight of these screws before installing them, and shorten as needed to ensure that they will not protrude through the lid when installed.

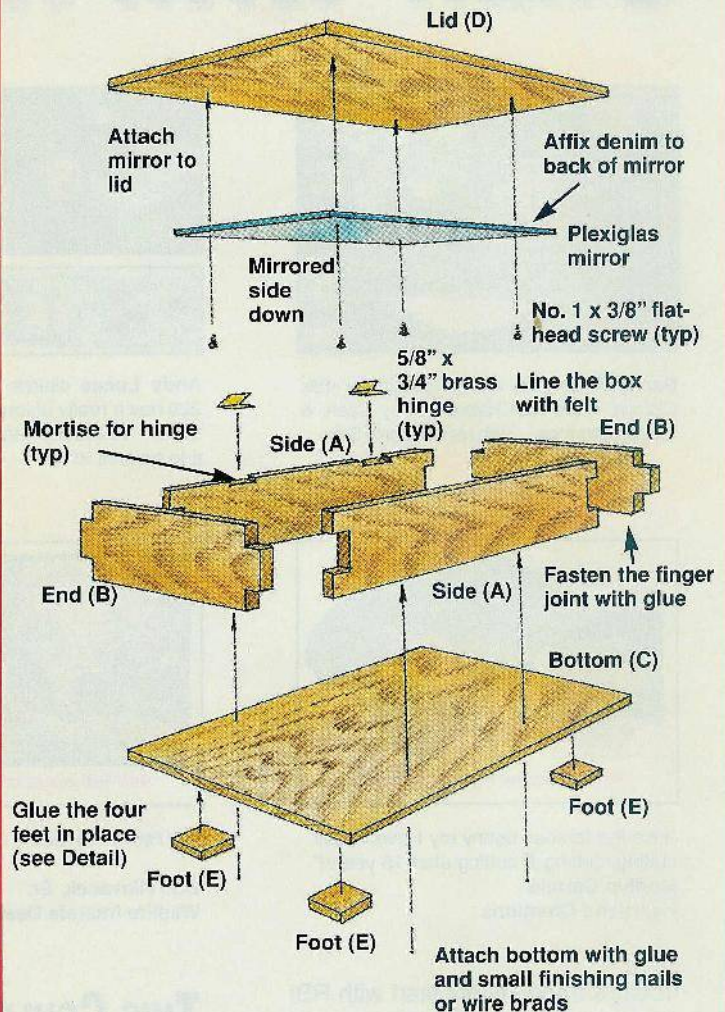
### Finishing touches

Apply an oil finish to all surfaces except the inside of the sides, ends and bottom, and let dry.

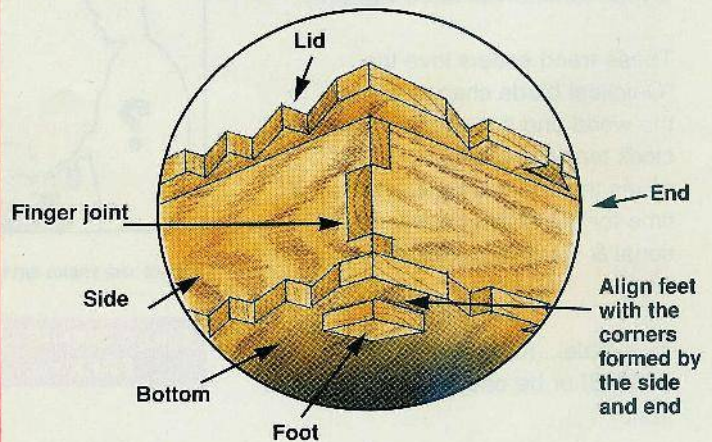
Attach the denim to the back of the Plexiglas mirror—do this by diluting wood glue with a few drops of water and then spreading it over the back side of both the mirror and denim with a small paintbrush. Press the denim against the Plexiglas and let dry. Next, drill and countersink holes through the Plexiglas and denim. Secure the mirror in position with No. 1  $\times 3/8"$  brass flathead screws. Clean the mirror with a soft cloth.

Cut the felt to size, and use diluted wood glue and a small paintbrush to attach it to the inside of the box. Also, glue small squares of felt to the bottoms of the feet to prevent them from scratching your furniture.

### Exploded View Drawing



### Foot Location Detail



Publisher **Jerry Cohen**  
 CEO **Darren S. Cohen**  
 Vice President of Circulation  
 & Marketing **Marie-Claire Macdonald**  
 Editorial Director **Robert A. Becker**  
 Editor **George Ahlers**  
 Associate Editor **Barbara d. Martin**  
 Scrolling Editors **Dirk Boelman**

**Roy King**  
**Scott Kochendorfer**  
**John A. Nelson**  
 Painting Editor **Joanne Lockwood**  
 Carving Editor **Ivan Whillock**  
 Intarsia Editor **Robert J. Hlavacek, Sr.**  
 New Products Editor **Jacob Schulzinger**  
 Techniques Editor **Joseph M. Herrmann**  
 Art Director **Kelly Albertson**  
 Desktop Coordinator **Kathy Morawski**  
 Graphic Designers **Samantha M. Constant**  
**Jennifer J. Wilhelmly**  
**Kate Gubernard**

Photographer **Andy Chen**  
 2nd Photographer **Anthony Spirito**  
 Illustrator **Robert Borkowski**  
 Proofreader **Sarah Mathers-Weaver**  
 Public Relations **Madeline S. Cohen**  
 Reader Service **Tammy Levan**  
 (973) 383-8080

**In House Advertising**  
**Lee Jaworski**  
 (973) 383-1215

**NATIONAL ADVERTISING SALES**  
 ABI Media Group  
 11 Ryerson Place, Suite 201  
 Pompton Plains, NJ 07444  
 (973) 839-6200

Robert Bernbach, Advertising Representatives, Inc.  
 677 Commerce St., Thornwood, NY 10594  
 (914) 769-0051

**RETAILERS**

To carry *Creative Woodworks & Crafts*® in your store,  
 please write:

**All American Crafts, Inc.**  
 243 Newton-Sparta Road  
 Newton, NJ 07860  
 (973) 383-8080

For subscription information, write to:  
*Creative Woodworks & Crafts* ®  
 P.O. Box 518, Mt. Morris, IL 61054  
 1-800-877-5527

Subscription rate: \$39.60/8 issues

If you would like to e-mail us, our address is  
 cwwandc@aol.com

Published by All American Crafts, Inc. 1998

**PRESIDENT** Jerry Cohen  
**TREASURER** George Mavety  
**SECRETARY** Irving Spielberg



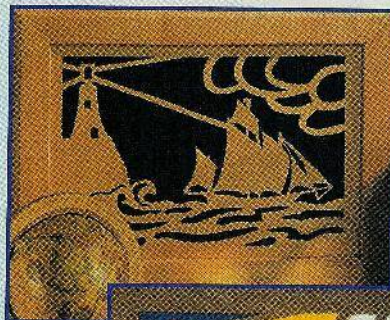
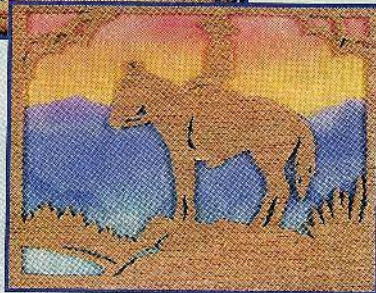
Hobby Industries  
 of America



# Ten Years of Scrolling, Carving, Intarsia, Painting & More!

This issue celebrates ten years of publishing *Creative Woodworks and Crafts*—The Ultimate Woodcrafts Magazine! We've featured quite a few outstanding projects over the last decade, and many of these classics are now out of print and no longer available. In light of that, we thought it would be valuable to bring you as many of our most sought-after projects and features as we could fit between these covers.

However, we decided that just reprinting the articles as they originally appeared wasn't good enough. Instead, we went the extra mile, revising, updating and generally re-edit-



Hard at work or hardly working? Here, Editor George Ahlers and frequent contributor Wes Demarest are busy preparing for some of the new process photography included in this issue.

ing each project, all in an effort to give you more information, improved instructions, along with the requisite plans and patterns.

In some cases, such as the **Running Elk Plaque**, we included never before published painting instructions. For other designs, like the **Cowboy Silhouette** and **Ocean Plaque**, we reworked the entire project, imparting an entirely new look. In all cases, the instructions, art and photography were reviewed and improved wherever necessary. Most importantly, each project now has complete Full Size Patterns. In fact, there are three Pull-Out Pattern Sections in this issue! Now that's cause for celebration.

Everyone on the *Creative Woodworks & Crafts* staff wishes to sincerely thank you for your support over the last ten years.

Until next time, all the best and happy woodcrafting!

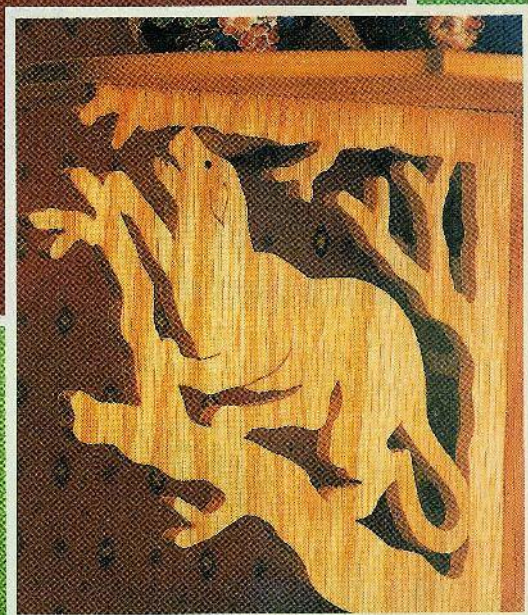
*GEORGE AHLERS*

Classic projects then and now: The Cowboy Silhouette and Ocean Plaque as they originally appeared, along with their updated versions.

# Eagle's Nest Shelf

by Wildwood Designs

This pattern, first printed in our October 1993 issue, remains popular because of its beauty and functionality.



## BILL OF MATERIALS

Part	Description	Size in inches	Quantity
Oak:			
A	Back piece	1/4 x 11 x 13-1/2	1
B	Shelf	1/4 x 5 x 7-1/2	1
C	Bracket	1/4 x 5-1/2 x 5-1/2	1

# WILDWOOD DESIGNS, INC.

Scrollsaw Fretwork Patterns and Supplies



Patterns include  
Clocks

Jewelry Boxes  
Candle Holders

Furniture

Photo/Mirror Frames

Wall Shelves

Silhouettes

Over 300 Patterns  
to choose from

Make \$\$\$

For Your

**FREE CATALOG**

Call or write today

**1-800-470-9090**

**Wildwood Designs, Inc.**

Dept. CW

P.O. Box 676

Richland Center, WI 53581

Your one stop source for

Clock Movements

Scrollsaw Blades

Books

Plywood

Hardwood

Tools &

more . . .

Amaze your  
friends

## SUPPLIES

Tools: scroll saw with No. 5 blades; drill with bits  
 Temporary-bond spray adhesive  
 Sandpaper, assorted grits  
 3/4" wire brads  
 Wood glue  
 Sponge brush  
 Danish oil or finish of choice  
 Sawtooth hanger

Call or write for the best prices on

## OLSON AND MASCOT ("WOODRUNNER") SCROLL SAW BLADES!

RBI Industries, Inc.  
 1801 Vine Street - P.O. Box 369  
 Harrisonville, MO 64701

**1-800-487-2623**

HO24

## BRANDING IRONS...



Show pride in your crafts...permanently "brand" your name, etc. into all your wood products. It'll build confidence and repeat business. The first line reads "HANDCRAFTED BY". Maximum of 20 characters / spaces per line. Please type or print information. Allow minimum 4 weeks for delivery. Our electric branding iron is ready for use in 15 minutes or less.

#EBI-US (US model)

One additional line ..... \$48.50 + \$7.50 postage  
 Two additional lines ..... \$58.50 + \$7.50 postage

#EBI-C (Canadian model)

One additional line ..... \$58.50 + \$7.50 postage  
 Two additional lines ..... \$68.50 + \$7.50 postage

(973) 383-1026 Fax (973) 383-8918  
**STEEBAR CORP.**, P.O. Box 980-EB5,  
 Andover, NJ 07821-0980

## INSTRUCTIONS

### Transfer patterns and cut wood

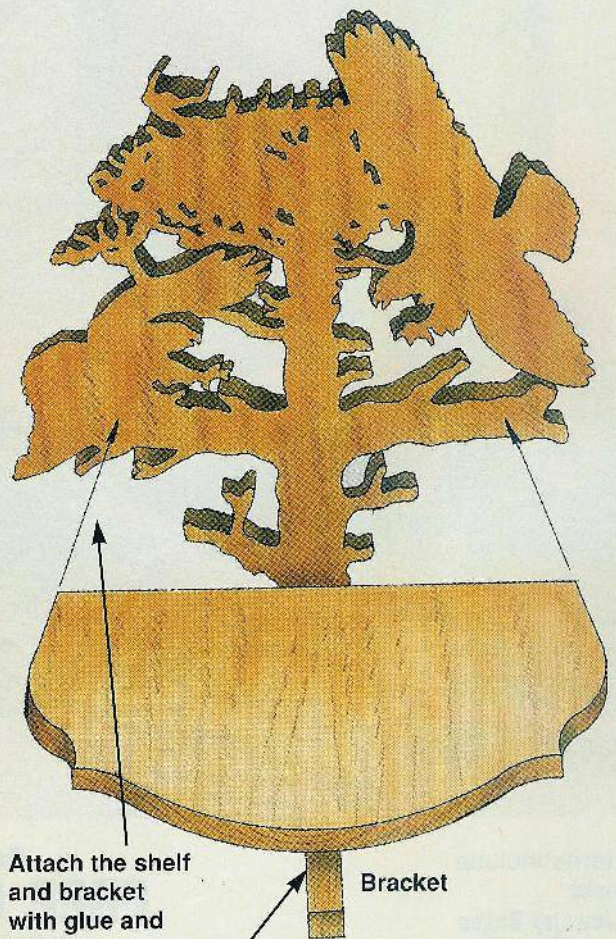
Adhere the patterns, found in Full Size Pattern Section No. 1, to the appropriate stock with temporary-bond spray adhesive. Cut the three components to shape. Remove the patterns from the wood and sand as needed.

### Assemble and finish

Referring to the main photo with inset, as well as the Assembly View Drawing, assemble the three components. Fasten them together with glue and 3/4" brads driven from the rear of the back piece. Allow to dry.

Using a sponge brush, apply finish as per the manufacturer's directions. Attach a sawtooth hanger to the back.

### Assembly View Drawing



Glue the bracket to the shelf  
 (see the inset photo)

# Seyco features The EXCALIBUR

*"User-Friendly Scroll Saw"*

The Scroll Saw Specialists, INC.  
Box 1900 • Rockwall, TX 75087

**"...INSIDE CUTS & BLADE CHANGES ARE EASY"**

Scroll Sawers Everywhere are Praising The Excalibur

"In my opinion, it truly is a dream machine that can tackle any project you could imagine" -  
*Dirk Boelman, Creative Woodworks & Crafts Magazine*

- Scroll Saw & Stand • Quick Clamps • Flip Tensioner •
- Var. spd. • 144 blades • Footswitch •

## COUPON SPECIAL

EX - 19 SVS \$995.00 Regularly \$1295.00

EX - 30 SVS \$1295.00 Regularly \$1595.00

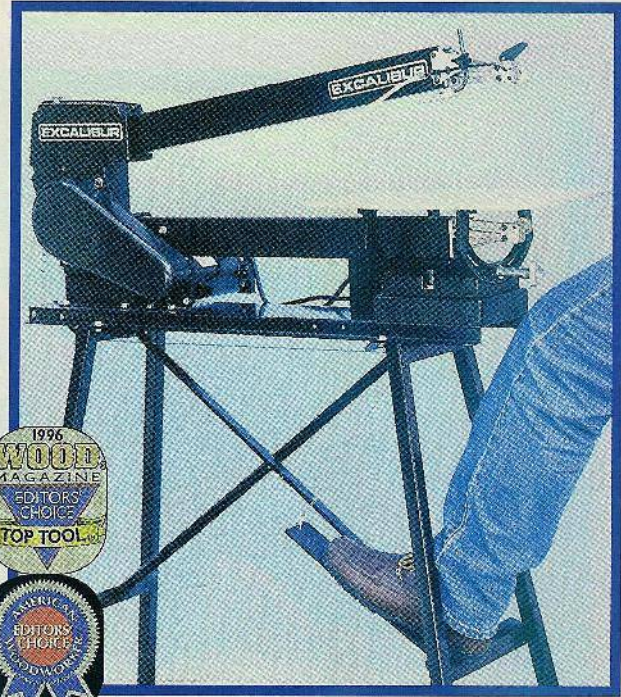
PLUS SHIPPING

Seyco is a Factory-Authorized Service Center For Excalibur Scroll Saws, and *only Seyco mounts the motor onto the saw and calibrates it to the machine.....*

Don't settle for less - order from Seyco!

**CALL TOLL FREE! 1-800-462-3353**

**Local: 972-771-6049 Fax: 972-722-9723**



*Special: FREE Pedal Arm Lift with purchase of EX-30SVS!!*

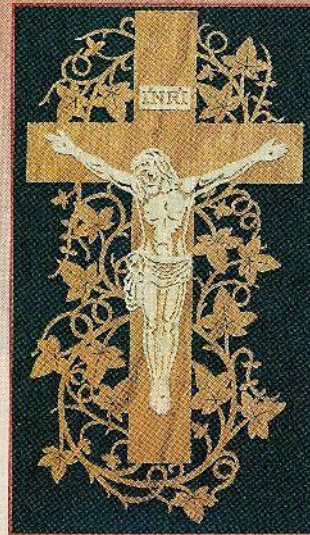
## MAGNIFICENT PATTERNS FROM SEYCO!



### "ANGEL ORNAMENT COLLECTION"

5 Angel Patterns For The Price Of One!

This glorious host of angels includes the famous "Peace Angels" (left) and 4 more angels (below)!  
Pattern No. AF-82  
\$4.00



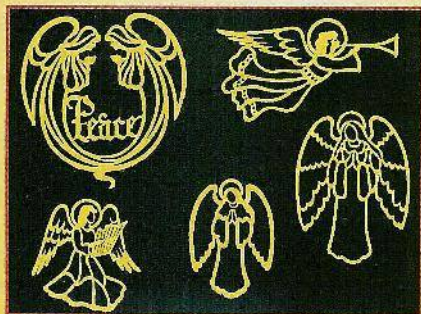
"JESUS of NAZARETH"  
\$5.00 Pattern No. AF-8



6 Religious Ornament Patterns For The Price Of One!

### "RELIGIOUS ORNAMENT COLLECTION"

Pattern No. AF-133  
\$3.00



"GREAT BLUE HERON"  
\$3.00 Pattern No. AF-5



"WOLF"  
\$3.00 Pattern No. AF-21

**SHIPPING CHARGES :**  
\$3.00 per order within US

*Patterns shown are by scroll saw artist Dirk Boelman.*

# Wood Suncatchers

by Sheila Polhemus

Sheila Polhemus has been a frequent contributor over the past year to Creative Woodworks & Crafts. Here is a reprise of her first contribution to the magazine from the August 1992 issue.



## SUPPLIES


Wood: *hardwood of choice*—three pieces, 1/4" x 3-3/4" x 4-1/2"  
Tools: scroll saw with No. 3 blades; drill with bits  
Temporary-bond spray adhesive  
Sandpaper, assorted grits  
Linseed oil and turpentine

## INSTRUCTIONS

Make copies of the patterns, found in Full Size Pattern Section No. 1, and adhere them to the wood with temporary-bond spray adhesive. You can stack saw up to four layers at a time if you have a good quality scroll saw and have made sure that the saw table is set at a

perfect 90 degrees. If you do stack saw, use two nails in the largest waste area spread apart as far as possible, or tape the layers together with masking tape for stability of the workpiece.

Drill blade entry holes where necessary, as well as thread holes for hanging using a 1/16"-Dia. drill bit. Use a No. 69 or smaller drill bit for the eye of the horse. Cut out each ornament, beginning with the interior cuts, working your way to the outside. **Tip:** if you are cutting more than one layer, cut the waste area containing the nails last to prevent the pieces from falling apart before you are finished. After all cuts have been completed, remove the patterns and sand as necessary.

Dip the ornaments into a 1 to 1 mixture of linseed oil and turpentine and allow to dry. 

## SPECIAL OFFER!

Buy both chair & lounge plans & receive table plan FREE



### Cedar Outdoor Chair

Plan No. 51012 Price: \$11.95

### Cedar Chaise Lounge

Plan No. 51016 Price: \$14.95

### Cedar Outdoor Table

Plan No. 51015 Price: \$9.95



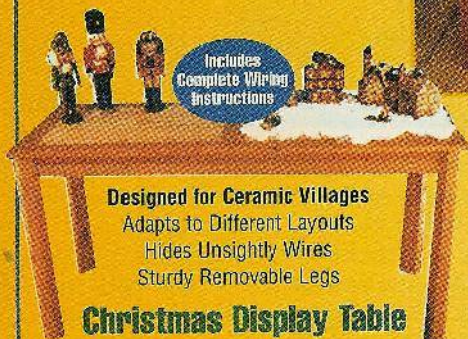
### The Latest in Our Cedar Furniture Series Cedar Outdoor Bench

Plan No. 51013 Price \$13.95

Build with **SQUARE 1**—  
Decorate with **VISIONS™**

LIMITED TIME ONLY

Purchase Both Toy Box & Chair Plans  
& Receive Footstool Plan FREE



Designed for Ceramic Villages  
Adapts to Different Layouts  
Hides Unsightly Wires  
Sturdy Removable Legs

### Christmas Display Table

Plan No. 30005 Price: \$14.95

### Child's First Chair

Plan No. 21002 Price: \$9.95

### Treasure Chest Toy Box

Plan No. 21001 Price: \$12.95

### Child's Footstool

Plan No. 21004 Price: \$7.95



Completed  
projects decorated  
using AirPainter  
Stencil Kit by  
VISIONS™

# Woodworking PLANS



Easy to build projects with:

- Detailed instructions for every step
- Cutting diagrams
- Building tips
- Toll-Free number for questions during construction

## Workshop Projects To Help You Organize

### Properly Store Your Scroll Saw Lumber & Plywood

- Prevent Warping
- Avoid Damage
- Reduce Waste
- Save Time
- Organize Tools

### Thin Lumber Storage & Work-Center

Plan No. 72004  
Price: \$12.95

Expandable  
to Meet all Your  
Scroll Sawing  
Needs



### Roll-Around Lumber Storage

Selected as "Hot Project Find"

by editors of *Creative Woodworks & Crafts*® - April 1997

### Roll-Around Lumber Storage

Plan No. 72002 Price: \$11.95



# Call For Free Catalog!

OF THESE AND OTHER GREAT PROJECTS

## 800-323-0347



Dept. CW8-3  
P.O. Box 345  
Red Hook, NY 12571-0345

NY Residents add 7 1/4 %  
FREE shipping on orders over \$20  
(under \$20, Please add \$2. S&H)  
MasterCard • VISA • Check • Money Order  
VISIT OUR WEBSITE AT: [WWW.SQUARE1WP.COM](http://WWW.SQUARE1WP.COM)

# Laminated Chopping Block

by Joseph M. Herrmann



## SUPPLIES

Wood: various hardwoods of choice—one piece, 3/4" x 5" x 22"; two pieces, 3/4" x 3-1/4" x 22"; one piece 3/4" x 3-1/2" x 22"; two pieces 3/4" x 4" x 22"; scrap wood—one piece 3/4" x 1-1/2" x 14" and one piece 3/4" x 1-1/2" x 12-1/2" (for the assembly jig); plywood—3/4" x 14" x 14" (for the assembly jig)

Tools: band saw; table saw; thickness planer (optional); belt sander; orbital sander; disc sander; router with 45 degree chamfer bit; lathe with roughing gouge, skew, and parting tool; drill press with 3/8" brad point bit; dead-blow mallet

Sandpaper, assorted grits

Wood glue

Clamps

3/8"-Dia. x 12"-long doweling

Boiled linseed oil

Paint thinner

Polyurethane varnish

Nut meat oil (available at health food stores)

*Techniques Editor and long-time contributor Joseph Herrmann shared his secret for making the perfect chopping block in the August 1995 issue.*

## INSTRUCTIONS

### The end of the grain

Our Laminated Chopping Block provides a very durable cutting surface, as cutting takes place on the

end grain of the wood—this is comparable to using the top of a tree stump as a cutting board. The end-grain surface will hold up better than the side grain.

Wood selection is critical to the success of this project. We used six species of the wood—red oak, black walnut, cherry, hard maple, white ash, and sassafras, but any combination of species is acceptable, as long as they include light and dark woods.

Having selected the wood, decide where each species will be placed in the pattern. Carefully look over the pattern, found in Full Size Pattern Section No. 3, to help you to visualize the design. Take into consideration the relative hardness of each kind of wood when planning your design, since placing a very soft wood next to a very hard one will cause problems when the glued-up block is sanded.

### Glue the boards

Dimensioning the lumber is the first step in making the chopping block. The wood needs to be flat and smooth, while each board must end up being exactly the width that is specified. The end result should be nearly square, with the glue joints aligned.

Begin by rough cutting the lumber to width. After the six boards have been dimensioned to their respective widths, arrange them in the proper sequence for gluing. **Tip:** draw a triangular "witness" mark on the surface of each assembly to prevent the boards from being glued out of sequence.

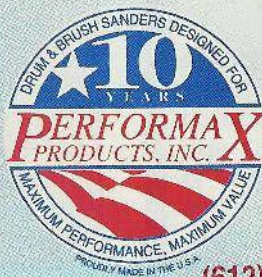
Apply glue and enough clamps to hold the wood together while the glue cures. Remember, you can never use too many clamps.

# ALABASTER

contact: nick kuhlmann, crystal valley stone, p.o. box 1214,  
glenwood springs, co 81602-1214  
phone: 970-947-0006 email: kuhlmann@sopris.net

SCROLL SAW ARTIST EXTRAORDINAIRE  
DIRK BOELMAN HAS THIS TO SAY  
ABOUT PERFORMAX'S 16-32 PLUS  
★★★★★ DRUM SANDER: ★★★★★★

"Absolutely amazing...  
I had no idea what I  
was missing!"  
"A scroll sawyer's  
dream come true"  
"Ideal for transform-  
ing scrap wood into  
beautiful lumber"  
"Recycling wood in this  
fashion can easily  
offset the cost of a Performax in free  
and/or cheap wood for your projects"



Make your  
woodworking the  
pleasure it was  
meant to be. Call  
us today for a free  
brochure and the  
dealer nearest you.

12257 Nicollet Ave. So.  
Burnsville, MN 55337

(612) 895-9922 1-800-334-4910

NEW - READY-TO-WRAP ABRASIVES

**THE SECRET'S OUT! FULL SIZE PATTERNS ARE NOW AVAILABLE  
FOR THE ULTIMATE PROVEN CRAFT SHOW SELLERS: EACH STATE  
OF THE U.S.A. SCROLLED IN EXQUISITE DETAIL!**

THERE IS AN INDIVIDUAL PATTERN FOR EACH OF THE 50 STATES; HERE ARE JUST A FEW SAMPLES:



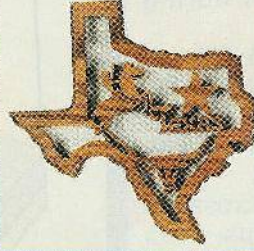
**California**  
(Pattern No.S10051)



**Minnesota**  
(Pattern No.S10230)



**Illinois**  
(Pattern No.S10131)



**Texas**  
(Pattern No.S10430)



**Wisconsin**  
(Pattern No.S10490)

**Florida**  
(Pattern No.S10091)



**Pennsylvania**  
(Pattern No.S10380)



**ALL PATTERNS \$6.00 EACH PLUS S&H**  
**SPECIAL: ORDER ALL 50 STATES (\$300) AND RECEIVE**  
**13 FREE PATTERNS** (Alternate versions of individual states,  
including 2 Alt. MO., 1 Alt. OH., 1 Alt. NE.,  
1 Alt. TX., 1 Alt. IA., 1 Alt. AR., 1 Alt. CA., 1 Alt. FL.,  
1 Alt. GA., 1 Alt. LA., 1 Alt. IL., 1 Alt. IN).

To Order: Specify which patterns you want, and send check or money order payable to **RUSSWOOD DESIGNS**, 722 G Ave. NW, Cedar Rapids, Iowa 52405. IA residents add 5% sales tax. For more information (evenings) call (319)365-8794. Shipping & handling charges: Add \$1.00 per pattern (\$4.00 maximum). Canadian orders may be subject to customs taxes/duties. For a catalog featuring many other great patterns you can buy, please send \$2.00 (credited toward first purchase) FREE catalog with order.

### Glue the leg stock

While the glue on the block is drying, make the turning stock for the legs. We used the scrap stock that was produced when the wood was dimensioned. Cut, glue, and clamp together sufficient stock for the legs.

### Crosscut the boards

Referring to **Fig. 1**, crosscut the individual strips from the main boards to a uniform width of 2-1/4". A carbide-tipped blade will provide the best cut and will help eliminate torn end grain, which is difficult to sand.

### Make the jig

Construct a simple jig to use for the final assembly (see **Fig. 2**). The jig consists of a piece of 3/4" plywood measuring 14" x 14" to which you attach two pieces of scrap wood to produce a right angle corner. This jig is used to insure that the cross cut strips do not slip out of alignment when pressure is applied to the clamps. Properly aligning the individual pieces is essential to ease the rough sanding process.

### Glue the strips

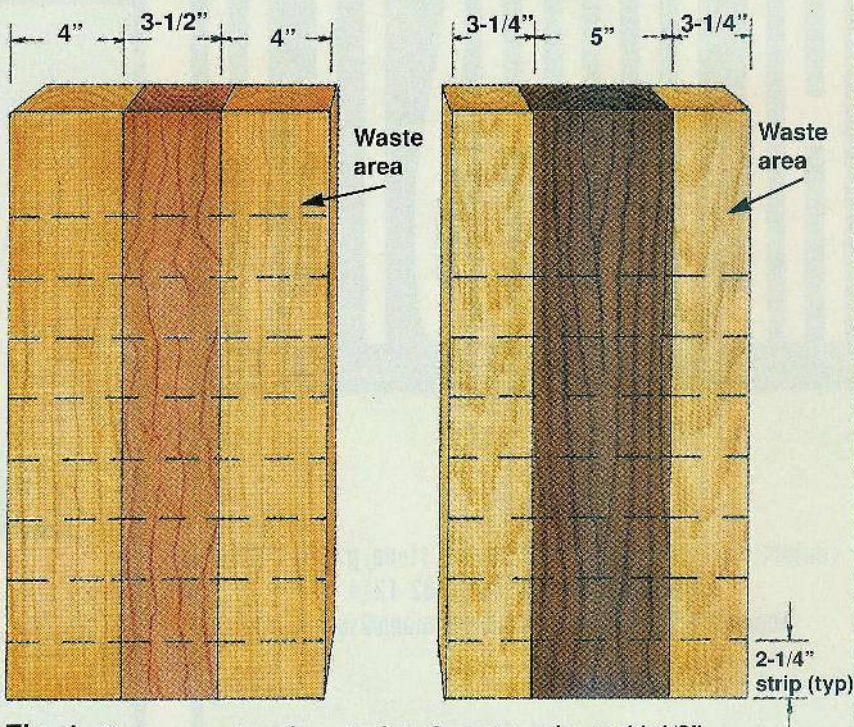
Arrange the strips in their proper pattern for gluing. Again, draw a triangular "witness" mark on the arrangement to help keep everything in proper position during gluing.

Spread glue evenly on the strips, place the glued-up strips into the jig, and align the witness mark. Use a mallet and board to force any recalcitrant strips into alignment.

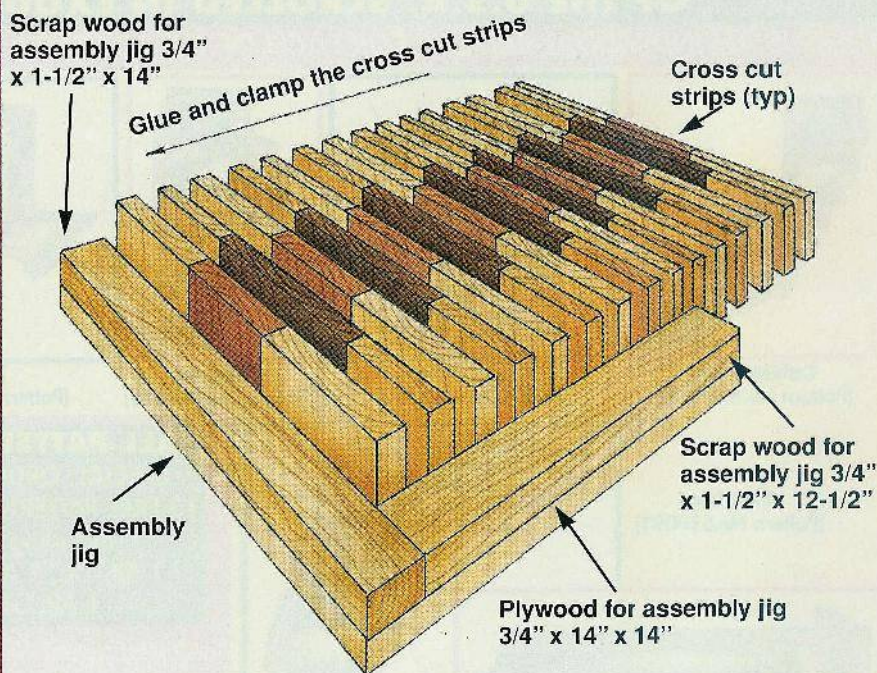
Place two pipe clamps across the block to secure the strips—this allows the block to be removed from the jig. Next, place additional clamps on the block to assure that the ends of the strips are clamped tightly together. Again, you can't use too many clamps!

Once the glue has cured, scrape off any excess that was squeezed out during clamping. Clean off as much glue as possible, as this will reduce wear and tear on the abrasive during the sanding process.

Sand the block with a belt sander, using successively finer abrasive belts—start with 60 grit



**Fig. 1.** Glue up contrasting stock to form two pieces 11-1/2"-wide x 22"-long, then cross cut them into 2-1/4"-long strips.



**Fig. 2.** Arrange the cross cut strips on the assembly jig and glue together.

and finish with 150 grit. Next, use an orbital sander with a 150 grit disc to finish sand the block.

Make sure that all edges are flush and square. Rout a 45 degree chamfer on the four upper edges of the chopping block. Sand the chamfer with a sanding block.

### Turn and attach the legs

Mark the drill centers for each of the four dowel pins which will hold the legs to the chopping block (see Plan View Drawings found in Full Size Pattern Section No. 3). Bore a 1"-deep hole (on the bottom of the block) with a 3/8" brad point bit on these centers.

Begin turning the legs by roughing the blank into a cylinder with a large roughing gouge. Each individual leg is blocked out with a parting tool, while a skew is used to make the tapers.

Once turned to specified dimensions (see Plan View Drawings), sand the legs while still on the lathe.

Remove the four legs from the lathe and cut them

apart with the band saw. Locate the centers of the top portion of the legs and drill them with a 3/8" brad point bit. This hole will receive the dowel pin which will connect each leg to the body of the chopping block. **Note:** be careful while drilling the legs; don't allow them to catch and rotate during the drilling process.

Attach the legs to the bottom of the chopping block with the 3/8" doweling (see Fig. 3).

### Finish

Begin the finishing process by applying a solution of boiled linseed oil cut one-third with paint thinner to the surface below the chamfer (the cutting surface will be finished differently). Next, apply at least two coats of polyurethane varnish to this same area, sanding lightly between coats.


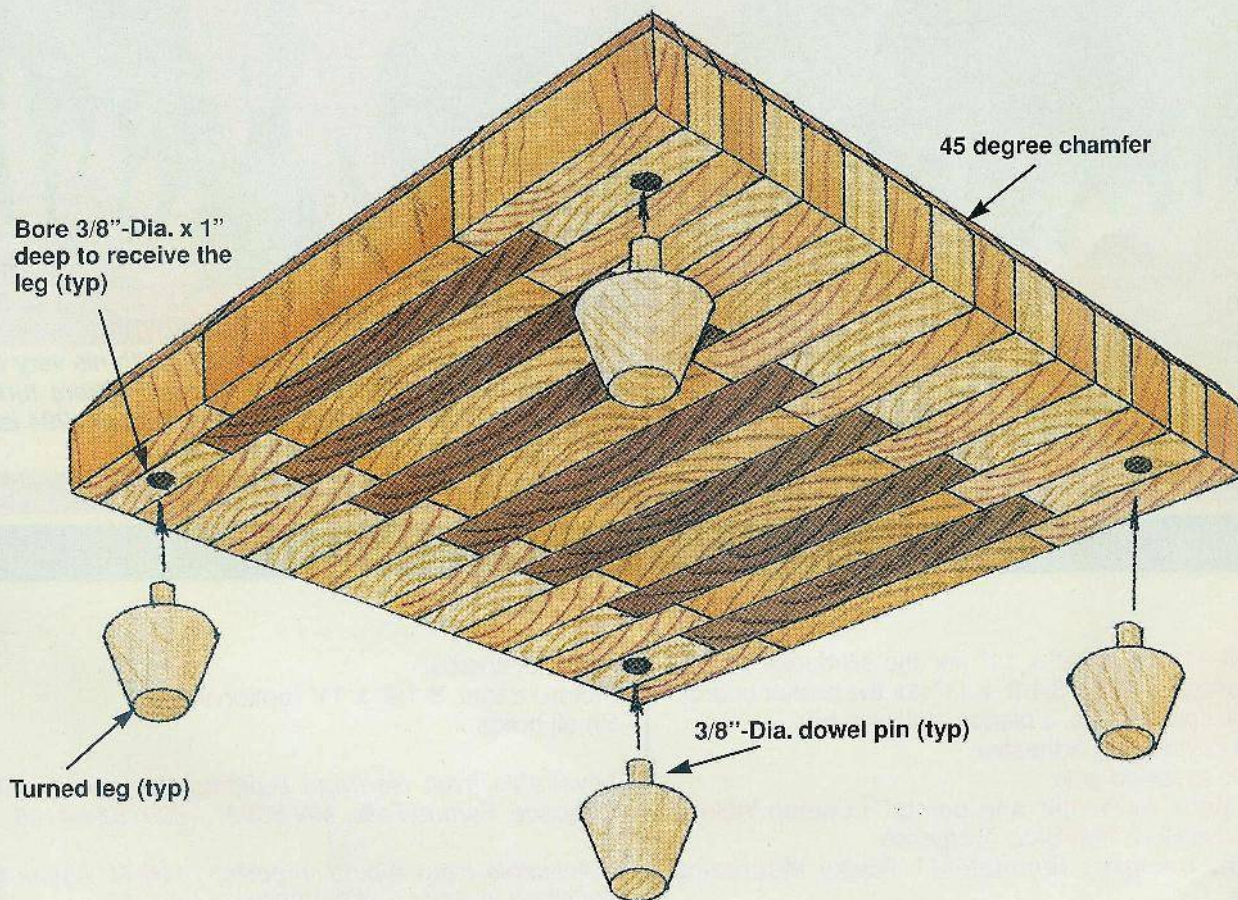
Liberal apply nut meat oil to the top surface of the chopping block, allow it to soak in, and reapply. Two coats should be sufficient. 

Fig. 3. Attach the legs to the bottom of the chopping block.

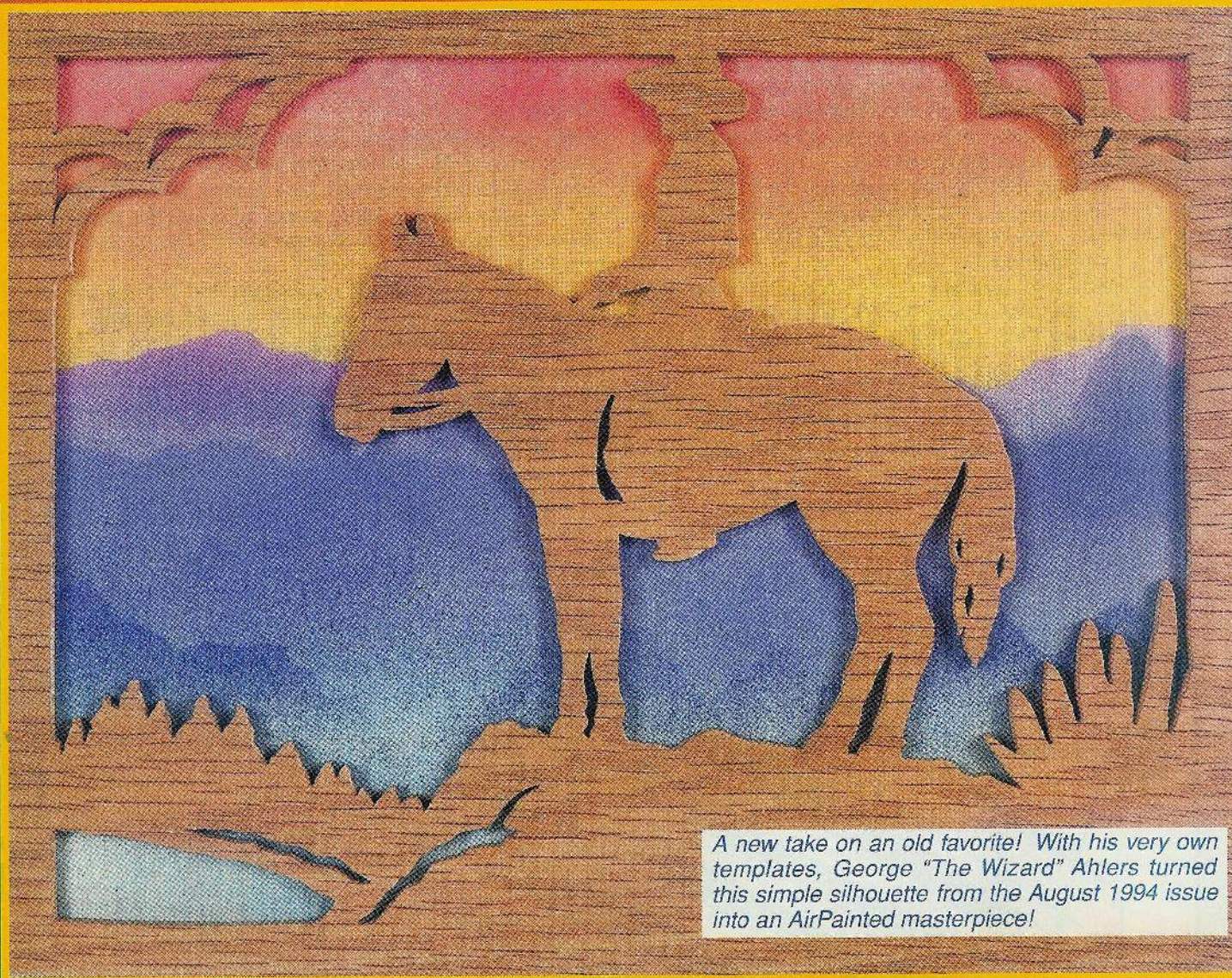


# COWBOY SILHOUETTE

by Wildwood Designs

sawn by Wes Demarest

background by "The Wizard"



A new take on an old favorite! With his very own templates, George "The Wizard" Ahlers turned this simple silhouette from the August 1994 issue into an AirPainted masterpiece!

## SUPPLIES

Wood: oak\*—1/4" x 8-1/2" x 11" (for the silhouette); Baltic birch plywood\*—1/8" x 8-1/2" x 11" (for the backer board)

Tools: scroll saw with No. 5 blades; drill with bits

Temporary-bond spray adhesive

Sandpaper, assorted grits

Testors Visions AirPainter and paints\*\*: Lemon Yellow; Purple; Real Red; True Blue; Turquoise

The Wizard Designer Templates\*\*: Rocky Mountains Template

Finish of choice

Picture frame, 8-1/2" x 11" (optional)

Small brads

\*Available from Heritage Building Specialties, 205 N. Cascade, Fergus Falls, MN 56537, (800) 524-4148.

\*\*Available from Alpine Imports, 7106 N. Alpine Road, Rockford, IL 61111, (800) 654-6114 ext. 321.

# AirPainting Makes Your Projects Soar

With Visions AirPainter kits, you have everything you need to turn pieces of wood into pieces of art—fast and easy. The secret is the AirPainter itself. This revolutionary system paints things a brush can't, including gradient colors and shadow effects. The AirPainter works with propellant or an air compressor, it makes color changes quick and simple, and all you need for cleanup is soap and water.



#### Basic Color Kit - \$29.95

- AirPainter with Propellant
- 12 Assorted Colors
- Mixing Bottles
- FREE Video

To Order Call Alpine Imports  
**1-800-654-6114**

These complete AirPainter kits, available only through this special offer, are the fast, easy way to spray dramatic and brushless designs, faux finishes, and remarkably realistic Intarsia effects on wood furniture, wall hangings, floors, walls and much more.



#### Deluxe Workshop Kit - \$199.95

- AirPainter with Propellant
- 18 Assorted Colors
- 6 Mixing Bottles and 6 Quick Connect Caps
- #8883 Compressor
- FREE Video
- FREE Eagle and Woods Painting Template



## VISIONS™

## INSTRUCTIONS

### Transfer pattern and cut wood

Adhere the pattern, found in Full Size Pattern Section No. 2, to the wood. Cut the pattern to shape, beginning with the innermost cuts and working your way out. Remove the pattern from the wood and sand as needed.

Apply finish of choice to the silhouette and let dry.

### AirPainting The Background— Beyond blending color!

Anyone can create dynamic backgrounds with the new Wizard Designer Templates! Use the Rocky Mountain template, along with the Visions AirPainter, to produce the awesome background shown here. Start by spray-

ing a band of Turquoise along the bottom of the backer, then spray a band of Purple adjacent to that (see Fig. 1). Using the template as a loose mask, spray the mountain peaks in the foreground with True Blue (see Fig. 2). Spray a small amount of paint along the edge of the template, then reposition it and spray some more, thus imparting an illusion of depth.

Continuing to use the template as a loose mask, cover the purple band (see Fig. 3) and spray along the edge with Lemon Yellow. Apply enough paint so that it will dry opaque, but be careful not to over spray.

Finally, mist a small amount of Real Red along the top of the backer board.

Affix the backer board to the rear of the cut piece and then frame if desired, securing the assembly into the frame with small brads.



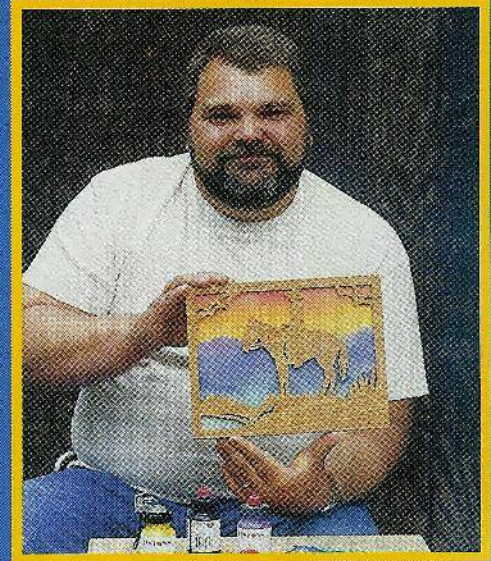
Fig. 1. Spray a band of Purple adjacent to the Turquoise.



Fig. 2. Using the Rocky Mountain template as a loose mask, add the mountain peaks to the foreground.

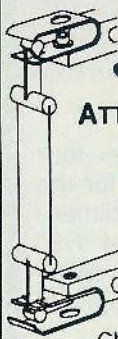


Fig. 3. Mask off the purple mountains with the template and apply a fairly heavy coat of Lemon Yellow.



Anyone can create a dynamic background with the Visions AirPainter and Wizard Designer Templates!

*Sand* **INCREDIBLY FAST** *Scroll Saw!*  
WITH YOUR



# SCROLL SANDER™

ATTACHES TO YOUR SCROLL SAW LIKE A BLADE

SANDS EDGES OF EVERY PROJECT IN A FRACTION OF THE TIME REQUIRED FOR HAND SANDING

Threads Quickly Through Small Interior Cuts  
Removes Feathering, Bumps, Burn Marks & Gouges  
Corrects Wandering from Cutting Line

Each ScrollSander™ Lasts Many Hours

Choose 1/2" or 1/4" Width and Grits: 80,120,180,220,320  
Order Pin-end or Pin-less Please Specify Scroll Saw Model

Try Our Combination Packs: **\$6.95/4 Sanders**

Pin-end or Pin-less Versions Available (+\$2.95 Shipping & Handling Per Order)

1/2" Combination Packs include: 1 each of 80, 120, 180, 220 Grits

1/4" Combination Packs include: 1 each of 120, 180, 220, 320 Grits

## Wildlife of Our National Parks

### Scroll Saw Pattern Books

by *Ellen Crawford-Adams*

National Parks & Wildlife Art Galleries

Have Sold Thousands of These Figures

Includes Scroll Saw Tips

You'll Use on Everything You Make

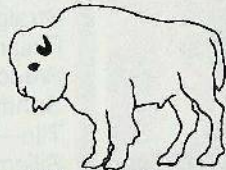
Vol. 1: **\$8.95** Vol. 2: **\$9.95**

(+\$2.95 Shipping & Handling Per Order)

(Order with ScrollSander™ and pay just one S&H)

Great Prices on

Olson® Scroll Saw Blades, Too!



### ScrollSander™

P.O. Box 1086, Dept. CWC

Verdi, NV 89439

or FAX to 702-345-1663

WWW.SCROLLSANDER.COM

VISA/MasterCard ORDER TODAY! 702-345-1660 PT

## WE STOCK THE COMPLETE LINE OF VISIONS PRODUCTS!

### BUY NEW COLORS FOR YOUR AIRPAINTING SYSTEM!

Choose From:

- \* 45 Opaque Colors
- \* 19 Tints
- \* 7 Stains & Sealer



Here are just a few of the quality VISIONS accessories you can buy:



Propellant



Mixing Bottles



Quick-Connect Caps

ASK ABOUT OUR NEW "WIZARD TEMPLATES"!

**FAST SERVICE! ORDER TOLL FREE**

**1-800-654-6114 (ext. 321)**

or write to: **ALPINE IMPORT**

7106 N. Alpine Road, Rockford, IL 61111

e-mail: [alpineimpt@aol.com](mailto:alpineimpt@aol.com)

# Scroll Saw News

Scroll Saw News is the only entertaining, informative, and educational Newsletter that has it all. If you are an accomplished Scroll Sawyer, or don't yet own a Scroll Saw, Scroll Saw News (a Quarterly Newsletter), is the perfect choice to keep you in touch with the Scroll Saw Industry.

Each issue features entertaining articles and news, along with expert tips and advice from the top sawyers in the business. Also, included for your enjoyment are Full-Sized patterns and much, much more. **Come Join Us TODAY!**

**Happy Scrolling....**

**BONUS.....Order your subscription of Scroll Saw News and receive 5 Exclusive "Wooden Basket" Patterns Free\*... (a \$10.95 value) along with your First Newsletter, and your satisfaction is, of course, Guaranteed!**



\*Please Allow 4-6 weeks for delivery.

\*Make checks payable to Scroll Saw News.

\*Outside U.S. - please add \$9.00 for shipping and handling.



These 5 Patterns FREE With Your Subscription!!!

**Ordering is Easy!** For a One Year Subscription, Send Check, Money Order, or Credit Card for **\$12.95\*** (U.S. Funds Only)

To: **Scroll Saw News**

**9033 S. Nashville Box W-2  
Oak Lawn, IL. 60453**

Or Fax your Order to: # 1-708-233-9677

# Santa Fe Trivets

by Andrea Nickerson



## SUPPLIES

Wood: pine or wood of choice—four pieces  $3/4$ " x  $1-3/4$ " x  $7-1/4$ " (for the frame pieces) (**Note:** these dimensions will accommodate a  $4-1/8$ " square tile; if you use a tile of different dimensions, adjust the length of the sides accordingly)

Tools: table saw with dado blade; scroll saw with No. 5 blades; drill with bits; 1" chisel; belt or hand-sander

Temporary-bond spray adhesive

Clamps

Straightedge

Finish nails, 1-1/2" (optional)

Wood glue

Sandpaper, assorted grits

Tile—use any standard tile

Silicone II adhesive

No. 0000 steel wool

Minwax Winter White stain

Tints—All paint tint—Dark Green (for

Turquoise); Tangerine (for Peach);

Venetian Red (for Rose)

Cotton rag

Latex urethane finish

## INSTRUCTIONS

### Make the sides

Cut a  $1/4$ "-wide rabbet along one edge of the pine stock as shown in the Assembly Drawing. To determine the depth of the rabbet, measure the thickness of the tile you will be using and deduct  $1/8$ "—the tile will "sit" in the rabbet and its top surface should be slightly higher than the top surface of the wood.

Cut the 45 degree miters on the rabbeted stock, then transfer one of the two pattern options, found in Full Size Pattern Section No. 3, to each piece and make the decorative cuts.

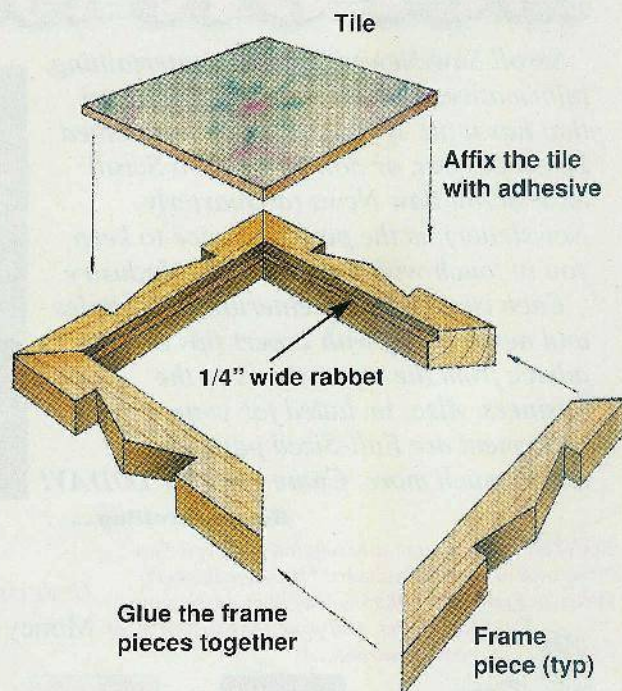
### Assemble and stain

Arrange the four pieces around the tile, but do not glue the tile in place yet—the tile is only being used for positioning the wood at this time. Glue and clamp the four pieces together. Allow to dry.

The stains shown in the color photo are all made from a base of Winter White stain plus a small amount of paint. The stains are made as follows: Turquoise = Winter White + Dark Green; Peach = Winter White + Tangerine; Rose = Winter White + Venetian Red.

Apply the stain with a brush, then wipe off the excess with a cotton rag. Let dry. Apply two coats of urethane, let dry, then buff smooth with No. 0000 steel wool.

Apply Silicone II to the rabbet, press the tile in place, and let dry.



Assembly Drawing



Call or Write Today !!

# SLOAN'S WOODSHOP

3453 Callis Road  
 Lebanon, TN 37090  
 Phone: (615) 435-2222  
 Fax: (615) 453 0507  
 E-Mail: scrollwood@aol.com

## Order Toll Free: 1-888-615-9663

Orders Shipped within 24 hours. Mention ad to get sale prices. Sale extended until 12-31-98

### Hardwood Plywood

#### GOOD 1 SIDE

##### Red Oak

- #200 - 1/4"x12"x12" - \$1.50
- #201 - 1/4"x12"x24" - \$3.00
- #202 - 1/4"x24"x24" - \$6.00

##### Cherry

- #250 - 1/4"x12"x12" - \$2.50
- #251 - 1/4"x12"x24" - \$5.00
- #252 - 1/4"x24"x24" - \$10.00

##### Walnut

- #350 - 1/4"x12"x12" - \$3.50
- #351 - 1/4"x12"x24" - \$7.00
- #352 - 1/4"x24"x24" - \$14.00

##### Maple

- #450 - 1/4"x12"x12" - \$1.75
- #451 - 1/4"x12"x24" - \$3.40
- #452 - 1/4"x24"x24" - \$6.70

##### Hickory

- #375 - 1/4"x12"x12" - \$2.50
- #376 - 1/4"x12"x24" - \$5.00
- #377 - 1/4"x24"x24" - \$10.00

##### Mahogany

- #275 - 1/4"x12"x12" - \$2.50
- #276 - 1/4"x12"x24" - \$5.00
- #277 - 1/4"x24"x24" - \$10.00

#### GOOD 2 SIDES

##### Red Oak

- #210 - 1/4"x12"x12" - \$2.00
- #211 - 1/4"x12"x24" - \$4.00
- #212 - 1/4"x24"x24" - \$8.00

##### Cherry

- #255 - 1/4"x12"x12" - \$3.50
- #256 - 1/4"x12"x24" - \$7.00
- #257 - 1/4"x24"x24" - \$14.00

##### Walnut

- #355 - 1/4"x12"x12" - \$4.50
- #356 - 1/4"x12"x24" - \$9.00
- #357 - 1/4"x24"x24" - \$18.00

##### Maple

- #453 - 1/4"x12"x12" - \$2.75
- #454 - 1/4"x12"x24" - \$5.25
- #455 - 1/4"x24"x24" - \$10.00

### Baltic Birch Plywood

- #101 - 1/8"x12"x12" - \$1.00
- #107 - 1/8"x12"x24" - \$1.90
- #113 - 1/8"x24"x24" - \$3.80
- #102 - 1/4"x12"x12" - \$1.30
- #108 - 1/4"x12"x24" - \$2.50
- #114 - 1/4"x24"x24" - \$5.00
- #103 - 3/8"x12"x12" - \$1.75
- #109 - 3/8"x12"x24" - \$3.40
- #115 - 3/8"x24"x24" - \$6.80
- #104 - 1/2"x12"x12" - \$2.00
- #110 - 1/2"x12"x24" - \$3.90
- #116 - 1/2"x24"x24" - \$7.80
- #105 - 5/8"x12"x12" - \$2.95
- #111 - 5/8"x12"x24" - \$5.80
- #117 - 5/8"x24"x24" - \$11.60
- #106 - 3/4"x12"x12" - \$3.95
- #112 - 3/4"x12"x24" - \$7.80
- #118 - 3/4"x24"x24" - \$15.60

### Finnish Birch Plywood

- #5242 - 1/16"x12"x12" - \$2.25
- #5242A - 1/16"x12"x24" - \$4.40
- #5242B - 1/16"x24"x24" - \$8.80
- #5241 - 1/32"x12"x12" - \$2.35
- #5241A - 1/32"x12"x24" - \$4.60
- #5241B - 1/32"x24"x24" - \$9.20
- #5240 - 1/64"x12"x12" - \$3.75
- #5240A - 1/64"x12"x24" - \$7.40

### Italian Poplar Plywood

- #5530 - 1/8"x12"x12" - \$1.50
- #5530A - 1/8"x12"x24" - \$2.90
- #5530B - 1/8"x24"x24" - \$5.80

### Olson Scroll Saw Blades

#### Regular Skip Tooth Blades

- #2/0, 0, 2, 4, 5, 7, 9, 11
- \$2.00 a Doz - \$20.00 a Gross  
(mix or match for gross pricing)

#### Double Skip Tooth Blades

- #1, 3, 5, 7, 9, 12
- \$2.00 a Doz - \$20.00 a Gross  
(mix or match for gross pricing)

#### Reverse Skip Tooth Blades

- #2/0, 2, 5, 7, 9, 12
- \$2.40 a Doz - \$24.00 a Gross  
(mix or Match for gross pricing)

#### "NEW" Crown Tooth Blades

- #2/0, 2, 3, 5, 7, 9, 12
- \$2.90 a Doz - \$29.00 a Gross  
(mix or match for gross pricing)

#### Precision Ground Tooth

- # 5, 7, 9
- \$4.50 a Doz - \$45.00 a Gross  
(mix or match for gross pricing)

#### Spiral Tooth Blades

- #2/0, 2, 5
- \$2.50 a Doz - \$25.00 a Gross  
(mix or match for gross pricing)

### Mini Drill Bits

- 1/16" or 1/8" Drill Bits
- \$4.50 per Doz
- Numbered Drill Bits
- #54, #56, #58, #61, #67, #72
- \$ 7.50 per Dozen  
(sorry no mixing sizes of drill bits)

### Plexiglas Sheets

All sheets 1/8"x12"x24"

#### Solid Colors \$9.00 ea

Red, Blue, Green, Yellow, Orange, Black, White

#### Transparent Colors \$9.00 ea

Red, Blue, Green, Yellow, Orange, Smoke, Clear  
(clear only \$6.00 each)

#### Mirrored Colors \$13.00 ea

Red, Blue, Green, Yellow, Orange, Pink, Purple, Peach, Gold, Bronze, Gray, Clear  
(clear only \$ 9.00 each)

3"x4" sample of each (26pcs)

#919-D - \$12.95

## Free Catalog !!

Have a  
Question ?  
Give us a  
CALL

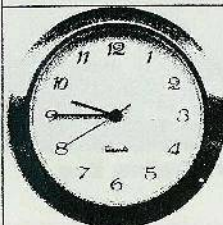


To order call, fax or write us. We accept Visa, MasterCard, Checks & Money orders, sorry no COD's Please include Phone # & street address (No PO Boxes for orders). We are here Mon-Fri 9am-6pm, Sat 10am-2pm Central Time. **Most orders received by noon are shipped the same day. Shipped by UPS, INSURED!!** Many more items in stock!! *Don't know which blade to buy...Want to know more about our products....Call Us!! When you call you will talk to more than just an order taker. We are here to help!!*

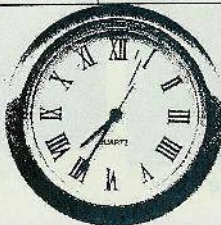
### Shipping Charges

Charges apply to 48 Contiguous States Only

- \$00.00 - \$40.00 add \$5.00
- \$40.01 - \$60.00 add \$6.50
- \$60.01 - \$80.00 add \$8.00
- \$80.01 and over add 10%
- Blade Only Orders \$5.00 shipping
- TN residents add 8.25% Sales Tax



#CK100 - \$5.25



#CK101 - \$5.25



#PHOTO - \$1.75

1 7/16" Arabic insert 1 7/16" Roman insert 1 7/16" Photo insert

Each require 1 3/8" mounting hole 5/16" deep. Batteries included in clocks. All have gold tone bezel, clocks have white dials.

#FOR138 - 1 3/8" FORSTNER BIT - \$9.00 EACH

**Good Wood - Great Prices**  
**Fast, Friendly Service**  
**Satisfaction Guaranteed**

# PS WOOD MACHINES

## Best Of Bill Lewis' Fan-Out Art Collection



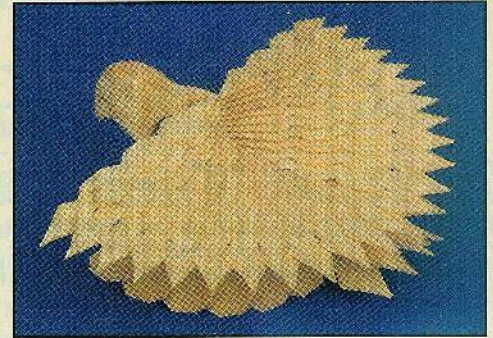
Long-Eared Owl



Military Macaw



Bataleur Eagle



Hawaiian Honeycreeper



Great Tit



Bald Eagle



Black Headed Shrike



Raven



Bohemian Waxwing

\* Each bird, with its "Fanned Out" wings, is made from a SINGLE PIECE OF WOOD!

\* With your first bird pattern order, we will give you a FREE wood blank, from which to make your bird!

\* Each pattern gives you the cutting pattern for the specific bird species you've chosen, plus five different wing configurations!

**All patterns on this page \$7.95ea. or 3 for \$21.00 plus S&H (You may mix and match Bird and Intarsia patterns)**

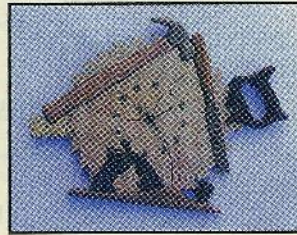
## Best Of Garnet Hall's Intarsia Patterns



#1 Loon



#2 Buffalo



#3 Woodworker's Clock



#37 Touring Cycle



#40 Eagle



#53 Woodworker's Ties



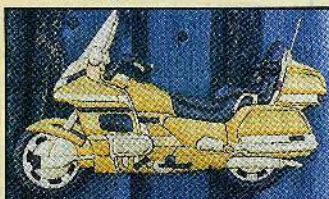
#67 Lone Wolf



#73 Yellow Bug



#74 Tiger



#80 Wings Of Gold

Call for more information at (412) 831-5402 or  
ORDER TOLL FREE: (800) 939-4414.

**PS WOOD MACHINES,**

10 Downing Street, Suite 3, Library, PA 15129.

[www.pswood.com](http://www.pswood.com)

# PS WOOD MACHINES

**OUR BAND SAW BLADES ARE TRULY EXTRAORDINARY!**

**HERE'S WHY:**

- \* Coolest running, longest lasting blades on the market!
- \* The weld on each blade is guaranteed for life!
- \* Great for resawing: these blades cut straight; produce your own thin stock for scroll sawing!
- \* Made from silicon carbon steel, these blades run under low tension and thus require less horsepower from your band saw!
- \* These great blades produce a thin kerf, make the tightest turns imaginable, and do not wander!

**BLADES AVAILABLE IN ANY LENGTH IN WIDTHS OF 1/8", 3/16", 1/4", 1/2" AND 3/4".**

**CALL FOR MORE INFORMATION AT (412) 831-5402 OR ORDER TOLL FREE: 1-800-939-4414**


Length: 60    Width: 1/4"    TPI: 5    Thick: .025

Distributors of  
Gschwind Group

**CREATORS OF  
TIMBER WOLF**

*World's Only Thin Kerf,  
Low Tension, Swedish Silicon Steel*

**BAND SAW BLADE**



Milled teeth for cleaner cuts  
Low tension for more power and less wear and tear  
on your saw. Turns tighter and lasts longer.

CAUTION: Read instructions on back BEFORE OPENING PACKAGE.

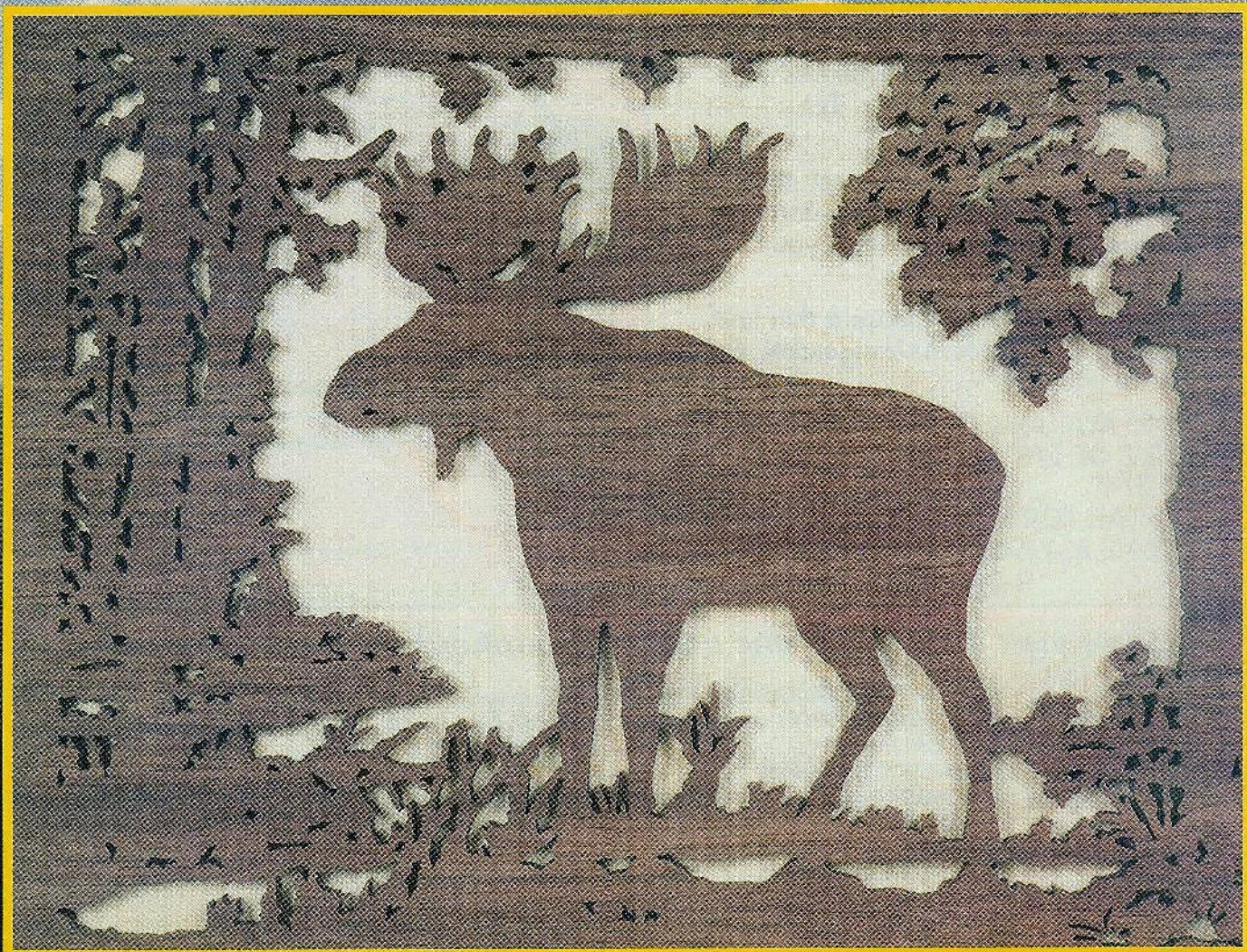
## Come visit us at these fine shows throughout the 1998-1999 season

August 21-23	ULTIMATE WOODCRAFTING FESTIVAL	Sussex County Fairgrounds	Frankford Twp., NJ
September 18-20	SUBURBAN DETROIT	Novi Expo Center	Novi, MI
September 18-20	NEW ORLEANS	Pontchartrain Center	Kenner, LA
September 25-27	GREATER CLEVELAND	I-X Center	Cleveland, OH
October 2-4	CHICAGOLAND	Odeum	Villa Park, IL
October 9-11	TWIN CITIES	Minnesota State Fairgrounds	St. Paul, MN
October 16-18	GREATER MILWAUKEE	Midwest Express Center	Milwaukee, WI
October 23-25	DALLAS/FT. WORTH	Bigtown Exhibition Hall	Mesquite, TX
Oct. 30-Nov. 1	OREGON	Portland Expo Center	Portland, OR
November 6-8	SAN FRANCISCO BAY AREA	San Mateo Expo Center	San Mateo, CA
November 6-8	FORT WASHINGTON	Fort Washington Expo Center	Fort Washington, PA
November 13-15	SEATTLE	Seattle Center	Seattle, WA
November 20-22	GREATER LOS ANGELES	Fairplex	Pomona, CA
December 4-6	COLORADO	Denver Merchandise Mart	Denver, CO
December 11-13	ARIZONA	Arizona State Fairgrounds	Phoenix, AZ
January 8-10	METRO-DETROIT	Novi Expo Center	Novi, MI
January 15-17	GREATER COLUMBUS	Ohio Expo Center/Fairgrounds	Columbus, OH
January 22-24	BALTIMORE	Maryland State Fair	Timonium, MD
January 29-31	KANSAS CITY	Overland Park Int'l Trade Center	Overland Park, KS
February 5-7	INDIANAPOLIS	Indiana State Fairgrounds	Indianapolis, IN
February 12-14	ST. LOUIS	Gateway Center	Collinsville, IL
February 19-21	NORTH JERSEY	Garden State Exhibit Center	Somerset, NJ
February 26-28	CENTRAL FLORIDA	Florida State Fairgrounds	Tampa, FL
March 5-7	SUBURBAN LOS ANGELES	Ontario Expo Center	Ontario, CA
March 19-21	HOUSTON	Astroarena	Houston, TX
March 26-28	ATLANTA	Gwinnett Civic Center	Duluth, GA
April 9-11	MASSACHUSETTS	Eastern States Exposition	West Springfield, MA
April 16-18	CHICAGOLAND	Odeum	Villa Park, IL
April 23-25	GREATER LOS ANGELES	Orange County Fairgrounds	Costa Mesa, CA
April 30-May 2	PLEASANTON	Pleasanton County Fairgrounds	Pleasanton, CA
May 7-9	SAN DIEGO	Del Mar Fairgrounds	Del Mar, CA

# Monarch of the North

by Wildwood Designs

sawn by Wes Demarest



## SUPPLIES

Wood: walnut—1/4" x 9-3/4" x 13-3/4" (for the silhouette);

birch—1/4" x 9-3/4" x 13-3/4" (for the backer board)

Tools: scroll saw with No. 5 blades; drill with bits

Temporary-bond spray adhesive

Sandpaper, assorted grits

Sharp knife or needle file

Finish of choice

*This popular pattern, which appeared in the February 1994 issue, was one of the first of many wildlife scroll sawing patterns featured in Creative Woodworks & Crafts.*

## INSTRUCTIONS

### Transfer and cut

Affix the silhouette pattern, found in Full Size Pattern Section No. 1, to the wood with temporary-bond spray adhesive. Cut the pattern to shape. Remove the pattern from the wood and sand as needed. Size the backer board to the dimensions indicated.

Glue the cut piece to the backer. Finally, apply finish of choice to the silhouette and let dry.

# Quilt Hanger

by Peter Brylinski



## SUPPLIES

Tools: table saw with dado head cutter; jointer; planer; drill with assorted bits; router with 1/4"-radius beading or roundover bit; hammer and short length of pipe; vise grips; hand plane (optional)

Clamps

Yellow wood glue

Sandpaper, assorted grits

Three to five 1-1/4"-Dia. birch disc knobs (see instructions for determining how many to use)

Two 1-5/8" x 1/2" brass mirror hangers

Three to five No. 10-24 "T" nuts

Three to five No. 10-24 x 2" hanger bolts

Oil finish

## BILL OF MATERIALS

Part	Description	Size in inches	Quantity
<i>Cherry or oak:</i>			
A	Front strip	3/4 x 2-1/4 x length of hanger	1
B	Rear strip	3/4 x 2-1/2 x length of hanger	1

## INSTRUCTIONS

### Introduction

This quilt hanger provides a great way to display quilts, rugs, or tapestries as wallhangings. The item is safely sandwiched between two molded strips of wood, which apply firm, even pressure along their length. The hanger's design eliminates the need to sew anything onto the piece being displayed, and it also eliminates the need for clips or pins, which have been known to inflict needless damage on valuable heirlooms.

To use the quilt hanger, unscrew the wooden knobs and separate the two strips of wood. Lay the hanger and quilt flat on a table or floor. Place the edge of the quilt in the groove in the rear strip, place the front strip on top, and secure the quilt by tightening the threaded knobs. The hanger attaches to the wall easily with simple hardware.

Cut your hanger to whatever length is desired, keeping in mind that it should be a few inches longer than the quilt to be displayed.

### Select and cut the wood

Cherry or oak are excellent choices for this project, but almost any wood can be used, providing that the lumber is very straight and free of large knots. Select a board at least 5-1/2" wide and slightly longer than the finished length. Rip the board to make two oversize strips 2-11/16" wide.

Prior to cutting the strips to finished size, check them for any slight bow along their length, and then position them with their ends touching so that any space between them (caused by the bowing) is kept at their center—this is how the strips should be positioned in the finished Quilt Hanger (see Fig. 1). Next, check the two pieces for any imperfections or interesting grain patterns and choose which one to use for the front piece.

Once you've decided which strip will be the front piece, size both pieces to the widths indicated. Finally, cut both pieces to the desired length.

### Lay out and drill holes for hardware

Position the two strips together as they will be assembled for the finished hanger. Referring to Drawing No. 1, lay out the locations for the 1/4"-Dia. holes that will receive the knobs and hardware. The number of knobs used for the quilt hanger is determined by its length—three knobs are recommended for a hanger 42" or less; use four knobs for lengths between 42" and 72"; and use five knobs for hangers longer than 72". As shown in Drawing Nos. 1 and 2, locate a knob 4" in from each end and then divide the space between the two end knobs evenly to locate the remaining ones. Center punch a mark at each knob location, and you are ready to lay out the grooves on the inside faces of both parts.

Referring to Drawing No. 2, pencil in reference marks for the 3/8"-wide x 1/4"-deep groove that will be cut on the inside face of the back strip. Next, mark for the 1-1/2"-wide x 1/8"-deep channel that will be cut on the inside face of the front strip.

Clamp the two pieces of wood together in their proper position, placing the clamps so as not to interfere with the drilling process that is about to take place. At each location previously marked, drill a 1/4"-Dia. hole through both strips. Drilling the strips while they are clamped together ensures proper alignment. Next, remove the clamps and drill the 3/4"-Dia. x 1/4"-deep countersinks on the rear side of the back piece—use a spade bit in a drill press set at a slow speed. The spade bit should have a large center-point so that it centers itself in the 1/4"-Dia. holes previously drilled (see Fig. 2). **Tip:** check this drilling/countersinking operation on a piece of scrap wood before drilling the



# Best of Heartland Creations Patterns

**PATTERNS  
ONLY  
\$4.95 ea.  
regularly \$5.95**



Fig. 1. Before cutting the two strips to final size, position them with their ends touching so that any space between them (caused by bowing) is kept at their mutual center. This is how the strips should be positioned in the finished Quilt Hanger.



Fig. 2. Using the spade bit to countersink for the "T" nuts.



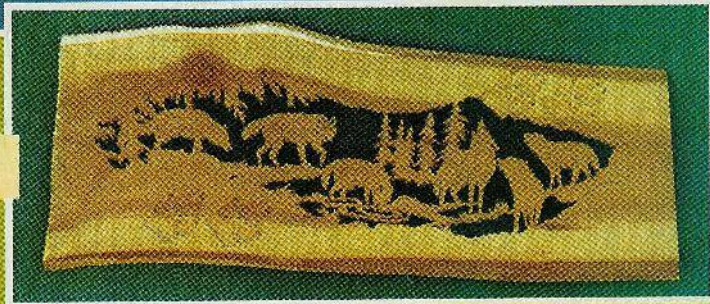
Fig. 3. Using a piece of pipe to hammer a "T" nut into its countersunk hole.



Fig. 4. Using a small pair of vise grips to hold the hanger bolt securely while the knob is screwed onto it.



#118 SALMON



#115 WOLF  
PACK



#123 HERON



#101 ELK



#122 TRUMPETER SWANS



#125 HUMPBACK WHALE

To order or request a catalog,  
call or write:



Add \$1.00 shipping/handling  
per pattern - \$4.00 maximum

WA Residents add 7.6% sales tax.

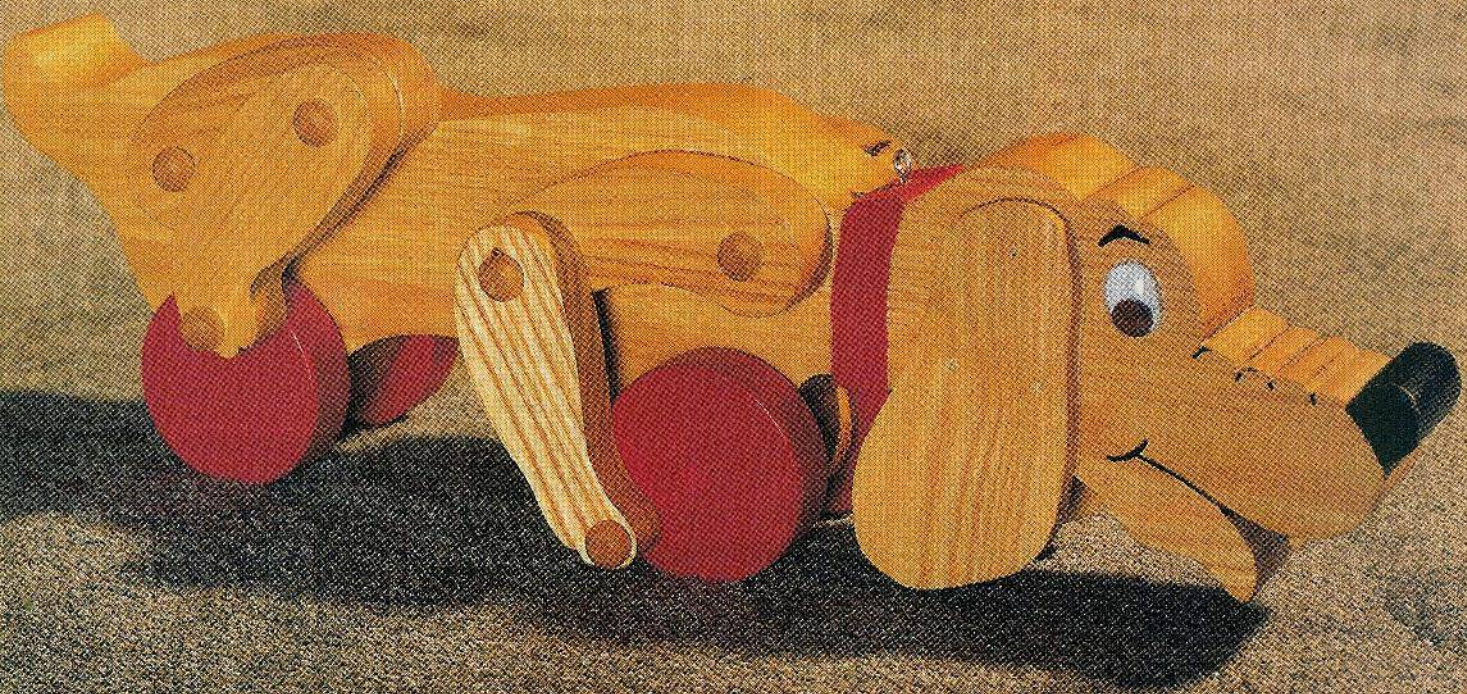
We accept Visa, Mastercard,  
check or money order.

Price shown is good only for the  
items in this ad and expires 10/1/98.

# Dog Pull Toy

by John A. Nelson

Here is one of the first John Nelson projects we featured, from our June 1992 issue.



## SUPPLIES

Tools: scroll saw with Nos. 5 and 9 blades; drill with 11/32" and 3/8" bits  
Dowels: two 11/32"-Dia. x 3-1/16"-long (for the axles); twelve 11/32"-Dia. x 1-3/8" long (for the axle pegs)  
Temporary-bond spray adhesive  
Sandpaper, assorted grits  
Wood glue  
Paints of choice and small paintbrush  
Paste wax  
Two eye-jiggles  
One eye screw  
Four 3/4" x 2-1/2"-Dia. wheels (optional—see pattern section)  
Cord for leash

## BILL OF MATERIALS

Part	Description	Size in inches	Quantity
<i>Wood of choice:</i>			
A	Body	1-1/2 x 4-1/2 x 17-1/2	1
B	Back leg tops	3/4 x 1-3/4 x 4	2
C	Back leg bottoms	5/8 x 2 x 4	2
D	Front leg tops	3/4 x 1-5/8 x 3-3/4	2
E	Front leg bottoms	5/8 x 1-9/16 x 4	2
F	Ears	5/16 x 2-1/4 x 4-1/2	2

## INSTRUCTIONS

### Lay out and cut parts

Transfer the patterns, found in Full Size Pattern Section No. 2, to the appropriate stock with temporary-bond spray adhesive. Locate and drill all holes before cutting out the pieces, then cut the pieces to shape. Remove the patterns and sand as needed. Matching parts should be taped or tacked together when drilled, cut out, and then sanded along the edges to ensure they match exactly.

### Test fit and paint

Dry assemble all the parts (see the Exploded View Drawing) to ensure that everything works correctly and make any necessary adjustments. Make sure all the parts are a little on the loose side so that the dog will pull easily and the four legs will move smoothly without binding.

