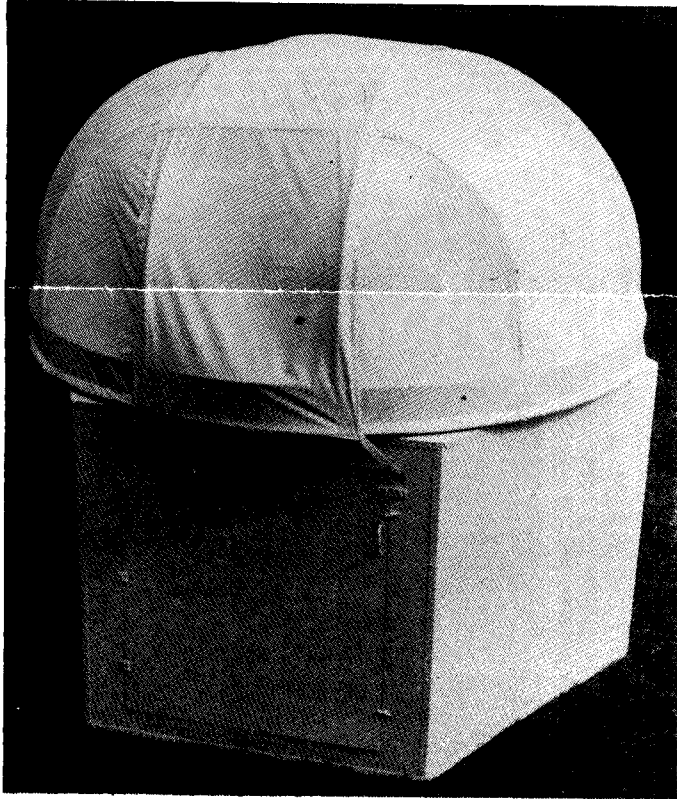


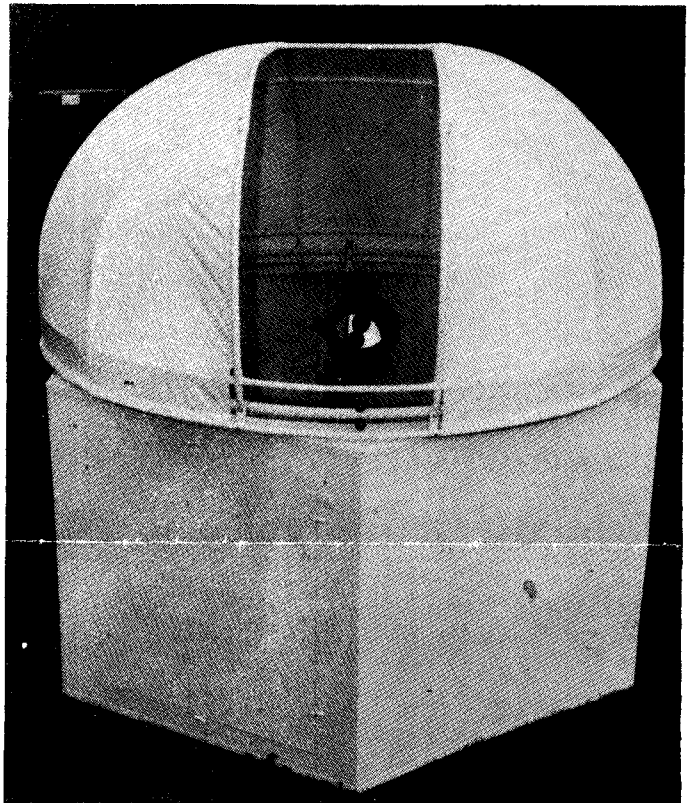
# **HEXADOME**

**THE AFFORDABLE OBSERVATORY**



- \*Quality Construction
- \*Paint-Primed and Ready For Finished Coatings  
(Photos Shown Have Finished Coating)
- \*20 Gauge Steel Reinforced Base
- \*Easy To Erect (Approx. 4 Hours)
- \*Dome Easily Removed

- \*Easy Dome Opening
- \*Dome Opening Opens Beyond Zenith
- \*Dome Will Revolve Full 360°
- \*Repels Water. Blocks Out Light
- \*Sorry! No Floor.



