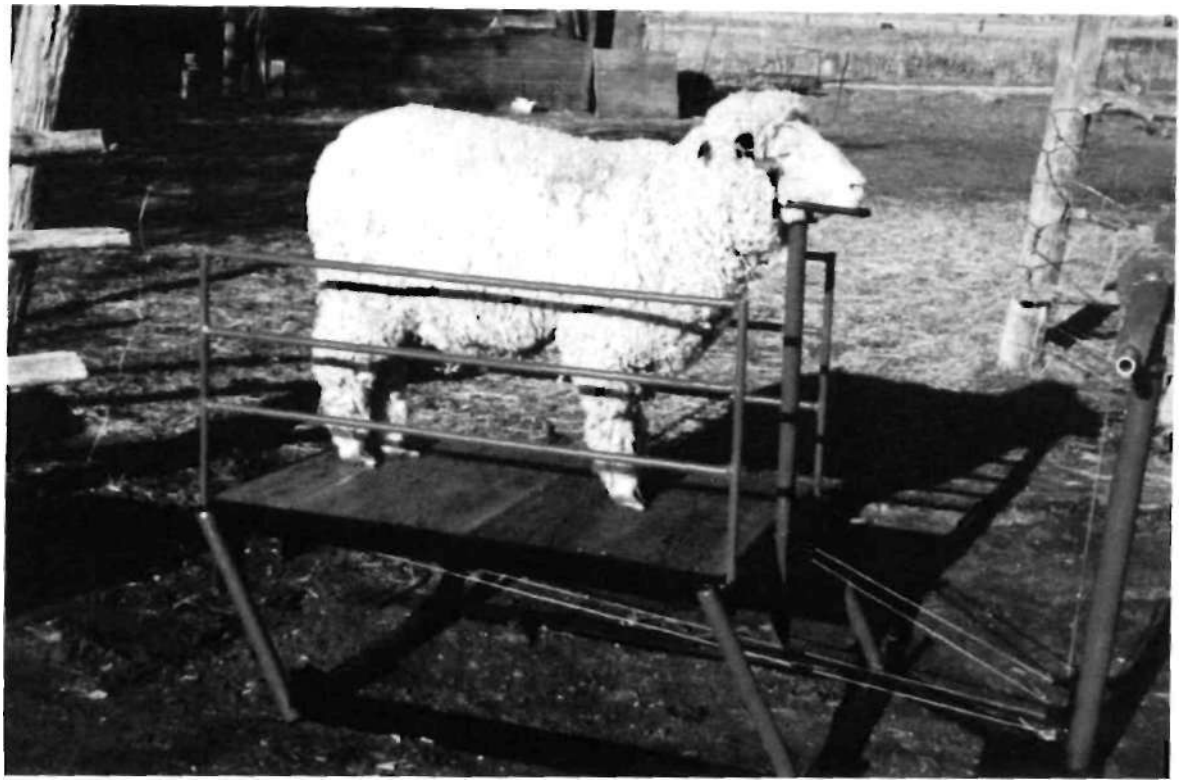
Sheep Blocking Stand



Bill of Materials

Item	Description
Railing black pipe	3/4"x 33'
Angle iron	2'x 2'x 3/16 x 9'6"
Wood (Oak)	l"x 12"x 10'
Blackpipe	l-l/2"x 12'
Blackpipe	2-1/2"x 3'
Cable	5/32"x 21'
Carriage bolts	3/16"x 1-1/2" (30)
Mild steel plate	3/4"x 9" x 6"
Sucker rod	l/2"x46"
Leather strap and buckle	l/4"x l-l/2"x28"
Black pipe leg stops	2"x 14"

Begin the frame by cutting 2" rectangles out of both ends of the angle iron. Next grind the edges smooth so the fit is perfect for the coming weld.

After squaring the angle iron, weld the angle iron together. Turn the frame over, buff the crack and finish welding the frame.

Cut out 8 sleeves for the upright legs to fit into. To make the legs fit well and move easily place grease zerks into each sleeve. The grease zerks prevent binding of the upright legs.

Drill a 1-1 /4" hole in the angle iron on each of the 4 corners, place the sleeves in the hole and arc weld them in place, making sure they are square. Grind the outside weld flat against the angle iron.

Cut four upright legs out of l-3/8"x 20" blackpipe. At each end and at right angles to this pipe weld l"x 3" blackpipe which will fit inside the previously cut and installed sleeves.

Place the four upright legs into the installed sleeves and weld a washer around the inside projecting ends.

Place the top frame into position and weld the l"x 2-1/2" sleeves to the angle iron. Install grease zerks to make the upright legs and arm move freely. Put a washer about 1/4" from the end of the sleeve and weld the washer to the arm to keep the legs from slipping.

Turn the stand over and check its travel and movement.