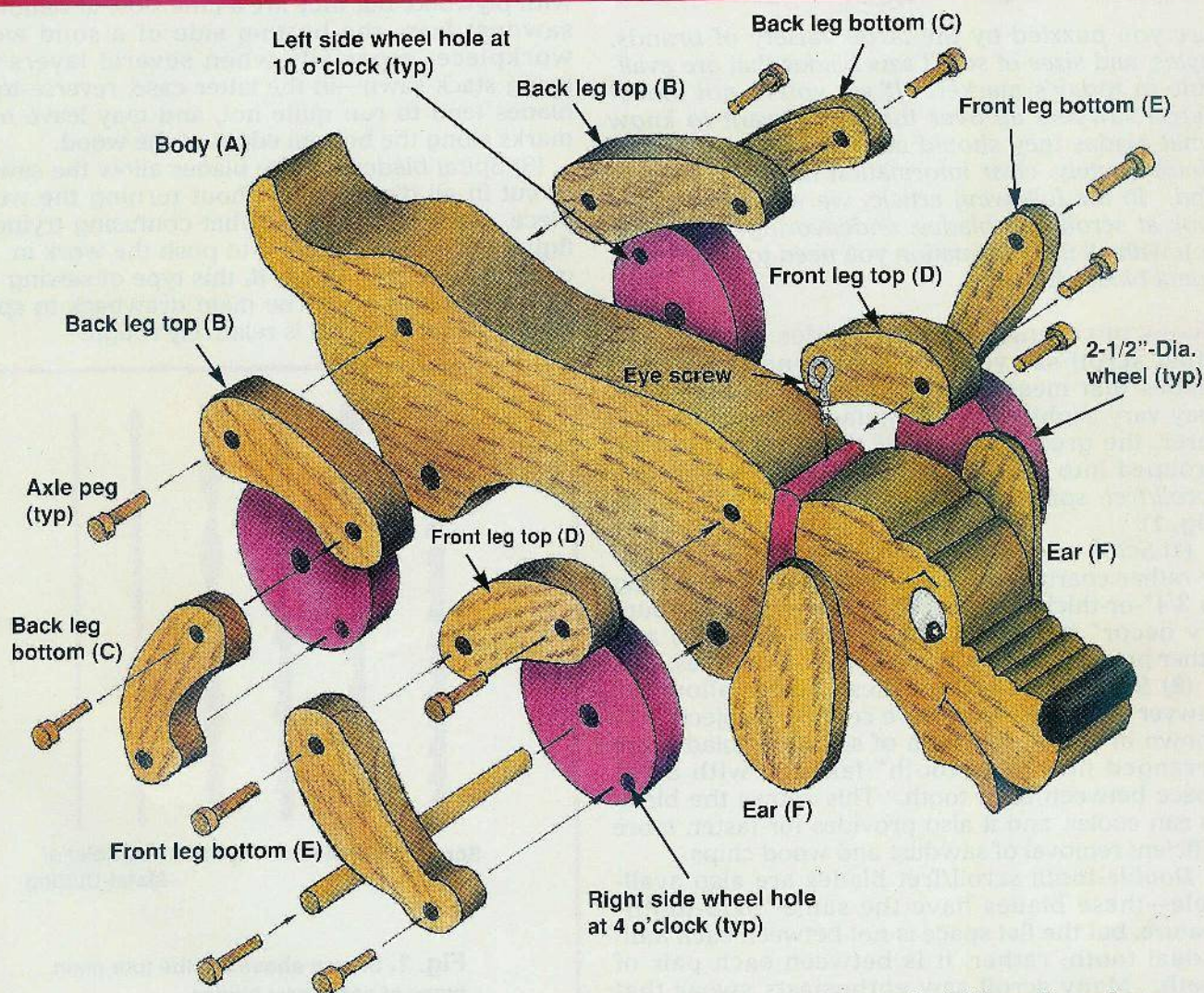
Disassemble and paint the dog as you wish. (If you always wanted a spotted dog, here is your chance to

have one.) Don't forget to add a collar! Apply a coat of paste wax to all parts before final assembly (but do not get wax in any holes where axle pieces will be glued).

### Assemble

Reassemble all parts and carefully glue the wheels on the axles. Be sure that the glue does not get where it will cause the wheels to bind. Make sure that the holes for leg attachments in each pair of wheels are diagonally opposed (see the Exploded View Drawing). Again referring to the drawing, glue the axle pegs into the 11/32"-Dia. holes. Check that all parts move freely. Glue on the eye-jiggles. Add an eye screw to the top of the collar and attach a leash.

*Reprinted by permission of Sterling Publishing Co., Inc., Dept. WW17, 387 Park Avenue South, New York, NY 10016, from 52 Weekend Woodworking Projects, by John A. Nelson, © 1991 by the author.*

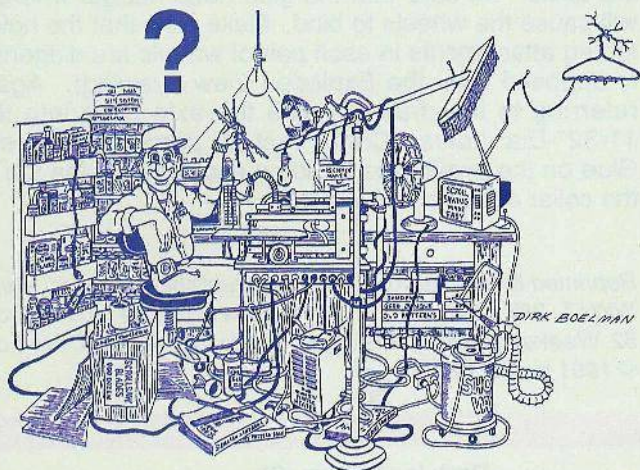


Exploded View Drawing

# Confused About Scroll Saw Blades?

by Dirk and Karen Boelman

Dirk and Karen Boelman first cleared the air about scroll saw blades in the April 1995 issue.



Are you puzzled by the large variety of brands, styles, and sizes of scroll saw blades that are available in today's market? If so, you're not alone! Scroll sawyers all over the world want to know what blades they should use for various projects. Unfortunately, clear information has been hard to find. In the following article, we will take a close look at scroll saw blades, endeavoring to provide you with all the information you need to make intelligent blade choices.

## Types of commonly-used blades

Most scroll sawyers use plain-end ("pinless") blades that measure 5" or longer. While styles may vary slightly from manufacturer to manufacturer, the great majority of these blades can be grouped into one of four categories: *scroll saw*, *scroll/fret*, *spiral*, and *jeweler's/metal-cutting* (see Fig. 1).

(1) *Scroll saw blades*—These blades are generally rather coarse, and are designed for fast cutting in 3/4"-or-thicker stock. They are ideal for "country decor" items, such as hearts, animals, and other projects that have relatively simple lines.

(2) *Scroll/fret blades*—These blades allow the sawyer to tackle much more complex projects. As shown in Fig. 1, the teeth of scroll/fret blades are arranged in a "skip-tooth" fashion, with a flat space between each tooth. This allows the blade to run cooler, and it also provides for faster, more efficient removal of sawdust and wood chips.

*Double-tooth* scroll/fret blades are also available—these blades have the same "skip-tooth" feature, but the flat space is not between each individual tooth; rather, it is between each pair of teeth. Many scroll saw enthusiasts swear that double-tooth blades work best for cutting plywood, greatly reducing bottom-side tearout.

We agree that they do help to eliminate this problem, but some tearout is still to be expected. Another advantage of double-tooth scroll/fret blades is that they tend to leave a more polished edge on the wood.

*Reverse-tooth* scroll/fret blades also feature the "skip-tooth" design, but they are distinguished by having a small number of teeth pointing in the opposite direction at the lower end (see Fig. 2). These blades are excellent for reducing splintering or tearout on the bottom side of the workpiece. Reverse-tooth blades must be installed so that the reverse teeth travel above the top of the scroll-saw table's surface on the upstroke. Some manufacturers produce slightly longer-than-average reverse-tooth blades to allow them to be properly aligned and then snipped off to the correct length. We have found reverse-tooth blades to work magnificently with plywood, but they are a little slow at removing sawdust from the bottom side of a solid wood workpiece, especially when several layers are being stack-sawn—in the latter case, reverse-tooth blades tend to run quite hot, and may leave burn marks along the bottom edges of the wood.

(3) *Spiral blades*—These blades allow the sawyer to cut in all directions without turning the workpiece. At first, it is somewhat confusing trying to figure out which direction to push the work in, but once you get the hang of it, this type of sawing can be rather enjoyable. The main drawback to spiral blades is that their cut is relatively rough.

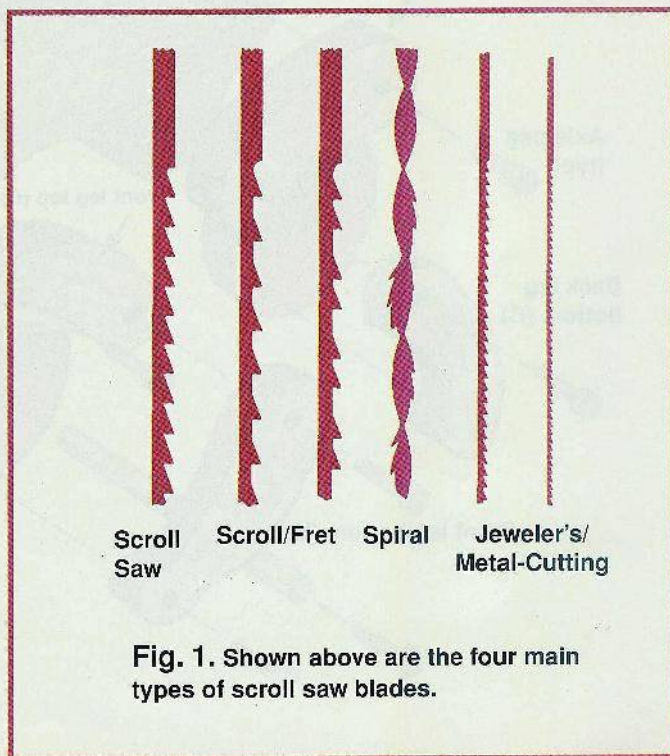


Fig. 1. Shown above are the four main types of scroll saw blades.

(4) *Jeweler's/metal-cutting blades*—As shown in Fig. 1, these blades are very fine and have a high teeth-per-inch ratio. As their name implies, they are used primarily for cutting metal and other relatively hard materials. Jeweler's blades are available in very small sizes, down to 8/0, which is the finest blade imaginable—size 8/0 has been described as being “the thickness of a fat hair.” It should be noted that there is a subtle difference between jeweler's and metal cutting blades. Jeweler's blades are not intended to cut ferrous metals and should only be used on variable speed scroll saws, capable of operating at extremely slow speeds. Some sawyers routinely use the 2/0, 3/0 and 4/0 (still very fine blades, but considerably thicker than the 8/0) for cutting very thin wood, such as fragile veneers used for marquetry. When we have used jeweler's/metal-cutting blades for cutting wood, we found that the teeth fill up very quickly with sawdust, thus rendering them somewhat ineffective.

And then there are the relatively new blades on the market:

*Precision Ground Tooth (PGT) scroll/fret blades*—These are also arranged in the “skip-tooth” design as well as having the reverse teeth on the lower end of the blade. In the manufacturing of these blades, they are ground twice to produce an extra sharp edge all around the blade. This grinding process leaves no burr edge, so these blades will cut a straight line without angling the work piece into the blade. They also leave a very smooth cut in the wood. Compared to other scroll/fret blades, PGT blades are the most aggressive cutting and also remain sharper for a longer time. As with the regular reverse tooth blades, you may notice that the blades heat up when cutting solid wood and can leave burn marks. Two solutions for this are to use a larger size blade and to slow down your speed. These blades do an excellent job of preventing bottom side splintering

and cut quickly through 1/2” to 3/4”-thick projects.

*Crown Tooth blades*—These are the newest addition to the scroll/fret blade category. As the name implies, they have a unique crown-shaped tooth design that allows them to cut on both the upstroke and downstroke of your saw. Unlike other blades, Crown Tooth blades don't have a top or bottom to the blade—they can be installed in your saw with either end at the

top and the teeth facing forward. Since you only use a small portion of the blade while sawing, you can flip the blade over when it begins to get dull to use a fresh set of teeth on the other end of the blade. However, the blades do have a burr on one edge that you need to be aware of. Determine which side of the blade has the burr by running two fingers lightly down opposite sides of the blade (not down the “front” and “back” as

## SCROLL SAW ARTIST EXTRAORDINAIRE DIRK BOELMAN IS CUTTING A GREAT DEAL FOR YOU!



Receive his latest  
catalog and the  
next issue of his  
*Red-Hot newsletter*,  
**SCROLL SAW CHATTER**,  
absolutely FREE!



The catalog features hundreds of terrific patterns, including Native American, Western-Frontier, Wildlife, and Religious silhouettes, clocks of all shapes and sizes, and much more! We also sell blades, clock movements, and dozens of other scroll saw accessories!



Simply send \$1.00 (for shipping & handling) along with your name and address to:

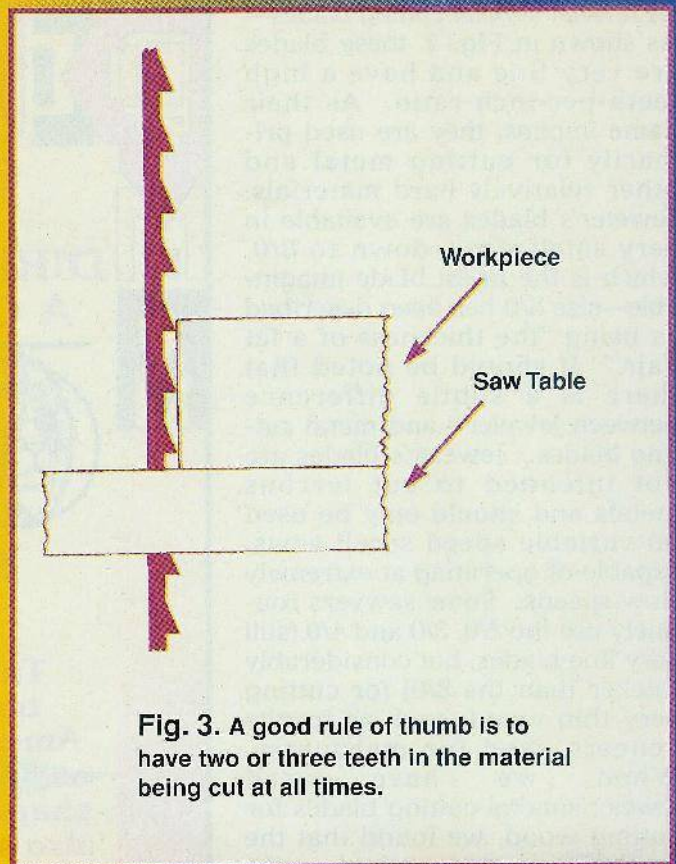
**The Art Factory**  
950 Hollman St.,  
P.O. Box 701  
Platteville, WI 53818  
Ph: (608) 348-8332  
Order Hotline  
1-800-566-6394

the "front" edge is sharp!). You will feel that one side is rougher than the other. The blade will pull to the rough side as it goes through the wood. In your machine, if the blade has the burr edge to the right, then saw in a clockwise direction. If the burr edge is to the left side, then saw in a counter-clockwise direction. We find that keeping the burr edge toward the waste wood gives better control. Crown Tooth blades are the least aggressive of the scroll/fret category. They provide good control on both sharply rounded curves and back and forth wavy lines. They are also useful to prevent bottom side splintering.

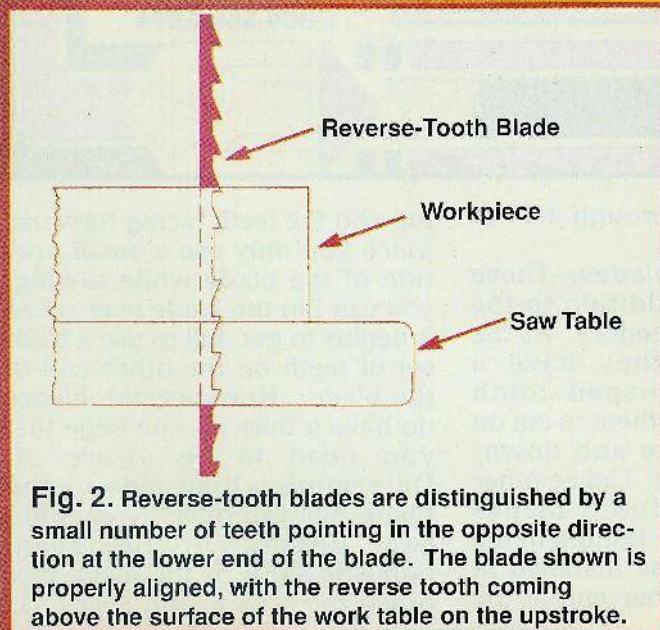
### Choosing the right blade

Experience has taught us to keep on hand a variety of blade styles, because we cut so many different types of materials in various thicknesses, including wood, Plexiglas, cardboard, paper, thin metal, etc. Sometimes we have to quickly cut shapes out of thick pine, rock-hard maple, or old weathered barn boards. On other occasions, a project calls for cutting intricate overlays from 1/32" plywood, or perhaps jewelry must be cut from thin brass or copper. By having various blade styles readily available, we can tackle a multitude of cutting jobs without "missing a beat."

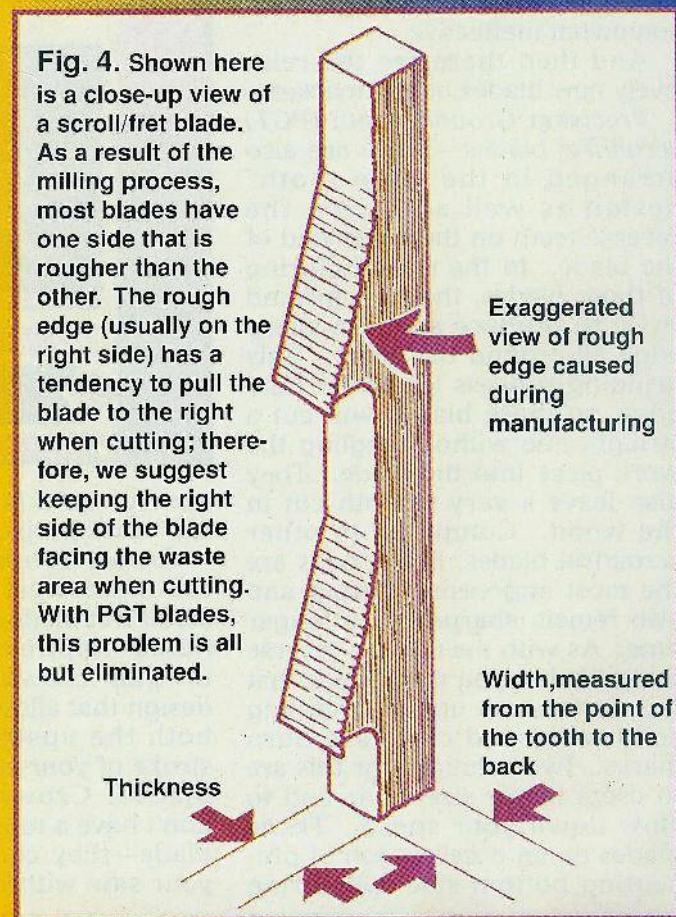
Blade manufacturers and distributors provide a mind-boggling array of specifications and recommendations for their products, yet there is a surprising lack of standardized means for grading and describing them that transcends company boundaries. For example, most blades are given a "generic" size ranging from 8/0 (the smallest) to 12 (the largest). **Note:** from 8/0, the numbers decrease, i.e., 7/0, 6/0, as the blades increase in size; once "0" is reached, the numbers run from 1 to 12. However, a No. 2 blade from one manufacturer can be a completely different size



**Fig. 3.** A good rule of thumb is to have two or three teeth in the material being cut at all times.



**Fig. 2.** Reverse-tooth blades are distinguished by a small number of teeth pointing in the opposite direction at the lower end of the blade. The blade shown is properly aligned, with the reverse tooth coming above the surface of the work table on the upstroke.



**Fig. 4.** Shown here is a close-up view of a scroll/fret blade. As a result of the milling process, most blades have one side that is rougher than the other. The rough edge (usually on the right side) has a tendency to pull the blade to the right when cutting; therefore, we suggest keeping the right side of the blade facing the waste area when cutting. With PGT blades, this problem is all but eliminated.

than a No. 2 blade from another manufacturer. Therefore, we suggest that you familiarize yourself with the following three descriptive criterion: *teeth per inch, blade width, and blade thickness.*

**Teeth per inch (TPI)**—As a general rule, it is advisable to have two or three teeth in the material being cut at all times (see Fig. 3). For example, 1/8"-thick wood is best cut with a blade having 16 to 24 TPI, 1/4" wood is best cut with 8 to 12 TPI, and so on.

**Width**—Wider blades are recommended for cutting straight lines and large curves. Narrower blades are better suited for intricate cutting with sharp turns and tight curves (see Fig. 4).

**Thickness**—The thinner the blade, the more narrow the kerf or cut that is created. Narrow kerfs are required for cutting very intricate projects from thin materials, and also for cutting components that will be reassembled after sawing (such as puzzles, inlays, and marquetry). Wider kerfs are desirable for veining in leaves, defining silhouettes, etc.

### It's all up to you

We hope this information will help you choose what scroll saw blade to use for a particular project. Keep in mind that *personal preference* plays an important role in selecting the "right" blade. Everyone saws differently and each person is at his or her own skill level. Some people love to work fast, and will therefore seek the most aggressive blades available; others are content to work more slowly, perhaps in an attempt to achieve perfection, and for them, an aggressive blade is not desired. The scroll saw you have, the speed at which you cut and feed material into the blade—these and a host of other factors will ultimately determine which scroll saw blades you like the best. The main considerations are to work safely and to have fun! Happy sawing!



## As seen in Creative Woodworks & Crafts... MAGNIFICENT 3-D MARQUETRY KITS!

- **Complete Kits** – each kit comes complete with all the woods needed to make the finished picture.
- **It's Easy** – just cut out the pieces with a scroll saw or a fret saw (shown below) and glue the pieces over the pattern on the base panel.
- **From Simple to Challenging** – kits are available in a wide array of difficulty levels. Whatever your skill level, you can find the right kit for you! Over 170 Kits to Choose From!
- **Picture Frames are now available for the kits!**

FOR MORE EXCITING  
MARQUETRY KIT  
PATTERNS SEE PAGE 81.



**BEAR CUBS**  
(#697) 9½" x 12"  
Kit Price: \$18.25



**CLOWN**  
(#704) 11" x 13"  
Kit Price: \$22.15



**CLOWN**  
(#764) 11" x 13"  
Kit Price: \$22.15

PRICES SHOWN ARE  
FOR COMPLETE KITS!



**FAMILY CAMPING**  
(#725) 10½" x 16"  
Kit Price: \$29.00



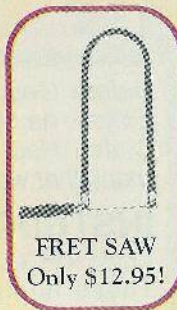
**THE SWANS**  
(#736) 10½" x 16"  
Kit Price: \$26.25

**FREE  
SHIPPING  
OR A FREE  
FRET SAW  
WITH ANY  
ORDER  
OVER \$100!**

**SPINNING  
WHEEL**  
(#574)  
16" x 20"  
Kit Price:  
\$44.95



**HORSES**  
(#544) 9½" x 12"  
Kit Price: \$22.45



**FRET SAW**  
Only \$12.95!

### ORDER TOLL FREE: 1-800-585-5965

or write to: Ford Enterprises, 4093 Meadowbrook Dr.,  
Unit 105, London, ON N6L 1G1.

Fax: 519-652-5781

Mastercard & Visa accepted.

All prices shown are in U.S. funds.

Shipping charges – between \$7.00 and \$10.00, depending upon weight. Orders over \$100 SHIPPED FREE.

Web site – [www.woodcrafters.on.ca](http://www.woodcrafters.on.ca)

E-mail – [bford@woodcrafters.on.ca](mailto:bford@woodcrafters.on.ca)

### SCROLL SAW BLADES

(We recommend these blade sizes for cutting our kits):

\* FR440 #2/0 Skip Tooth Blades  
\$3.75/Dozen

\* FR443 #2 Skip Tooth Blades  
\$3.75/Dozen

# Routed Boxes

by George Ahlers



Before George Ahlers became the Wizard (and the Editor), he was a contributor to *Creative Woodworks & Crafts*. Here is one of our favorite projects of his of the many that we've featured over the years.

## INSTRUCTIONS

### One idea, many possibilities

These finely crafted wooden boxes are bound to impress everyone who sees them. Not only do they make wonderful gifts, they also sell well at craft shows! The beauty of this project is that most of the shaping is only a matter of several easy router setups.

We offer four different sizes for these boxes, but you will quickly discover that the possibilities are endless. No doubt you'll be applying the sliding dovetail lid to a wide array of hardwood containers. The four examples shown are: a long, thin box suitable for pencils or pens; a smaller version for storing paper clips; a square box

designed to dispense stamps from a roll; and a smaller square box for tiny treasures. The tiny treasure box and paper clip box are of identical dimensions except for their lengths, and can thus be cut from the same piece of stock.

### A note on material selection

We chose mahogany for the stamp box and teak for the other three boxes, but any hardwood will work. Be sure to select stock that is free of knots or other imperfections which would make routing difficult and/or dangerous.

We have found that it's much easier and safer to work with stock which is larger than the finished dimensions—that way, you will be able to keep your fingers a safe distance from the router bits. This is especially important when hollowing out the storage portions of the boxes.

# THE SECRET IS OUT!

You can now take your scrollsaw projects to the next level with super high quality, solid hardwood blanks.

"Heritage makes the most impressive solid wood blanks for today's most popular patterns"

-George Ahlers, Editor of *Creative Woodworks and Crafts*.

Now they are available to you!

**SOLID HARDWOOD SCROLLSAW BLANKS**  
Perfectly clear, kiln dried, and sanded to thickness!

		1/4" THICK	1/2" THICK	3/4" THICK
ASPEN	12" x 12"	2.80	3.80	4.25
or	12" x 16"	3.75	5.10	5.60
POPLAR	12" x 20"	4.60	6.40	7.00
ASH, BIRCH	12" x 12"	3.60	4.80	5.40
or	12" x 16"	4.80	6.40	7.20
BASSWOOD	12" x 20"	6.00	8.00	9.00
RED OAK	12" x 12"	4.60	6.10	6.90
or	12" x 16"	6.10	8.15	9.25
BUTTERNUT	12" x 20"	7.60	10.20	11.60
MAPLE	12" x 12"	5.00	6.75	7.60
or	12" x 16"	6.70	8.95	10.10
PURPLEHEART	12" x 20"	8.40	11.20	12.60
WALNUT	12" x 12"	5.75	7.65	8.65
or	12" x 16"	7.70	10.25	11.50
MAHOAGANY	12" x 20"	9.60	12.80	14.40
CHERRY	12" x 12"	6.75	9.00	10.10
or	12" x 16"	8.95	12.00	13.45
SATINWOOD	12" x 20"	11.20	15.00	16.85

**1/4" SPEC-WOOD®**  
CLEAR, SANDED BOARDS, NO KNOTS!  
Price per running foot

	4" WIDE	6" WIDE	8" WIDE
OAK			
or	1.79	3.30	5.64
BUTTERNUT			
WALNUT			
or	2.24	4.14	7.07
MAHOAGANY			
CHERRY	2.63	4.85	8.28

Baltic birch plywood in all sizes also available

FREE SHIPPING ON ORDERS OVER \$100.00

ORDER TODAY TOLL FREE  
(800) 524-4184

**HERITAGE**  
Building Specialties

205 N. Cascade Fergus Falls, MN 56537

Visit us online!  
www.heritagewood.com

# FREE TOOL CATALOG!

Your Best Work Starts With Us...

With over 4,000 of the finest woodworking tools in the world, Woodcraft can help you work more efficiently and skillfully than ever. Call for your Free copy today.

**1-800-542-9115**

www.woodcraft.com



**WOODCRAFT®**  
Helping You Make Wood Work™

Visit one of our stores located nationwide! Call us for the store nearest you.

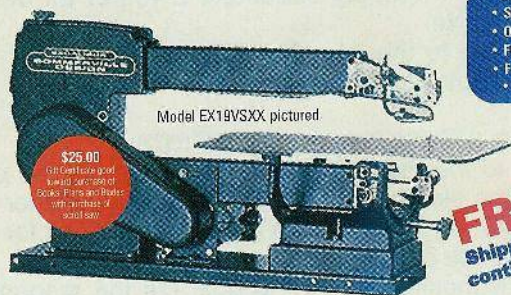


Proud sponsor of "The American Woodshop" hosted by Scott Phillips on PBS.

210 Wood County Ind. Park,  
Dept. 98Y110Q,  
PO Box 1686,  
Parkersburg, WV  
26102-1686

**TREELINE** NOW CARRIES  
THE WOODCRAFT SPECIALISTS

**EXCALIBUR** Scrollsaws



Model EX19VSXX pictured

- Includes:
- Stand,
- Quick Changer,
- Flip Tensioner,
- Foot Switch,
- 72 blades

**FREE!**  
Shipping within continental U.S.

EX19VSXX 19" Scrollsaw/acc. **\$999.00**

EX30VS 30" Scrollsaw/acc. **\$1199.00**

Call **1-800-598-2743** for your **FREE 1998 TOOL CATALOG**

Featuring the finest in carving and scrollsaw tools and accessories

TREELINE 1305 E. 1120 S. Provo, UT 84606  
FAX: 1-801-373-5786. Visit us on the web at www.treelineusa.com



## SUPPLIES

Wood: *hardwood of choice*—1-3/8" x 1-3/8" x 10" (for the pencil box); 1-1/8" x 1-1/8" x 5" (for the paper clip box); 2" x 2" x 2" (for the stamp box); 1-1/8" x 1-1/8" x 1-1/8" (for the tiny treasure box)

Tools: table or radial arm saw; router and router table with dovetail bit, and 1/4" and 3/4" straight bits; drill press with 3/4" and 1-3/8" Forstner bits; belt sander

Inlay banding—we used Nos. 13V54, 13V56, and 13V57\*

Sandpaper, assorted grits

Wood glue

Clamps

Clear oil finish of choice

\*Available from Woodcraft, 210 Wood County Industrial Park, P.O. Box 1686, Parkersburg, WV 26102-1686, (800) 225-1153.

### Select and rout the stock

Select stock that is straight and true. Set up the router table with a fence and rout the tail of the sliding dovetail on the squared stock (see Fig. 1).

Adjust the fence and rout the pin of the sliding dovetail on the surface opposite the tail (see Fig. 2). **Tip:** check your setup on scrap wood and see how it fits into the tail before actually routing the box.

### Separate the lid and install the decorative inlay

Rip the lid from the box (see Fig. 3).

Check the fit of the sliding dovetail—if it's too tight, make the necessary adjustments with a file. It also may be necessary to remove a small amount of material from the lid's underside with a belt sander.

After separating the lid from the box, rout the groove for the inlay banding (see Fig. 4). **Note:** there are many widths of inlay bandings available—if you prefer a width other than 1/4", simply substitute a router bit of the appropriate size.

Apply glue to the inlay banding and insert it in the groove, clamping it in place until dry.

### Rout the storage compartments

Referring to the Plan View Drawings, bore out the pilot holes for the storage compartments with a Forstner bit. Use a 1-3/8" bit for the stamp box, and a 3/4" bit for the other three box designs.

If you're making the stamp box, cut the dispenser groove in one of the sides as shown in the corresponding Plan View Drawing found in Full Size Patterns Section No. 3. Neither the stamp box nor the tiny treasure box require routing of the storage compartment, so these are ready to be finished at this time.

Rout the remaining storage compartments with the 3/4" straight bit. Do not rout the compartments to their finished depths all at once—rather, make several passes, gradually increasing the depth until the desired

dimensions have been attained.

Insert the 3/4" straight bit into the 3/4"-Dia. pilot hole previously bored, making sure that the router is turned off. Next, place the fence against the box and clamp it in place. Make a pencil mark on the box and a corresponding mark on the fence. Remove the box, then measure and mark the fence for the length of the storage compartment you wish to make (see Fig. 5).

Turn the router on, align the mark on the box with the corresponding mark on the fence, and lower the stock onto the bit. Rout the storage compartment until the mark on the box is even with the second mark made on the fence.

**Cautionary note:** this is an instance where using long stock will promote safety—you do not want your fingers too close to the router bit! We have found that for the pencil box, a few extra inches is sufficient, while the paper clip box is most safely made in groupings of three or four from a single piece of stock. Conversely, extremely long stock is also difficult to work with, so find a balance that seems both safe and comfortable.

Once the storage compartment has been completed, insert the lid into the box and cross-cut both components to their finished length.

### Make final adjustments and finish

Sand the box and lid with a belt sander, and true-up any unevenness between the two components. Once this has been done, hand sand the inside of the lid and box.

Finish your boxes by rubbing them inside and out with a clear oil finish.

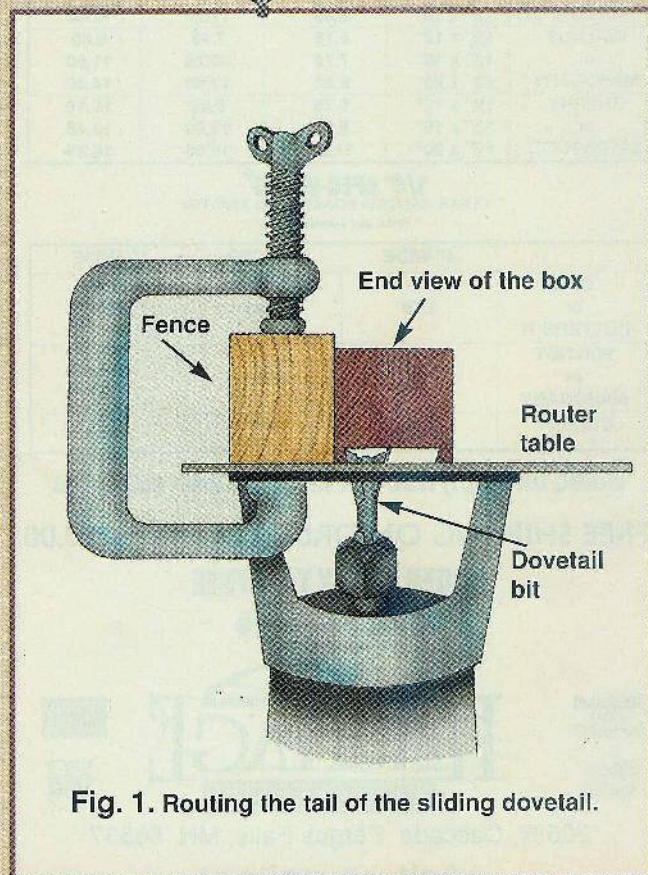


Fig. 1. Routing the tail of the sliding dovetail.

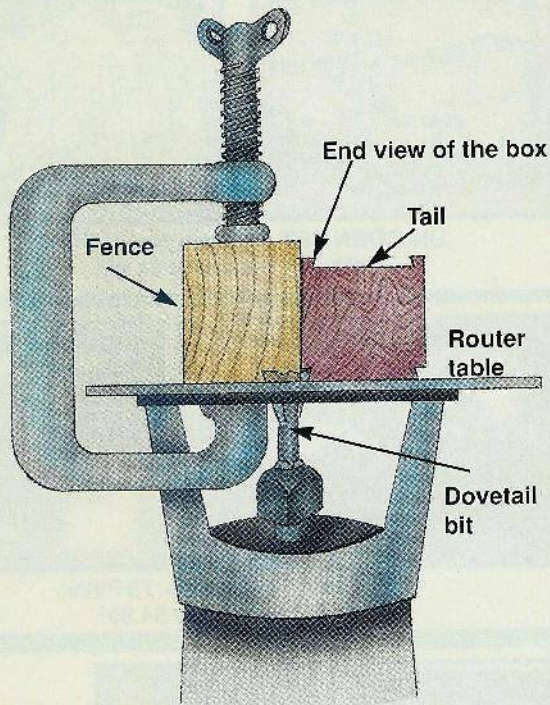


Fig. 2. Routing the pin of the sliding dovetail on the opposite surface from the tail.

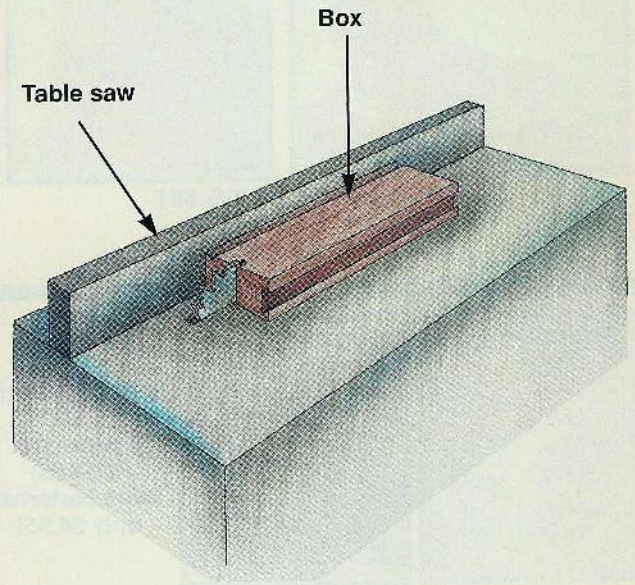


Fig. 3. Ripping the lid from the box.

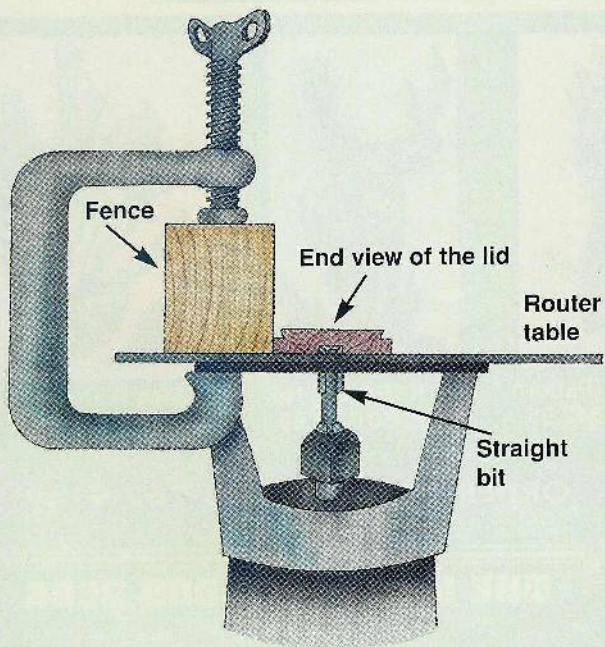


Fig. 4. Routing the groove for the inlay banding.

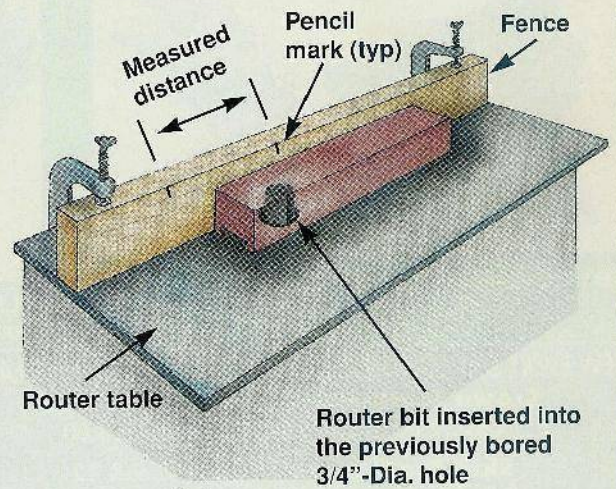
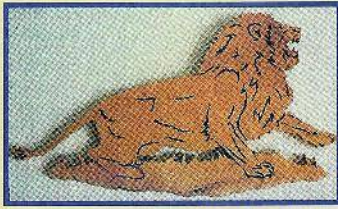
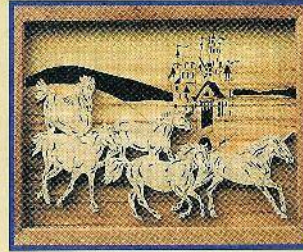


Fig. 5. Routing the storage compartment.

# ORDER THESE TERRIFIC PATTERNS FROM THE THE WOODEN TEDDY BEAR!



**CONTINENTAL KINGS SET**  
(Pattern No. TBP553)  
Both patterns only \$4.95!



**UNICORN SET** (Pattern No. TBP930)  
Both Patterns only \$4.95!



**HUMMINGBIRD SET**  
(Pattern No. TBP905)  
Both patterns only \$4.95!



**WOLF SET** (Pattern No. TBP929)  
Both patterns only \$4.95!



**WATCHFUL EYES SET**  
(Pattern No. TBP551)  
Both patterns only \$4.95!



**WILDCATS SET**  
(Pattern No. TBP907)  
Both patterns only \$4.95!



**RUBY HUMMINGBIRD** (Pattern No. TBP253) \$5.95



**BALD EAGLE** (Pattern No. TBP255) \$12.95



**ELK** (Pattern No. TBP501) \$7.95



**ZEBRA** (Pattern No. TBP502) \$6.95

## NEW EVERY DAY LOW PRICES ON OLSON SCROLL SAW BLADES!

**Crown Tooth-sizes** 2/0, 2, 3, 5, 7, 9 & 12  
1 doz-\$2.80 6 doz-\$14.00 12 doz-\$28.00

**Skip Tooth-sizes** 2/0, 2, 5, 7, 9 & 12

**Double Tooth-sizes** 1, 3, 5, 7, 9 & 12  
1 doz-\$2.00 6 doz-\$10.00 12 doz-\$20.00

**Reverse Skip Tooth-sizes** 2/0, 2, 5, 7, 9 & 12

**Spiral Tooth-sizes** 2/0, 0, 2, 4, 5 & 6  
1 doz-\$2.40 6 doz-\$12.00 12 doz-\$24.00

**Precision Ground Tooth-sizes** 5, 7 & 9

1 doz-\$4.00 12 doz-\$40.00

**SORRY-NO MIX & MATCH ON BLADES**

**ORDER TOLL FREE 888-762-9149**

or write to:

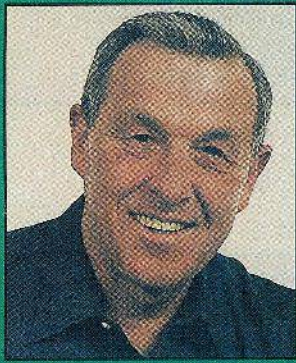
**THE WOODEN TEDDY BEAR**

P.O. BOX 33917  
PORTLAND, OR 97292-3917

e-mail: [woodentedybear@integrityonline.com](mailto:woodentedybear@integrityonline.com)

Shipping & Handling: please add \$3.00 per order for U.S. orders, and \$5.00 per order for Canadian orders.

**Request a FREE catalog!**



# You'll do your best wood-crafting ever — thanks to the projects, patterns and helpful insider tips of Patrick Spielman, America's best-selling woodworking authority!

Six times a year you'll receive exciting and innovative designs all for just \$19.95!

- Fretwork • Ornaments
- Intarsia • Segmentation
- Toy Making • Plus much more!

Whether you craft for gift-giving, for profit or just for fun, you'll find the kind of scroll sawing projects you're looking for in *Patrick Spielman's Home Workshop News*.



▼ Detach the form below and mail today to start receiving *Patrick Spielman's Home Workshop News*. There's no need to enclose payment, we'll gladly bill you next month!

For credit card orders, have your card ready and call toll free: 1-800-562-1973 Monday through Friday 9 AM–9 PM Eastern time. Saturday 9 AM–4 PM.



YES! I want to subscribe to *Patrick Spielman's Home Workshop News*. Please enter my subscription and bill me just \$19.95 (six issues) next month. I understand if I'm ever unhappy with my subscription I can cancel and receive a refund for all un-mailed copies . . . no questions asked!

Please print clearly:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Bill Me  Payment Enclosed

Please bill my:  VISA  MasterCard Card #: \_\_\_\_\_

Expire Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Send to: *Patrick Spielman's Home Workshop News*  
PO Box 3000 • Denville, NJ 07834-9245

## CHIP CARVED BOX LID

by Wayne Barton



### SUPPLIES

Wood: *basswood*—1/2" x 7" x 9-1/2"

Carving tools: *chip carving knives*—a cutting and a stab knife; medium and ultra-fine ceramic sharpening stones\*

Mechanical pencil

Transfer paper

Sandpaper (optional)

Finish of choice

*\*If you have difficulty finding chip carving supplies, contact the Alpine School of Woodcarving Ltd., 225 Vine Ave., Park Ridge, IL 60068, (708) 692-2822.*

### Transfer and tool selection

Transfer the pattern, found in Full Size Pattern Section No. 3, onto the wood with graphite paper. **Hint:** you can transfer any single-line drawing or pattern to the wood by simply making a photocopy of it, placing it face down on the wood, and ironing it. The heat will drop the drawing from the paper to the wood.

A cutting knife and a stab knife are used for this project (see **Fig. 1 and 2**). Most of the work is done with the cutting knife, which is designed for the removal of stock. The stab knife, on the other hand, removes no wood at all. It is used solely for decorative purposes, making a wedge-shaped indentation as it is pressed into the wood. Even though it is used less, the stab knife is important because it makes its own designs and enhances the carving executed by the cutting knife (see the sidebar for tips on keeping your knives sharp).

## Carve the lid

For a good contrast of light and shadow, make your cuts at a 65 degree angle in the wood (see **Fig. 3**). When making curved cuts, stand the knife up as shown in **Fig. 4**. The tighter the curve, the more perpendicular the knife must be to the wood. If you drag an excess amount of metal around the cut, it will generally create a chatter or a choppy appearance. Remember, however, that the 65 degree side tilt of the blade must remain constant. Making crescent-shaped chips where curved lines are drawn will add fullness and a three-dimensional appearance to your carving.


To carve straight lines successfully, train your eye to look ahead of the blade. Never look at the blade itself and never use a straight edge as a guide.

When two tapered chips of the same shape must be brought to a single point (see **Fig. 5**), you will be able to keep the center ridge straight and unbroken if you bring only one chip all the way to the center and hold the

second back slightly. This is especially true when cutting cross grain.

Make all of your cuts only as deep as necessary to remove a chip. Avoid any excessive undercutting that might inadvertently remove wood you want to remain. Your work should look clean and crisp, so don't leave little bits of wood in the bottom of your cuts.

## Finishing

You may want to lightly sand the box and lid edges, but be careful not to sand away the carved areas, and do not use your carving knives on the box lid after you have sanded. Remove any sawdust, then apply finish of choice. 

*Continued on page 46*

*Based on Chip Carving Patterns by Wayne Barton, reprinted by permission of Sterling Publishing, Co., Inc., 387 Park Avenue South, New York, NY 10016, c 1990 by Wayne Barton.*

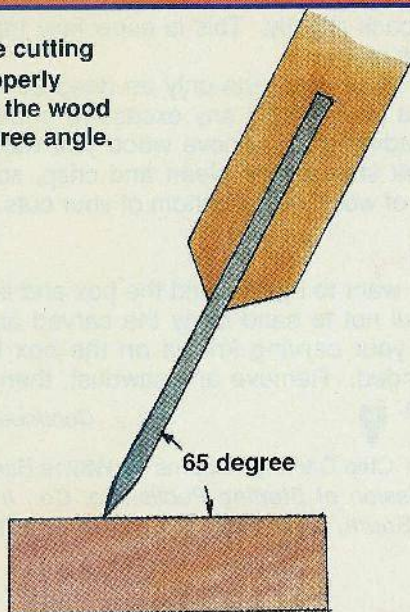


**Fig. 1.** For most chip carving projects, the only tools you need are: ceramic sharpening stones in medium grade and ultra-fine grade; a dime (to approximate the sharpening angle); a stab knife; a cutting knife; a compass; a mechanical pen; a ruler; an eraser.

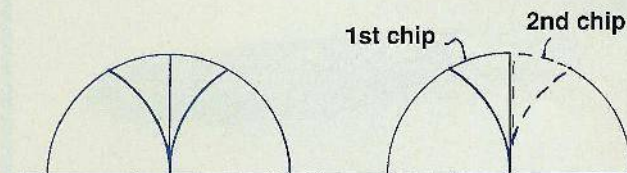
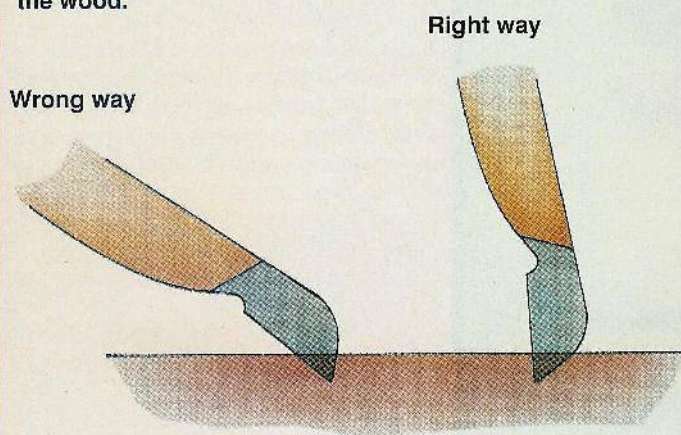
**Fig. 2.** Chip carving knives. The cutting knife (bottom) is primarily used to remove wood while the stab knife (top) is used for decorative purposes.



**Fig. 3.** The cutting knife is properly inserted in the wood at a 65 degree angle.



**Fig. 4.** When making curved cuts, stand the knife perpendicular to the wood.

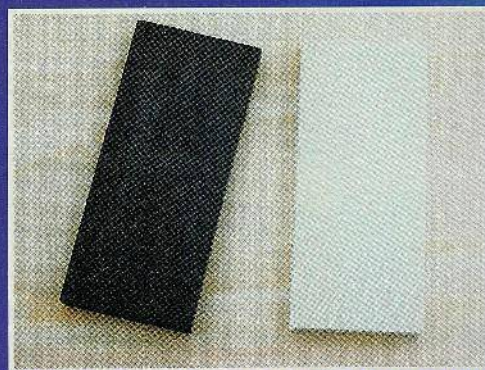


**Fig. 5.** Two tapered chips of the same shape brought to a single point.

## Keeping Your Knives Sharp

For crisp, clean carving, you'll need to sharpen your knives and keep them sharp. Two flat ceramic sharpening stones will do the job (see Fig. 1). Use the medium-grade stone first for shaping and sharpening, and then the ultra-fine stone for polishing the blade and keeping the edge freshly sharp. After you've done the initial shaping and honing, the ultra-fine is all you need to maintain your edge. You should be able to sharpen the blades to a mirror finish. Depending on the type of wood and how many cuts you make, you will need to freshen the blade only once or twice in a day's carving.

It is imperative that you get the proper angle on the two knives. Sharpen the cutting knife at about a 10 degree angle or less. A dime placed under the back edge of the blade will approximate this angle (see Fig. 2). This angle is a maximum. In many cases, you may choose to sharpen the cutting knife at an even flatter angle. Proper angling is extremely important if the blade is to flow through the wood smoothly and easily. Sharpen the stab knife at approximately 30 degrees, which is about what the factory-established angle is on a new blade.



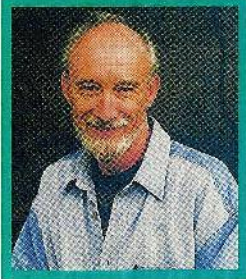
**Fig. 1.** Two flat ceramic sharpening stones are recommended. The medium-grade stone (left) is used for shaping and sharpening, and the ultra-fine stone (right) is used for polishing the blade and keeping the edge freshly sharp.



**Fig. 2.** Determining a 10 degree angle.

# Wayne Barton, Carver

by Ivan Whillock



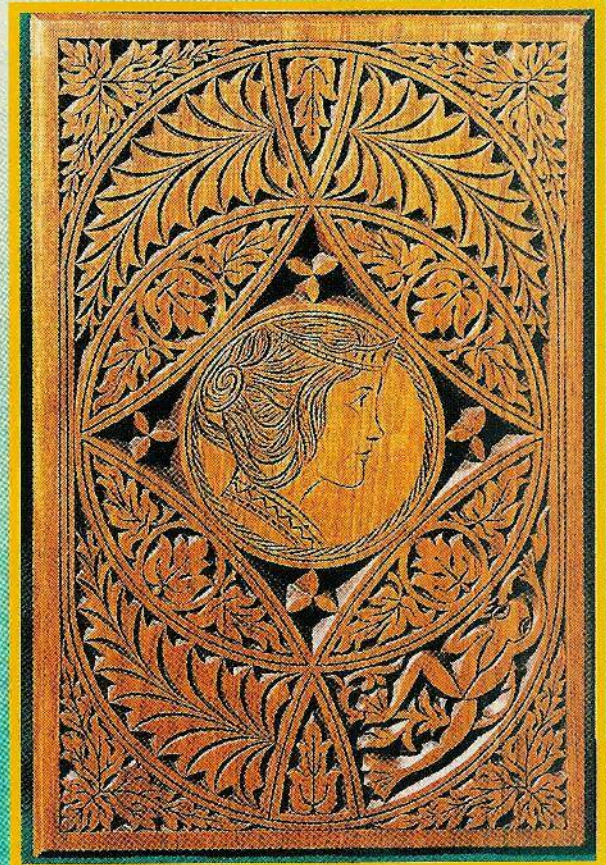
In the preface to his first book, Wayne Barton wrote, "As a small child, I sat at my grandfather's knee and watched him do magical and wonderful things to pieces of wood with his pocket knife. Then one day he called me to his side and put a pocket knife of my very own in my hand. I was thrilled, I was five years old and I was about to fall in love forever."

Just as his grandfather introduced Wayne Barton to wood carving, Wayne himself has done much to introduce the elegant Swiss style of chip carving to contemporary American carvers. In 1983, he wrote a series of articles for *Chip Chats*, the magazine of the National Wood Carvers Association, and soon thereafter published his first book, *Chip Carving Techniques and Patterns* (Sterling, 1984). Two books and numerous magazine articles have followed.

Wayne took his formal training in Brienz, Switzerland. Although he is versed in all disciplines of carving, Wayne specializes in Kerbschnitzen (Swiss for chip carving) and has won national and international acclaim for his work.

Wayne is the founder and director of the Alpine School of Woodcarving, Ltd., and devotes much of his time to teaching. He travels throughout North America and Switzerland conducting chip carving workshops. Readers can obtain a schedule of Wayne Barton's workshops by writing to the Alpine School of Woodcarving, Ltd., 225 Vine Ave., Park Ridge, IL 60068, or by calling (708) 692-2822.

Wayne presently resides in Park Ridge, Illinois with his Swiss wife Marlies and their children.



"Shown above are just a few examples of Wayne's magnificent chip-carving projects."

## Wood Carving for Beginners

by Ivan Whillock

Here is a compilation of Ivan Whillock's famous "Wood Carving for Beginners" three part series, featured in 1996 and 1997.

Wood carving is a learnable skill. All it takes is a bit of knowledge about carving tools and a little practice. Here we'll become familiar with carving tool selection, learn some basic techniques, and explore various types of carving: chase, level-surface, and modeled relief.

### Carving tools

While a wide range of carving tools is available to wood carvers—including both hand and power tools—traditional two-handed tools will be used for the projects shown here. They are of four types. A *chisel* has a straight cutting edge, while a *gouge* has a curved cutting edge. A "V" or *parting tool* is V-shaped, and a *veiner* is U-shaped.

The sweep of the tool (that is the shape of the cutting edge) is identified by a number. A No. 1 is a straight chisel, a No. 2 is a skew chisel. Gouges are identified by the numbers 3 through 11—the higher the number, the deeper the sweep. A second number identifies the size of the tool, corner to corner, either in inches or in millimeters. Therefore, a No. 7-20mm is a tool with a 7 sweep that is 20mm from corner to corner.

See Fig. 1 for a chart of the sweeps, 1 through 11, plus three V tool shapes.

Carving tools can also have several blade shapes. The most common are *straight*, *long bent*, *short bent*, and *back bent*, as shown in Fig. 2. As you shop, keep in mind that the tool sweeps and numbering systems between one manufacturer and another can be similar but not always identical.

### Sharpening

It is important to eventually learn to sharpen your tools to a razor sharp edge. You will need a coarse and a medium stone, a carver's slip, and a honing strop.

To sharpen a gouge, secure the stone on your bench. If it is an oil stone, cover the surface with honing oil. Grasp the tool well down on the handle, with

your index finger near the end of the tool. Freeze the tool along your arm at an approximate 15 degree angle to the stone. Move the tool side to side, at the same time rotating it so that you grind the entire sweep (see Fig. 3). If the tool is blunt, go from a coarse to a medium and then to a fine stone to speed up the process. Work the tool until you have turned over a burr, which indicates that you have gone past the original edge. Use a carver's slip on the inside to remove the burr. I recommend an AS 22 which has a rounded edge for gouges and a pointed edge for V tools. Finally, polish the tool by pulling it across a strop loaded with a light coat of aluminum oxide or a polishing compound, as shown in Fig. 4.

To sharpen a chisel, move it side to side without rotating it because, of course, it doesn't have a curved sweep. To sharpen a V tool, do the two sides as if they were chisels and sharpen the bottom of the V as if it were a gouge.

As you carve, you can keep your tools sharp by stropping them now and then, as a barber strops the razor before and during a shave.

### Wood selection

Hardwoods make the best carving woods. Cherry, oak and walnut, which are good for furniture, carve well. Basswood (linden) and butternut, less used for furniture, carve even better. Most soft woods, with alternating hard and soft grains, are poor carving woods.

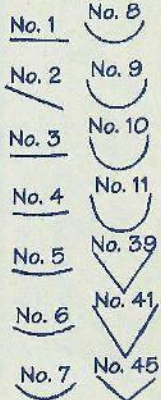


Fig. 1. Tool sweeps.

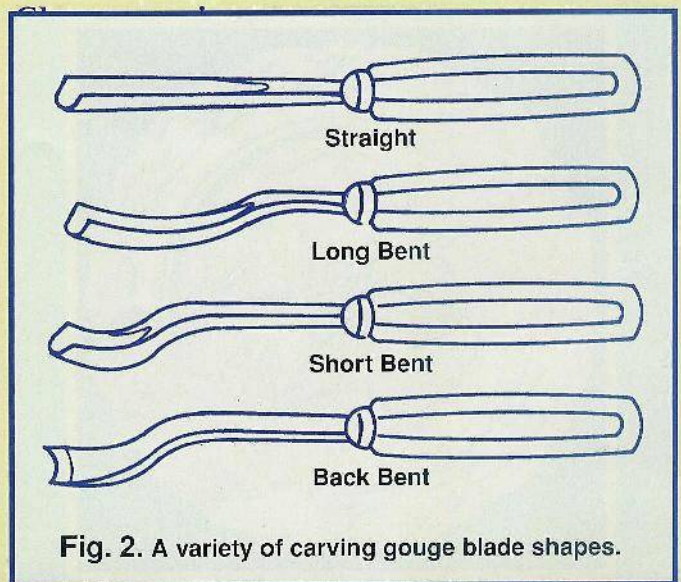


Fig. 2. A variety of carving gouge blade shapes.

In chase carving, gouges and V tools are used to incise designs in the wood without taking away the background or modeling the forms. A good place to begin is with the example shown in Fig. 5. The pattern is a single line drawing.

Use carbon paper to transfer the design onto a piece of hardwood. With a No. 11-2mm gouge, carve an even groove along the lines of the pattern. Two hints: first, to follow a line, dissect it with one edge of the blade. Focus on just one edge of the tool as it cuts through the line. Second, keep a consistent tool depth by controlling the angle of the tool with your blade hand (see the accompanying sidebar). You must grasp the tool firmly with that hand—you increase or decrease the depth by raising or lowering the handle. **Note:** never bury the corners of a carving tool, and never twist or pry with it. It is safe to use considerable force straight ahead, even with a mallet, but twisting is very hard on the edge.

### Level-surface carving

In chase carving, the design is cut into the surface. With level-surface carving, however, the background is carved away—the remaining surface becomes the design.

### Chisel patterns

Designs that are composed solely of straight lines are set in with chisels. It's easy to lay these types of patterns out on graph paper simply by shading in the areas that are to be removed. Most of the designs are composed of repeated patterns; so a small area can be designed and then repeated to fill the space to be decorated, as shown in the frame section of Fig. 6.

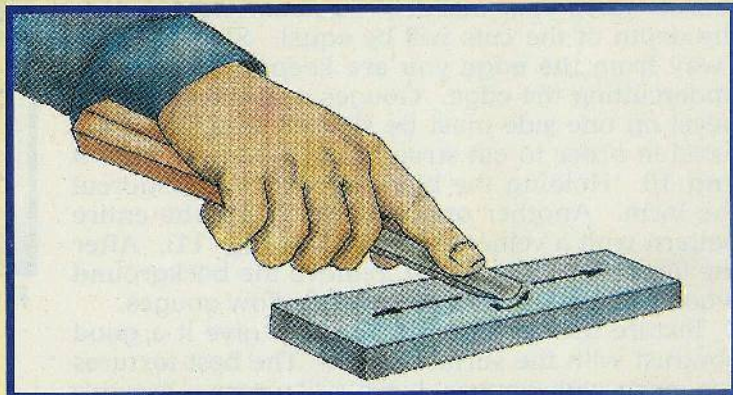
### Gouge patterns

Each gouge has an arc which can be used in various combinations to make decorative patterns. With a little time and imagination, you can press the tools into pieces of scrap wood to discover the arcs each will make, and then combine these arcs to create geometric or floral patterns. For example, a No. 5 tool has the arc shown in Fig. 7. By turning the tool to make use of its concave and convex functions, you can make a variety of forms like the ones shown. You can imagine the endless possibilities when tools of various sweeps and sizes are combined. The design shown in Fig. 8 was made using this technique.

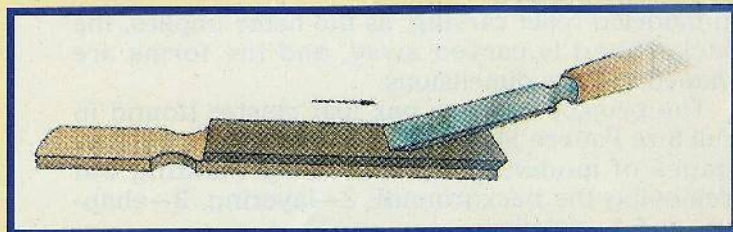
### Creating a level-surface carving

If you are doing a curved edge design, it is helpful to make the arcs match the gouges you have.

Set in the lines with chisels, gouges, and a



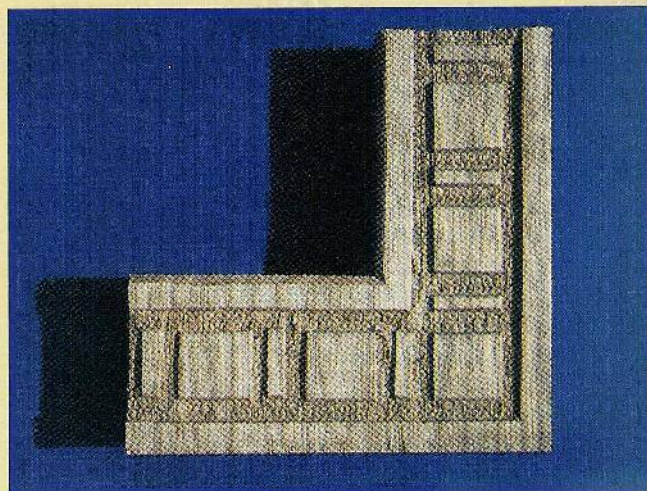
**Fig. 3.** Move the gouge side to side, while at the same time rotating it, to grind the entire sweep.



**Fig. 4.** Polish the cutting edge of the tool by pulling it across a leather strop.



**Fig. 5.** An example of a simple chase carving.



**Fig. 6.** A chisel pattern composed entirely of straight lines.

mallet. Keep your mallet strikes consistent so that the depth of the cuts will be equal. Slant the tool away from the edge you are keeping to prevent undercutting the edge. Gouges and chisels with a bevel on one side must be slanted away from the bevel in order to cut straight, as shown in Figs. 9 and 10. Holding the blade vertical will undercut the form. Another option is to outline the entire pattern with a veiner or V tool (see Fig. 11). After the lines have been set in, remove the background wood to the desired depth with shallow gouges.

Texture the background wood to give it a good contrast with the surface wood. The best textures are made with gouges, but a nail set or a carver's punch can be used as well.

Finally, carve whatever accent lines you want into the surface wood with a veiner or V tool.

### Modeled relief

In modeled relief carving, as the name implies, the background is carved away, and the forms are shaped in three dimensions.

The project here, an oak leaf cluster (found in Full Size Pattern Section No. 3), introduces the four stages of modeling in relief: 1—grounding out (removing the background), 2—layering, 3—shaping, and 4—detailing.

### Steps in carving the oak leaf cluster

**Grounding out.** To remove the background, use the V tool to put a stop cut around the outside lines of the pattern, as shown in Fig. 12. You can also use plunge cuts with the gouges to trim the edges. Lower the background wood about 3/8" below the original surface (see Fig. 13).

**Layering.** The three leaves are at different levels. The center leaf is the lowest, the leaf at the top of the pattern overlaps that, and the leaf at the bottom of the design is actually the highest. Make stop cuts around the leaves with gouges whose sweeps conform to the arcs of the perimeter, as shown in Fig. 14. Remember to tilt the tool away from the edge you want to keep (undercutting weakens the edge).

**Shaping.** Now that the background has been removed and the levels have been carved, the contours of the leaves should be shaped. First, a V cut is made through the center vein of each leaf (see Fig. 15). The surfaces of the leaves are then shaped to create visual interest (see Fig. 16). Use a No. 3-16mm gouge to shape the leaf. Use the tool right-side up for concave forms and the tool upside-down for convex forms.

Shape the acorn by first stop-cutting around the cap and rounding the shape by using a No. 3-16mm gouge upside-down. Use a No. 5-12mm to trim the bottom edges. The tool shape should automatically make the rounded cuts for you, as shown in Fig. 17.

**Detailing.** The details, which are always carved last, are the veins in the leaves, a few cuts in the

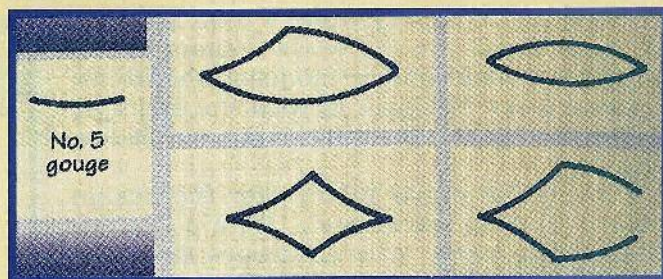


Fig. 7. The sweep of a No. 5 gouge and some examples of the geometric patterns that can be made with it.



Fig. 8. An example of a level-surface carving made with gouge patterns.

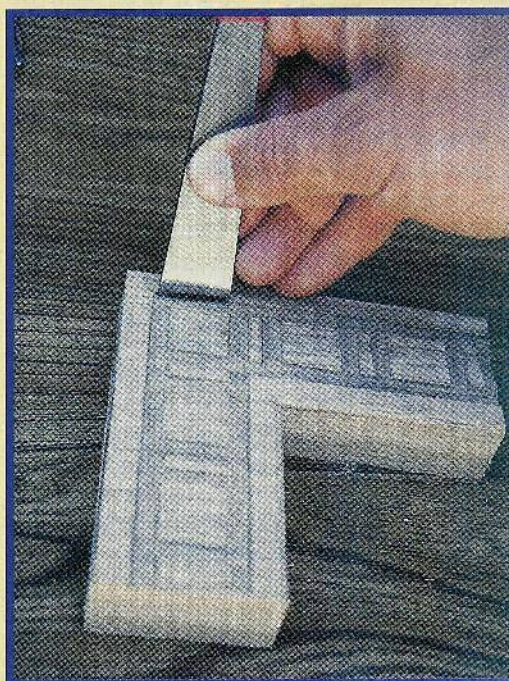



Fig. 9. Proper tool position for making a chisel pattern.

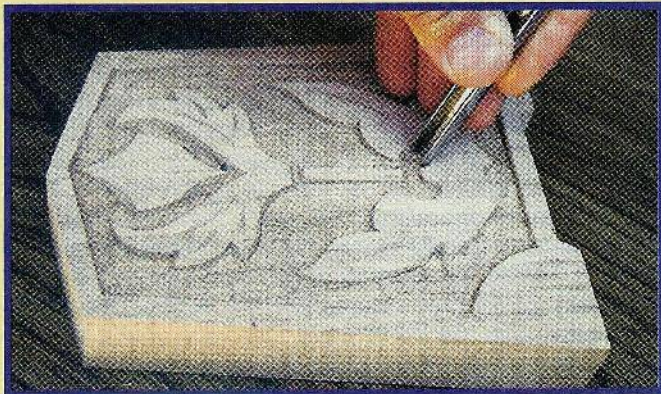
stem, and the crisscross cuts of the acorn. Use a No. 11-4mm gouge for the veiner cuts in the leaves. To create a sweeping flow, start the cut deep and then let the tool gradually come out of the wood so that the cut gets shallower as it flows to the stem. Curve the cuts; avoid straight lines. The crisscross cuts in the acorn top are V tool cuts (see Fig. 18).

Finish the carvings as you would any wood project, with stain, if desired, and varnish. Sealing the wood before staining it prevents the end grain

from darkening which would impart a blotchy appearance to the finished piece. 

*Ivan Whillock's latest book, Relief Carving Techniques, is packed with 20 projects and patterns and is available for \$17.95 including S&H from Ivan Whillock Studio, 122 NE 1st Ave., Faribault, MN 55021. MN residents please add 6.5% sales tax. Catalogs and class schedules are also available from this address. And check out Ivan's brand new web-site at <www.whillock.com>.*

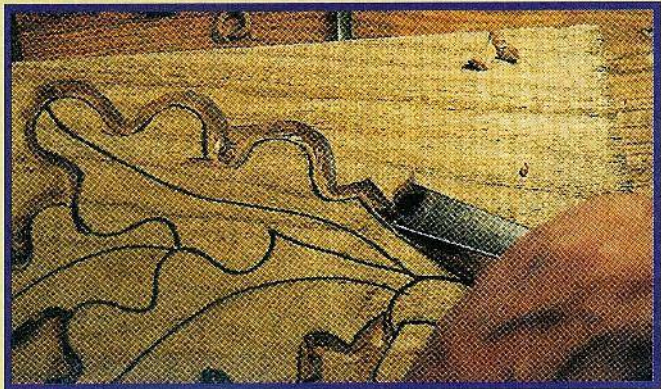
*Continued on page 52*



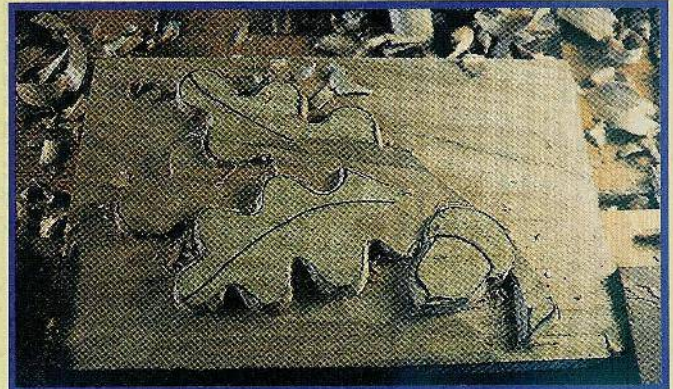
**Fig. 10.** Proper tool position for making a gouge pattern.



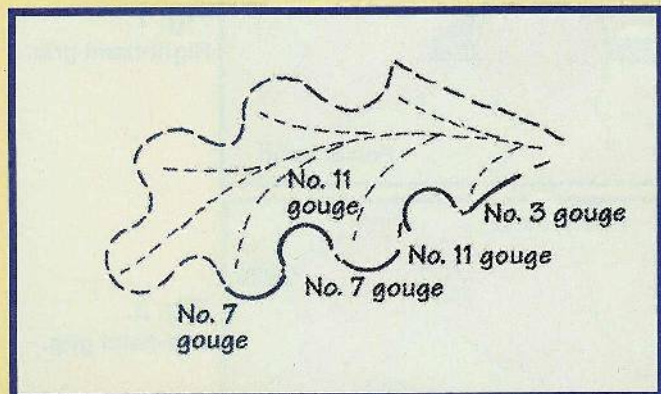
**Fig. 11.** Using a veiner or V tool.



**Fig. 12.** Using the V tool to outline the pattern.



**Fig. 13.** Lower the background by about 3/8".

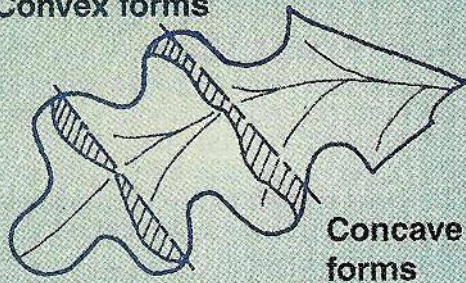


**Fig. 14.** Outline the leaves with a series of plunge cuts using gouges which conform to each shape.



**Fig. 15.** Make a V cut through the center vein of each leaf.

Convex forms



Concave forms

Fig. 16. Cross sections of a typical leaf.



Fig. 17. Trim the bottom of the acorns with the No. 5-12mm gouge.

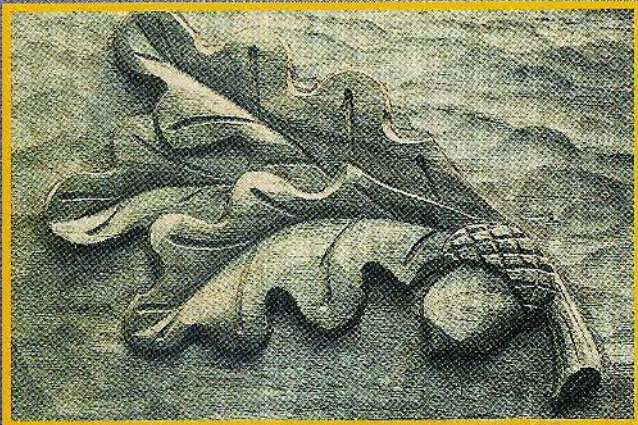
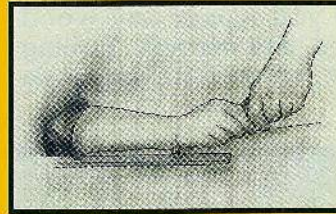


Fig. 18. The finished carving. Sealing the wood prior to staining it keeps the stain from looking blotchy.

## Some Additional Carving Advice

### Clamping the workpiece to the bench

In any carving, the workpiece should be secured in such a way that both hands are free to manipulate the tools. Never attempt to hold the workpiece with one hand and carve with the other.



The standard carving posture.

### Proper posture and proper tools

When working with a gouge or V tool, place the guide hand partly on the handle and partly on the blade, while the power hand is only on the handle (see Figs. 1 and 2). The thumbs are together and the knuckles up. The wrist of the lower hand rests on the work or on the bench. Each hand works in opposition, the blade hand exerting control while the handle hand supplies the force. When using a mallet, the posture is the same except that the top hand holds the mallet. For full control, grasp the tool tightly with the lower hand. It's very useful to learn to switch hands when grain changes: learn to carve both right and left handed. When you get used to it, you'll be pleased with the control that the two-handed method of carving will give you.

*Rule of thumb:* when deciding which tool to use for a particular cut, use the widest tool you can for the space you have to work in. Keep your tools sharp and try to produce crisp lines that don't require sanding, leaving a tool-cut surface. Sandpaper can spoil the "making marks" on a carving, and the grit tends to get into the pores of the wood and will dull your tools.

The best tools for relief carving are what are commonly known as full-sized chisels and gouges. These tools have a shoulder which allows them to be used with a mallet. Also referred to as "two-handed tools," they encourage better control because they are long enough to accommodate two hands.

### The proper way to grip a carving tool.

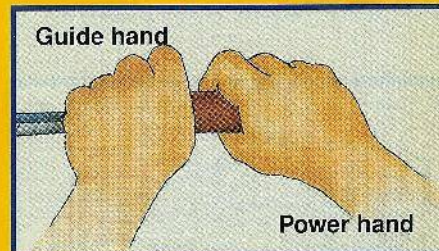


Fig. 1. Right-hand grip.

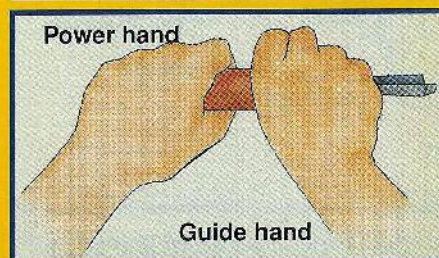
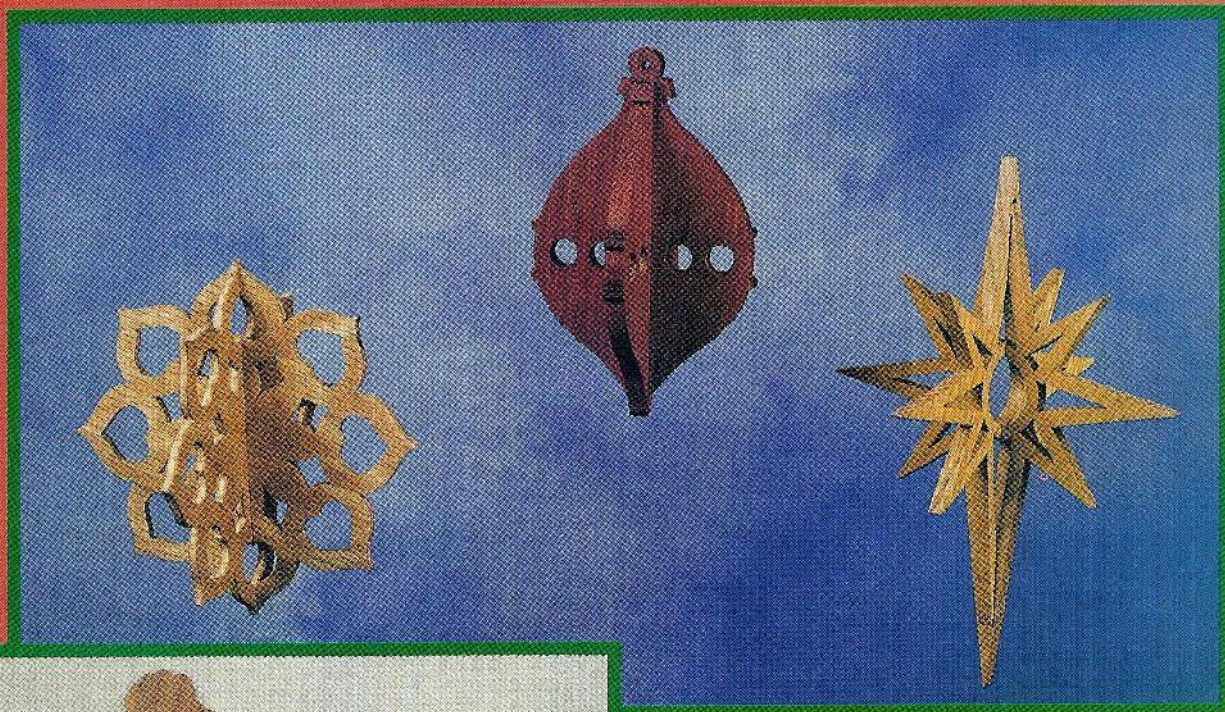


Fig. 2. Left-hand grip.

# Hardwood Ornaments

by Dirk and Karen Boelman



Here are some of our favorite ornaments from past issues of Wood Ornaments, our annual holiday special.



Continued on page 54

## SUPPLIES

Wood: 1/4" thick solid hardwoods of choice (we used mostly oak and cedar)

Tools: scroll saw; drill with bits; file

Temporary-bond spray adhesive

Sandpaper, assorted grits

Wood glue

Finish of choice

## INSTRUCTIONS

Attach the patterns, found in Full Size Pattern Section No. 1, to the wood. Drill blade entry holes for the interior cuts, then saw out the patterns, beginning with the interior cuts and finishing with the exterior (see Fig. 1).

**Note:** you can also stack saw these ornaments. For 3-D ornaments, just make sure to use the same thickness of wood throughout the stack so that the slot will remain the correct size. To obtain a good fit, place your wood on edge in the slotted area of the pattern and trace around it, as shown in Fig. 2. When sawing, saw to the inner edge of your tracing; it's better that the joints be a little snug than too loose (see Fig. 3).

If the fit of the joints is too tight, don't force the parts or they might break. Instead, use a file or sandpaper to widen the openings.

Remove the patterns and sand as needed. Assemble and glue the 3-D ornaments together, then apply finish of choice.



Fig. 1. Drill blade entry holes for the interior cuts.

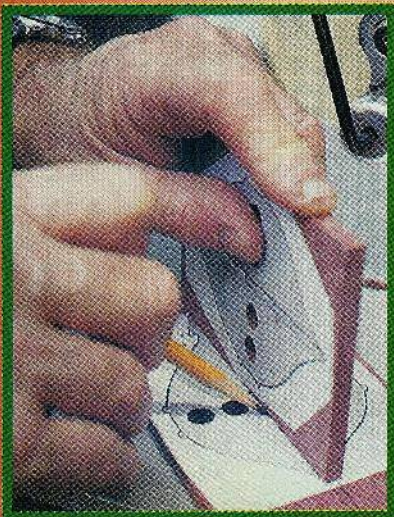


Fig. 2. Trace the thickness of your wood into the slotted area of the pattern for a perfect fit.

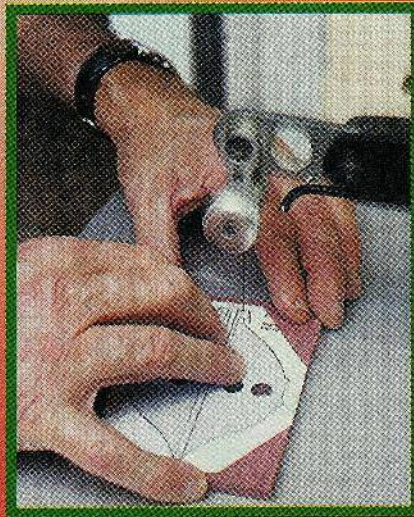
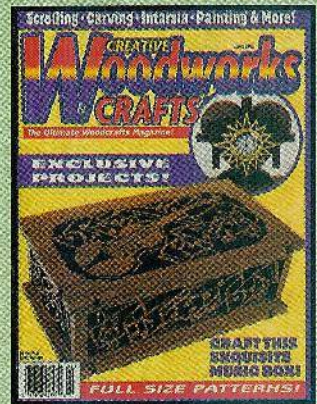


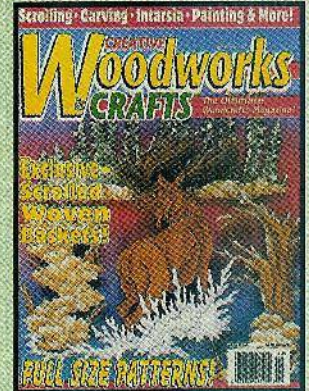
Fig. 3. Saw to the inner edge of your traced line—it can always be sanded later.

PLEASE ADDRESS ALL BACK ISSUE ORDERS (AND MAKE CHECK OR MONEY ORDER PAYABLE) TO: SEYCO, THE SCROLL SAW SPECIALISTS, INC. P.O. BOX 1900, ROCKWALL, TX 75087, (DEPT. B-10)



June 1998

Fretwork Music Box, Religious Mini Clock, Mini Wall Bar, Lighthouse Silhouette, and more!



December 1997

Scrolled Baskets, Family Tree, Thunderbird Silhouette, Carving a Santa Ornament, and more!

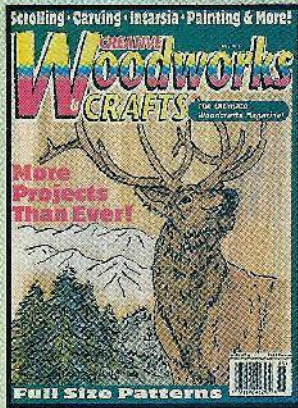


Scroll World

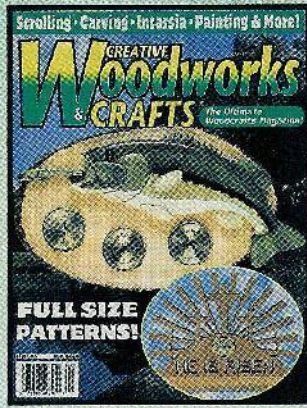
Two Full Size Pattern Sections! African Mini Clock, "Crown of Thorns" Wall Shelf, Fall Harvest Relief Plaque, Impala Antelope Intarsia, Nature's Way Plaque.

# CREATIVE WOODWORKS & CRAFTS BACK ISSUE SALE -

ORDER NOW WHILE SUPPLIES LAST! FREE SHIPPING ON ALL NORTH AMERICAN ORDERS! Orders outside N. America call for shipping costs.  
EACH ISSUE \$5.00 • 5 ISSUES \$23.00 • 8 ISSUES \$34.00 • 10 ISSUES \$40.00



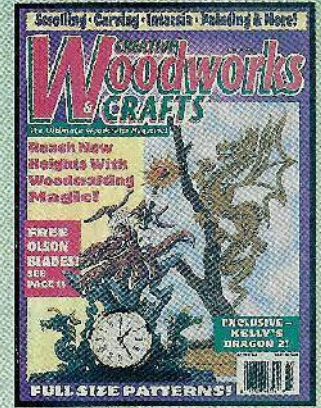
May 1998  
Elk Plaque, Big Buck Silhouette, Rhino Intarsia, and more!