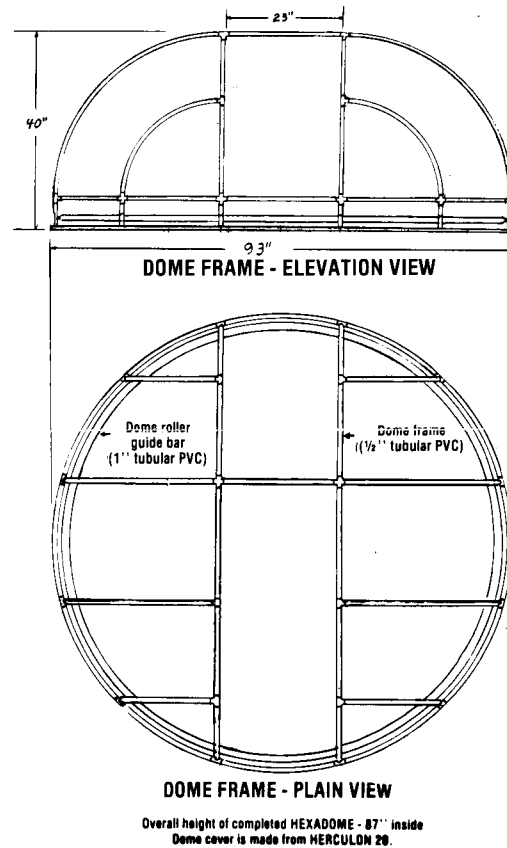
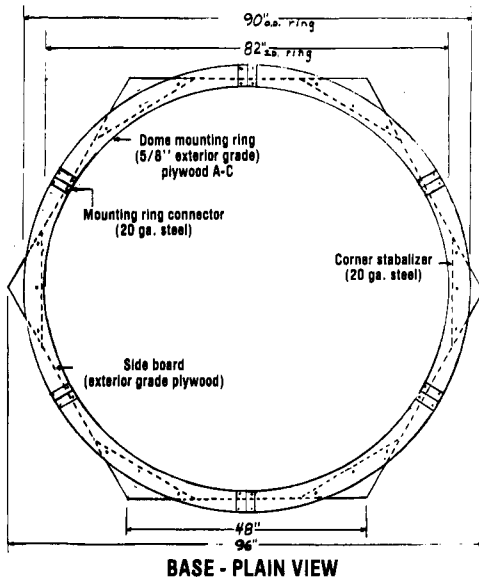
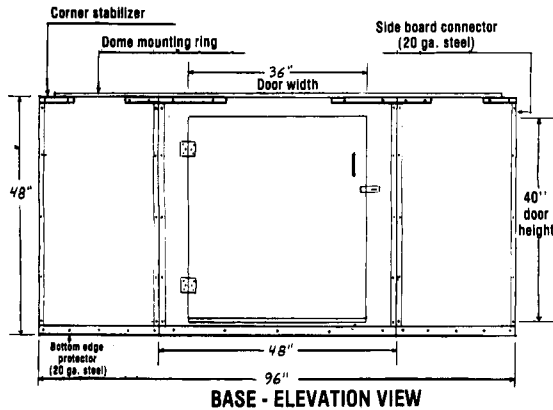
**Dome and Base May Be Purchased Separately.**

**KINARD MFG. CO.**

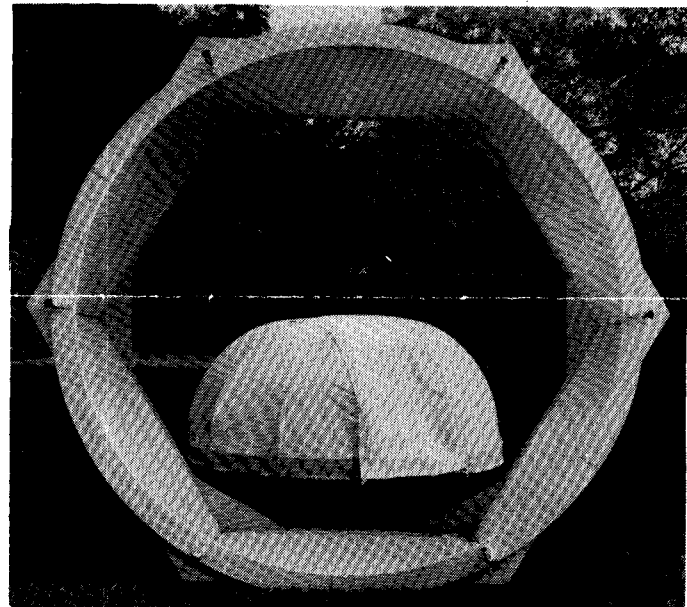
P.O. Box 971 - Hillsboro, TX 76645  
Phone (817) 582-8154



