NOTICE

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1) the purchaser has acquired the right to build or construct the object or project set out in the Plan (the "Project") for his/her/its personal use only and not for any commercial use,
2) reproduction of the Plan in whole or in part by any means whatsoever is strictly prohibited.
3) Blueprints For The Handyman shall not be liable for any willful misuse or negligent use of this plan, the Project or any tools used to construct the Project or for any loss or damage resulting therefrom."

NOTE: ***Read all directions before beginning***
Carpenter's glue should be used to reinforce all joints
Dimensions shown in brackets denote millimeters
Set all nails and countersink all screws

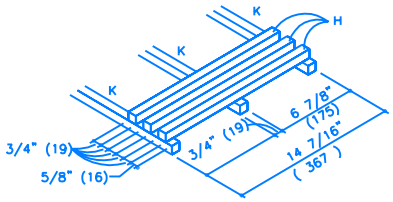
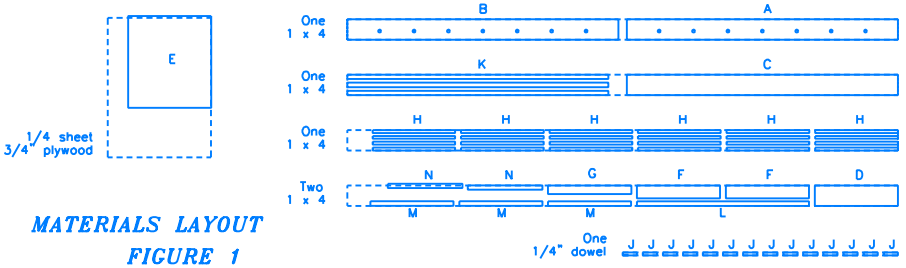
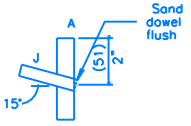