April 1998  
Religious Mini Clock, "Hungry Bass" Intarsia, Carving a Polar Bear, and more!



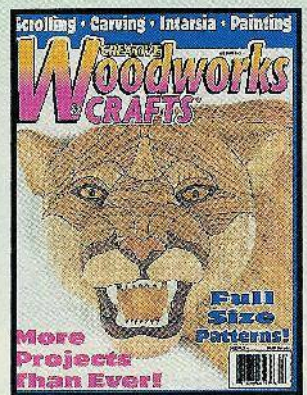
March 1998  
Fretwork Trivet, Scrolled Phone & Accessory Stand, Northwoods Nightlight, and more!



February 1998  
Skier Puzzle, Kelly's Dragon #2, "Jesus In My Heart" Mini Clock, Red Tailed Hawk Plaque, and more!



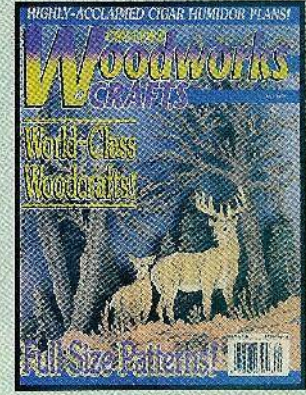
October 1997  
Praying Hands and RV Mini Clocks, Dinosaurs 4-Pack Toy, Santa Fe Pueblo, Fabulous Fretwork Clocks, and more!



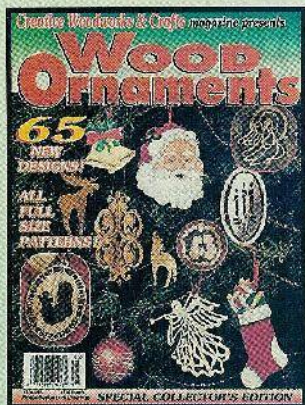
August 1997  
Intarsia Cougar, Cardinal Mini Clock, English Pipe Box, article on Marvin Kaisersatt - "Carver of the People", Two Wolf Scroll Saw Projects!



June 1997  
Tiger and Eagle Mini Clocks, Midnight Snacker (Raccoon) Intarsia, Fretwork Eagle, Carving a Frame, Christopher Mantel Clock, and more!



April 1997  
Six Awesome Mini Clocks, Boomerang, Lookout Canyon Plaque, Elegant Humidor, Wood Carving Part Three, Scroll Sawing Metal, and more!



Wood Ornaments - Winter 1996-97  
Featuring 65 Full Size Ornament Patterns!

## ORDERING GUIDELINES

- \* WRITTEN ORDERS ONLY, PLEASE.
- \* PLEASE ORDER ONLY FROM THE ISSUES SHOWN IN THIS AD - NO OTHERS ARE AVAILABLE.
- \* PLEASE USE THE PRICES SHOWN IN THIS AD; DO NOT ORDER FROM PAST BACK ISSUE ADS.

**PLEASE ADDRESS ALL BACK ISSUE ORDERS (AND MAKE CHECK OR MONEY ORDER PAYABLE) TO: SEYCO, THE SCROLL SAW SPECIALISTS, INC. P.O. BOX 1900, ROCKWALL, TX 75087, (DEPT. B-10)**

**ORDER COUPON** - This coupon may be photocopied, or you may write out your order.

Please enclose check or money order with payment, and make payable to "SEYCO, THE SCROLL SAW SPECIALISTS, INC." P.O. BOX 1900, ROCKWALL, TX 75087, (DEPT. B-10).

Please find enclosed my payment of \$ \_\_\_\_\_ for \_\_\_\_\_ back issues of *Creative Woodworks & Crafts*.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

LIST (MONTH & YEAR) THE ISSUES YOU WANT, AND HOW MANY OF EACH: \_\_\_\_\_

# Running Elk Plaque

by Scroller, Ltd.

Painted by Joanne Lockwood



Here is a popular project from the June 1996 issue—complete with never before published painting instructions!

## INSTRUCTIONS

### Make the captured frame and the backing

Transfer the frame pattern, found in Full Size Pattern Section No. 1, to the appropriate stock, and drill blade entry holes where indicated. With the blade square to the table, saw out the interior waste area of the plaque. To make the captured frame, tilt your saw table four degrees and cut around the interior line with a No. 7 blade. If your table tilts to the left, start your cutting in a counterclockwise direction. If it tilts to the right, cut in a clockwise direction.

Once cut, apply a little glue to both the plaque and the internal ring. Push the ring in from the back until it locks in place. Finish as desired.

Next, cut the backer board to the dimensions indicated.

### Cut the patterns to shape

Transfer the patterns, also found in Full Size Pattern Section No. 1, to the appropriate stock and cut to shape with a No. 2 blade, sawing in a clockwise direction. Leave at least 1/2" of material around each piece until

all of the interior details have been sawn, then make the exterior cuts.

### Paint the background

If you choose to paint the background, begin by dampening the backer board about two-thirds of the way down and then, working quickly, apply a wash of one part Straw to eight parts water using the 1" filbert mop brush (see Fig. 1). While still wet, and without cleaning your brush, add a wash of Pumpkin, starting at the bottom of the Straw area and working about halfway up (see Fig. 2). While still wet and again without cleaning your brush, add a wash of Tomato Spice beginning at the bottom of the Pumpkin area and working about one third of the way up. Darken the edges a bit by adding a second coat of Tomato Spice and working it out into the center (see Fig. 3).

Clean your brush and, again referring to Fig. 3, apply a wash of Midnight Blue to the bottom for the water area. Wipe excess moisture on a paper towel, then streak the upper part of the sky with the brush. Don't overdo this step, just add enough to give the effect of a tiny bit of smoke in the air. Set the background piece aside to dry.

For all of the painting on the three elk, you will use

## SUPPLIES

Wood: *walnut*—3/4" x 11" x 15" (for the captured frame); *Baltic birch plywood*—1/8" x 18" x 24" (for the pattern pieces and spacers); 1/8" x 11" x 15" (for the backer board)

Tools: scroll saw with Nos. 2 and 7 blades; drill with bits; router with Roman ogee bit (optional)

*Delta Ceramcoat acrylic paints*: Autumn Brown; Bambi Brown; Burnt Umber; Charcoal; Golden Brown; Green Isle; Magnolia White; Midnight Blue; Pine Green; Pumpkin; Quaker Grey; Spice Tan; Straw; Tomato Spice; Trail Tan; Walnut

*Loew-Cornell paintbrushes*: American Painter Series—No. 1 liner (series 4350); No. 5 round (series 4000); 3/8" angular shader (series 4400); 3/4" wash (series 4550); La Corneille series—1" filbert mop (series 7600)

Finish of choice

six parts water to one part paint, except for the shading, which is done with full strength paint.

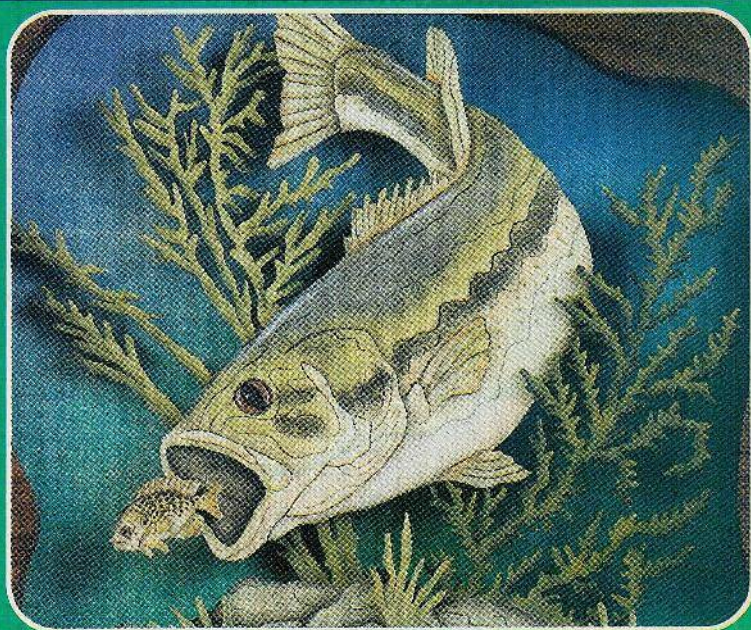
For the male elk, wash the entire piece with Spice Tan and allow to dry. Next, wash over the Spice Tan with Bambi Brown. The darker areas (see **Fig. 4**) are Burnt Umber shaded with Walnut. Antlers are Bambi Brown with a wash of Magnolia White over the top and then shaded on the bottom with Walnut. Hooves are floated with Walnut.

For the two female elk, wash both pieces with Trail Tan. The dark areas are a wash of Burnt Umber and then shaded with non-diluted Burnt Umber (refer to the main photo).

The ground pieces are washed with Golden Brown, then washed again with Trail Tan. Shade around the edges and veining lines with Autumn Brown.

Basecoat the rocks with Quaker Grey and shade with Charcoal. When dry, highlight with Magnolia

## TAKE YOUR SCROLL SAW PROJECTS TO NEW HEIGHTS WITH **DELTA CERAMCOAT ACRYLIC PAINTS!**



Why do the vast majority of *Creative Woodworks & Crafts'* decorative painters prefer Delta?

Here's why -

- \* 257 glorious colors!
- \* Colors blend beautifully!
- \* Superb coverage!
- \* A brand name you can trust!

*Delta Ceramcoat acrylic paints are available at art & crafts stores nationwide.*

Simply send \$3.00 (U.S. dollars) for the 52 page  
**ALL NEW Delta Beginning Guide to Decorative Painting**  
Please include your name, address, city, state, and zip to:  
Delta Decorative Painting Guide, Dept. 38008  
P.O. Box 496, Danville, IN 46122-0496  
Please make checks payable to: "Delta Beginning Painting Guide"



White around the top edges and veining lines.

The tall trees in the background are based with Pine Green and highlighted on the left side with a three to one mix of Green Isle and Magnolia White.

The tree in the left background is based with Green Isle and highlighted with Magnolia White. The trunk is Walnut.

The pine tree in the foreground and the three loose patches of grass are based in a mix of Green Isle and

Magnolia White, and highlighted with Magnolia White around the very top, the upper branches, and below the veining lines (see **Fig. 5**).

The grass on the ground piece is painted with Green Isle and shaded with Pine Green at the bottom of each section. The dead trees in the background are Burnt Umber.

Allow all pieces to dry, then apply finish of choice. Next, following **Figs. 6 through 10**, assemble and glue your Running Elk Plaque as shown.

*Continued on page 58*

# Painting The Running Elks

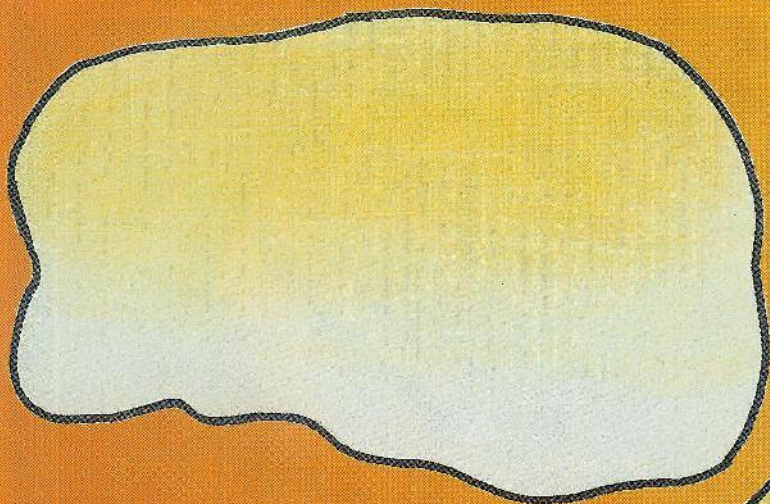


Fig. 1. Start the background with a wash of one part Straw to eight parts water using the 1" filbert mop brush.

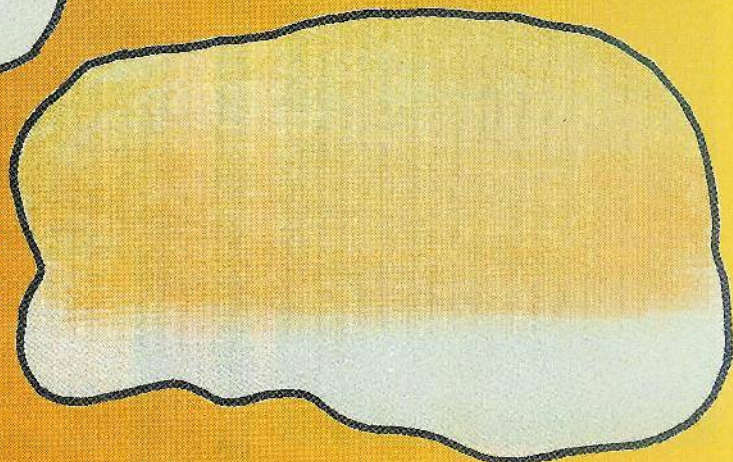


Fig. 2. Add a wash of Pumpkin to the background, starting at the bottom of the Straw area and working about halfway up.

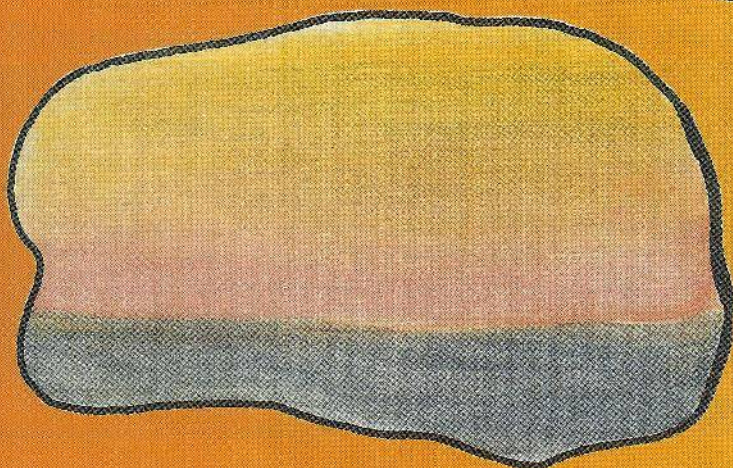


Fig. 3. Apply a wash of Midnight Blue to the bottom of the background for the water, then streak the upper part of the sky with the unrinsed brush.

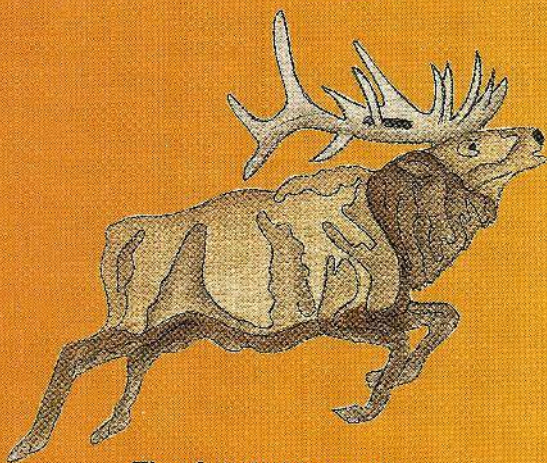


Fig. 4. Painting the elk.



Fig. 5. Painting the tree.

# Assembling The Running Elks

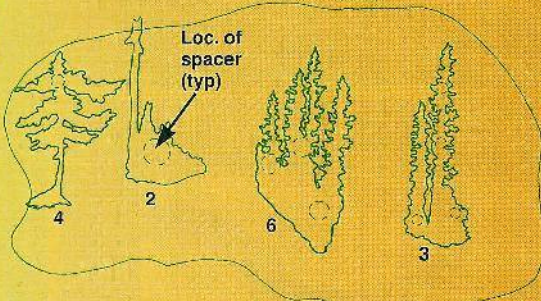


Fig. 6. Glue the spacers to the backs of the trees (2, 3, 4, and 6), then glue them in place on the plaque as shown.

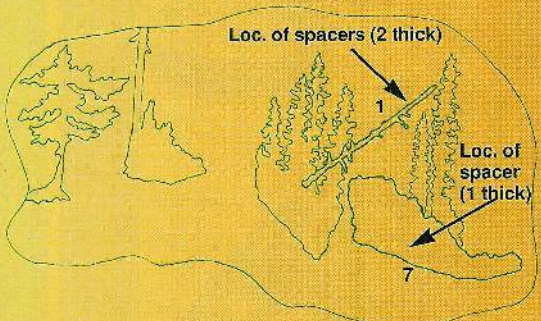


Fig. 7. Glue spacers to the tree (1) and rock (7), then glue the trees (1 and 5) and rock (7) to the plaque as shown.

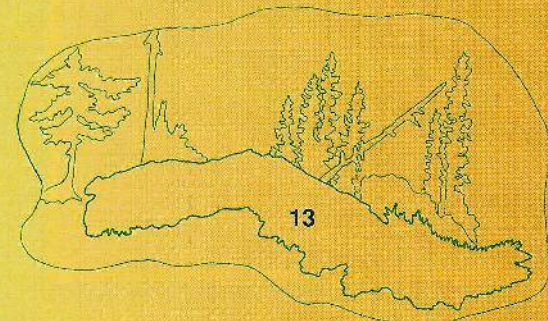


Fig. 8. Glue the spacers (4 thick) to the back of the land (13) and then glue it to the plaque.

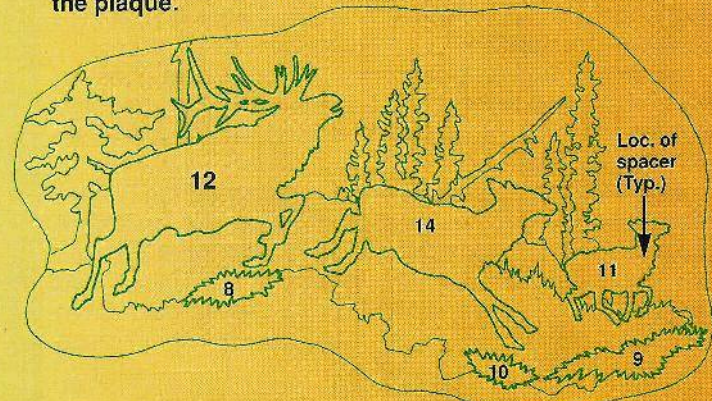


Fig. 9. Glue spacers to the back of the elk (11, 12 and 14) and glue the three shapes to the plaque. Glue the grass (8, 9, and 10) to the land as shown.

## WILDLIFE INTARSIA DESIGNS

by Robert J. Hlavacek, Sr.  
Chairman of the Board

Phone: 708-788-6455  
VISA, M/C ACCEPTED



"DOBERMAN"  
21 pcs. - 13" x 15"  
PATTERN # M-25  
\$6.50



"RED FOX"  
34 pcs. - 8" x 12"  
PATTERN # M-27  
\$6.95



"1873 CARBINE"  
23 pcs. - 42" x 7"  
PATTERN # G-01  
\$7.95



"1873 ARMY .45"  
29 pcs. - 12-1/2" x 5-3/4"  
PATTERN # G-02  
\$7.50



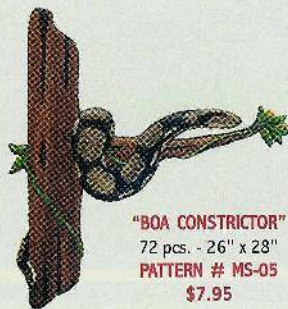
"LAB & MALLARD"  
103 pcs. - 15" x 21"  
PATTERN # M-22  
\$7.95



"MULE DEER"  
49 pcs. - 18" x 26"  
PATTERN # M-30  
\$7.95



"LLAMA"  
22 pcs. - 11" x 21"  
PATTERN # M-24  
\$6.95



"BOA CONSTRICTOR"  
72 pcs. - 26" x 28"  
PATTERN # MS-05  
\$7.95

**TO MAIL ORDER:** List pattern number, name & price. Add Shipping & Handling, \$2.00 U.S. - \$3.00 Canada, Per Order. (Illinois residents only, add 8 3/4% Sales Tax) Make Check or Money Order (U.S. Funds) Payable to: Chairman of the Board

Send to: Robert J. Hlavacek, Sr.  
P.O. Box 1246 • North Riverside, IL 60546-0646

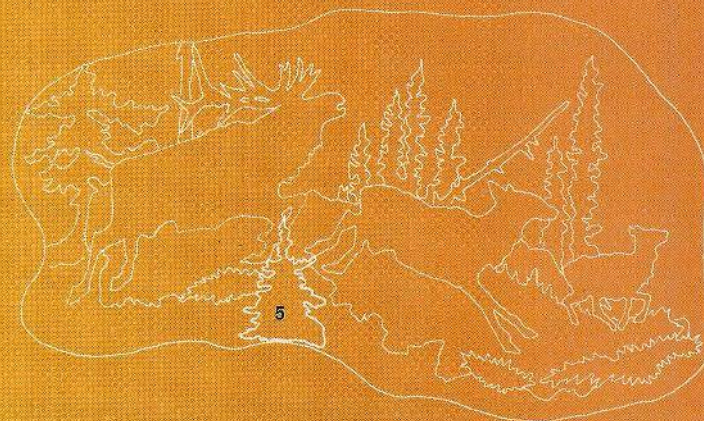


Fig. 10. Glue the remaining tree (5) in place.

# Ocean Plaque

by Alfred E. Bavart



We took this beautiful plaque, originally featured in the October 1993 issue, and updated it with Plexiglas to create a stained glass look.

## INSTRUCTIONS

### Make the plaque

Adhere the pattern, found in Full Size Pattern Section No. 3, to the birch plywood. Drill holes in the waste areas of the plaque and cut out the design.

Remove the pattern, then trim the plywood panel to finished dimensions. Sand as needed.

### Cut the acrylic glass

We gave the Ocean Plaque a new look by affixing pieces of Plexiglas to the back, creating the illusion of a

stained glass piece. Cutting the Plexiglas was easy with a relatively new tool called the Rotozip SpirAcut spiral saw. Originally designed for the home improvement market, the SpirAcut spiral saw is gaining increasing recognition as a tool for serious crafters.

Start by making four copies of the pattern (one for each color) and adhere them to the Plexiglas. With the SpirAcut spiral saw, cut out the cloud area in the white acrylic (see Fig. 1).

Borrowing a technique from intarsia editor Robert Hlavacek, use the sawn out piece of acrylic as a template to mark an accurate cut line on the adjacent (yellow) acrylic (see Fig. 2). Saw out that piece and repeat the procedure until all of the pieces have been cut. Glue the acrylic glass to the back of the cut piece (see Fig. 3) and allow to dry.



## SUPPLIES

Wood: birch plywood—1/8" x 9" x 12"  
Tools: scroll saw with No. 5 blades; drill with 1/8" bit;  
Rotozip SpirAcut spiral saw with 1/8" sabrecut bit\*  
Temporary-bond spray adhesive  
Sandpaper, assorted grits  
Finish of choice  
Plexiglas in Blue, Green, White and Yellow\*  
Tacky glue

*\*The plywood, Plexiglas, and Rotozip SpirAcut are available from Steebar Corp., P.O. Box 980-WC-19, Andover, NJ 07821-0980, (973) 383-1026.*

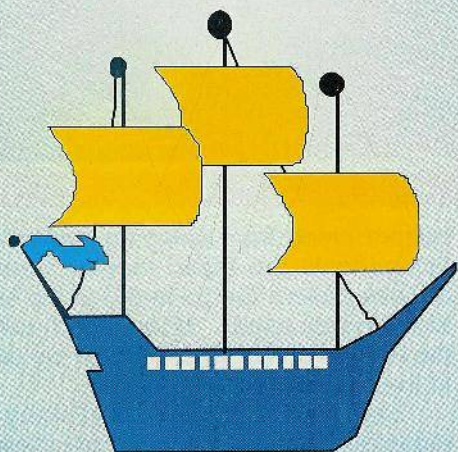


Fig. 1. Use the Rotozip SpirAcut spiral saw (or your scroll saw) to cut out the Plexiglas pieces.

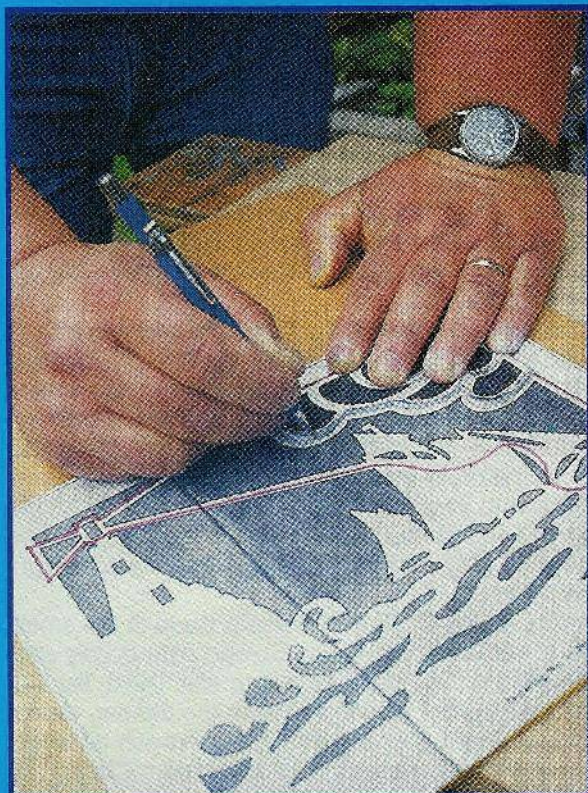


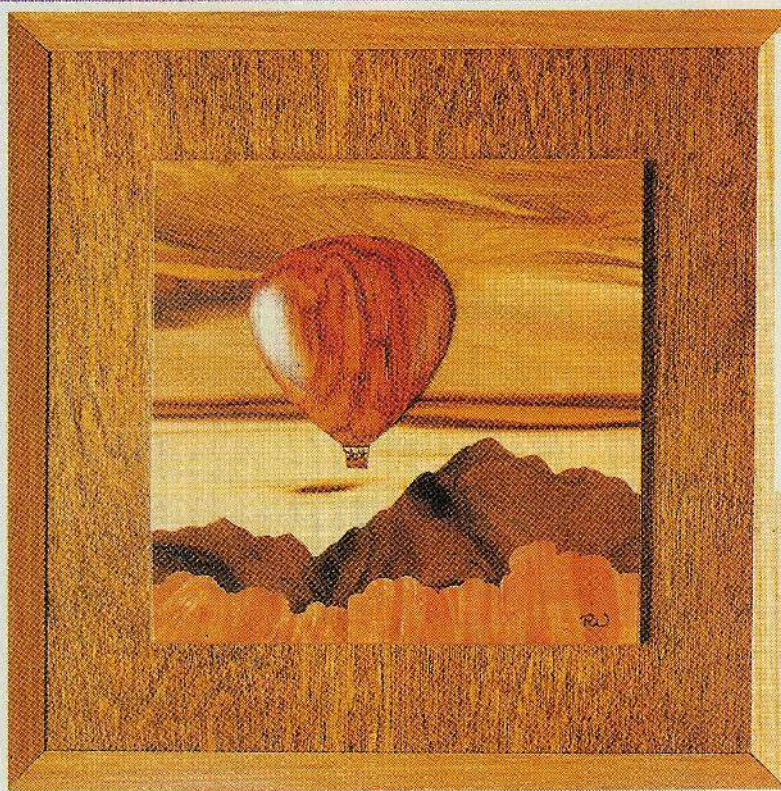
Fig. 2. Similar to intarsia, once a Plexiglas piece is cut, it can be used as a template to mark an accurate cut line on the adjoining piece.



Fig. 3. Affix the Plexiglas to the rear of the pattern piece.

# Relief Inlay Balloon Scene

by Robert Johnson



bottom piece from chipping. After all of the components are taped together, transfer the full size pattern (on page 65) to the top veneer with carbon paper. **Note:** don't worry about the balloon at this time; it will be cut and affixed to the picture later.

Saw out the pattern, beginning with the mountain top. Recheck for any movement of the veneers and retape if necessary. Next,

saw out the treeline (see Fig. 2).

## INSTRUCTIONS

### Introduction

Relief inlay is a craft that combines the techniques of wood inlay with wood sculpture. Robert Johnson and his father have been developing and perfecting this unique form of wood art for decades, and with this project, we are given the opportunity to learn something about this fascinating craft.

### Note on stock selection

When choosing stock, select veneers that have color and wood grain patterns that will enhance your picture. We used a light colored wood (red gum) for the sky and a contrasting medium (walnut burl) and dark (madrone burl) veneer for the mountains and trees, respectively (see Fig. 1).

### Lay out and cut the pattern

Arrange the veneers for sawing by overlapping the tree, mountain, and sky stock. Lay the tracing paper pattern over this arrangement and place masking tape anywhere you are going to cut the veneer. This will prevent the thin veneer from splitting. Next, lay smaller veneers over the bottom of the sky veneer.

Carefully tape the sides and bottoms together. Be sure to tape these well—if the veneers move at all during the cutting process, the pieces won't match. **Tip:** use a thin backer board while cutting to prevent the

### Assemble and glue

Assemble the contrasting veneers with the taped sides facing down (the back side of the picture is now facing up). Temporarily fasten the pieces together with masking tape. Next, turn the assembled picture right-side up and remove all of the tape from the front. When the front is clean, refasten the pieces with veneer tape, then remove the temporary masking tape fasteners from the back side.

The reason for switching from the masking tape (which is preferable to use while sawing the components) to the veneer tape is that the veneer tape is easier to sand off after the picture has been glued up. Trying to remove the masking tape after the image has been glued can ruin your picture.

At this point, you can do any small repairs (from the back of the inlay) that may be necessary, such as replacing any chip-outs or filling any gaps which might have occurred.

Referring to Fig. 3, glue the veneer down to the smaller piece of 1/4" birch plywood. Spread glue evenly over the plywood, then lay the inlay on top of it. Next, lay a 6" x 6" piece cut from a plastic bag over the veneer, then a piece of Styrofoam over the plastic. Sandwich all layers between the two pieces of 1/2" plywood. Clamp the whole assembly together with four C-clamps. Tighten the clamps until the Styrofoam is flattened.

# OLSON<sup>®</sup>

## New Crown Tooth<sup>™</sup>

### Scroll Saw Blades



with 2 Way  
Cutting Action

**THE OLSON SAW CO.**  
16 Stony Hill Road  
Bethel, CT USA



*Crown Tooth<sup>™</sup>  
Scroll Saw Blades  
Offer the Next Generation  
in Tooth Design.*

- Crown Tooth shape cuts on both the up and down stroke
- Two way cutting action provides controlled feed for a smooth, splinterless finish and clean edges.
- Unique tooth geometry allows for easy blade installation - no top or bottom to worry about
- When worn, turn blade over for a fresh set of teeth!

*Ask your Olson Dealer for the  
New Crown Tooth<sup>™</sup> Blades Today!*

## SUPPLIES

Tools: scroll saw with No. 2/0 blades; drill press with sanding disc (optional); inflatable drum sander (optional)

C-clamps

Masking tape

Veneer tape

Wood burner or paint (for balloon basket)

Two pieces of 1/2" plywood, 6" x 6" (for clamping)

One piece of Styrofoam, 6" x 6"

Plastic bag

Scissors

Carbon paper

Tracing paper

Wood glue

Stain in Dark Walnut

Clear satin polyurethane

Frame

## BILL OF MATERIALS

Part	Description	Size in inches	Quantity
<i>Veneer:</i>			
A	Sky	1/32 x 5-1/4 x 5-1/4	1
B	Mountains	1/32 x 2-1/2 x 5-1/4	1
C	Trees	1/32 x 2-1/2 x 5-1/2	1
D	Balloon	3/16 x 2-1/4 x 2-1/4	1
<i>Birch plywood:</i>			
E	Veneer backing	1/4 x 5-1/4 x 5-1/4	1
F	Back piece	1/4 x 8 x 8	1

Let the glue dry for 12 hours, then unclamp and allow the picture to dry for a half hour more in open air.

### Sand and trim

Sand off the veneer tape, along with any excess glue, using 80 grit sandpaper (see Fig. 4). Next, carefully finish sand the picture with 220 grit paper. Trim the finished piece to 5" x 5".

### Cut and glue the balloon

Trace the balloon shape onto the stock selected and saw it to shape. The choice of stock for this component is entirely yours. Try to use wood which is very colorful or has an appealing grain pattern (see Fig. 5).

Sand the sides so that they are smooth and even. To bevel the edges of the balloon, start by rounding the balloon from the bottom to the top, then bevel the sides down from the center to

each side of the balloon. The shape of the balloon can be improvised and will ultimately depend upon the sanding equipment you use. We have found that a 120 grit sanding disc on a drill press works well.


Finish sand the balloon with 220 grit paper (we used an inflatable drum sander for this).

Position the balloon on the picture, making a few light pencil marks to aid in its placement, and glue the balloon in place.

### Finishing touches

When the glue has dried, lightly draw the basket in place with a pencil, then either wood burn or paint it on. Erase all pencil marks when finished.

Stain the larger piece of 1/4" birch plywood with Dark Walnut stain. Once dry, center the picture on the board, then glue and clamp it in place.

Frame the larger panel and apply two coats of clear satin polyurethane finish, sanding lightly between coats. 

*Continued on page 64*



Fig. 1. The veneers cut to size with scissors.

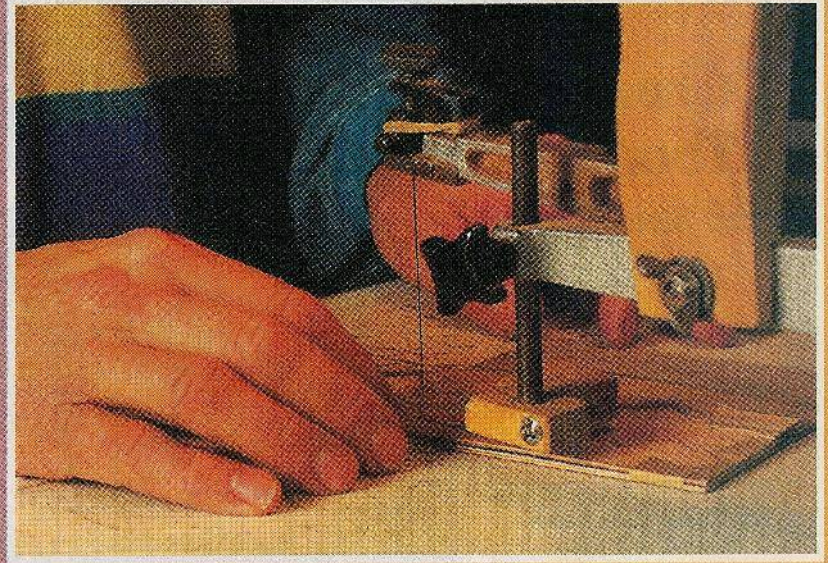


Fig. 2. Saw the mountain and tree pieces to shape.

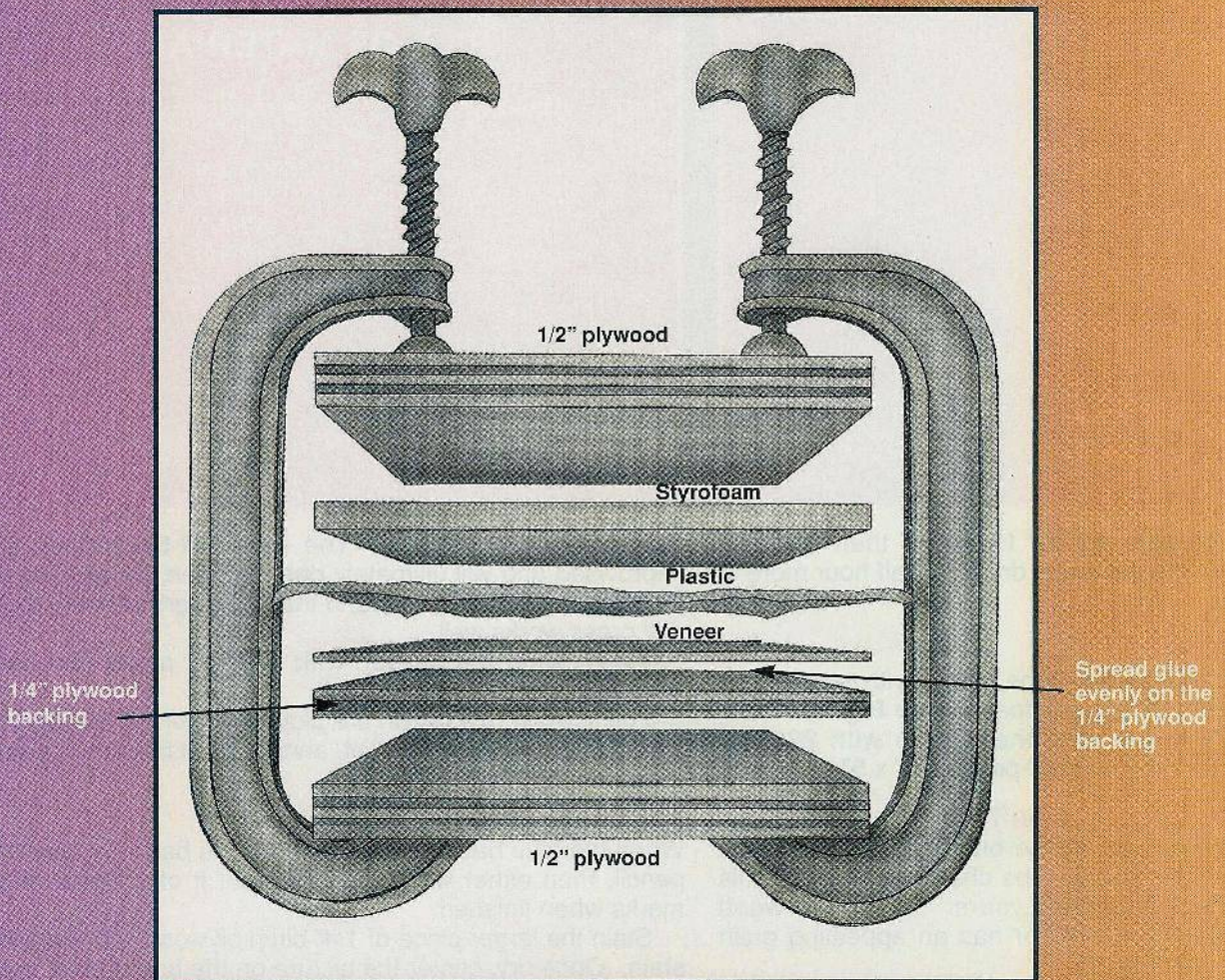


Fig. 3. Clamp the assembled veneers onto the 1/4" plywood backing.

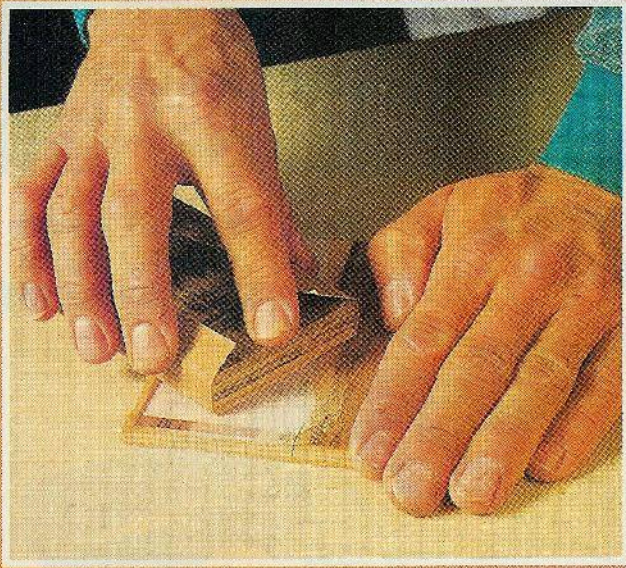


Fig. 4. Sanding the veneer tape off of the top surface.

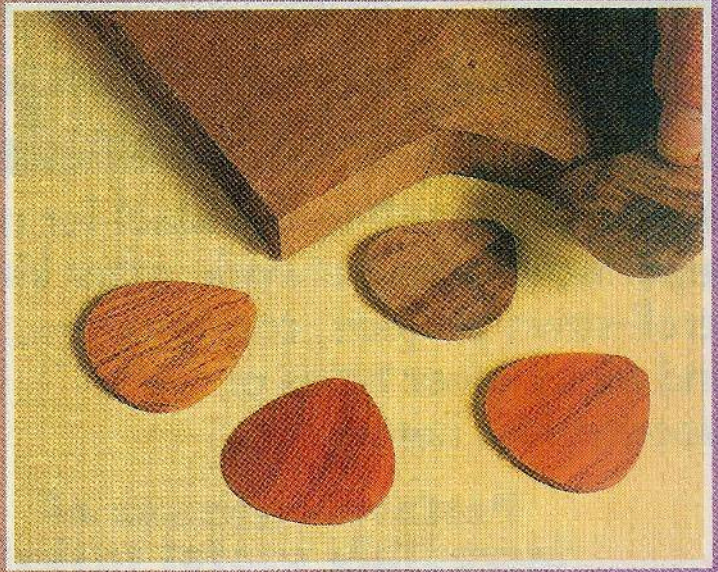
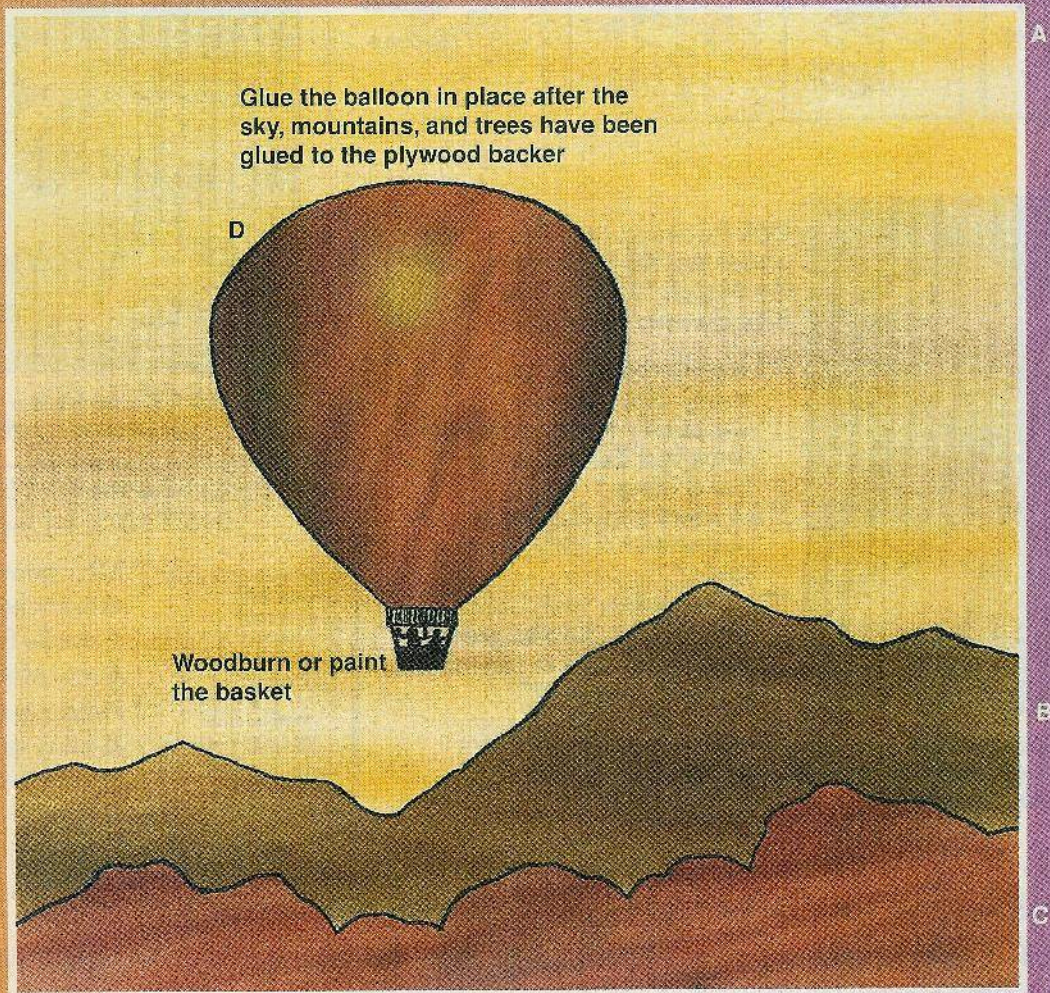


Fig. 5. The balloon can be made out of a wide variety of colorful woods.



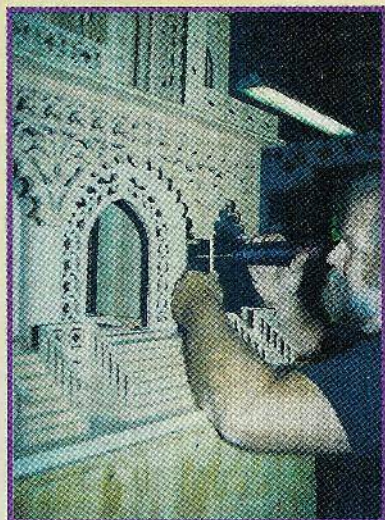
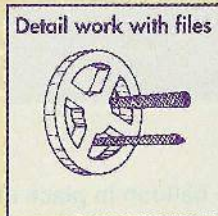
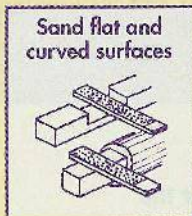
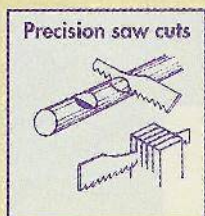
Full Size Relief Inlay Balloon Scene

# TREAT YOURSELF TO THE ULTIMATE CRAFT AND HOBBY TOOL ("THE SCROLLER'S BEST FRIEND")...THE KD-1 ELECTRO-FILE!

This cordless craft tool is ideal for removing imperfections on fretwork, other kinds of scroll-sawn projects, carvings, and many other types of woodcrafted items!

**PERFECT FOR SCROLL SAW ENTHUSIASTS!**

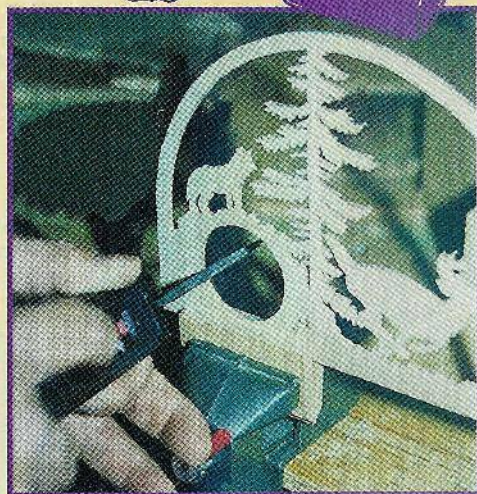
**Performs dozens of incredibly useful tasks!**



Dirk Boelman had this to say about the KD-1 Electro-file in the March '98 *Creative Woodworks & Crafts*:



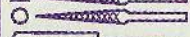
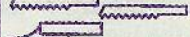

- "I highly recommend it to every scroll sawyer, especially to the many who have lost their love for hand filing."
- "An ideal supplement to motorized rotary carving tools."
- "It is versatile, well-built, affordable...works great, and as far as I'm concerned, it's long overdue!"

Scrolling Editor Dirk Boelman assembling his famous fretwork clock with the help of the KD-1 Electro-file.



"The KD-1 Electro-file is a dream come true for scroll saw enthusiasts."

Here's what the KD-1 Electro-file CRAFT TOOL KIT includes:

-  \* KD-1 power hand unit
-  \* 4-hour charger
-  \* 4 needle files
-  \* 4 saw blades
-  \* Paddle for sanding & 20 sanding strips in 2 grits (rasps available separately)

Save TIME, ENERGY, and MINIMIZE aggravation...order your KD-1 Electro-file craft tool kit today! To order the KD-1 kit, send check or money order for \$59.95 plus S&H to:

**KD Engineering, Inc., P.O. Box 195, Hubertus, WI 53033-9799.**

Add \$6.30 Shipping & Handling in contiguous U.S.A. For C.O.D. orders add \$5.00.

WI residents add 5.5% sales tax. Canadian residents call or fax for shipping charges. Sorry no credit card orders at this time.

For more information call 414-628-9666  
or Fax 414-628-9976

**ENGINEERING, INC.**  
PRECISION TOOLS

# GREAT WOODWORKING PLANS PRICED RIGHT!



**Archway Arbor**  
104" H x 36" W x 82" L  
Plan #192...\$9.95



**Blue Bird Houses**  
17" H x 9 3/4" W x 8" D  
Plan #73 - 2 styles...\$5.50



**Boy Fishing - 34"**  
Plan #140...\$4.50



**Garden Wishing Well**  
61" H x 26" W x 26 1/2" D  
Plans include full size templates  
Plan #185...\$6.00



**Lighthouse** - 64" H x 16" W x 30" L  
Plan #197...\$8.00  
**Windmill** - 48" H x 28" W x 28" L  
Plan #195...\$8.00



**Dutch Boy & Girl**  
36" H x 20" W  
Plan #196...\$5.95



**Three PVC Bluebird Houses**  
Plan #74...\$6.50

## Specialty Furniture Designs

797 W. Remus Road  
Dept. CWC-20  
Mt. Pleasant, MI 48858  
1-800-892-4026



Add \$3.00 S & H per order (not item)  
Color catalog \$3.00 free with order  
MI residents add 6% sales tax

## FREE TRIAL ISSUE OF QUICK & EASY PAINTING MAGAZINE!

We Invite You To Accept The Next Issue Of  
**QUICK & EASY PAINTING MAGAZINE** - A \$4.95 Value - **FREE!**

**QUICK & EASY PAINTING** is perfect for teaching you how to paint or helping you to become a better painter!

Each colorful, fun-filled issue gives you...

- ▼ Great Projects From Top Teachers!
- ▼ Full Size Patterns!
- ▼ Beginners Guides!
- ▼ Color Worksheets!
- ▼ Valuable Painting Tips!

4 Great Issues Only - \$11.95  
Save 40% off the  
Newsstand Price!

To receive your **FREE** Trial Issue, simply tear off the accompanying card and send it in, or write to:

**QUICK & EASY PAINTING**, P.O. Box 376, Mt. Morris, IL 61054-0376

Come paint with the staff of **QUICK & EASY PAINTING** at *The ULTIMATE Woodcrafting Festival!*





## BILL OF MATERIALS

Part	Description	Size in inches	Quantity
A	Base	1/2 x 9 x 9	1
B	Upper/lower plates	3/4 x 10-1/4 x 10-1/4	2
C	Lower center post	1/2 x 1/2 x 5-1/2	1
D	Lower dividers	1/4 x 6 x 5-7/8	4
E	Upper dividers	1/4 x 2-3/4 x 5-7/8	4
F	Upper center post	1/2 x 1/2 x 3-1/2	1
G	Side panels	1/4 x 1/4 x 9-1/2	4
H	Upper trim piece	3/8 x 1 x 11-1/2	4
I	Lower trim piece	1/2 x 1-3/4 x 11-3/4	4

## SUPPLIES

Tools: scroll saw with No. 5 reverse tooth blades; table or radial arm saw; drill with bits  
 Small brads  
 Wood glue  
 3" Lazy Susan bearing (No. 02Z21)\*  
 Stain and finish of choice

\*Available from Woodcraft Supply Corp., 210 Wood Country Industrial Park, PO Box 1686, Parkersburg, WV 26102-1686, (800) 225-1153.

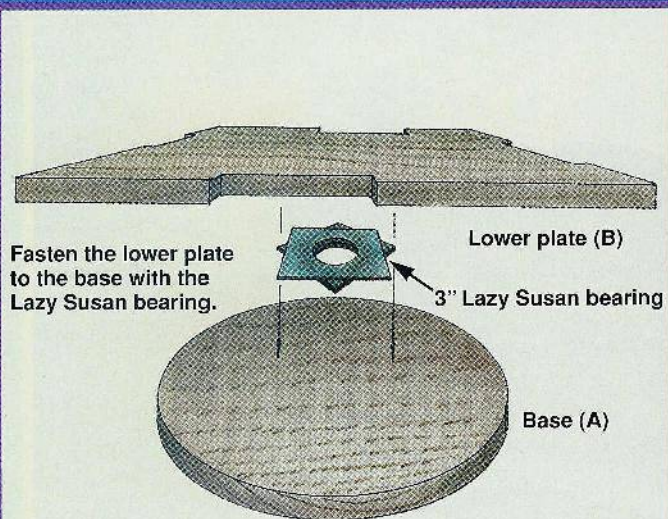


Fig. 1. The base assembly.

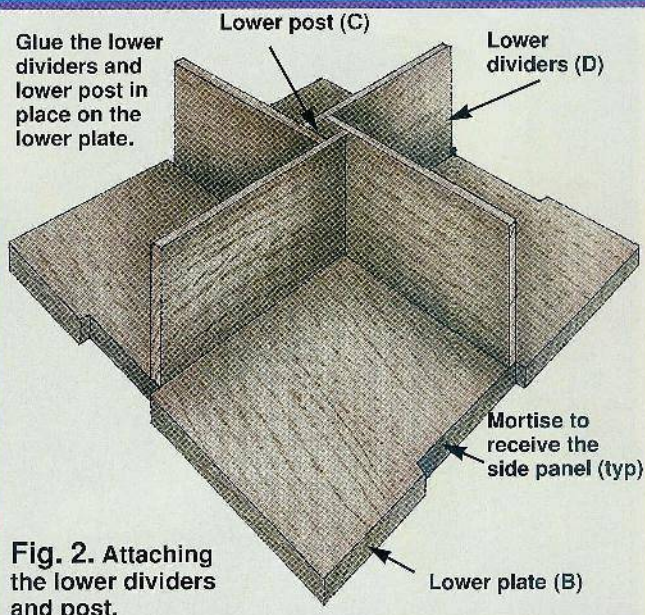


Fig. 2. Attaching the lower dividers and post.

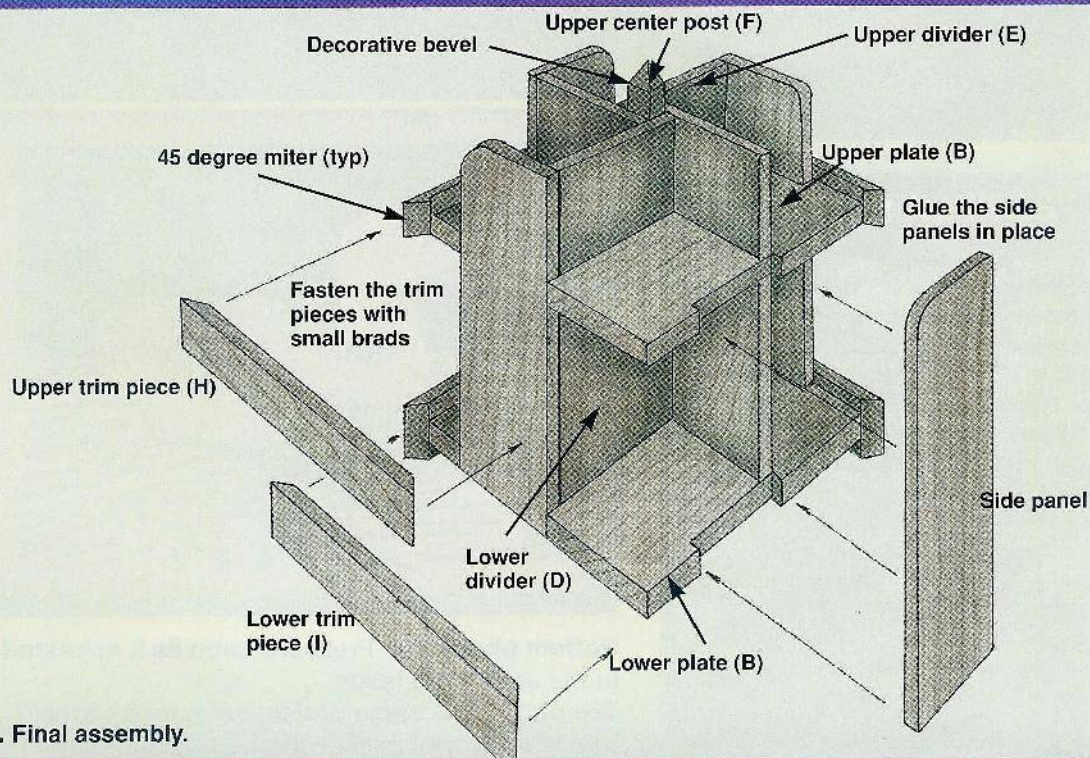


Fig. 3. Final assembly.

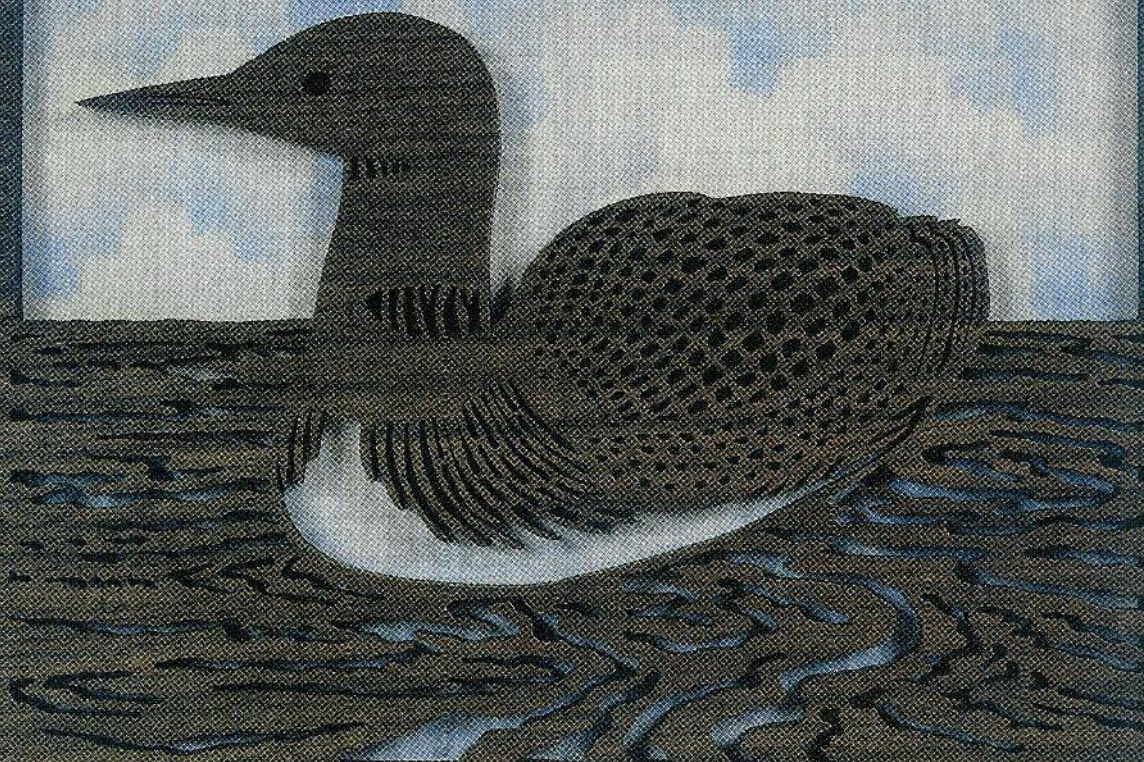
# Fretwork Loon

by Wildwood Designs

sawn by Wes Demarest

background by the Wizard

Here's a project for the serious fretworker which was first featured in our June 1994 issue.



## SUPPLIES

Wood: *walnut*—1/4" x 10" x 13" (for the silhouette); *Baltic birch plywood*—1/8" x 10" x 13" (for the backer board)

Tools: scroll saw with No. 5 reverse tooth blades; drill with bits

Temporary-bond spray adhesive

Sandpaper, assorted grits

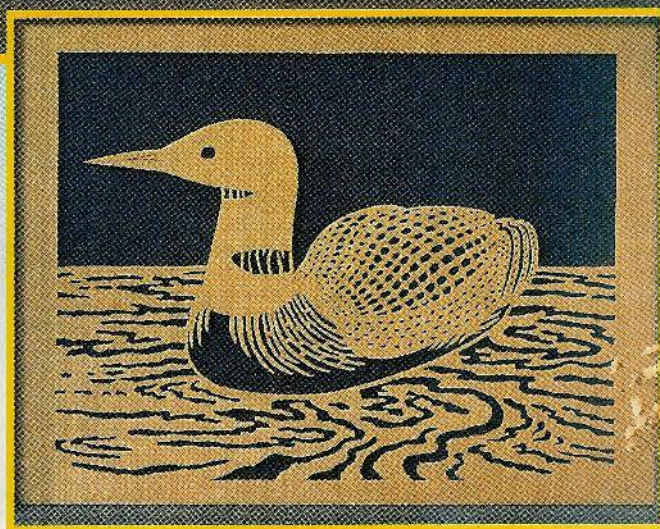
Testors Visions AirPainter and paints: Baby Blue; White

Wizard Designer Clouds Template\*

Sawtooth hanger

Finish of choice

\*Available from Alpine Imports, 7106 N. Alpine Road, Rockford, IL 61111, (800) 654-6114 ext. 321.



Bottom photo: The Fretwork Loon as it appeared in the June 1994 issue.

Top photo: The same project enhanced by the use of a colorful background.

## INSTRUCTIONS


### Transfer pattern and cut wood

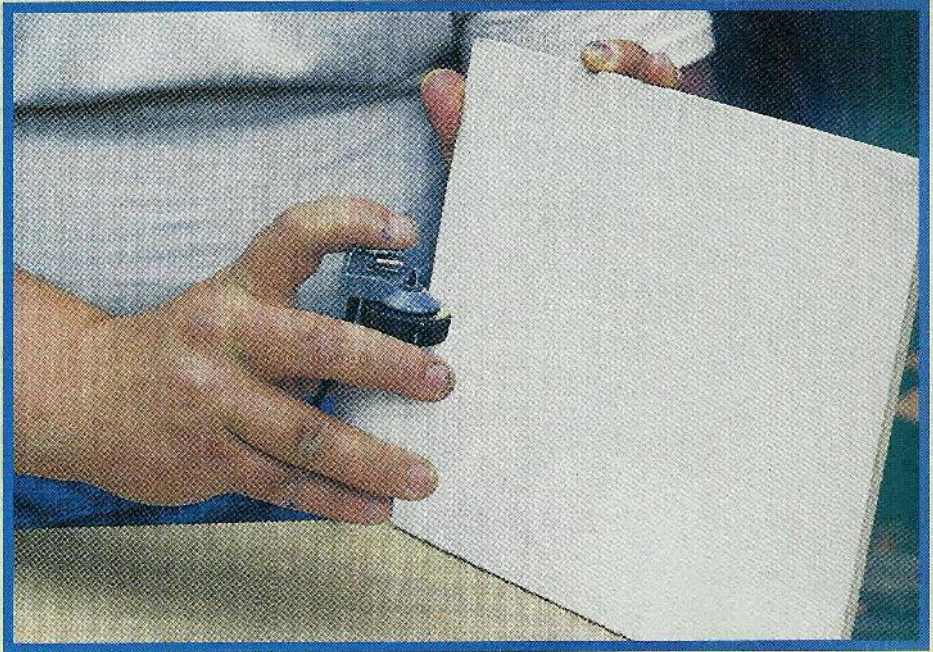
Adhere the silhouette pattern, found in Full Size Pattern Section No. 1, to the wood. Drill holes for the interior cuts, then saw out the pattern, beginning with the interior cuts and finishing with the exterior cuts. Remove the pattern from the wood and sand as needed.

Apply finish of choice to the silhouette and let dry.

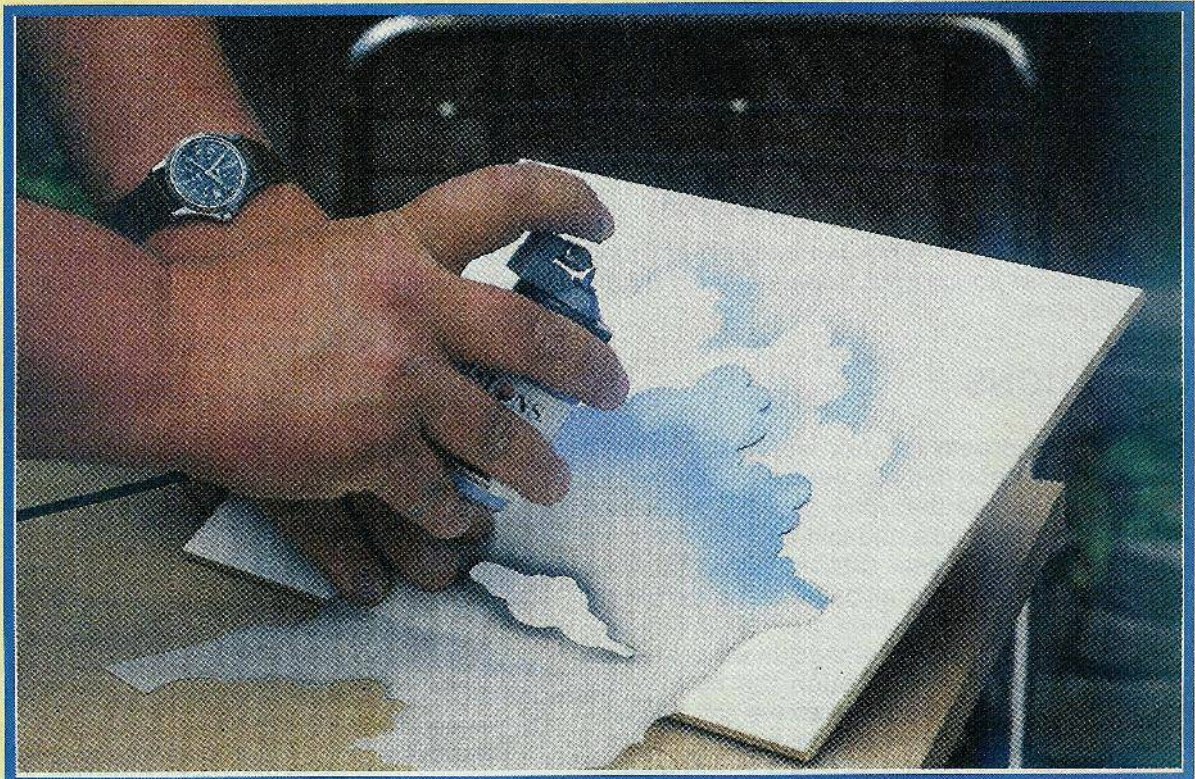
### Background Wizardry

Use the new Wizard Designer Templates to make the dramatic cloud background. Start by basecoating the backer board with White (see Fig. 1). Using a loose masking technique, hold the template against the prepared surface. Spray Baby

Blue along the edge of the template (see Fig. 2) allowing the paint to create an outline of the clouds. Move the template and repeat. Tip: holding the template away from the backer will produce a softer edge, holding it close will make a hard edge. When you are satisfied with the look of the backer, allow to dry and affix it to the back of the cut piece. 



**Fig. 1.** Use the Visions AirPainter to basecoat the backer board with White. It may take several coats to achieve the desired degree of coverage.



**Fig. 2.** The Wizard Designer Templates make painting the clouds easy. Spray Baby Blue around the edge of the template, being careful not to spray too much paint.

# THUNDERBIRD DREAM CATCHER

by Dirk Boelman



By combining two Native American symbols of "good luck," Dirk Boelman created this popular project for the August 1995 issue.

## INSTRUCTIONS

### Sleep tight

This magnificent dream catcher was inspired by a Native American legend that has been passed down for generations. It is said that long ago, Spiderwoman appeared before the people and told them how to have only good dreams—a dream catcher should be hung near where you sleep. Thus, all bad dreams are caught in the spider-like web where they are held until morning, at which time the first rays of the sun will burn them away. Good dreams pass through the hole in the center of the web and then slide down the soft feathers, resulting in your having only desirable dreams.

We have combined our dream catcher with another Native American symbol, the thunderbird, sacred bearer of happiness. The union of these two powerful

## SUPPLIES

Wood: red oak—1/2" x 11" x 11" (for the dream catcher), and 3/4" x 7-1/2" x 8" (for the thunderbird)  
Tools: scroll saw with No. 7 blades; drill with bits  
Temporary-bond spray adhesive  
Sandpaper, assorted grits  
Craft knife  
3-1/2 yards of 1/8" leather lacing\*  
Assorted beads (approx. 55)\*  
Assorted feathers (approx. 30)\*  
Seven conchos\*  
Artificial sinew (approx. 3-1/2 yards)\*  
Sawtooth hanger  
Sandpaper, assorted grits  
Wood glue  
Red and Blue acrylic paints  
Paintbrushes

\*Leather lacing, beads, feathers, conchos, and artificial sinew are available as a kit from The Art Factory, 950 Hollman St., P.O. Box 701, Platteville, WI 53818, (800) 566-6394 [(608) 348-8332 outside of the US] for \$12.95 including S&H.

images produces a striking wall decoration that will be admired by family and friends for generations.

### Select the stock

While we used red oak for our dream catcher, many other species of hardwoods are also viable options. The thunderbird was designed to be cut from 3/4" stock. However, hardwoods that are sold as 3/4" thick may actually vary from that dimension (usually under-size). Therefore, we suggest that you check the thickness of your 3/4" stock and adjust the pattern for the thunderbird's body accordingly—that is, trace around the thickness of the wood to make any necessary alterations to the notch at the top of the body, thus ensuring that the head will fit into it snugly.

### Cut, paint, and assemble

Attach the patterns, found in Full Size Pattern Section No. 3, to the wood with temporary-bond spray adhesive. Saw out the pattern, making sure to drill the holes in the dream catcher for attaching the web and leather lacing.

Once the parts have been cut, do not immediately remove the patterns from the wood, as they will be useful as painting templates. Use a craft knife to cut out the areas of the pattern that are to be painted. By doing this, the portions of the pattern that remain on the wood serve to mask off the areas that do not require painting.

Paint the dream catcher and thunderbird as shown on the pattern, and allow to dry. Next, lightly sand the painted areas to produce a "distressed" or weathered look.

Secure the thunderbird head to the body with glue

and let dry, then fasten a sawtooth hanger to the back side as shown in Fig. 1. Next, apply the desired finish to all surfaces and allow to dry.

### The tangled web we weave

Now it's time to weave the web in the center of the dream catcher (see Fig. 2). Starting at the "A" hole, tie the artificial sinew onto the wood using two overhand knots. Moving in a clockwise direction, thread the sinew into the back side of each hole and out through the front until you reach the "B" hole. After exiting at "B", continue to weave the web by catching the first loop with a half-hitch knot (as illustrated in Full Size Pattern Section No. 3). Continue moving clockwise, using half-hitch knots around the loops made previously, until you end up with about a 1/2" opening in the center. Tie off the web with two overhand knots. **Tip:** keep the artificial sinew taut and adjust the shape of the web as you work.

### Decorating the dream catcher

Cut the leather lacing into six 11" pieces, one 24" piece, and one 36" piece. Trim the ends of all the lace sections at a sharp angle to facilitate threading them through the holes in the wood.

The 24"-long section of lace will serve to hang the dream catcher from the thunderbird's beak. Place one end of this piece of lace through one of the appropriate holes (see pattern) and then tie an overhand knot to prevent that end from pulling out of the hole. Next, string the hanger lace with the beads of your choice and thread the free end through the other hole, securing it with another overhand knot. **Note:** before tying the second overhand knot in the hanger lace, first adjust the length of the lace so that the dream catcher hangs just below the thunderbird's tail feathers.

The six 11"-long pieces of lace are threaded through the holes in the bottom half of the dream catcher where indicated on the pattern. Tie an overhand knot near one end of each piece. Referring to the color photo, thread three beads against each of the knots just tied. Next, thread the other end of the lace through both slots in the concho as shown in Full Size Pattern Section No. 3 and into the front of a hole in the dream catcher. Bring the end back down through both concho slots to hold everything in place. Add feathers by inserting the ends into the beads until snug.

The 36"-long piece of lace is decorated in a manner similar to the 11" pieces. Tie an overhand knot at one end and string a combination of five beads. Referring to the photo and working from the bottom upward, string two more combinations of beads (three beads, then five), each held in place by a knot. Next, thread the other end through both slots in the concho, up through the web, and back down through the concho. Finally, add two more bead combinations (each with a knot) and then push in some feathers as was done previously.

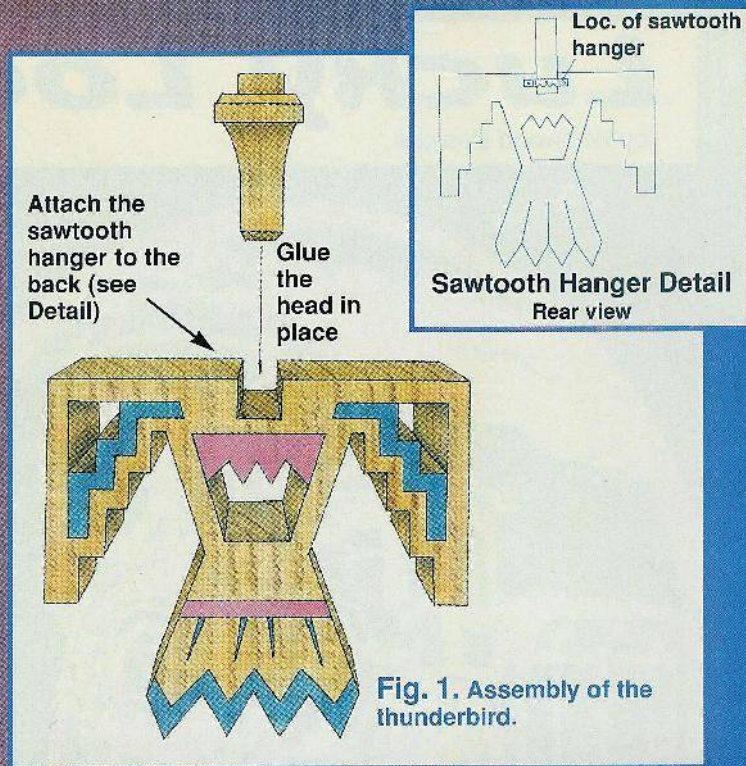


Fig. 1. Assembly of the thunderbird.

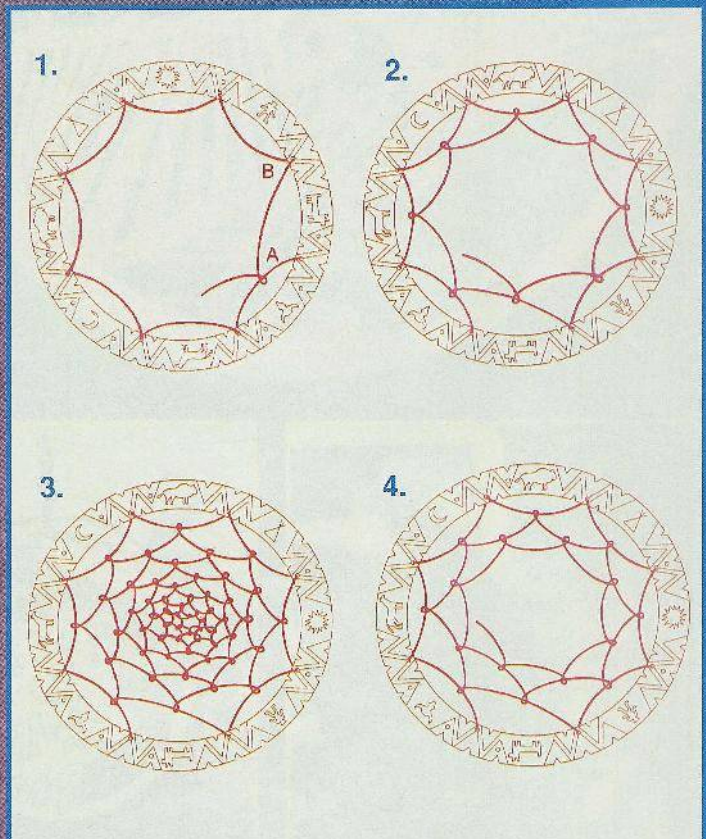


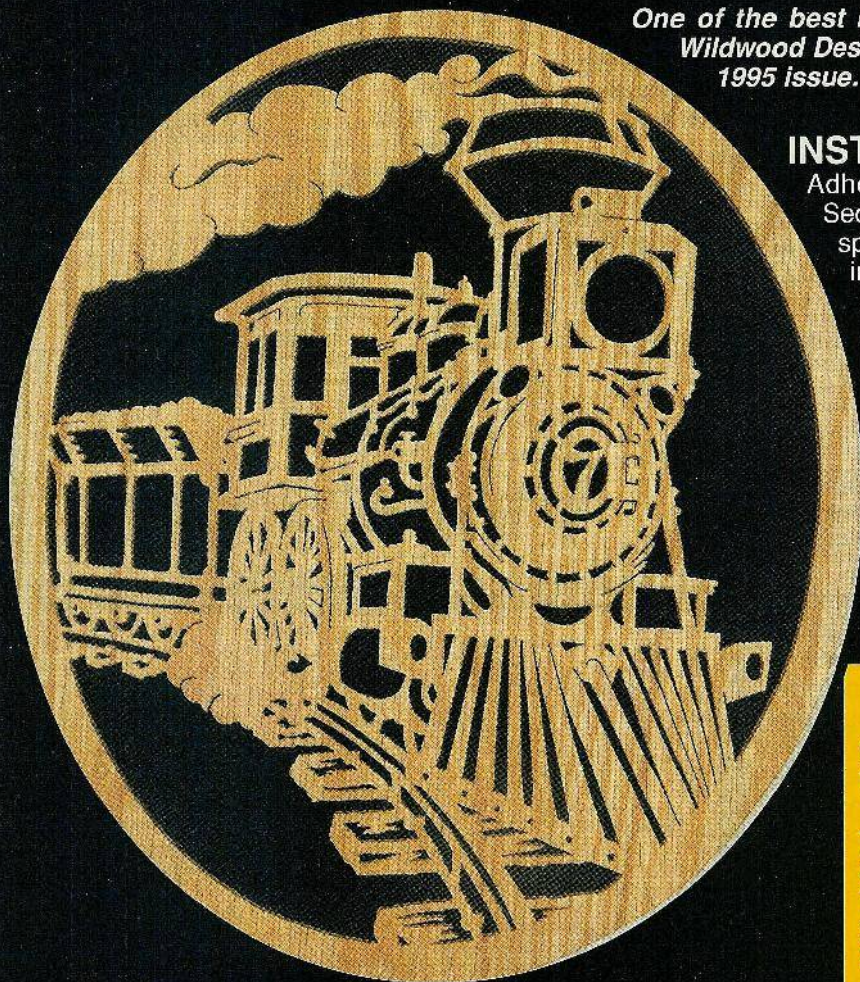
Fig. 2. Secure the artificial sinew to Hole "A" and work in a clockwise direction as shown above. Continue weaving the web as shown until an opening approx. 1/2"-Dia. remains at the center.

# Lucky Locomotive

by Wildwood Designs

sawn by Wes Demarest

One of the best known silhouette patterns to come from Wildwood Designs, this train was featured in our August 1995 issue.



## INSTRUCTIONS

Adhere the pattern, found in Full Size Pattern Section No. 2, to the wood with temporary-bond spray adhesive. Drill blade entry holes for the interior cuts and saw out the pattern, beginning with the interior cuts and working your way out to the exterior. Remove the pattern from the wood and sand as needed. Apply finish of choice to the silhouette and let dry.

Cut a piece of velvet board (see Fig. 1) slightly larger than the pattern piece. Using tacky glue, adhere the board to the back of the pattern piece, clamping it firmly in place (see Fig. 2). With a No. 0 blade installed in your scroll saw, saw around the perimeter of the pattern to cut off the excess velvet board (see Fig. 3).

## SUPPLIES

Wood: oak—1/4" x 12" x 12"  
Tools: scroll saw with No. 5 and No. 0 blades; drill with bits  
Temporary-bond spray adhesive  
Sandpaper, assorted grits  
Tacky glue  
Bainbridge velvet board  
Finish of choice

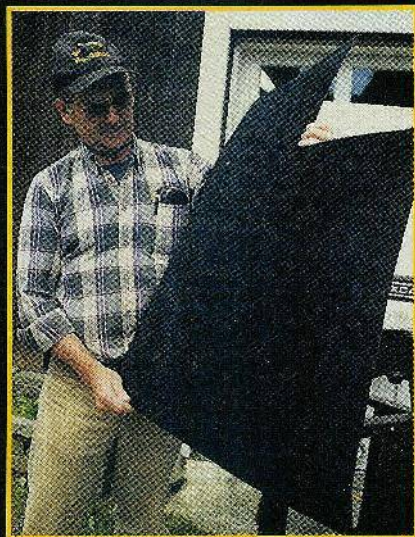


Fig. 1. Bainbridge velvet board was used as a backer for the Lucky Locomotive.

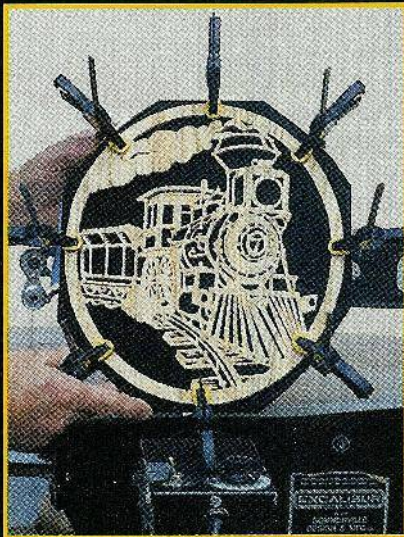


Fig. 2. Affix the velvet board to the back of the pattern piece and clamp it in place.



Fig. 3. Use a scroll saw to remove the excess backer—a No. 0 blade is recommended.



# Gentleman's Tie Rack

by Dirk Boelman

sawn by James Boelman



*In memory of James Boelman, sawyer of the original tie rack in 1995.*

## INSTRUCTIONS

### A dog named Windsor

Here's a super gift for any necktie-wearing gentleman. Humorous yet practical, it pays special tribute to man's best friend. The rack can easily accommodate up to fifteen neckties.

We made our tie rack from 3/4" walnut and 1/4"-Dia. matching dowels, but any other hardwood would work equally well. Before deciding what stock you are going to use for the backer, try to locate matching dowels or tie pegs. If these are not available, you may at least be able to stain dowels of a different species to match the desired stock.

### Cut the wood

Adhere the pattern, found in Full Size Pattern Section No. 2, to the wood with temporary-bond spray adhesive. Next, drill holes in the waste areas of the pattern, then bore the 15 holes that will accommodate the dowels or tie pegs. **Note:** the pattern shows drill-center locations, but does not specify hole diameters; this is because you should drill the holes to conform to the dowels or pegs you are using.

Saw out the backer, then remove the pat-

## SUPPLIES

Wood: *walnut*—one piece 1/2" or 3/4" x 7-1/4" x 11-1/2" (for the backer)

Tools: scroll saw with No. 5 blades; drill with bits; needle files or KD-1 Electrofile\*  
Temporary-bond spray adhesive  
Sandpaper, assorted grits  
Fifteen 1/4"-Dia. x 3"-long dowels or tie pegs  
Wood glue  
Oil finish of choice

\*Available from KD Engineering, Inc., P.O. Box 195, Hubertus, WI 53033-9799, (414) 628-9666.

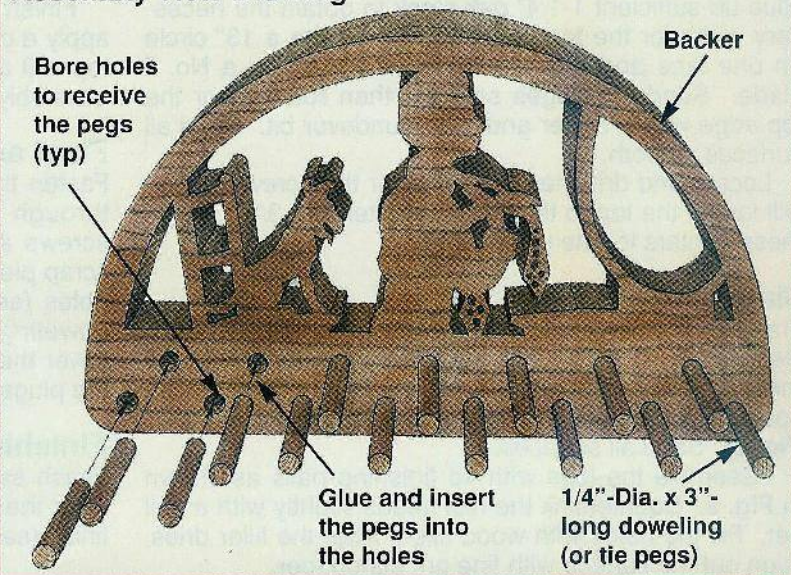
tern from the wood. Using a knife, needle files, and fine sandpaper, touch up the cutouts and remove any "feathered" edges from the back side. If desired, round over the edges of the piece.

