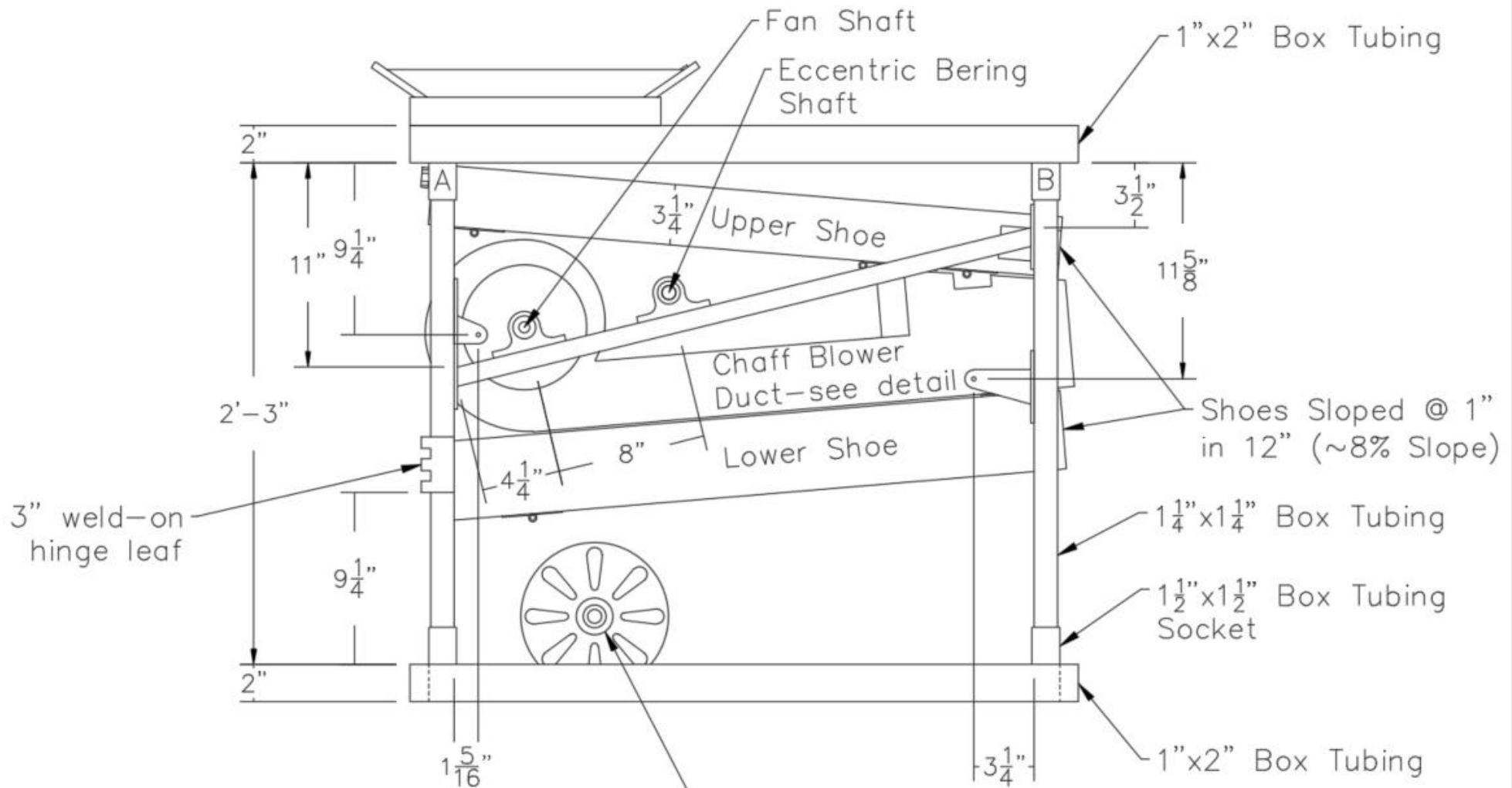


# RIGHT SIDE VIEW



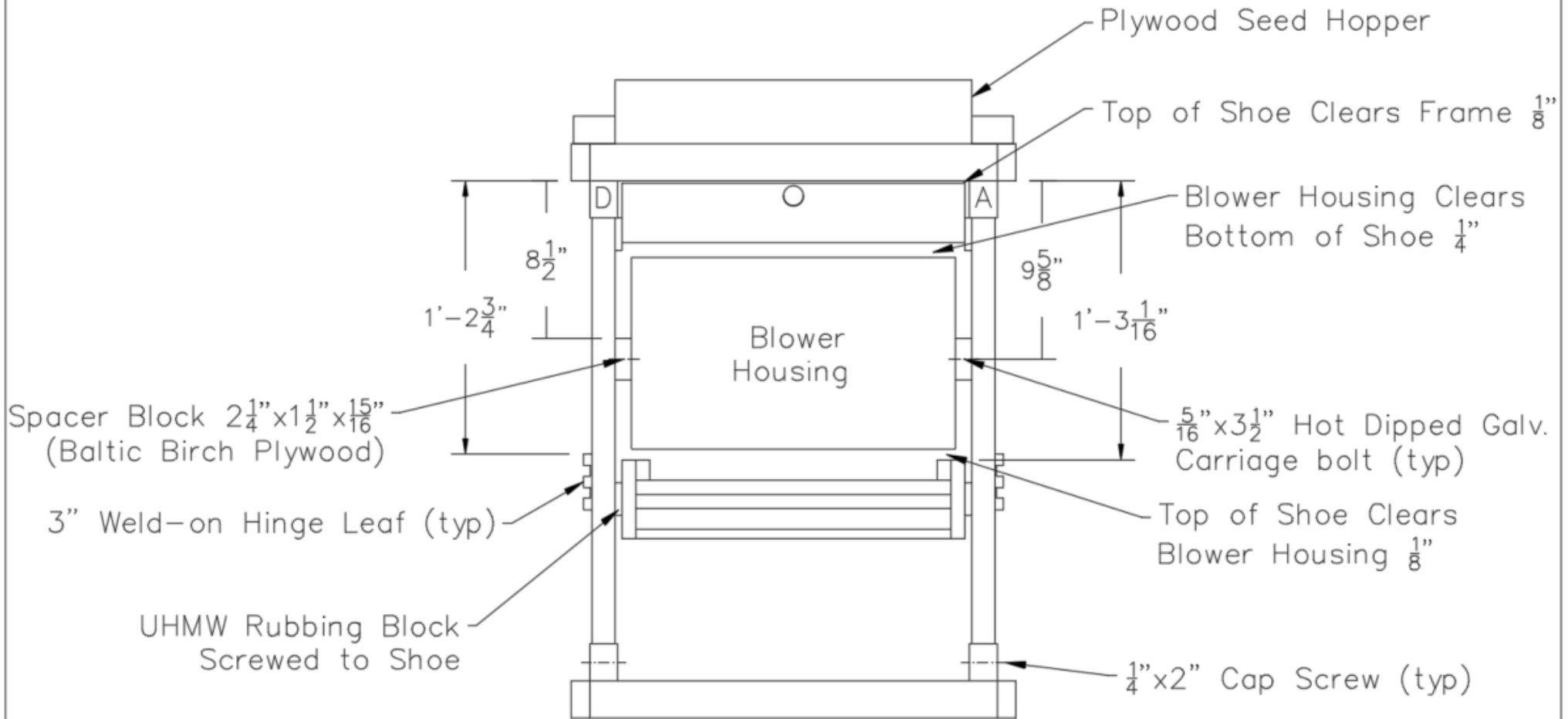
## Note:

- Chaff blower shaft turns at 900 RPM.
- Eccentric bearing shaft turns at 300 RPM.
- Fan and eccentric bearing shafts centered 1 1/4" above bottom of pillow block.

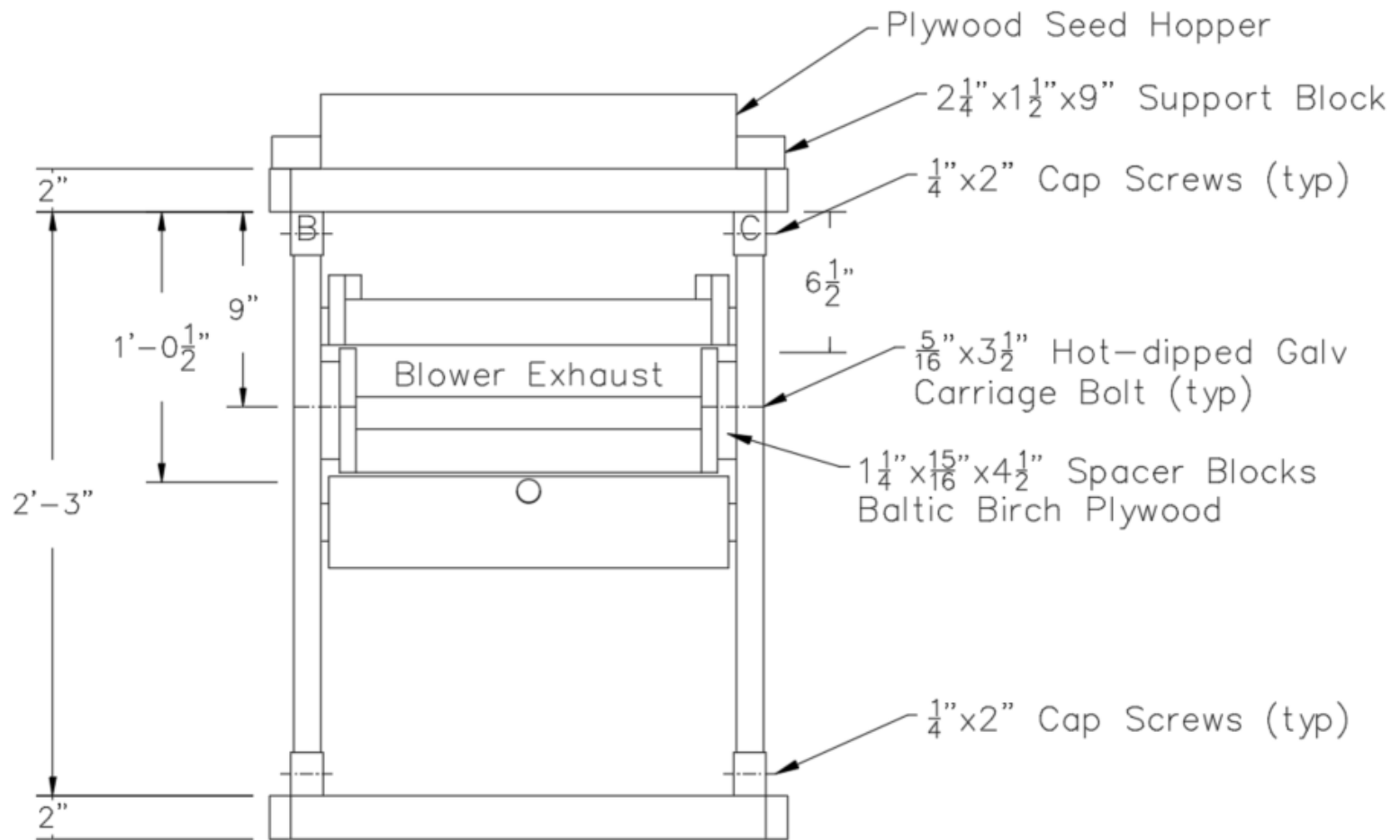
1hp Motor—Sealed with Fan.  
 1750-1800 RPM  
 Rotation—CCW

Drawing 1 of 28  
 Scale: 1 1/2"=12"

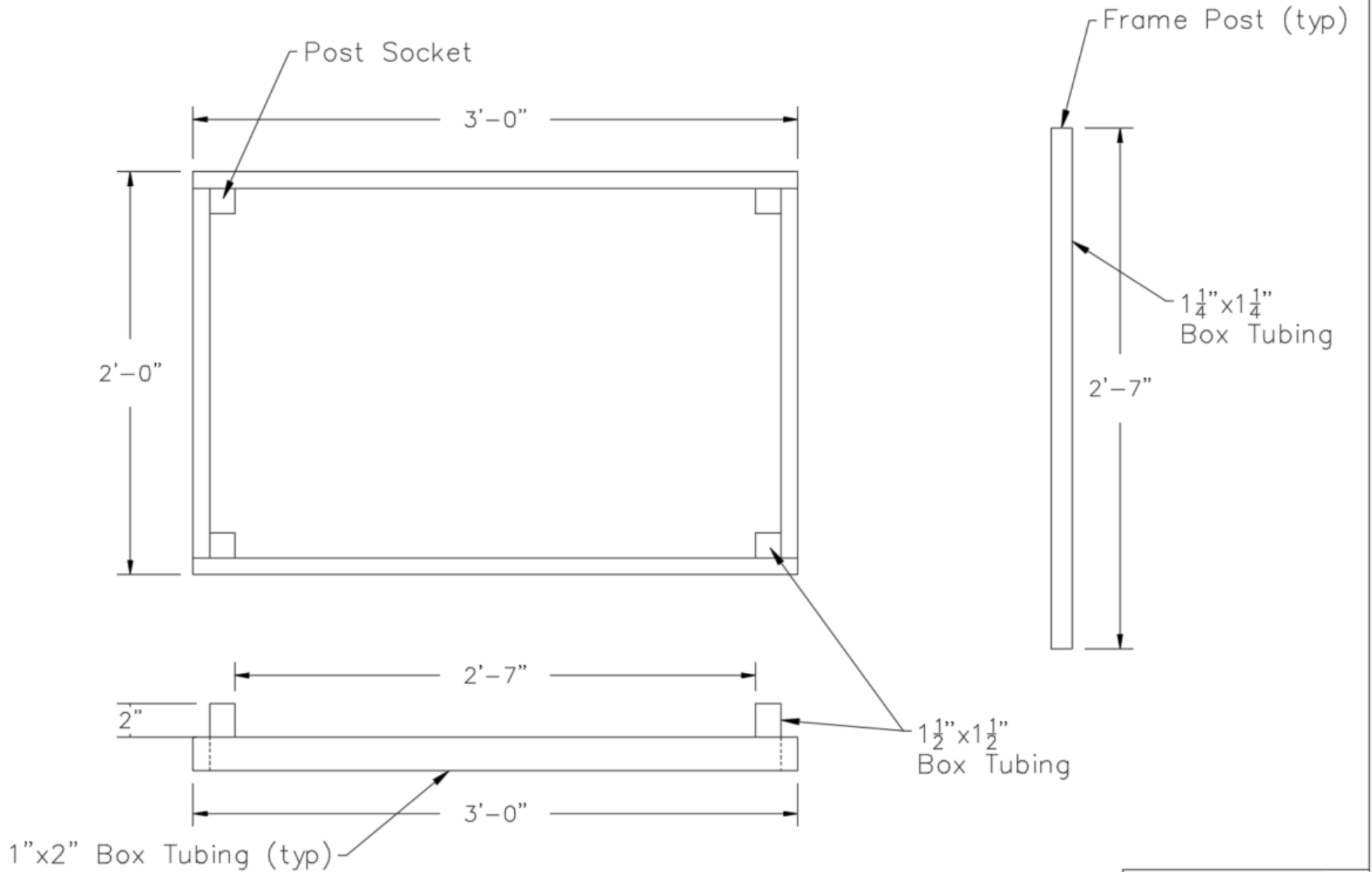
# BLOWER VOLUTE END VIEW (Seed exit chutes removed)



