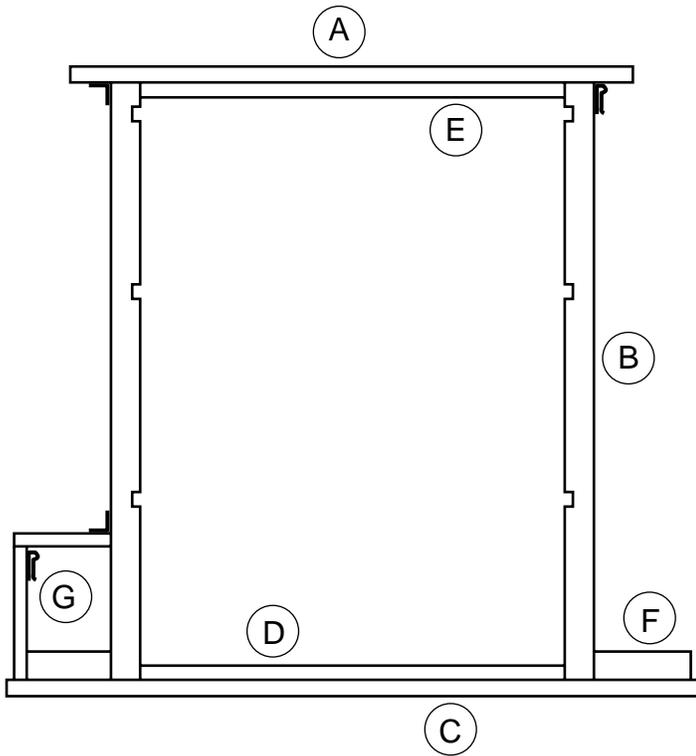


# 3-FRAME OBSERVATION BEE HIVE

## DETAILS FOR OAK LUMBER

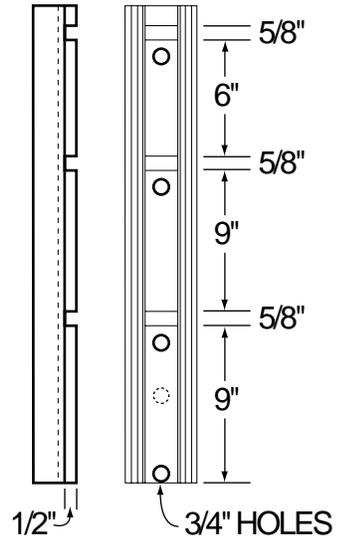
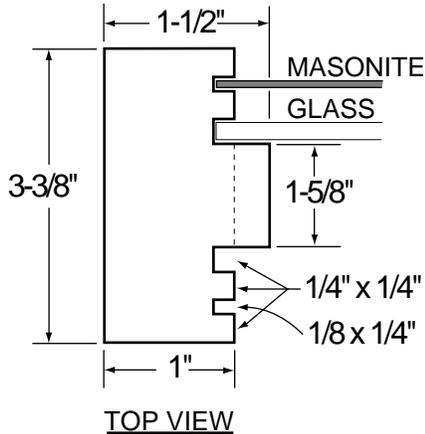


**(A) - COVER**

3/4" x 4-3/4" x 25"

**(B) - (2) SIDES**

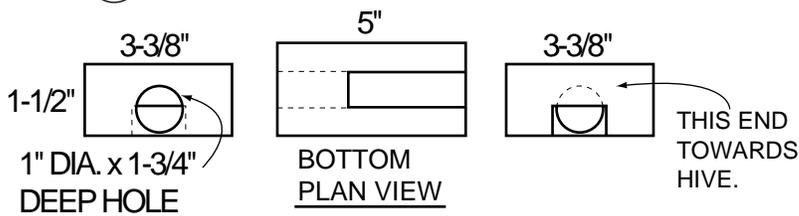
1-1/2" x 3-3/8" x 27"



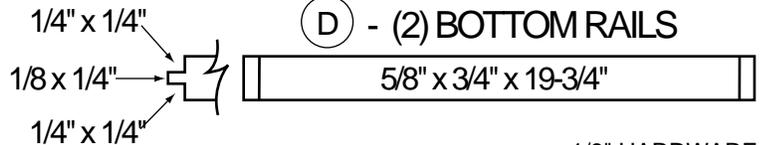
**(C) - BOTTOM**

1" x 6-1/4" x 33-1/2"

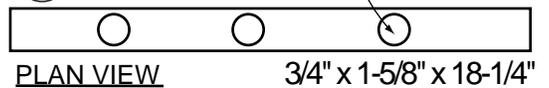
**(F) - ENTRANCE : 1-1/2" x 3-3/8" x 5"**