### Assemble and finish

Cut the 1/4" doweling into 15 pieces, each 3"-long. Apply a small amount of glue to one end of each dowel and insert the dowels into the holes (see the Assembly View Drawing). The dowels should be positioned so that their rear surface is flush with the rear surface of the pattern piece. Let dry.

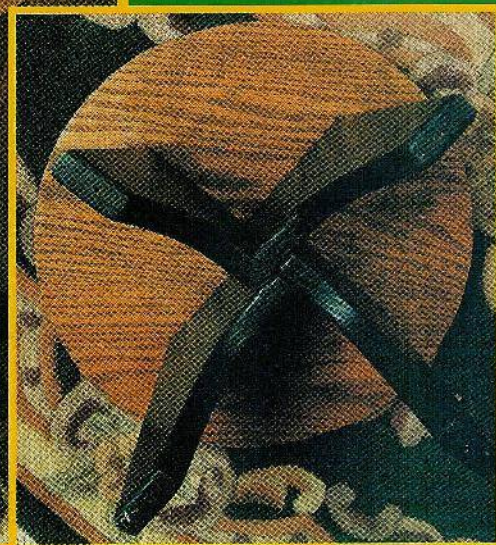
Apply finish of choice to the assembly and allow to dry thoroughly.

### Assembly View Drawing



# Decorative Stool

by Lavon B. Smith



*Here's a fun, practical, and easy to make stool from our April 1996 issue.*

## INSTRUCTIONS

### Make the top

Glue up sufficient 1-1/4" oak stock to obtain the necessary width for the top (see Fig. 1). Scribe a 13" circle on one face and saw the top to shape using a No. 7 blade. Sand the edges smooth, then round over the top edge with a router and 1/2" roundover bit. Sand all surfaces smooth.

Locate and drill the pilot holes for the screws, which will fasten the top to the legs. Counterbore 3/8" Dia. on these centers for the wood plugs.

### Make the legs

Transfer the leg pattern, found in Full Size Pattern Section No. 2, to the four pieces of white pine and cut them to shape with a No. 5 blade. Rout the edges as specified in the pattern with a 1/4" roundover bit (see Fig. 2). Sand all surfaces.

Assemble the legs with 4d finishing nails as shown in Fig. 3. Countersink the nail heads slightly with a nail set. Fill the holes with wood filler. After the filler dries, even out the surface with fine grit sandpaper.

### Apply the paint and stain

Apply a coat of dark green latex paint to the leg assembly. Allow to thoroughly dry, then sand lightly with 180 grit sandpaper. Remove all dust and apply a second coat of paint.

Finish sand the underside and edges of the top, then apply a coat of stain to these. The upper surface of the top will be stained after it has been joined to the leg assembly.

### Final assembly

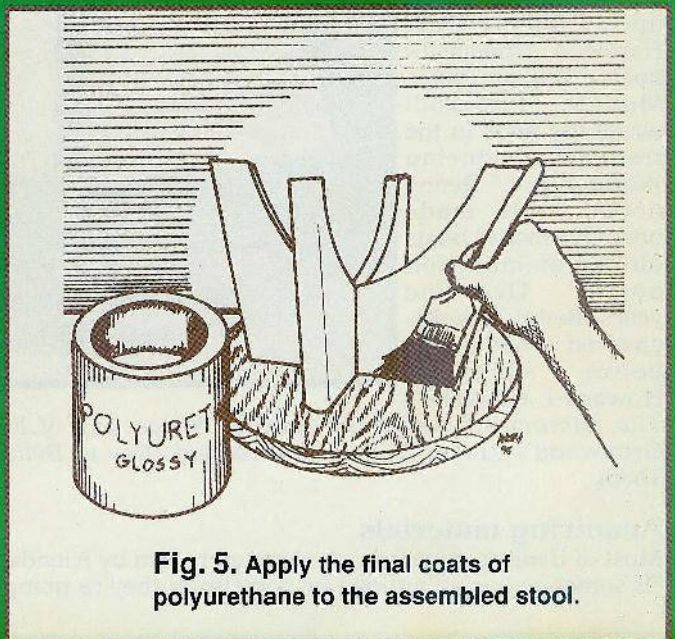
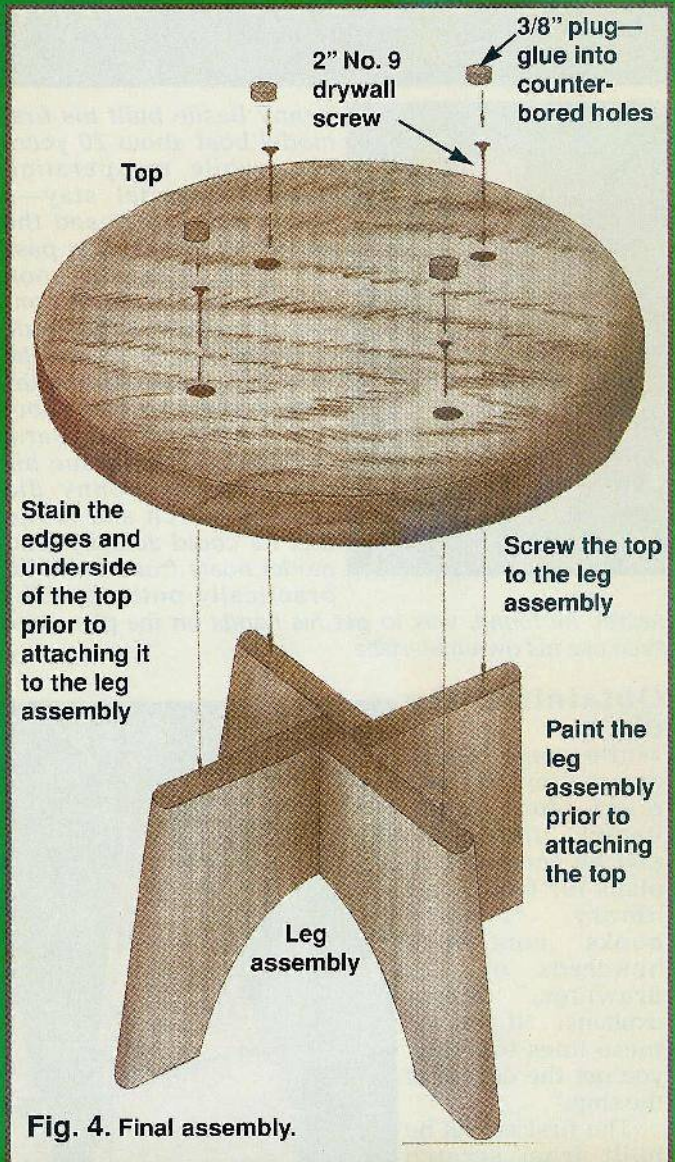
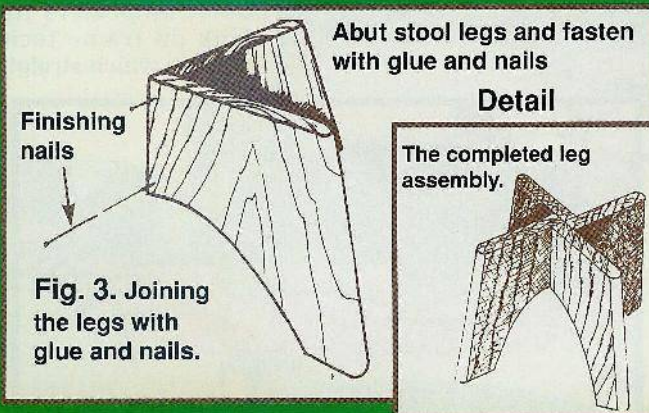
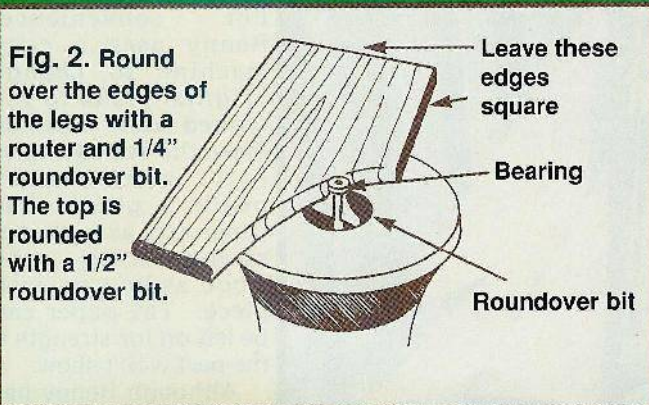
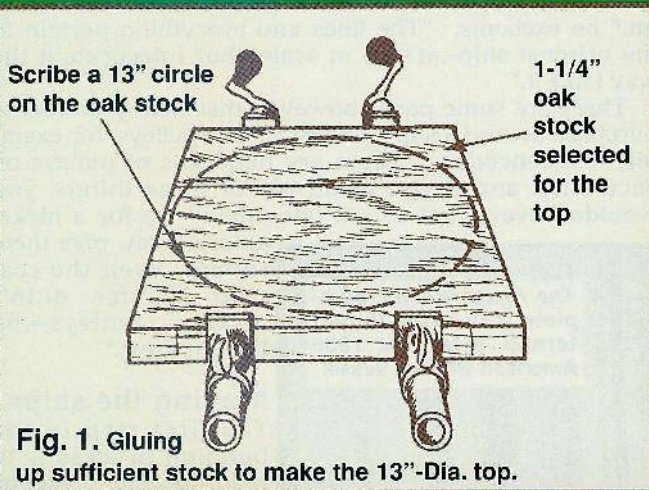
Fasten the top to the leg assembly with screws driven through the previously drilled pilot holes. After the screws are secured, cut four 3/8"-Dia. plugs out of a scrap piece of oak and glue them into the counterbored holes (see Fig. 4). If you do not have a plug cutter, doweling of sufficient diameter can also be used to cover the screw heads. Once the glue has dried, sand the plugs flush.

### Finishing

Finish sand the entire upper surface and apply stain. After the stain dries, apply three coats of polyurethane finish (see Fig. 5).

## SUPPLIES

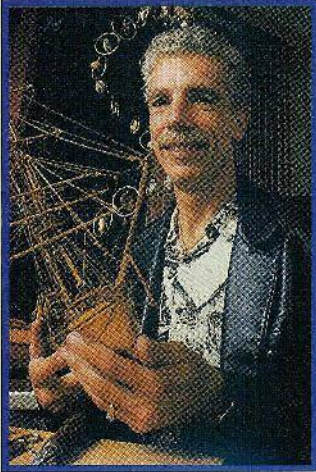
Wood: *oak*—1-1/4" x 13-1/2" x 13-1/2" (for the top); *white pine*—four pieces, 3/4" x 6-1/2" x 8-1/2" (for the legs)  
 Tools: scroll saw with No. 7 PGT and No. 5 reverse tooth blades; router with 1/4" and 1/2" roundover bits; drill with assorted bits and 3/8" plug cutter; nail set  
 Wood glue  
 Sandpaper, assorted grits  
 Stain of choice  
 Polyurethane, glossy  
 Latex paint, dark green glossy  
 Four 2" No. 9 drywall screws  
 4d finishing nails



# The Wooden Ships of Benny Basile

by Lawrice Brazel

Photos by Andy Chen



Benny Basile built his first model boat about 20 years ago, while recuperating from a hospital stay—a friend had purchased the plastic kit to help him pass the time. Benny soon became interested in constructing model boats made of wood, but he found the costs to be prohibitive; at the time, a basic kit cost about one hundred dollars. Determined to pursue his new passion, Benny did some research and found that he could actually craft model boats from wood for practically nothing. The

secret, he found, was to get his hands on the plans and then use his own materials.

## Obtaining the plans

While some model companies do sell plans for boats, Benny discovered that he could obtain plans for free at the library. “I found books containing hundreds of line drawings,” Benny explains. “If you put these lines together, you get the outline of the ship.”

The first model he built from scratch was the *Leon*, based upon plans from Harold A. Underhill’s book, *Plank on Frame Models*. “Underhill wrote the book in the trenches during World War I,” Benny notes. “He made beautiful model boats out of ammunition boxes.” Over the years, Benny has discovered other useful books, such as Howard I. Chapelle’s *The History of American Sailing Ships* and V.R. Grimwood’s *American Ship Models and How to Build Them*.

## Acquiring materials

Most of Benny’s materials are donated to him by friends. “If someone has an antique or something they’re going

to throw out, they give it to me—everything from old desk drawers to rulers,” he explains. For fasteners, Benny uses small bamboo splinters cut from chopsticks.

While many of the original ships had painted-copper bottoms, Benny prefers to leave out this feature in order to show off the colors of the contrasting woods. One of his favorite models is the *Elsie*, a boat made from some butternut stock that a neighbor had stored away in his basement for 30 years. Currently, Benny is working on a Chinese Junk boat made from an exotic wood called Purple Heart.

For the rigging, Benny uses heavy-duty upholstery thread, while mooring chains are fashioned from knotted gold jewelry chains. “If it looks good and I like it, it goes on,” he exclaims. “The lines and everything pertain to the original ship—it’s all in scale—but I decorate it the way I like it.”

There are some parts, however, that Benny prefers to purchase at model supply stores. “The pulleys, for example,” he concedes. “There are hundreds of pulleys on each ship, and if you made 100 of these things, you wouldn’t ever want to see one again. So for a nickel apiece, I say, give them to me. Even the real ship builder didn’t make pulleys—he bought them.”

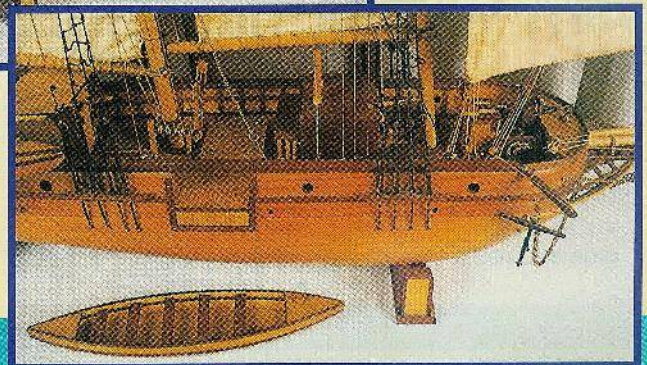


The *Agate Whaler*, complete with sails, is patterned after an 1836 American whaling vessel

## Making the ships

The first step in the building process is to read the line drawings and create the plans. For convenience, Benny uses a copy machine to change original plans to the desired scale. Next, he glues the scaled copies to the wood with carpenter’s glue. The paper acts as a veneer, strengthening the wood as he cuts each piece. The paper can be left on for strength if the part won’t show.

Although Benny has carved some model boats, he prefers the plank on frame technique, in which straight



pieces of wood are doweled together. "Carved models are beautiful, but if you make a mistake you can't hide it—there it is, even if you've already spent hours on it," Benny explains. "With a plank on frame model, you're doing a section at a time. If you break a section of the wood you can throw it away."

Benny does not display his ships in glass cases because he likes to let friends pick them up and look at them. "These models are structured just like the real boats, and people are surprised at how strong they are," notes Benny. "All the parts work, and the plank on frame models float."

Since Benny allows his boats to be handled, most of them have fallen to the floor at one time or another. "It has to have give in it," he stresses, "so I never glue the rigging. If it's not glued, the rigging will bend and can be put back in place. If a string breaks, it can be replaced."

All boats have to be waterproofed because Benny cleans them about once a year by putting them under the shower. Wood has to be polyurethaned or varnished inside and out, and the thread has to be coated in beeswax. "I have to think about all this as I put it together," Benny explains. "Glue doesn't work well on a varnished piece, so I have to decide when to varnish each individual part."

### A satisfying hobby

Building models from scratch requires a minimal amount of materials, tools, and workspace. As most of the components are quite small, Benny performs the bulk of his work on a snack tray. His tools consist of X-acto blades, a small knife, tweezers, a backsaw, and a tiny mallet. In fact, everything Benny needs fits into his briefcase, which has allowed him to bring his hobby along on business trips. "Sometimes in a hobby, if you have to take all of your stuff out in order to do your work, by the time you get it out you're not interested anymore," he contends. "If I have a few minutes, I can sit right down and do it. If I'm waiting for my wife to dress, I can do just 20 minutes of work and put it aside. Plus I get to see my wife! If I was doing my hobby in the basement, and she was upstairs reading, we'd never see each other, because once I start playing with my boats, I lose sense of time. I'll start working on it at 7 p.m. and I look up and it's 2 a.m.—that's how you know you have a hobby you really like!"

Although Benny is occasionally commissioned to make or restore models for others, model building remains a hobby rather than a business. Each boat takes a minimum of 40 to a maximum of 1,500 hours to complete. "After I spend so much time on these boats, I find it very difficult to sell them. I can't really sell them to friends—I can't work for a dollar an hour, so I give them away as gifts."

"I'm still astounded every time I finish a boat,"


Benny continues, "but if I got too blasé about it, I wouldn't do it anymore."

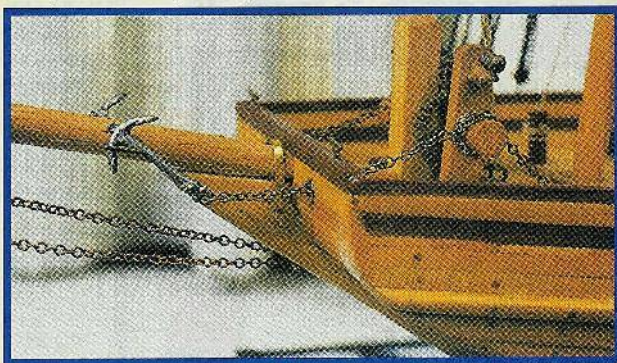
### Some notes on Benny's favorite ships

Most of Benny's models are nineteenth-century wooden sailing ships. Some of his favorites include:

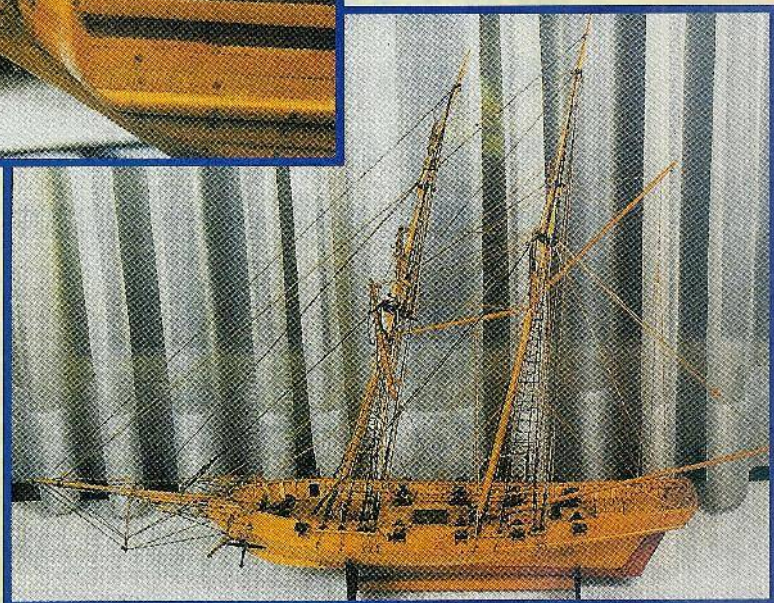
*Agate Whaler*—"This 1836 American three-boat whaler is one of the few models I've made with a sail," Benny notes. "Sails are difficult to get in scale and difficult to clean. I sewed this sail myself out of a shirt dipped in coffee. The boat itself is made from maple blocks, and the smaller boats on it are made from tomato stakes."

*Regina S.*—"This is an 1895 American scow schooner," says Benny. "It's made of walnut, and boxwood I cut from rulers. The deckhatches are made of mahogany and it's doweled with bamboo. This type of boat was not made for the ocean—they were used originally in canals to move large, heavy items. If you take the mast off, it's a barge. A lot of these were eventually used as barges."

*Dapper Tom*—"One of my few carved models, this is an 1812 American cigarette boat called a Baltimore Clipper. They still make them today for tours. Since these boats were used as pirate ships, they were built strictly for speed. They could usually outrun the warships of the time. The Dapper Tom originally had ten cannons on board, and they were in the process of throwing them overboard when they were captured by the British. The crew was probably hung, and the British took the boat as booty. That's why I have the plans to the boat. At the time, the Americans didn't write down plans but the British did." And it's thanks to recordkeeping such as this that we have craftsman such as Benny Basile among us today. 



This close-up of the bow of the *Regina S.* shows the tiny bamboo "dowels" (cut from chopsticks) used to fasten plank on frame components. Anchor chains are typically made from knotted jewelry chains.



Shown here is *Dapper Tom*, one of Benny's few carved models.

# ATTENTION CANADIANS:

**SUBSCRIBE TO CREATIVE WOODWORKS & CRAFTS USING CANADIAN CURRENCY!**

**NO BANKS! NO HASSLES! NO HIDDEN FEES!**

**SUBSCRIBE TOLL FREE 1-800-585-5965**

## ATTENTION LEFT-HANDERS!

You'll love our wide range of left-handed products, including the famous Southpaw tape measure!

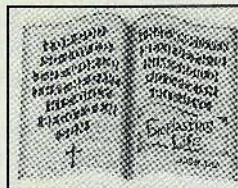


Southpaw Enterprises,  
BOX 835, Nelson, BC  
V1L 5S9, Canada

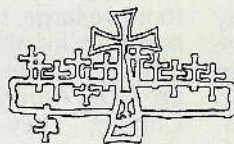
Call Toll Free 1-800-818-9616

## BIBLE PLAQUE DESIGN

SCROLL SAW JOHN 3:16 INTO A WOODEN BIBLE PLAQUE.



PATTERN PLUS INSTRUCTIONS \$5.00.  
SEND CHECK OR MONEY ORDER (AND MAKE PAYABLE) TO: PAUL BOER, 16665 THORNTON AVE, SOUTH HOLLAND, IL 60473



### The Last Supper

Unique new scroll saw pattern with interpretation.

Pattern: \$4.50 (Nebraska residents add 6 1/2% sales tax)  
Shipping: \$1.50 (within continental US)

Send check or money order with name and address to:

Tom Zieg  
P.O. Box 6276  
Lincoln, NE 68506-0276

# WOOD

**400,000RPM Air/CO2 Hand Inlay, Engraving & Fine-Relief Carving.**

With our stencil systems or video, anyone able to trace lines can do all this in just about any material within their first day, guaranteed.

ULTRA SPEED PRODUCTS, INC.  
18500 E. ASCHOFF, ZIGZAG OR 97049  
503-622-1387 FAX 503-622-3252  
www.morner.com/ultraspeed  
\$170 for handpiece, foot control, air filter, video, 2 burs, lubrication, stencil sample and bur catalog.  
Or send refundable \$14 + \$3 shipping for video

## ATTENTION WOODCRAFTERS!

Create fantastic items-in-wood using reliable

### SWISS MUSIC MECHANISMS!

Over 500 tunes to choose from! BEAUTIFUL SOUND!

Make a hit with family and friends!

PATTERN PACKETS AVAILABLE!

Reasonably priced!  
Call or write to

SWISS MUSIC BOX, Ltd.,

P.O. Box 26063, Shawnee  
Mission, KS 66225-6063

1-800-255-0676 Fax 913-663-1158

## QUALITY CRAFT SUPPLIES & MORE

Your ONE STOP Woodworking Source  
All We Sell is Woodworking Supplies

BAND & SCROLL SAW BLADES  
WHEELS-SPINDLES-BOOKS-BEADS  
DELTA PAINTS-CUTOUTS-EGGS-BALLS  
AND MUCH MORE

FOR CATALOG SEND \$3.00 (REFUNDABLE)

CREATIVE WOOD WORKS  
c/o CATALOG DEPT. CWWC  
PO BOX 4897 - MODESTO CA 95352

Visit Our Store: 1124 Kansas Ave.  
www.creativewoodworks.com

## THE WOOD SHED

DIABETICS WITH MEDICARE OR INSURANCE, GET YOUR DIABETIC SUPPLIES AT NO COST (INSULIN DEPENDENT ONLY). CALL 1-800-723-2882. 558-7-9-10

EASY WORK! EXCELLENT PAY! Assemble products at home. Call toll free 1-800-467-5566 Ext. 10939. 599-10-11

HOME TYPISTS, PC users needed. \$45,000 income potential. Call 1-800-513-4343 Ext. B-10154. 600-10

\$100.00 DAILY WATCHING TV. 412 Payne St., Natchitoches, LA 71457.

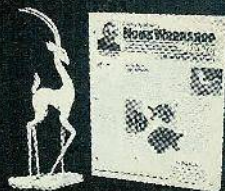
COMPUTER USERS NEEDED. Typing & word processing from home. \$45,000/yr. income potential. Call 1-800-513-4343 Ext. B-2035. 607-10

**Earn Extra Income**  
**We pay cash for**  
**original clock**  
**plans and designs**

**Steebar Corp.**  
**973-383-1026**

# MARKET

## Scroll Saw Projects!



Great New Patterns, Techniques, Tips and Ideas!

Patrick Spielman's full-color, scroll saw magazine. Order your 1 year subscription to "Home Workshop News" for \$19.95.

Send Name & Address for a **FREE** copy of Patrick Spielman's Scroll Saw Pattern Catalog

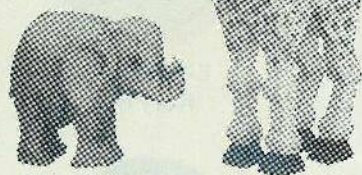
Patrick Spielman's Newest Pattern Book is now available! *Artistic Scroll Saw Patterns and Projects* is 160 pages of artistic & unusual designs. Send \$14.95 + \$3.50 for S & H to:

Spielman Publishing Company  
P.O. Box 867-CW, Fish Creek, WI 54212  
Phone: (920) 868-1639  
Fax: (920) 868-3292  
<http://www.spielmanpatrick.com>

## GREAT NEW BOOK!

### Scroll Saw 3-D Animal Patterns!

These unique 3-D animals will look like you carved them!



- 20 different animals to choose from (40 patterns - 2 patterns of each animal)
- Beginner to advanced projects
- These animals make fantastic GIFTS!
- Earn money selling them at craft shows!

The Book is \$14.95 plus \$2.50 S/H  
Send check or money order to:  
J. Erickson, 10700 Jersey Blvd., Suite #160,  
Rancho Cucamonga, CA 91730.

**PATTERN PACKETS** also available!  
Min. 12 patterns per pack; \$5.95 per pack.  
Pattern packet categories include: JUNGLE • FOREST • WATER • FARM • DOGS • CATS

## As seen in Creative Woodworks & Crafts... MAGNIFICENT 3-D MARQUETRY KITS!

- **Complete Kits** – each kit comes complete with all the woods needed to make the finished picture.
- **It's Easy** – just cut out the pieces with a scroll saw or a fret saw (shown below) and glue the pieces over the pattern on the base panel.
- **From Simple to Challenging** – kits are available in a wide array of difficulty levels. Whatever your skill level, you can find the right kit for you! Over 170 Kits to Choose From!
- **Picture Frames** are now available for the kits!

FOR MORE EXCITING MARQUETRY KIT PATTERNS SEE PAGE 37.



**THE PLOWMAN**  
(#766) 10½" x 16"  
Kit Price: \$30.25



**STAG**  
(#563) 11½" x 16"  
Kit Price: \$26.90



**WILD DUCK**  
(#724) 11" x 13"  
Kit Price: \$18.90

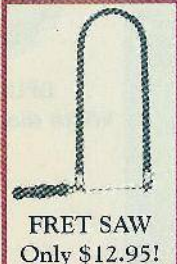
PRICES SHOWN ARE FOR COMPLETE KITS!



**WINTER SCENE**  
(#675) 10½" x 16"  
Kit Price: \$28.90



**THE OLD HOUSE**  
(#561) 12" x 20"  
Kit Price: \$35.75



**FRET SAW**  
Only \$12.95!

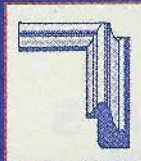
FREE SHIPPING OR A FREE FRET SAW WITH ANY ORDER OVER \$100!

### WE ALSO SELL FRAMES TO ENHANCE OUR MARQUETRY KITS!

Make your kit more attractive by adding one of our pre-assembled basswood frames. Choose from one of the six styles of frames shown below, which come in all the necessary dimensions to go with each of our kits. Please call for pricing for specific sizes and frame styles. **FRAMES CAN BE PAINTED, STAINED, OR FINISHED "NATURAL".**



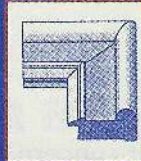
Style #F1  
¾" Basswood



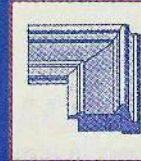
Style #F2  
1" Basswood



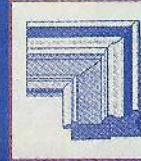
Style #F3  
2" Basswood  
with Walnut inlay



Style #F4  
3" Basswood



Style #F5  
3-1/2" Basswood



Style #F6  
4" Basswood  
with Walnut inlay

### ORDER TOLL FREE: 1-800-585-5965

or write to: Ford Enterprises, 4093 Meadowbrook Dr., Unit 105, London, ON N6L 1G1.

Fax: 519-652-5781

Mastercard & Visa accepted.

All prices shown are in U.S. funds.

Shipping charges – between \$7.00 and \$10.00, depending upon weight. Orders over \$100 SHIPPED FREE.

Web site – [www.woodcrafters.on.ca](http://www.woodcrafters.on.ca)

E-mail – [bford@woodcrafters.on.ca](mailto:bford@woodcrafters.on.ca)

### SCROLL SAW BLADES

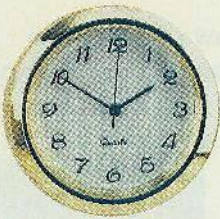
(We recommend these blade sizes for cutting our kits):

\* FR440 #2/0 Skip Tooth Blades \$3.75/Dozen

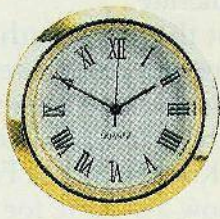
\* FR443 #2 Skip Tooth Blades \$3.75/Dozen

# Miniature 36 MM (1 7/16") Fit-ups...

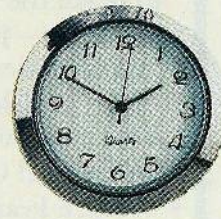
Silcon brand...the most trusted name in fit-ups!  
We also have matching 36 MM photo frames.



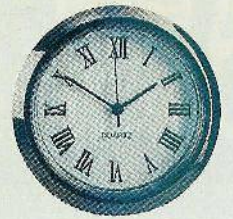
BFU-1716-WAS  
White dial, gold bezel



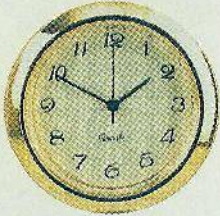
BFU-1716-WRS  
White dial, gold bezel



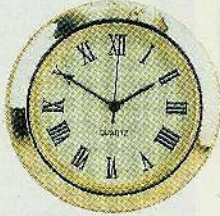
BFU-1716-AP  
White dial, pewter bezel



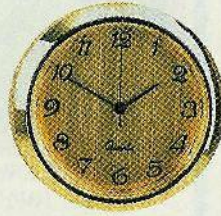
BFU-1716-RP  
White dial, pewter bezel



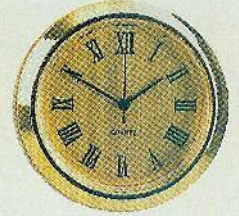
BFU-1716-IAS  
Ivory dial, gold bezel



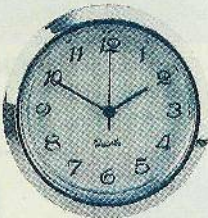
BFU-1716-IRS  
Ivory dial, gold bezel



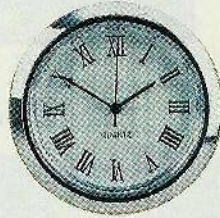
BFU-1716-GAS  
Gold dial, gold bezel



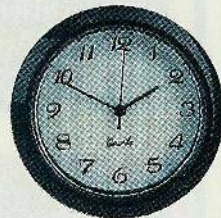
BFU-1716-GRS  
Gold dial, gold bezel



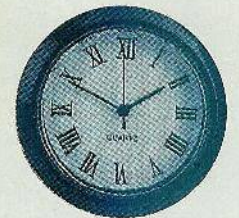
BFU-1716-CAS  
White dial, chrome bezel



BFU-1716-CRS  
White dial, chrome bezel



BFU-1716-BAS  
White dial, black bezel



BFU-1716-BRS  
White dial, black bezel

## PRICING FOR THE ABOVE 12 SILCON INSERTS

1+ 6.95

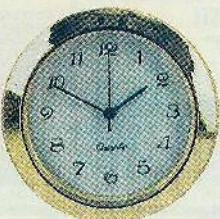
5+ 6.50

10+ 5.75

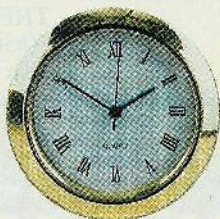
25+ 5.25

50+ 4.75

100+ 4.45



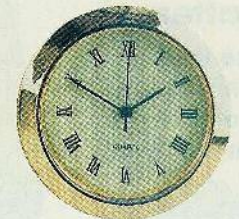
E-36 MM-AW  
White dial



E-36 MM-RW  
White dial



E-36 MM-AI  
Ivory dial



E-36 MM-RI  
Ivory dial

## ECONOMY 36 MM FIT-UPS

When cost is a major concern, these are the only inserts to consider. Same size requirements as our premium inserts above. Gold tone bezels. One year limited warranty. Includes an installed battery.

### PRICING FOR THE 6 ECONOMY INSERTS

1+ 6.20

5+ 5.75

10+ 5.00

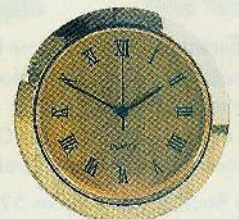
25+ 4.50

50+ 4.00

100+ 3.75



E-36 MM-AG  
Gold dial



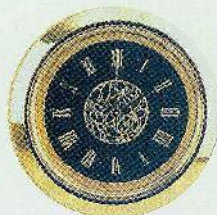
E-36 MM-RG  
Gold dial

# STEEBAR CORP.

ORDER TODAY by Fax (973) 383-8918 or Phone (973) 383-1026

# Miniature 36 MM (1 7/16") Fit-ups...

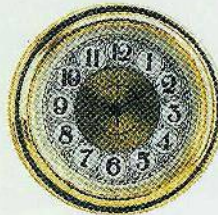
Silcon brand... the most trusted name in fit-ups! Now with a five year guarantee! Only 1 7/16" diameter by 3/8" thick! Installation is a snap...just bore a 1 3/8" hole (minimum 5/16" deep) and press in place...it's that easy. Includes an installed, easy to change battery. Silcon fit-ups have proven to be so trouble free that we are now guaranteeing them for five years. All the inserts below have gold tone bezels.



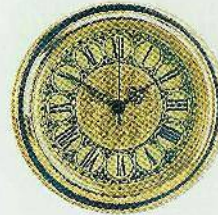
BFU-1716-BRG  
Black dial



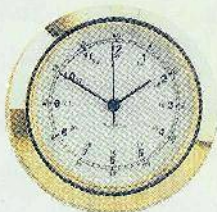
BFU-1716-OG  
Old German dial



BFU-1716-FA  
Fancy white dial, waterfall  
bezel



BFU-1716-FR  
Fancy ivory dial, waterfall  
bezel



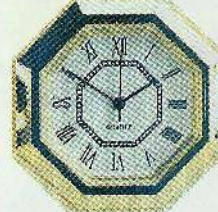
BFU-1716-24  
White, 24 hour dial



BFU-1716-ROSE  
white dial, pink roses



BFU-1716-BRI  
Black dial, raised gold  
hour markers



OCT-1716-RG  
White dial, octagon case

## PRICING FOR THE ABOVE 8 INSERTS

1+ 8.25

5+ 7.50

10+ 6.75

25+ 6.25

50+ 5.95

100+ 5.65



BFU-1716-MD

A miniature insert with date, moving Sun/Moon dial. Same measurements as above inserts.

1+ 14.95

5+ 13.95

10+ 13.40

25+ 12.50

**SEE OUR OTHER GREAT OFFERS ON PAGES 2 & 3**



Six easy to make miniature clocks designed especially for our 36 MM inserts. Another good way to use the scrap wood that accumulates around all work shops. Six full size plans, order #6-MINI, only...\$2.50.

SHIPPING CHARGES: add 10% shipping to the total, minimum \$5.00. Orders over \$200.00 shipped FREE!!! We accept Visa, Mastercard & Discover.

Send your name and address and telephone number to:

**STEEBAR CORP.** P.O. Box 980 -BC-1, Andover, NJ 07821-0980.

Fax (973) 383-8918 Phone (973) 383-1026

# PS WOOD MACHINES

Scroll Saws • Band Saw Blades • Intarsia & Scroll Saw Patterns •  
Woodworking Books & Other Great Woodworking Tools and Supplies

**CHECK OUT THESE FEATURES ON OUR SCROLL SAWS!**

Double-arm  
stanchion!

Quick &  
easy blade  
changes!

Powerful  
motor on  
all speeds!

Largest  
work  
surface!

Constant-  
tension  
parallel  
arms!

Saw table  
tilts in both  
directions!

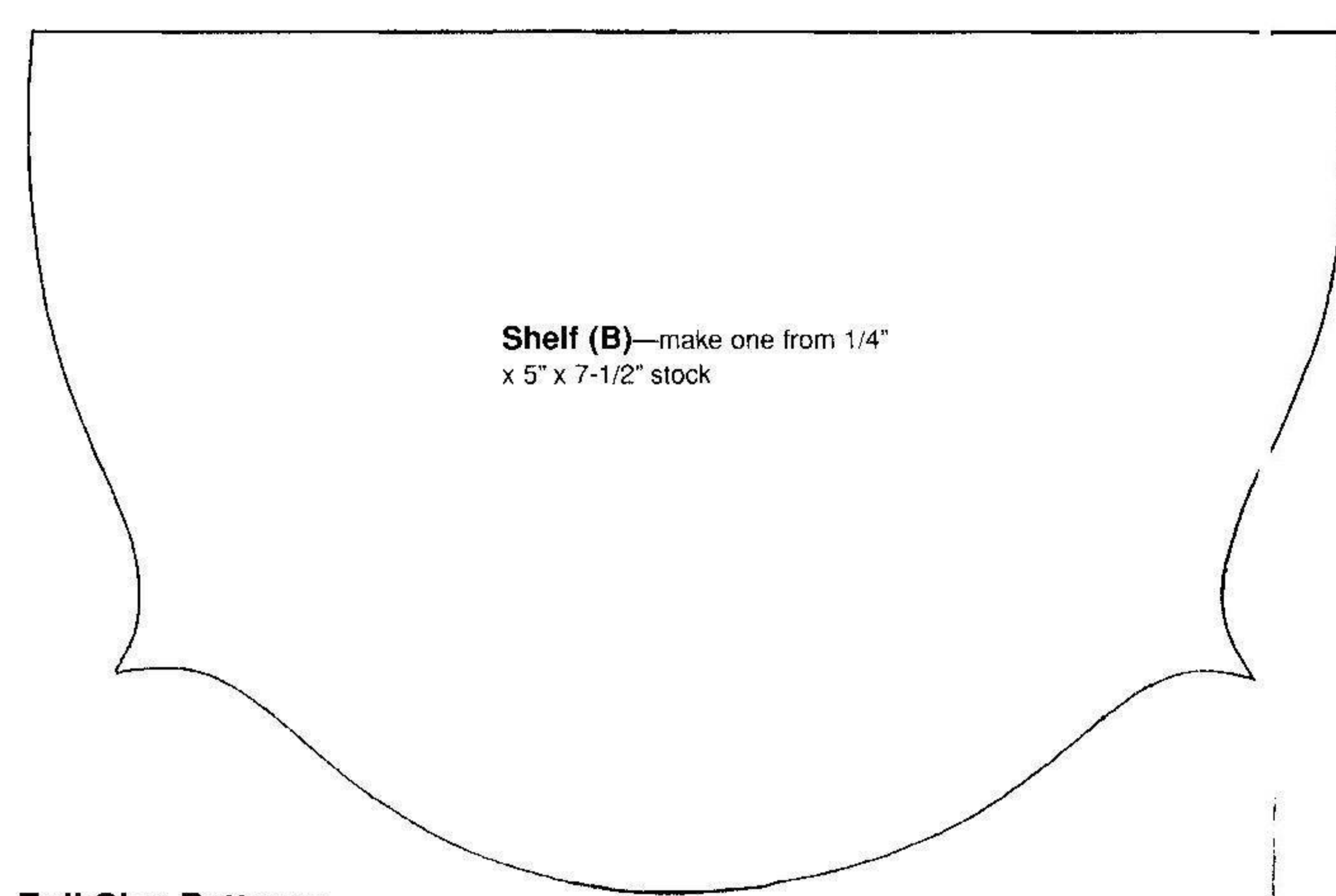
Four-legged  
stand for  
increased  
stability!

Call for more information at (412) 831-5402 or  
ORDER TOLL FREE: (800) 939-4414.

PS WOOD MACHINES, 10 Downing Street, Suite 3, Library, PA 15129.

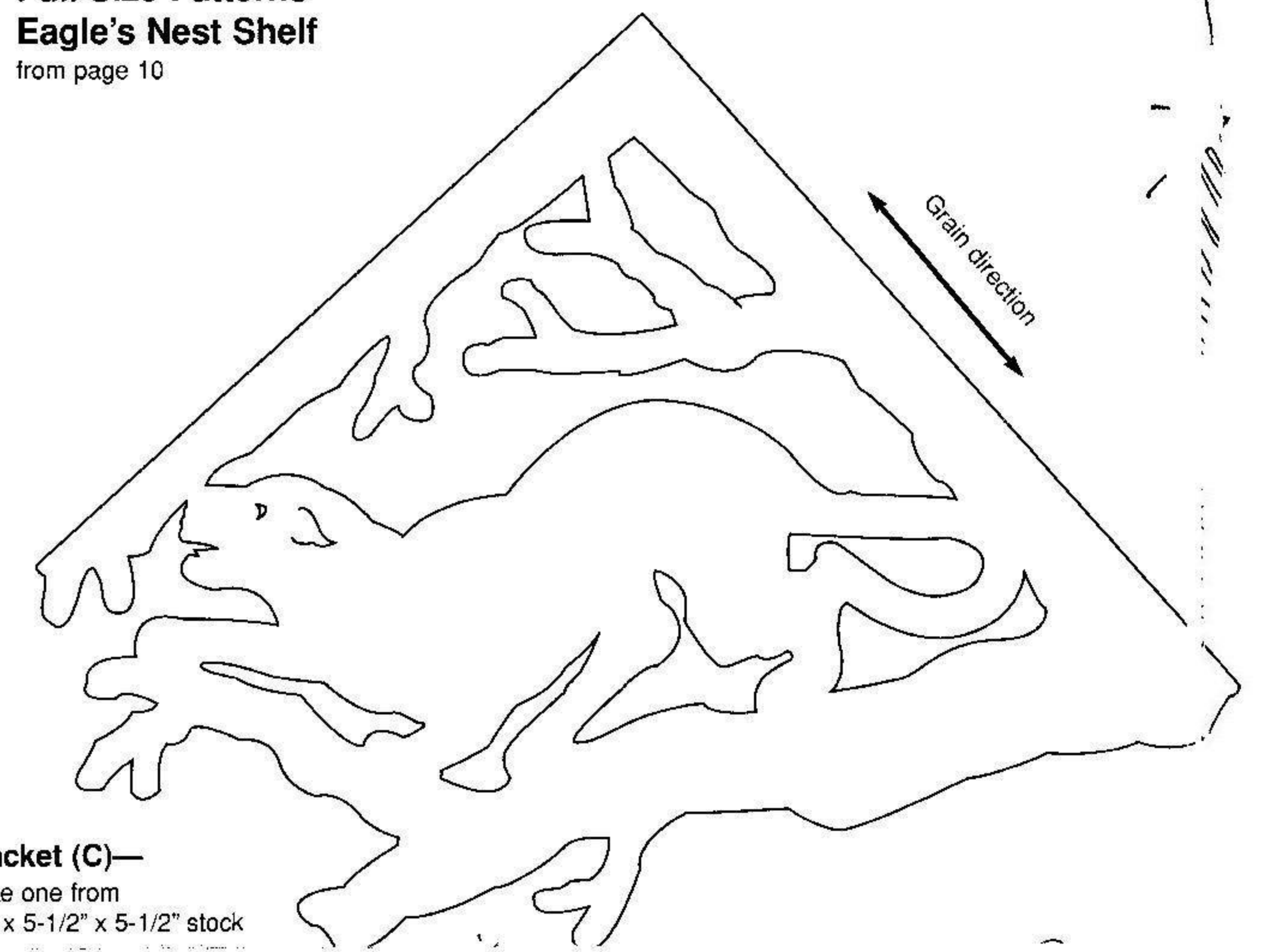
[www.pswood.com](http://www.pswood.com)

q1



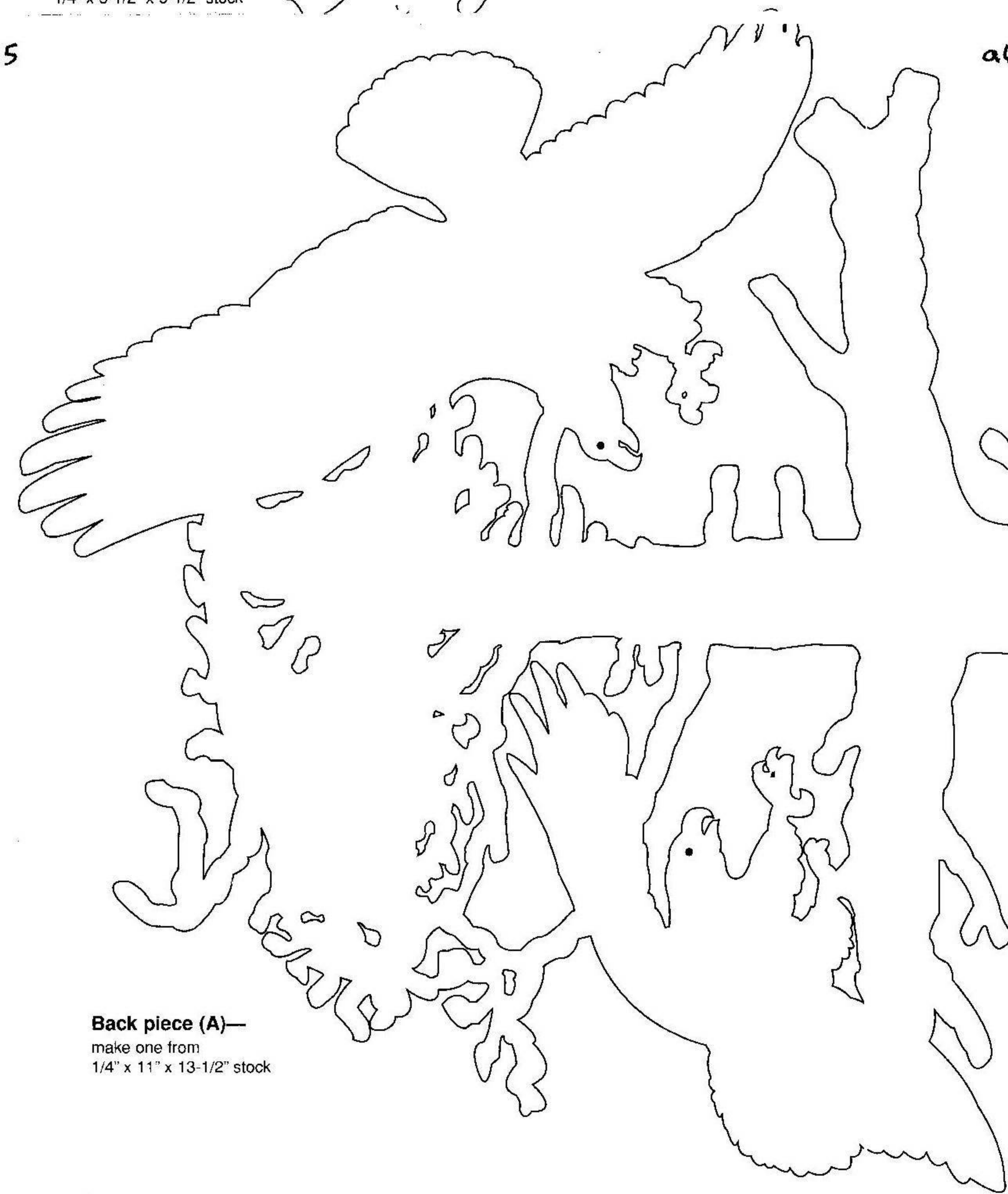
Shelf (B)—make one from 1/4" x 5" x 7-1/2" stock

Full Size Patterns  
Eagle's Nest Shelf  
from page 10



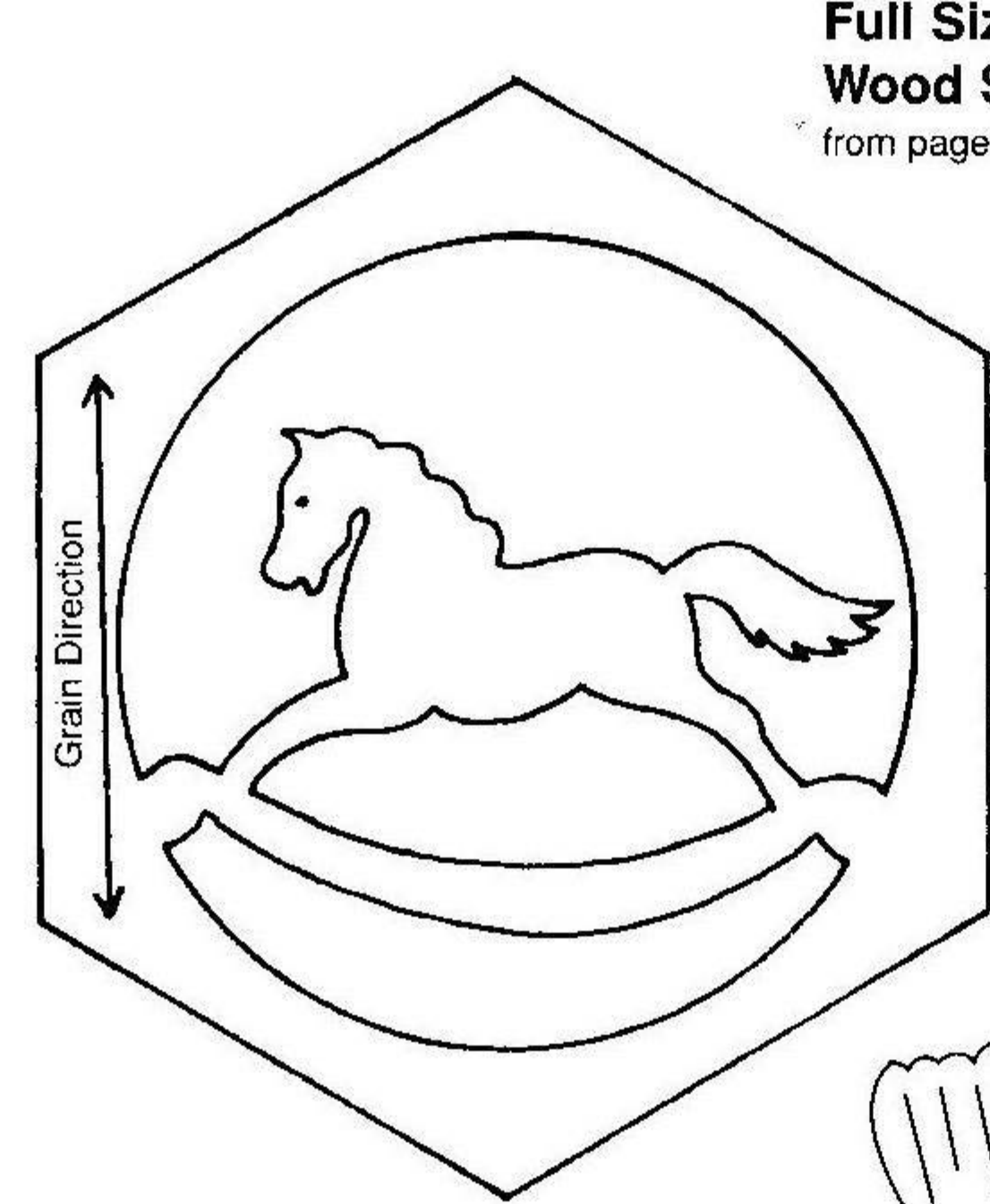
Bracket (C)—  
make one from  
1/4" x 5-1/2" x 5-1/2" stock

q5

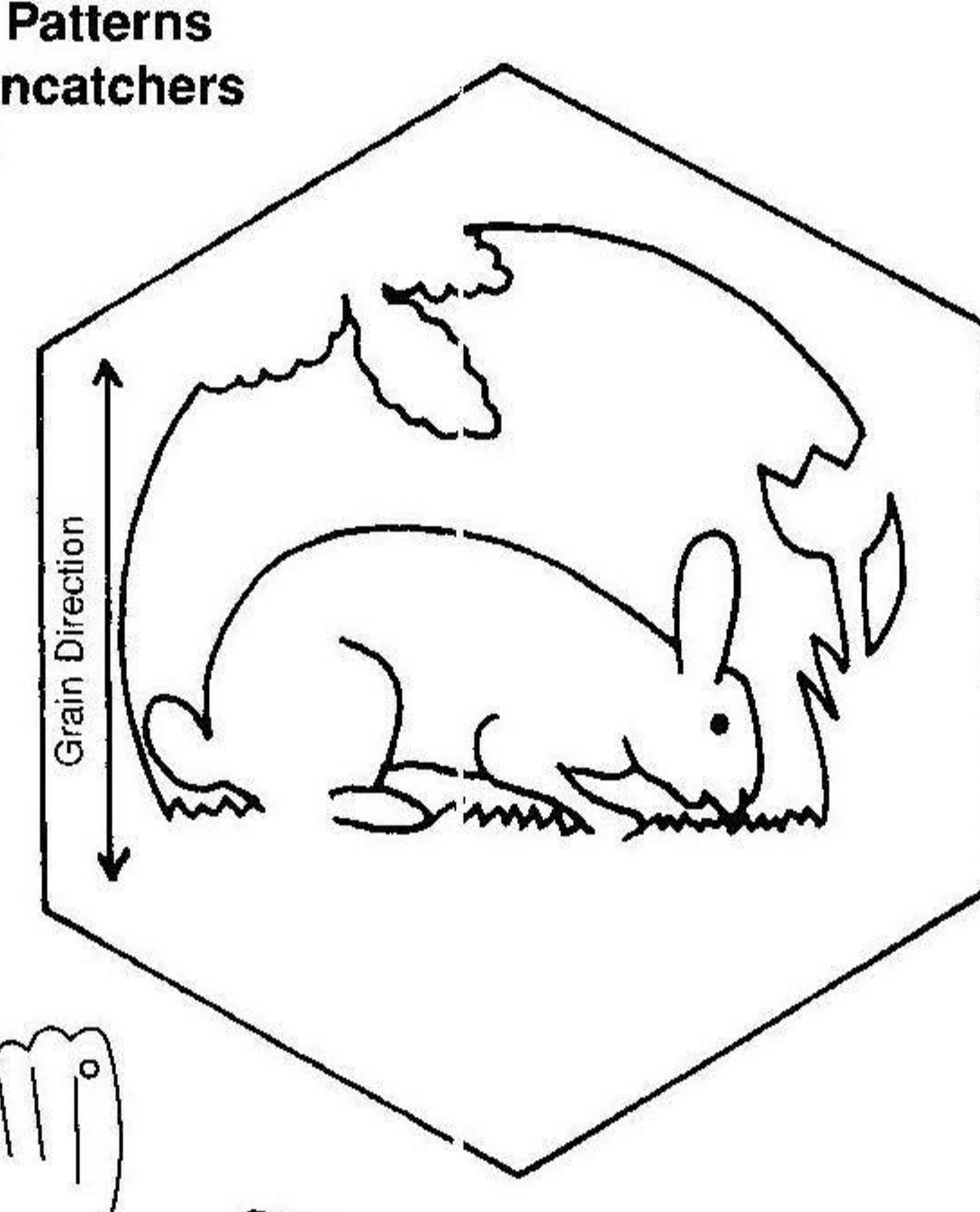


Back piece (A)—  
make one from  
1/4" x 11" x 13-1/2" stock

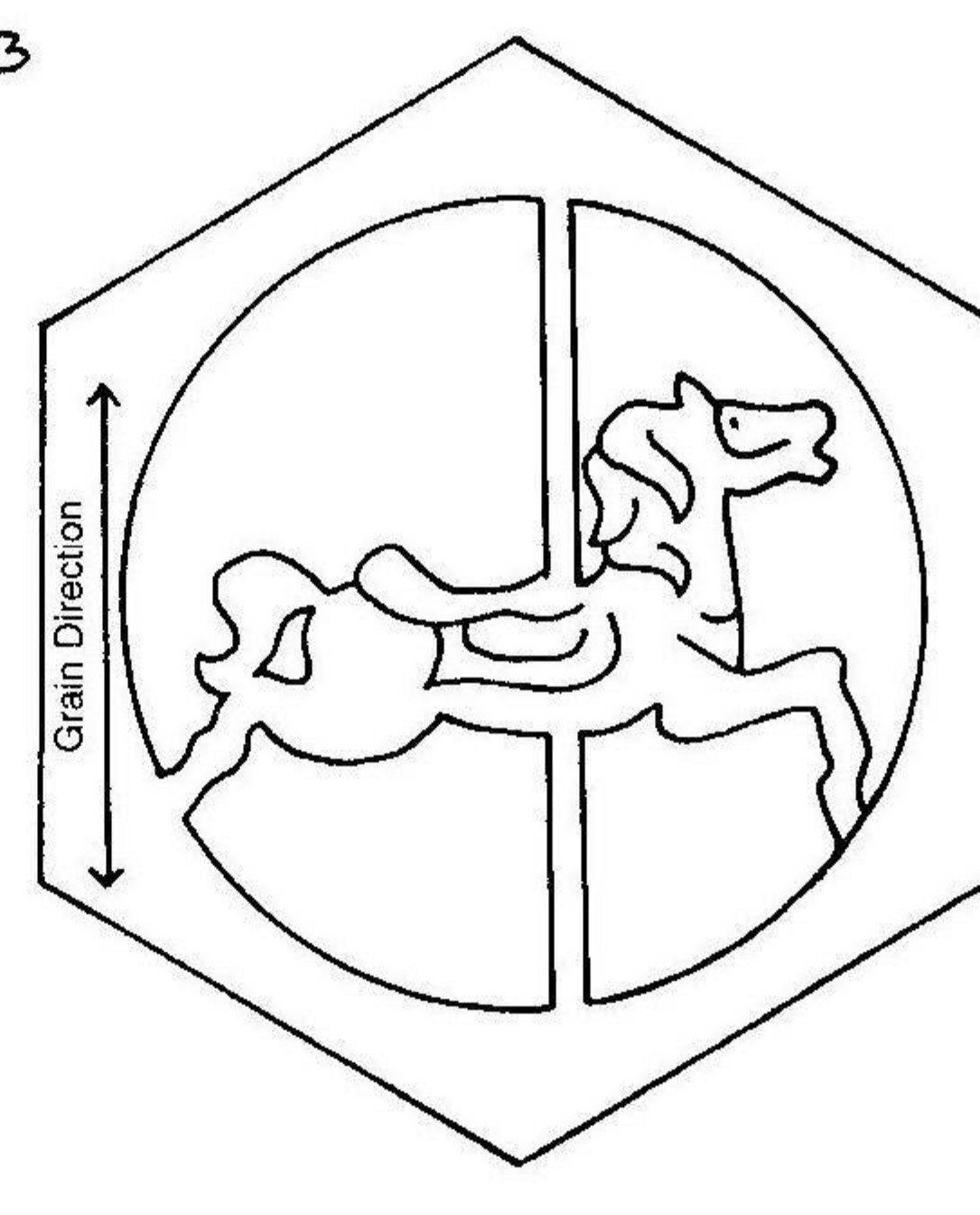
q2



Full Size Patterns  
Wood Suncatchers  
from page 14



q3



THE BEST OF...

q4



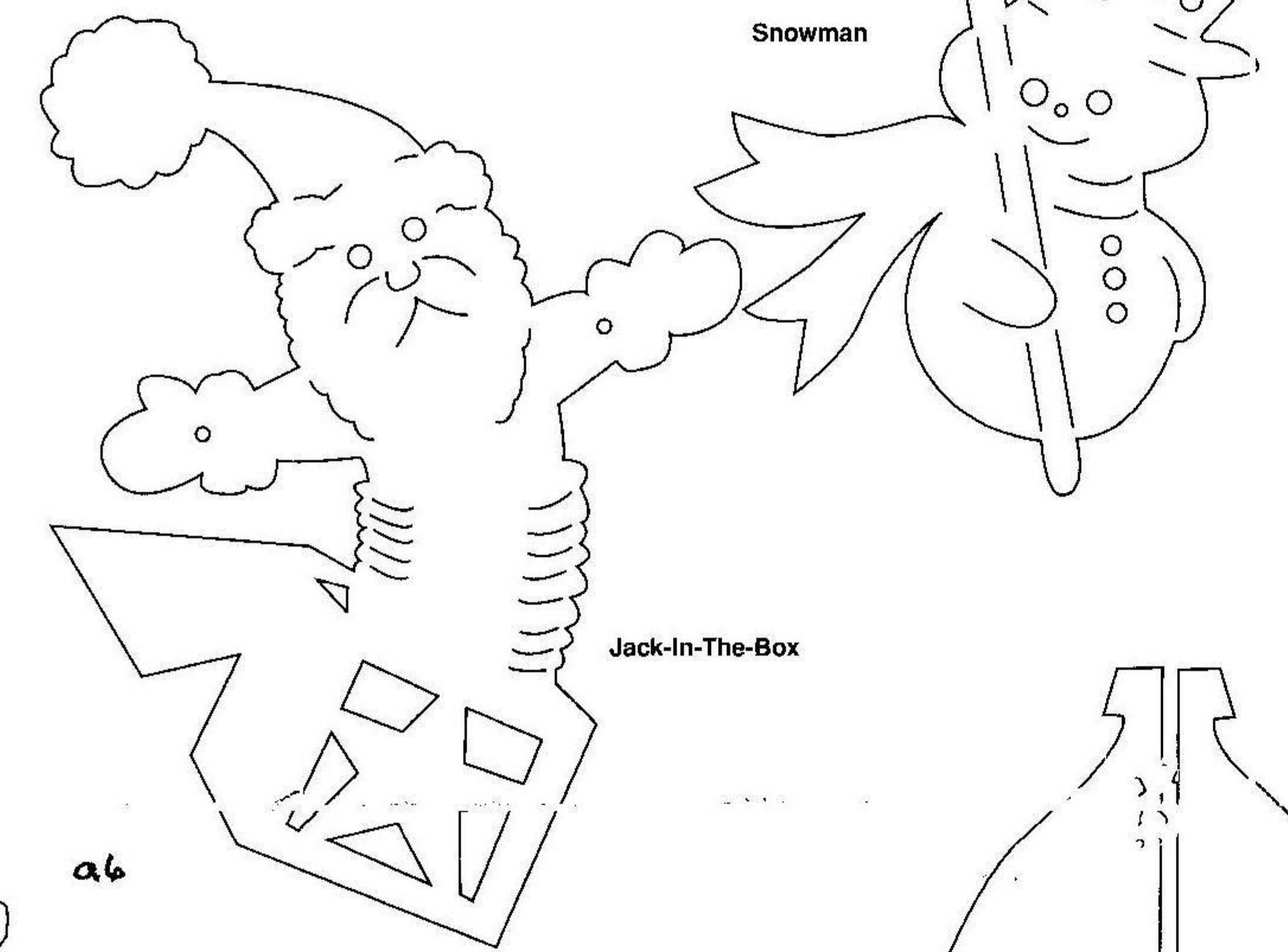
Full Size Pattern Section No. 1

Wood Suncatchers  
Eagle's Nest Shelf  
Hardwood Ornaments  
Running Elk Plaque  
Monarch of the North  
Fretwork Loon

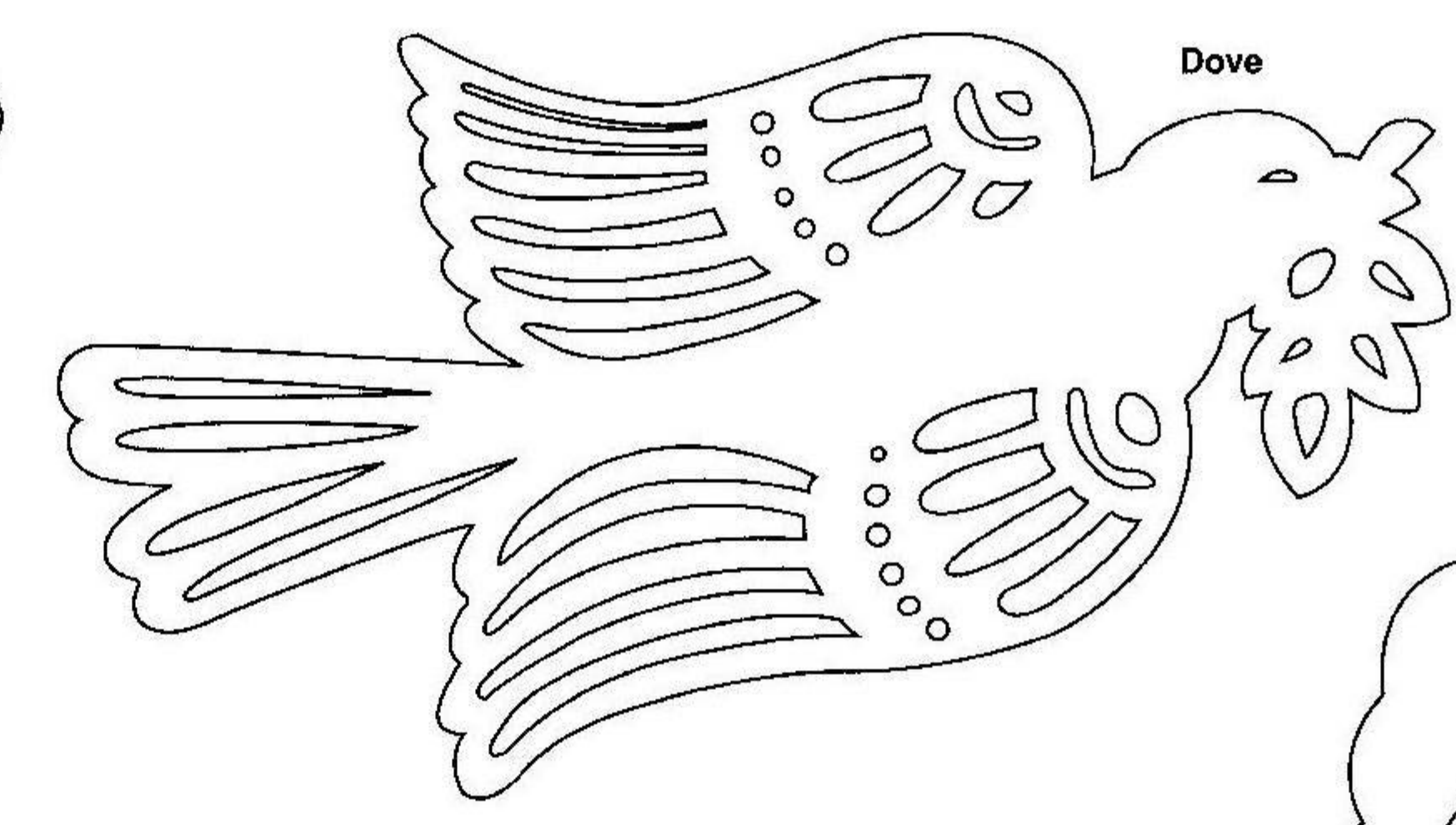
**Metric Conversions:**  
1 inch = 25.4mm = 2.54 cm = 0.0254m

**Common Measurements:**

1/16" = 1.59mm	1" = 2.54cm	9" = 22.86cm
1/8" = 3.18mm	2" = 5.08cm	10" = 25.40cm
1/4" = 6.35mm	3" = 7.62cm	11" = 27.94cm
3/8" = 9.53mm	4" = 10.16 cm	12" = 30.48cm
1/2" = 1.27cm	5" = 12.70cm	24" = 60.96cm
5/8" = 1.59cm	6" = 15.24cm	36" = 91.44cm
3/4" = 1.91cm	7" = 17.78cm	45" = 1.14m
7/8" = 2.22cm	8" = 20.32cm	60" = 1.52m