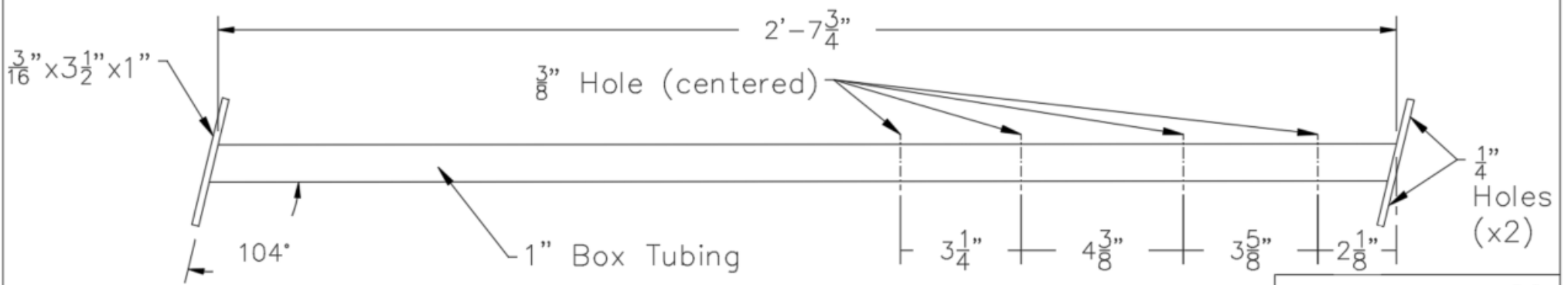
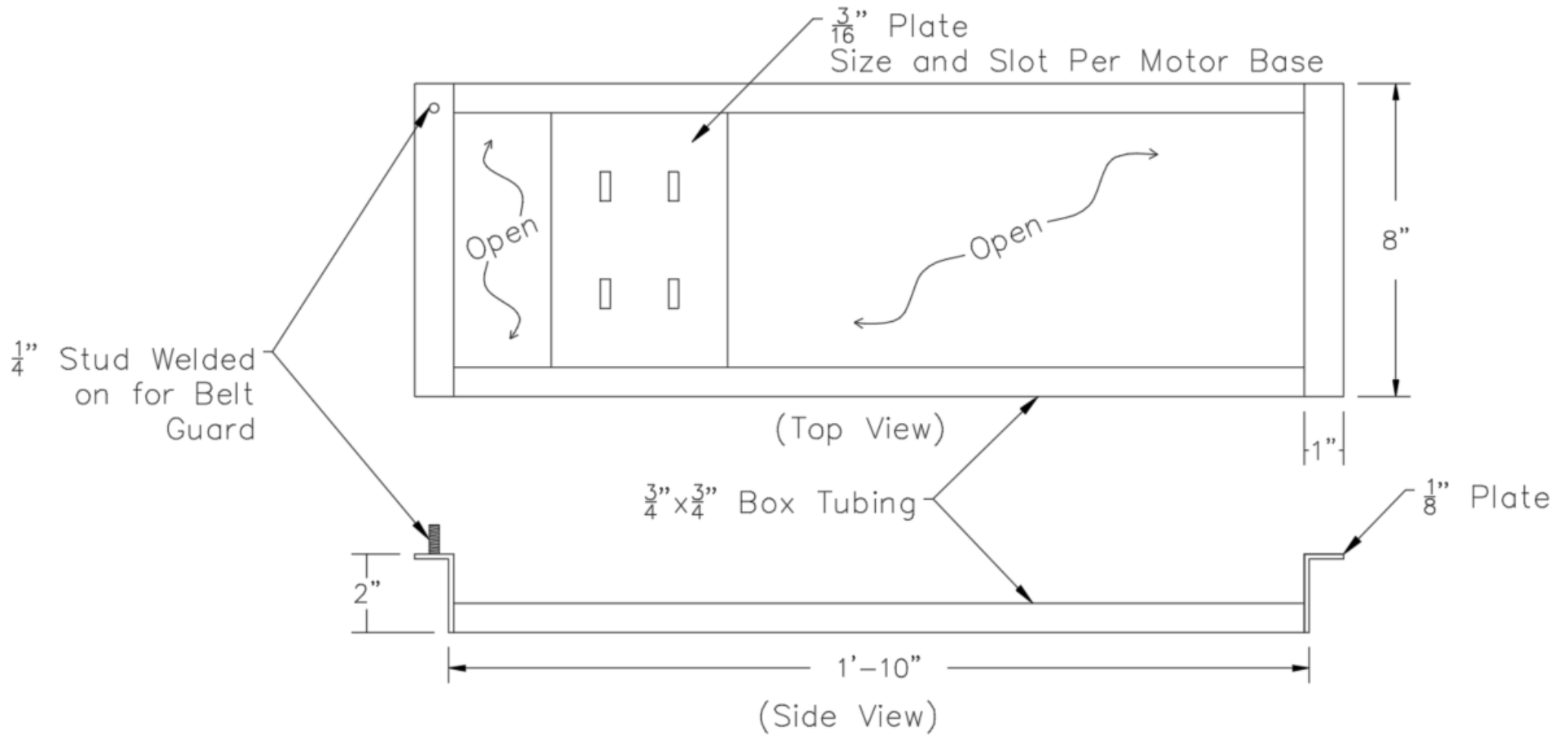
# BLOWER EXHAUST END VIEW



# BASE & TOP FRAMES (Weight-17lb each)

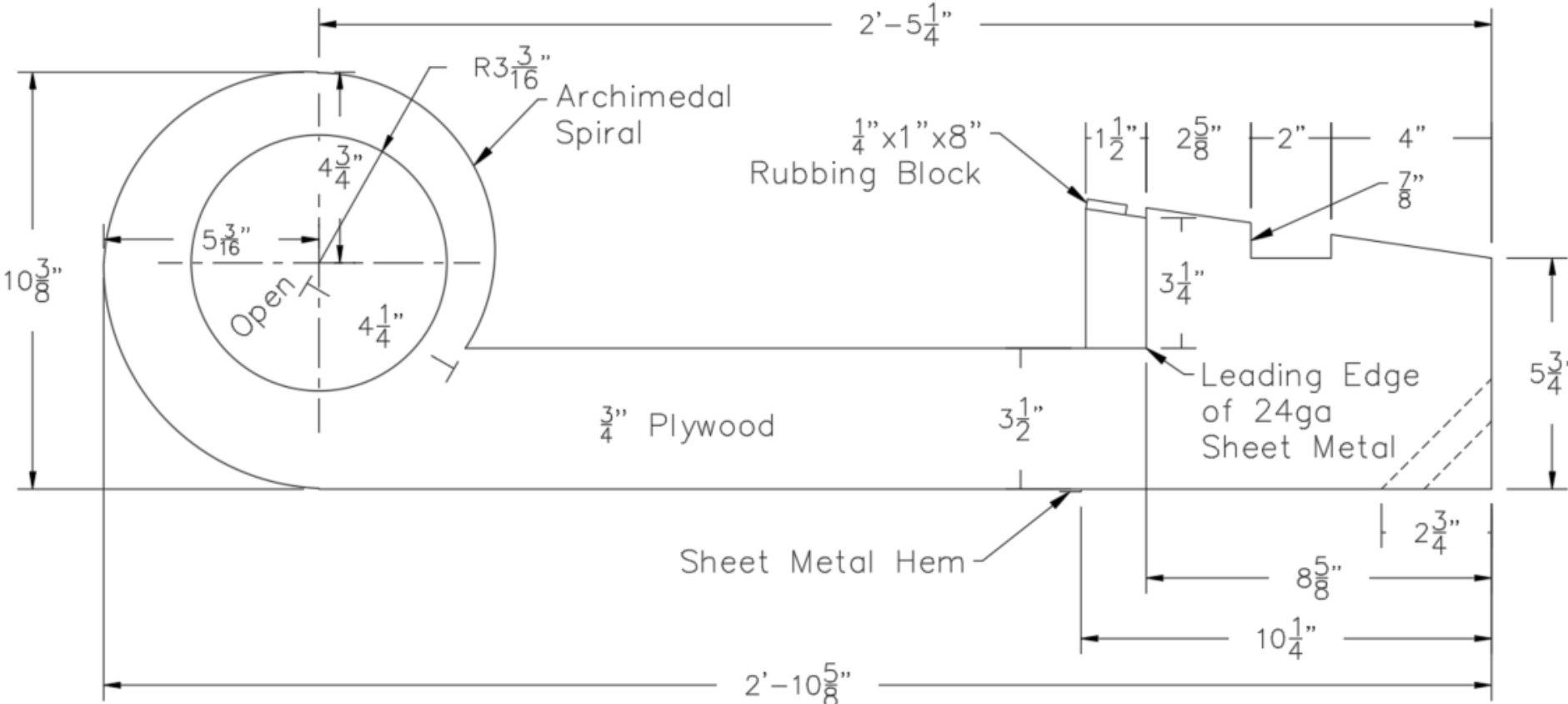


# MOTOR MOUNT/FRAME BRACE

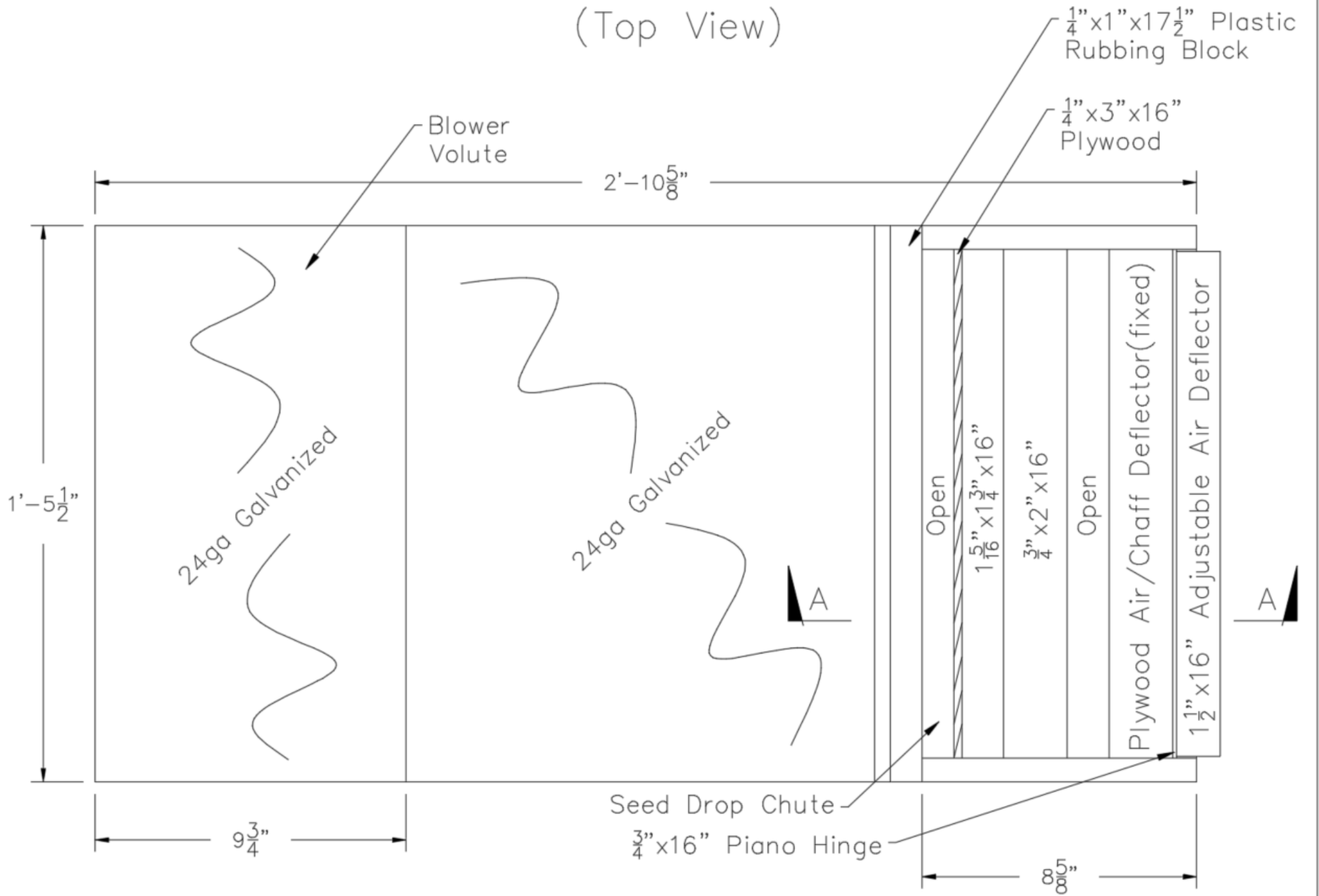


(Angle Brace/Pillow Block Support)

# CHAFF BLOWER HOUSING (Side View)



# CHAFF BLOWER HOUSING (Top View)



# CHAFF BLOWER HOUSING (Section A-A)

$\frac{1}{4}$ "x3"x16" Plywood

Rubbing Blocks ( $\frac{1}{4}$ "x1"x17 $\frac{1}{2}$ "  
Made from Cutting Board

Sheet Metal Air Deflector (Optional)

Space for Pivot Arm Rod

$\frac{3}{4}$ "x2"x16"

98°

Gap Necessary to Prevent Air Pushing Up Seed Drop Chute

$\frac{3}{8}$ "