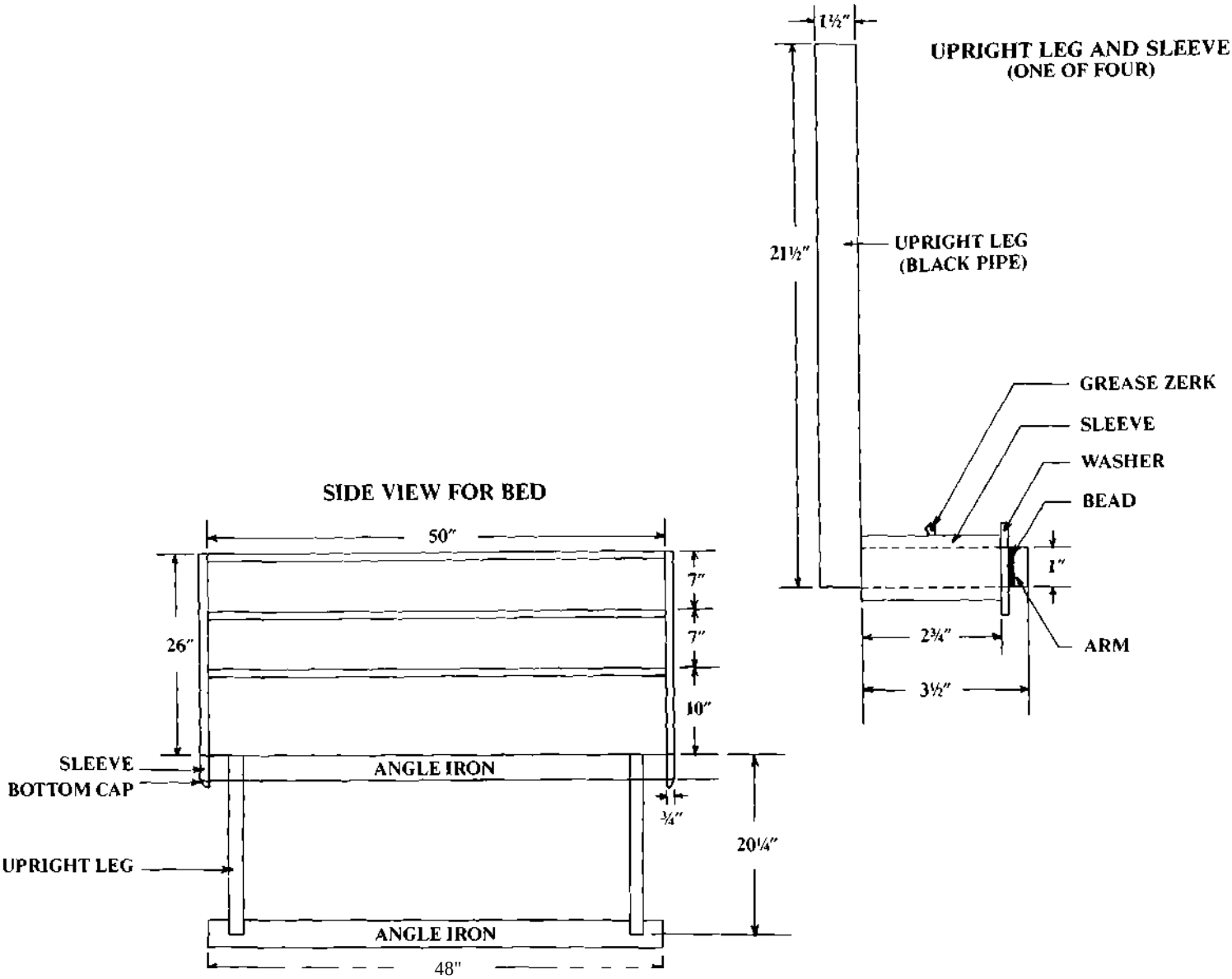
Make a stop by cutting a 2"x 4" pipe in half. Weld a triangle 6"x 3" to it to make it solid.

Install side railings to make sure the sheep can be lifted safely without injury. Place the vertical uprights in the welded sleeves, square them up and then weld the three horizontal side pipes in place. This insures easy removal of the sides, and makes a snug fit.

Make the winch from a pipe 6" in diameter x 6-1 /2" long, with a 1 /4"x 7-1 /2" round plate welded over both ends. Pass a 1" diameter by 12" long blackpipe through the center of the round plates and weld all the parts to the drum.

Put the sleeves over the l"x 12" blackpipe and add a base as shown.

The handles are made out of 1" diameter by 5" long blackpipe. The handle strap was made out of 2-1/2" width by 7" long metal. Weld the handle to the center pipe. Set the winch on a 2" diameter by 35" long blackpipe and weld the bottom of the brace to the end of the pipe.



Construct a head catch using 1/2" diameter sucker rod and bend in the shape shown. To the base of the head catch weld a pipe 2"x 33".

Add a leather strap to hold the ewe's head. The strap is 1 / 4" by 1-1 / 2" by 28". Put a buckle on it and drill holes in the leather, fastening the leather to the sucker rod with copper rivets. In order to fasten the straps to the rod, grind one side of the rod flat.

Take 4 brass pulley wheels, drill the centers to 1/4" diameter, drill the angle iron also 1/4", and insert a 1/4" steel rod through each wheel and angle iron. Spot weld the rod in place.

To keep the back of the stand from resting too low to the ground add 3-1 /4"x 6"x 9" plates. Weld a sucker rod on the bottom of each plate to blunt the ends. Space the metal and weld them in place.

Wood

Place 1 "x 12"x 30" oak wood floor on the angle iron, bolt it in place and varnish.