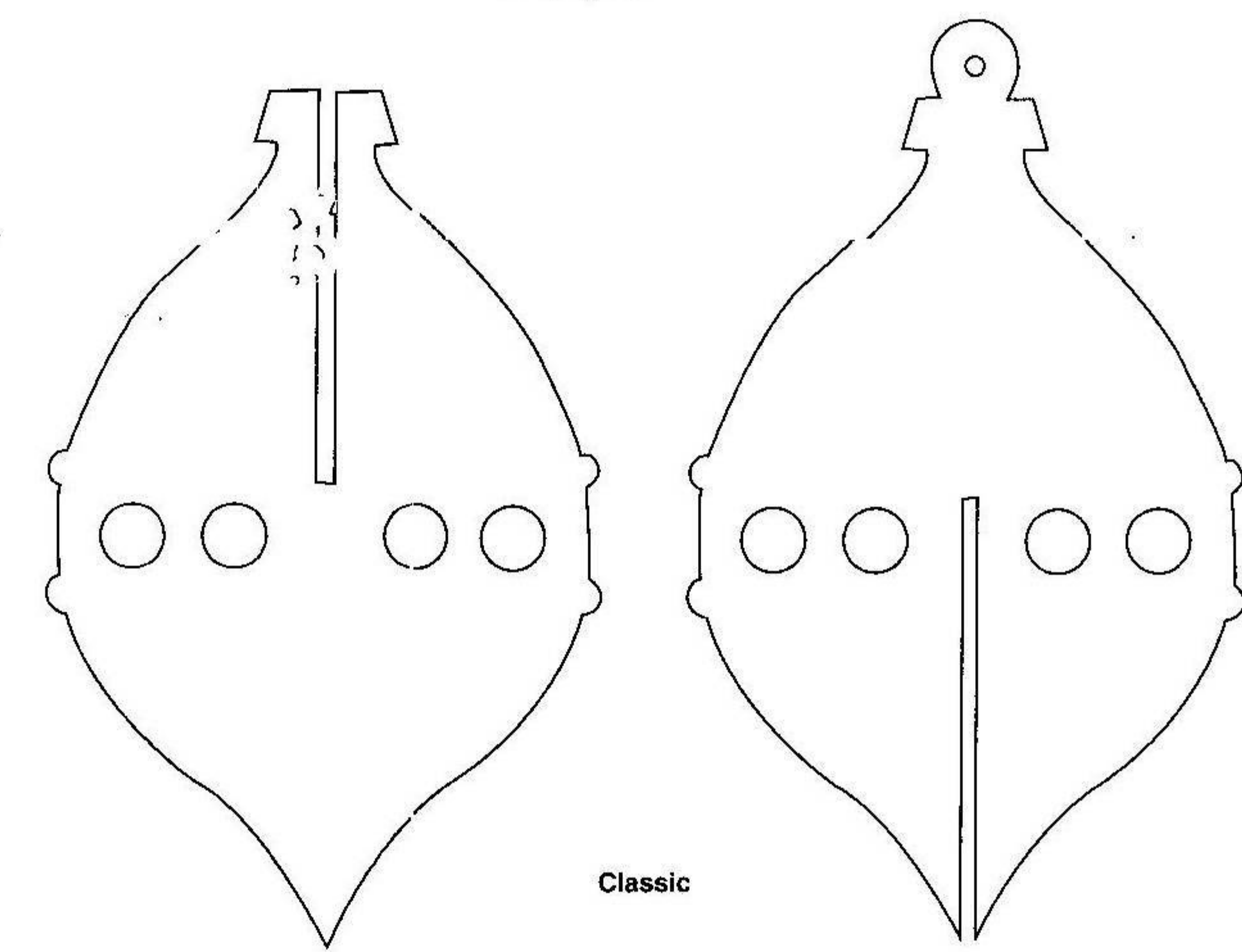


Snowman



Dove

Full Size Patterns  
Hardwood Ornaments  
from page 53



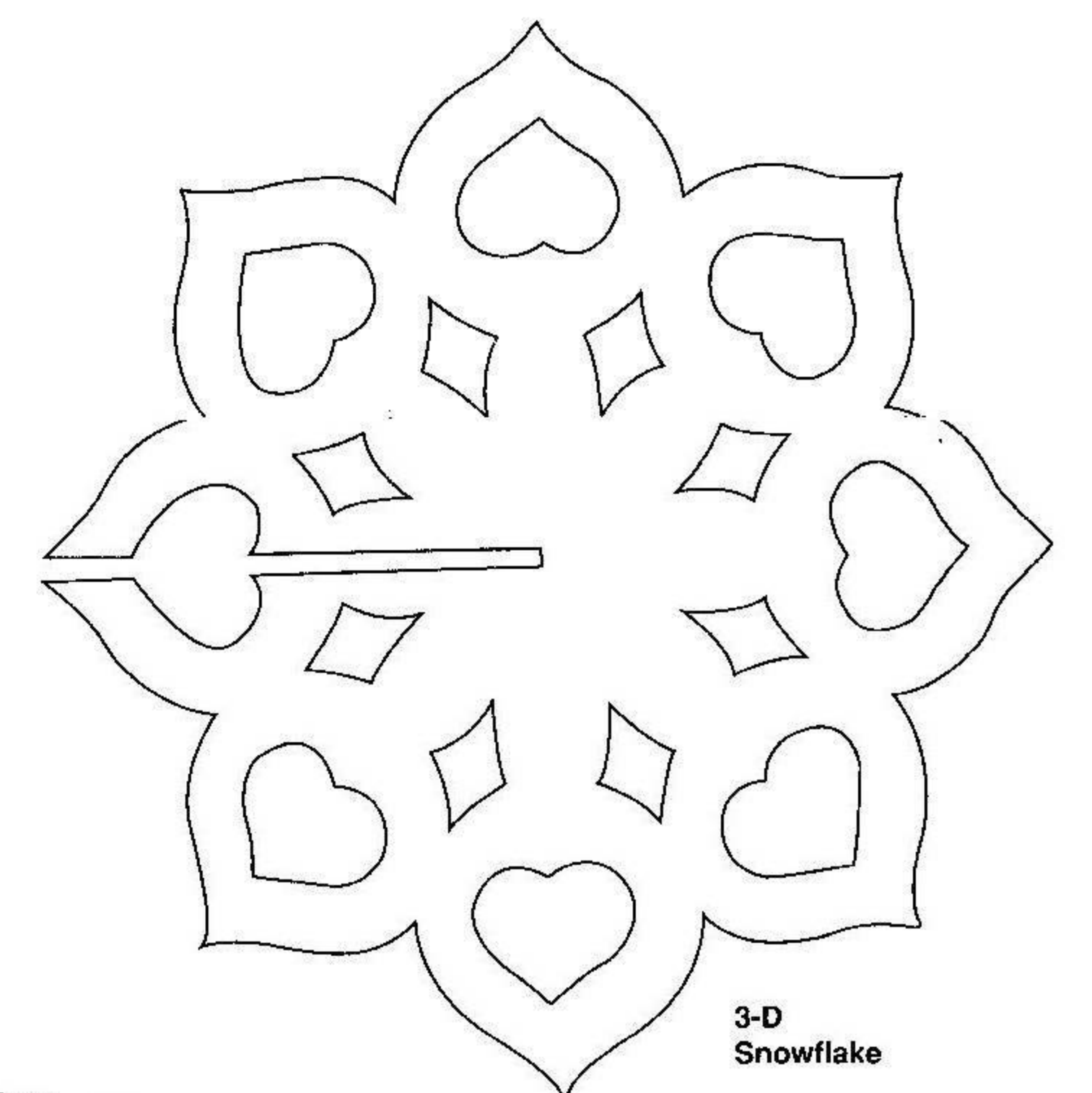
Classic

q7

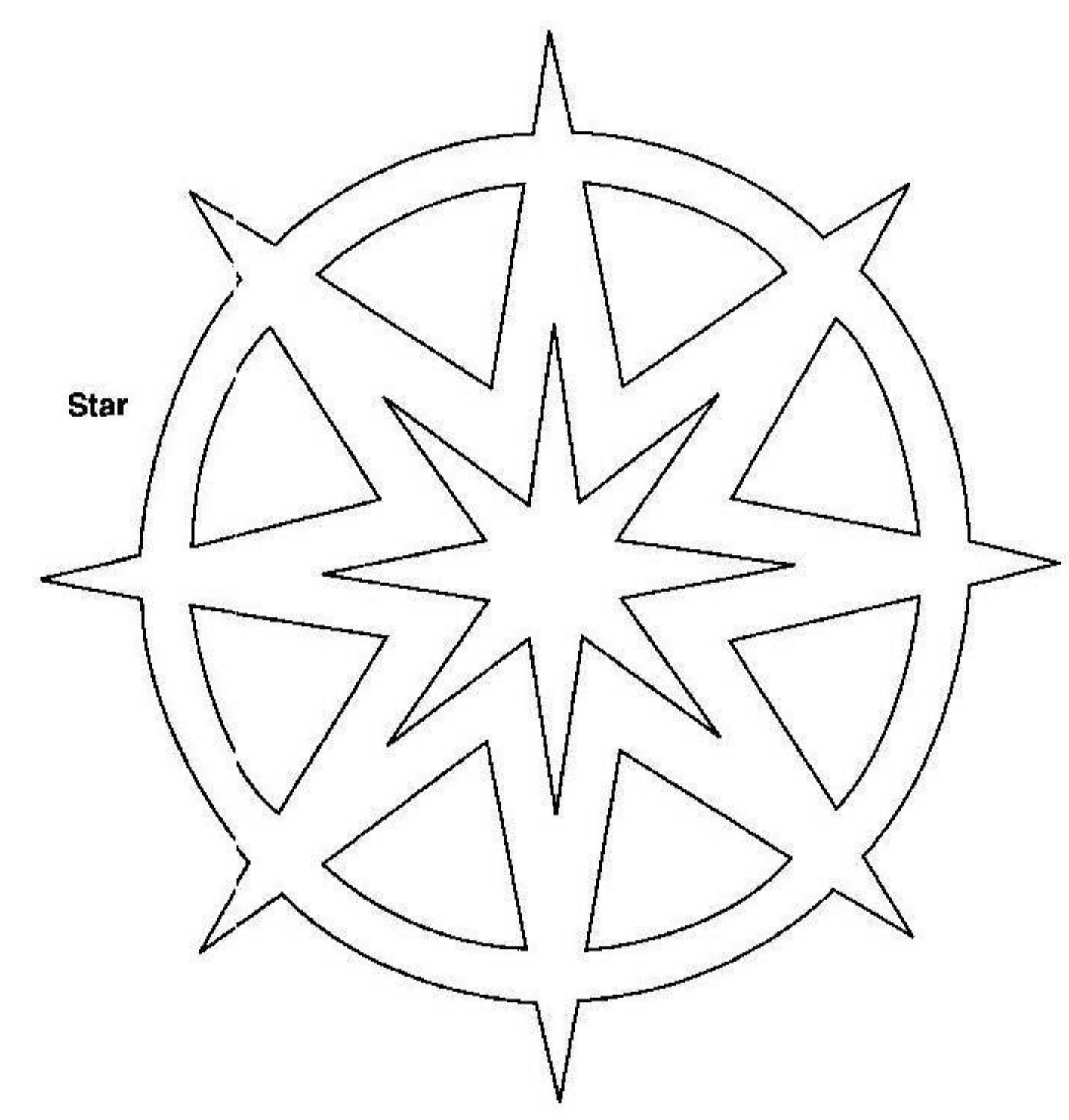


North Wind

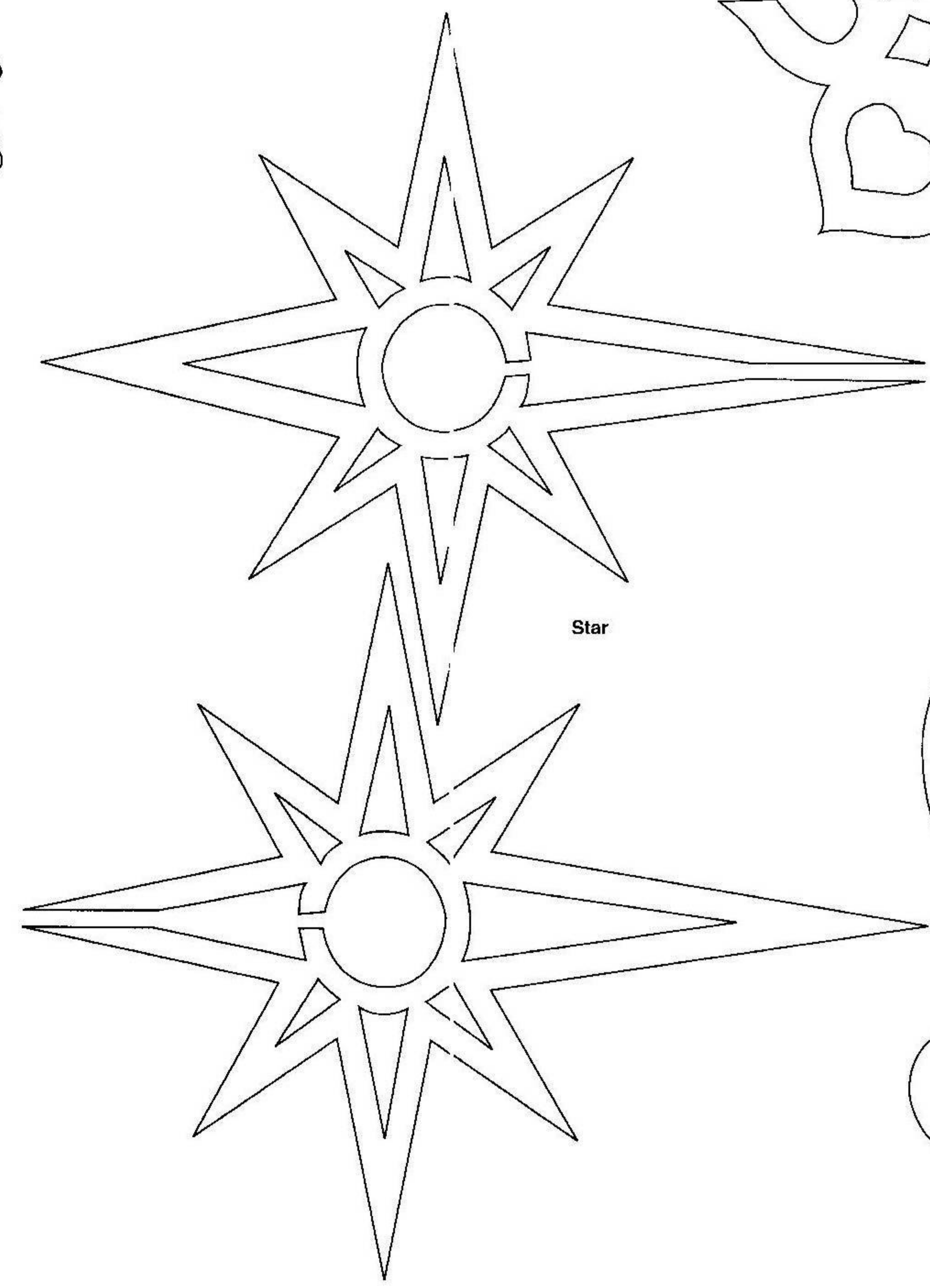
q8



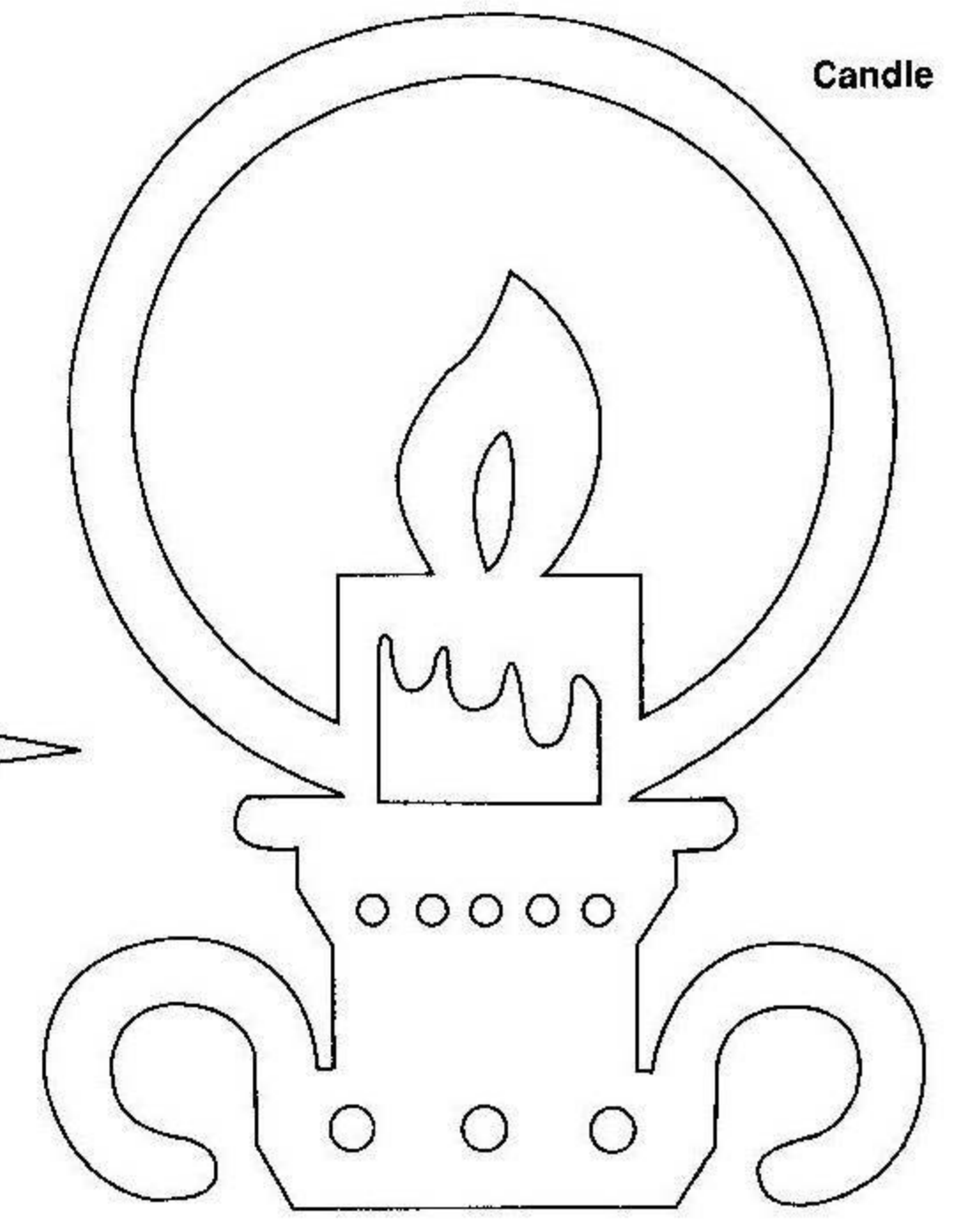
3-D  
Snowflake



Star



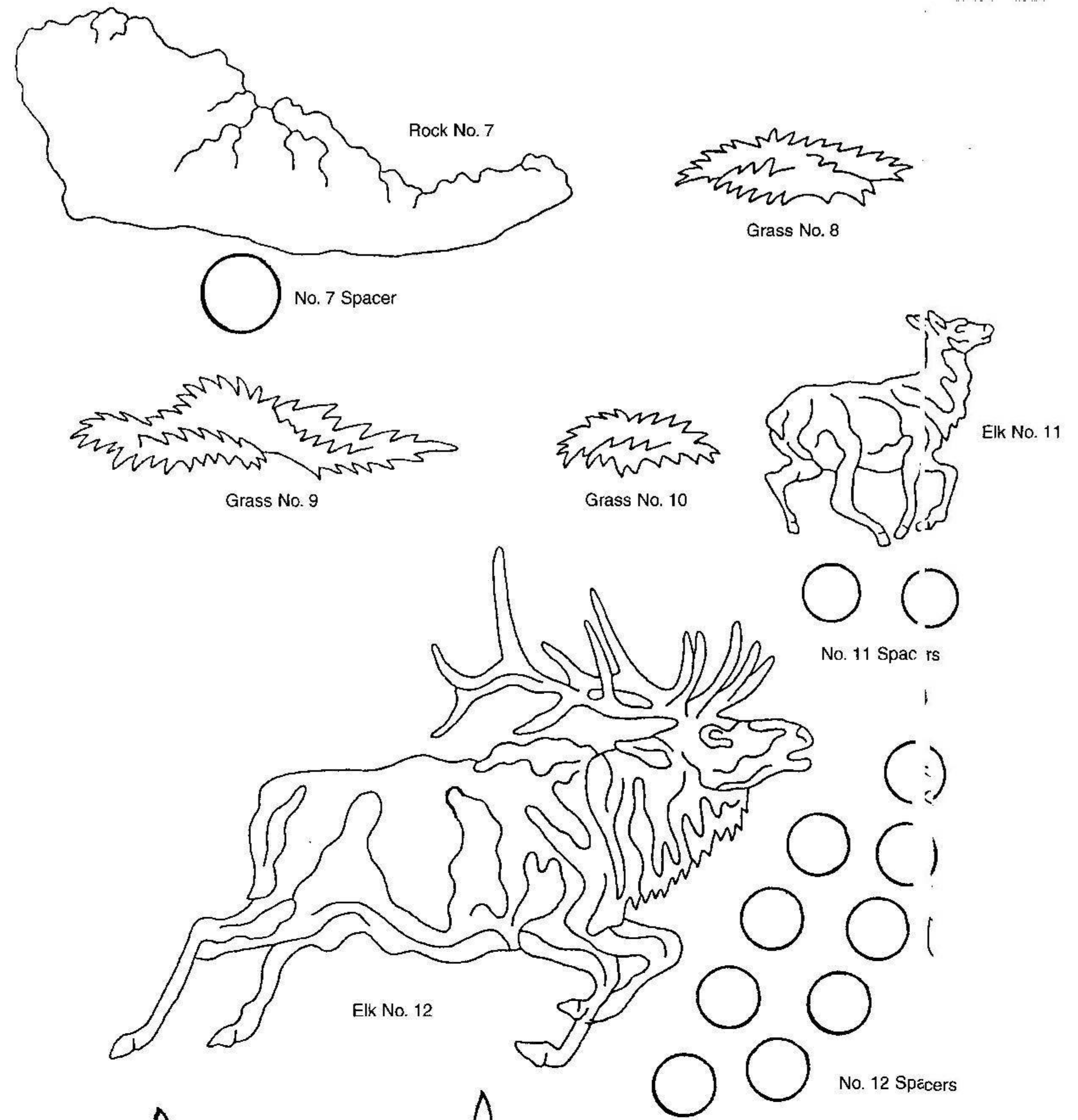
Star



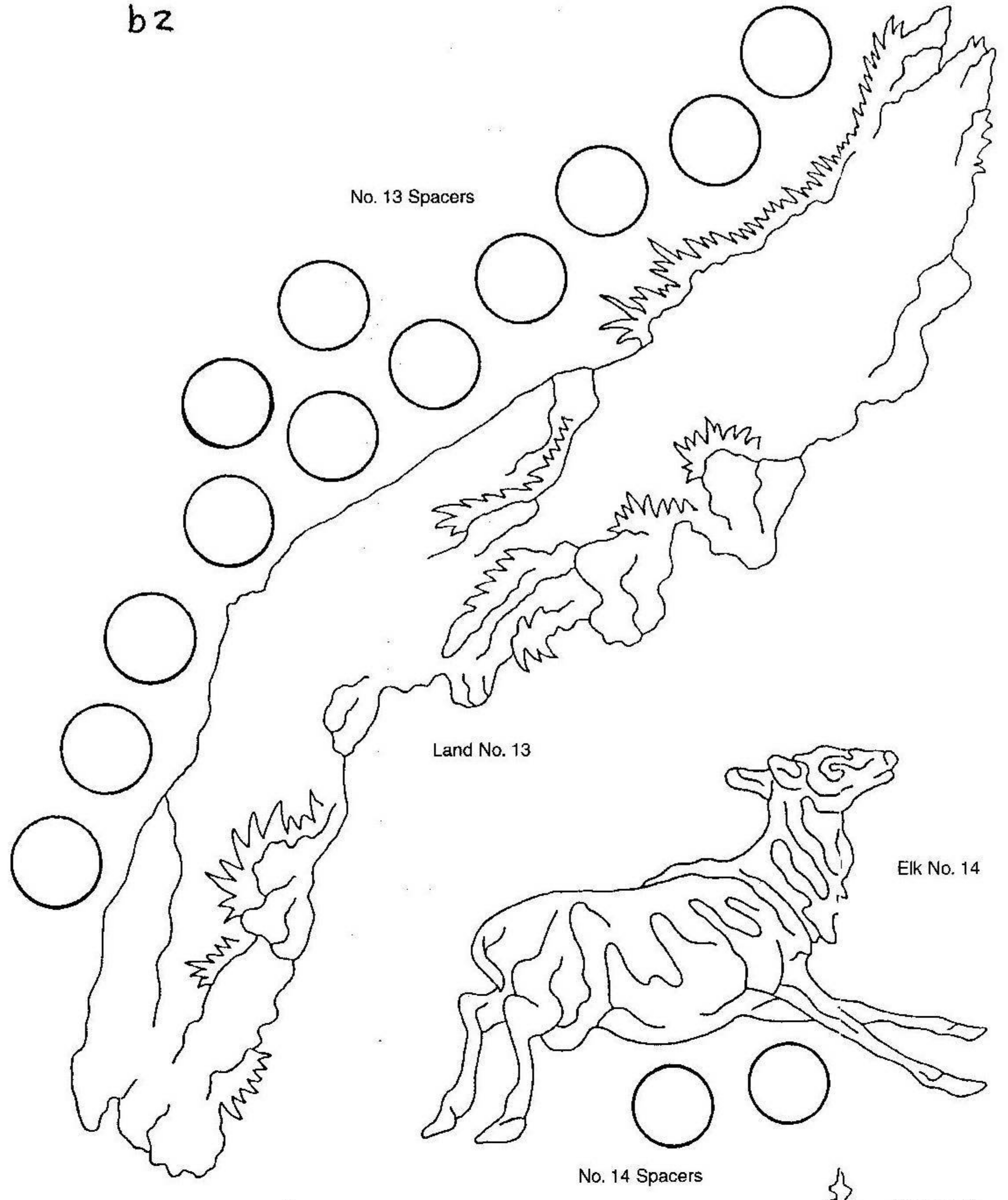
Candle

b1

Full Size Patterns  
Running Elk Plaque  
from page 56

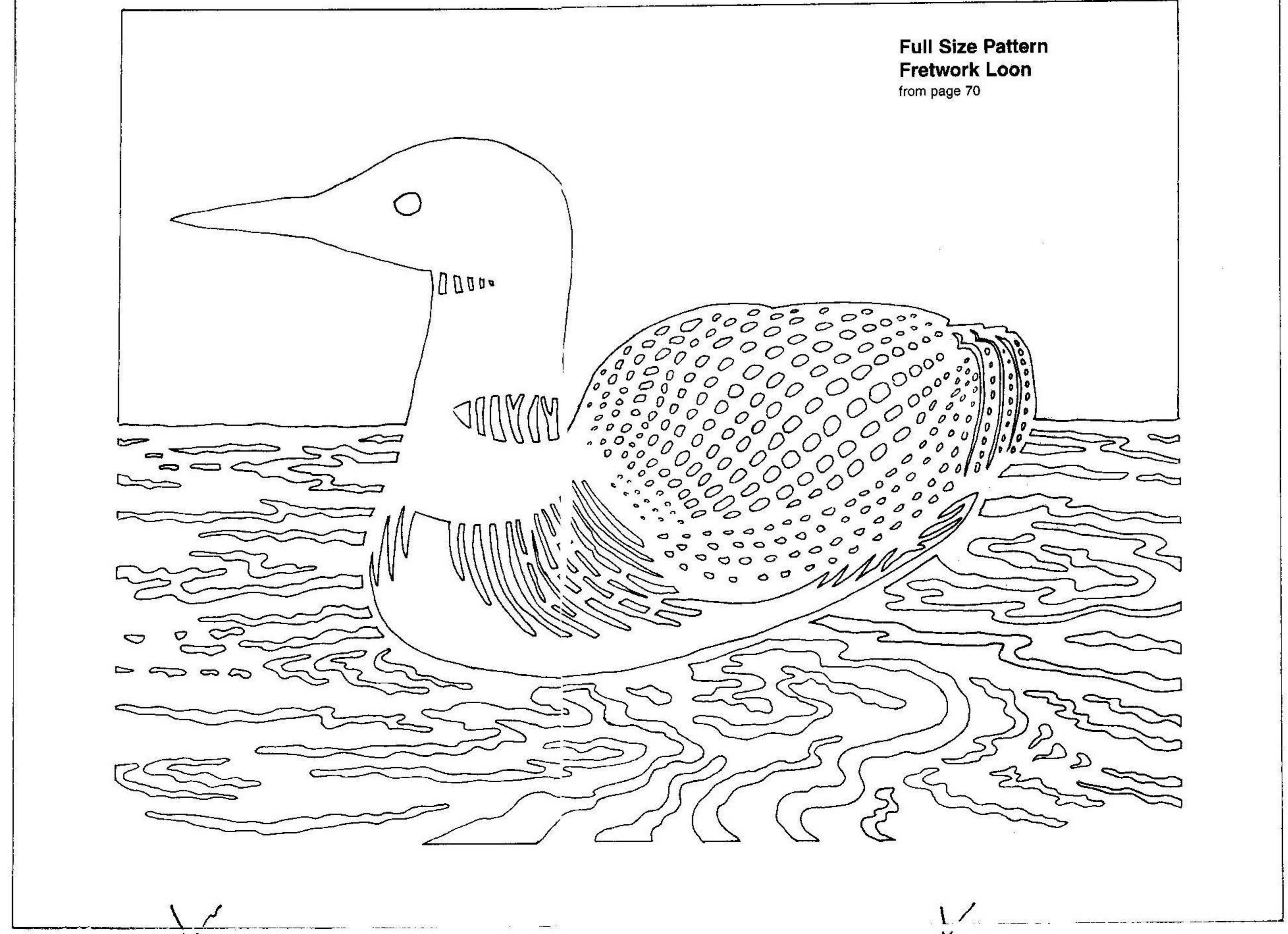


b2



b3

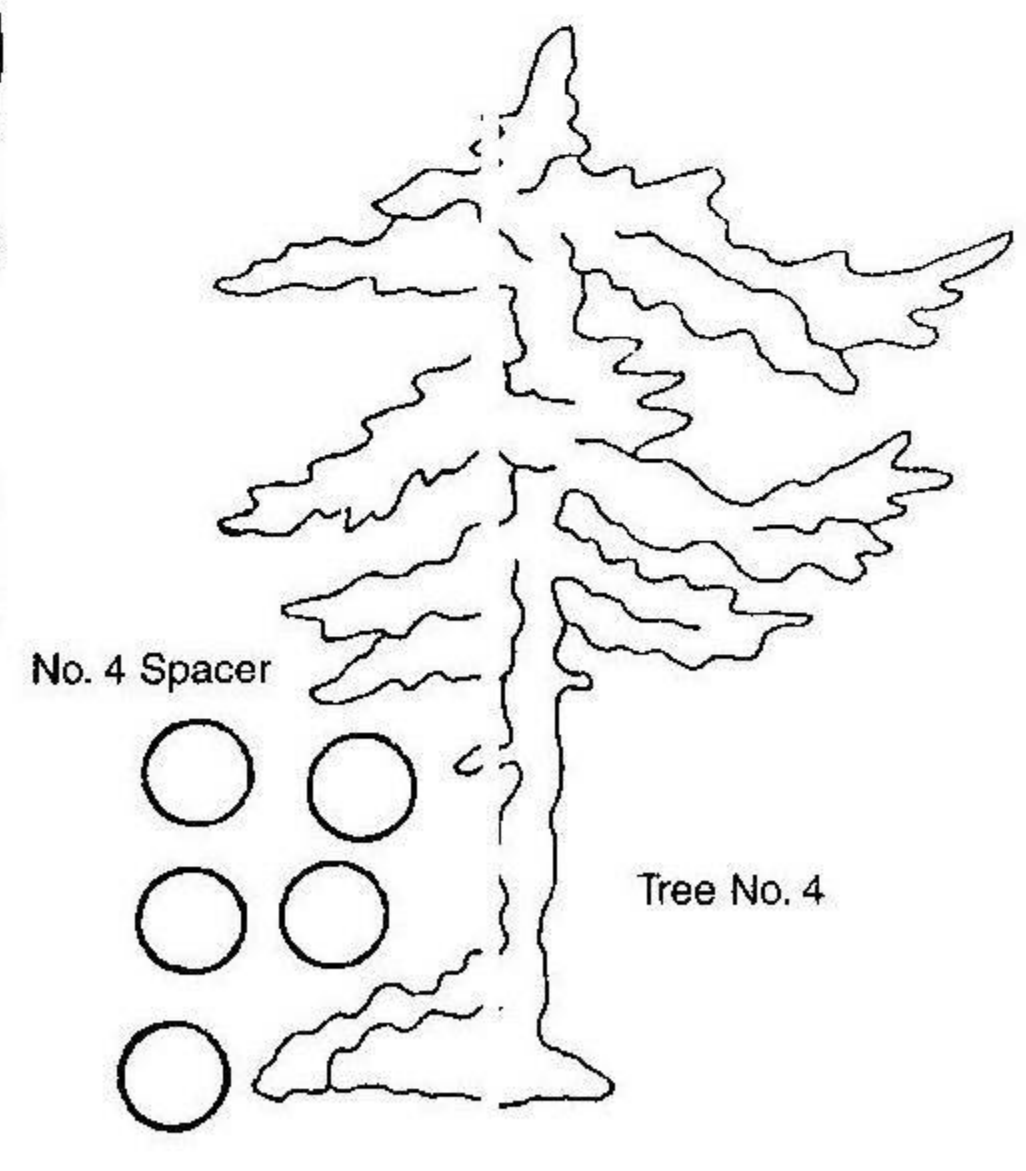
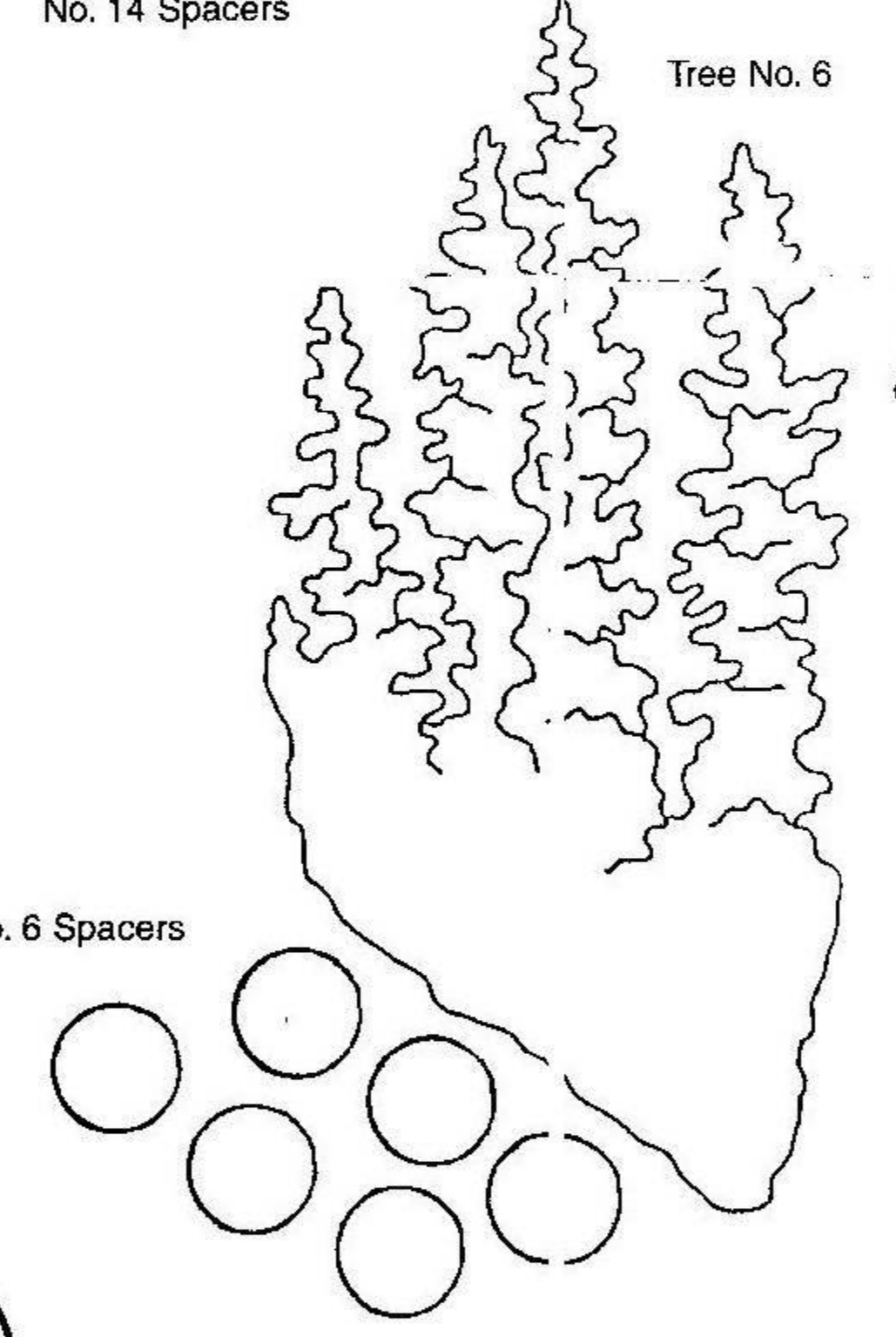
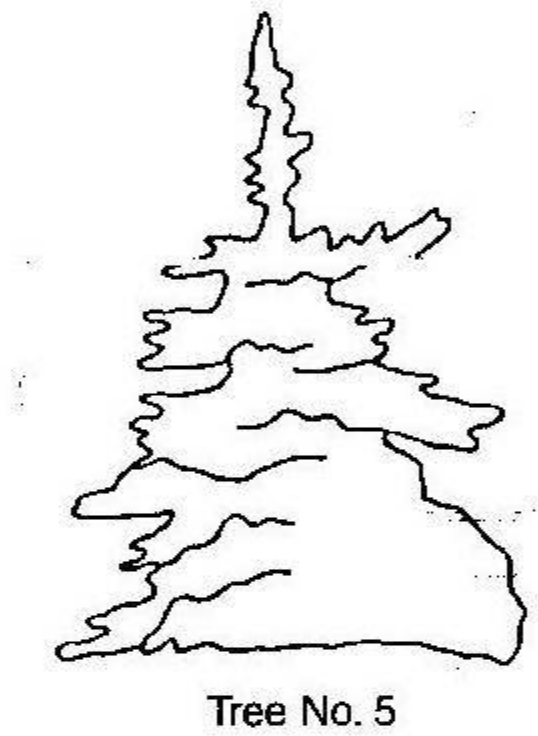
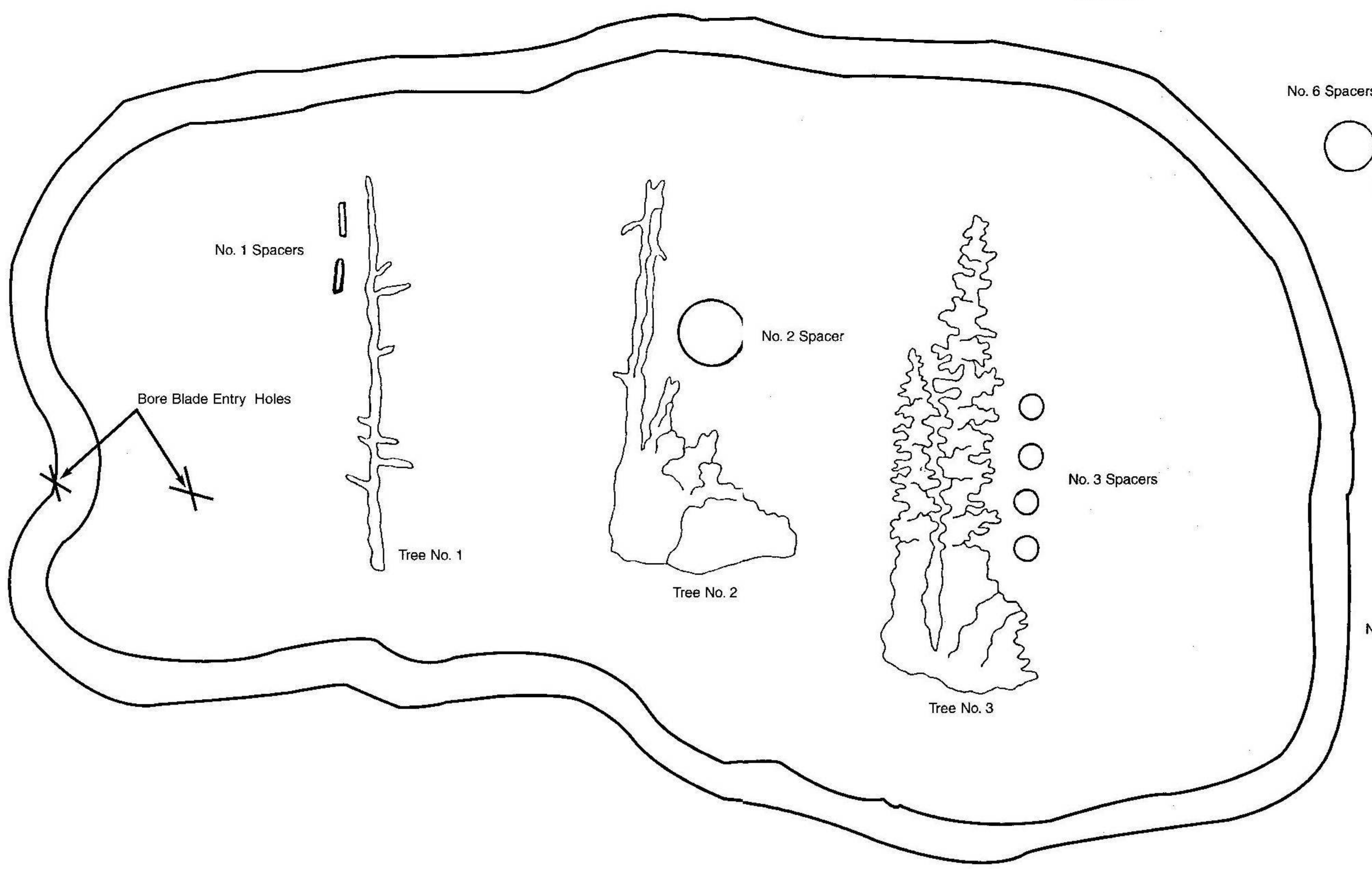
b4



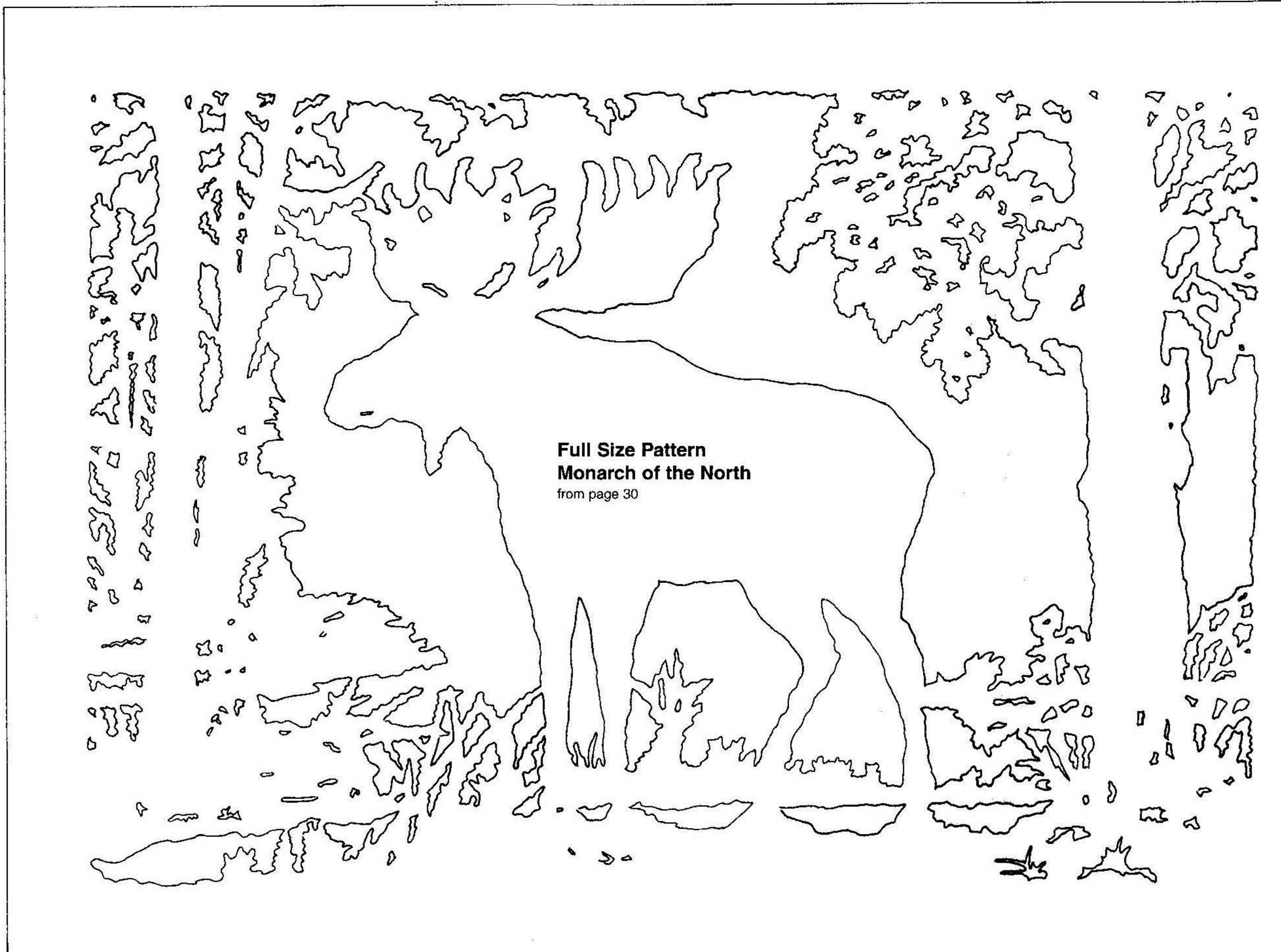
b4  
5

b5

b6



b7



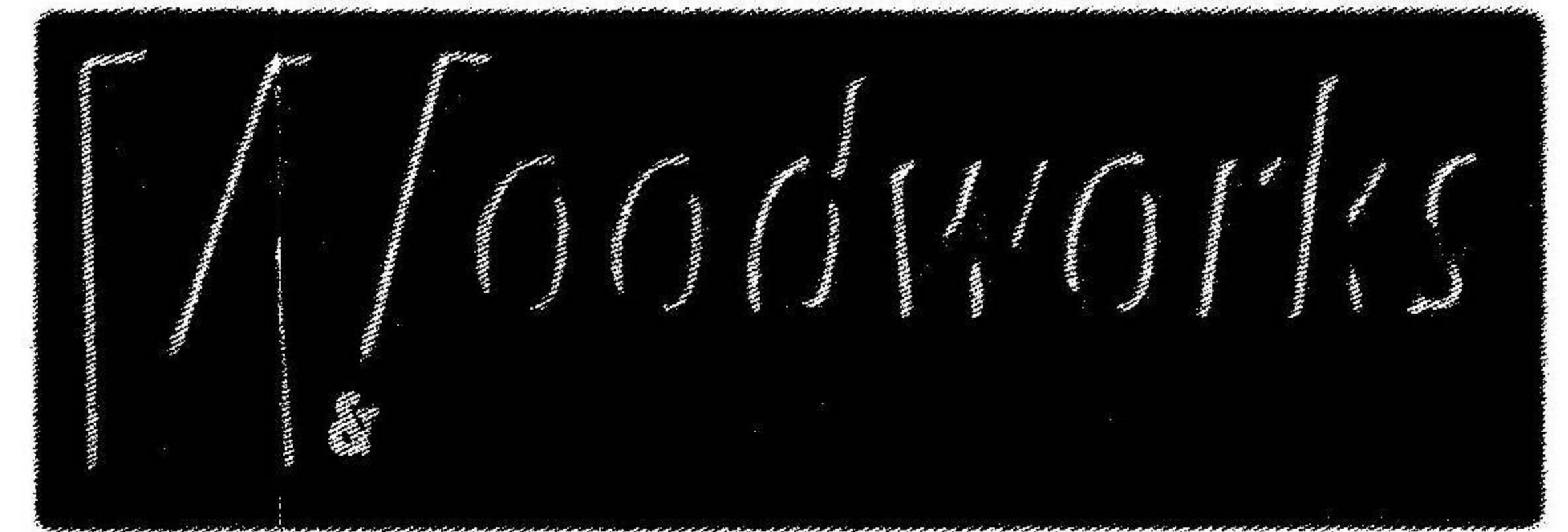
C1

C2

C3

C4

THE BEST OF...



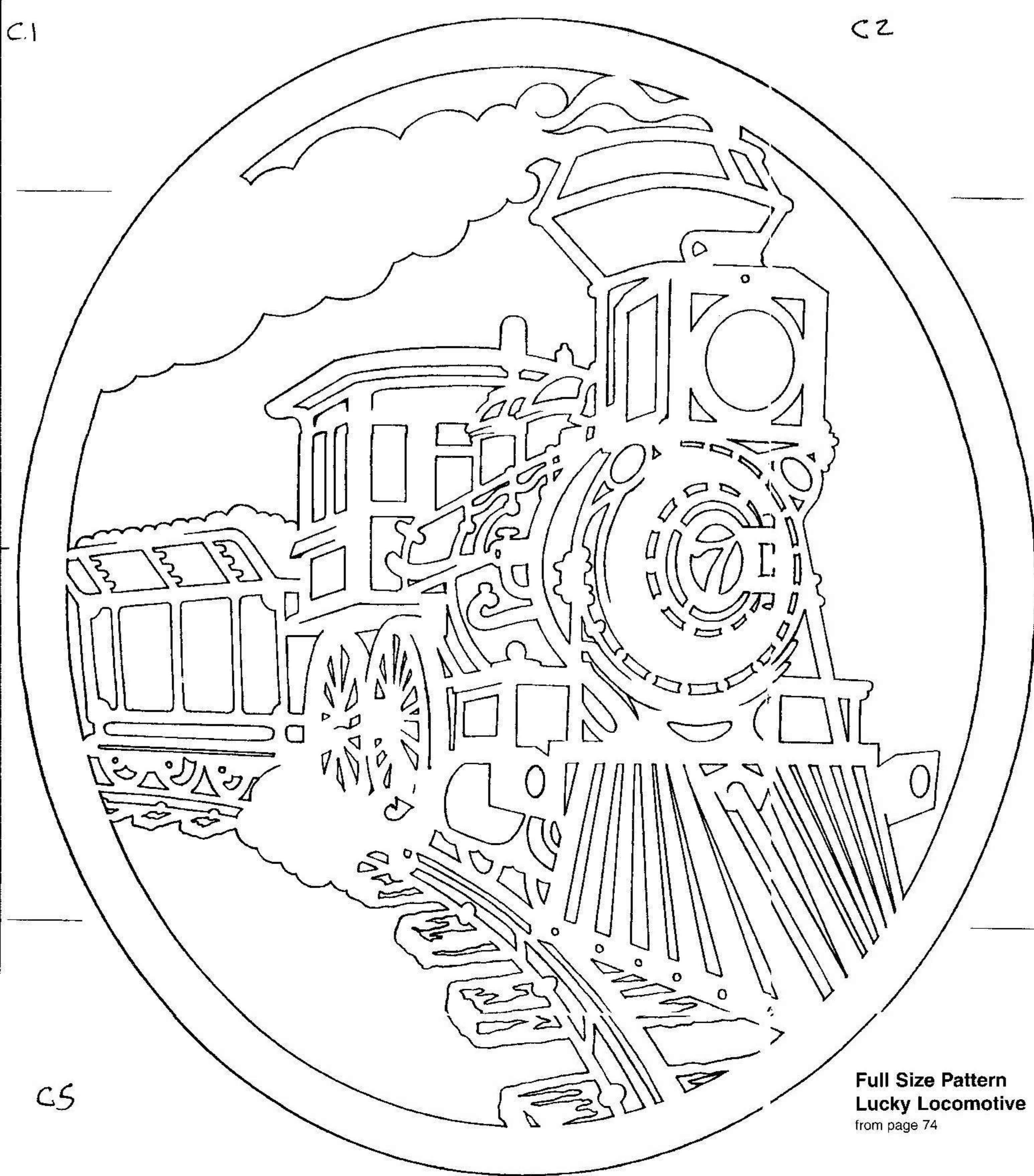
Full Size Pattern Section No. 2

- Gentleman's Tie Rack
- Decorative Stool
- Dog Pull Toy
- Lucky Locomotive
- CD Carousel
- Cowboy Silhouette

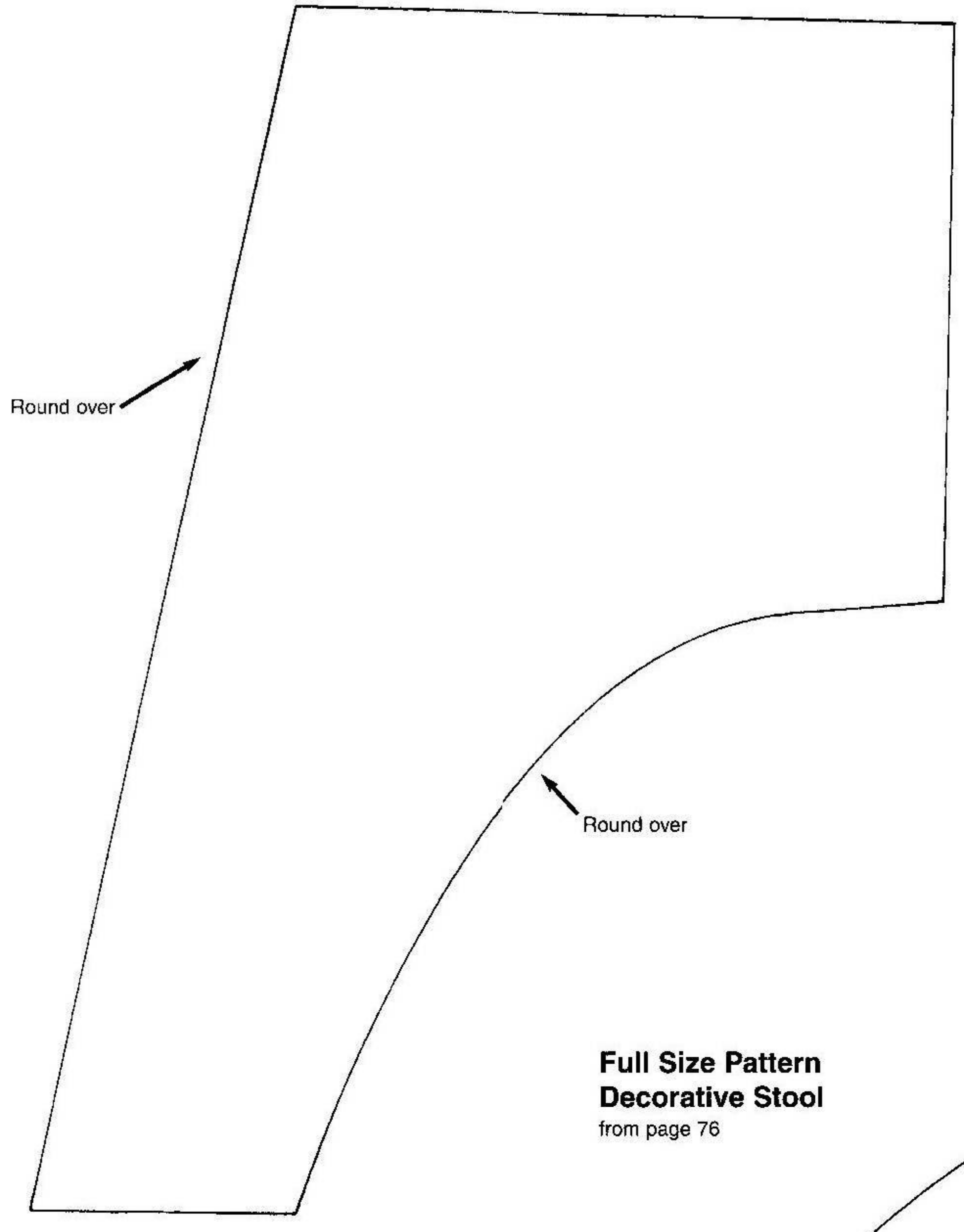
**Metric Conversions:**  
1 inch = 25.4mm = 2.54 cm = 0.0254m

**Common Measurements:**

1/16" = 1.59mm	1" = 2.54cm	9" = 22.86cm
1/8" = 3.18mm	2" = 5.08cm	10" = 25.40cm
1/4" = 6.35mm	3" = 7.62cm	11" = 27.94cm
3/8" = 9.53mm	4" = 10.16cm	12" = 30.48cm
1/2" = 1.27cm	5" = 12.70cm	24" = 60.96cm
5/8" = 1.59cm	6" = 15.24cm	36" = 91.44cm
3/4" = 1.91cm	7" = 17.78cm	45" = 1.14m
7/8" = 2.22cm	8" = 20.32cm	60" = 1.52m

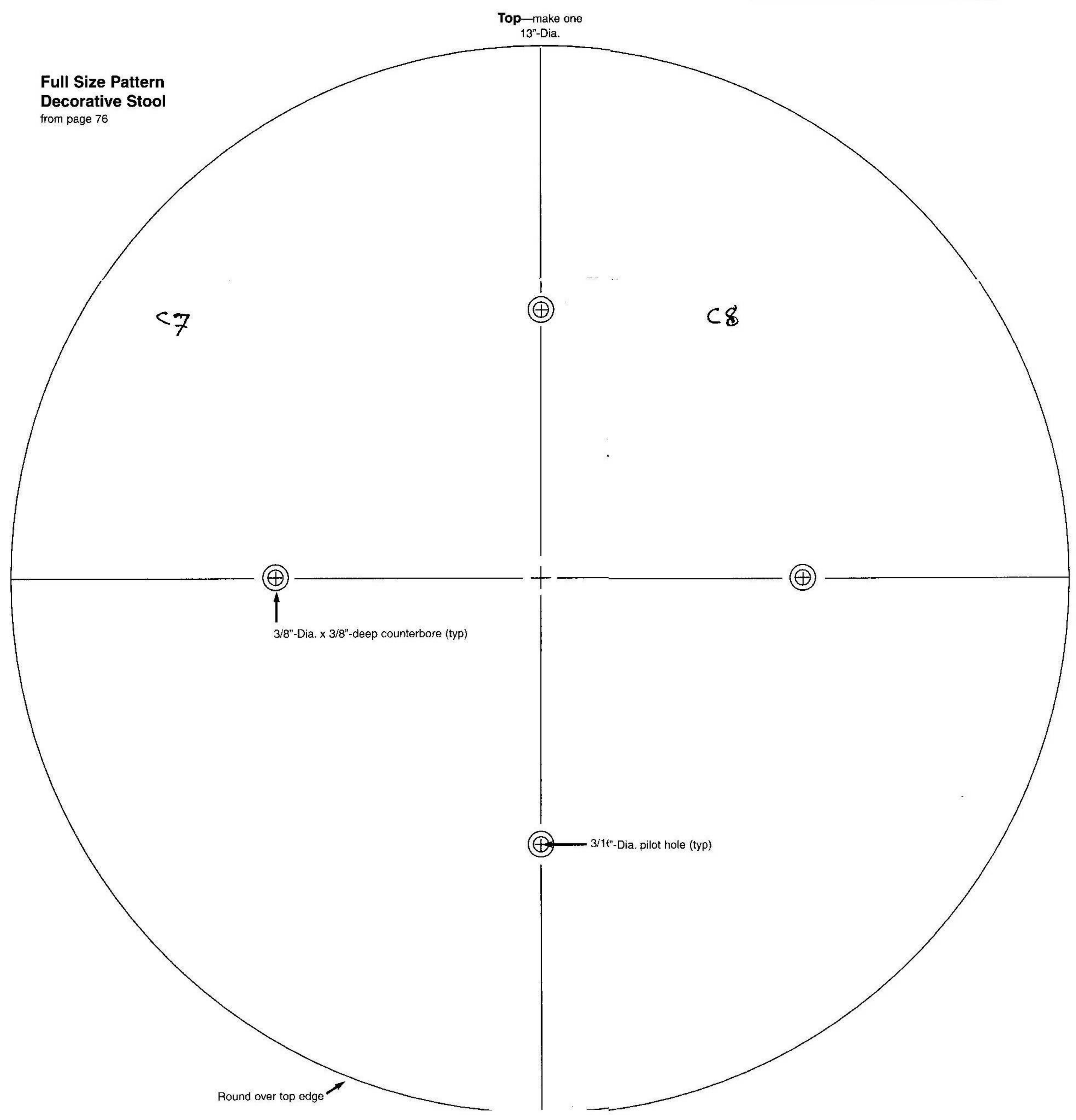


Full Size Pattern Lucky Locomotive from page 74



Leg—make four

C6



Full Size Pattern Decorative Stool from page 76

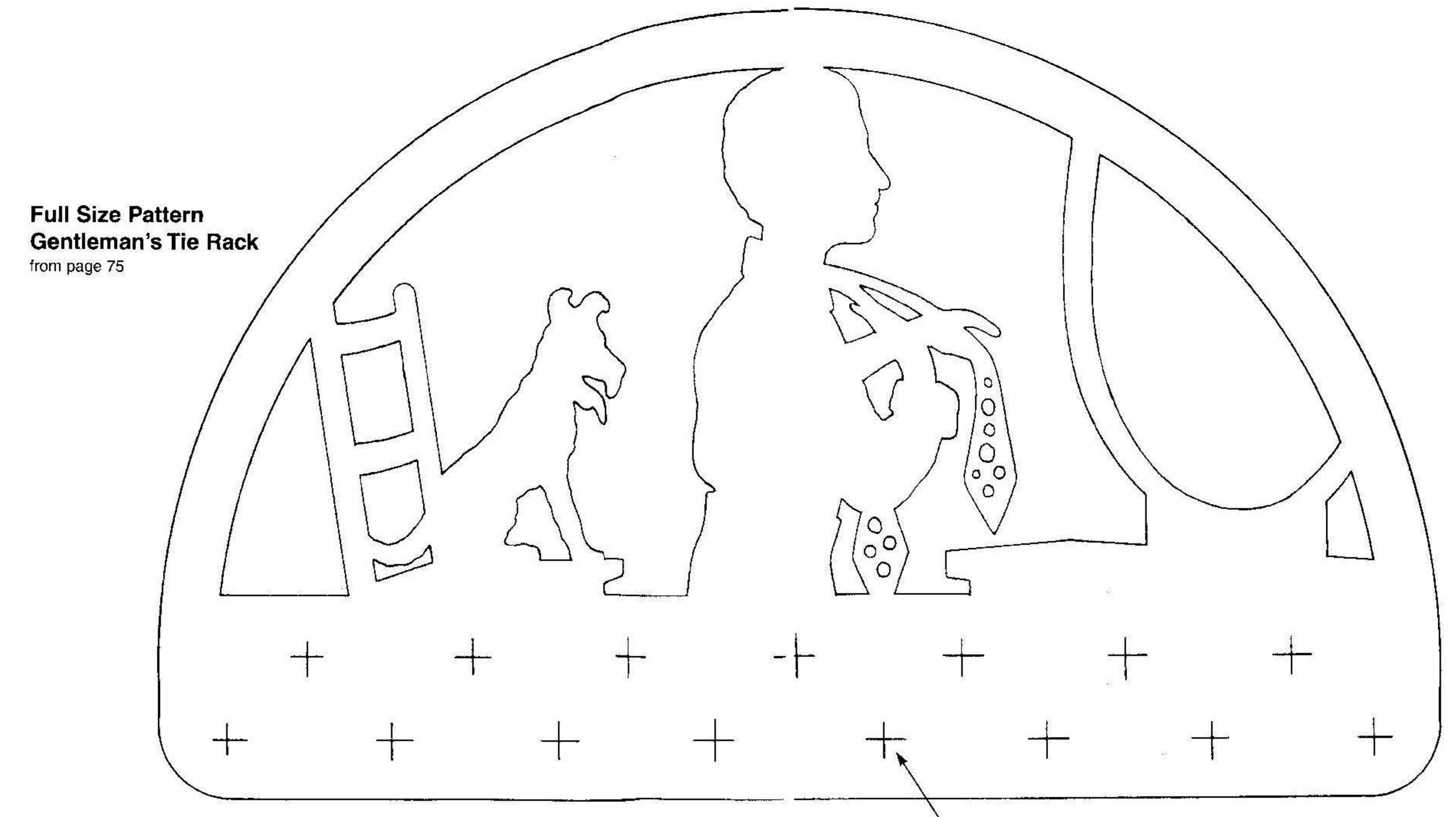
Top—make one 13"-Dia.

3/8"-Dia. x 3/8"-deep counterbore (typ)

3/16"-Dia. pilot hole (typ)

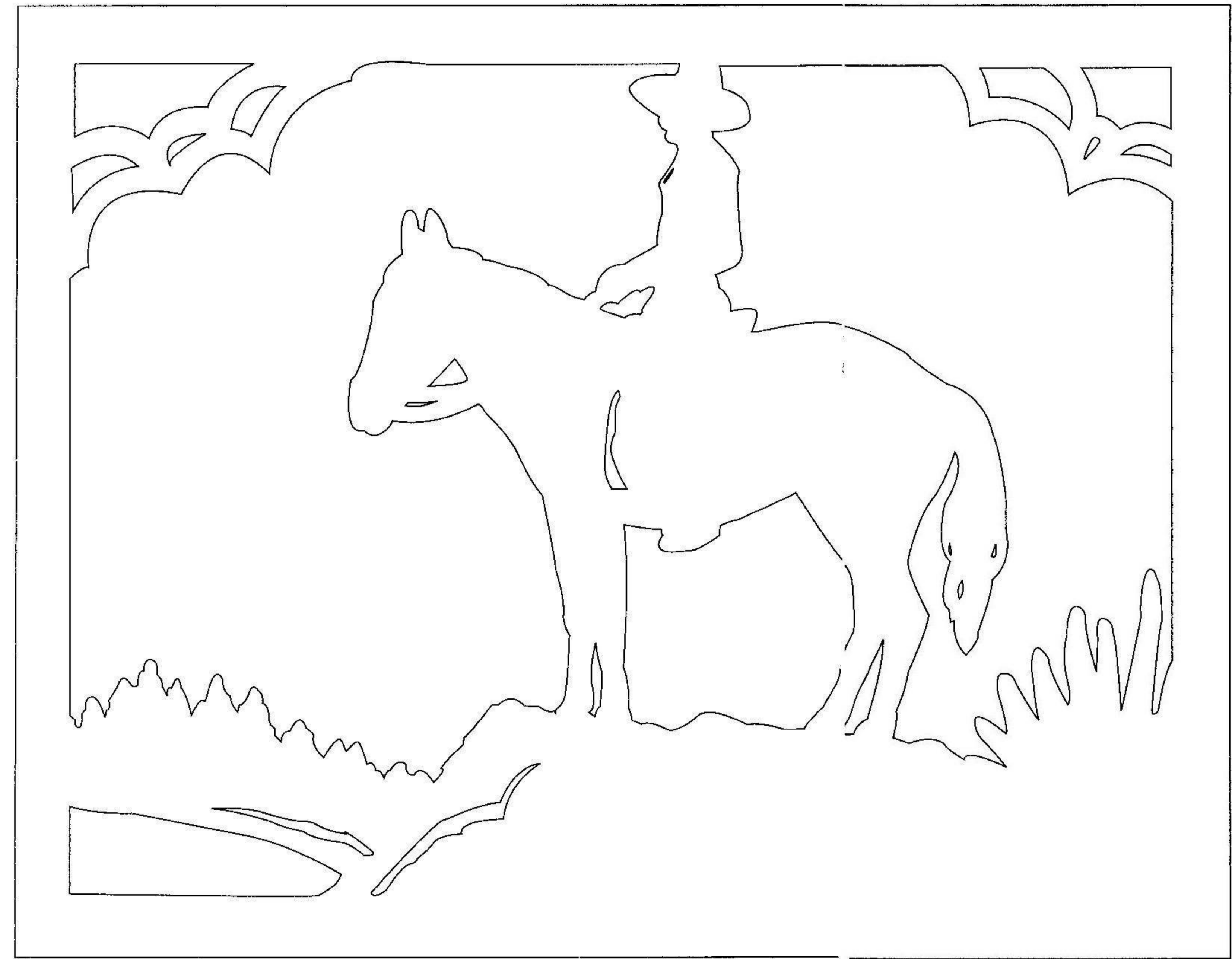
Round over top edge

C5

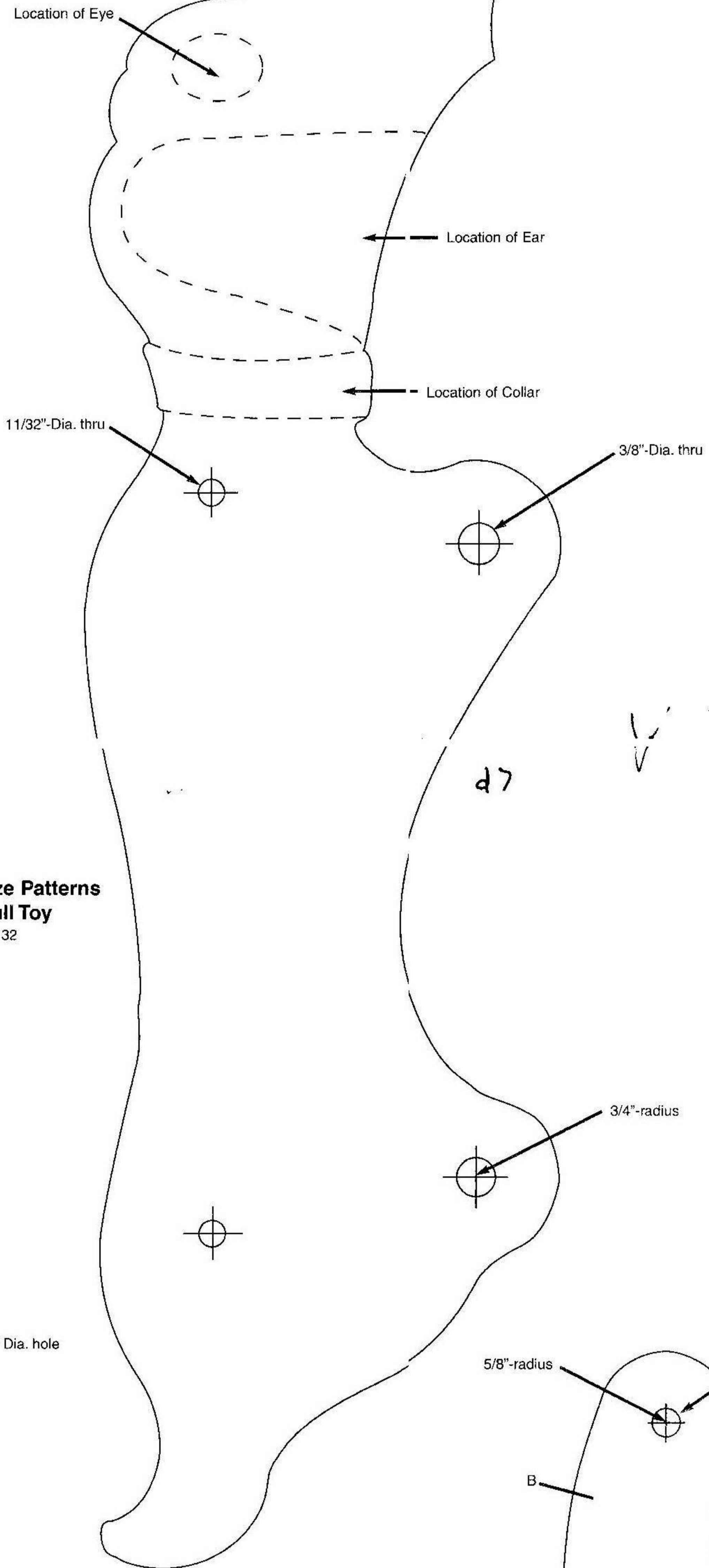


Full Size Pattern Gentleman's Tie Rack from page 75

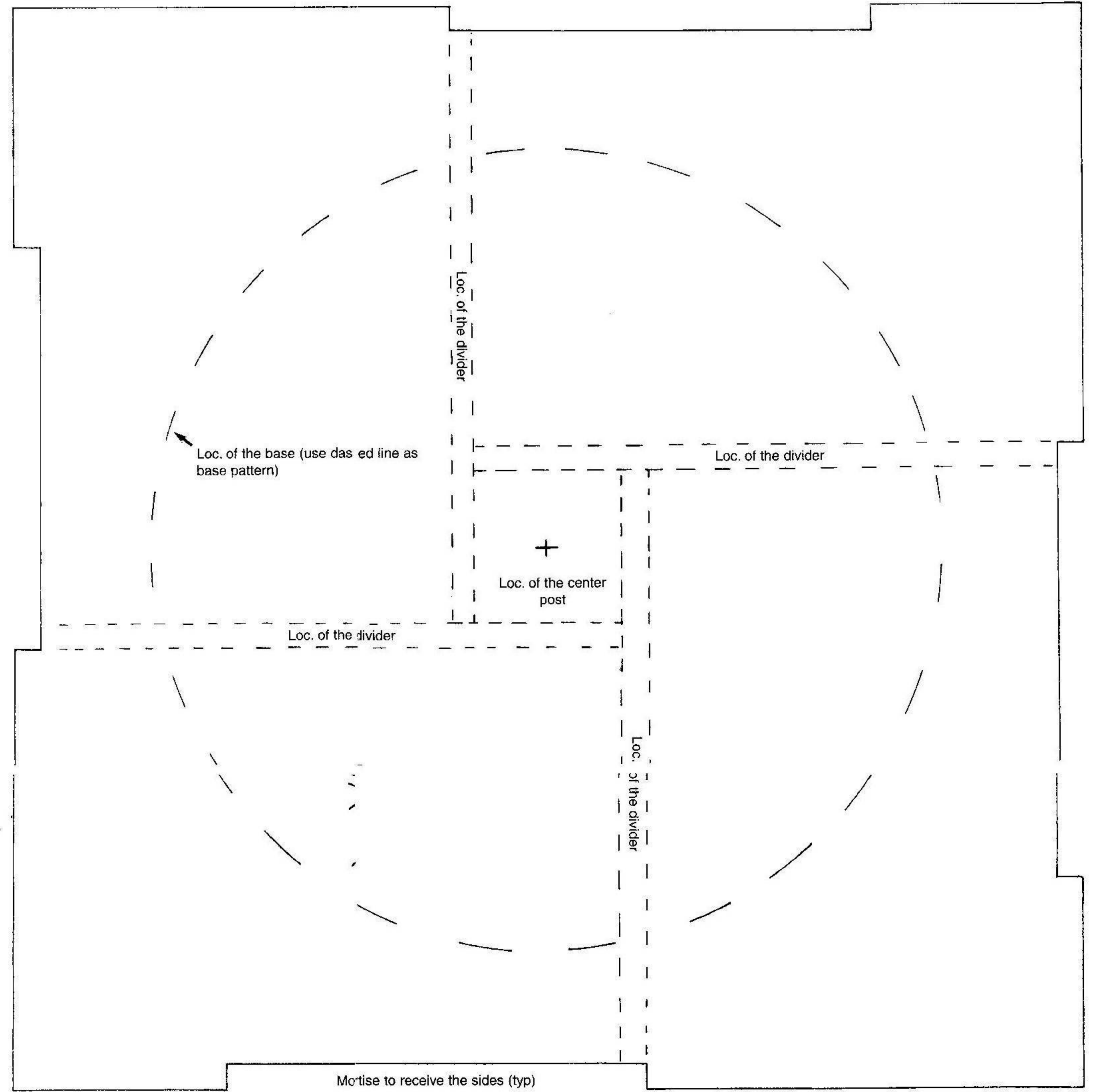
Drill-center locations—drill thru at each location shown to accommodate your specific dowels or pegs.



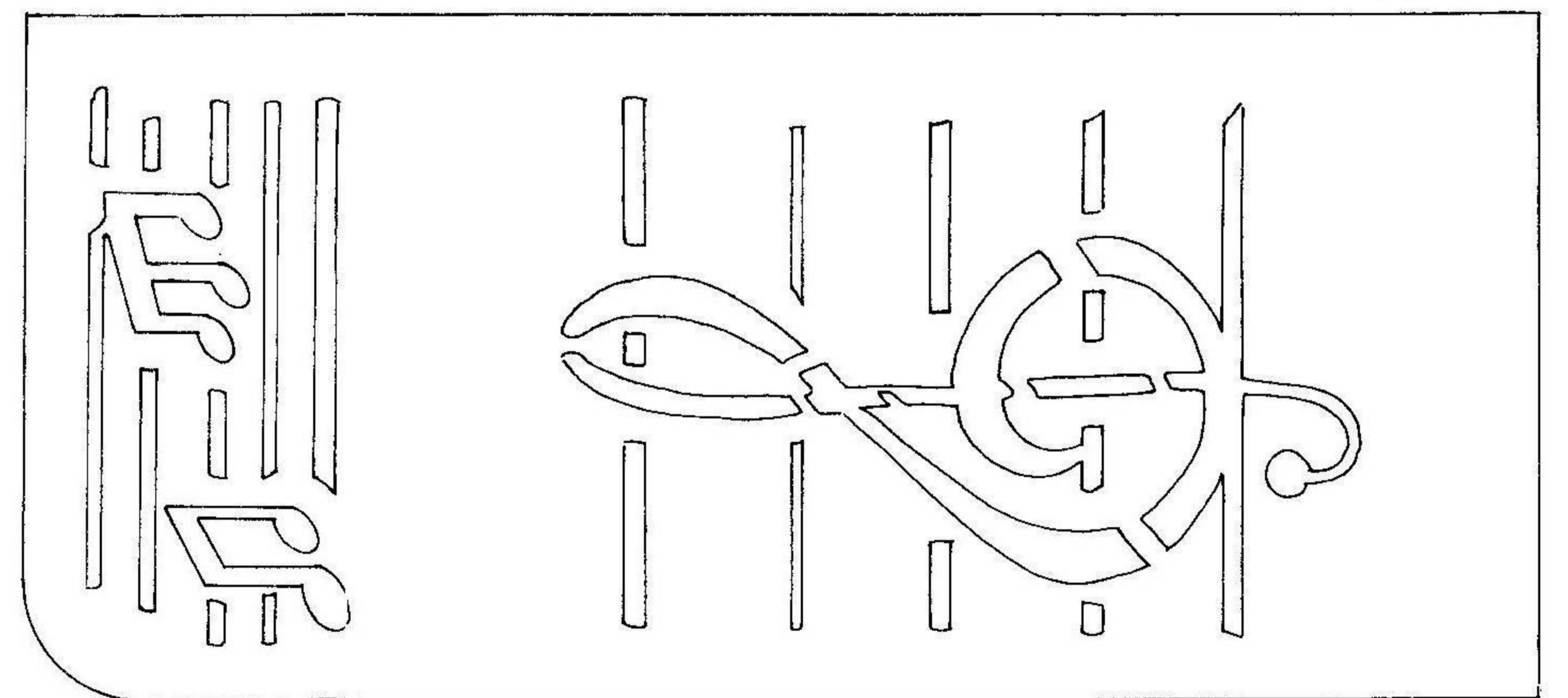
Body (A)—make one from 1-1/2" x 4-1/2" x 17-1/2" stock



Upper/lower plate (B)—make two



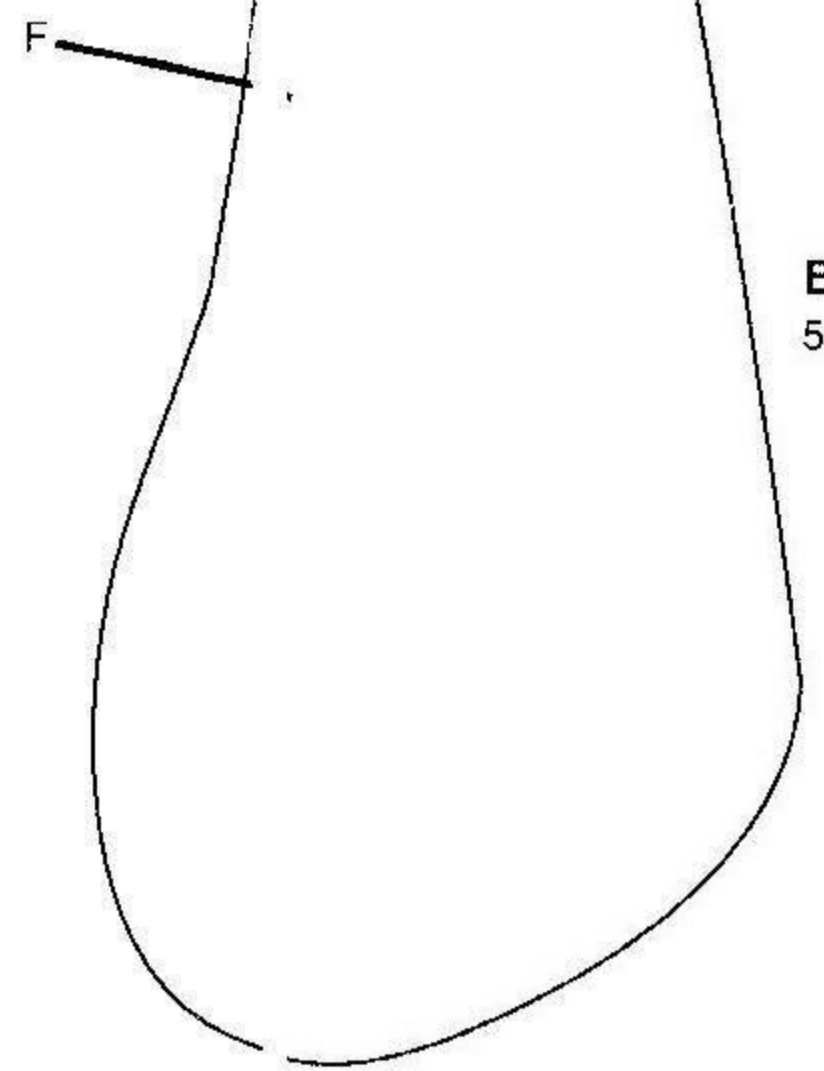
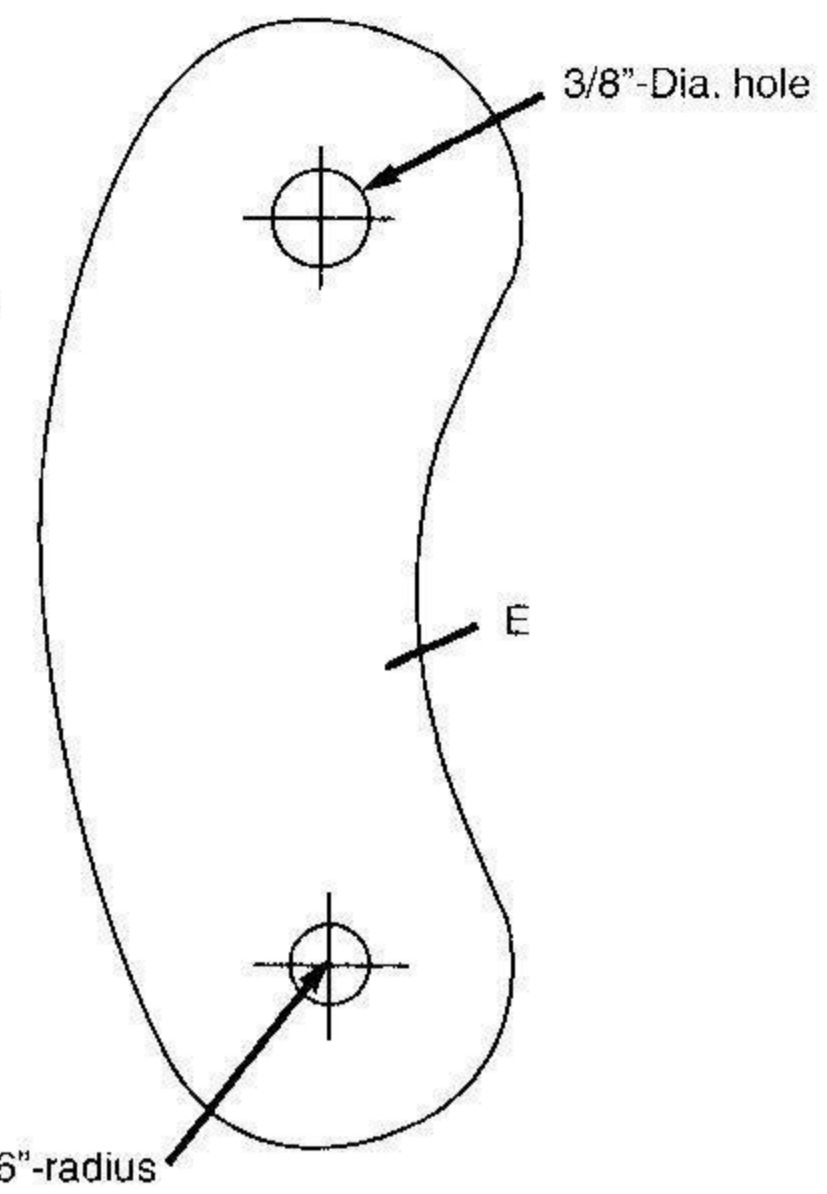
Full Size Patterns  
CD Carousel  
from page 68



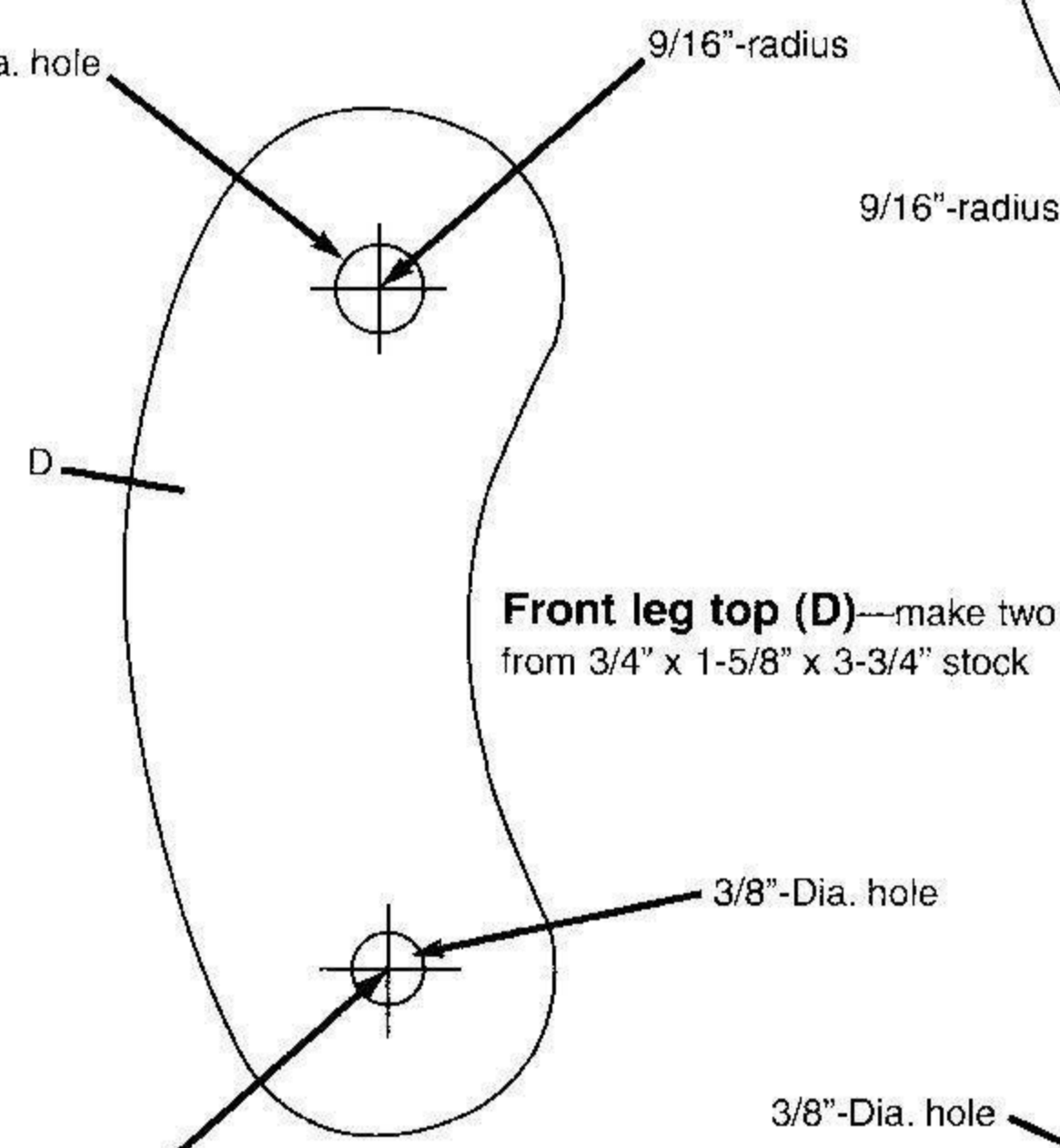
Sides (G)—make four

d5

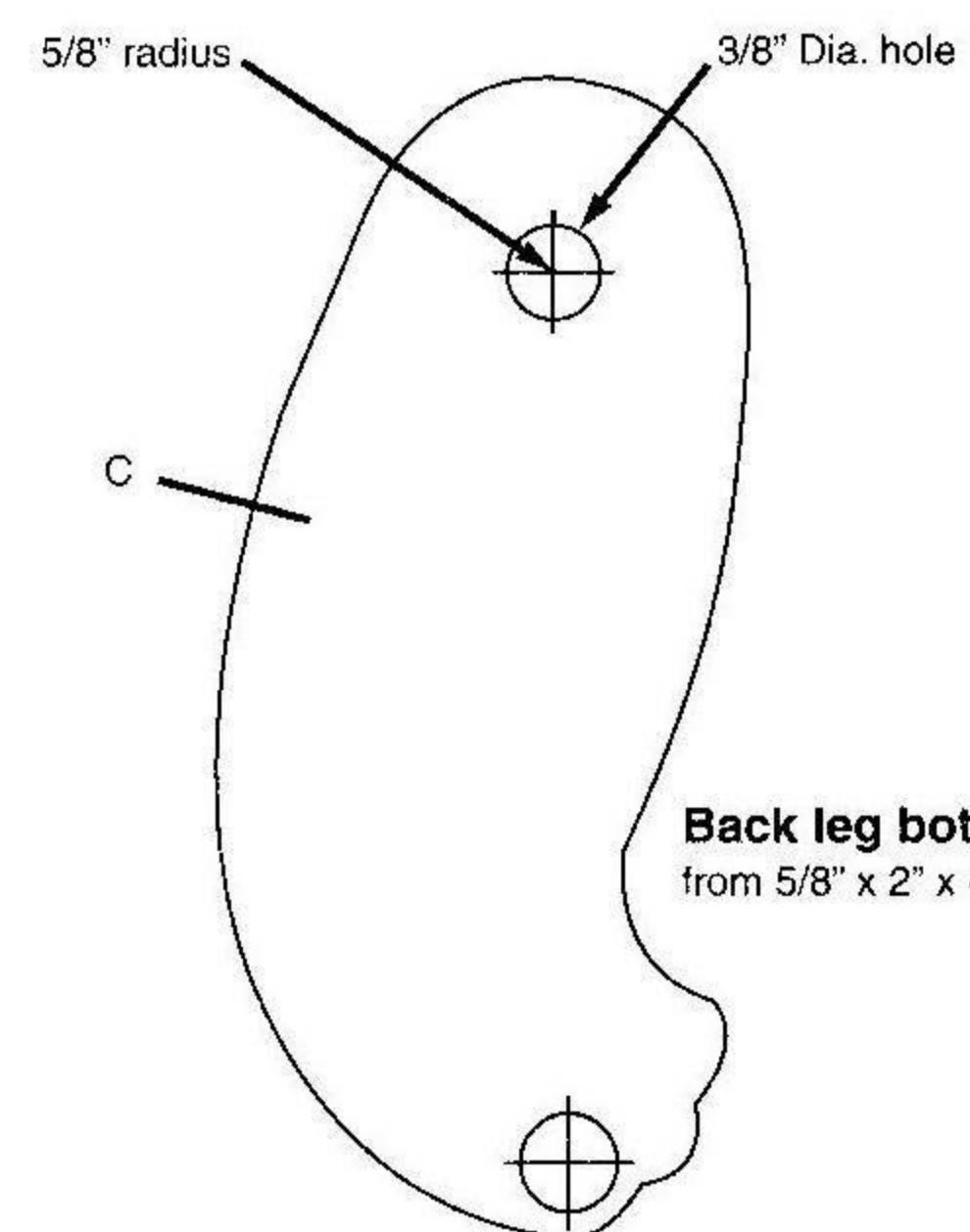
Front leg bottom (E)—make two from 5/8" x 1-9/16" x 4" stock



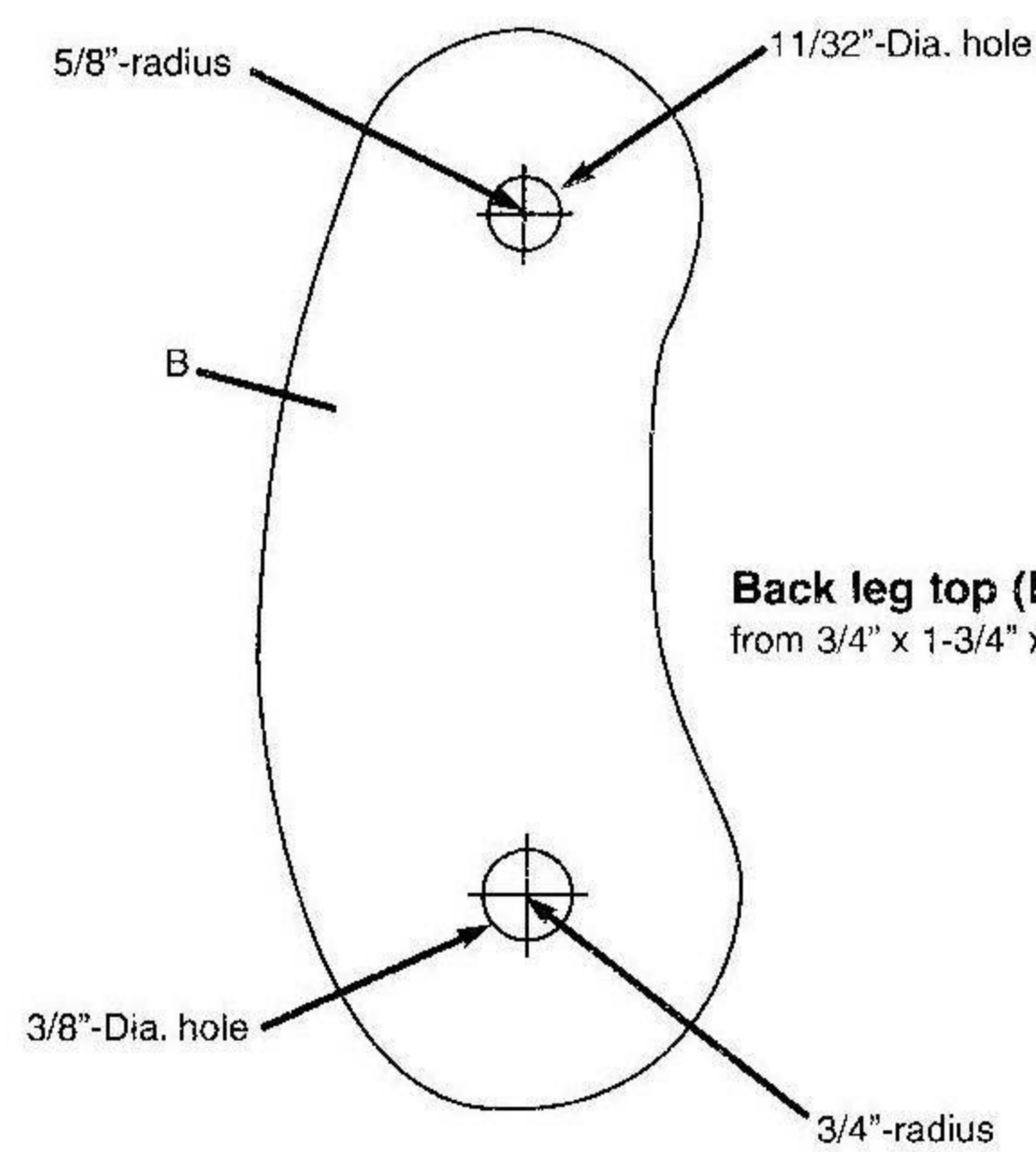
Ear (F)—make two from 5/16" x 2-1/2" x 4-1/2" stock



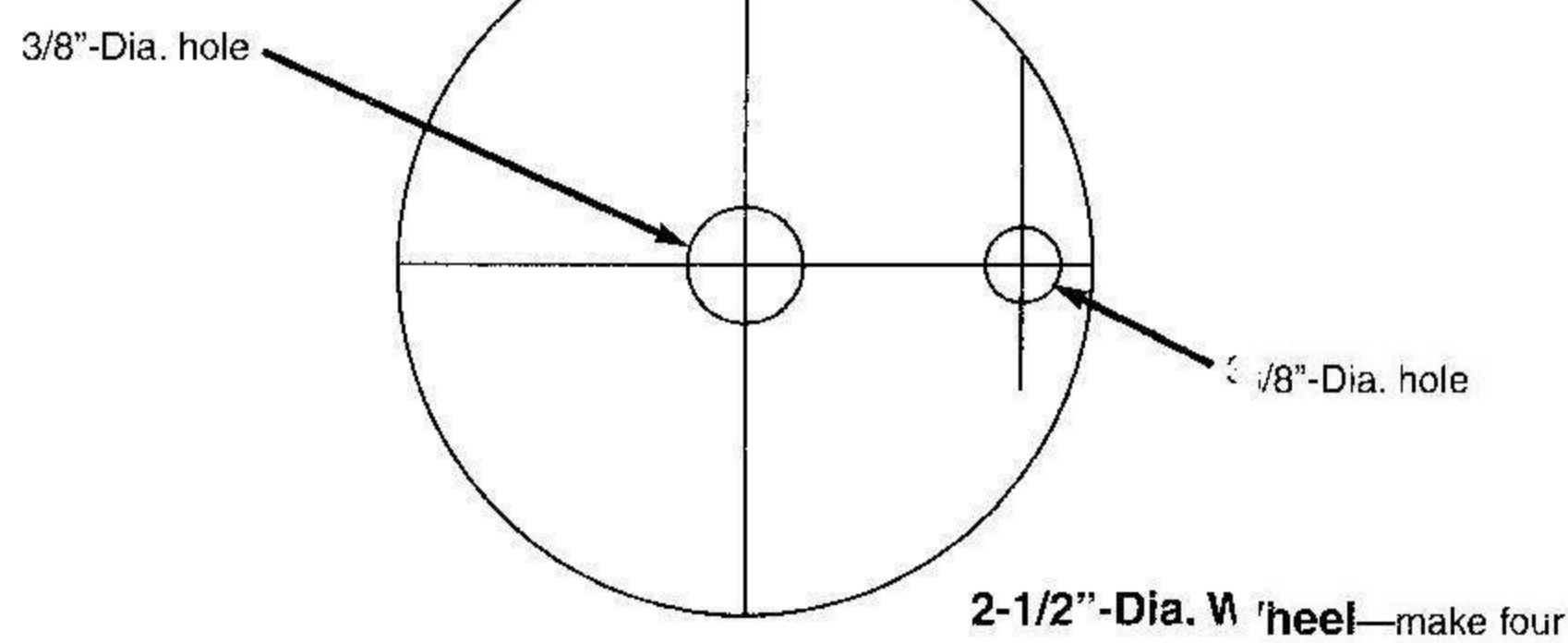
Front leg top (D)—make two from 3/4" x 1-5/8" x 3-3/4" stock