Air/Chaff

Piece Pivots to Adjust Airflow

Piano Hinge

$\frac{3}{4}$ "x1 $\frac{1}{2}$ "x16"

45°

$\frac{3}{4}$ "

10 $\frac{1}{4}$ "

$\frac{3}{4}$ "x3"x16 Plywood  
Air Deflector

Drawing 8 of 28  
Scale: 9"=12"

2"x4" Stock  
17 $\frac{1}{2}$ "

Seed Drop Chute

Seed Falls Onto Lower Screen

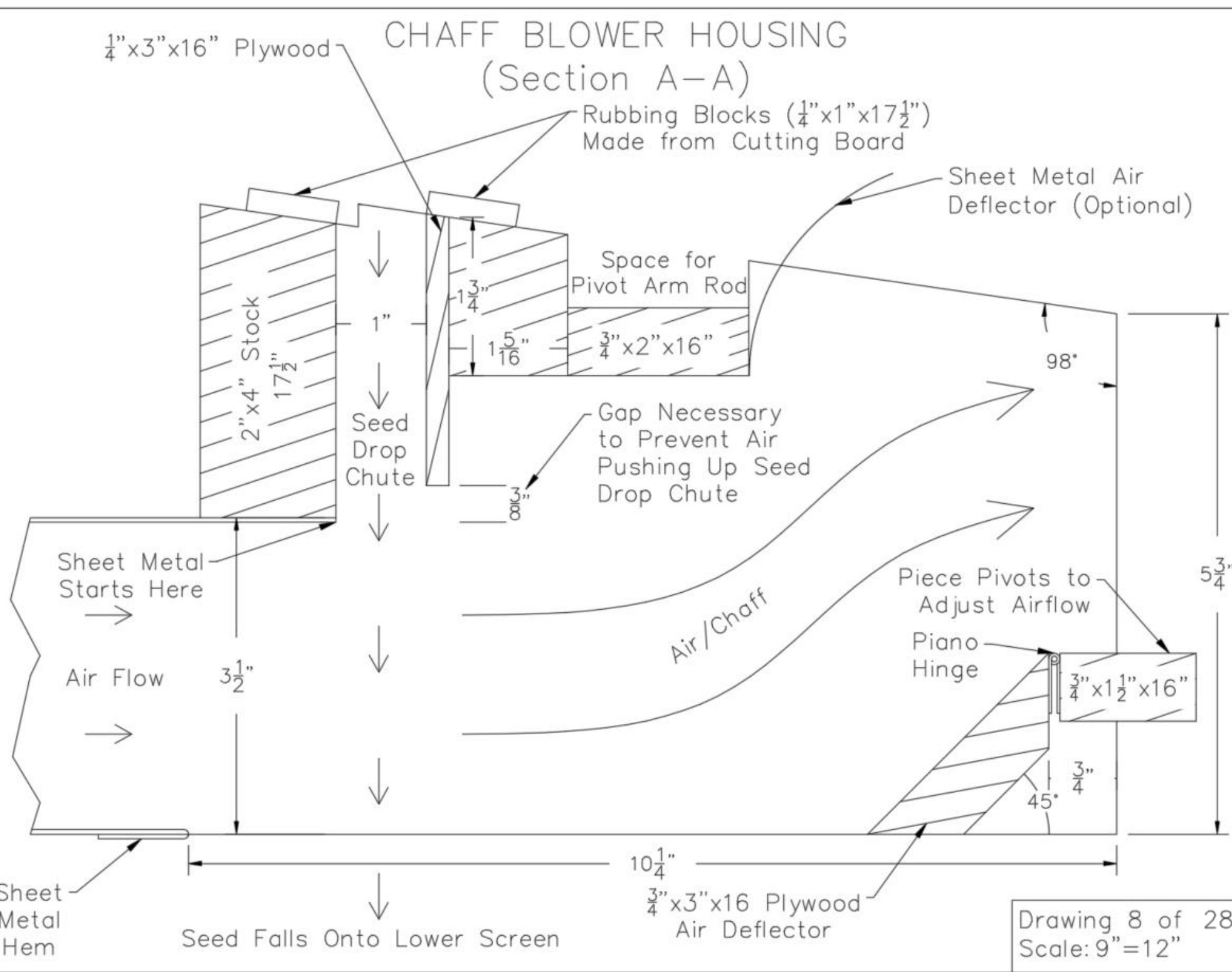
Sheet Metal Starts Here

Air Flow

3 $\frac{1}{2}$ "

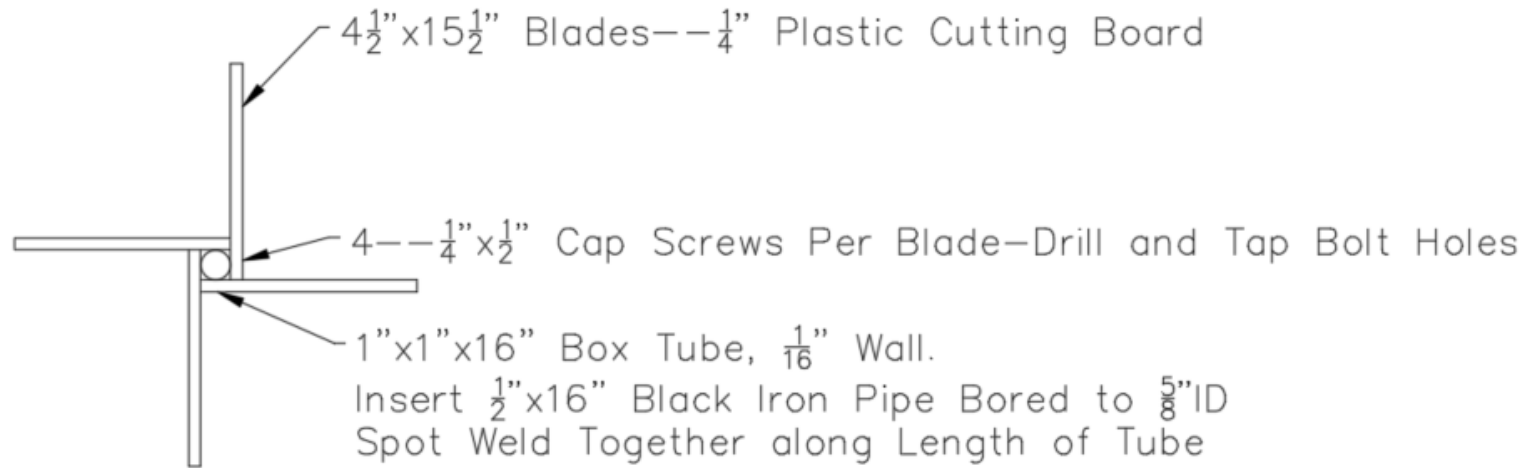
Sheet Metal Hem

5 $\frac{3}{4}$ "

