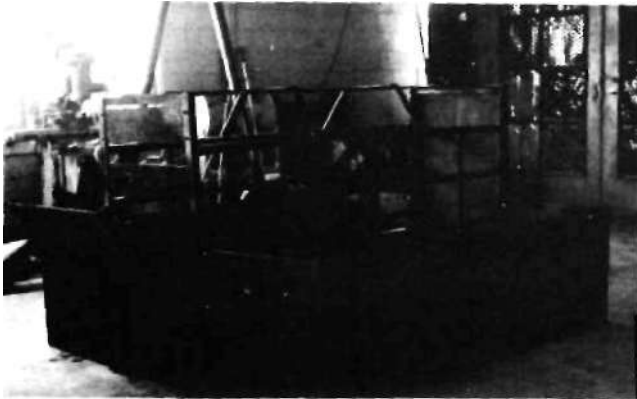


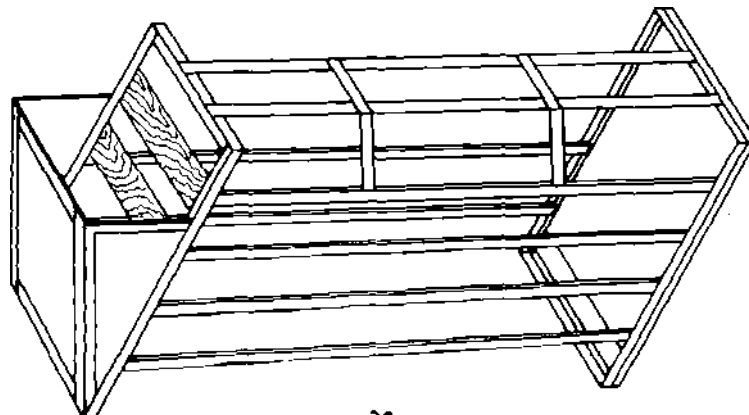
# Farrowing Crate

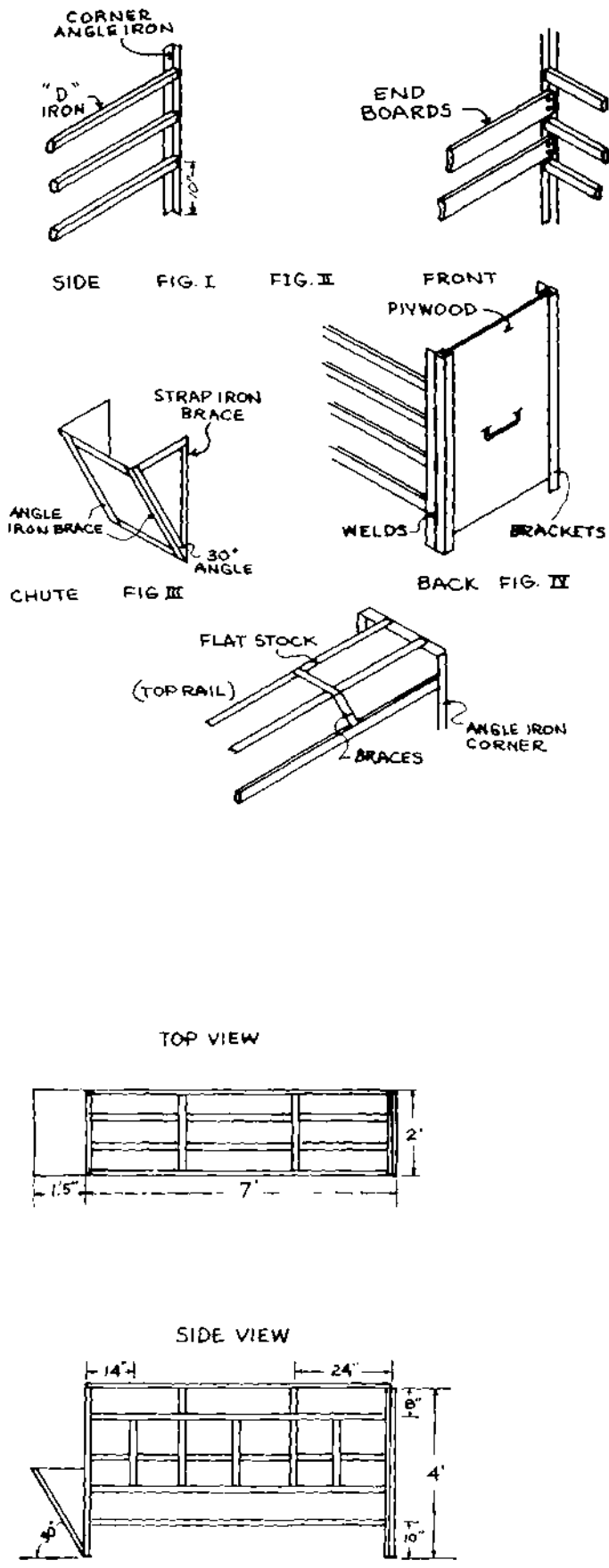
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 City & State: Roshott, WI