# HEXADOME



- \*Inside Height - 87"
- \*Inside Diameter - 82"
- \*Dome Cover -  
HERCULON 20 Double Stitched
- \*Sideboards -  
Exterior Grade Plywood
- \*Lightweight - Extremely Rugged



## You Can't Buy A Better One For Less

### KINARD MFG. CO.

P.O. Box 971 - Hillsboro, TX 76645  
Phone (817) 582-8154

"Hexadome" Rec'd from  
Freight Master  
June 8/87

PARTS TO BE SHIPPED

DOME

1. Dome Cover
2. 6 ea. of part #1
3. 12 ea. of part #2
4. 12 ea. of part #3
5. 4 ea. of part #4
6. 4 ea. of part #5
7. 4 ea. of part #6
8. 4 ea. of part #7
9. 4 ea. of part #8
10. 6 ea. of part #9
- ✓ 11. 16 ea. 1/2" PVC crosses
12. 4 ea. 1/2" PVC tees
13. 12 ea. 1/4" - 20 carriage bolts 2" long
14. 12 ea. 1/4" - 20 hex nuts
15. 36 ea. 1/4" flat washers
16. 12 ea. 3/16" round head bolts 1-1/2" long
17. 24 ea. 3/16" flat washers
18. 12 ea. 3/16" hex nuts
19. 2 ea. flap hold downs

ROLLER ASSEMBLY

1. 6 ea. angle brackets
2. 12 ea. rollers
3. 12 ea. 1/4" - 20 hex head bolts, 2" long
4. 12 ea. 1/4" - 20 hex head bolts, 1-1/2" long
5. 12 ea. 1/4" flat washers
6. 36 ea. 1/4" - 20 hex nuts

BASE

1. 1 ea. door units
2. 5 ea. side boards
3. 6 ea. side board connectors
4. 12 ea. corner stabilizers
5. 12 ea. reinforcing angles
6. 6 ea. dome mounting rings
7. 6 ea. mounting ring connectors
8. 72 ea. 3/16" round head bolts, 3/4" long
9. 18 ea. 3/16" round head bolts, 1" long
10. 90 ea. 3/16" hex nuts
11. 84 ea. 3/16" flat washers

## DOMES ASSEMBLY

STEP I Find 6 pieces of part #1 and push the ends together to form the "roll ring". (Do not bolt together).

STEP II Find 12 pieces of the following: (1) Part #2, (2) 1/4" carriage bolts 2" long, (3) 1/4" nuts, and 36-1/4" flat washers. Fasten at the twelve holes in the "roll ring". (See figure A.)

SIDE III Find 12 pieces of part #3 and 12 PVC crosses. Press a cross on the end of part #2. (Part #2 is now attached to the "roll ring").

*Polish or bevel to ease insertion to crosses*  
Insert the #3 parts between each cross to form the "upper base ring". (See figure B.) *Can't find in part 4 to cross, use 1/8" dia. (Buy of #3 have holes at center - why?) To help it.*

STEP IV Find 4 pieces of part #4, 3 pieces of part #5, 2 PVC crosses and 2 PVC tees. Press a tee on one end of two part #4s. Press a cross on one end of the other two part #4s. Press the other end of all four #4s into the "upper base ring". (See figure B.) Insert the three part #5s between the upper ends of part #4s.

STEP V Find 4 pieces of part #6, 4 of part #7, 1 of part #5, 2 PVC crosses and 2 PVC tees. Press a tee between a part #6 and #7. Make 2 of these. Press a cross between part #6 and #7. Make 2 of these. Insert the ends of the #6 parts into the "upper base ring". (See figure B.) Install part #5 as shown.

STEP VI Find 4 pieces of part #8. These parts have a straight section on one end. Insert the straight end into the "upper base ring". Press the other end into existing fittings. (See figure B.)

You are now ready for the Dome Cover, which will be much easier if you get someone to help you.