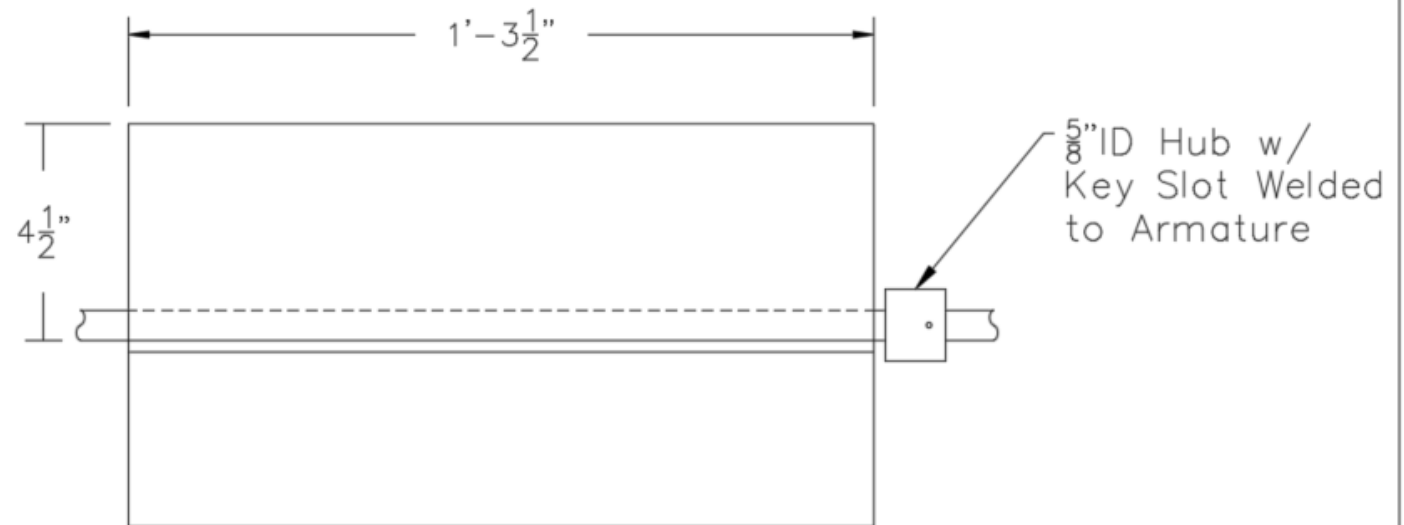




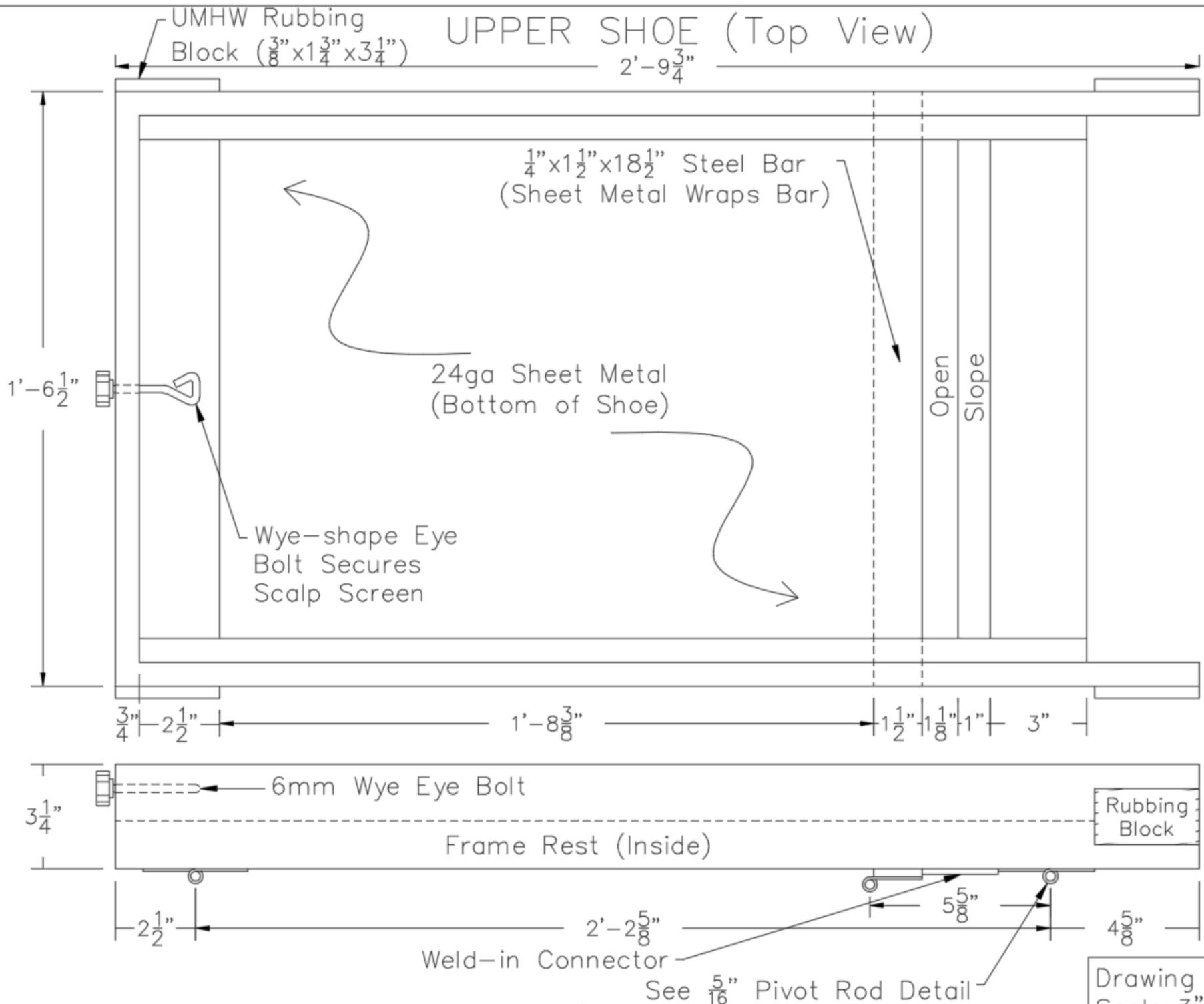
# CHAFF BLOWER IMPELLER



End View



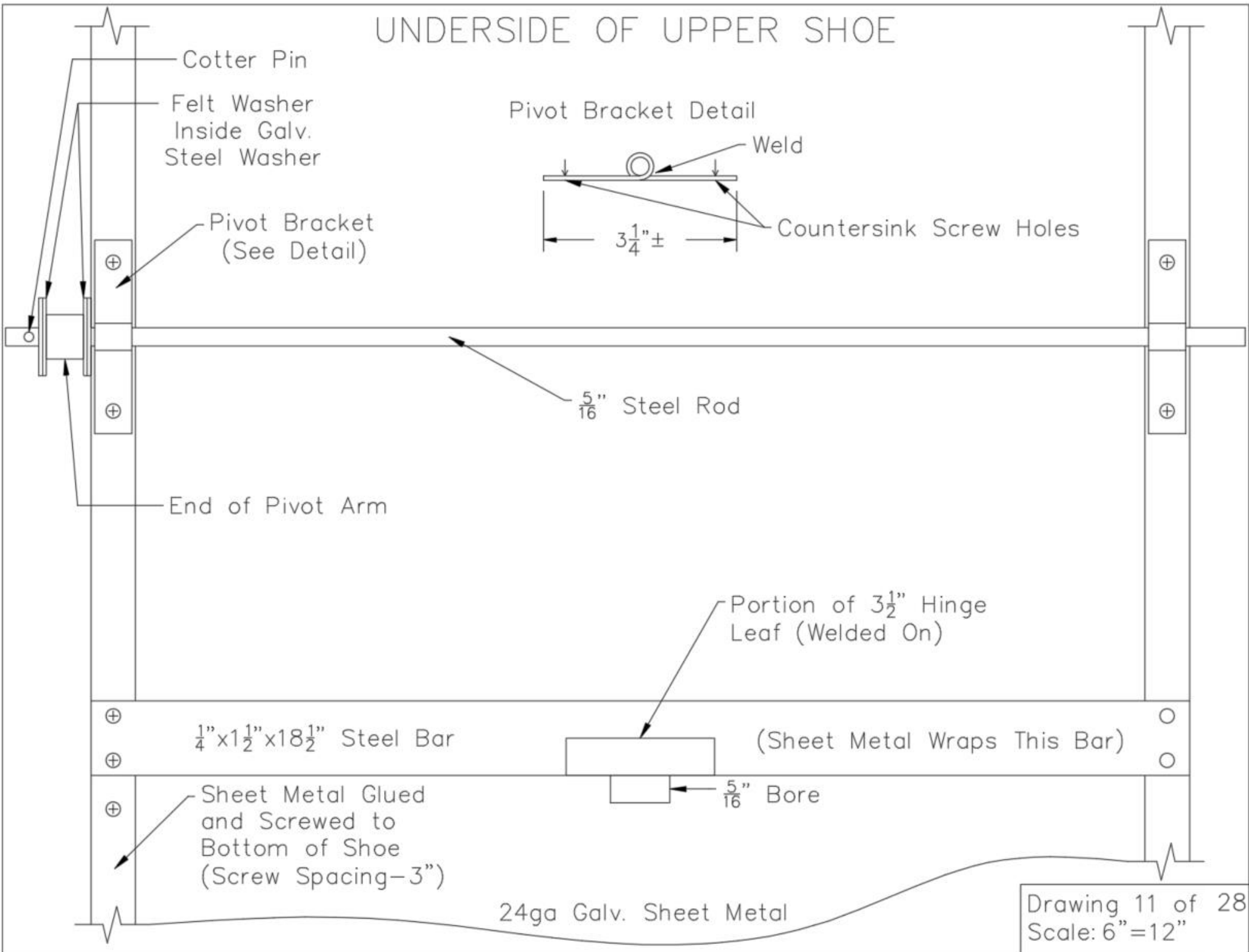
# UPPER SHOE (Top View)



Note: Attach Hinges and Steel Bar with 2" Brass Screws

Drawing 10 of 28  
Scale: 3"=12"

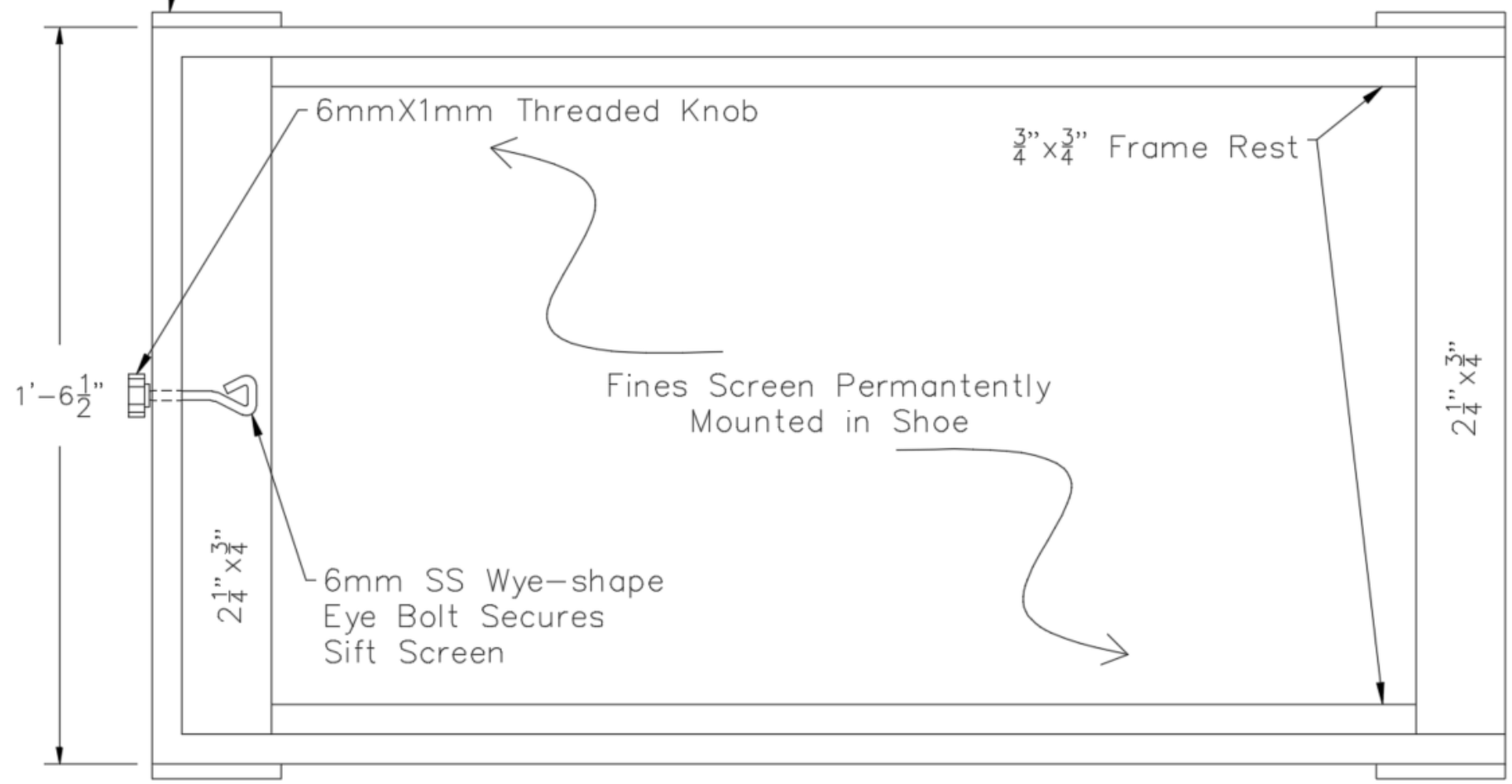
# UNDERSIDE OF UPPER SHOE



UMHW Rubbing  
Block -  $\frac{3}{8}$ " x  $1\frac{3}{4}$ " x  $3\frac{1}{4}$ " (typ)

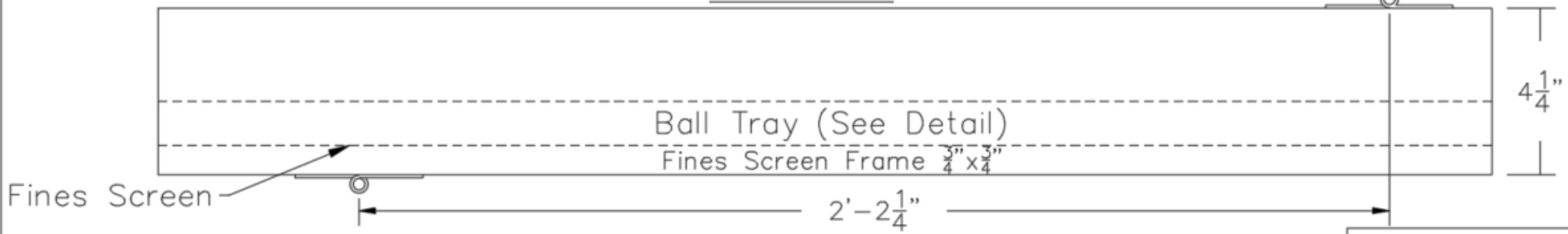
# LOWER SHOE (Top View)

2'-10"