## Materials Used:

Name	Quant.	Size	Material
Feed chute slide	1	24" x 30"	16 gauge sheet metal
Feed chute sides	2	16" x 30"	16 gauge sheet metal
Feed slide braces (corners)	2	1/8" x 1 1/4" x 1 1/4" x 30"	angle iron
Feed chute slide reinforce	2	1/8" x 1" x 21 1/2"	flat stock
Feed chute braces	2	1/8" x 1" x 30"	flat stock
Main body corner irons	4	1/8" x 1 1/2" x 1 1/2" x 48"	angle iron
Front boards	4	1" x 5" x 24"	oak
Angle iron braces	4	1/8" x 1 1/2" x 1 1/2" x 24"	angle iron
Back door	1	3/4" x 23" x 40"	plywood
Side rails	8	1" x 1 1/2" x 84" by 14 gauge	rectangular tubing
Side braces	10	1" x 1 1/2" x 18" by 14 gauge	rectangular tubing
Top rails	2	1/4" x 1 1/4" x 84"	flat stock
Top braces	2	1/4" x 1 1/4" x 28"	flat stock
Door track irons	2	1/8" x 1 1/4" x 1 1/4" x 48"	angle iron
Doorhandles	2	5"	light metal
Creep ends	4	1/2" x 24" x 24"	plywood
Creep sides	2	1/2" x 24" x 84"	plywood
Creep corner braces	4	1/8" x 1 1/4" x 1 1/4" x 22"	angle iron
Creep side, bottom brace	2	1/8" x 1 1/4" x 1 1/4" x 81 1/2"	angle iron
Creep end, bottom brace	4	1/8" x 1 1/4" x 1 1/4" x 24"	angle iron
Creep connecting brackets	4	1/8" x 1" x 1" x 24"	angle iron
Stove bolts and nuts	56	1/4" x 1"	metal
Carriage bolts and nuts	16	1/4" x 1/4"	metal





**Sides**—To make the sides use 7 foot lengths of rectangular tubing and 4 foot lengths of angle iron. Weld the tubing horizontally to the angle iron. Place the bottom rail 10" from the floor and space the remaining rails 10" apart.

**Front**—For the front use 4 1 x 5 x 24" oak boards and bolt them to the main body angle iron corners with 1/2" x 1 1/2" carriage bolts. Weld 2 pieces of 1/2" x 1 1/2" x 24" angle iron on the top and bottom of the front end to stabilize the body of the crate.

**Feed Chute**—To construct the feed chute use 2 pieces of 30" angle iron (feed slide braces), reinforced with 1" flat stock. For the front use a 24 x 30" piece of 16 gauge sheet metal, bolted to the angle iron supports with flat head stove bolts. For the sides use 16 gauge sheet metal cut at 30 degree angles, and bolt to the support irons. After assembling the chute, clamp it to the main body and tack weld. Remove the clamps, flip crate on its side and make many intermittent butt welds,

**The Back**—The back consists of a 23 x 40 x 3/8" plywood sliding door and two 1 1/2" x 1 1/2" x 24" angle iron end braces. Weld the 2 pieces of angle iron on the top and bottom of the main body of the crate. Butt weld intermittently the track for the sliding door, which is 2 pieces of 1 1/2" x 1 1/2" x 48" angle iron. Place the sliding door (23x40 x 3/8" plywood) in the track.

**Piglet Creeps**—Weld the bottom brace, creep side (1 1/2" x 1 1/2" x 81 1/2" angle iron) to the bottom brace creep side (1 1/2" x 1 1/2" x 22"). At the welded corner, place a piece of 1 1/2" x 1 1/2" x 24" angle iron vertically and weld to bottom frame, Weld 1 x 1 x 24" connecting brackets to each end so there is a way of fastening plywood to the main gate so it can be disassembled. Using 8 carriage bolts per side, bolt 1/2" x 24 x 84" plywood to long side and 1/2" x 24 x 24" plywood to short side.

**Top**—Weld 2 evenly placed top rails (1/2" x 1 1/2" x 84" flat stock) to the main body top ends. Then weld 2 top braces (evenly spaced) to the top rail and side rail to prevent the sow from jumping up.