STEP VII Find 6 of part #9 (bottom base ring), twelve 3/16" bolts 1 1/2" long, twenty-four 3/16" flat washers, twelve 3/16" nuts and the cover.

Drape the cover over the frame with the flap over the large opening. Thread the part #9s through the bottom hem pressing the ends together as you go. After the "bottom base ring" has been inserted in the cover hem, slip it around until the holes in the ring line up with the slits in the hem. Install bolts as shown in figure A. Now go inside the dome and remove the three part #5s around the top and insert them in the top hem and reinstall in frame. Next, remove the part #6s and #7s on each side of the flap, push them through the cover opening hem and reinstall. Back off and take a look at the dome from the open side with the flap turned back. The part #6s and #7s may be slightly twisted. Make sure they are in their sockets good, then, if needed, twist them straight with a pair of pliers. You are through with the dome assembly.

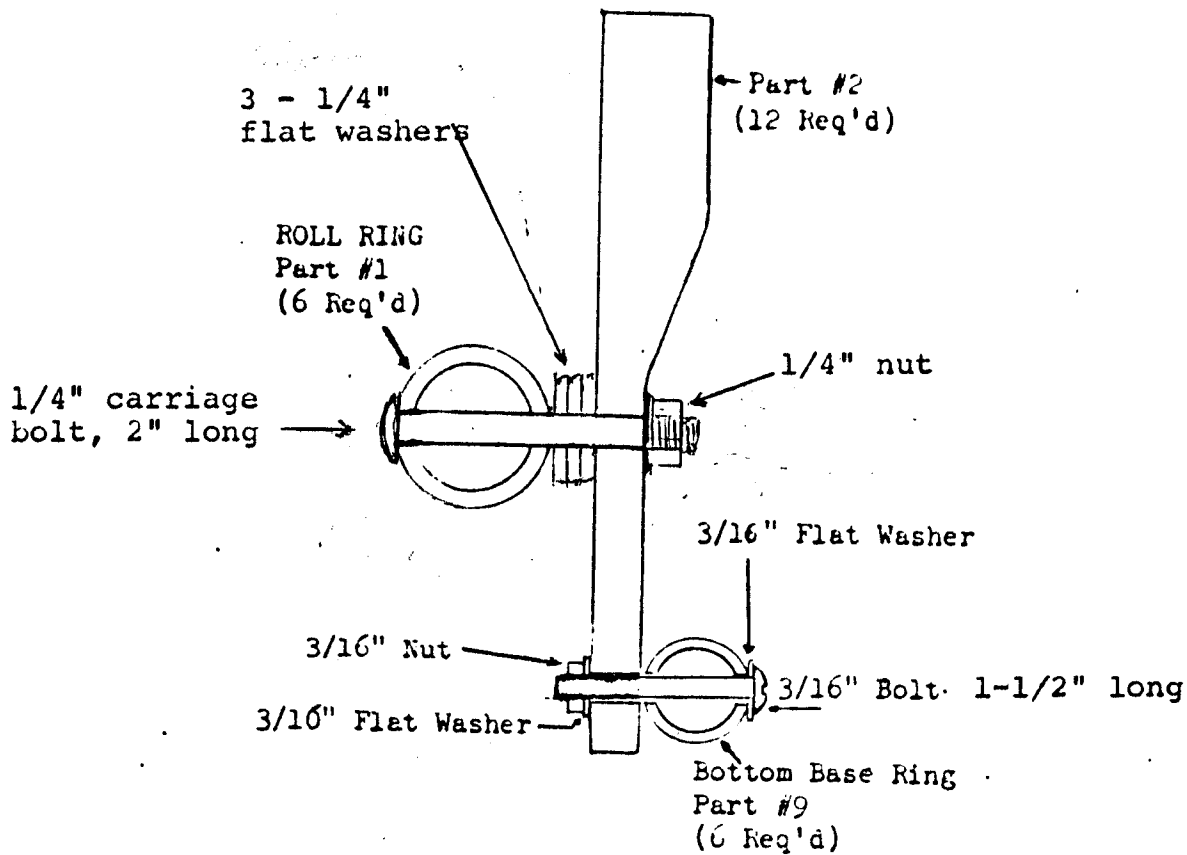


FIGURE A

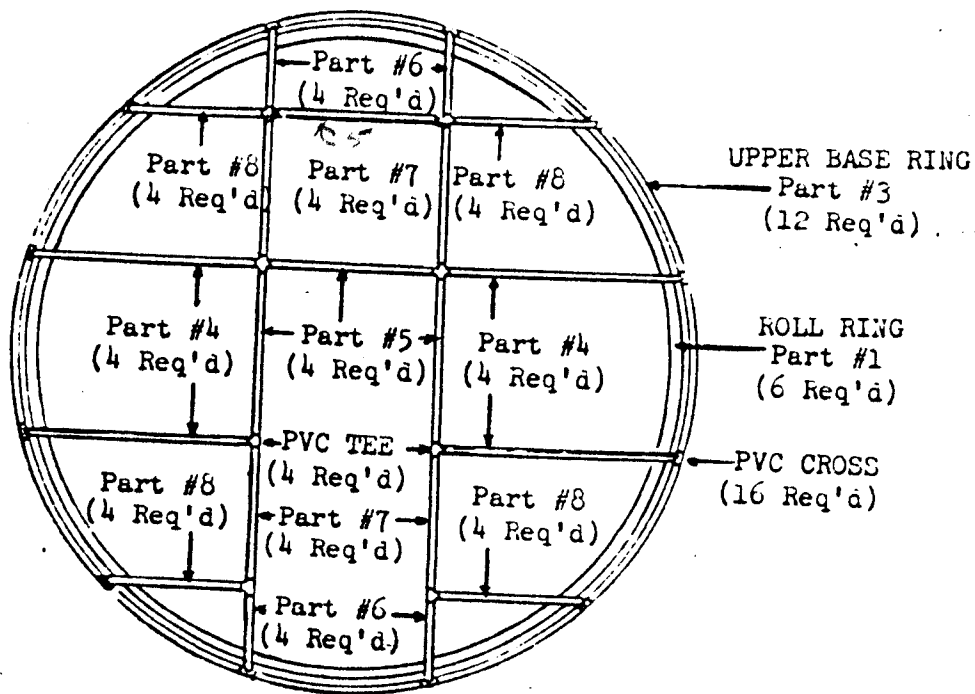


FIGURE B

DOME FRAME

## BASE ASSEMBLY

- STEP I Get someone to help you. You'll need a screwdriver and a pair of pliers and a clear level place of about 8 feet in diameter.
- STEP II Find two side boards, one side board connector, four 3/16" bolts 3/4" long, four hex nuts and four 3/16" flat washers. Set the two sides up (be sure the smooth side is facing out) at approximately 60 degrees and fasten them together. (See Fig. A). Do not tighten the bolts. (Throughout this assembly always put the flat washers and nuts on the wood side).