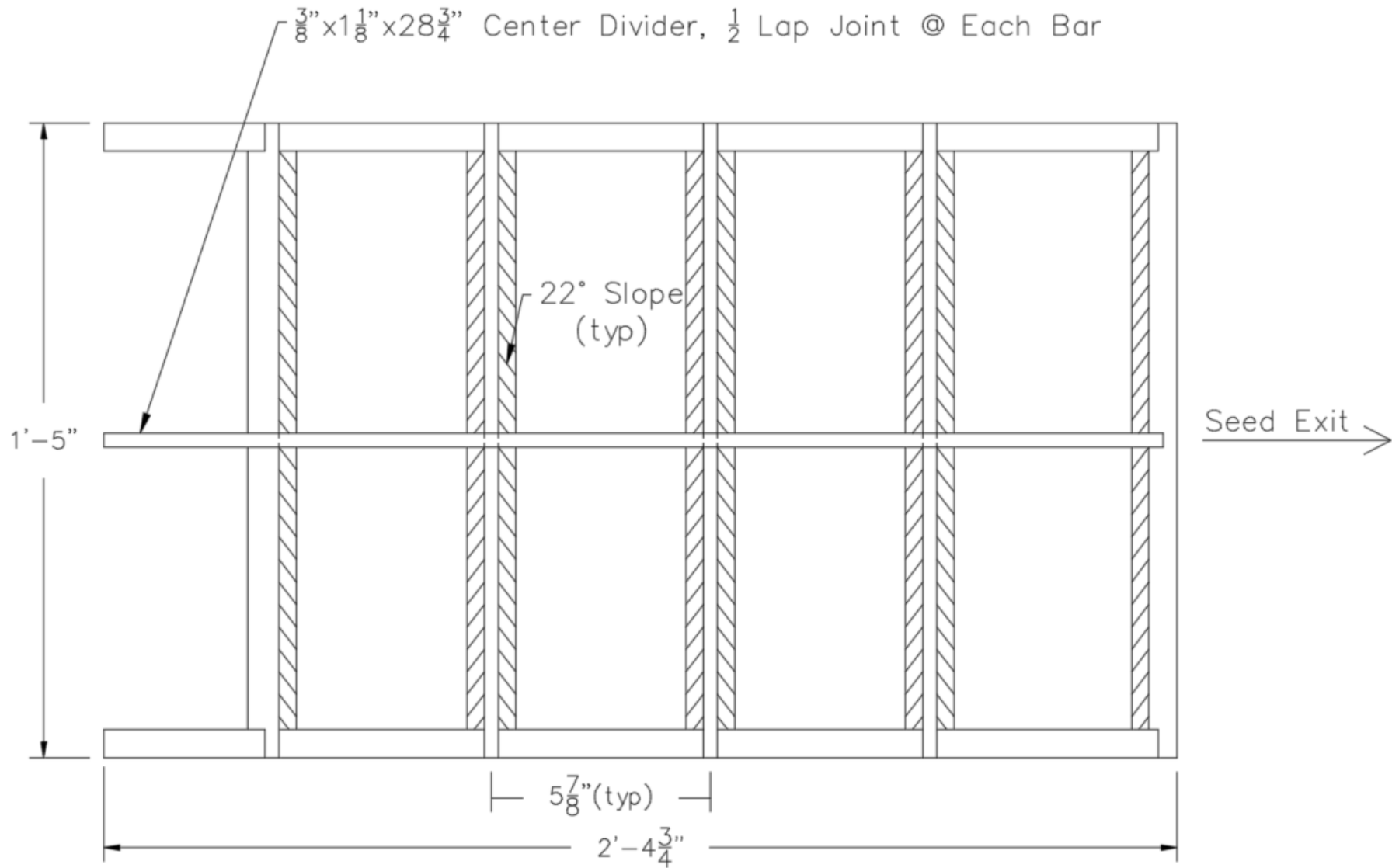


## Side View

$\frac{5}{16}$ " Pivot Rod Bracket



# BALL TRAY (Top View)

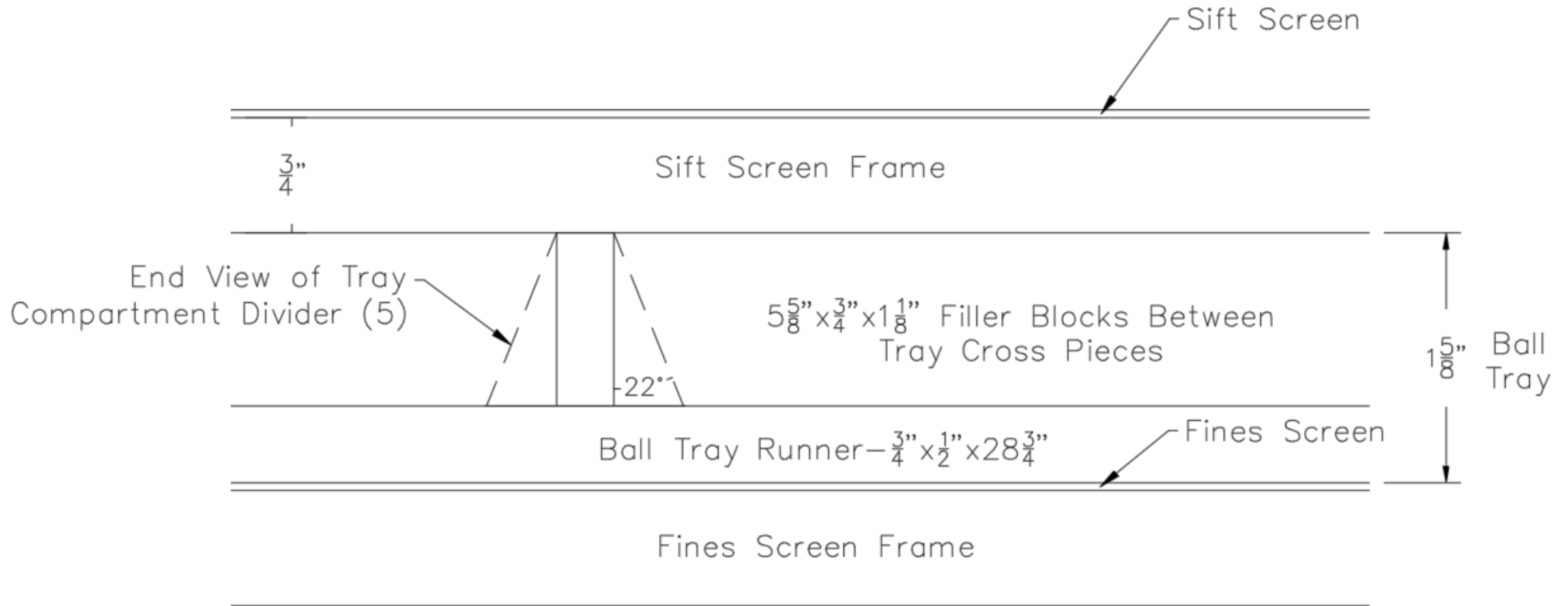


## Notes:

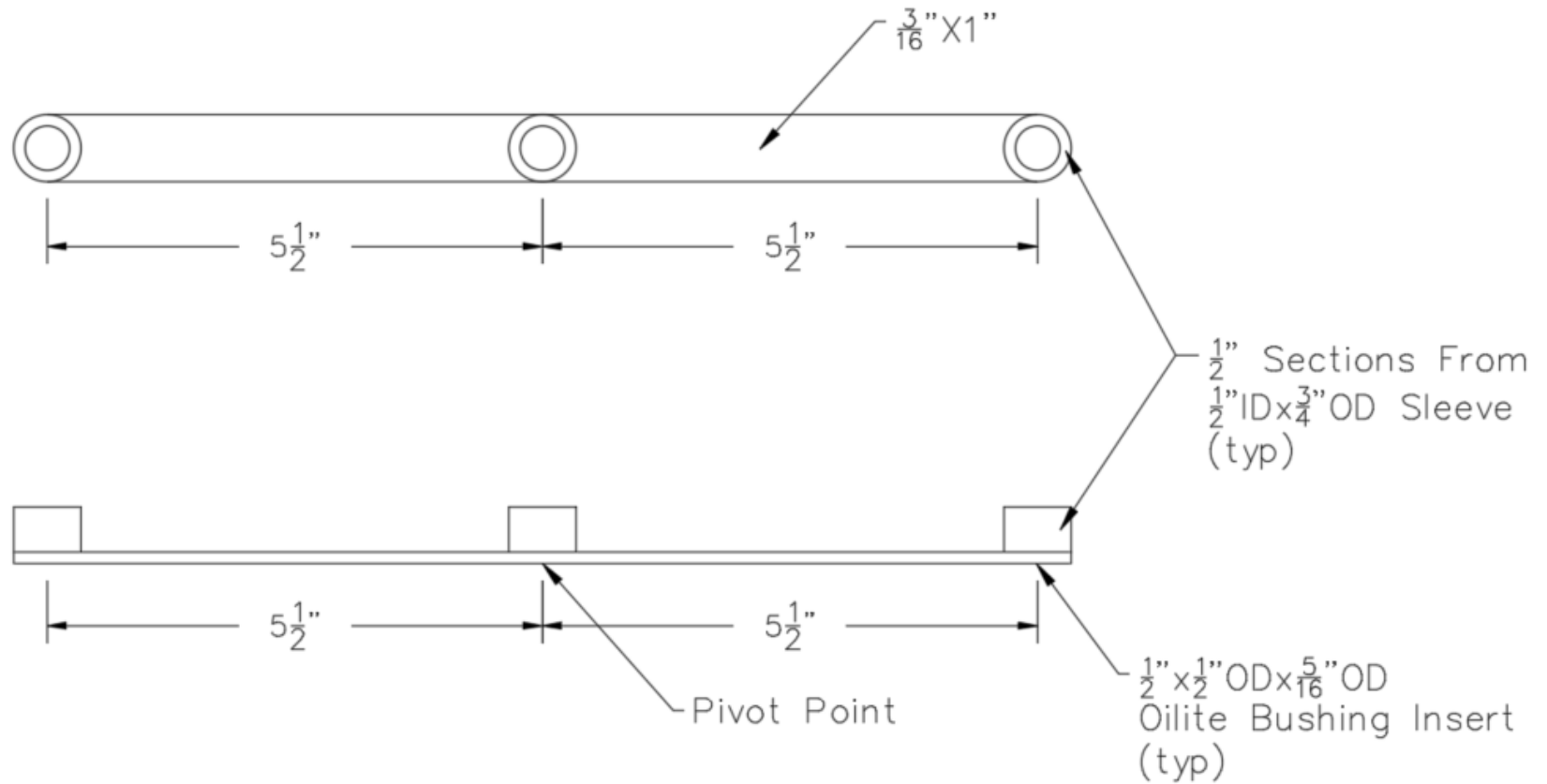
- Fits into Bottom Shoe (See Side-view Detail)
- Use 32  $1\frac{1}{8}$ " Neoprene Balls--4 Balls Per Compartment.
- Construct of Yellow Poplar or Soft Maple. Build in place.
- Spacer Blocks are Glued and Nailed to  $\frac{1}{2}$ " x  $\frac{3}{4}$ " x  $28\frac{3}{4}$ " Runner.

Drawing 13 of 28  
Scale: 3"=12"

# BALL TRAY (Bottom Shoe, Side View)



# PIVOT ARMS (Quantity-4)



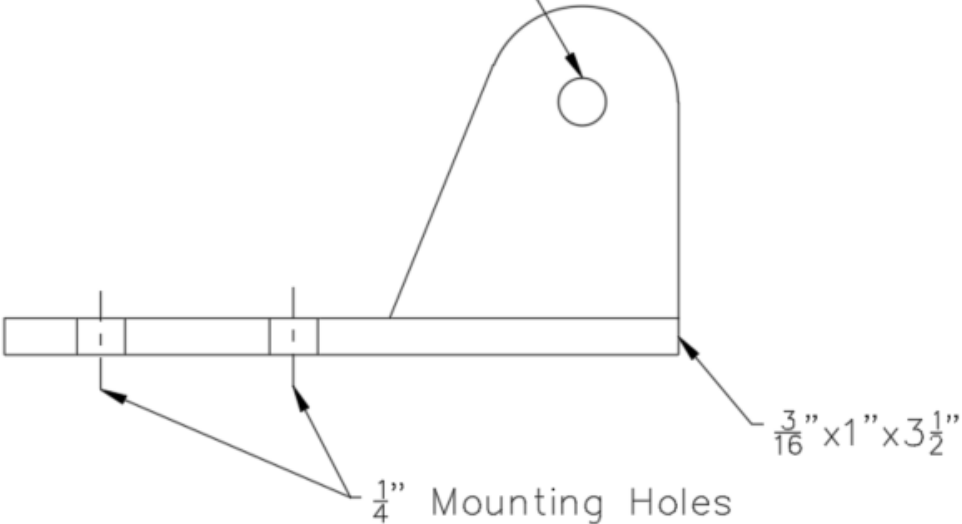
## Notes:

- Make an Accurate Jig to Ensure Accurate Fabrication
- Shoulder Bolt forms Pivot Post ( $\frac{5}{16}$ " x  $\frac{3}{4}$ " Shank,  $\frac{1}{4}$ " Threaded End)

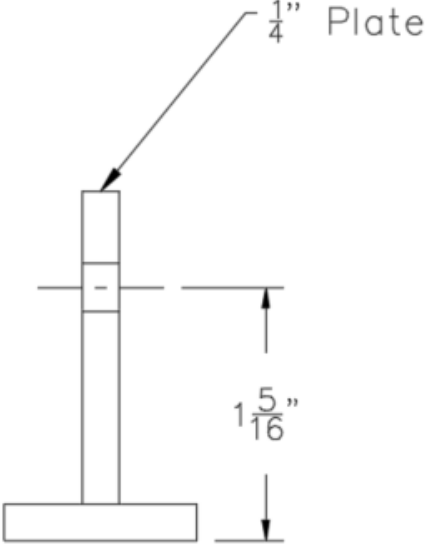
Drawing 15 of 28  
Scale: 6"=12"

# PIVOT ARM SUPPORT BRACKET (Blower Shaft End—Qty 2)

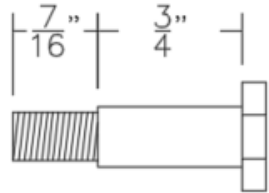
Drill & Tap For  $\frac{1}{4}$ "  
Threaded Shoulder Bolt



Side View



End View

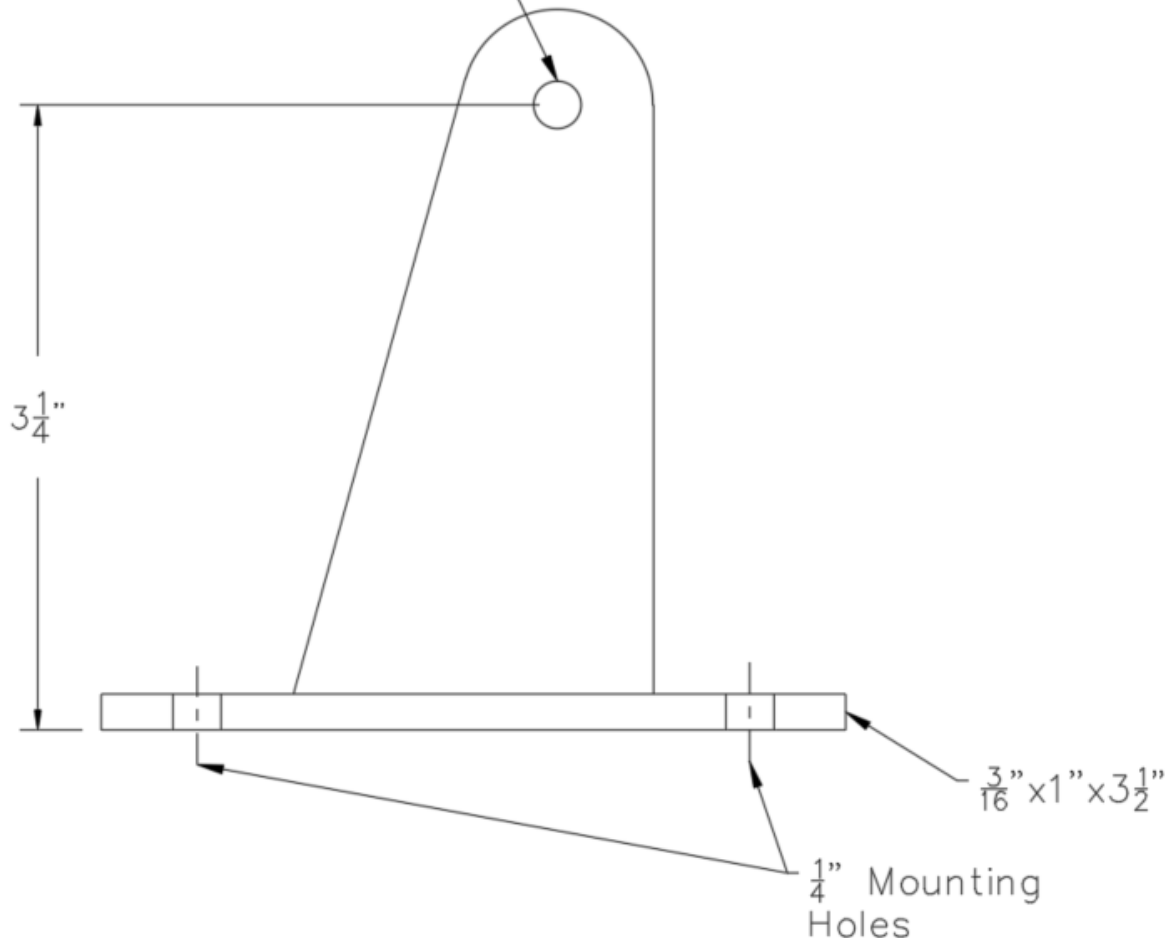


Shoulder Bolt  
( $\frac{5}{16}$ " Shank)