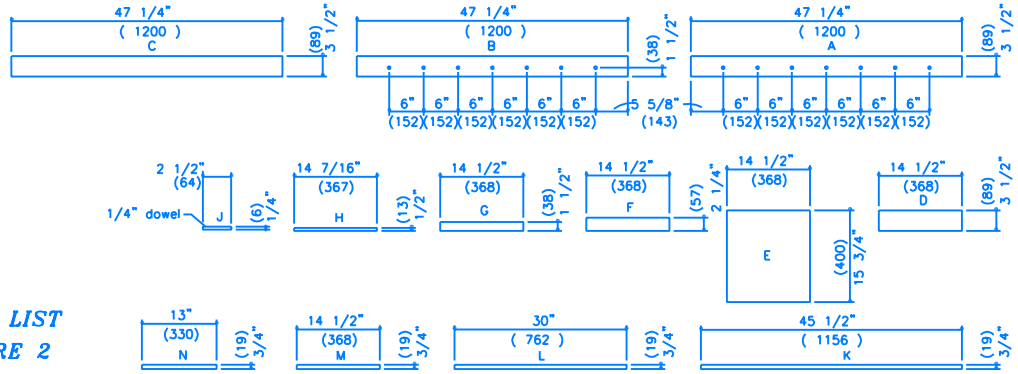
FIGURE 5



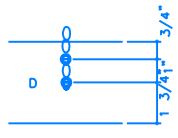
MATERIALS LAYOUT
FIGURE 1



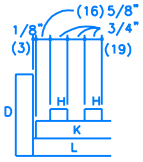
DOWEL DETAIL
FIGURE 3



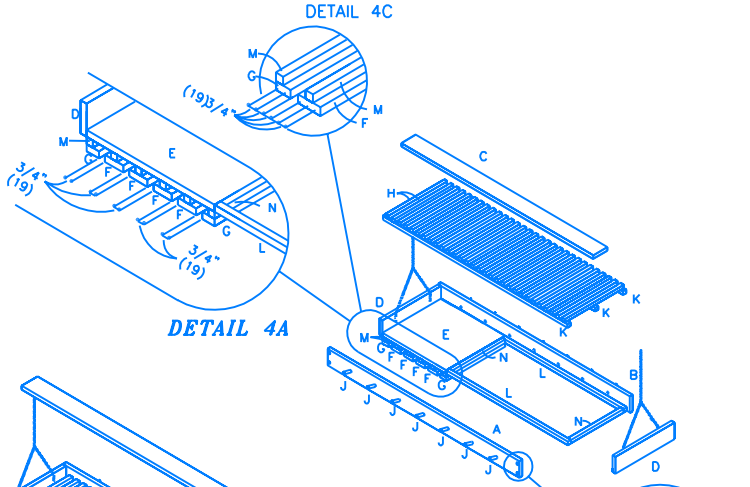
CUTTING LIST
FIGURE 2



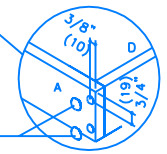
CHAIN DETAIL
FIGURE 7



SLAT DETAIL
FIGURE 6



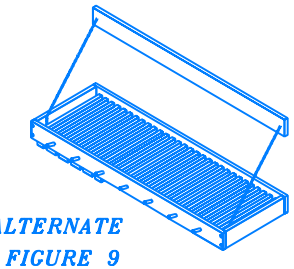
DETAIL 4A



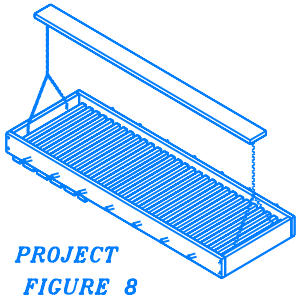
3/8" WOOD BUTTONS

DETAIL 4B

EXPLODED VIEW
FIGURE 4



ALTERNATE
FIGURE 9



COMPLETED PROJECT
FIGURE 8

Directions

1) Lay out your material as outlined in the suggested materials layout (Fig 1). Draw out all parts exactly as illustrated in the cutting diagram (Fig 2), including the letter designations, in pencil. Ensure to leave a small space between cut lines to allow for the width of the saw. Before cutting, double check all measurements to ensure that they are correct. Always cut on the waste side of the line. Wipe any excess glue off at each stage of the project. Drill seven 1/4" holes in pieces A and B as shown in (Fig 2) at a 15 degree angle as shown in (Fig 3). Glue one end of each piece J and force into the holes in pieces A and B. Sand the tip of each piece J so that it is flush with the inside of piece A and piece B see (Fig 3). Note: If you intend to wall mount the unit do not drill piece B and seven of piece J are not used.

2) Drill two 1/8" holes in the ends of pieces A and B, see (Detail 4B). Countersink these holes with a 3/8" bit to a depth of 3/8". Place pieces D between pieces A and B and drill through the holes in pieces A and B into pieces D, using a 1/16" bit to a depth of about 1 1/2" into D. Glue ends of pieces D and screw pieces A and B to D using eight 2" #8 flathead screws, two each corner. Glue the 3/8" wooden buttons in the holes.

3) Drill three 1/16" pilot holes through the side edge of the six pieces M. Glue and nail two pieces M to two pieces G as shown in (Detail 4A), so that the edge of piece M and piece G and the ends of piece M and G are flush using 1 1/4" finishing nails. Glue and center the other four pieces M on pieces F and nail through pieces M into pieces F using 1 1/4" finishing nails, see (Detail 4A). Lay out MF and MG assemblies on E. Locate centers of assemblies and drill through top of E three 1/16" pilot holes for each M, evenly spaced along width of E. Glue the top edges of the two MG assemblies and nail piece E with 1 1/4" finishing nails to the MG assemblies through the pilot holes ensuring that the ends and egdes are flush to the edges of piece E (Detail 4A). Glue the tops of the MF assemblies and nail pieces E to the MF assemblies using 1 1/4" finishing nails. Locate the EGFM assembly inside one end of ABD assembly, see (Fig 4), with the bottom of E flush with the bottoms of pieces A, B and D. Drill two 1/16" pilot holes through A and B into the center of each end of piece E and two through piece D into the center of the edge of piece E. Glue all four edges of piece E and nail pieces A, B and D to piece E, using 1 1/2" finishing nails. Drill five 1/16" pilot holes through and along the center of the side edge of each piece L. Glue and nail pieces L to pieces A and B, ensuring that the bottoms of pieces L are flush with the bottoms of pieces A or B, using 1 1/4" finishing nails. Nail pieces N into D and E and between pieces L, in the same manner as L with 1 1/4" finishing nails. Set all nails on AB assembly with a nail set.

4) Drill a 1/16" pilot hole located 3/8" in from each end and in the center of each piece H, through each piece H. Layout the three pieces K on a flat surface as shown in (Fig 5). Place piece H on pieces K, 5/8" in from the end of pieces K. Nail piece H to pieces K using 1 1/4" finishing nails. See (Fig 6). KH assembly will eventually sit inside ABDE assembly nailing pieces H to pieces K with a 3/4" space between each piece H until all pieces H are used. This will look like the assembly in (Fig 4). Drill two 1/8" holes using a 1/8" bit on the inside face of each end of each pieces D as shown in (Fig 7). Assemble the chain as shown in (Fig 7) and attach to pieces D using eight 3/4" #8 Flathead screws, four per piece D. Locate your ceiling joists and attach C to ceiling with 3" #8 Flathead screws. Be careful you do not screw through any wiring hidden in ceiling. Attach the chain to the center of the lower face of piece C, 1" in from each end of piece C. Pre-drill and screw in two 1/2" eye's in each end of C and attach the chain.

5) Set all nails in KH assembly, sand the entire project and stain the project to manufacturer's instructions and allow to dry. Fill all exposed nail and screw holes, with filler mixed with stain to match dry stained project, or coloured putty. Apply final finish using manufacturer's instructions.

On materials:

You may choose the type of wood that will best suit your needs but ensure that there are no knots in the wood.

POT & PAN RACK – Project #109

MATERIALS LIST

Eight 3/8" wood buttons
Five 8' 1x4 (3/4"x3 1/2")
Approx. 1 lb. 1 1/4" finishing nails
4' of 1/4" dowel
Approx. Ten 2" flathead screws
Approx. Ten 3/4" flathead screws
Sandpaper

MATERIALS LIST

Carpenters glue
Wood filler
Stain
One piece 14 1/2"x15 3/4"x3/4" plywood
Two 1/2" diameter eyes with 3/4" thread
Six 1 1/2" finishing nails
Three 3" #8 flathead screws
A 6' length light chain

TOOLS

Table Saw and Jigsaw
Pencil and Measuring Tape
Power or Hand Drill
1/16", 1/8", 1/4", 3/8" drill bits
Hammer and Screwdrivers
Square and Nail Set
Plane and Putty Knife