- STEP III Fasten another side to the existing two sides the same as in STEP II. Continue to put the rest of the sides together until you have formed the hexagon. At this point the base is very unsteady, so don't try to move it.
- STEP IV Find two reinforcing angles, one corner stabilizer, four 3/16" x 3/4" bolts, four nuts and four 3/16" flat washers. Slip the corner of the angle under the corner of the side board connector and put the stabilizer over both pieces, fasten with the bolts. Do not tighten any of the bolts until you have all the bolts in the piece you are working on.
- STEP V Work your way around the hexagon until you have all the angles and stabilizers in place. NOW go around the bottom the same way. Tighten all the bolts. The hexagon should now be very stable if you need to move it.
- STEP VI Fasten each one of the dome mounting ring segments to the top corner stabilizers. (See Fig. B). At the same time, the roller brackets are to be attached.
- STEP VII Fasten the ends of each segment together using a mounting ring connector and ~~three~~ 3/16" x 1" bolts and nuts. Now, tighten it all up. The crack between the mounting ring and base should be caulked to keep water from seeping in. Caulking is not provided. *had to redrill holes in stabilizer thru segments*
- STEP VIII Now is the best time to paint the base. It has been primed with an exterior latex paint, so use latex paint for the finish. *use "3rd" hole, as noted. use "felt" to plug wide separation between segments first!*
- STEP IX Install the bottom rollers in the roller bracket as shown in Fig. B. After the dome assembly is completed and the dome is set in place, install the top rollers.
- STEP X Find the two "hold down straps" and install as shown in Figure C.