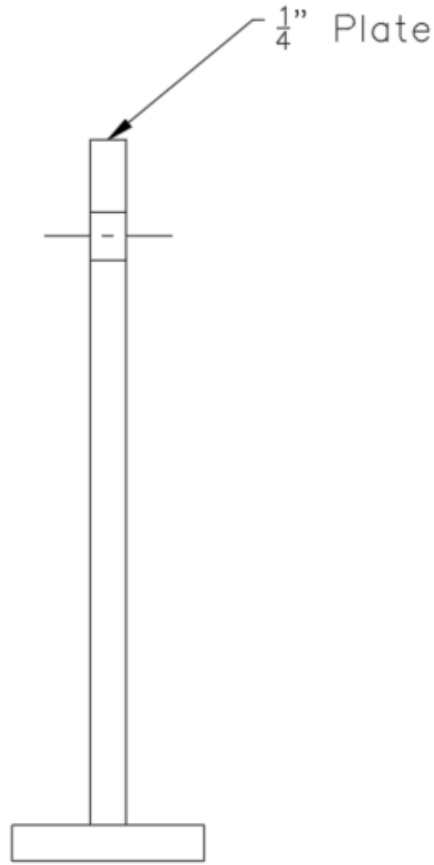


# PIVOT ARM SUPPORT BRACKET (Blower Exhaust End—Qty 2)

Drill & Tap For  $\frac{1}{4}$ "  
Threaded Shoulder Bolt



Side View

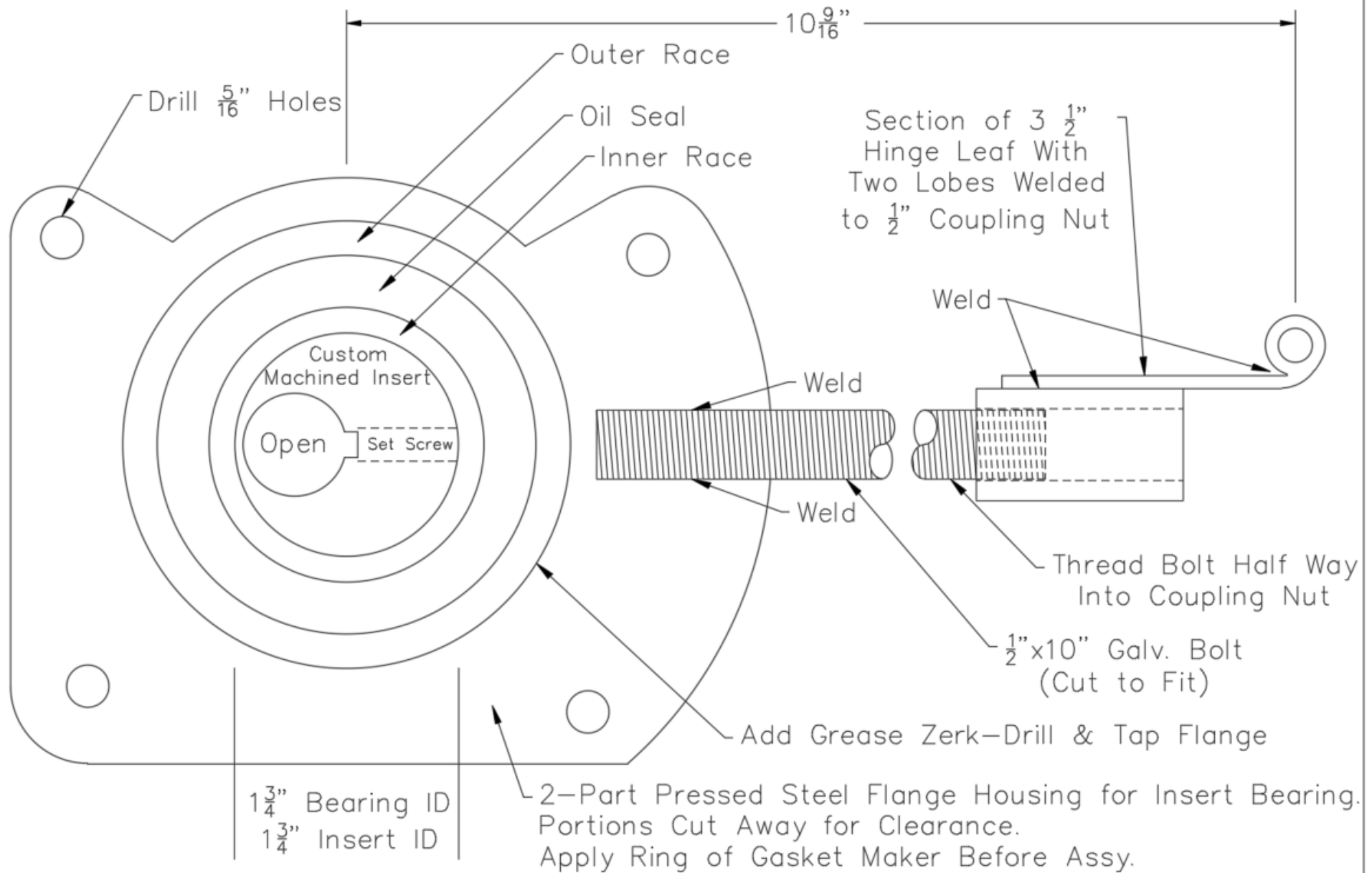


End View

Note: Use  $\frac{5}{16}$ " Shoulder Bolt With  $\frac{1}{4}$ " Threaded End (See Drawing 17)

Drawing 17 of 28  
Scale: 12"=12"

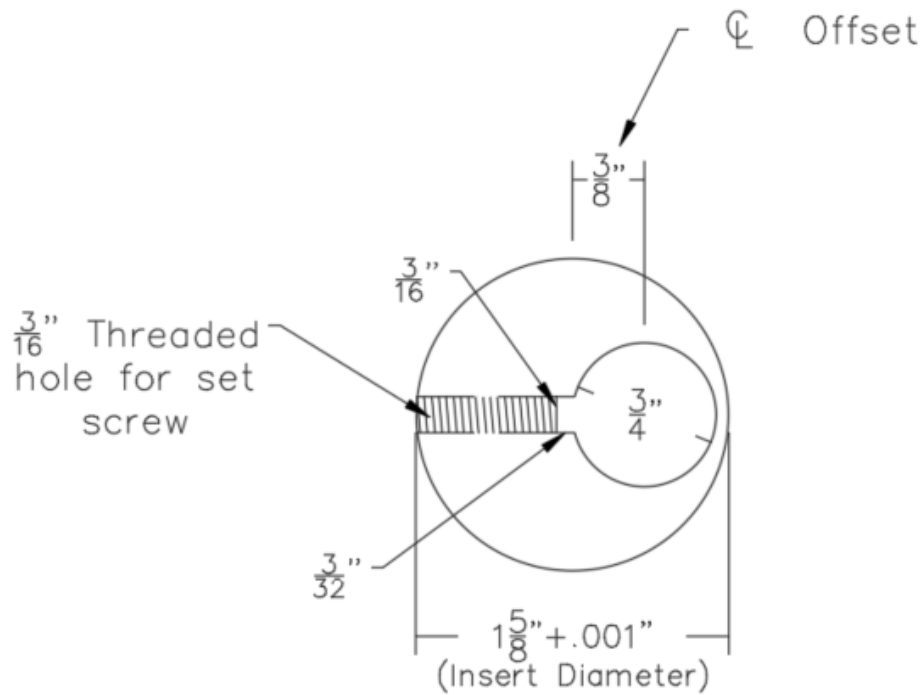
# ECCENTRIC BEARING DRIVE



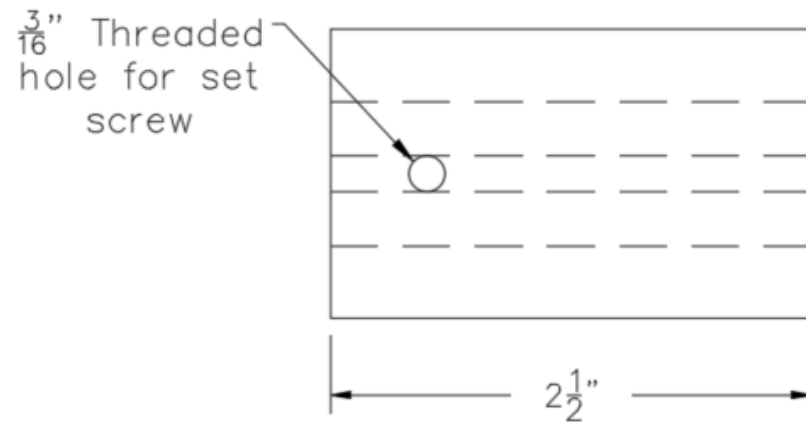
## Notes:

- Insert Machined with  $\frac{3}{4}$ " Bore, Offset  $\frac{3}{8}$ " from Centerline of Insert to Produce a  $\frac{3}{4}$ " Stroke per  $\frac{1}{2}$  Rotation.
- Broach a  $\frac{3}{16}$ "x $\frac{3}{32}$ " Keyway for  $\frac{3}{4}$ " Bore

# ECCENTRIC BEARING INSERT



End View

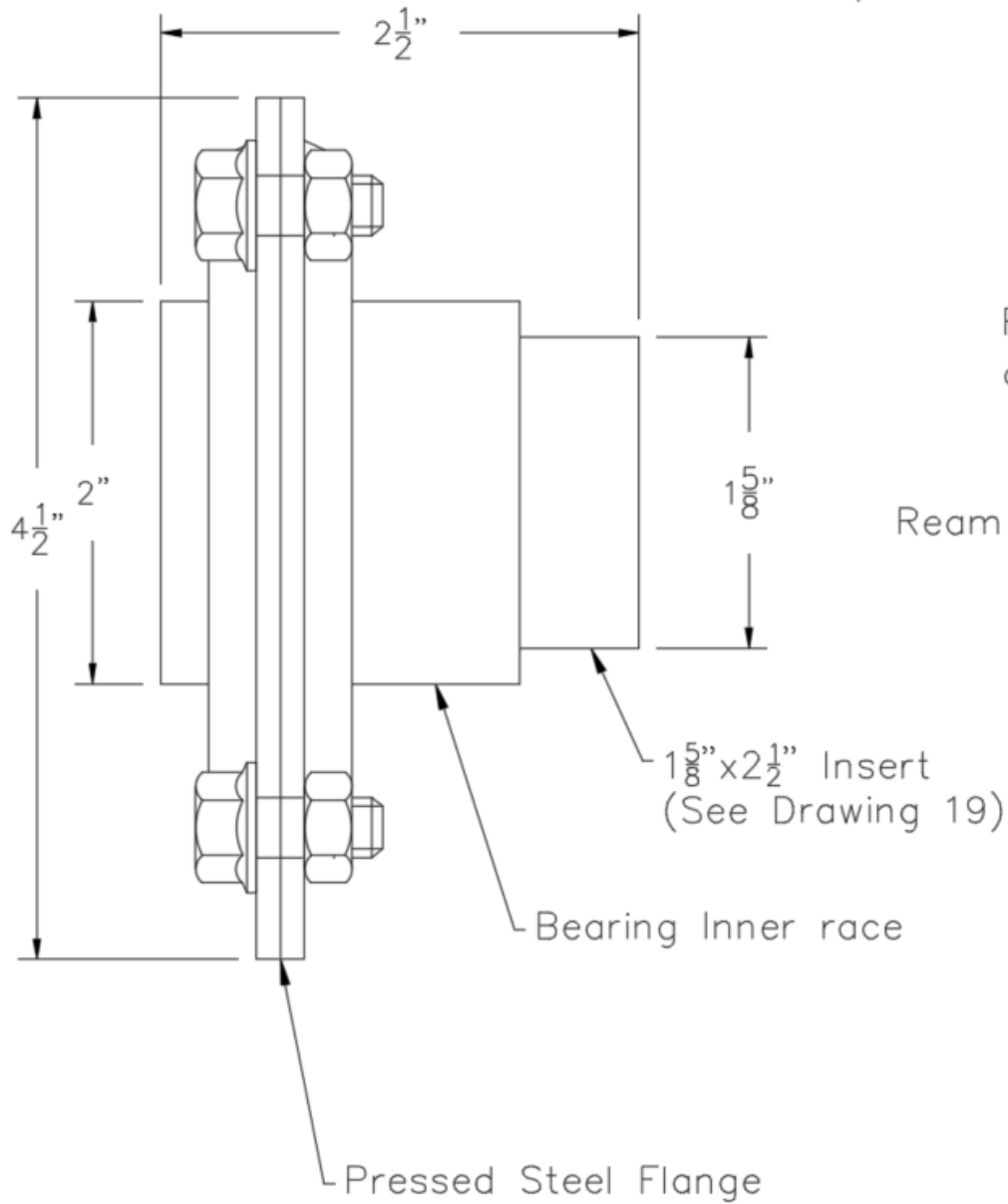


Side View

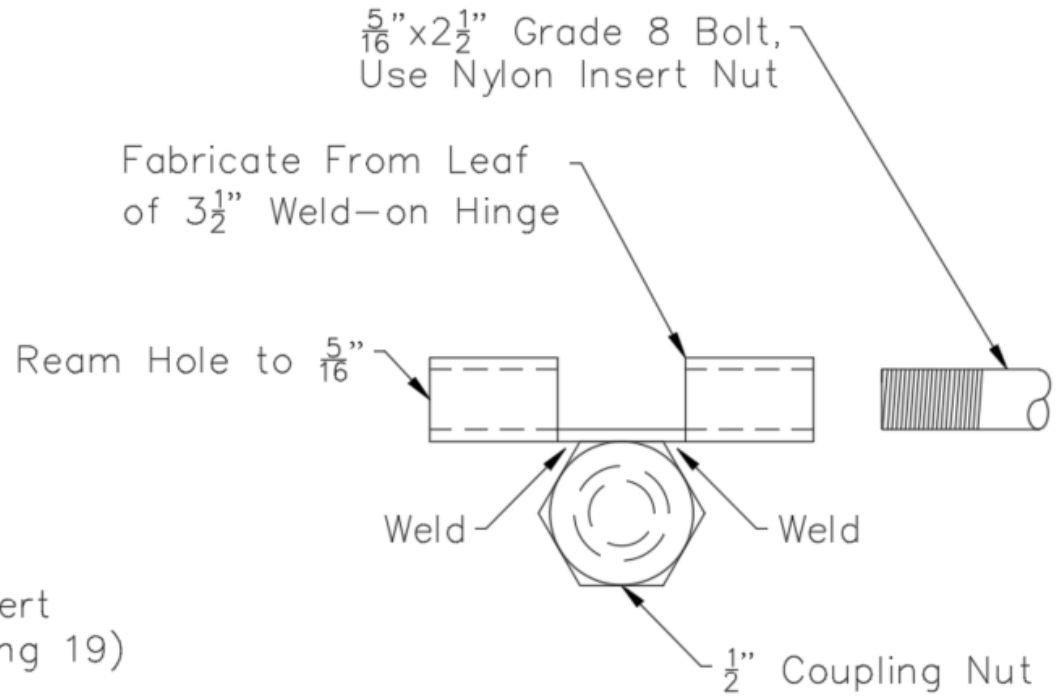
**Notes:**

- This Part is to be Inserted into a  $1\frac{5}{8}$ " Bore Bearing.
- A  $\frac{3}{4}$ " Shaft will be Inserted into the Bored Hole that is Offset  $\frac{3}{8}$ " from the Centerline of the Machined Cylinder

# ECCENTRIC BEARING DRIVE ASSEMBLY (End View)

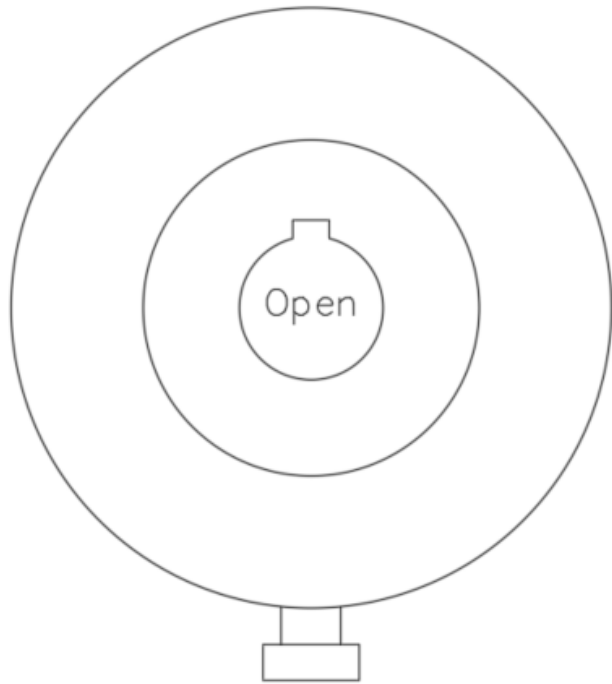


Bearing & Flange  
(End View)