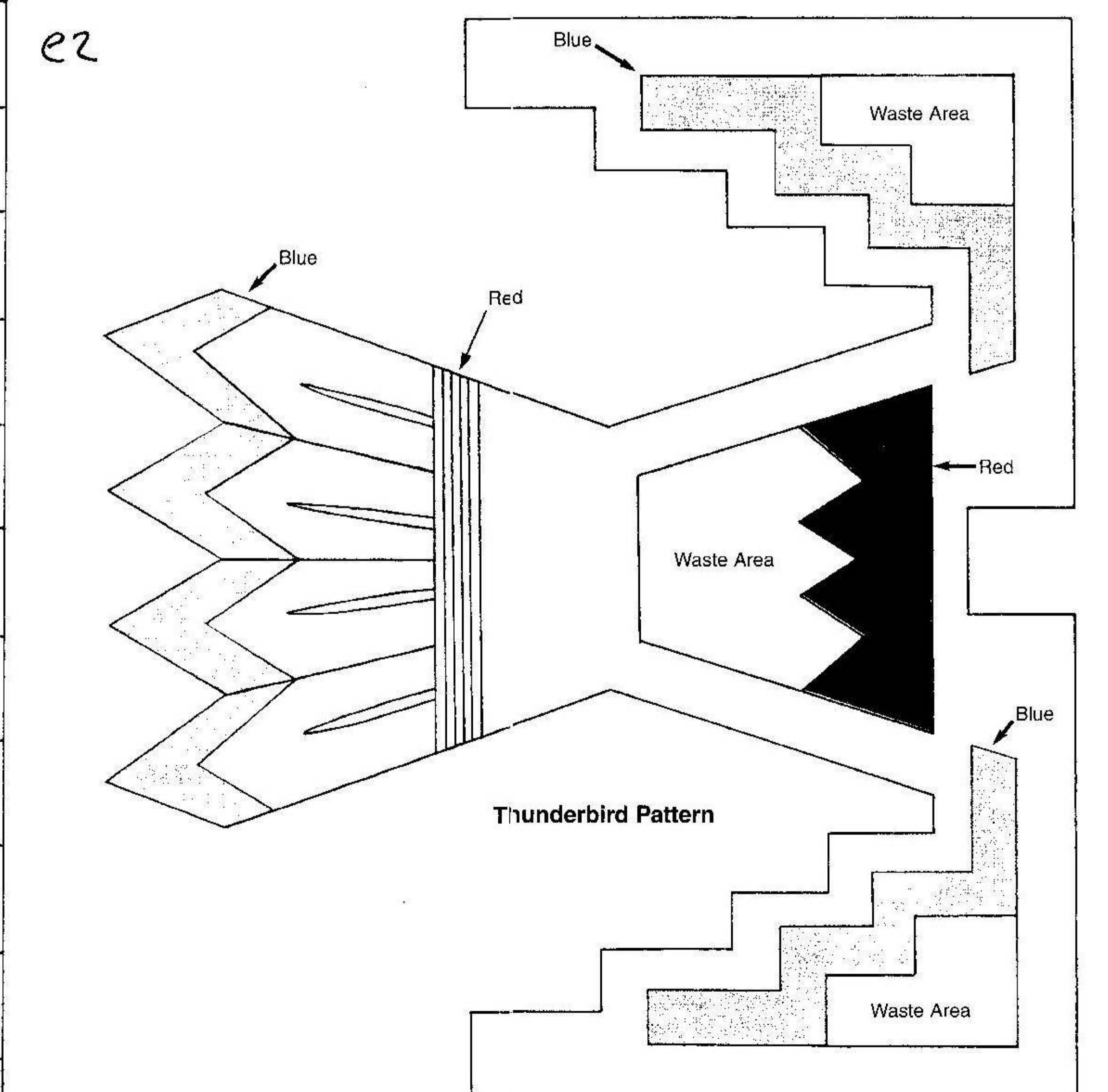
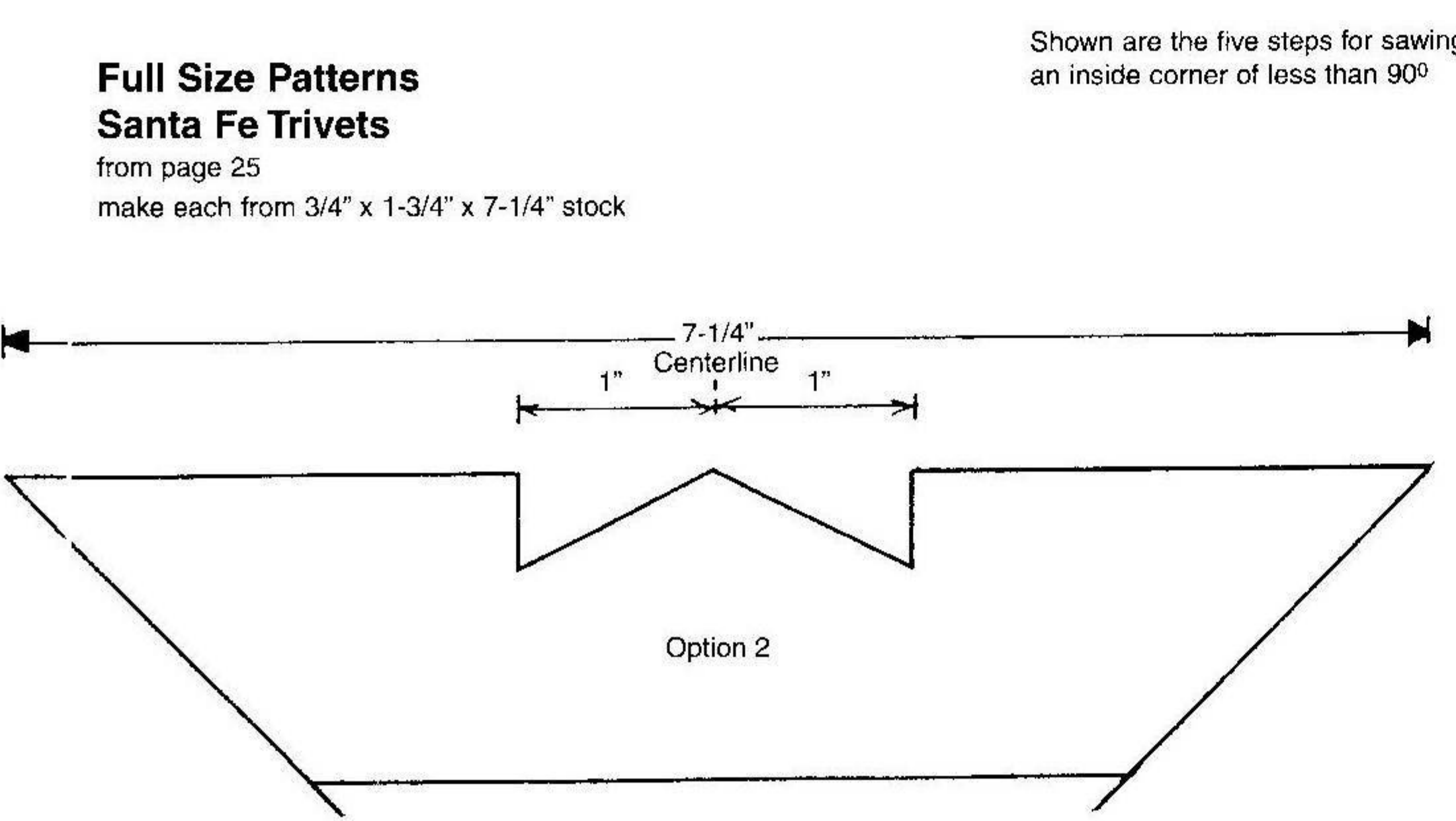
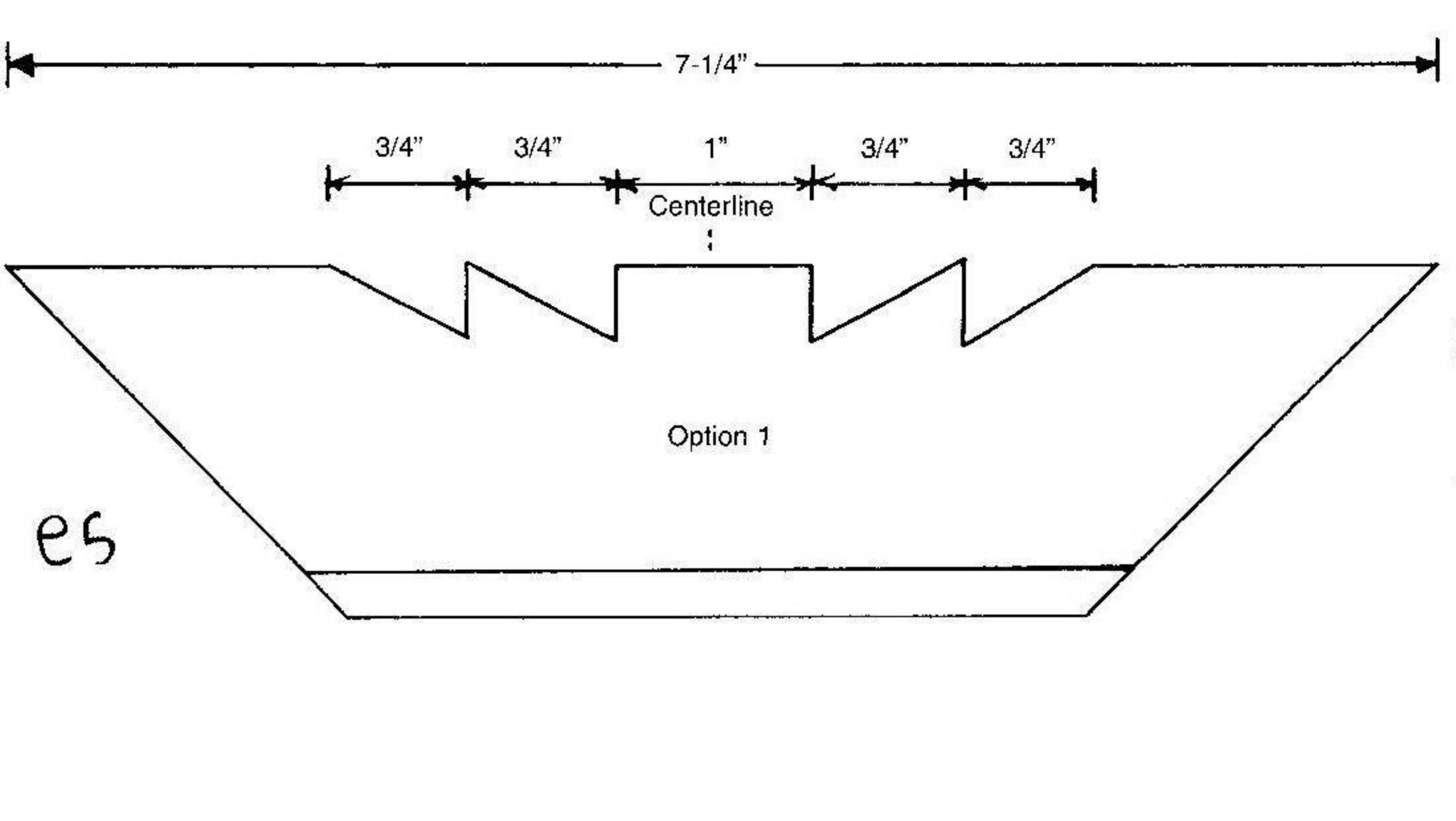
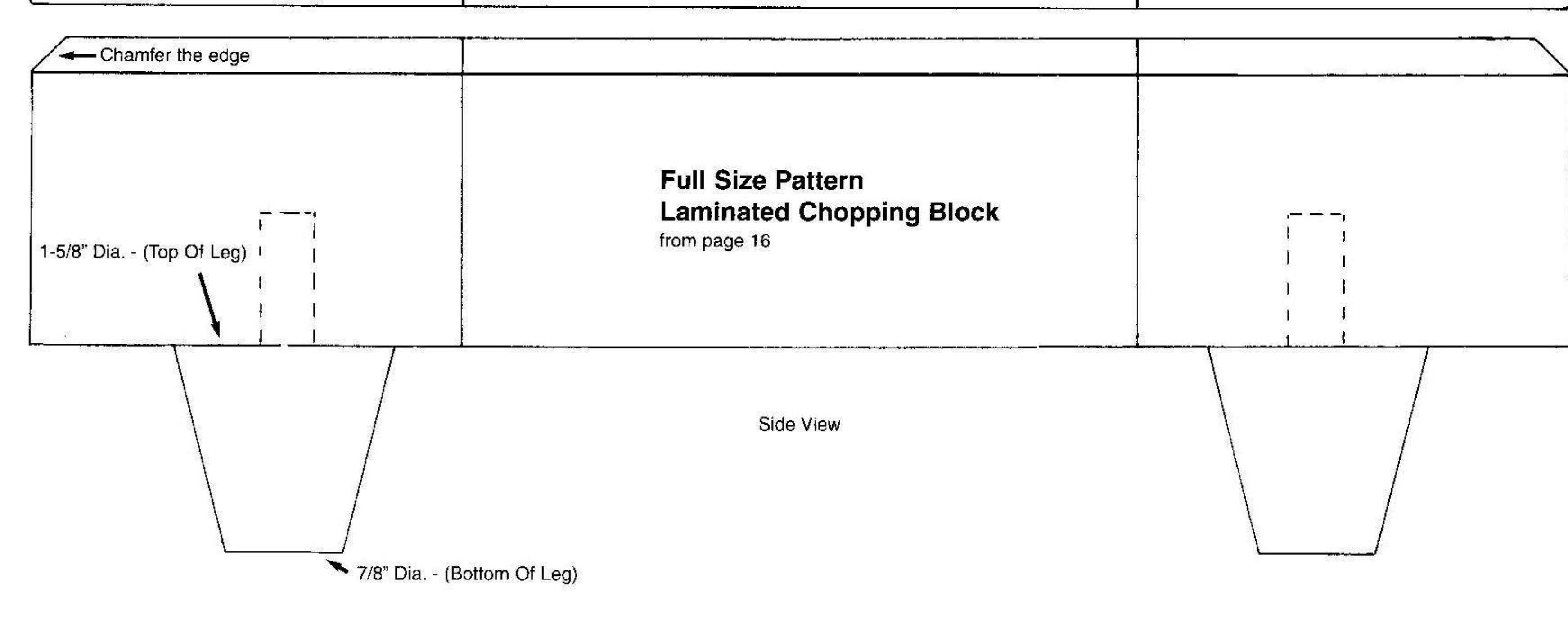
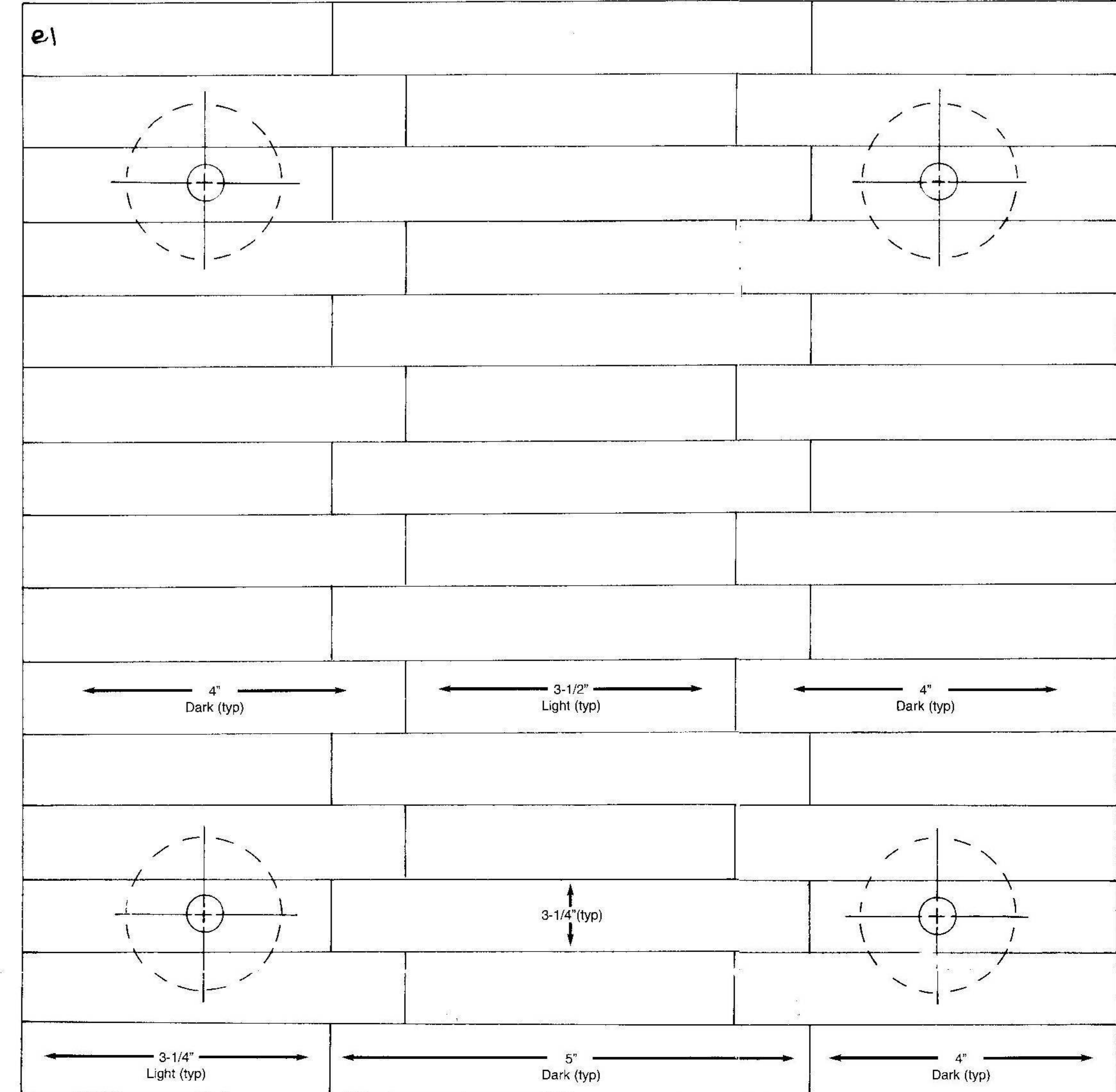
Back leg bottom (C)—make two from 5/8" x 2" x 4" stock



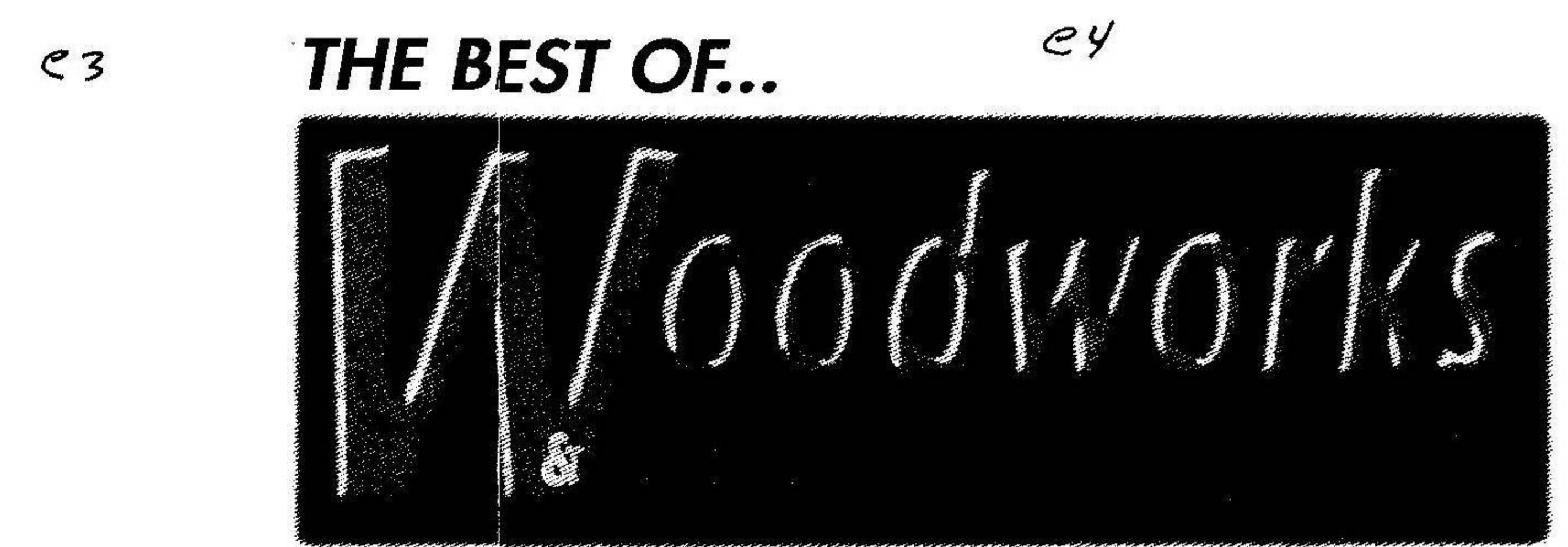
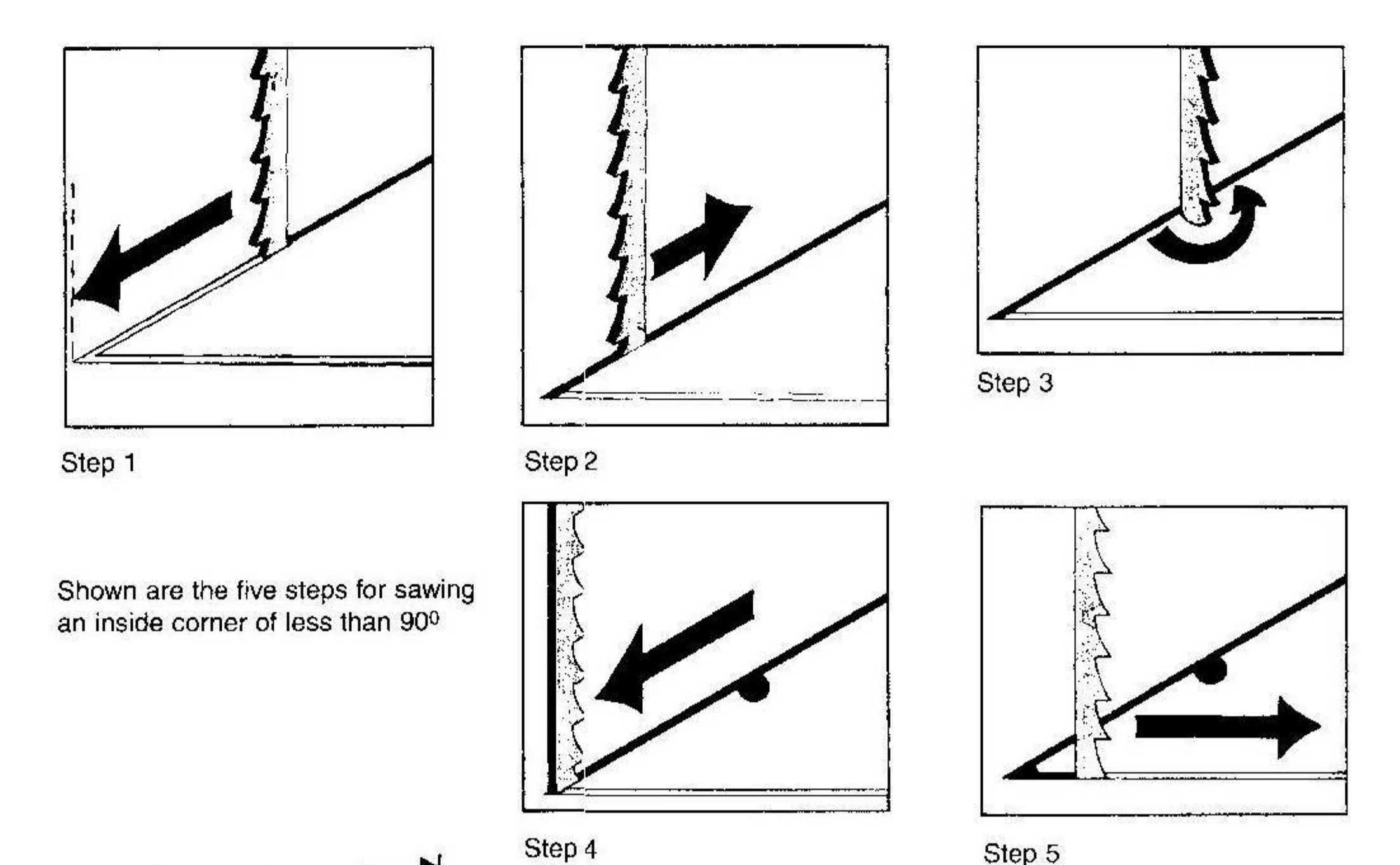
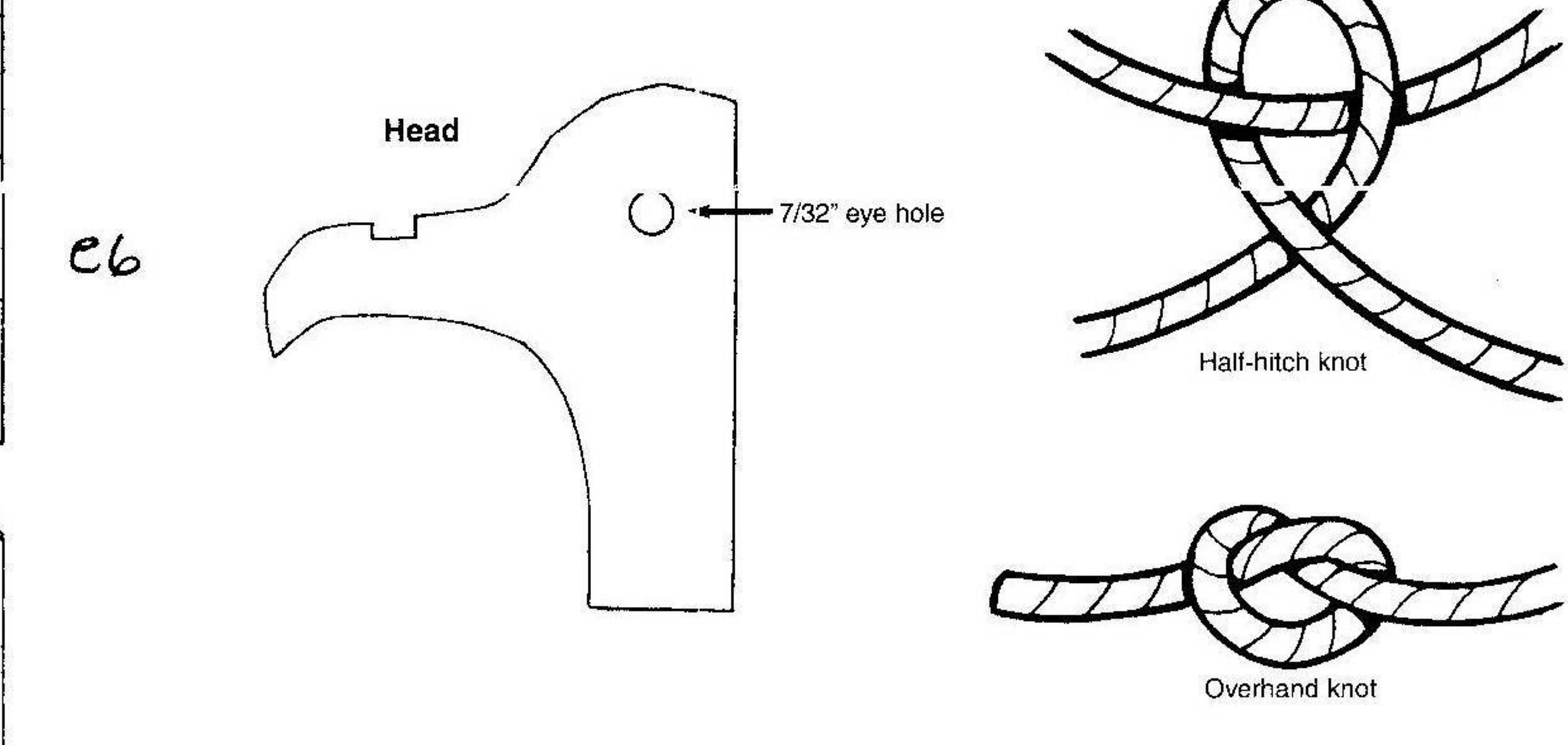
Back leg top (B)—make two from 3/4" x 1-3/4" x 4" stock



2-1/2"-Dia. wheel—make four



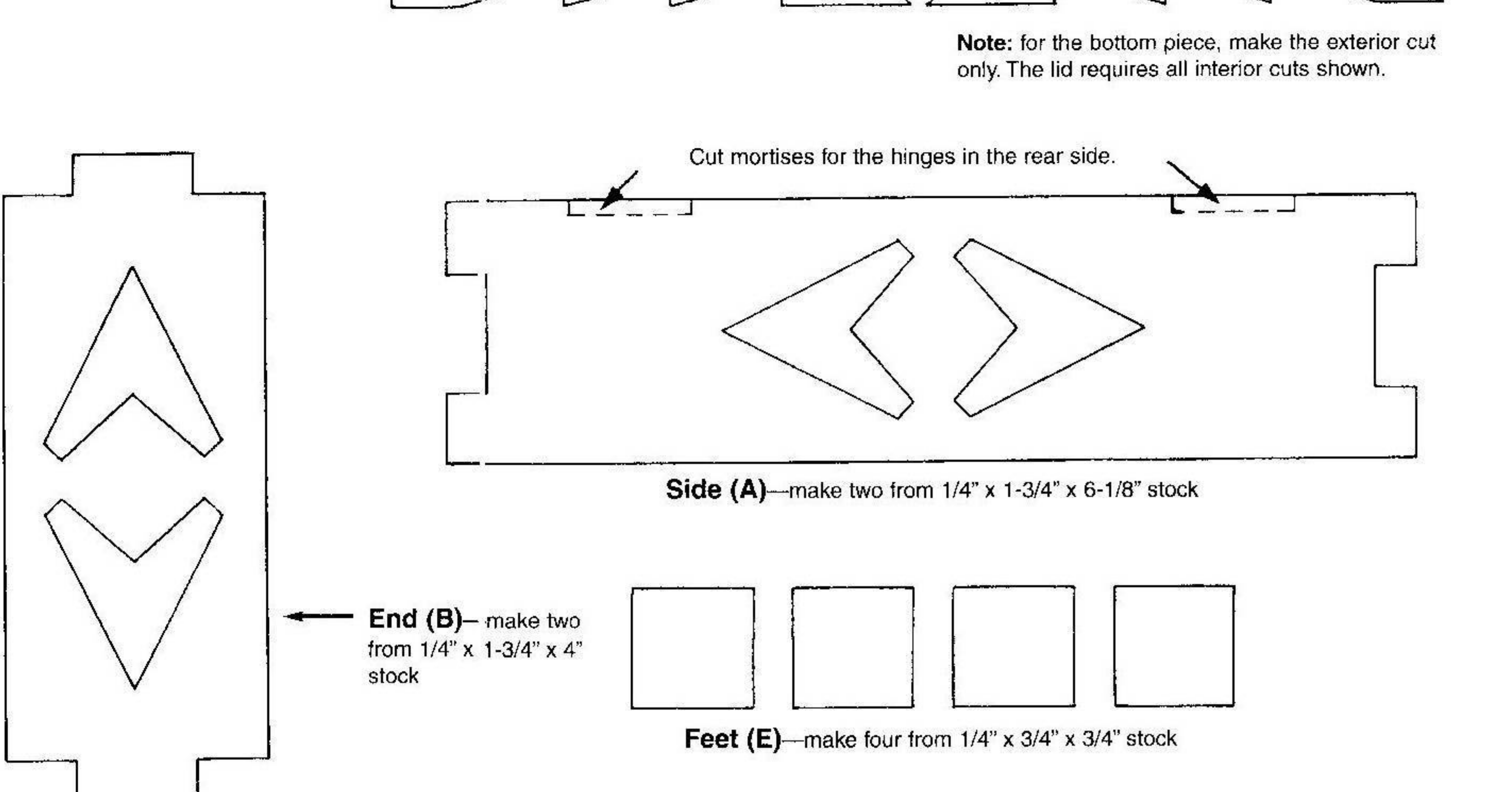
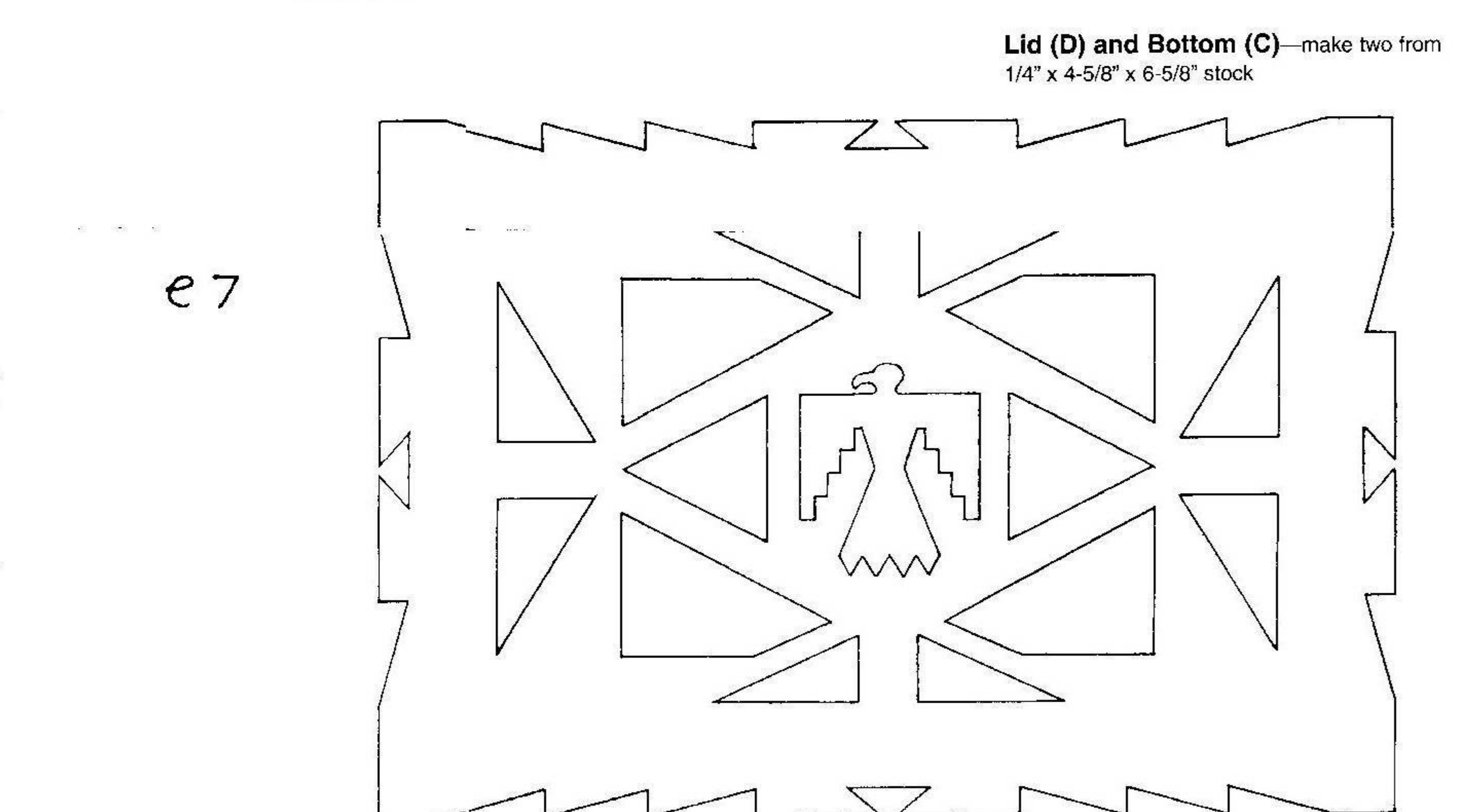
Full Size Patterns  
Thunderbird Dream Catcher  
from page 72  
Additional patterns on reverse side



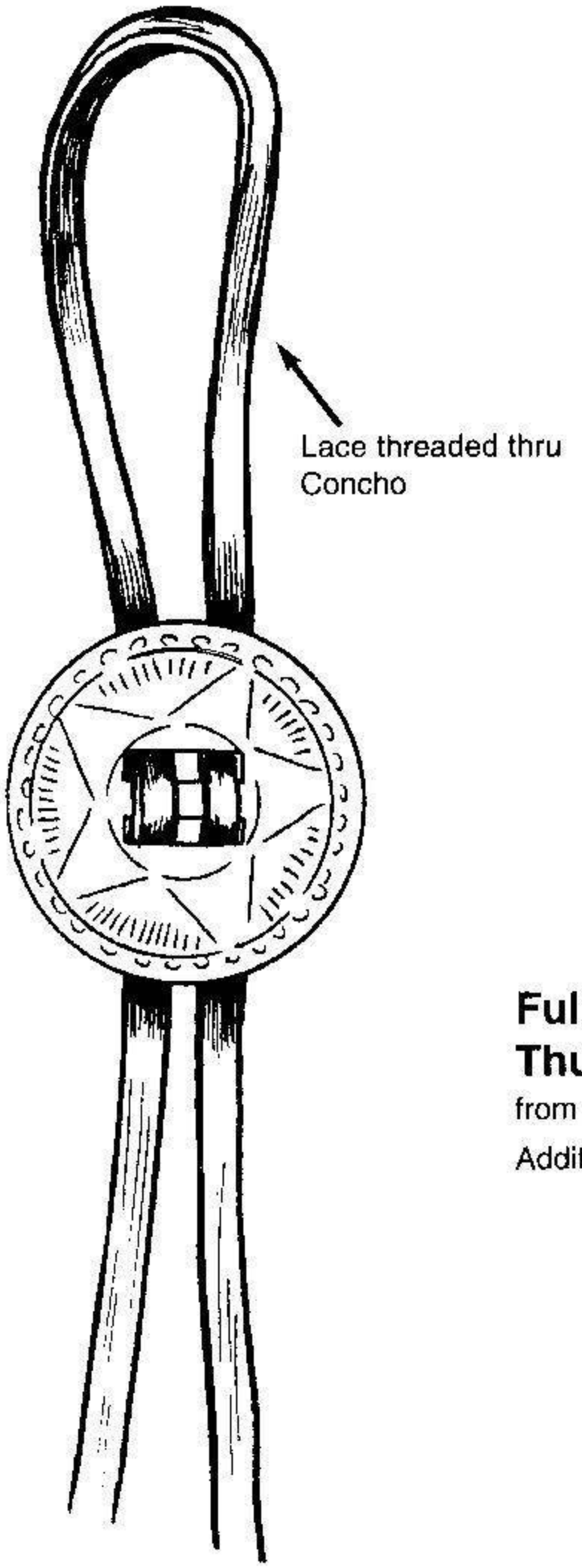
**Full Size Pattern Section No. 3**

Thunderbird Box	Metric Conversions:
Santa Fe Trivets	1 inch = 25.4mm = 2.54 cm = 0.0254m
Laminated Chopping Block	<b>Common Measurements:</b>
Thunderbird Dreamcatcher	1/16" = 1.59mm    1" = 2.54cm    9" = 22.86cm
Chip Carved Box	1/8" = 3.18mm    2" = 5.08cm    10" = 25.40cm
Ocean Plaque	1/4" = 6.35mm    3" = 7.62cm    11" = 27.94cm
Routed Boxes	3/8" = 9.53mm    4" = 10.16cm    12" = 30.48cm
Oak Leaf Cluster	1/2" = 1.27cm    5" = 12.70cm    24" = 60.96cm
	5/8" = 1.59cm    6" = 15.24cm    36" = 91.44cm
	3/4" = 1.91cm    7" = 17.78cm    45" = 1.14m
	7/8" = 2.22cm    8" = 20.32cm    60" = 1.52m

Full Size Patterns  
Thunderbird Box  
from page 6

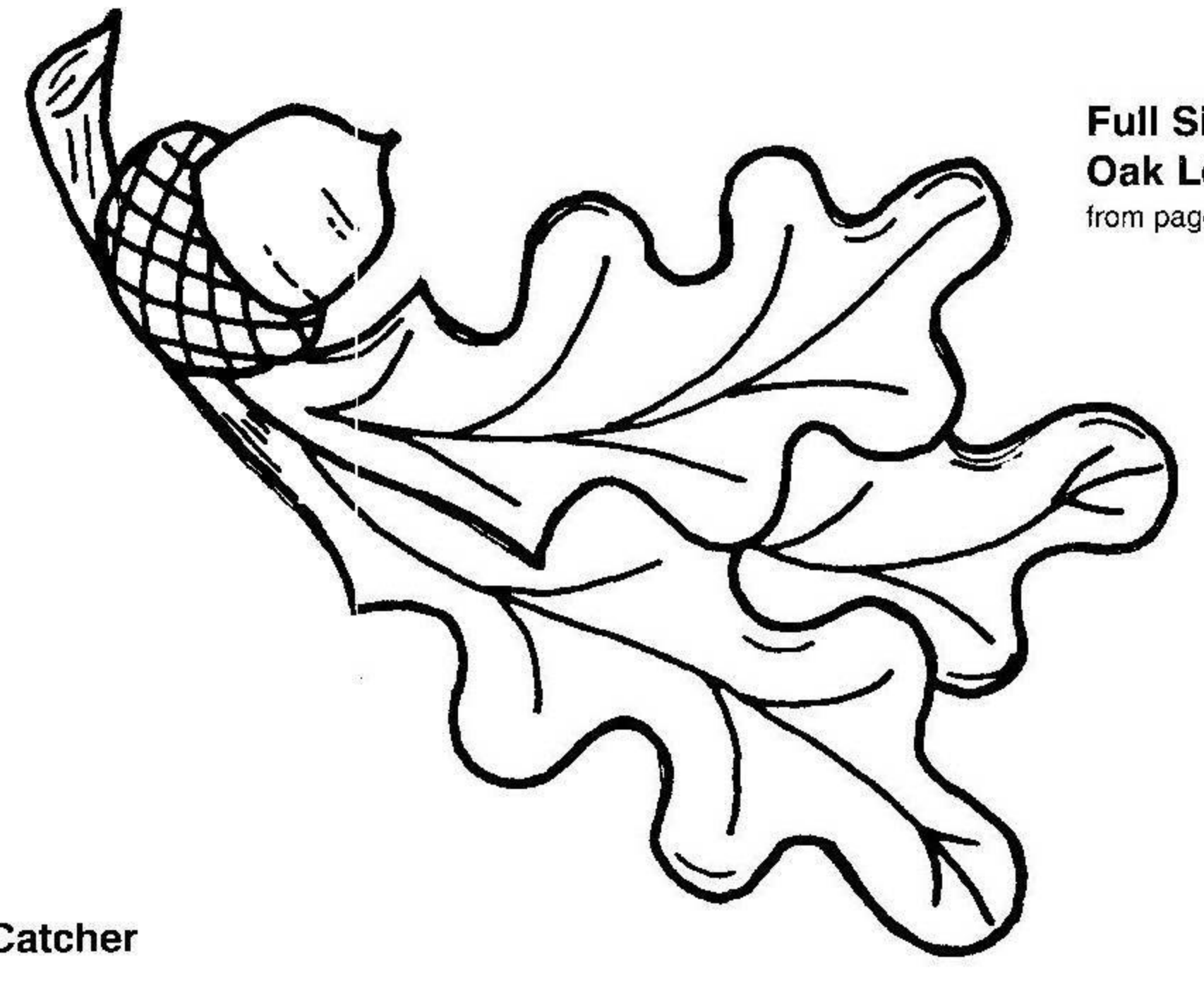


f1



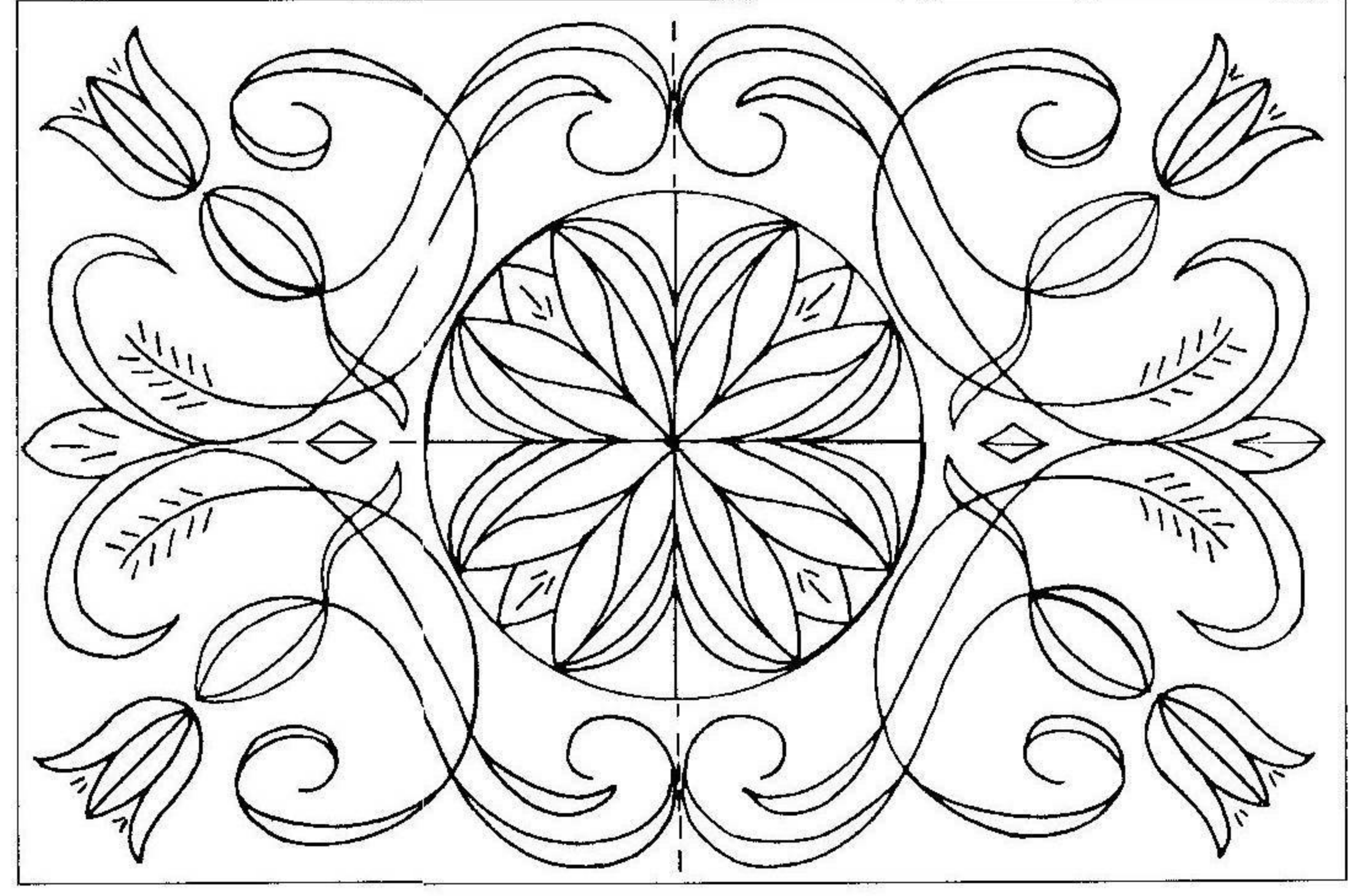
**Full Size Patterns  
Thunderbird Dream Catcher**  
from page 72  
Additional patterns on reverse side

f2



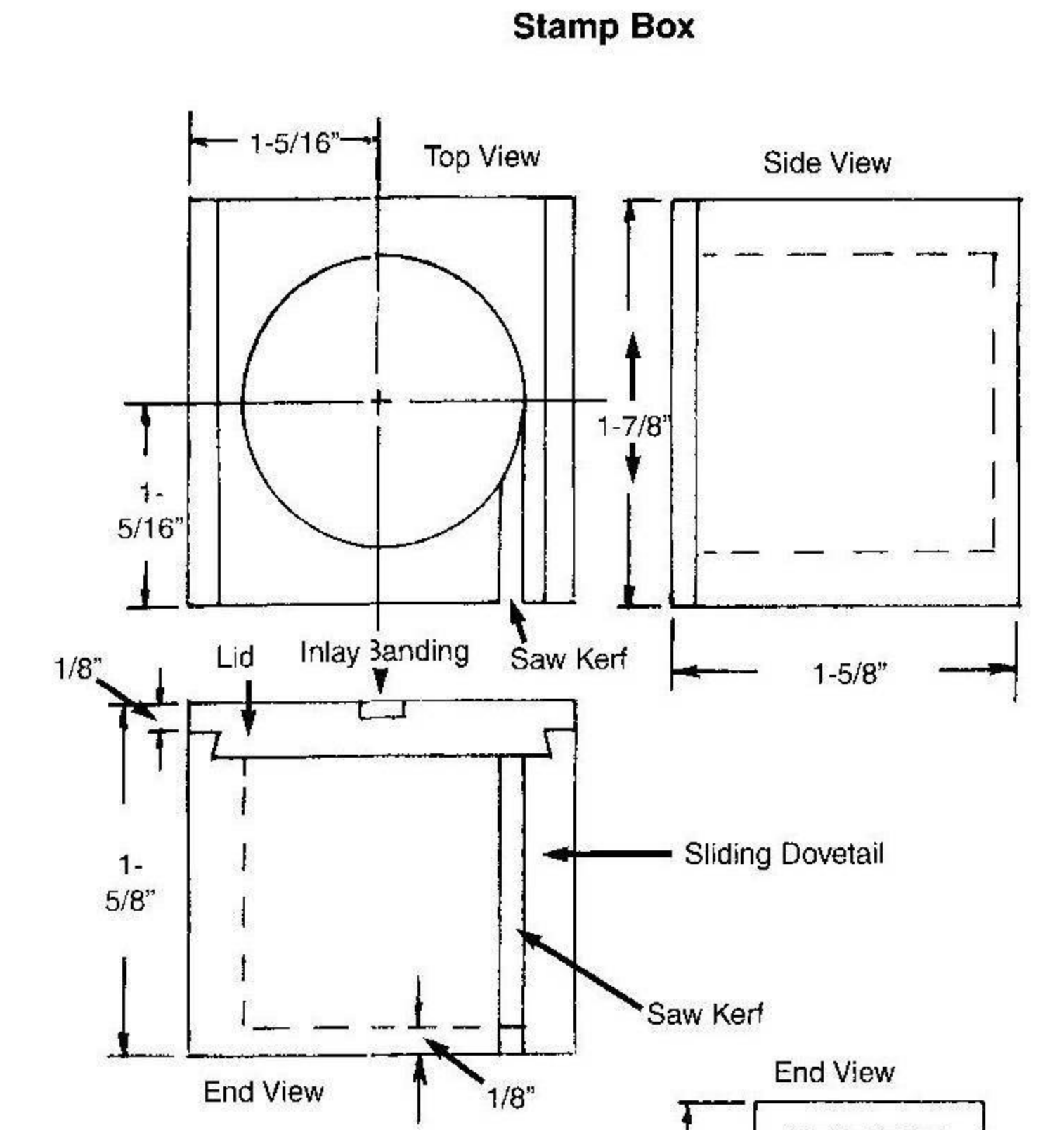
**Full Size Pattern  
Oak Leaf Cluster**  
from page 51

f3



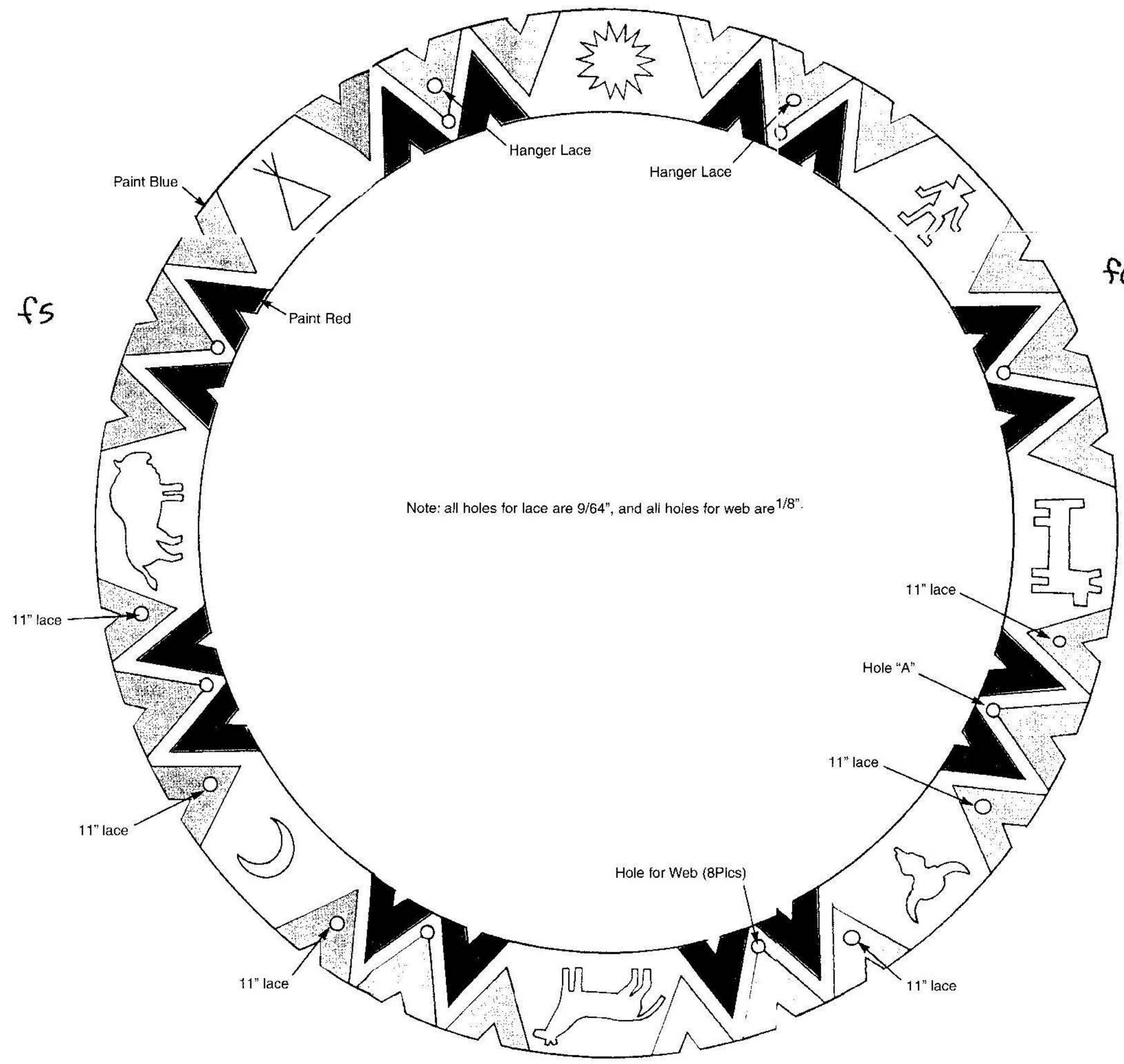
**Full Size Pattern  
Chip Carved Box Lid**  
from page 44

f4



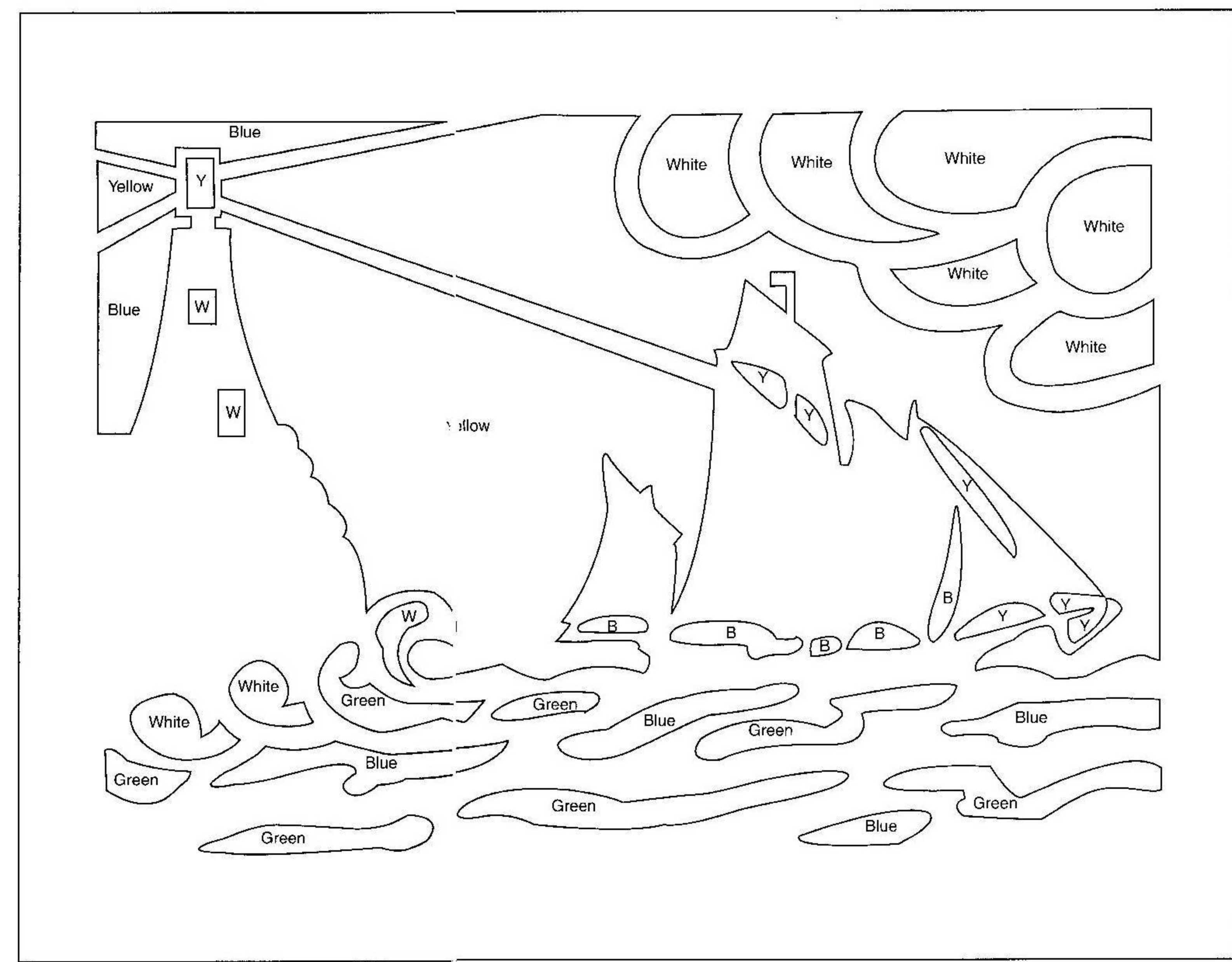
**Full Size Patterns  
Routed Boxes**  
from page 38

**Dream Catcher Pattern**



f5

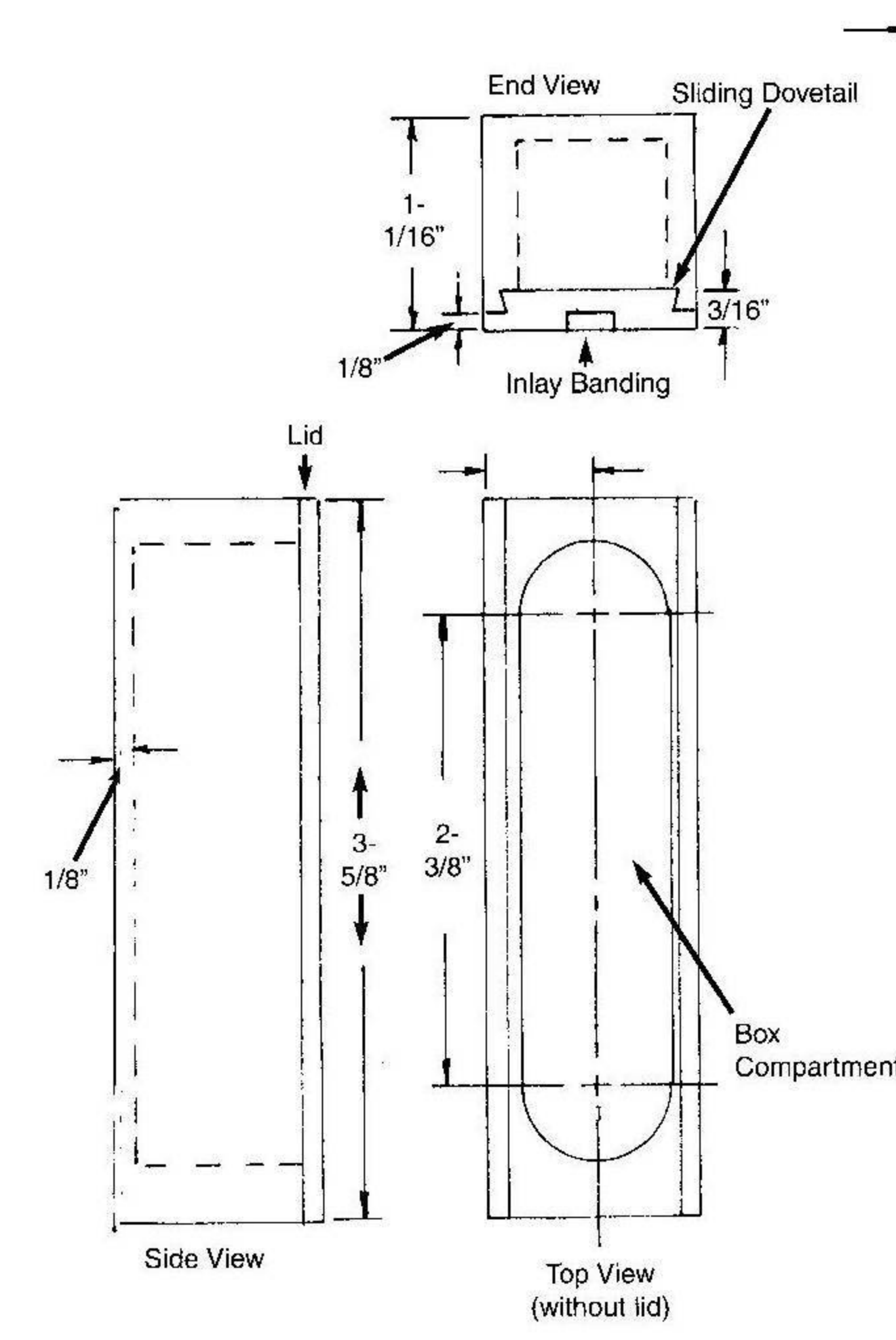
f6



**Full Size Patterns  
Ocean Plaque**  
from page 60

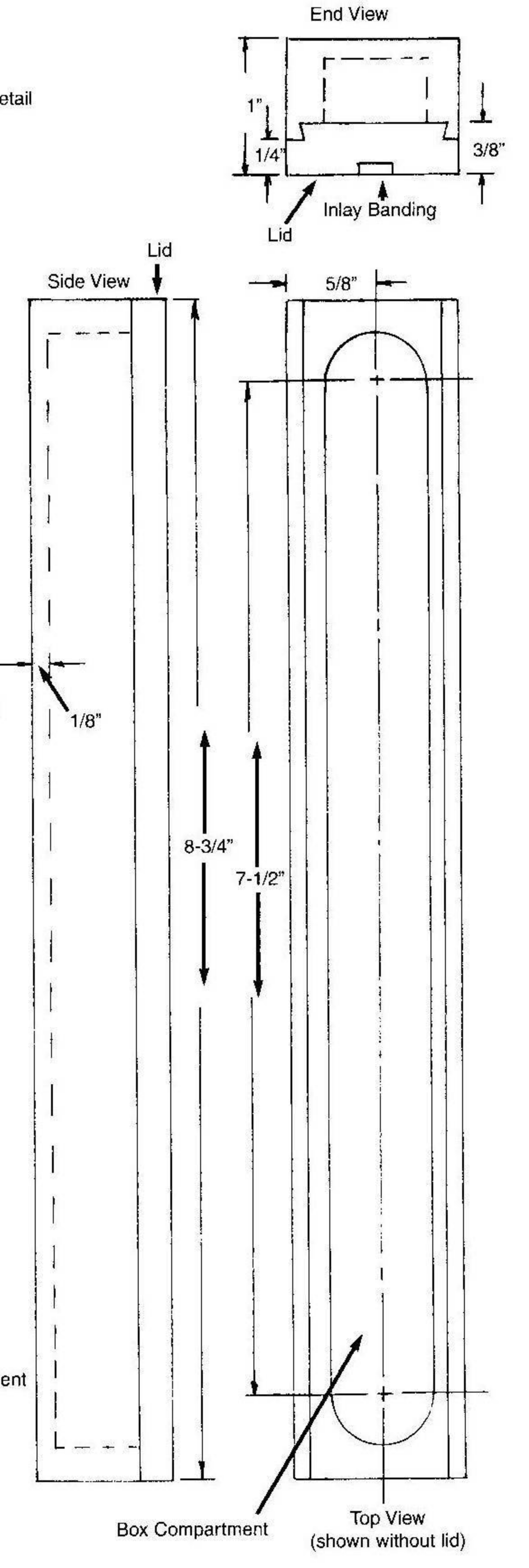
f7

**Tiny Treasure Box**

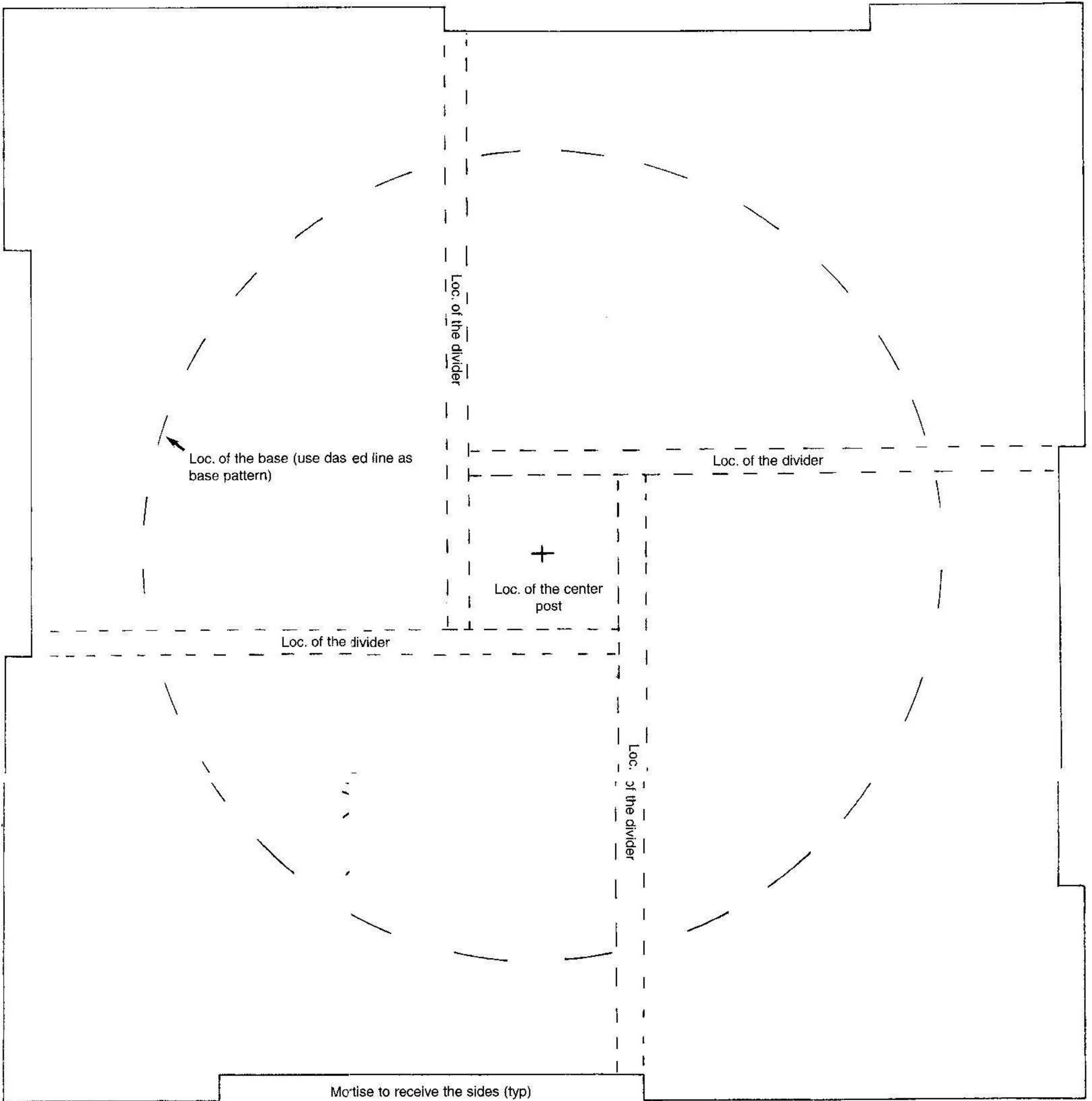


**Paper Clip Box**

f8

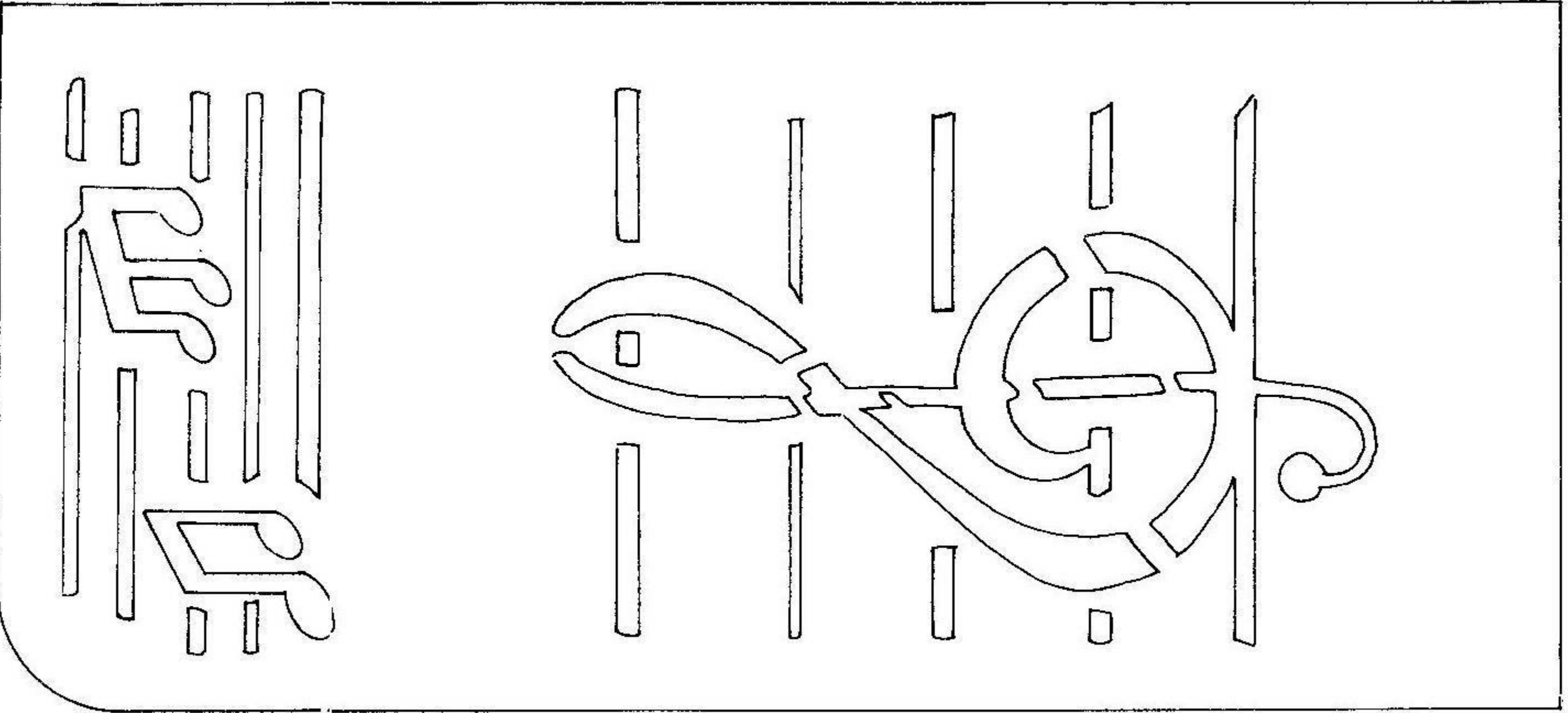


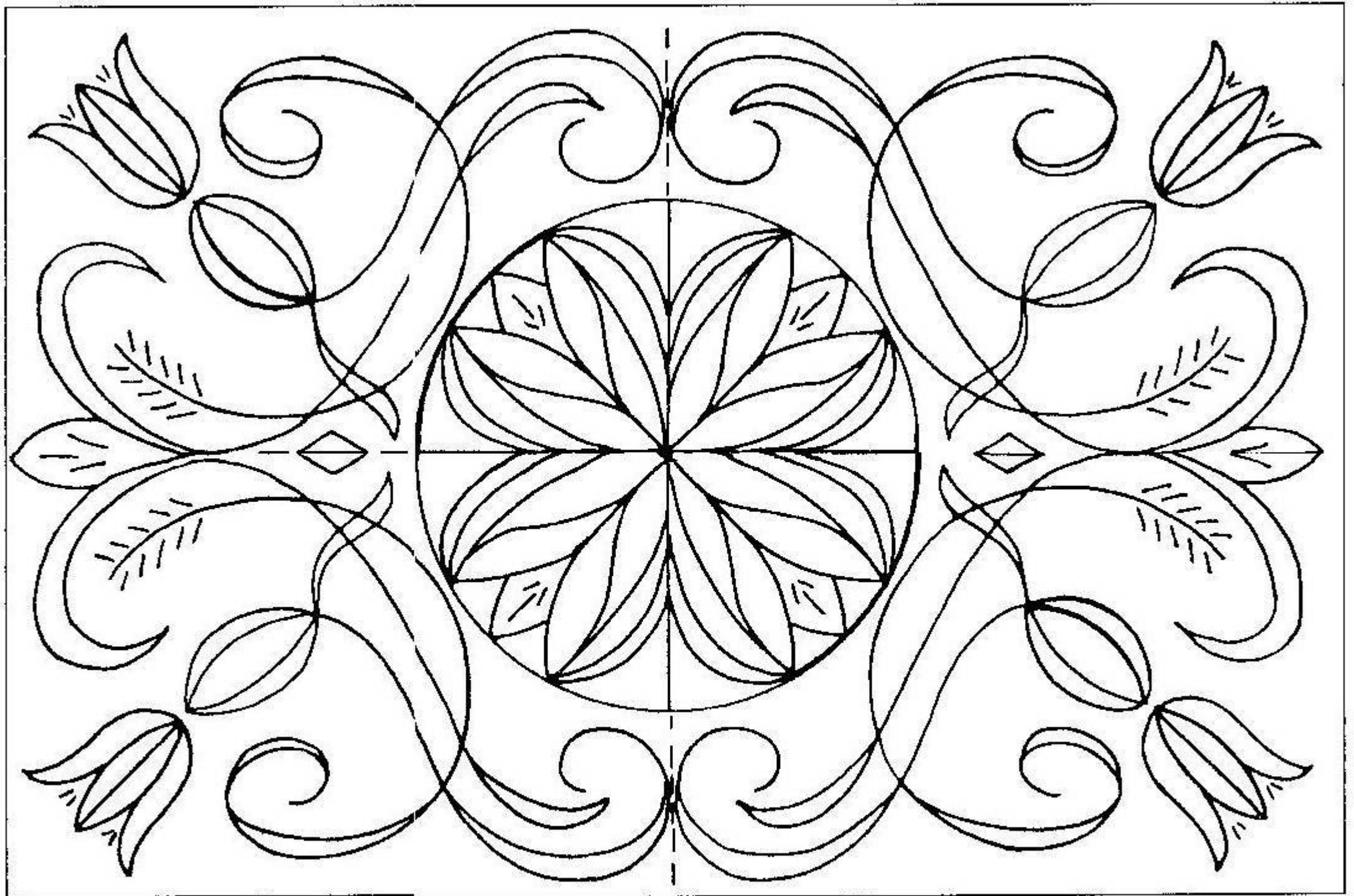
**Pencil Box**



**Full Size Patterns**  
**CD Carousel**

from page 68

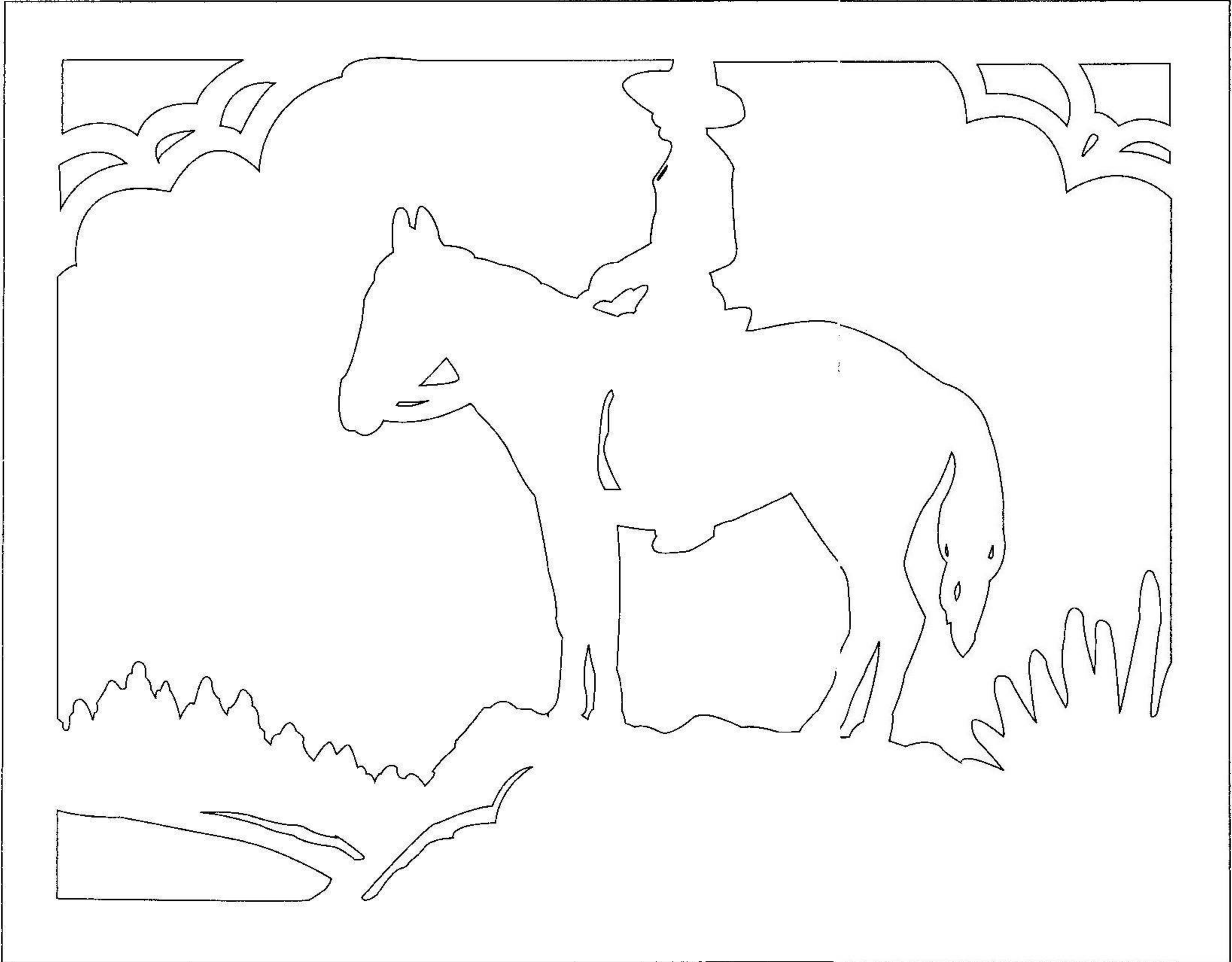


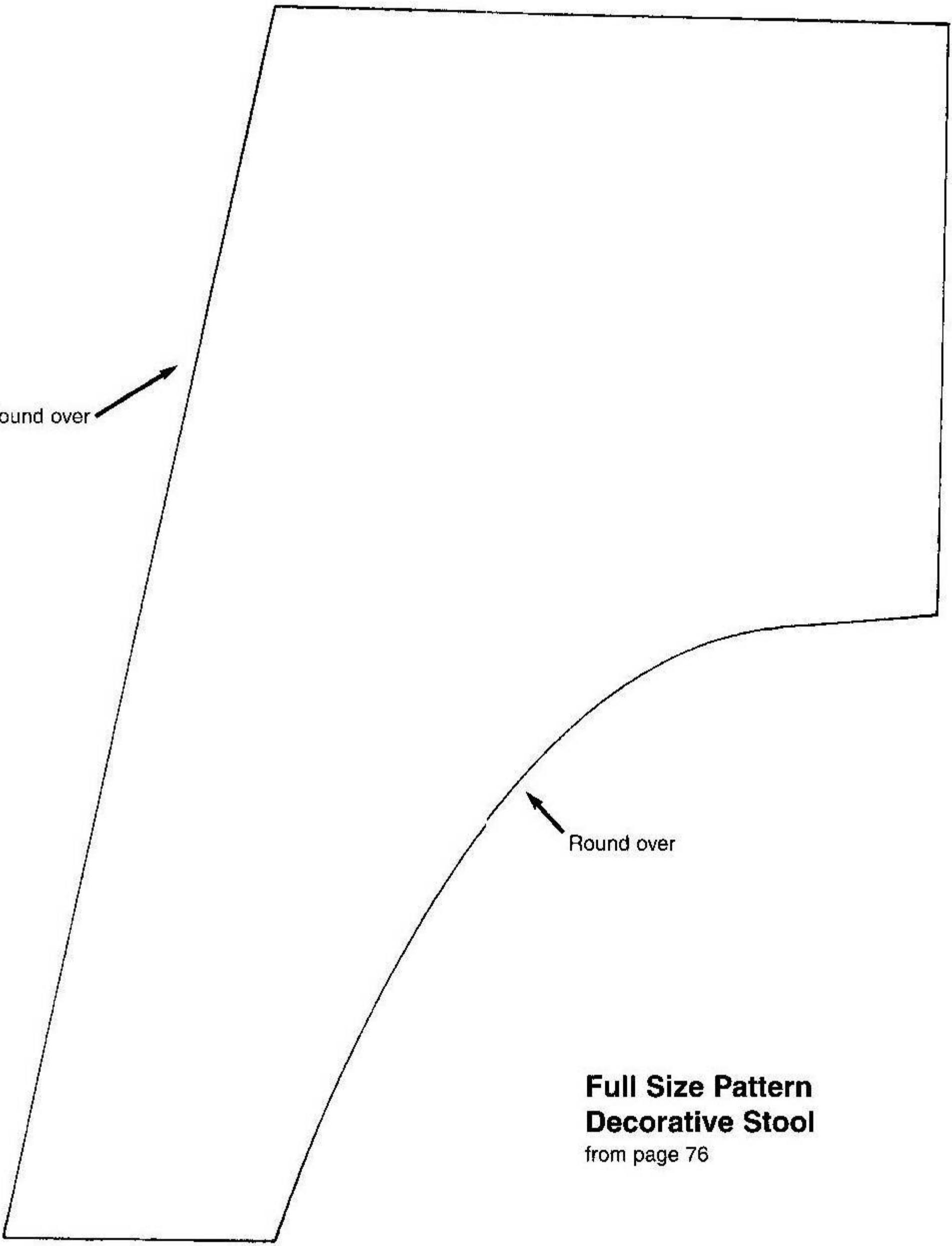


**Full Size Pattern**  
**Chip Carved Box Lid**  
from page 44

**Full Size Pattern**  
**Cowboy Silhouette**

from page 20





**Leg**—make four

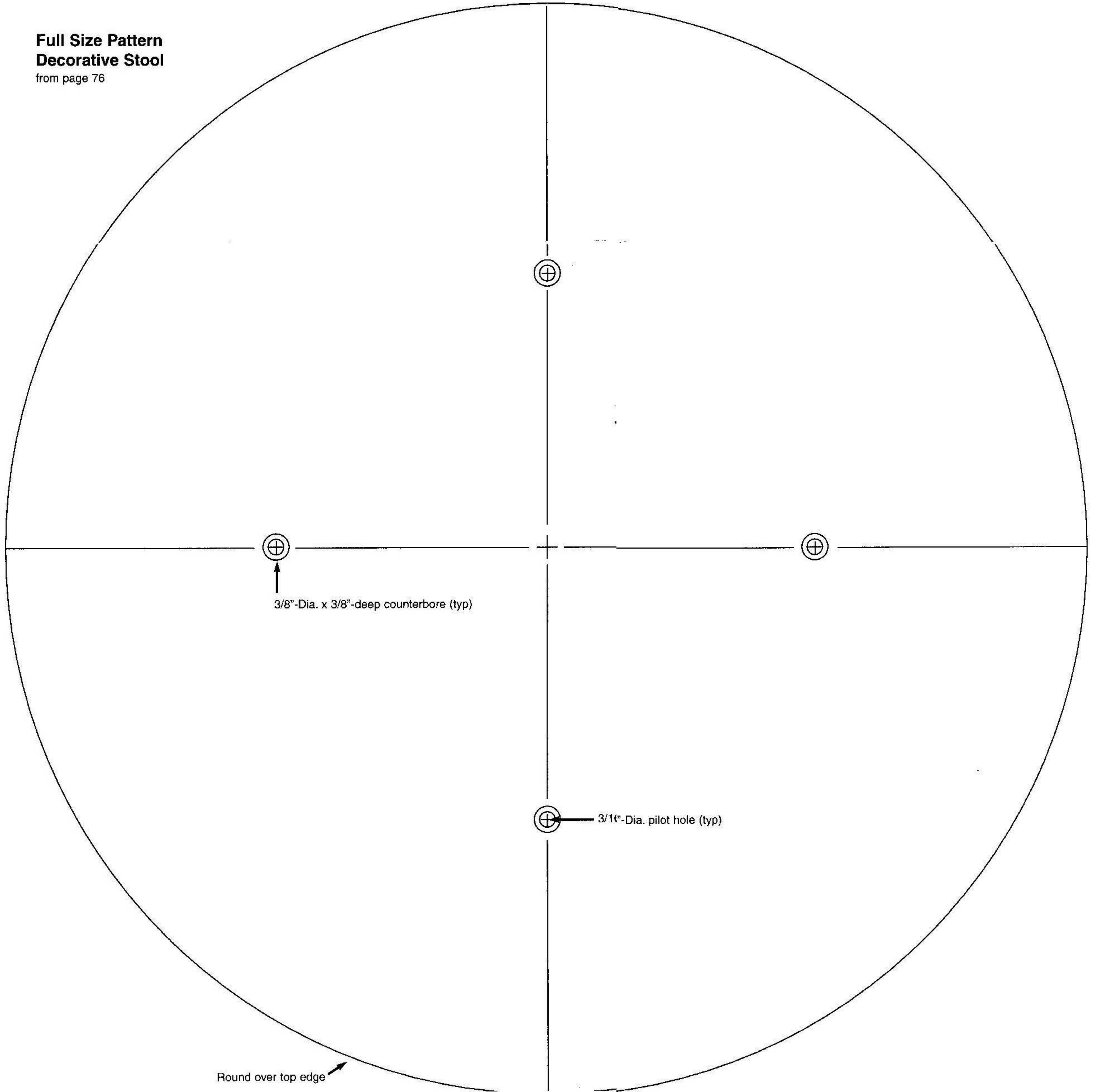
Round over

Round over

**Full Size Pattern  
Decorative Stool**  
from page 76

Top—make one  
13"-Dia.