*Packing Box: Probably Pine - straight grain  
Remove star screws & recover 5-pieces  
- total: 8 x 2" x 1" x 4 ft.*

*(a) can holes in corner stabilizer & these pieces - connected? (b) Use to raise base assembly for painting. How to paint galvanized steel at bottom? (used props) Di 150 July 13.*

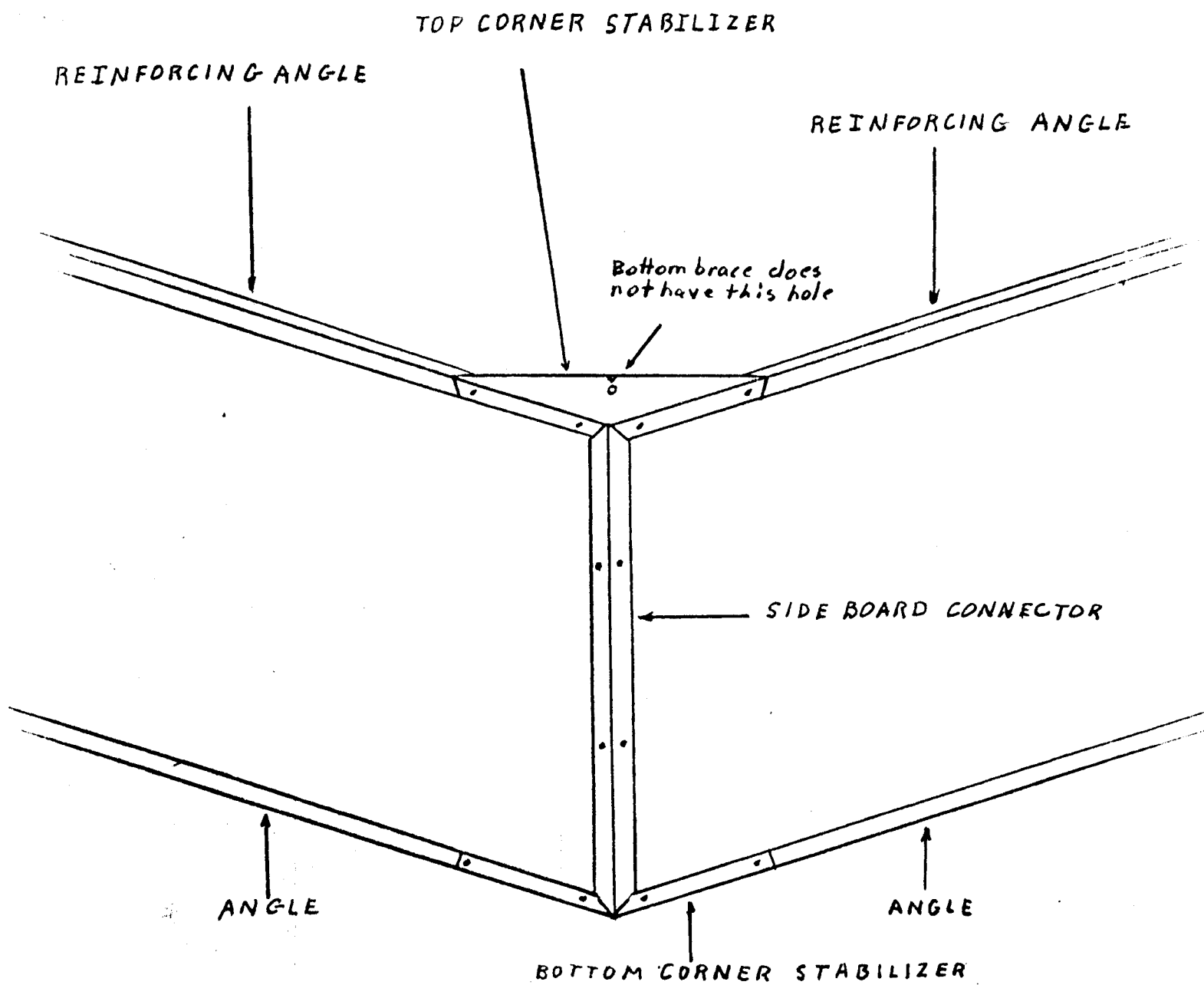


FIG. A

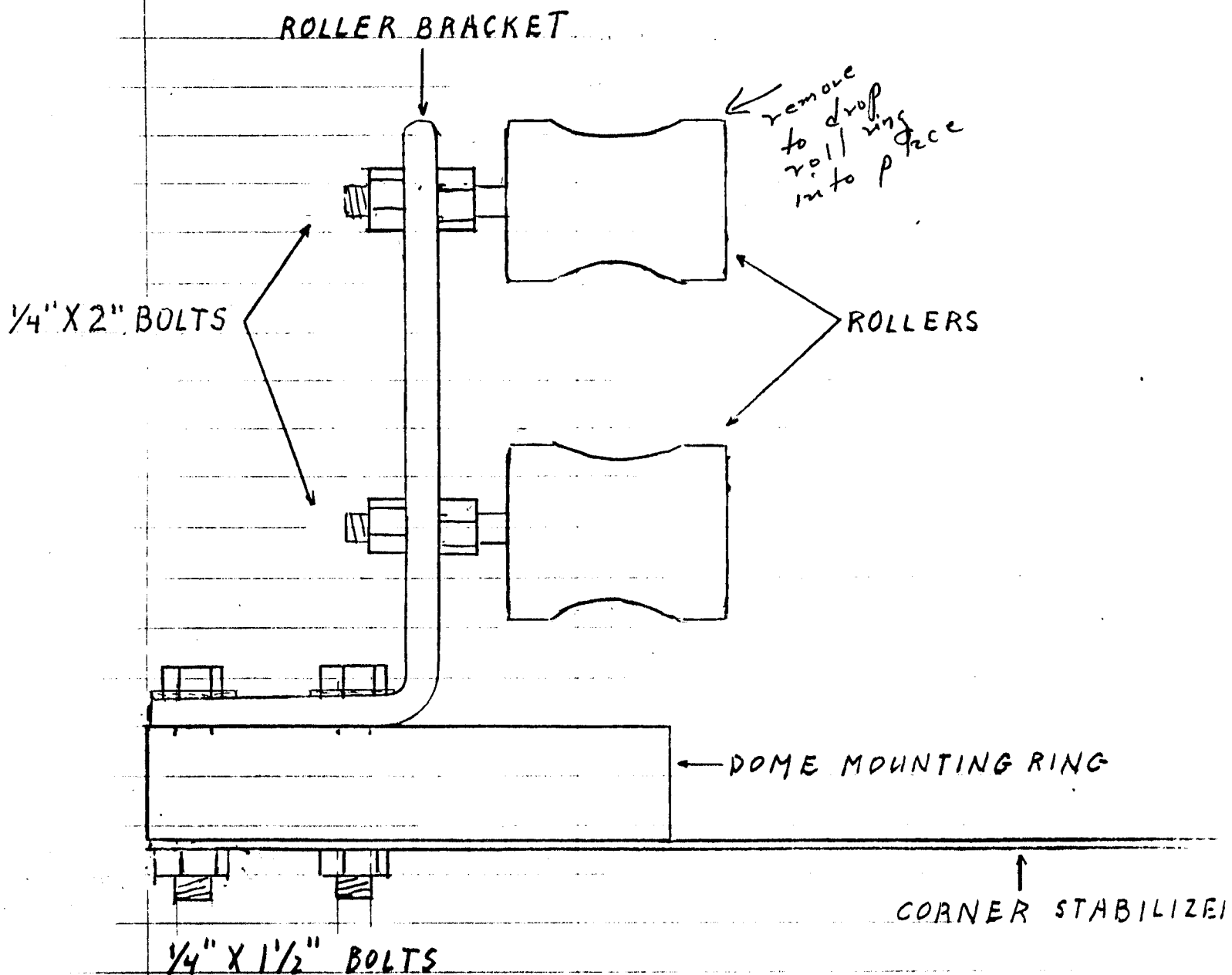


FIG. B



## FLAP HOLD DOWNS

- STEP I You will need a 1/4" electric drill, a 1/4" bit, screw driver and pliers..
- STEP II Rotate the dome so the opening is centered over one of the base side boards. Choose the one most convenient for you. (It cannot be over the door unit.)
- STEP III With the flap closed, centered and pulled down firmly in place measure 5 1/2" down and 2 1/2" over from eyes in the corner of flap. Drill 1/4" holes and mount hold downs with bolts, nuts and washers provided.

## FLAP SUPPORT

Included with your dome are two (2) flap supports. After the dome is complete you may snap these under the flap to prevent it from pulling into the opening.