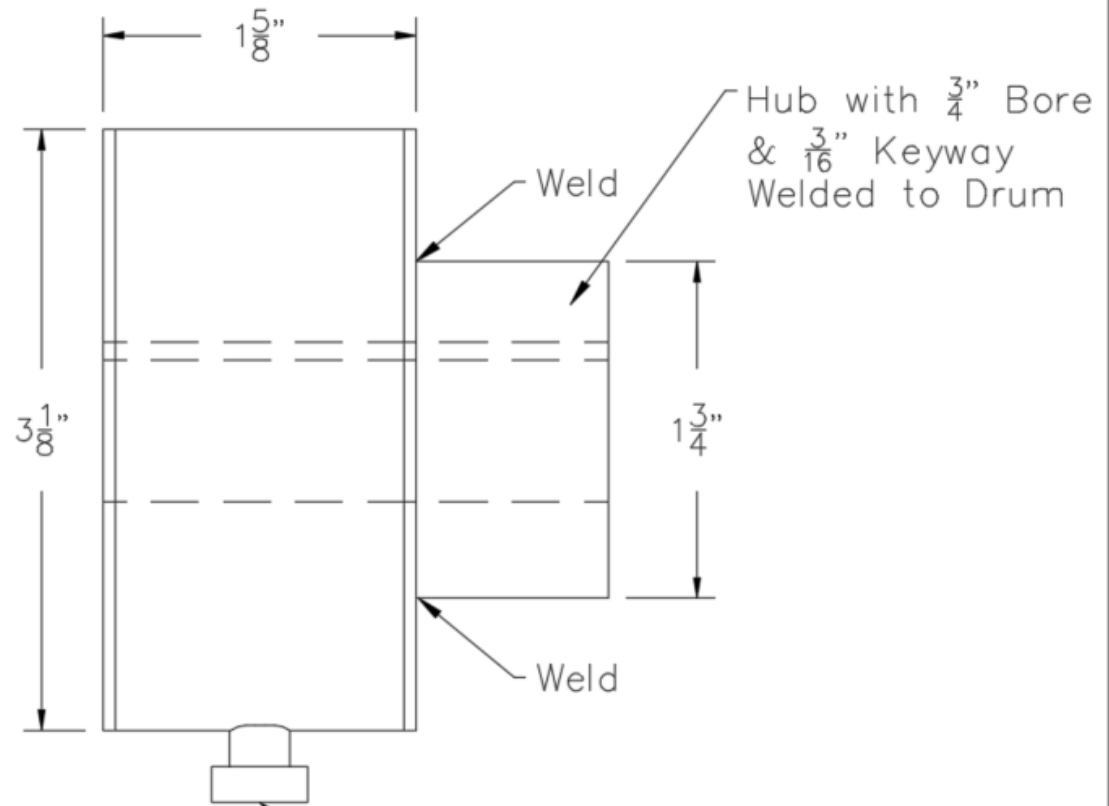


Push Rod Bracket  
(End View)

# ECCENTRIC BEARING SHAFT DYNAMIC BALANCER (One on Each Side of Eccentric Bearing)



End View

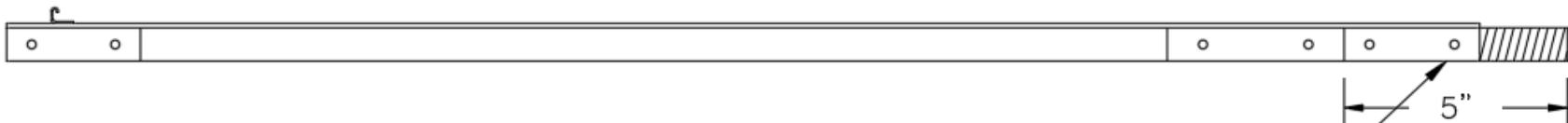
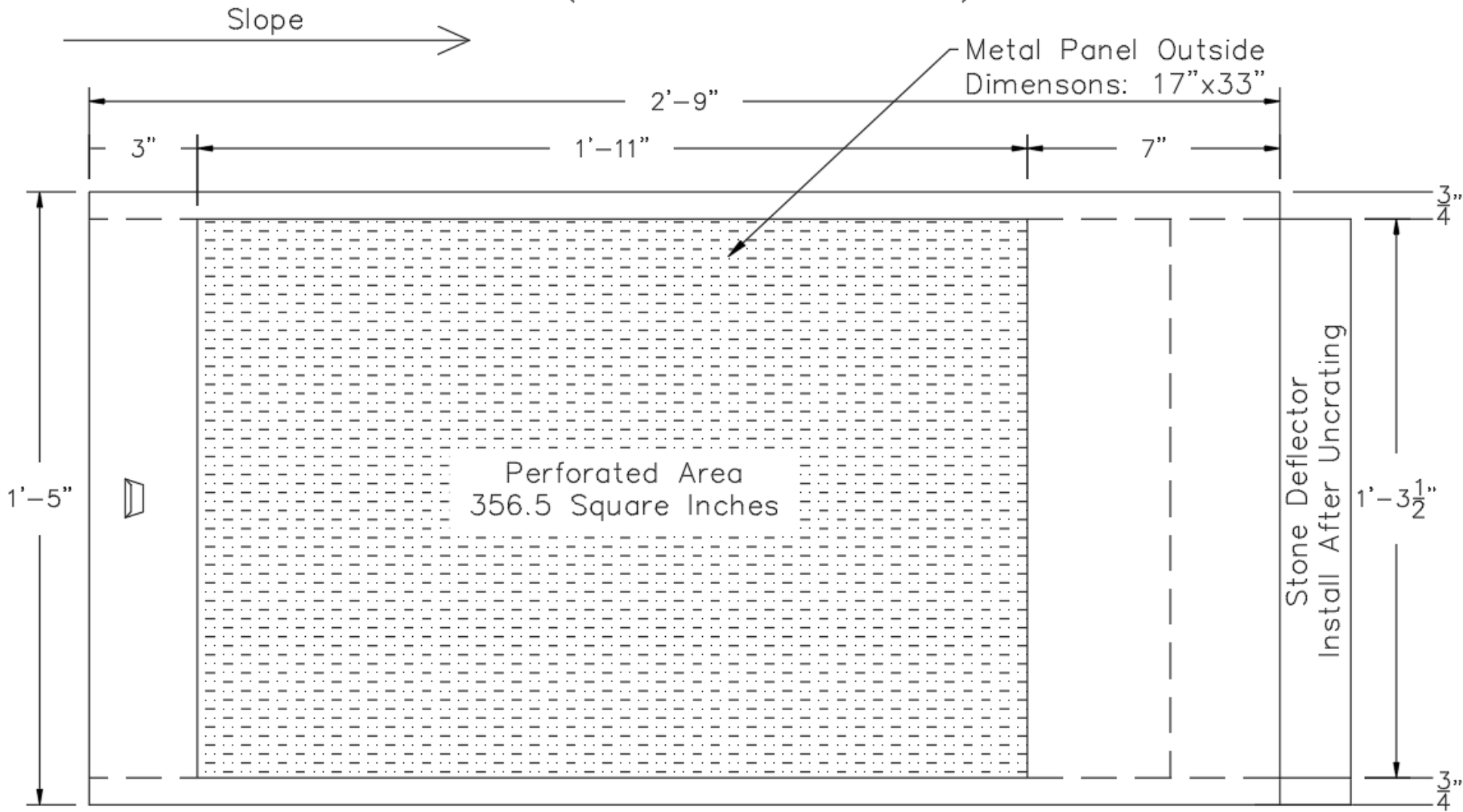


Side View

**Notes:**

- Drum Made from Section of  $2\frac{1}{2}$ " EMT Coupling.
- Weld Ends on( $\frac{1}{16}$ " Steel Plate)
- Fill Drum  $\frac{1}{2}$  full of BBs-Add or Subtract for Smoothest Operation

# SCALPING SCREENS (1-Rice, 1-Beans)

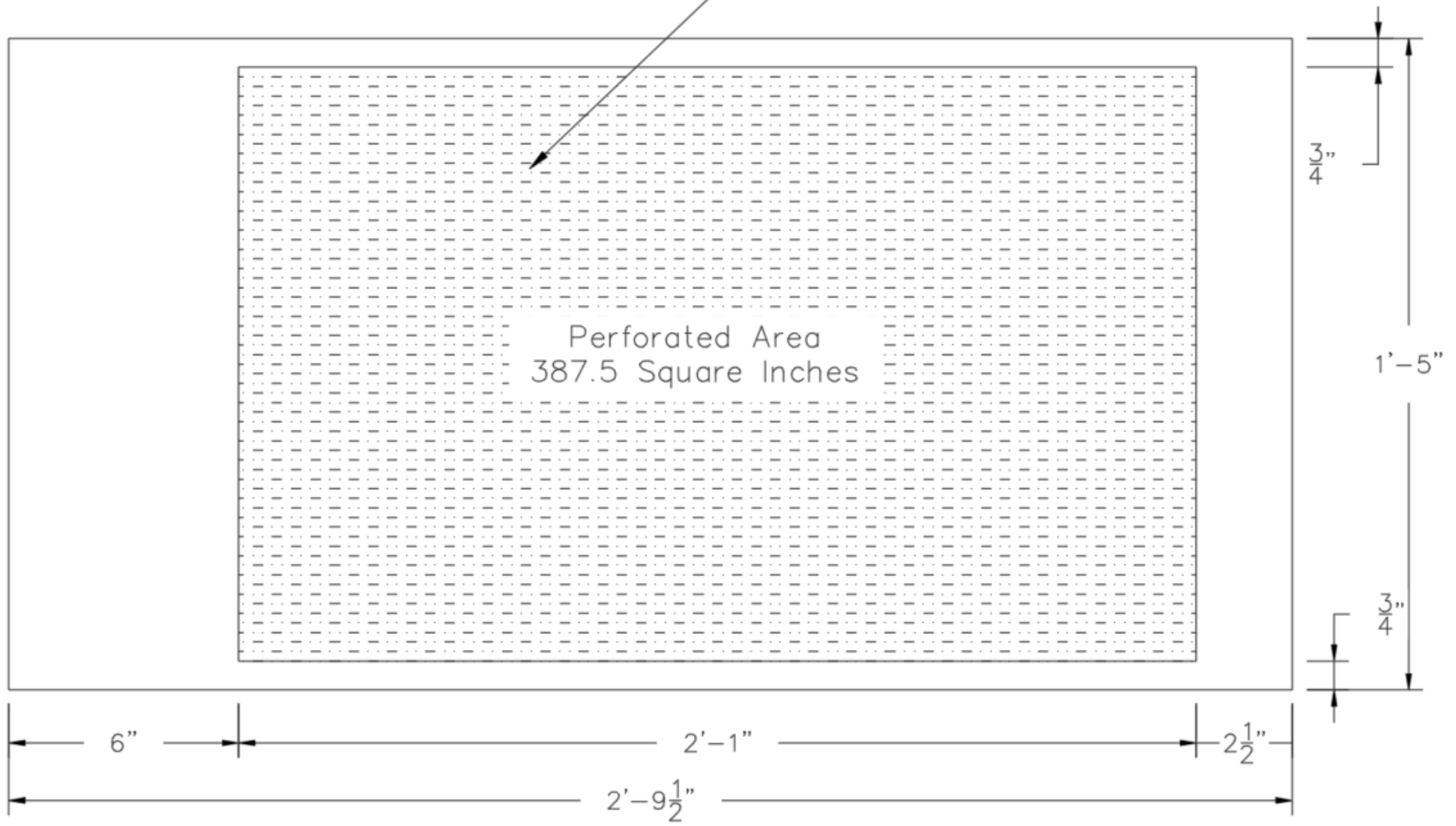


5"x1'-3 1/2"x3/4"  
Stone Deflector

Drawing 22 of 28  
Scale: 3"=12"

GRADING SCREENS  
(1-Rice, 1-Beans)  
(Retain 75%, Pass 25%)

Metal Panel Outside  
Dimensions: 17" x 33 $\frac{1}{2}$ "



Perforated Area  
387.5 Square Inches

6"

2'-1"

2 $\frac{1}{2}$ "

2'-9 $\frac{1}{2}$ "

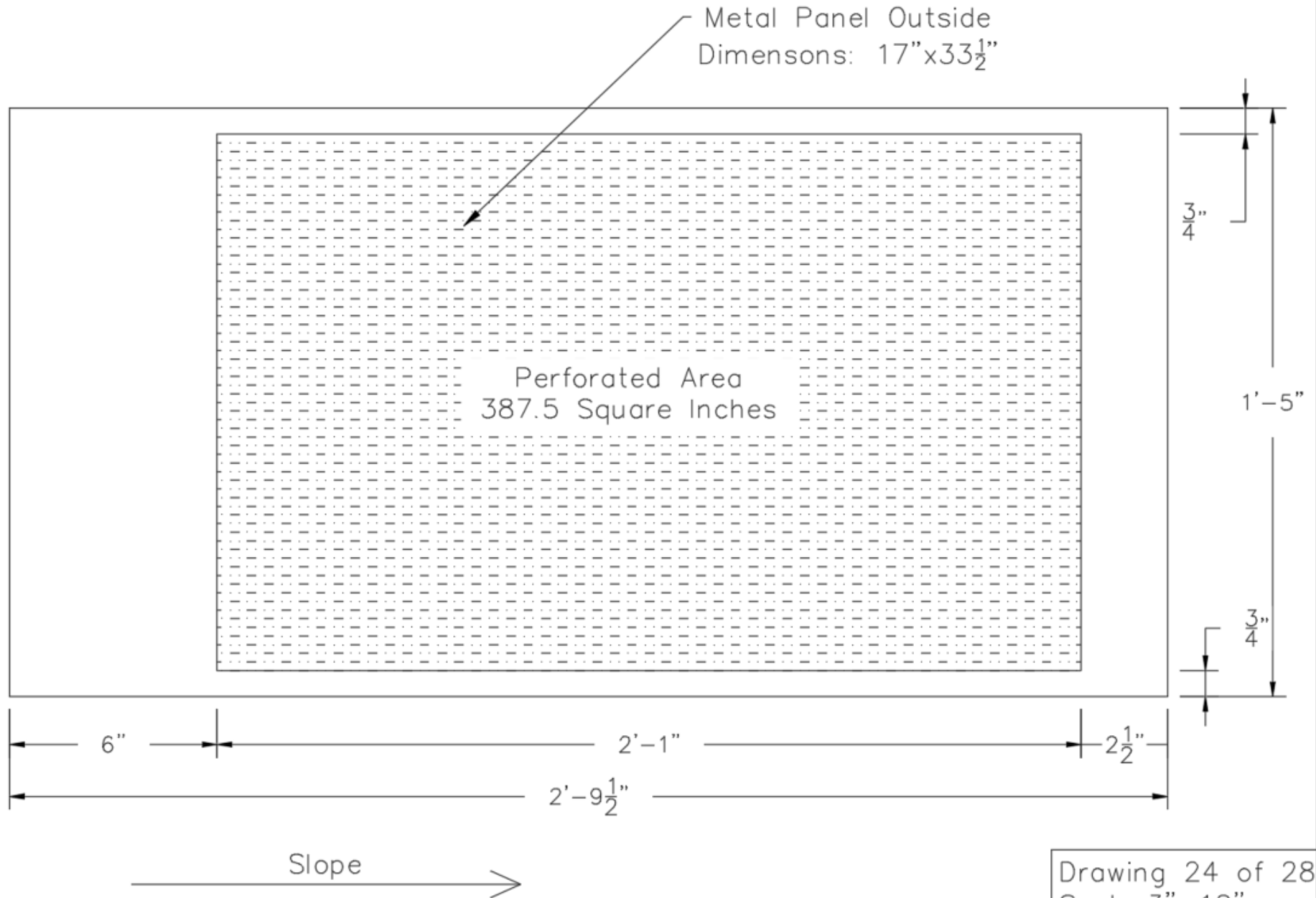
3 $\frac{3}{4}$ "