**Full Size Pattern  
Decorative Stool**  
from page 76



3/8"-Dia. x 3/8"-deep counterbore (typ)

3/16"-Dia. pilot hole (typ)

Round over top edge

**Body (A)**—make one from  
1-1/2" x 4-1/2" x 17-1/2" stock

Location of Eye

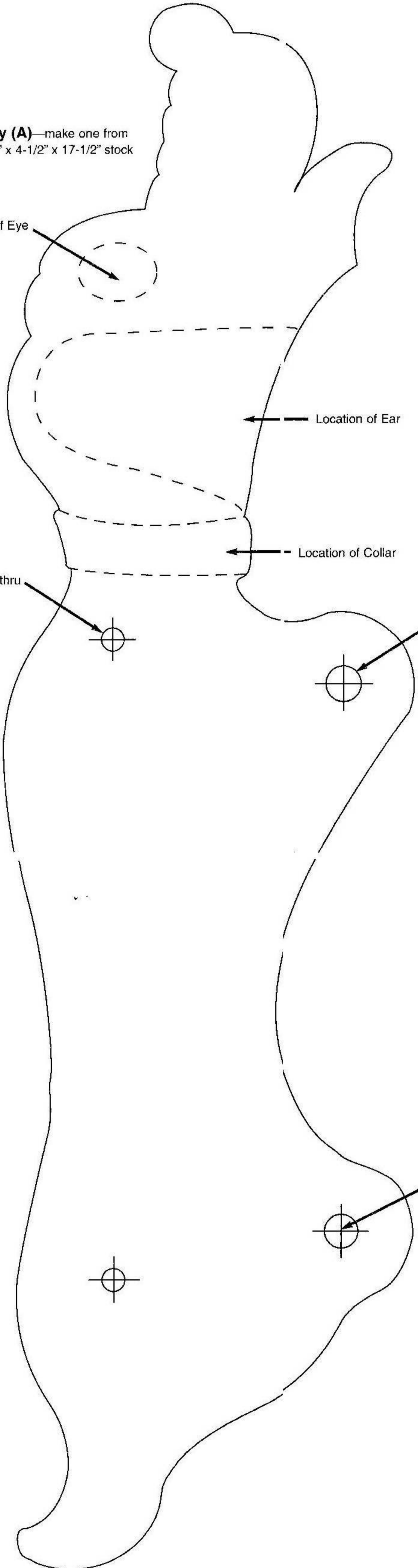
Location of Ear

Location of Collar

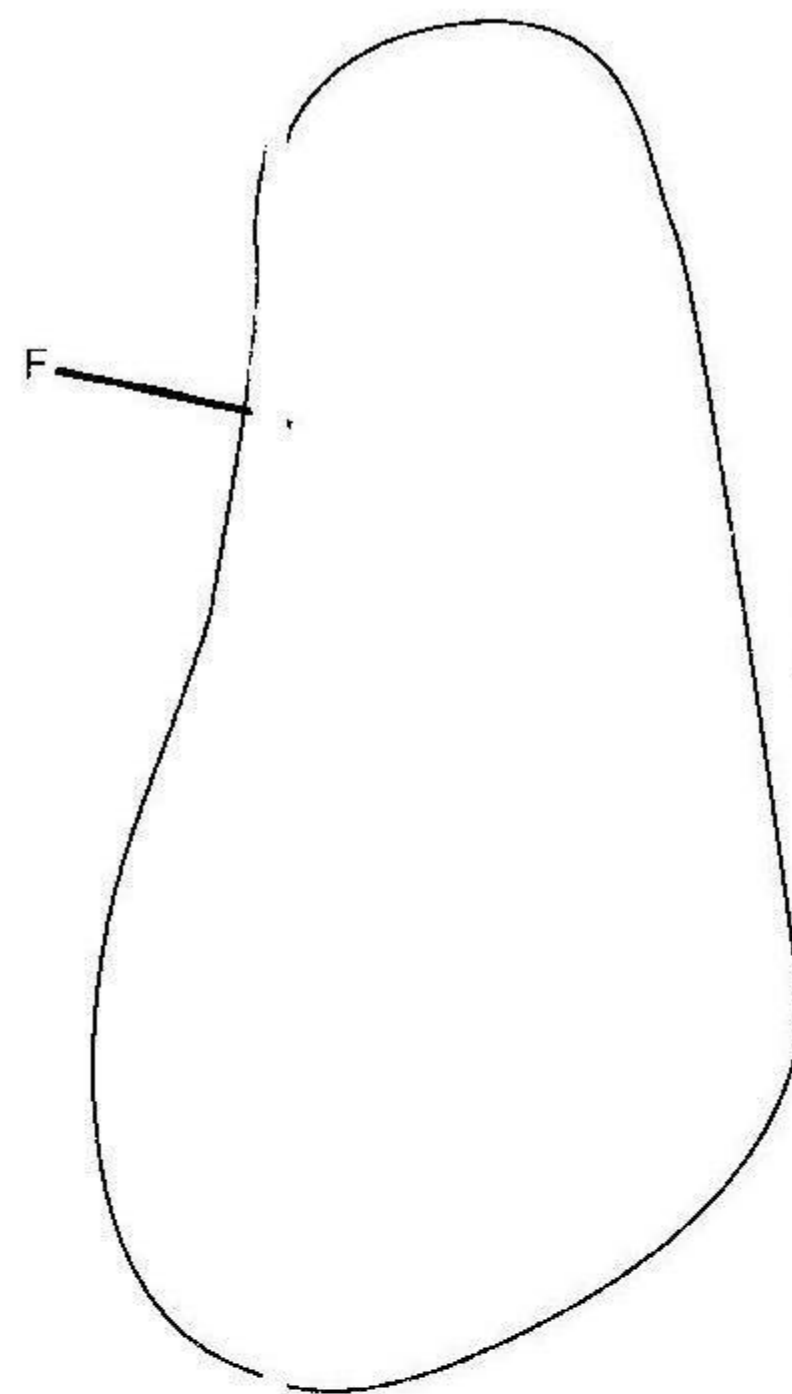
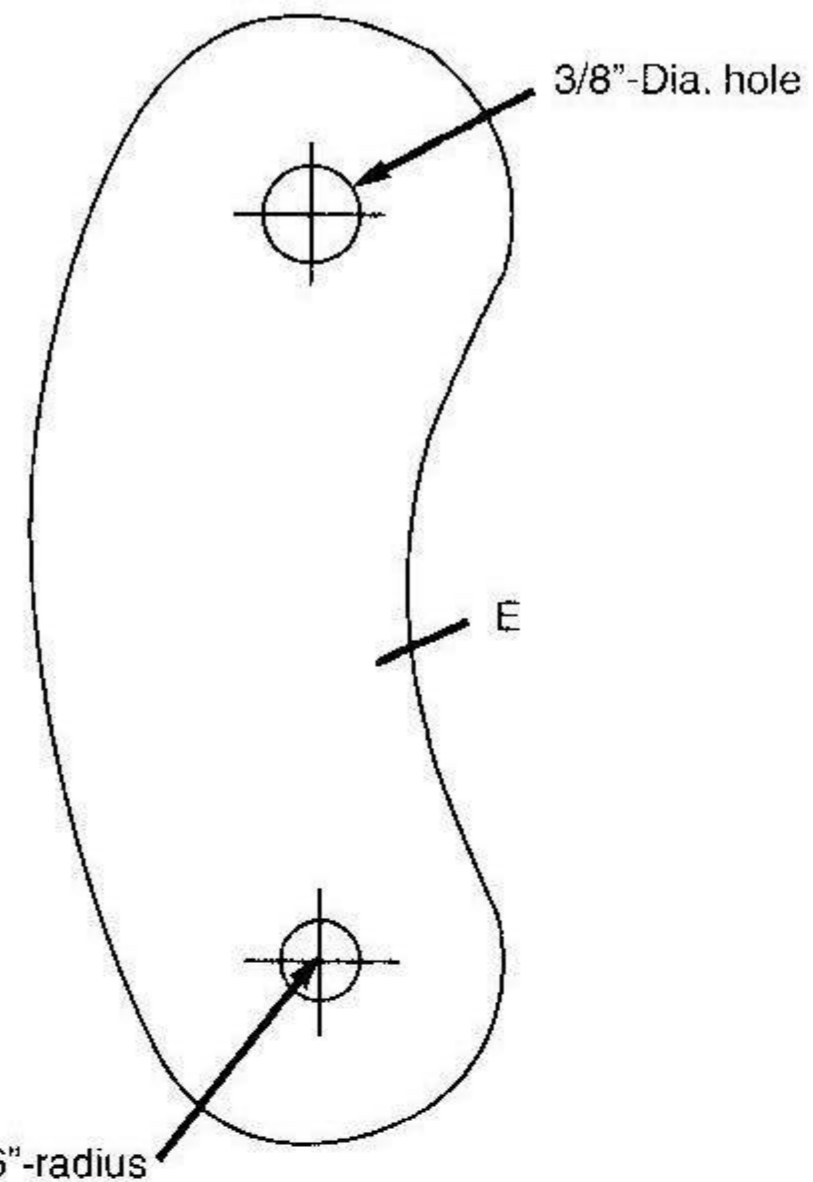
11/32"-Dia. thru

3/8"-Dia. thru

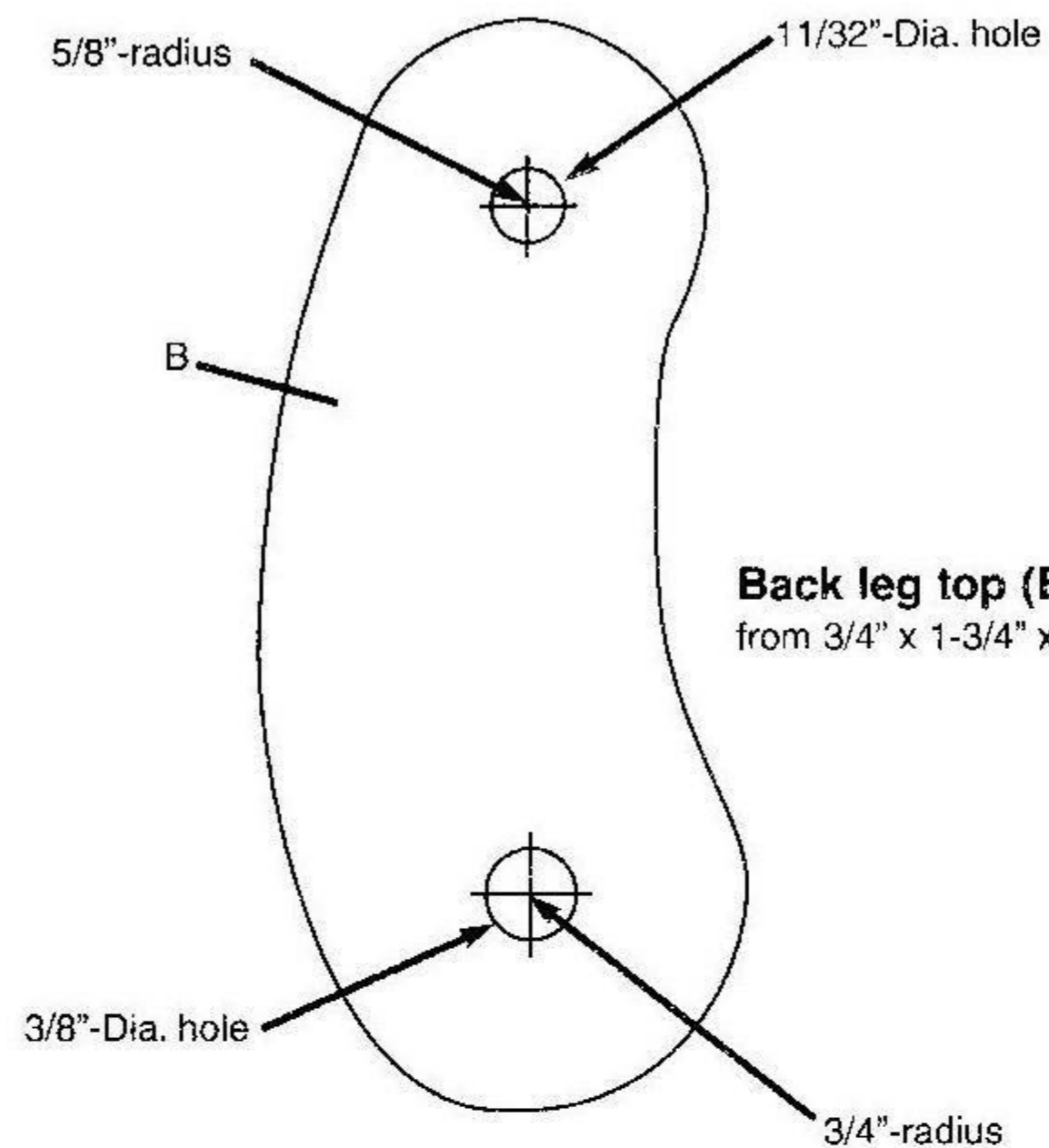
3/4"-radius



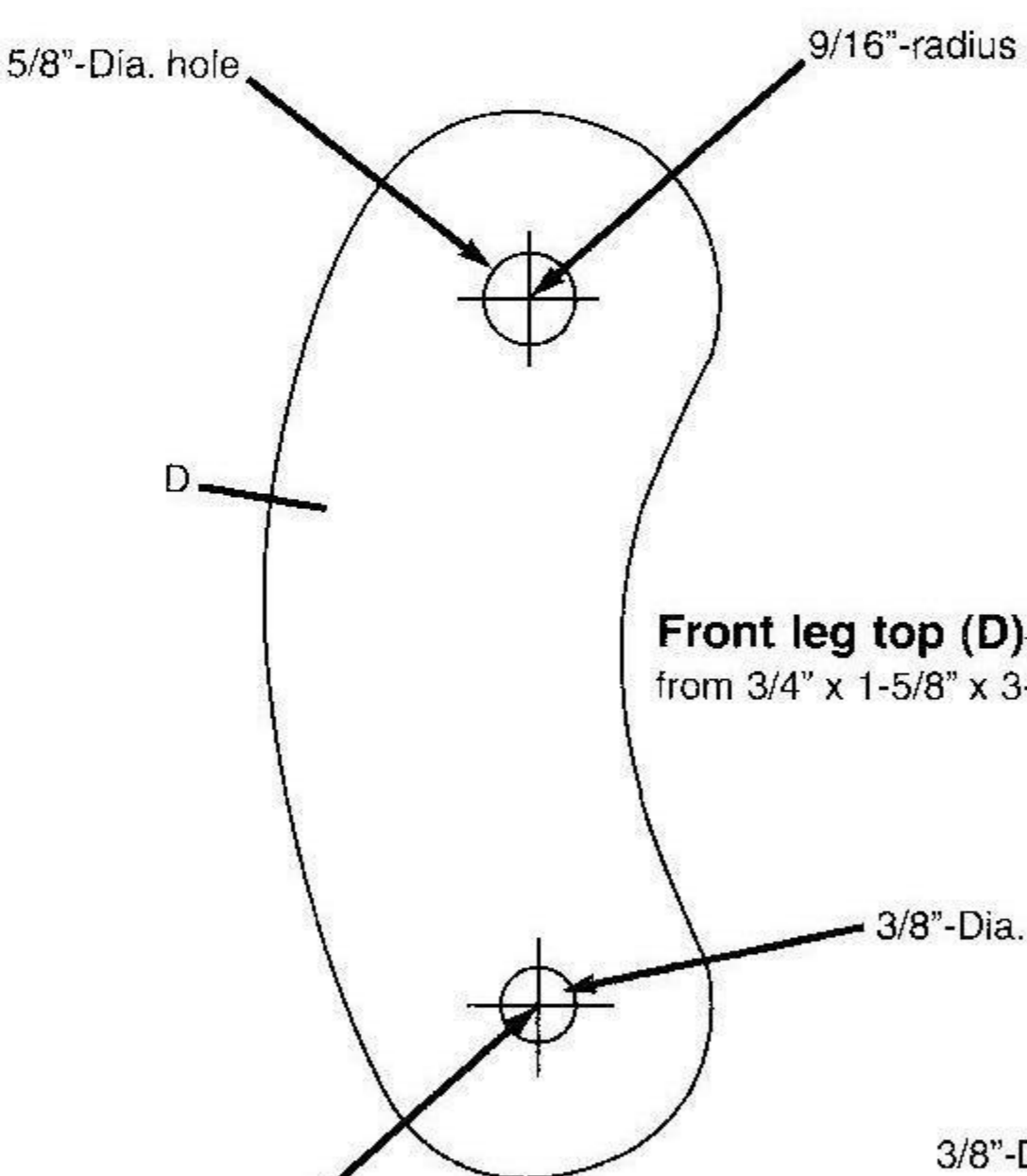
**Front leg bottom (E)**—make two from 5/8" x 1-9/16" x 4" stock



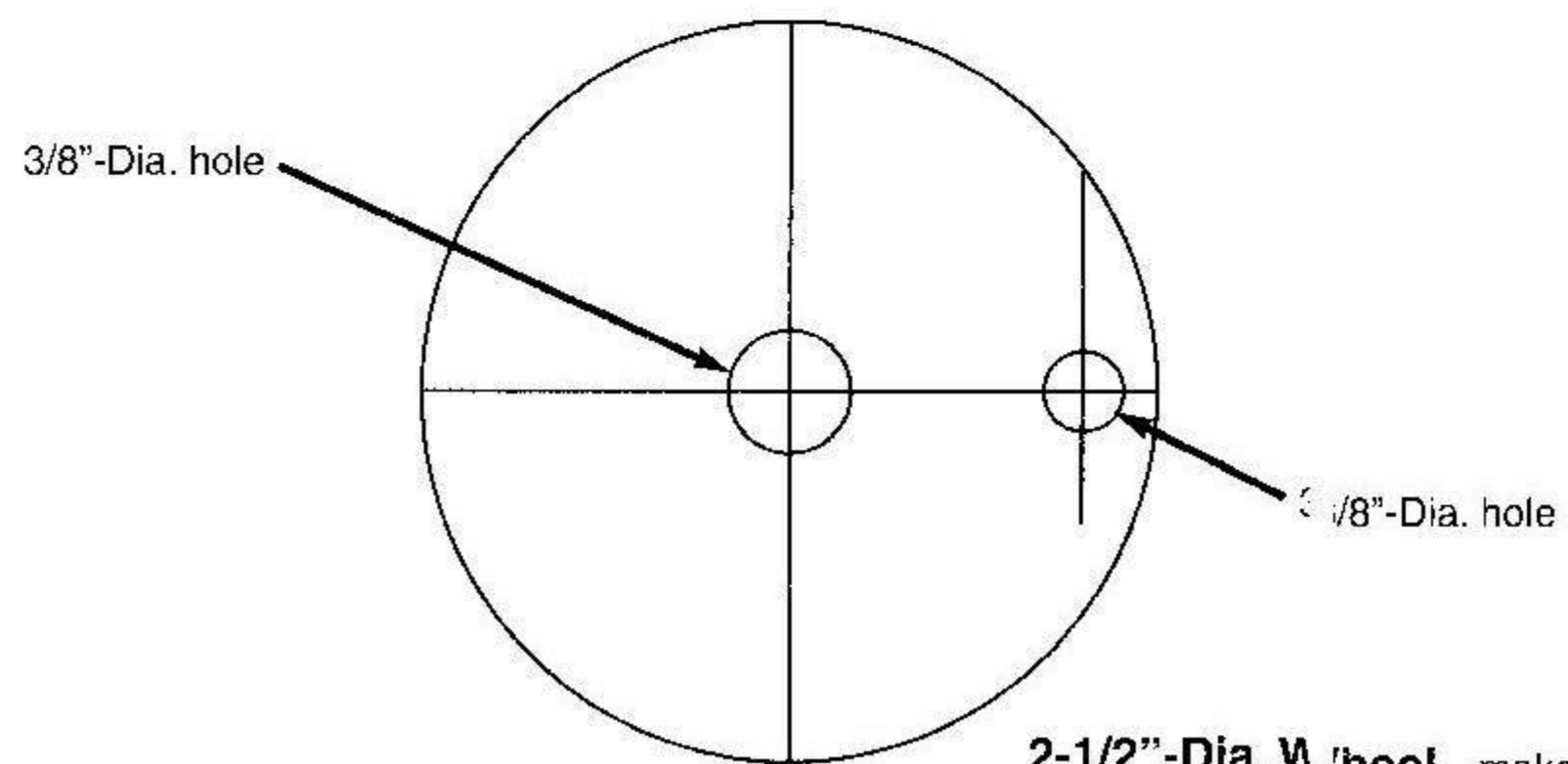
**Ear (F)**—make two from 5/16" x 2-1/2" x 4-1/2" stock



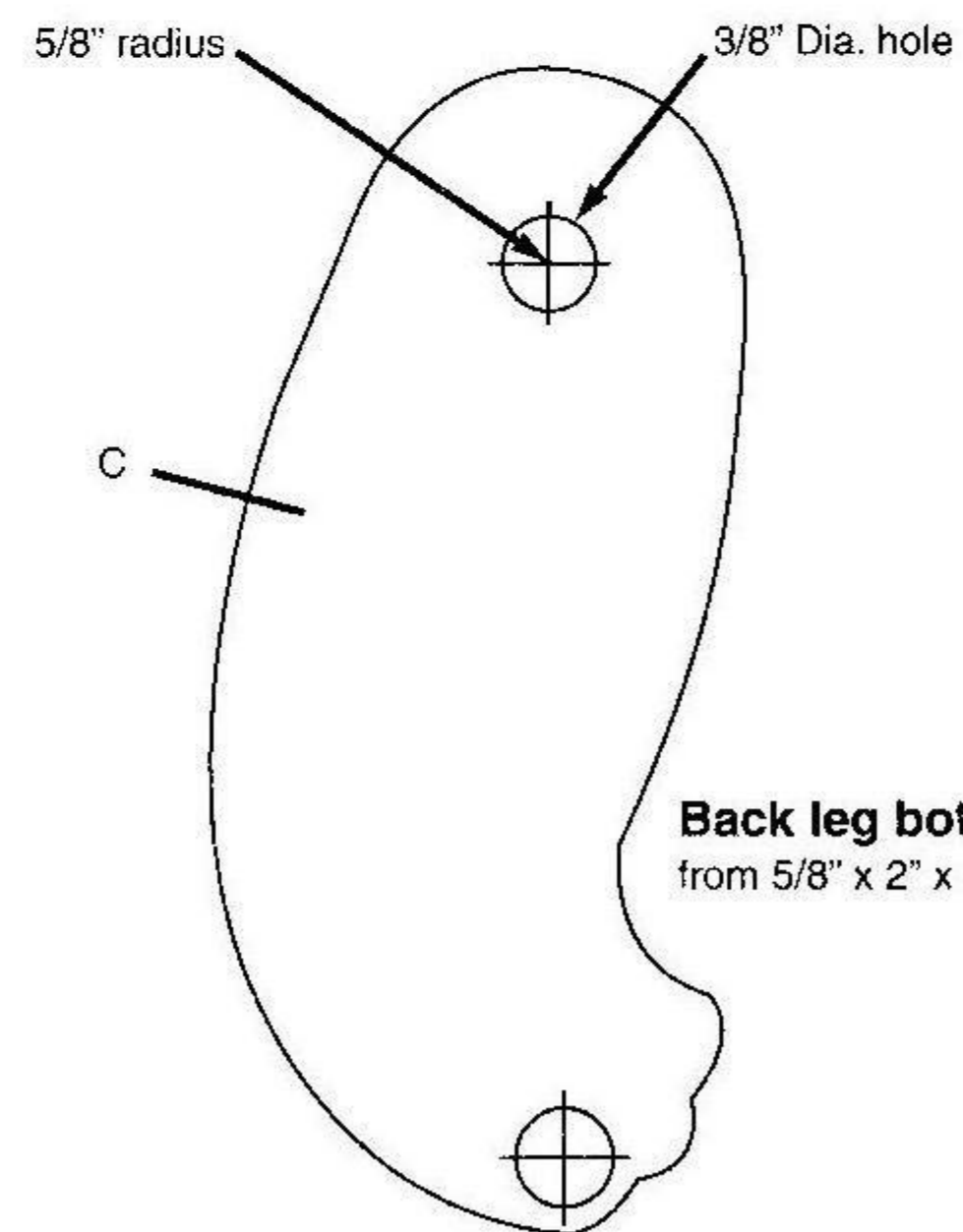
**Back leg top (B)**—make two from 3/4" x 1-3/4" x 4" stock



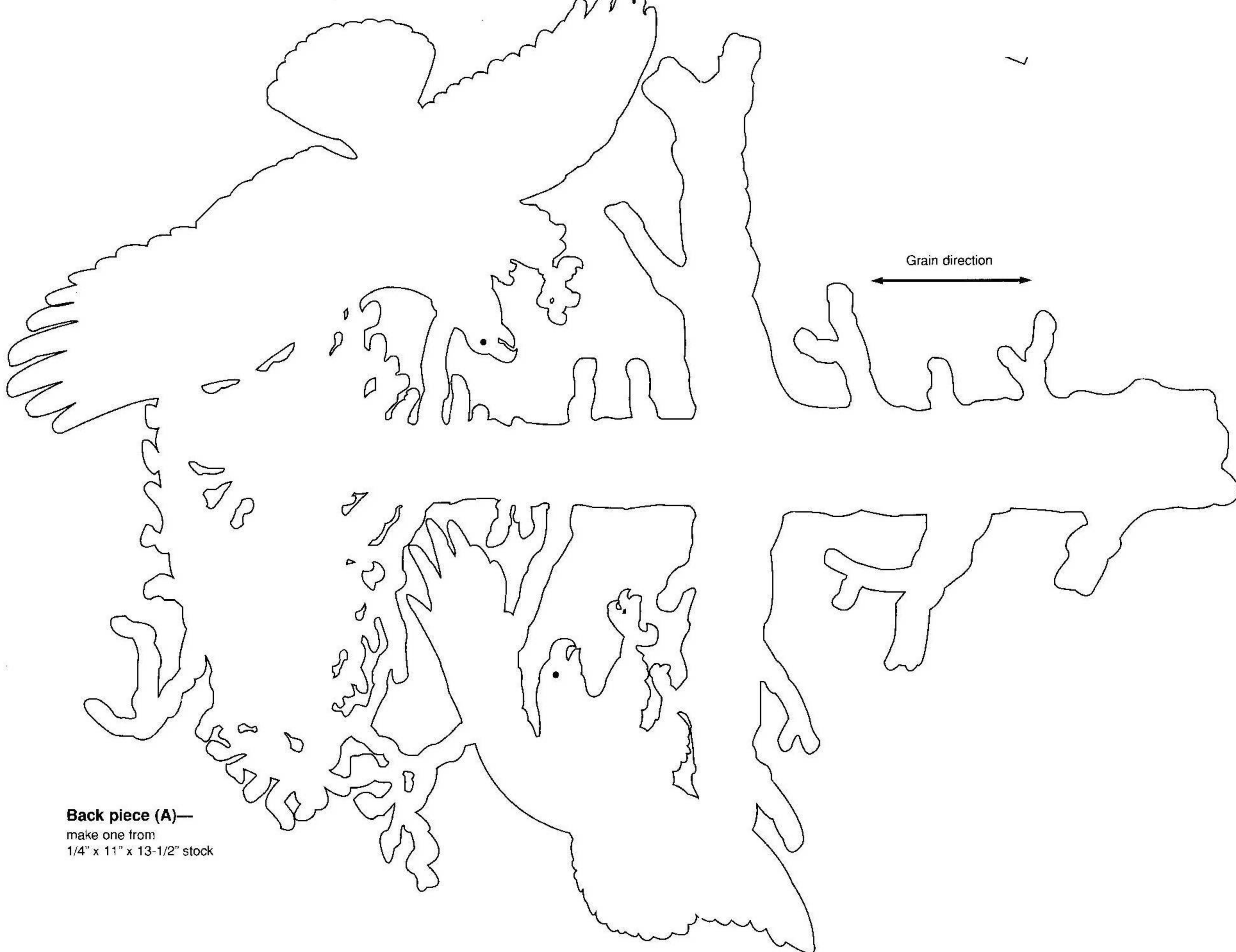
**Front leg top (D)**—make two from 3/4" x 1-5/8" x 3-3/4" stock



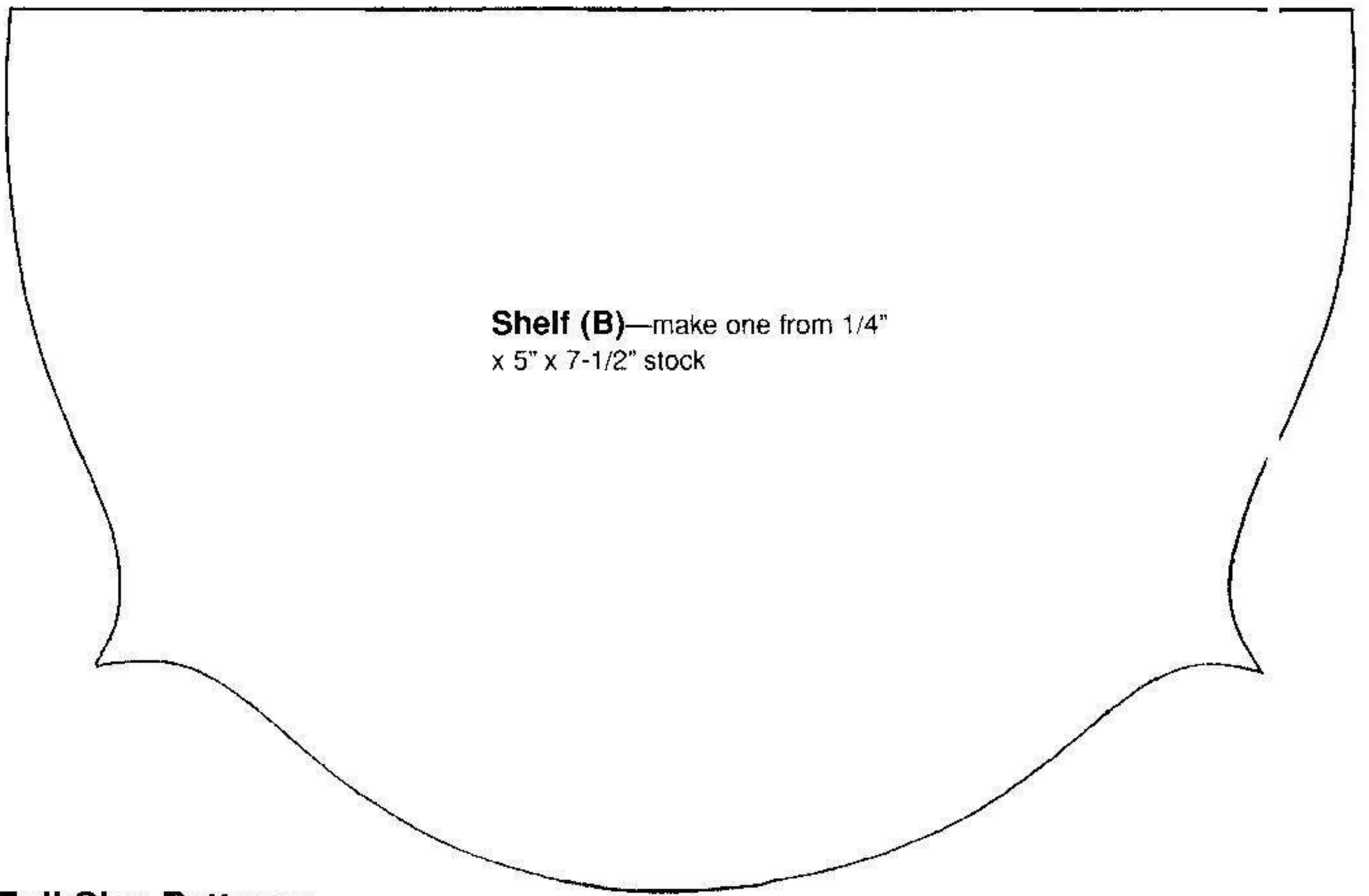
**2-1/2"-Dia. W heel**—make four



**Back leg bottom (C)**—make two from 5/8" x 2" x 4" stock

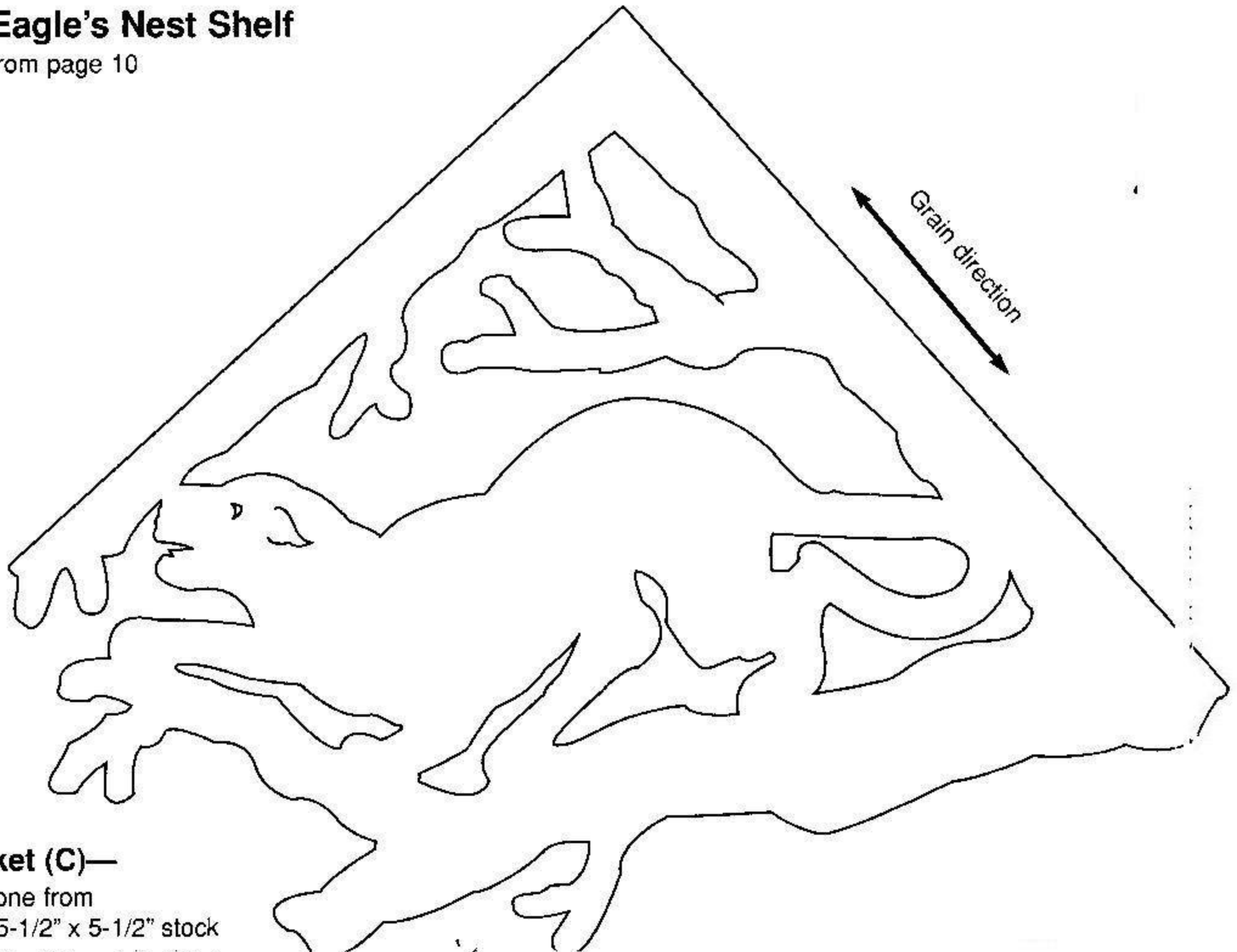


**Back piece (A)—**  
make one from  
1/4" x 11" x 13-1/2" stock



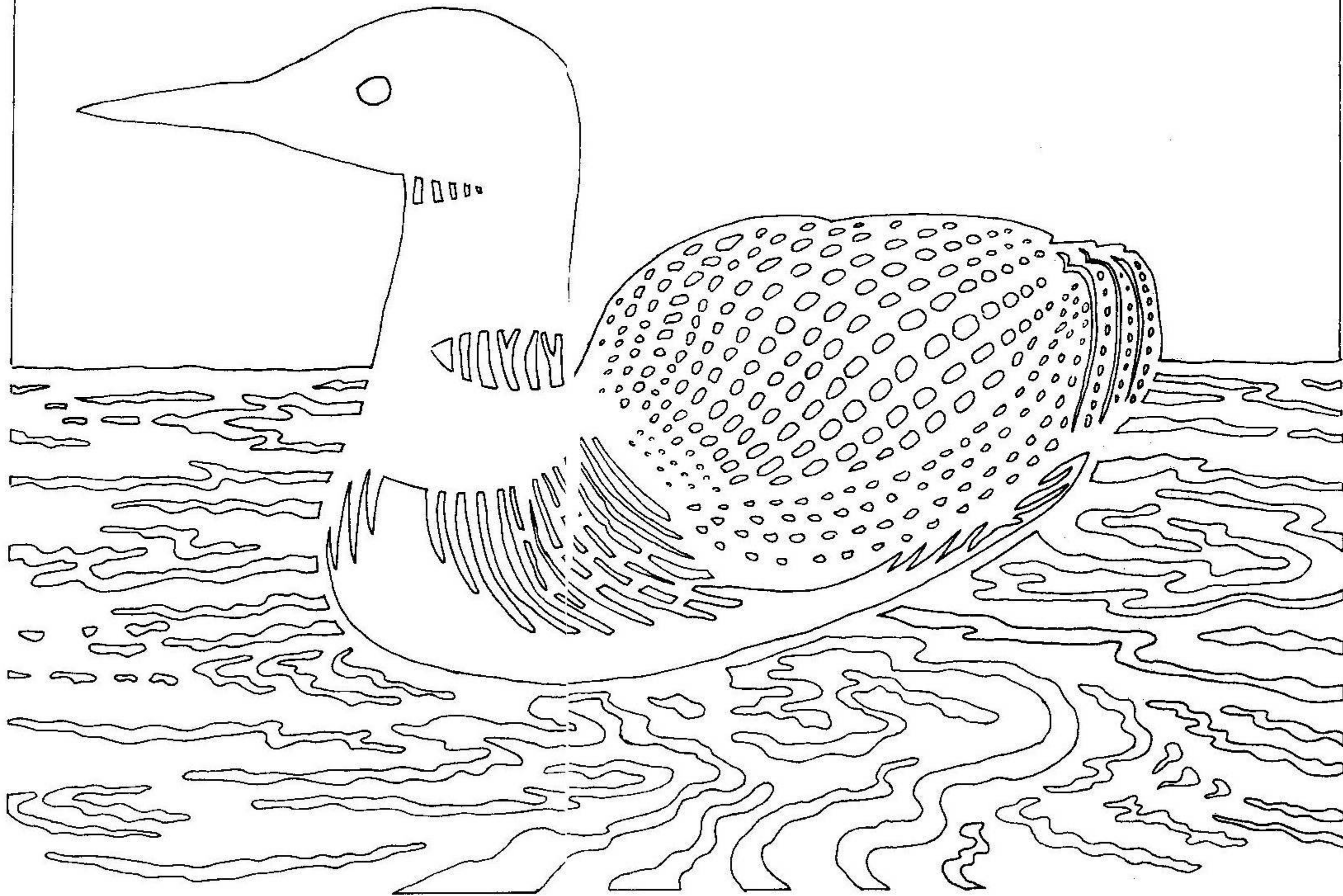
**Shelf (B)**—make one from 1/4"  
x 5" x 7-1/2" stock

**Full Size Patterns**  
**Eagle's Nest Shelf**  
from page 10

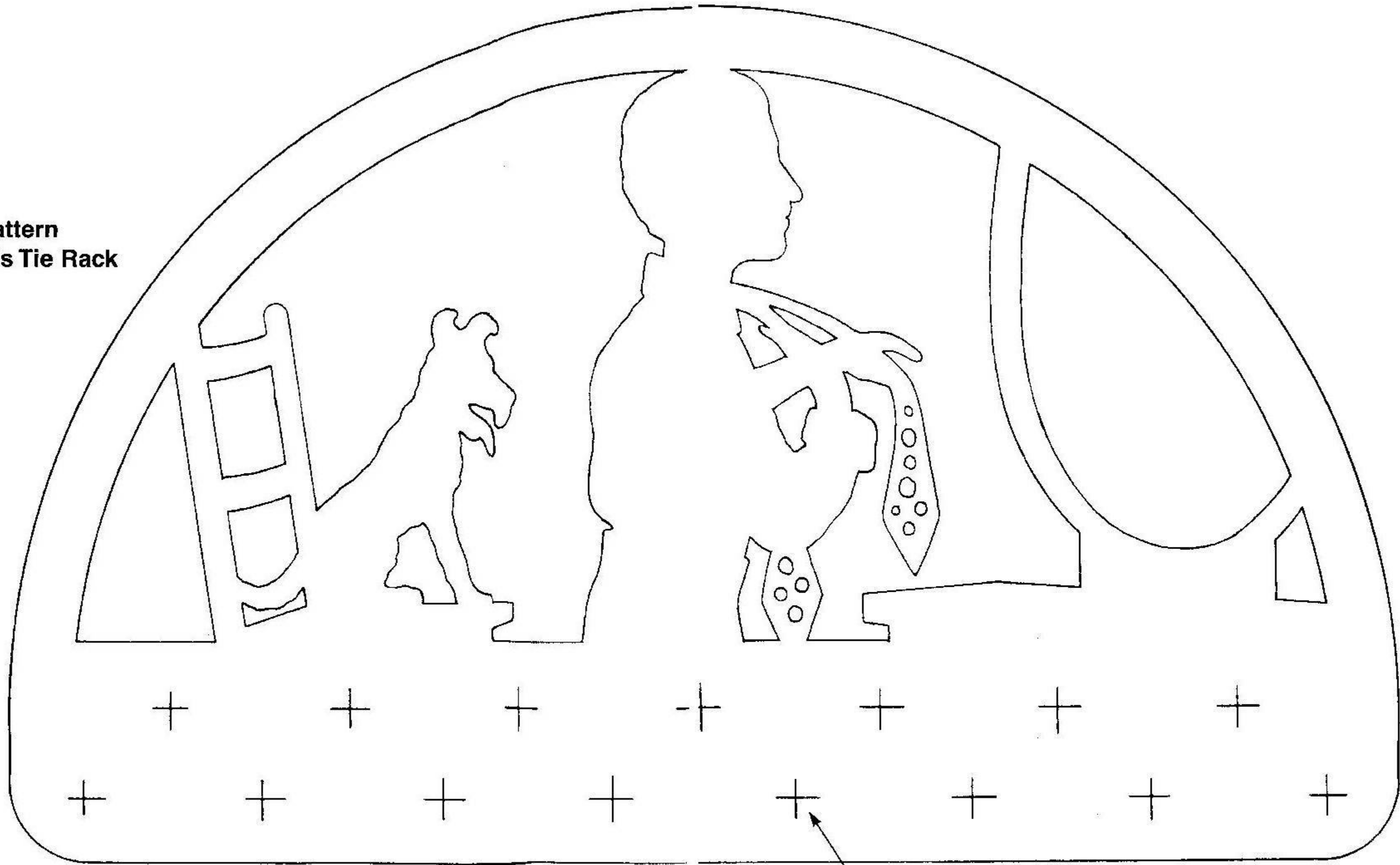


**Bracket (C)**—  
make one from  
1/4" x 5-1/2" x 5-1/2" stock

**Full Size Pattern**  
**Fretwork Loon**  
from page 70



**Full Size Pattern**  
**Gentleman's Tie Rack**  
from page 75



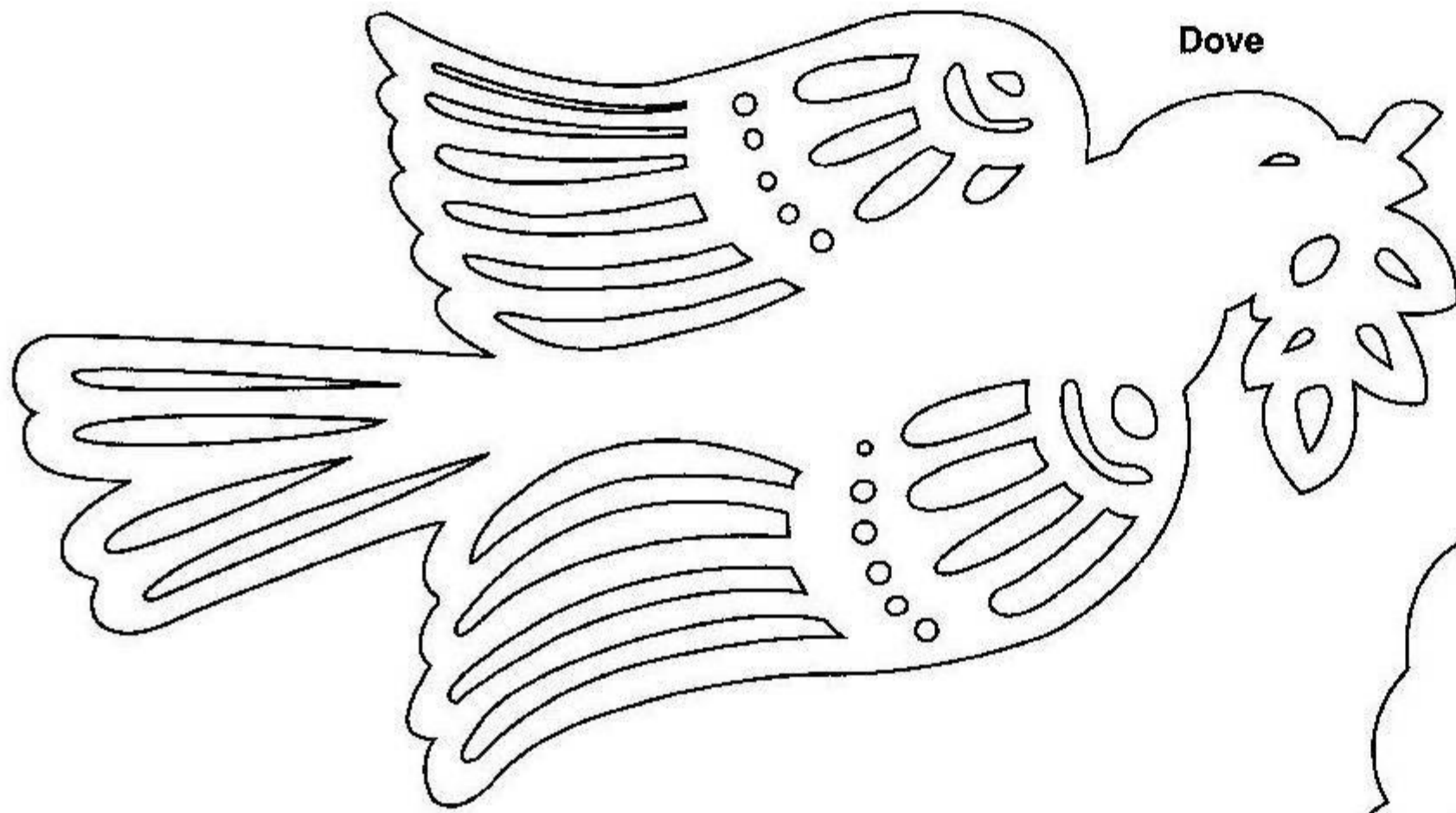
Drill-center locations—drill thru at each location shown to accommodate your specific dowels or pegs.



**Jack-In-The-Box**



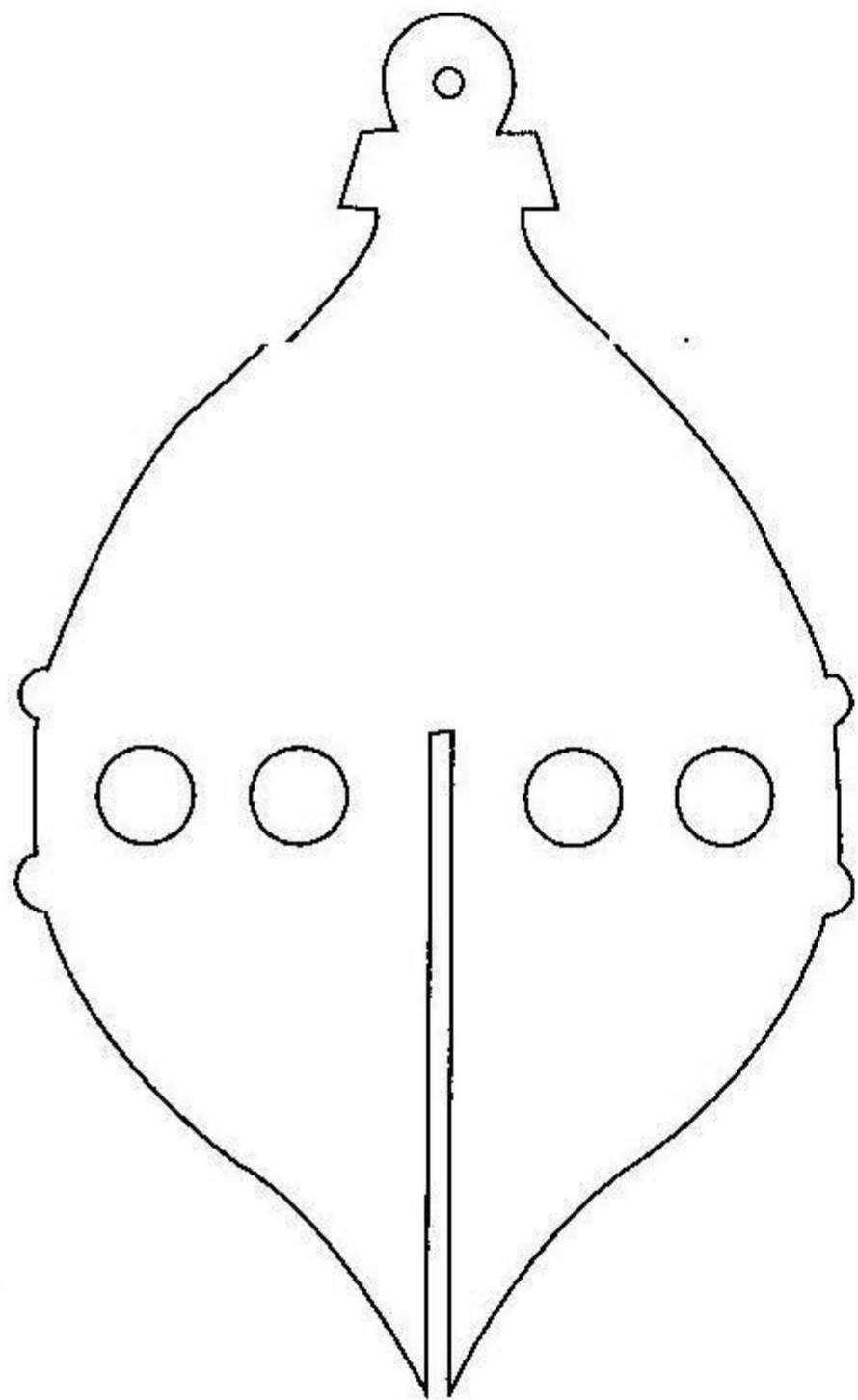
**Snowman**

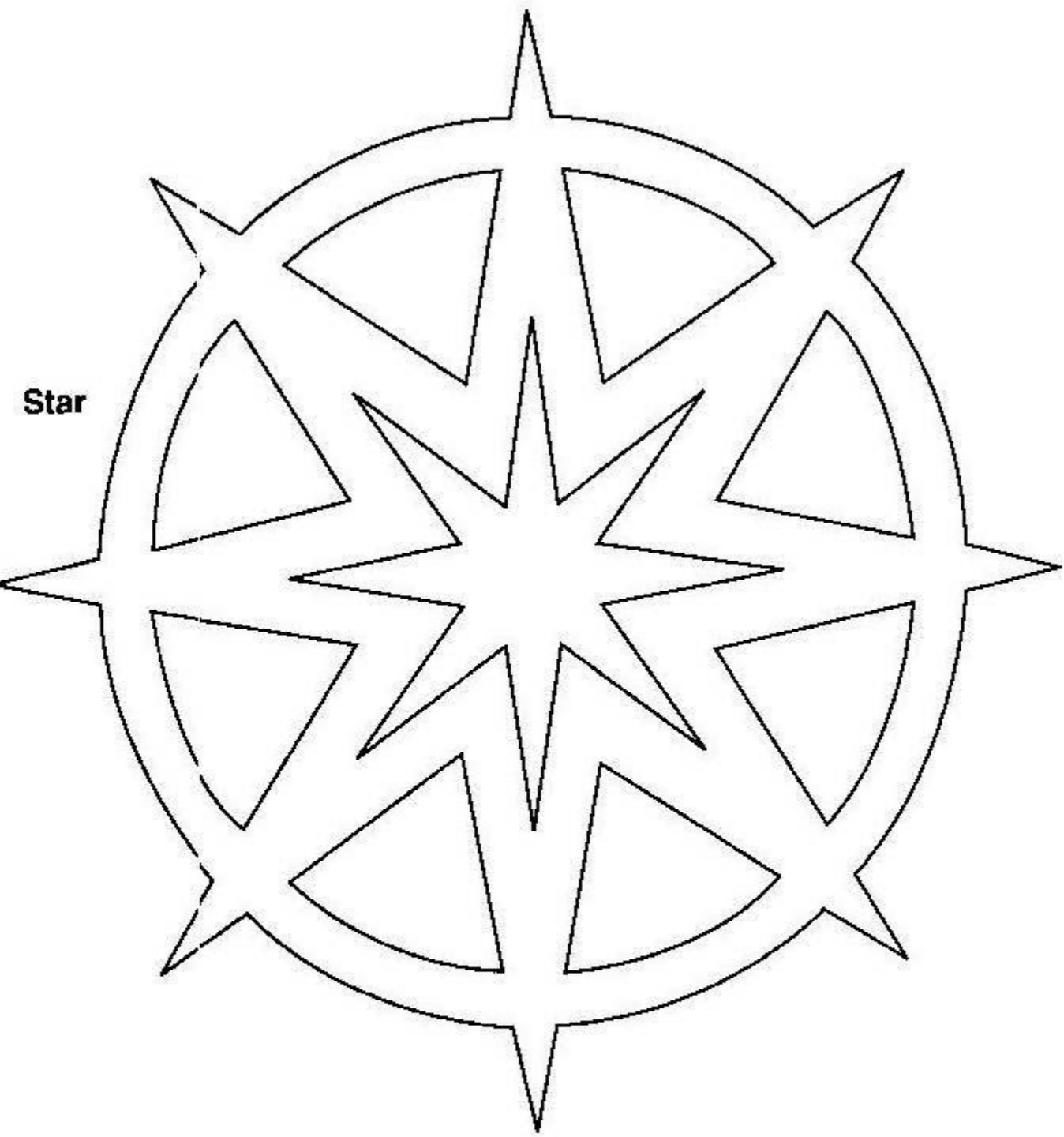


Dove

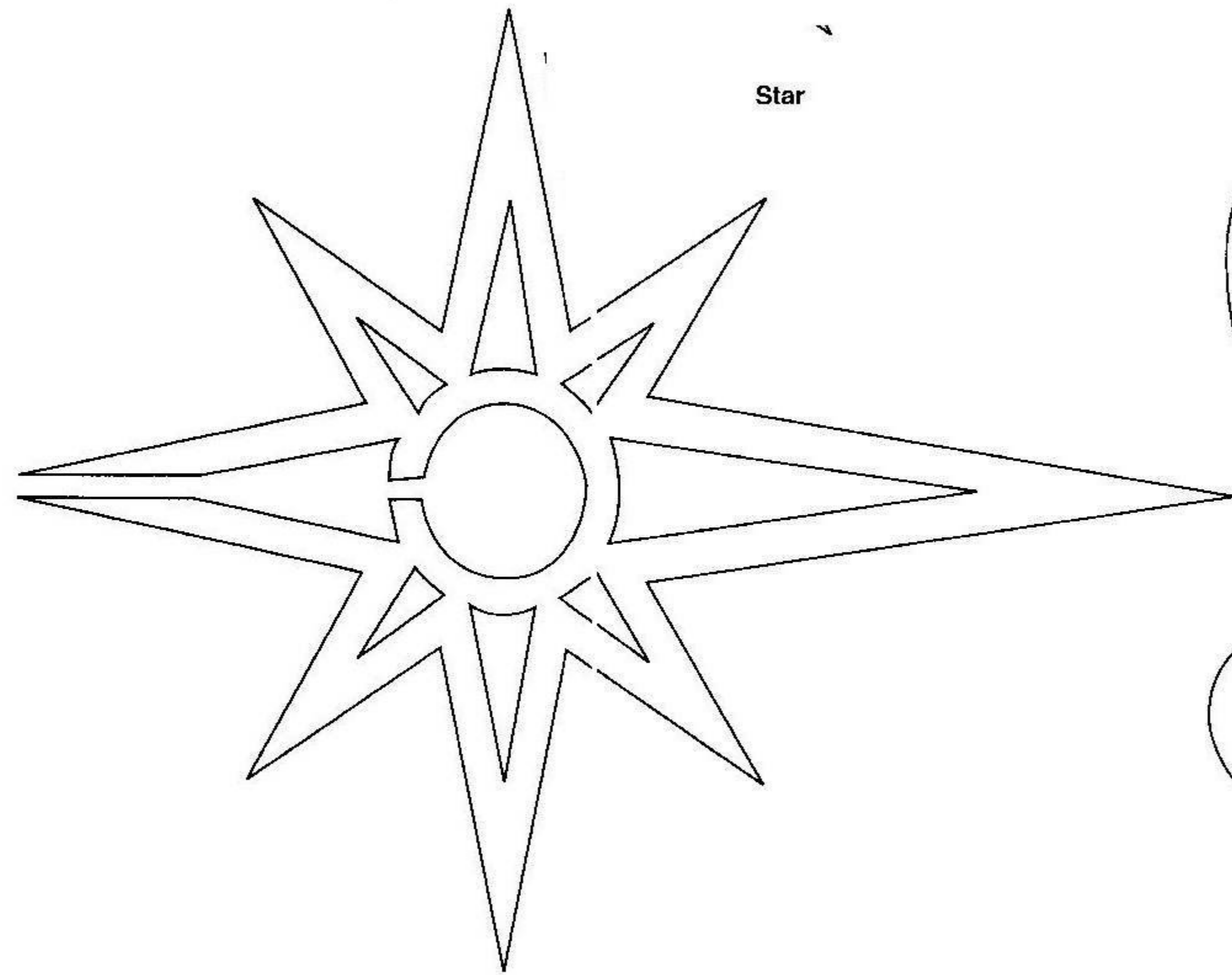


**Full Size Patterns**  
**Hardwood Ornaments**  
from page 53

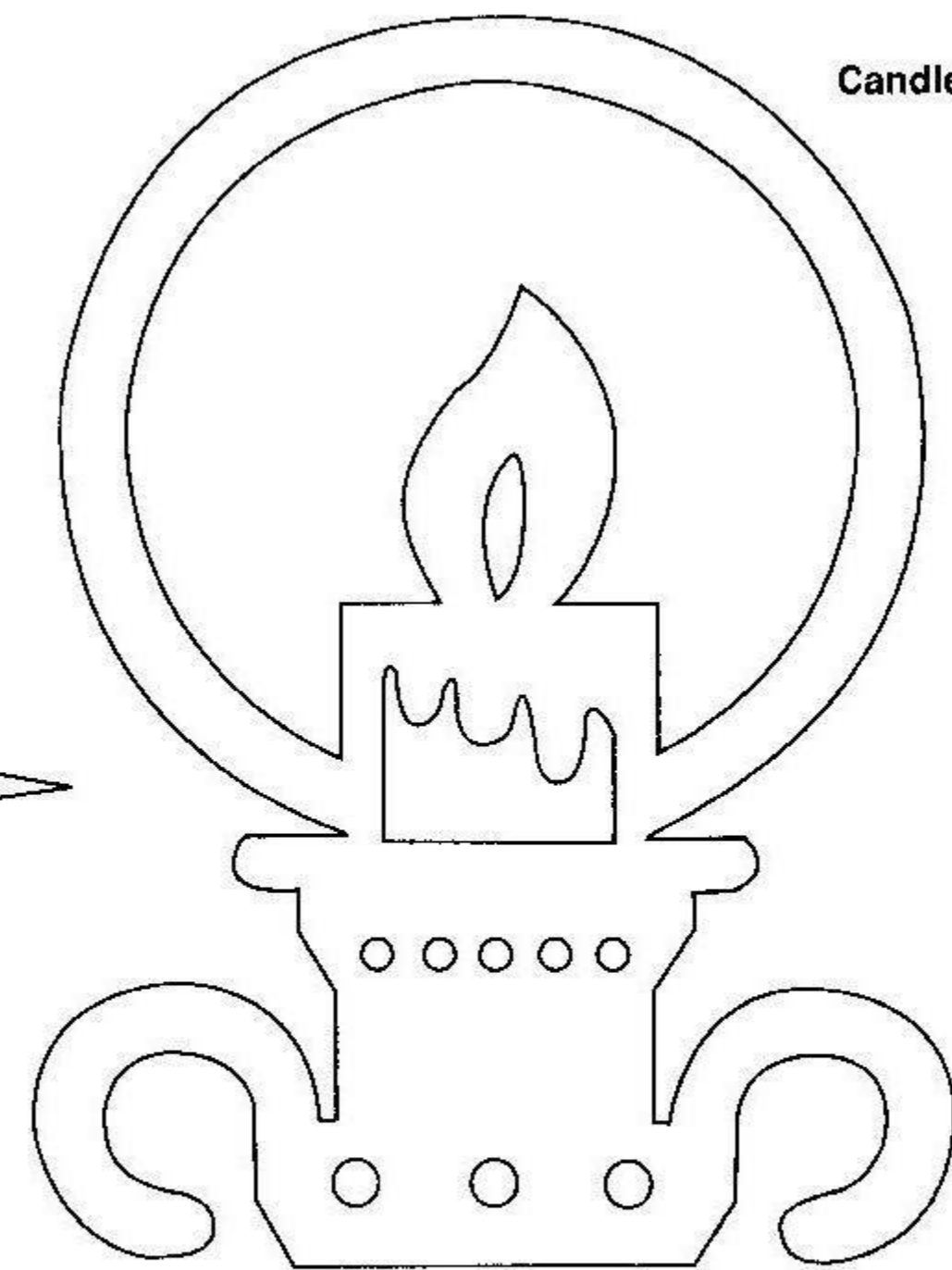




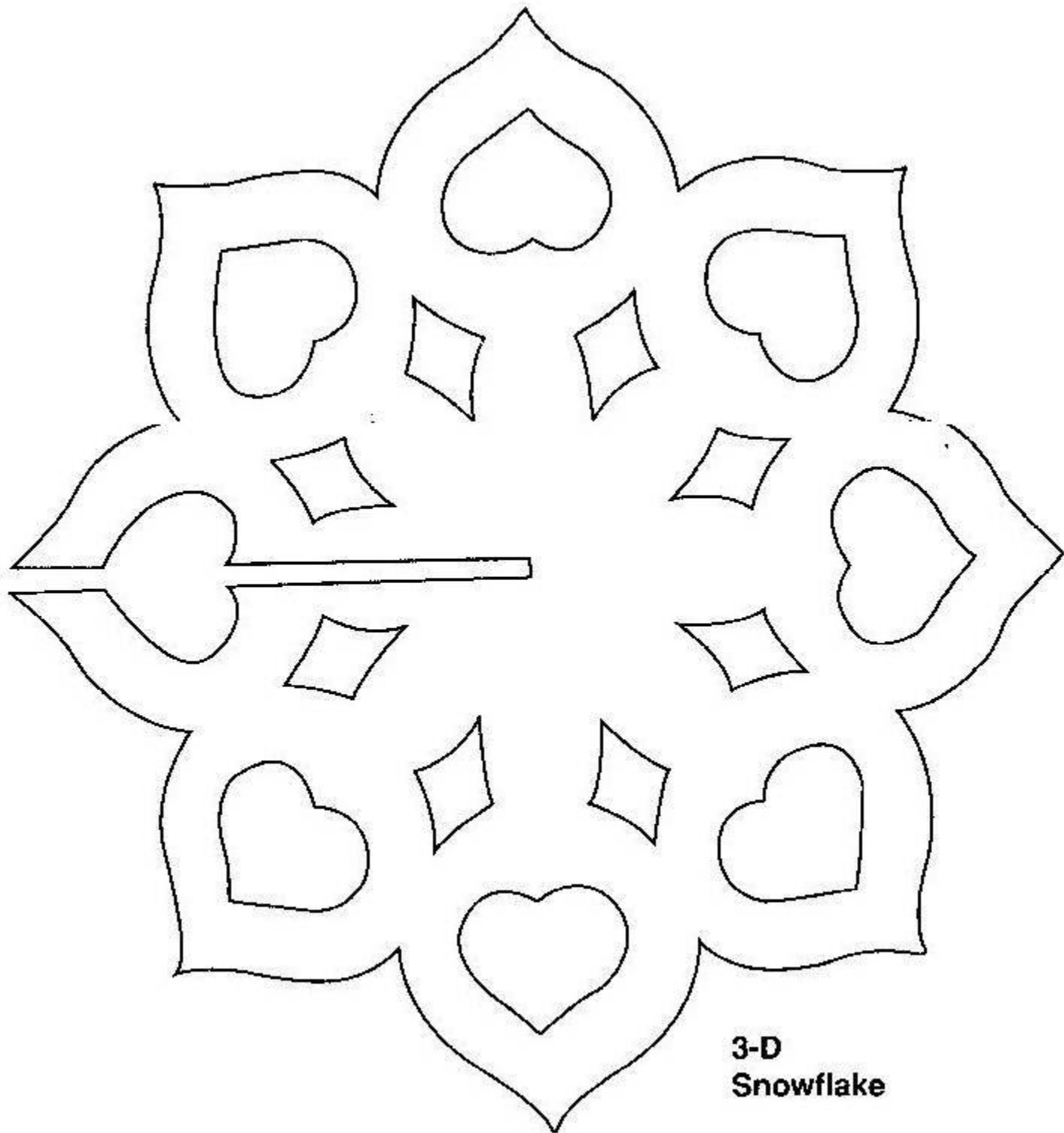
Star



Star

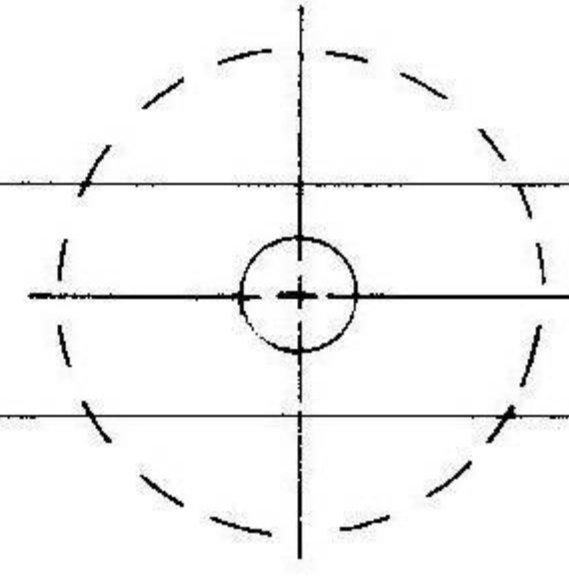
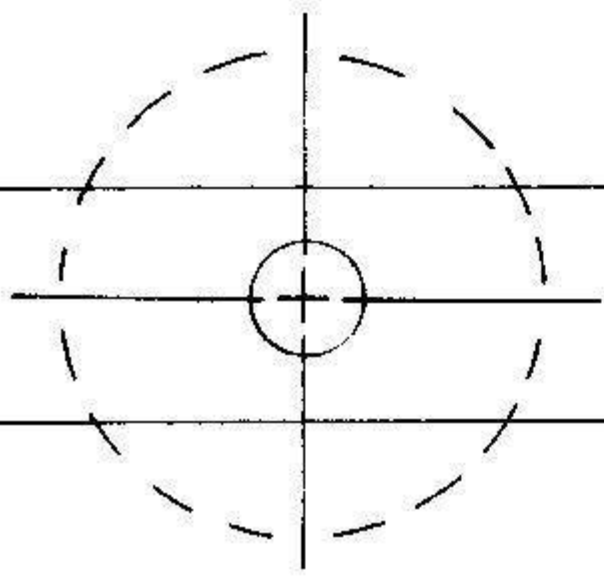


Candle



**3-D  
Snowflake**

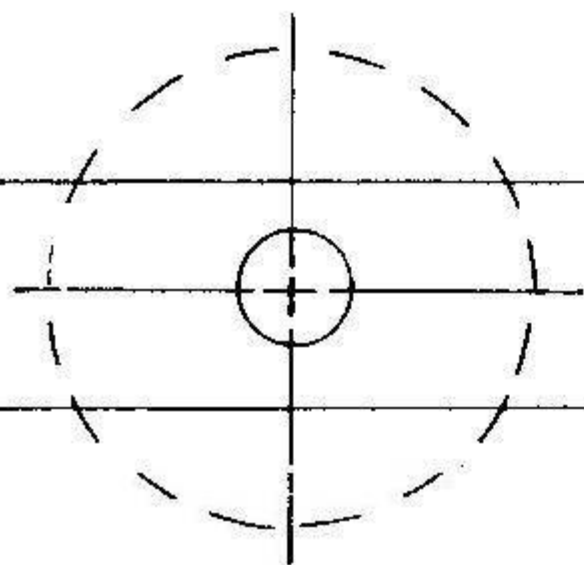
e1



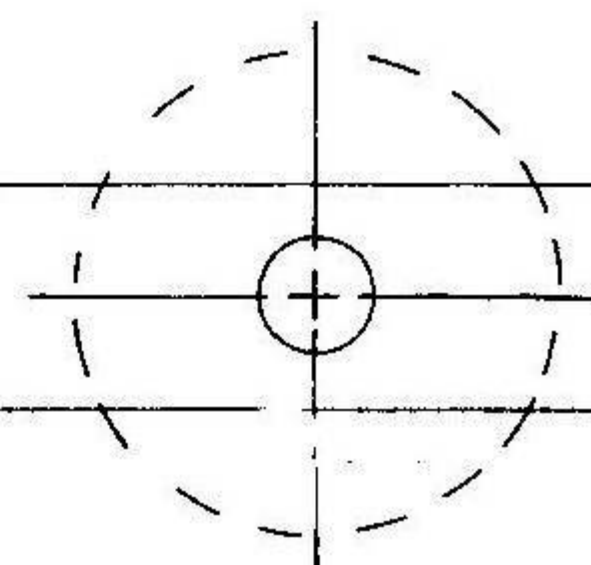
4"  
Dark (typ)

3-1/2"  
Light (typ)

4"  
Dark (typ)



3-1/4" (typ)



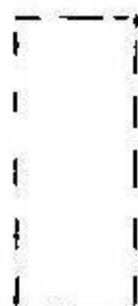
3-1/4"  
Light (typ)

5"  
Dark (typ)

4"  
Dark (typ)

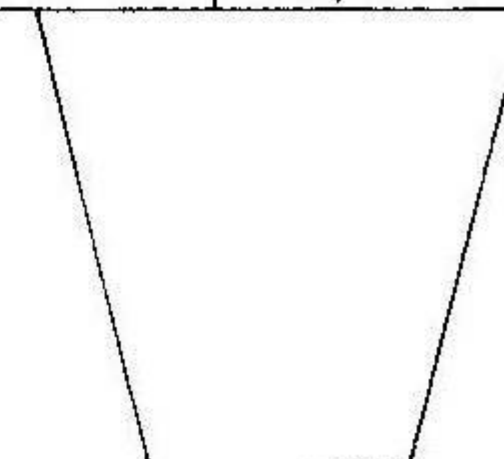
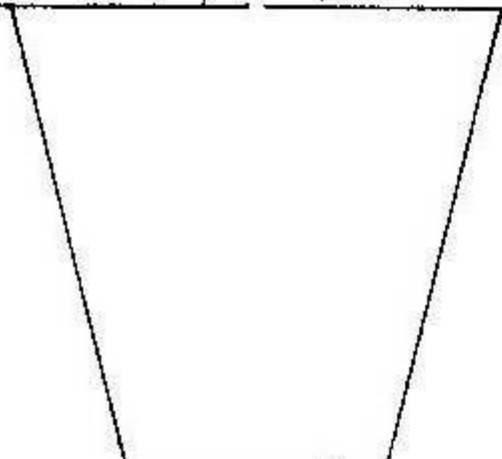
← Chamfer the edge

1-5/8" Dia. - (Top Of Leg)

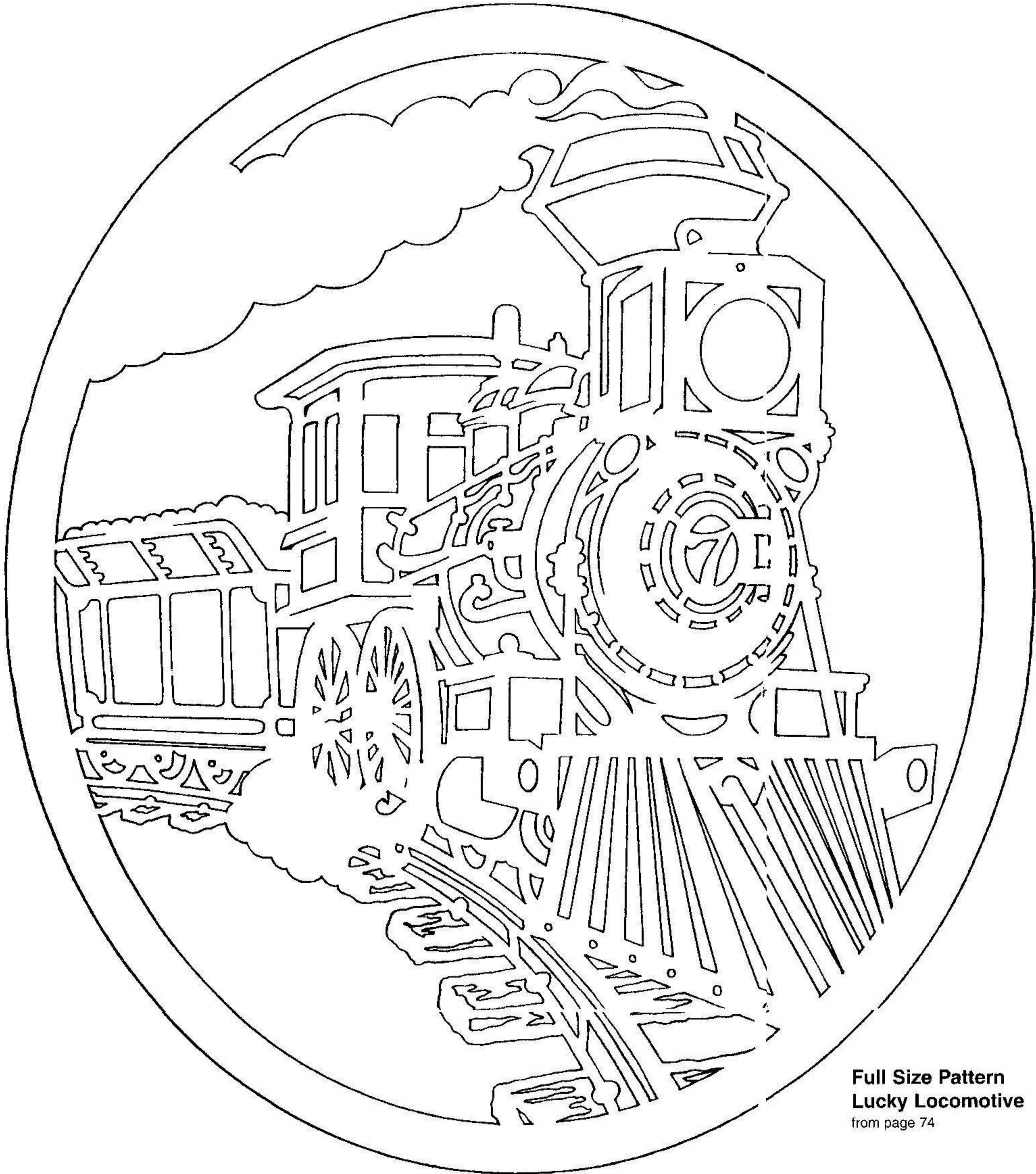


**Full Size Pattern**  
**Laminated Chopping Block**  
from page 16

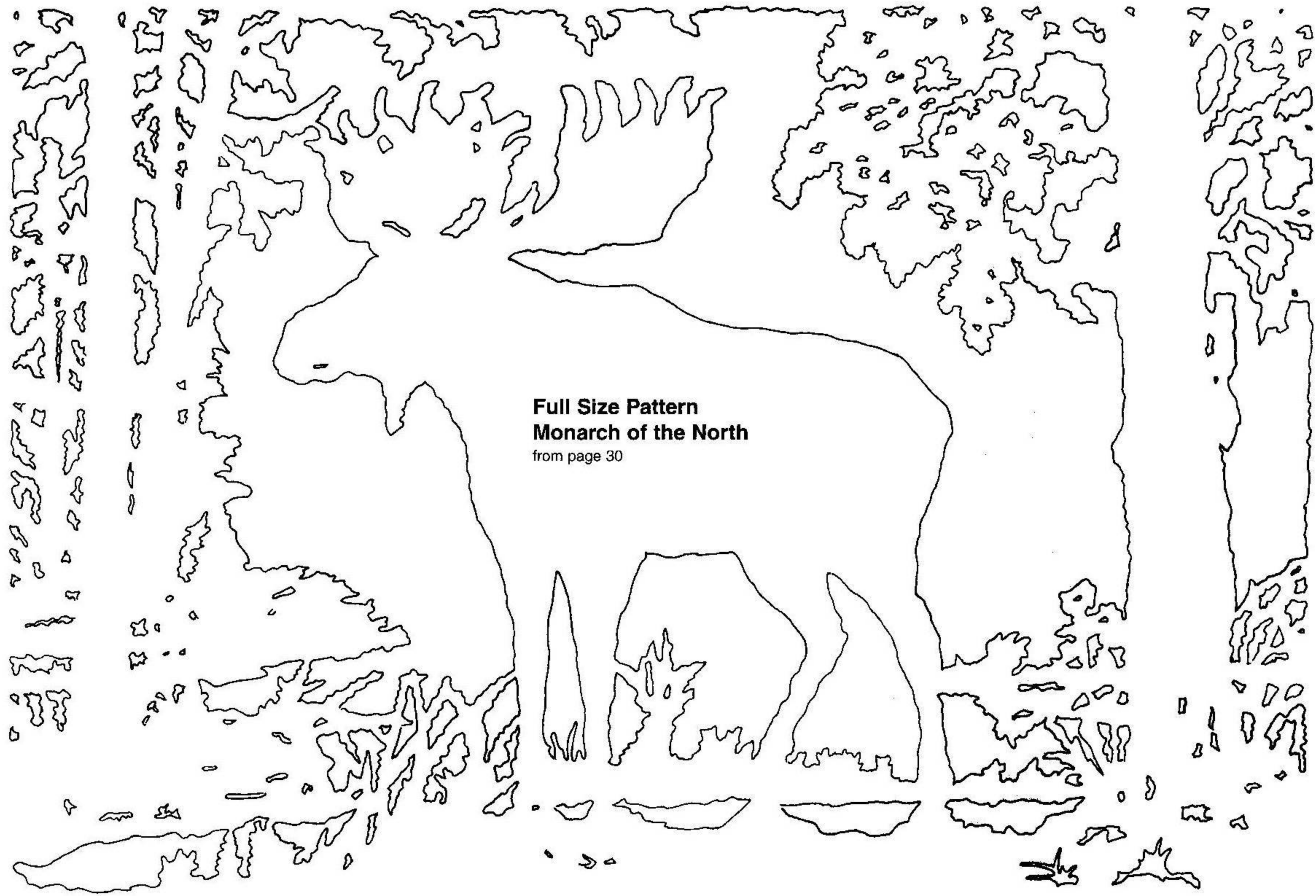
Side View



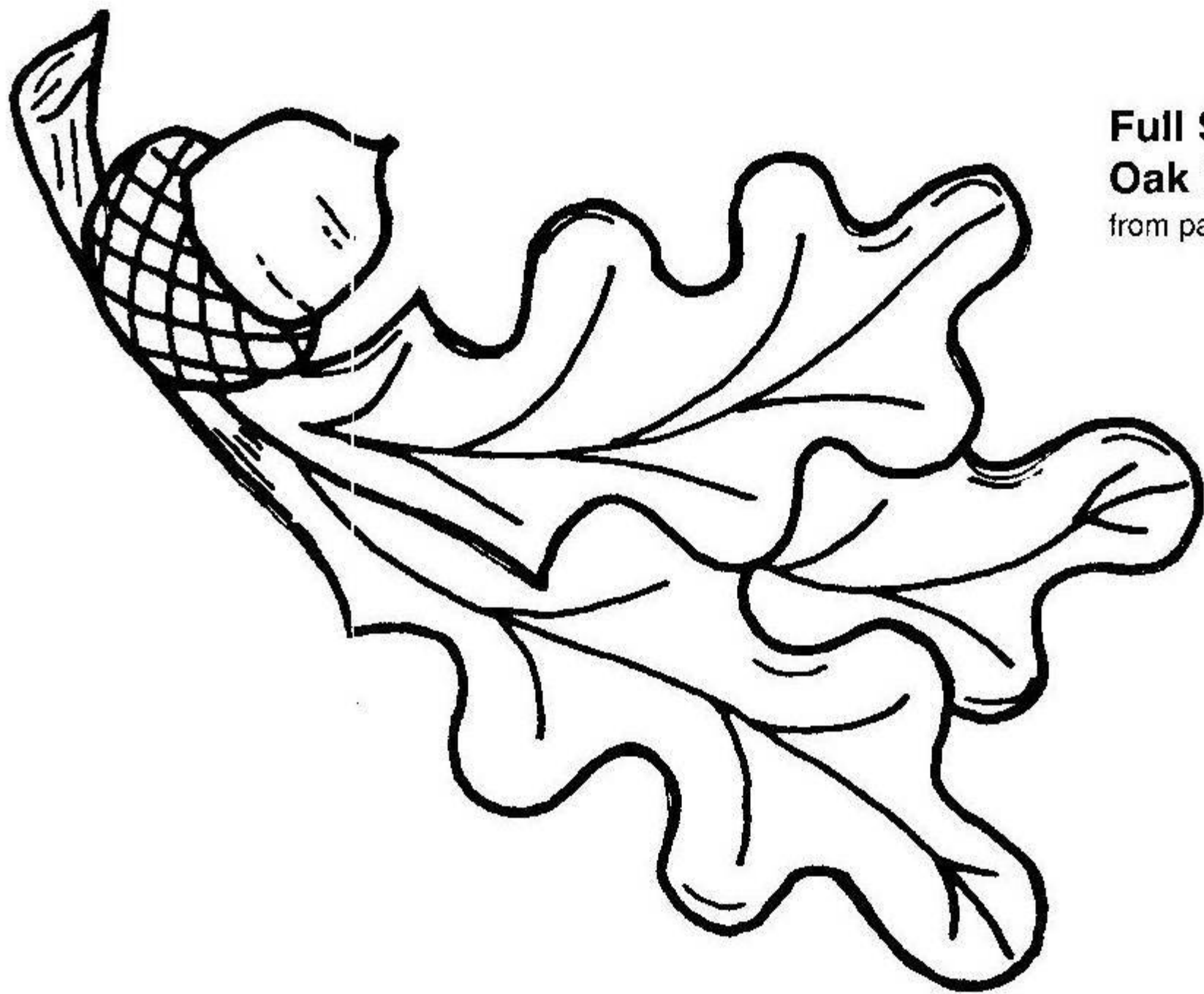
7/8" Dia. - (Bottom Of Leg)