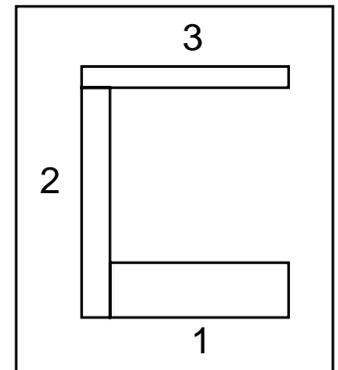
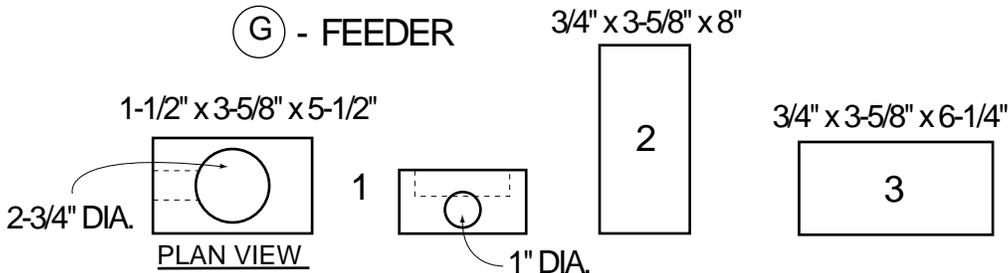
**(D) - (2) BOTTOM RAILS**



**(E) - TOP BAR**



**(G) - FEEDER**



# 3-FRAME OBSERVATION BEE HIVE

## DETAILS FOR OAK LUMBER

### ADDITIONAL MATERIAL:

- NOTE - DEPENDING ON YOUR USE AND NEEDS OF THE OBSERVATION HIVE, SEVERAL DIFFERENT KINDS OF GLASS AND THICKNESSES CAN BE USED. FOR A LIGHTER WEIGHT HIVE, USE PLEXI-GLASS. IF LONG TERM CLARITY IS DESIRED, USE GLASS. YOU CAN REVERSE THE TWO DADO WIDTHS FOR GLASS AND PANEL IF A THINNER GLASS PANEL IS USED. 1/8" GLASS AND 1/4" PANEL.
- (2) PIECES OF 1/4" PLEXI-GLASS APPROX. 19-5/8" x 27"
- (2) PIECES OF 1/8" HARDBOARD OR LUAN 19-5/8" x 27"
- (2) 3" BRASS HINGES
- (2) BRASS LATCHES THAT CAN BE LOCKED
- 1" CLEAR TUBING (LENGTH AS REQUIRED)
- (1) MASON JAR WITH HOLES DRILLED IN THE COVER

### CONSTRUCTION NOTES

FOR MAKING SIDES, START WITH A PIECE OF 6/4 OAK STOCK ABOUT 8" IN WIDTH. CUT DADO'S FOR FRAME REST'S FIRST THEN RIP THE STOCK INTO TWO PIECES, 3-3/4" WIDE. NEXT, ADJUST FENCE TO 2-7/8" AND CUT DADO, THEN TURN THE STOCK AROUND AND CUT THE OTHER DADO THAT HOLD THE PANELS. NOW SET THE FENCE TO 2-1/2" AND CUT THE DADO THAT HOLDS THE GLASS. GO BACK AND WIDEN THE FIRST DADO'S TO THE THICKNESS OF THE PANEL MATERIAL YOU ARE USING....LUAN, BIRCH PLYWOOD, HARDBOARD.

- THE HEIGHT OF PART (2) FOR THE FEEDER CAN VARY DEPENDING ON THE JAR USED. ADJUST TO FIT (PINT, QUART, MASON, ETC.) AN ENTRANCE FEEDER CAN BE MODIFIED AND USED IN PLACE OF FEEDER BOTTOM "G" SO THERE'S TIN UNDER THE JAR INSTEAD OF WOOD. DO NOT MOVE THE HIVE WITH THE SUGAR WATER IN THE JAR. PUT AN EMPTY ONE ON FIRST.
- ON ONE OF THE SIDES, DRILL THE BOTTOM VENT HOLE ABOUT HALF WAY UP THE FIRST FRAME SPACE. THIS PREVENTS A CONFLICT WHEN ATTACHING THE FEEDER TOP.
- IF YOU USE SCREWS FOR ATTACHING MEMBERS, THEY CAN BE INSTALLED FROM BOTTOM SO THAT NONE SHOW. THE TOP BAR SCREWS GET COVERED WITH THE LATCH AND HINGE.
- INSTALL A NICE BRASS PULL ON TOP TO ACT AS HANDLE AND ROUT THE EDGES TO GIVE A NICE PROFILE.
- APPLY PETROLEUM JELLY TO THE EDGE OF THE GLASS BEFORE INSTALLING TO PREVENT THE BEES FROM PROPOLIZING THE GLASS TO THE FRAME. IF THEY DO PROPOLIZE, USE A HAIR DRIER ON THE GLASS EDGE TO SOFTEN.