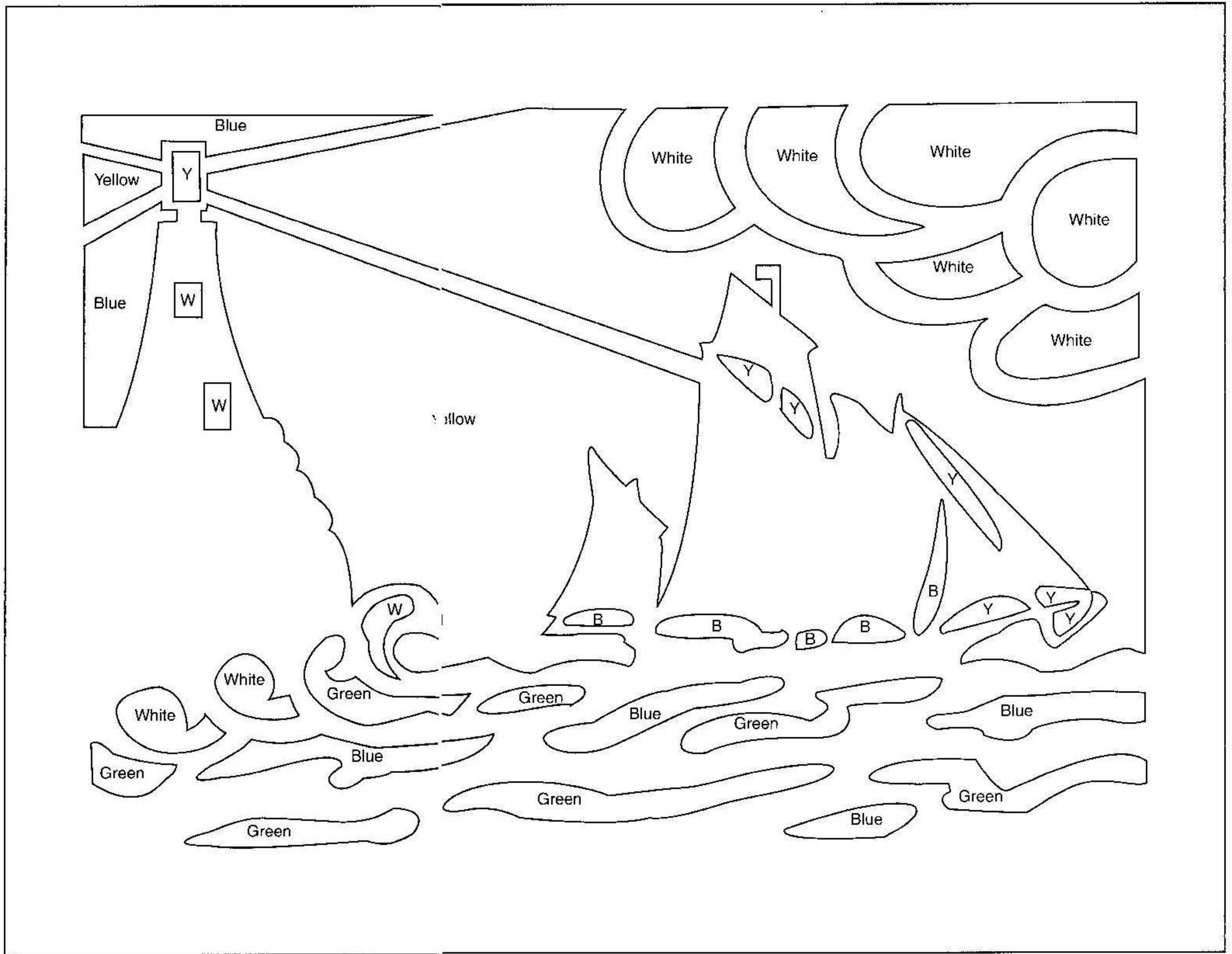
**Full Size Pattern**  
**Lucky Locomotive**  
from page 74



**Full Size Pattern**  
**Monarch of the North**  
from page 30



**Full Size Pattern**  
**Oak Leaf Cluster**  
from page 51

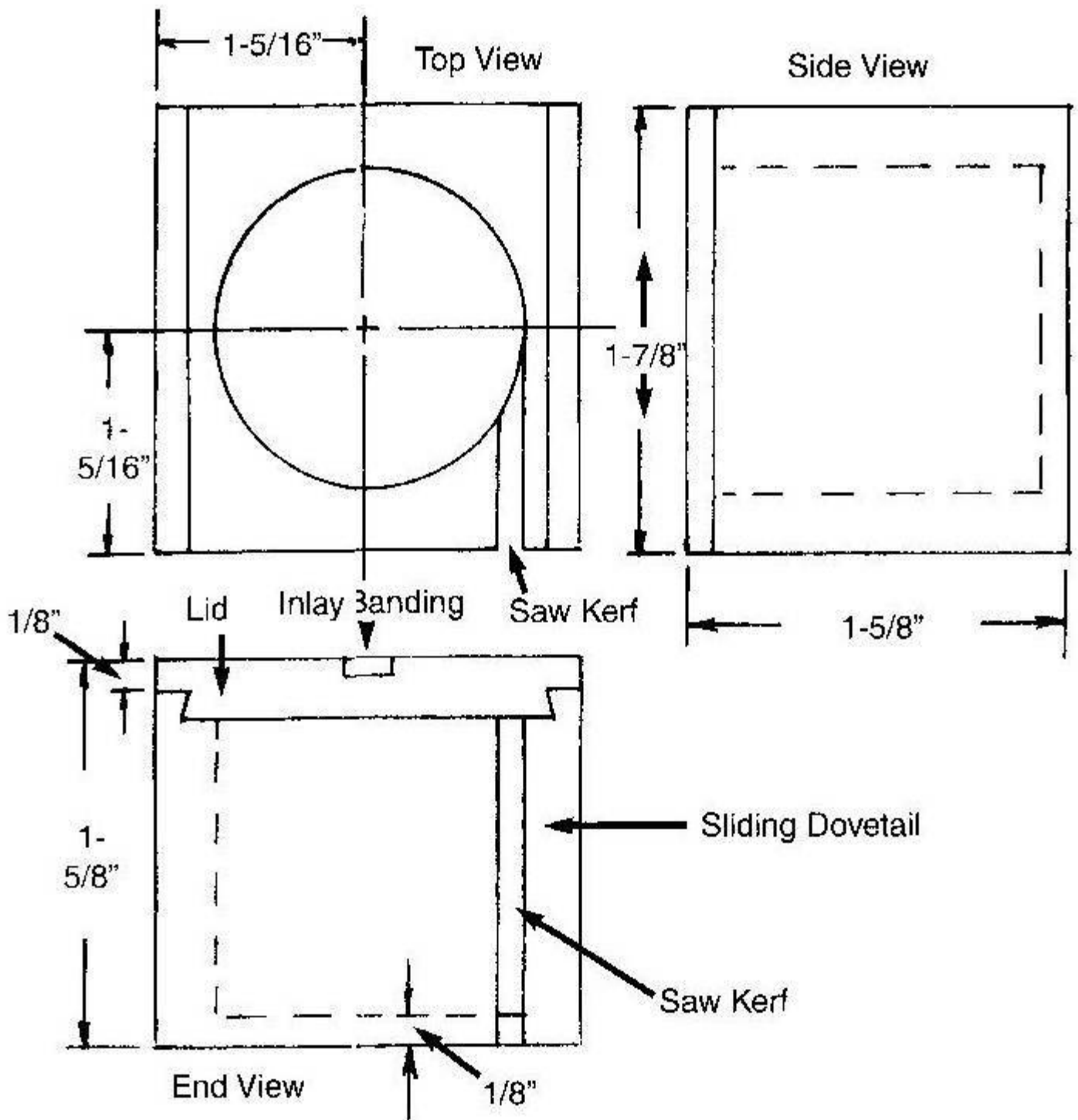


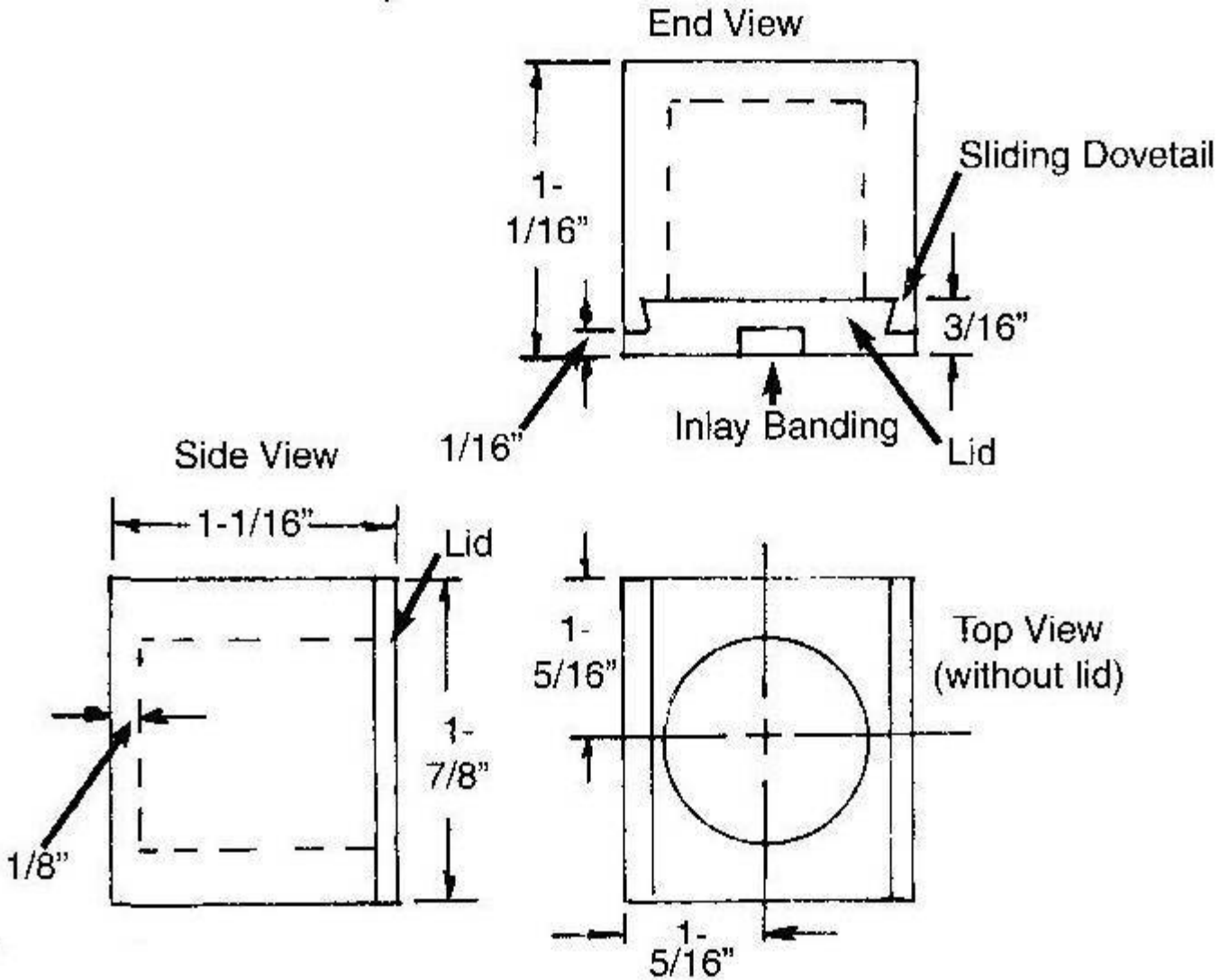
**Full Size Patterns**

**Ocean Plaque**

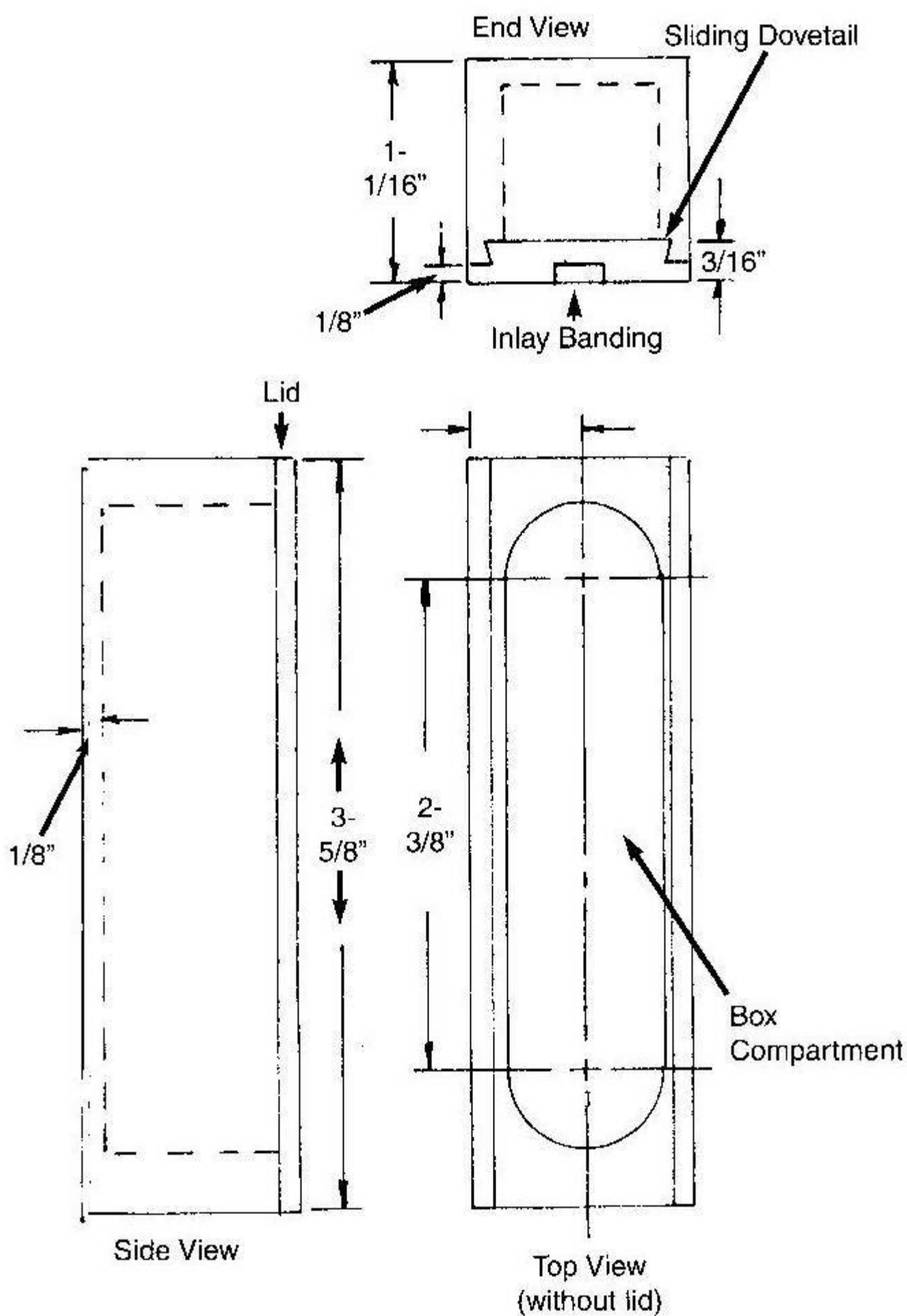
from page 60

# Stamp Box



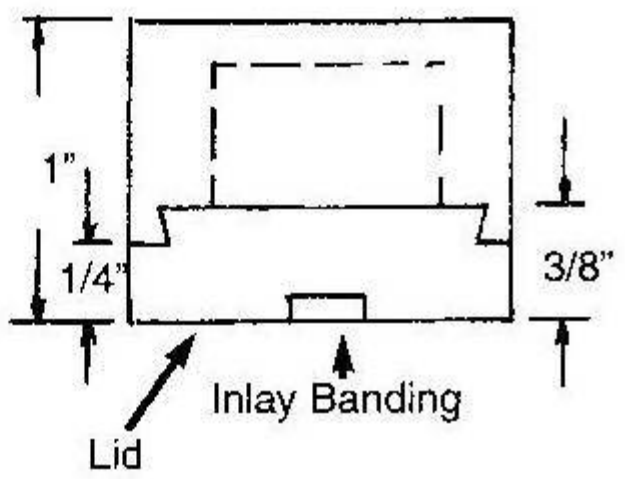


**Tiny Treasure Box**



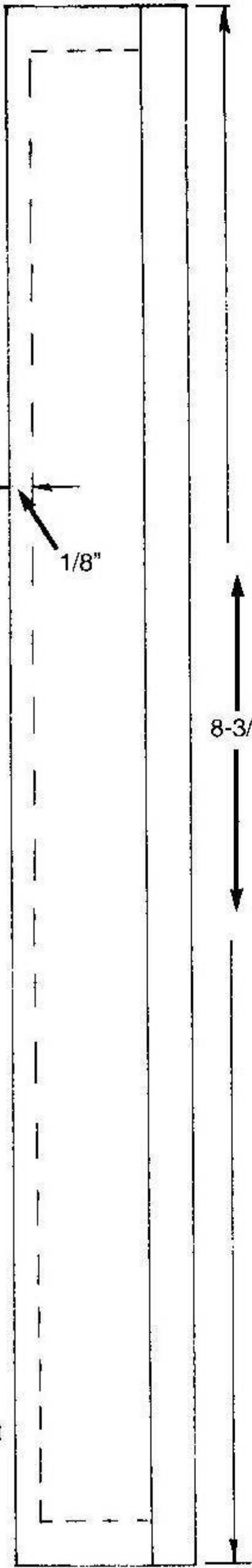
**Paper Clip Box**

End View



Side View

Lid

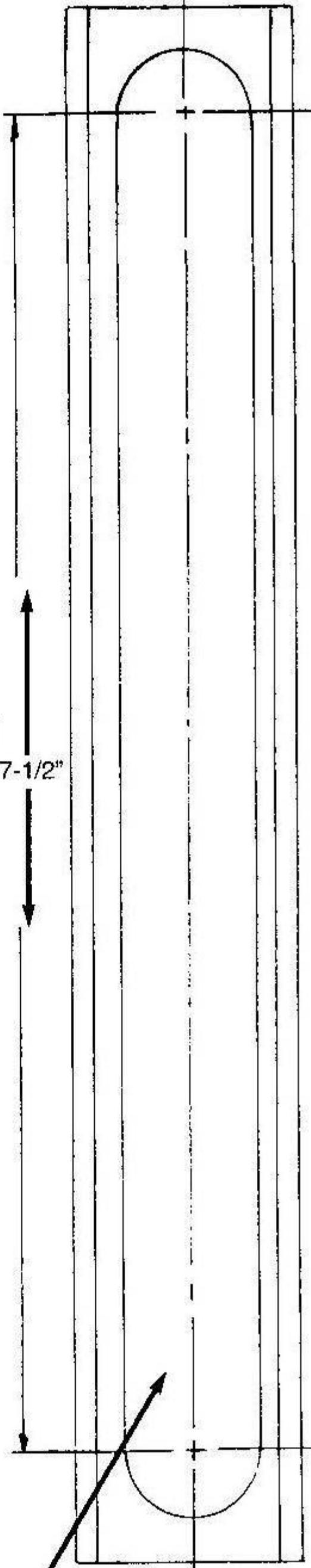


1/8"

8-3/4"

7-1/2"

5/8"

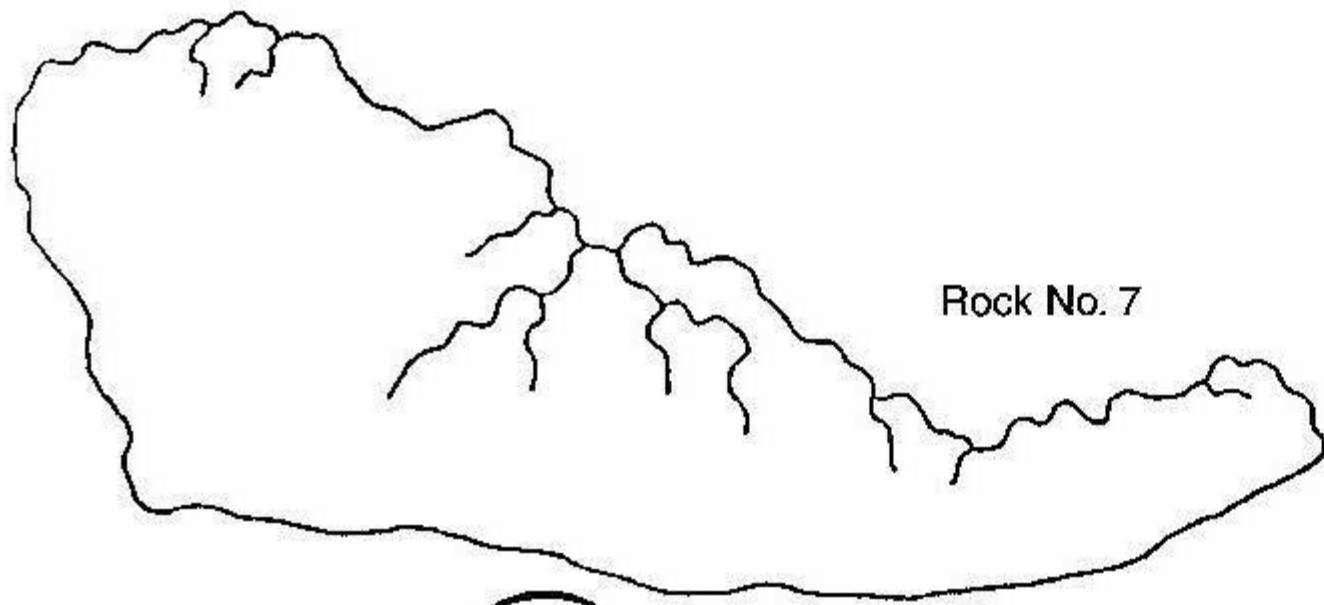


Box Compartment

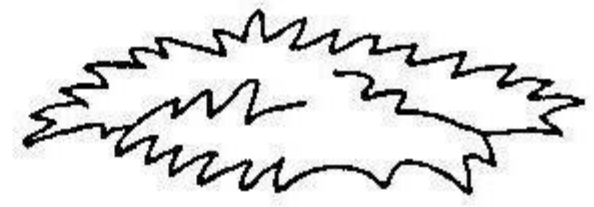
Top View (shown without lid)

Pencil Box

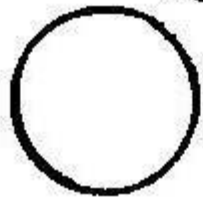
**Full Size Patterns**  
**Running Elk Plaque**  
from page 56



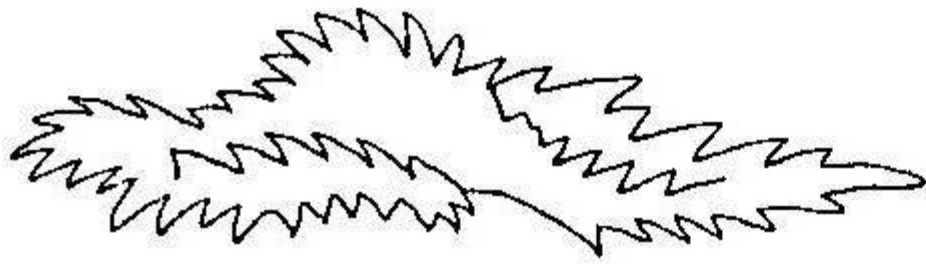
Rock No. 7



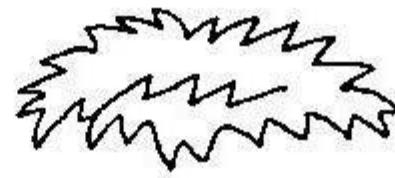
Grass No. 8



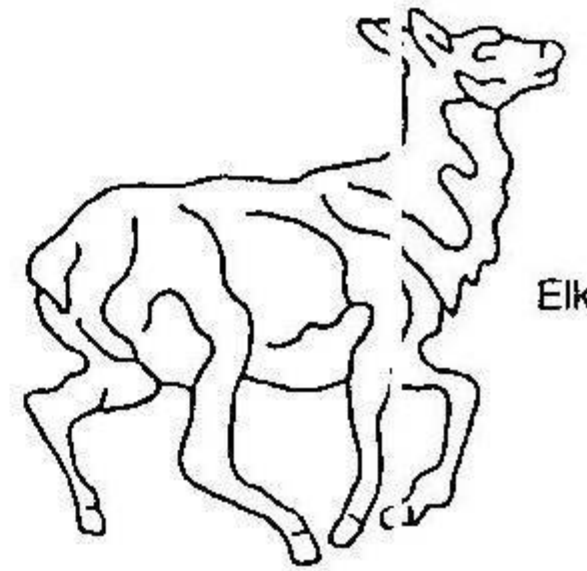
No. 7 Spacer



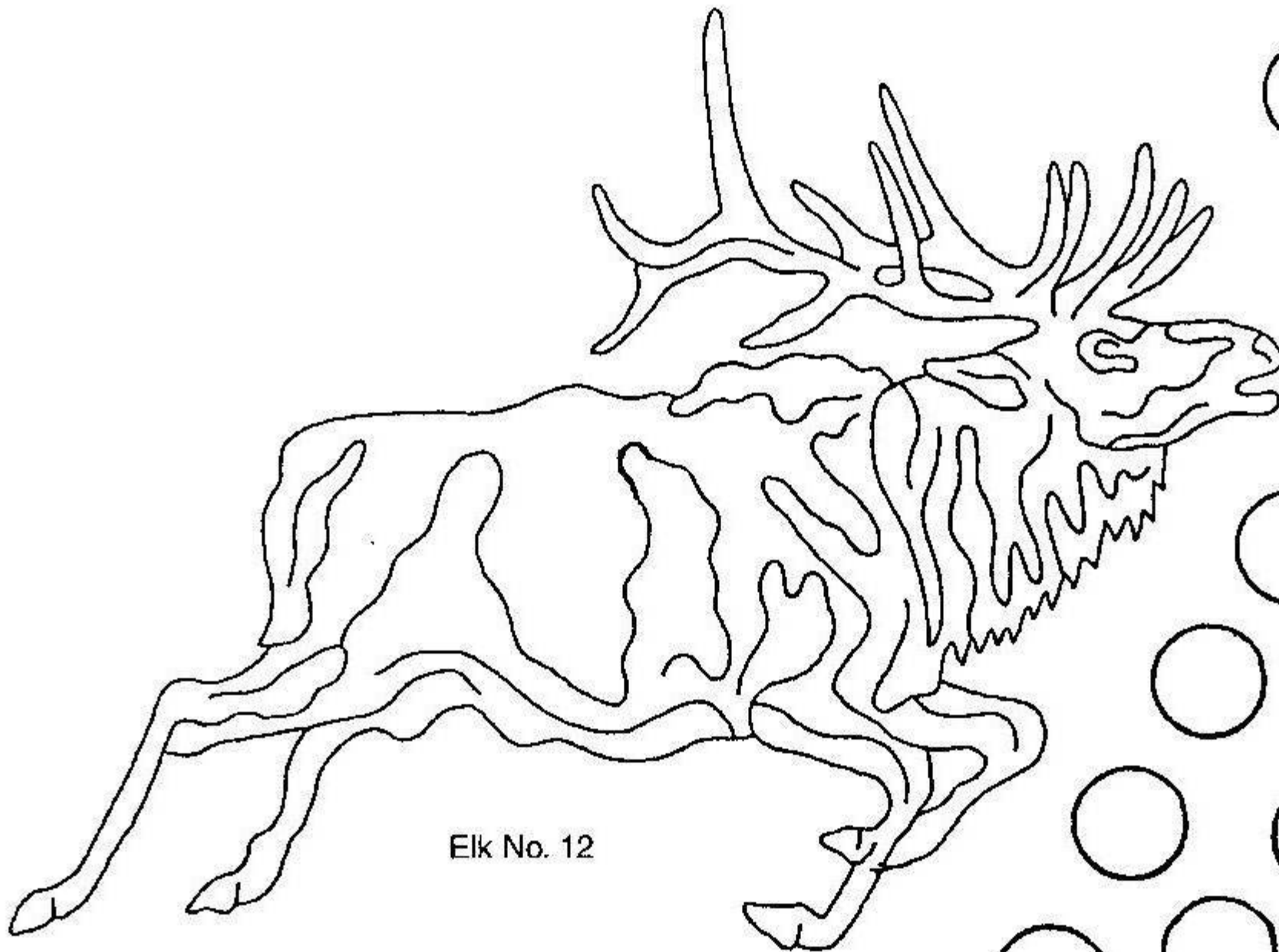
Grass No. 9



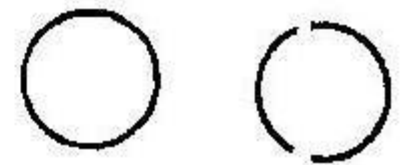
Grass No. 10



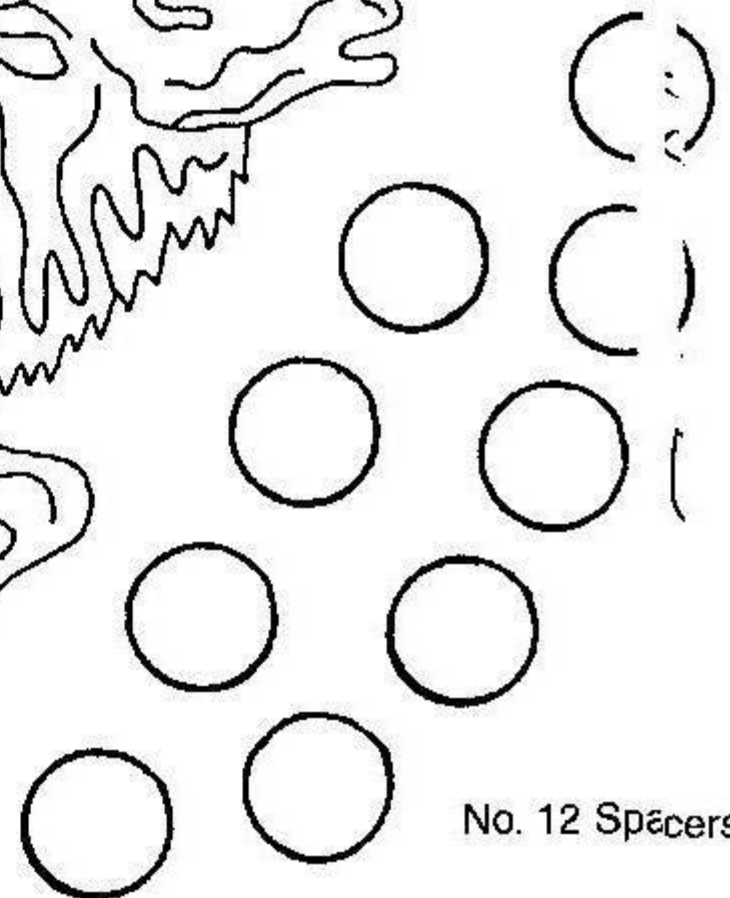
Elk No. 11



Elk No. 12



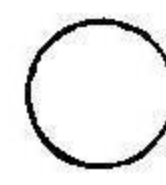
No. 11 Spacers



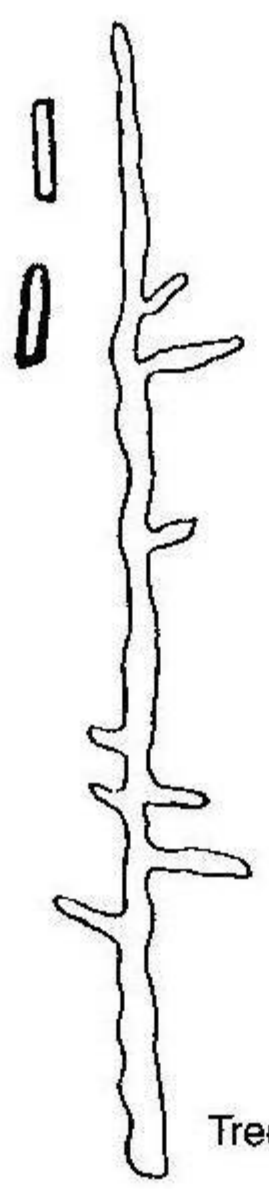
No. 12 Spacers

Tree No. 5

No. 6 Spacers

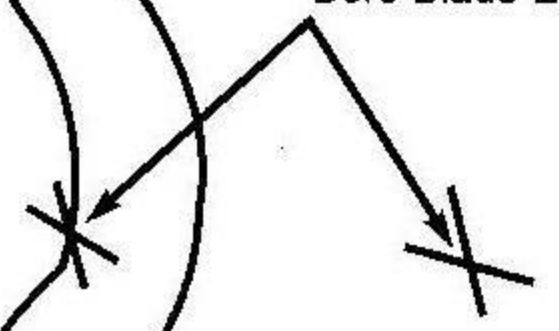


No. 1 Spacers

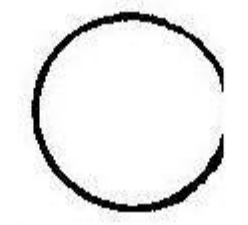


Tree No. 1

Bore Blade Entry Holes

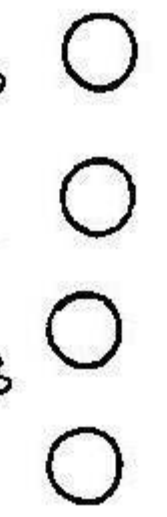


No. 2 Spacer

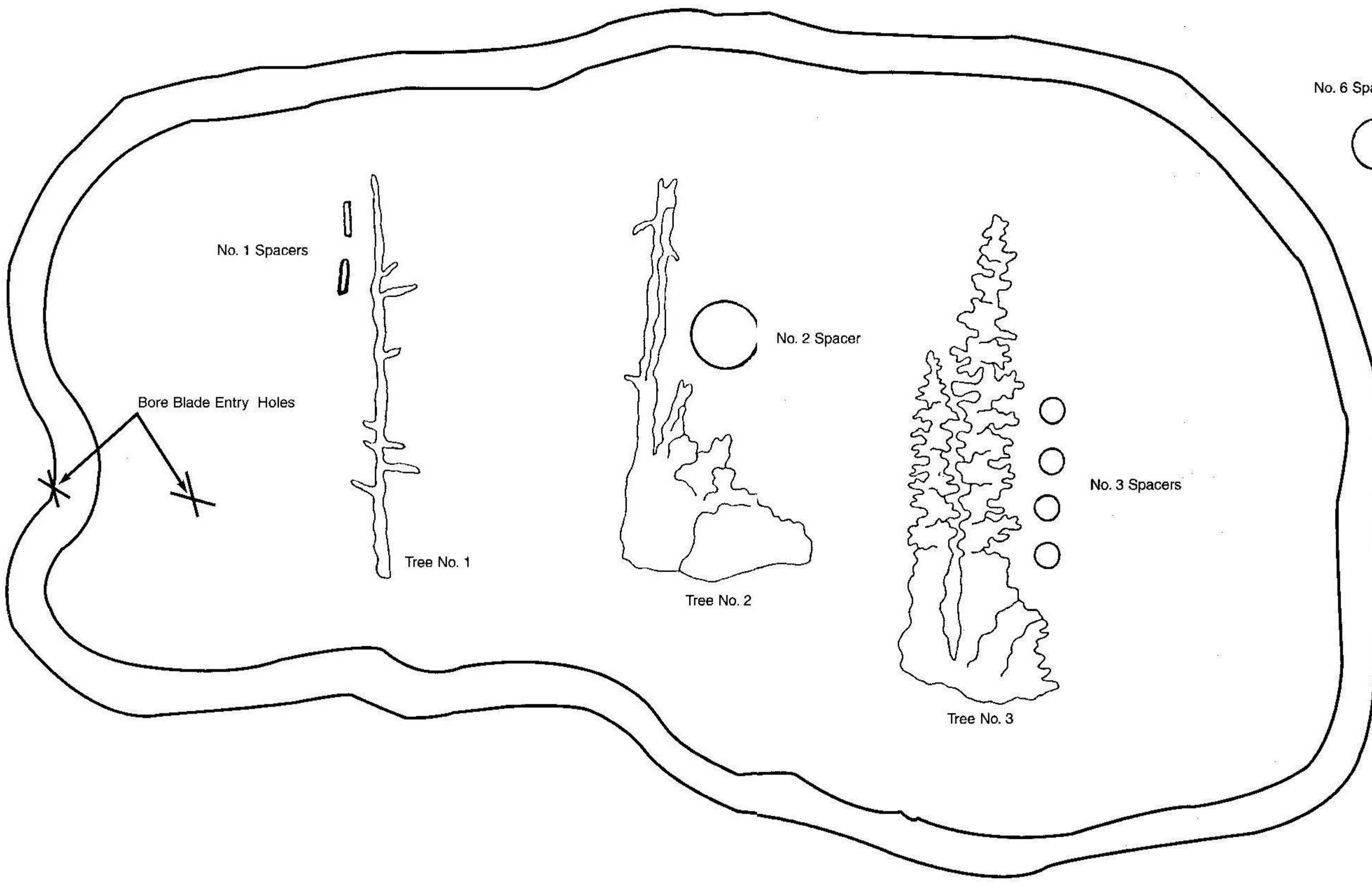


Tree No. 2

No. 3 Spacers



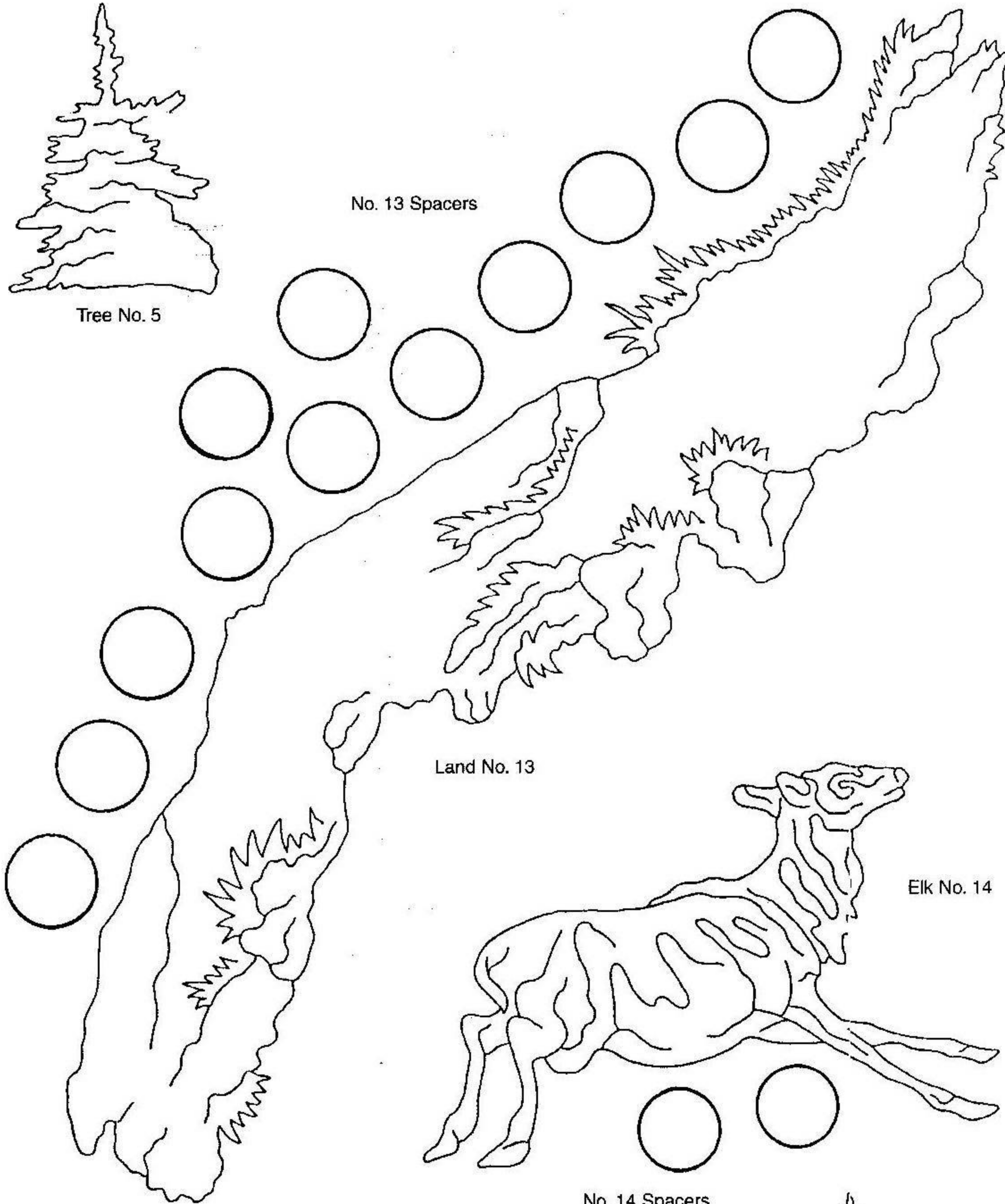
Tree No. 3



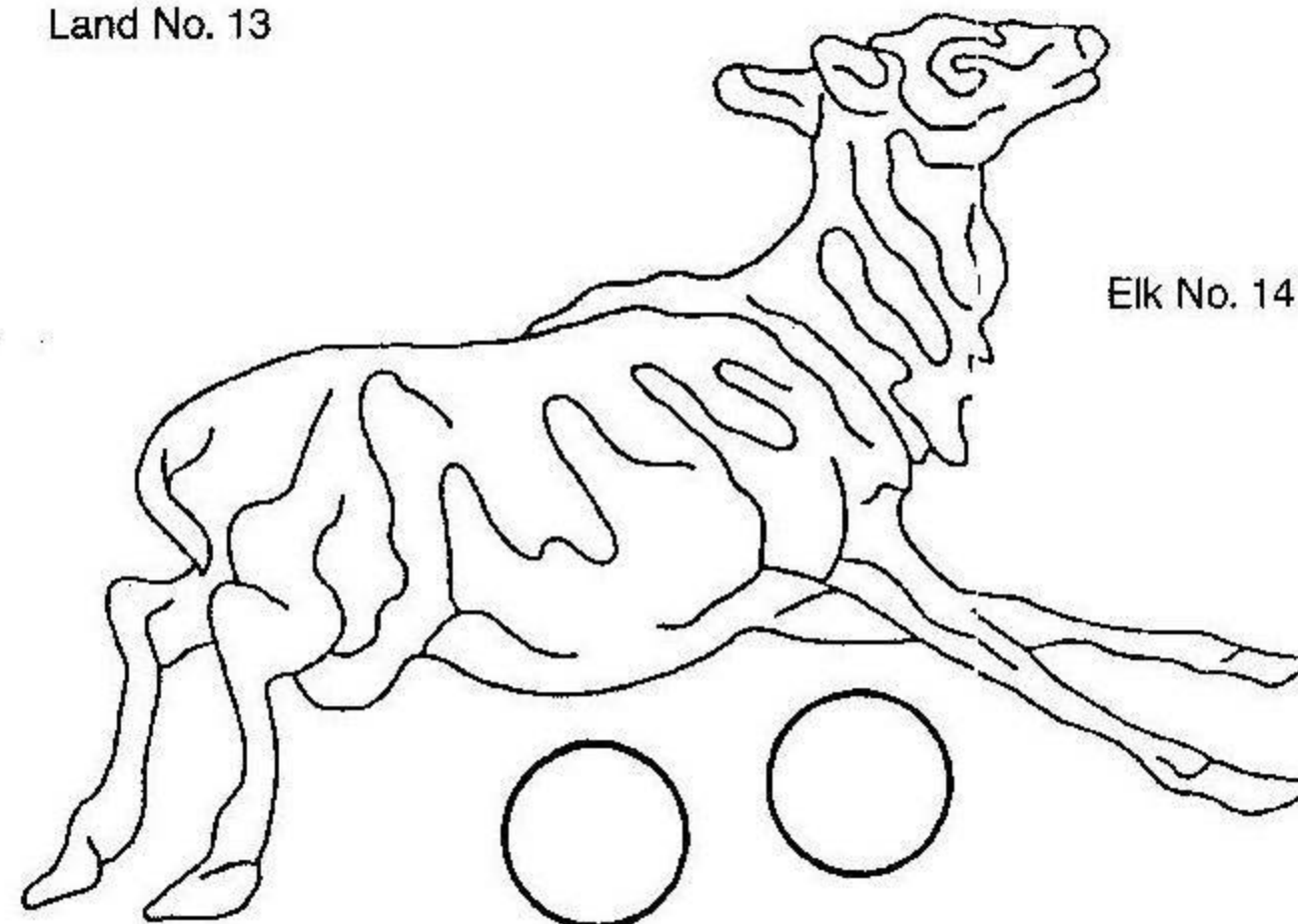


Tree No. 5

No. 13 Spacers

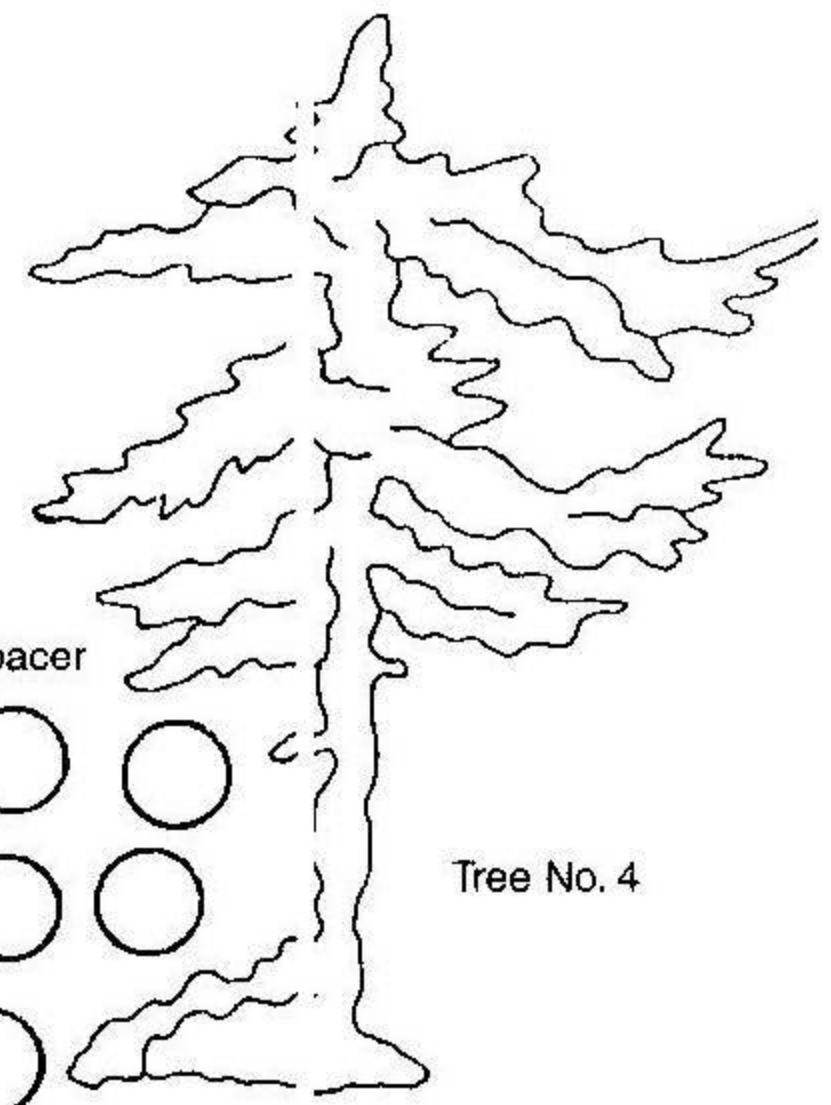


Land No. 13



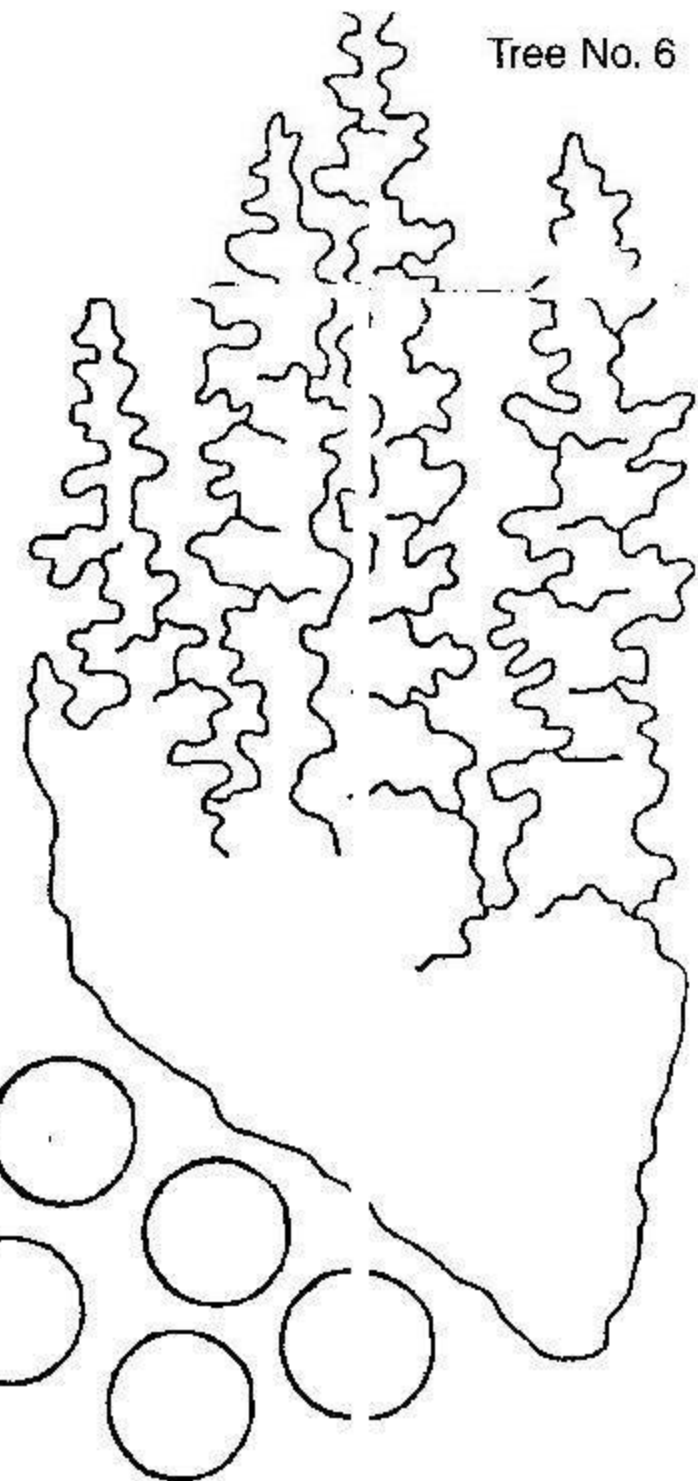
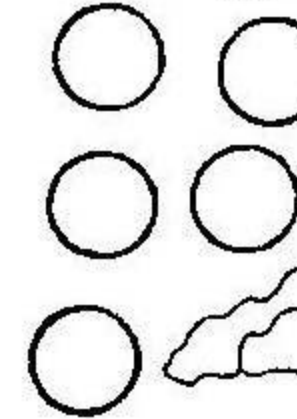
Elk No. 14

No. 14 Spacers



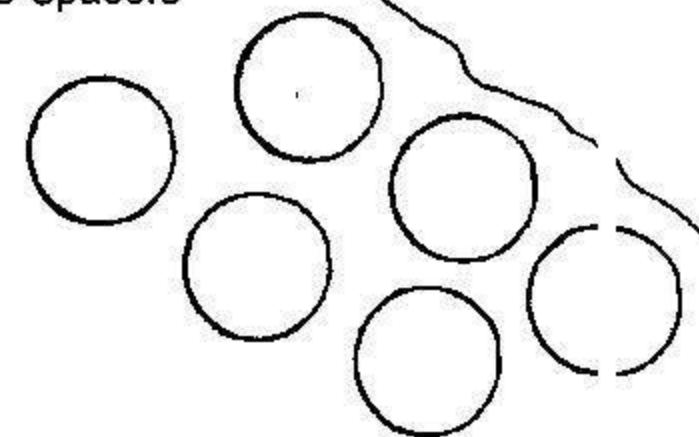
Tree No. 4

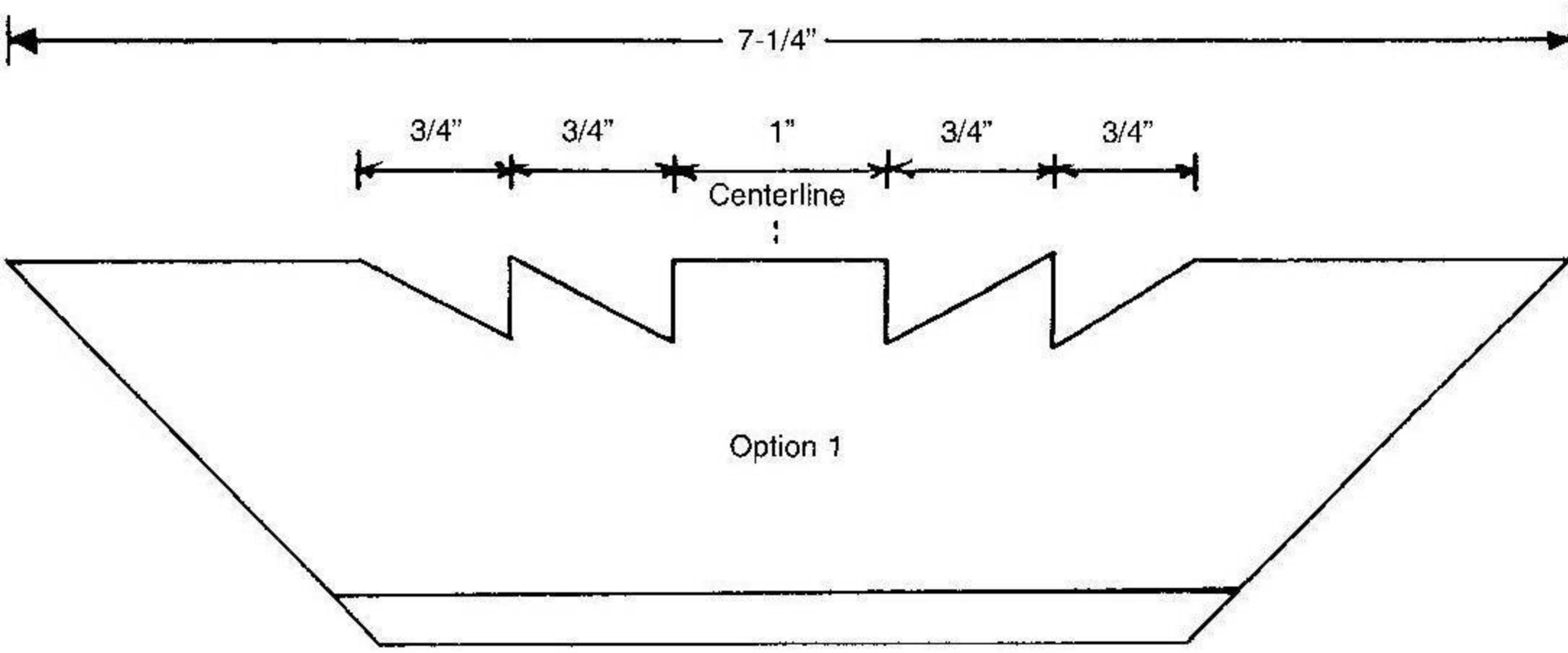
No. 4 Spacer



Tree No. 6

No. 6 Spacers

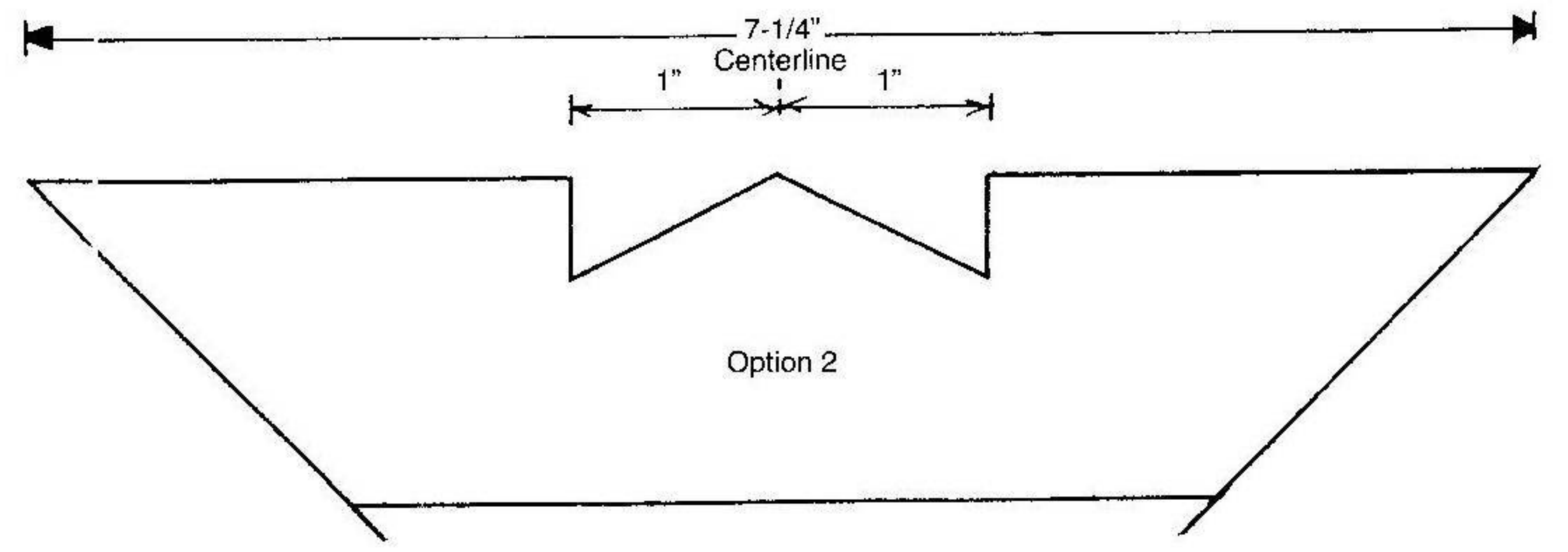




**Full Size Patterns  
Santa Fe Trivets**

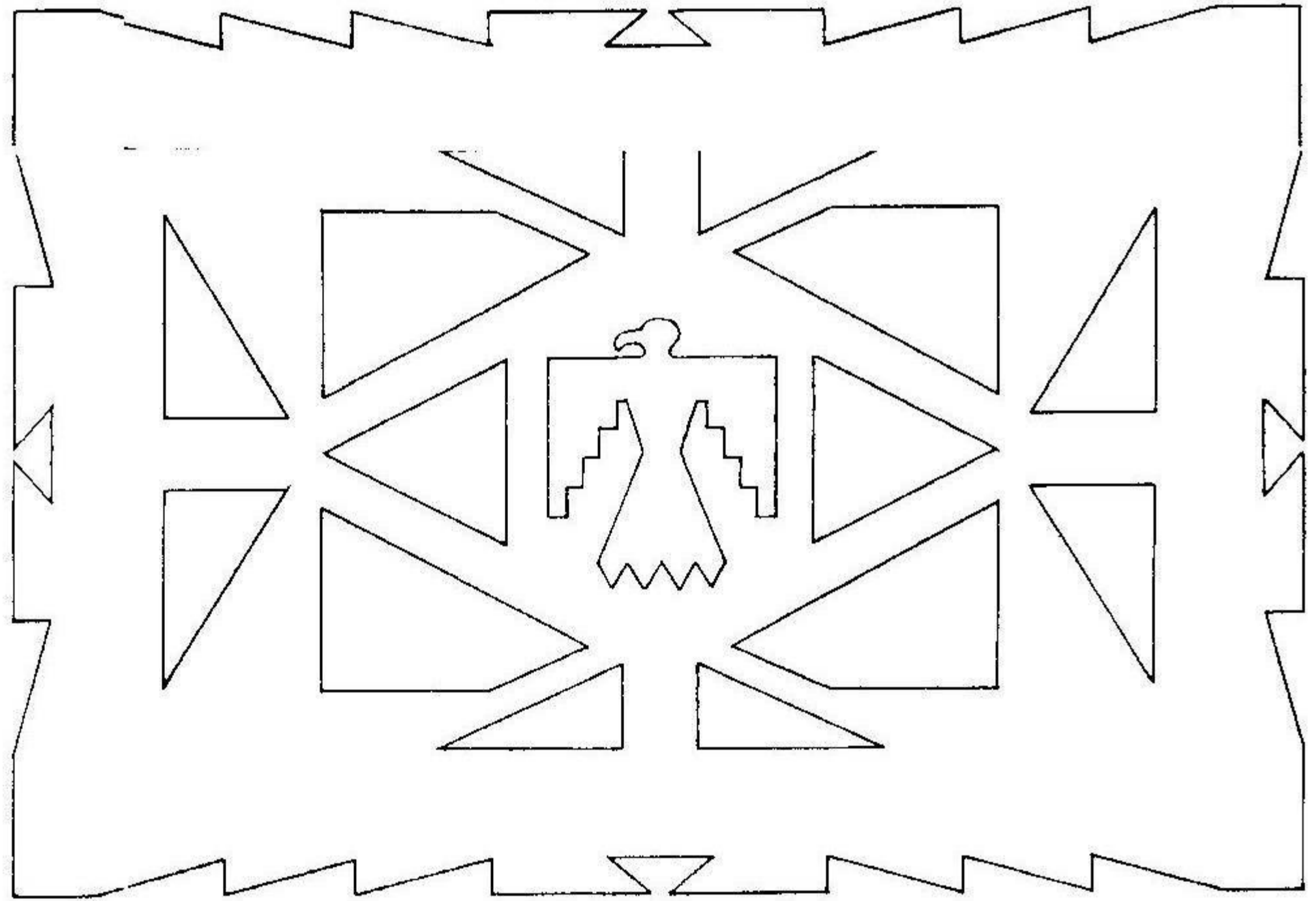
from page 25  
make each from 3/4" x 1-3/4" x 7-1/4" stock

Shown are the five steps for sawing  
an inside corner of less than 90°

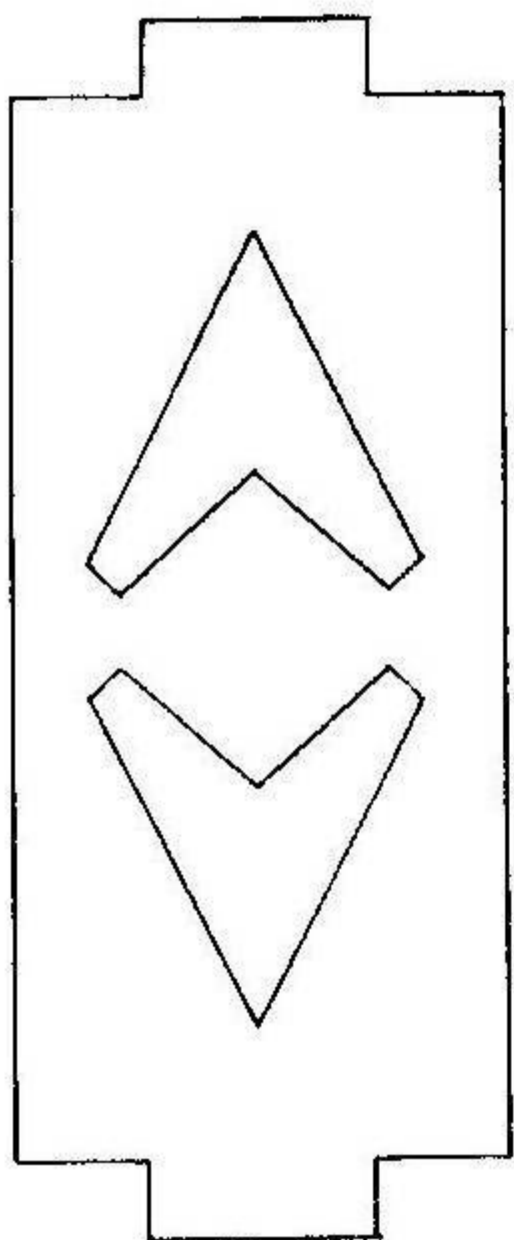


**Full Size Patterns**  
**Thunderbird Box**  
from page 6

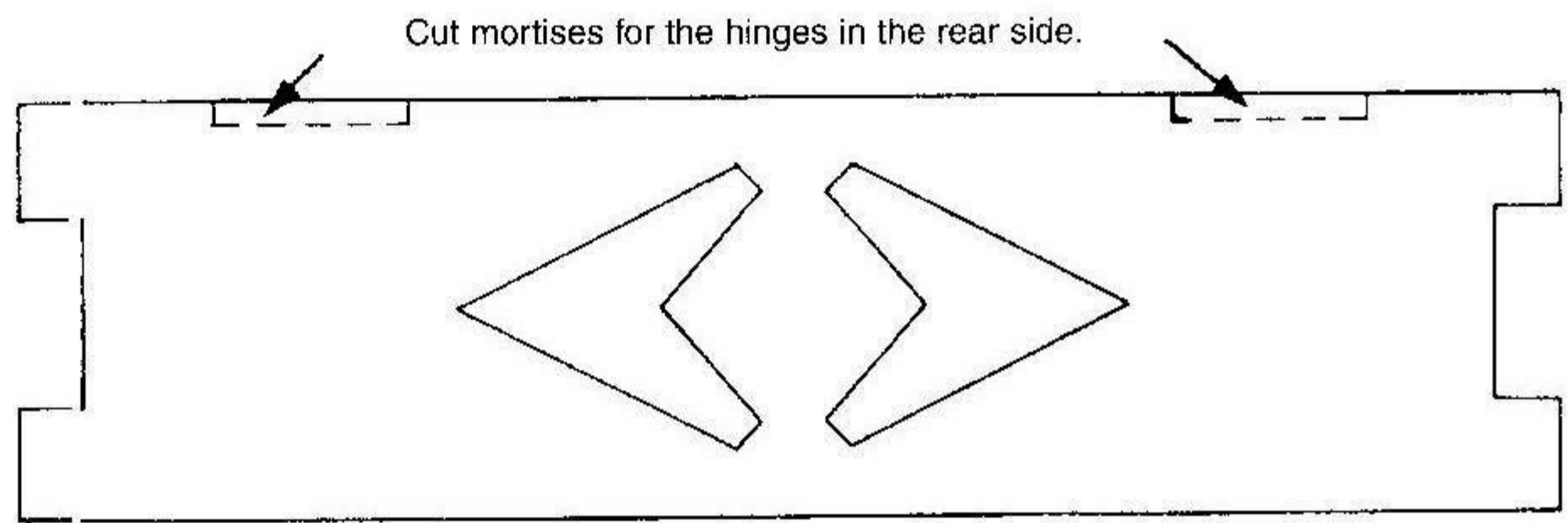
**Lid (D) and Bottom (C)**—make two from  
 $1/4" \times 4-5/8" \times 6-5/8"$  stock



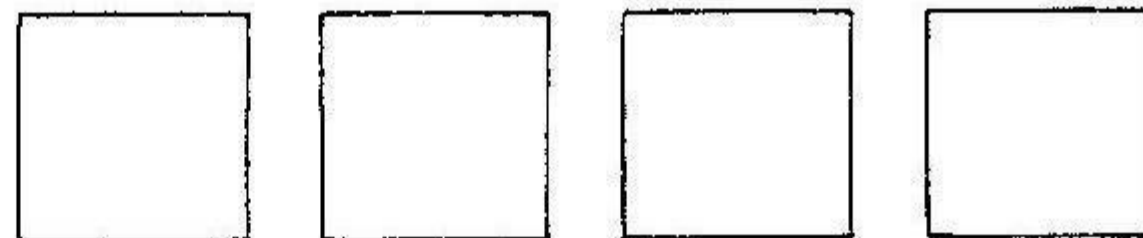
**Note:** for the bottom piece, make the exterior cut only. The lid requires all interior cuts shown.



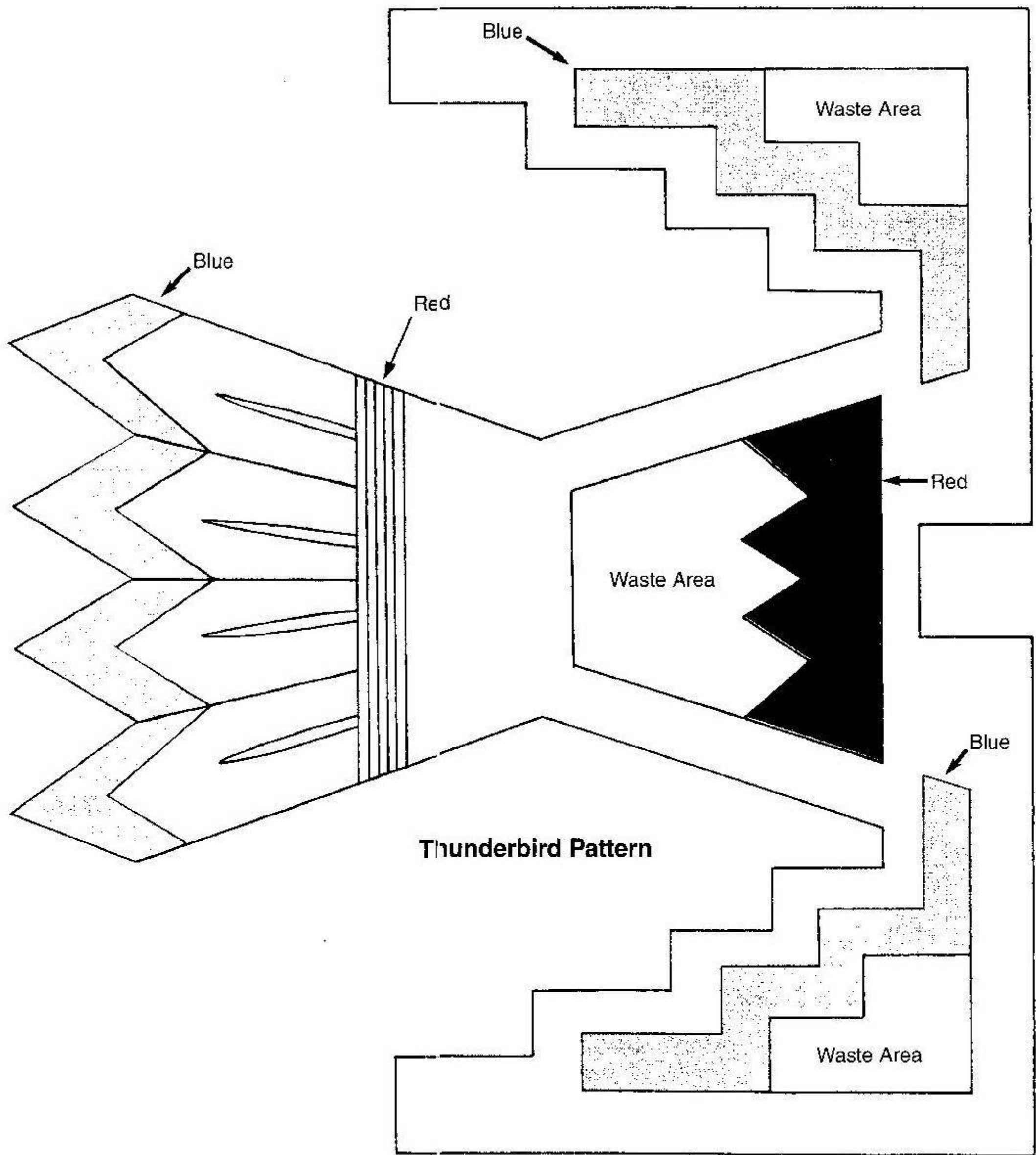
**End (B)**—make two  
from  $1/4" \times 1-3/4" \times 4"$   
stock



**Side (A)**—make two from  $1/4" \times 1-3/4" \times 6-1/8"$  stock

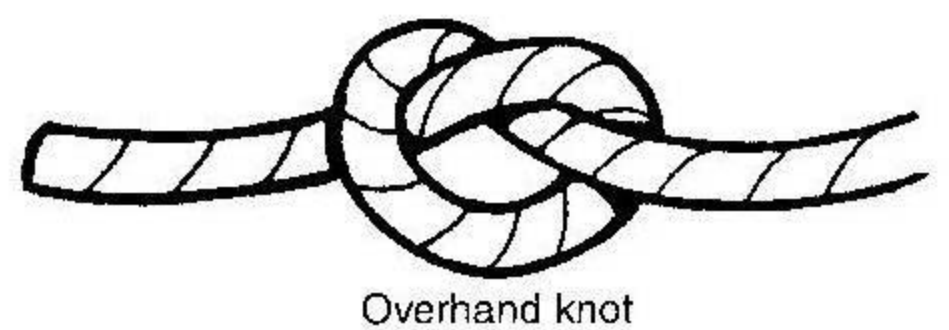
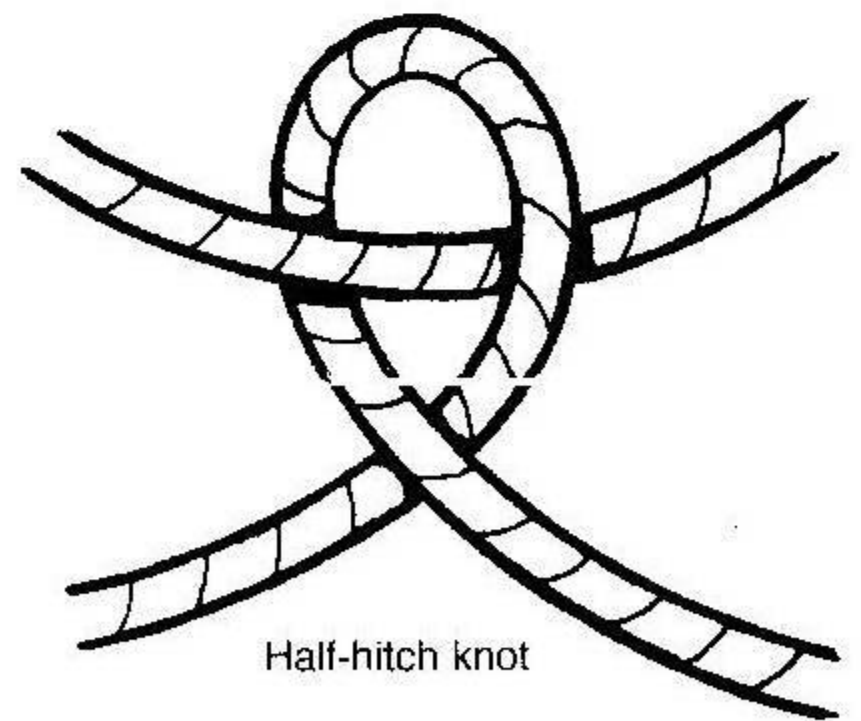
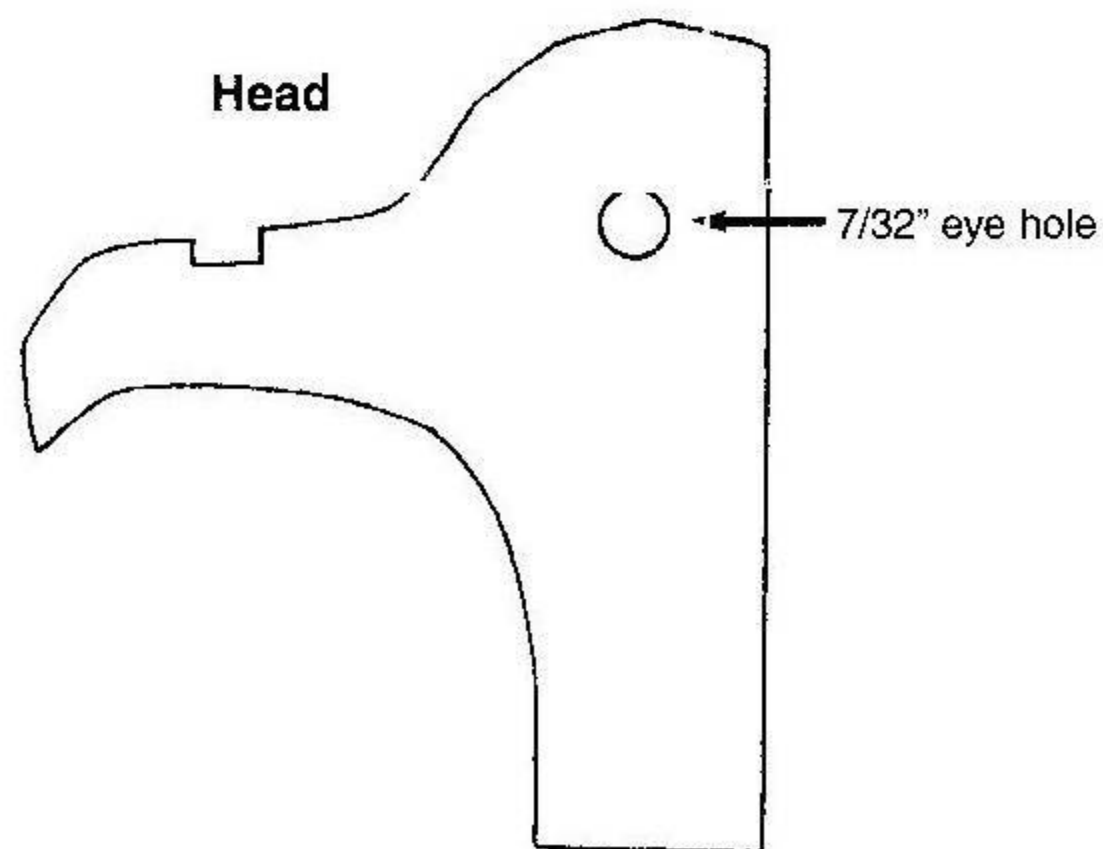


**Feet (E)**—make four from  $1/4" \times 3/4" \times 3/4"$  stock



**Full Size Patterns  
Thunderbird Dream Catcher**

from page 72  
Additional patterns on reverse side

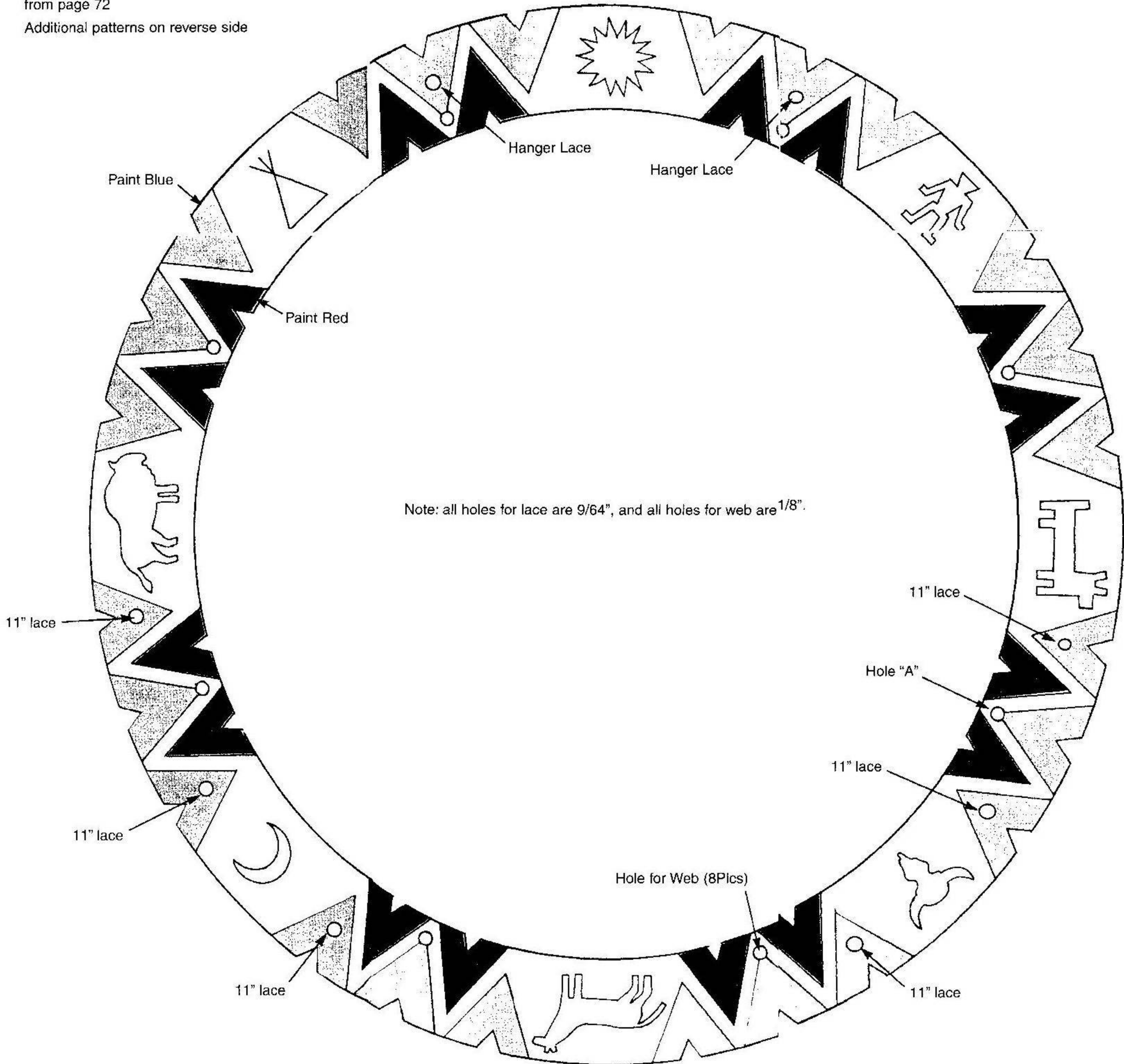


**Full Size Patterns**  
**Thunderbird Dream Catcher**

from page 72

Additional patterns on reverse side

**Dream Catcher Pattern**



# Full Size Patterns Wood Suncatchers

from page 14