1'-5"

3 $\frac{3}{4}$ "

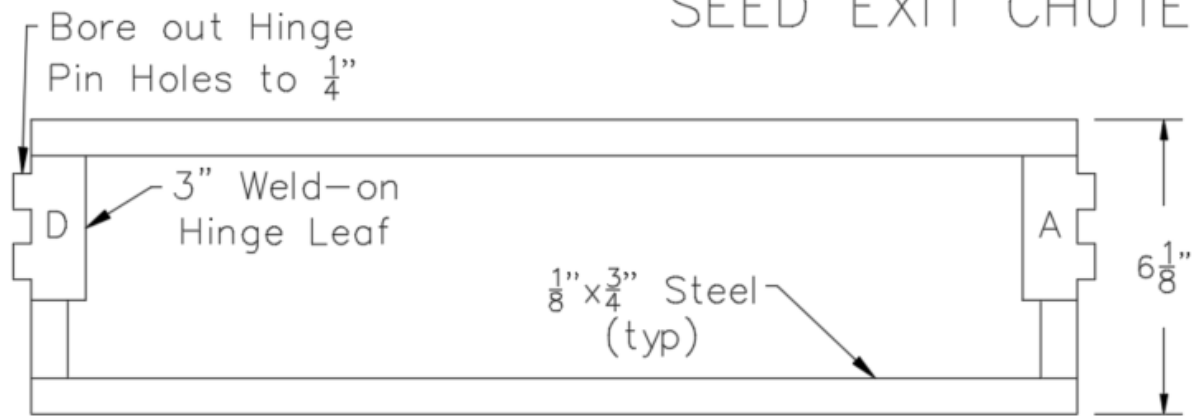
Slope

# FINES SCREEN (1, Size for Rice, Will Work for Beans)

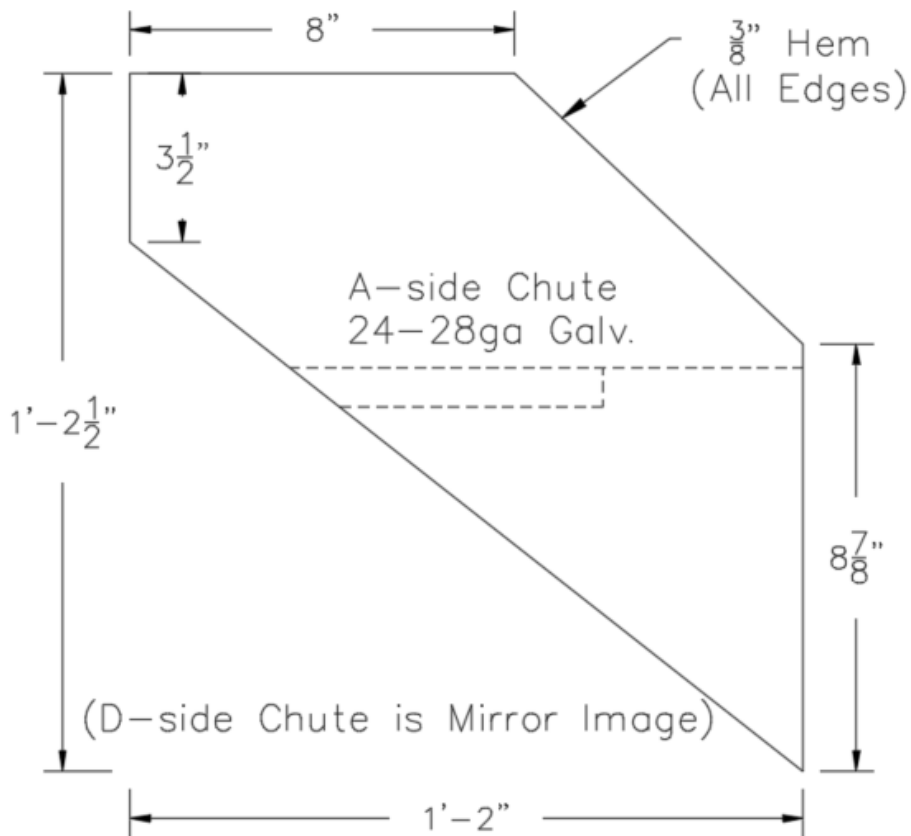
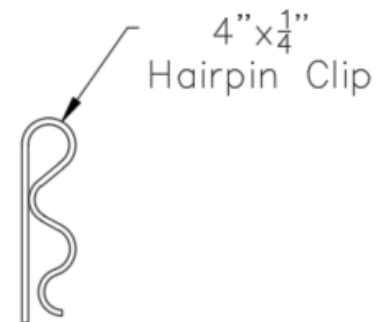




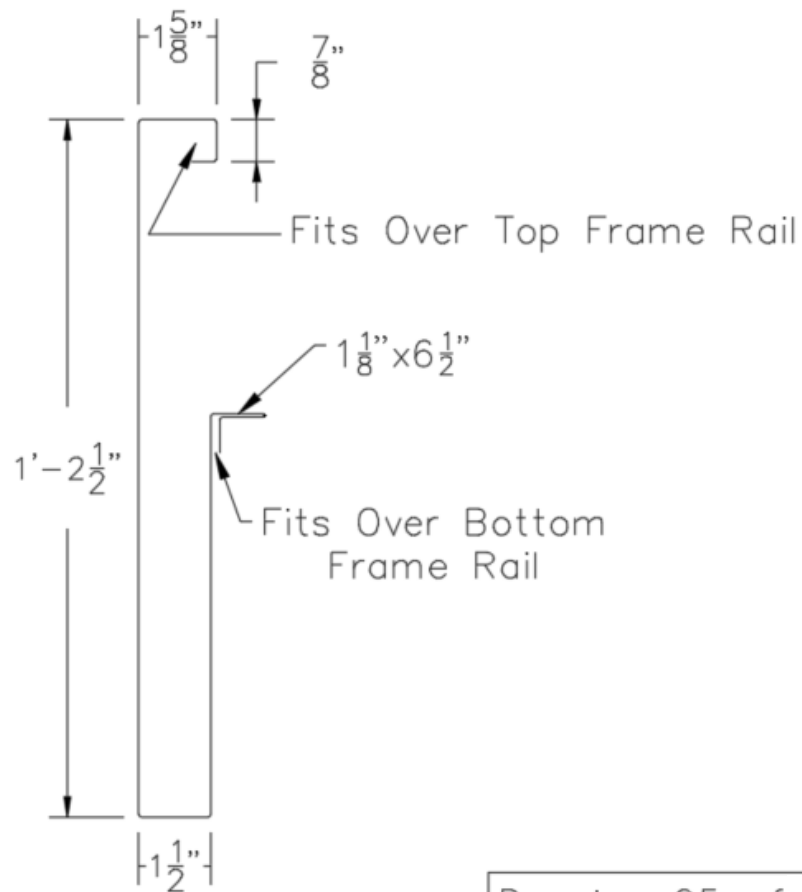
# SEED EXIT CHUTES



Chute Support Frame

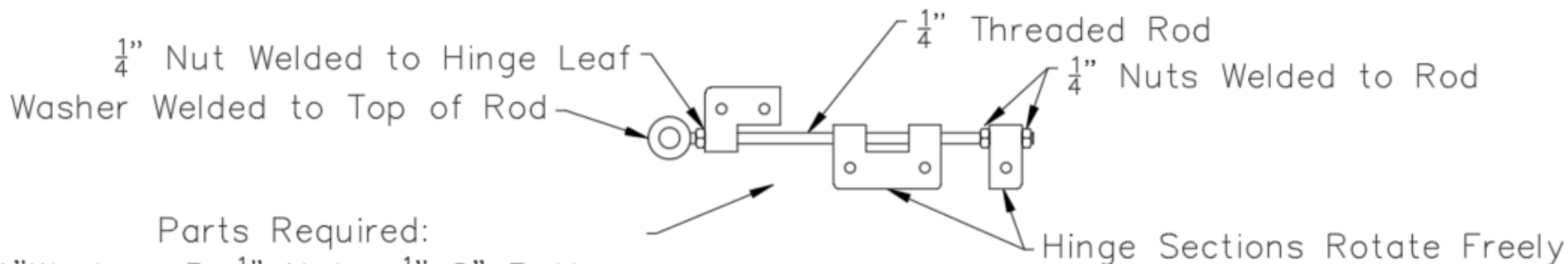
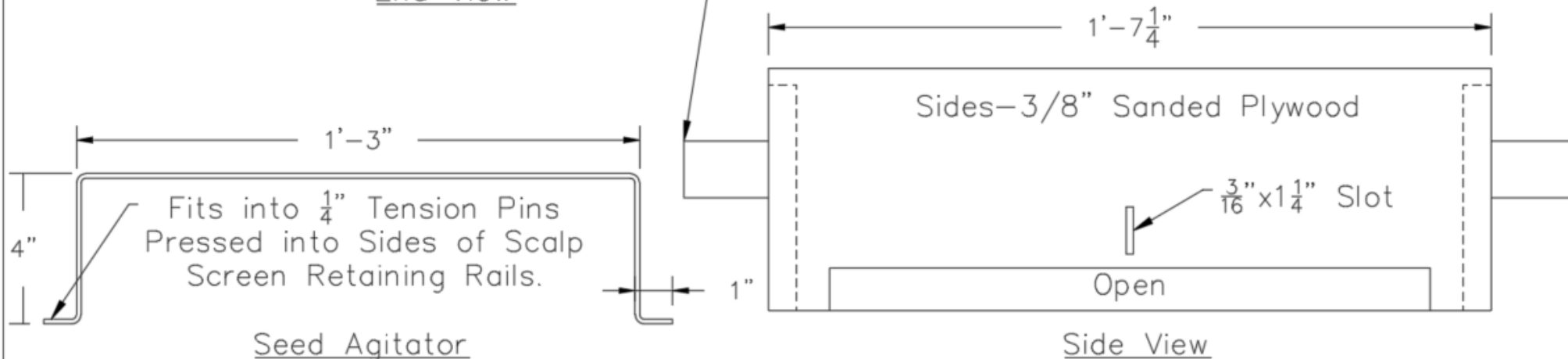
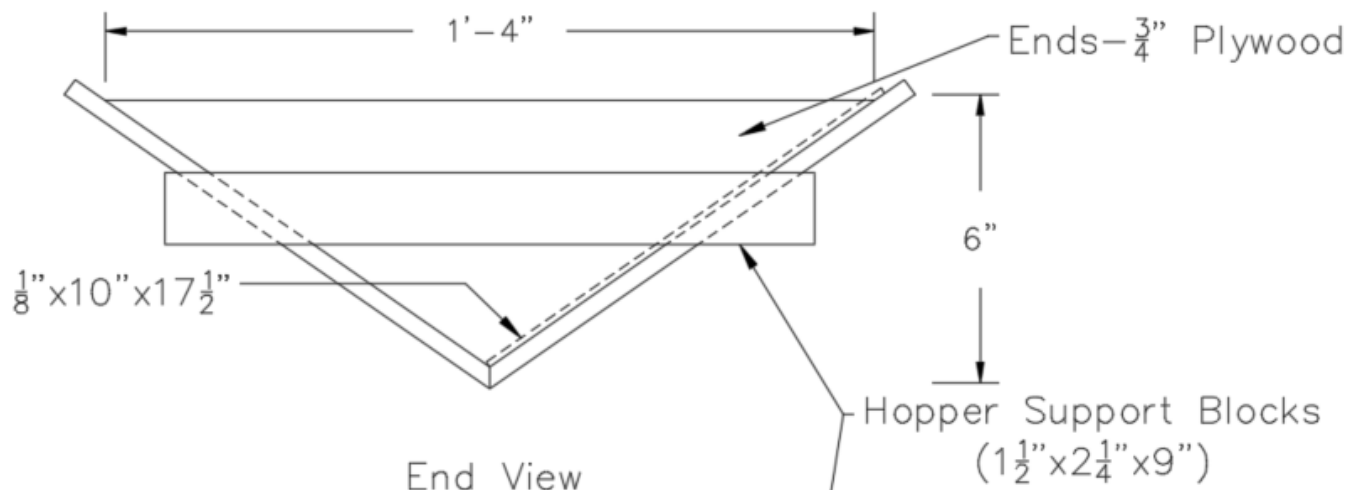


Front View



Side View

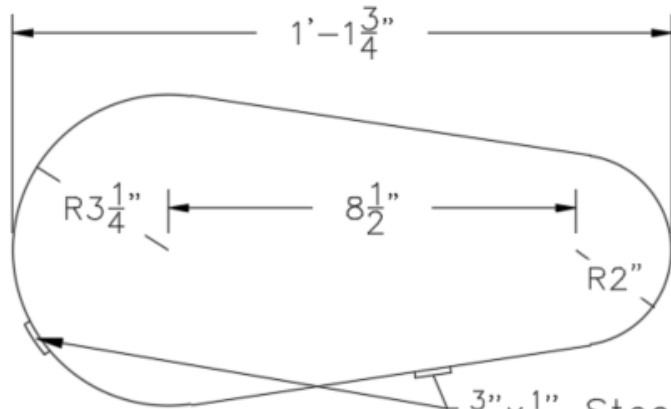
# SEED HOPPER



- Parts Required:  
 1-1" Washer, 3- $\frac{1}{4}$ " Nuts,  $\frac{1}{4}$ " x 8" Battery  
 Tie-down Rod, 2 $\frac{1}{2}$ " Weld-on Hinge

Flow Control Mechanism

# PULLEY & BELT GUARDS



$\frac{3}{4}$ " x  $\frac{1}{8}$ " Steel Strap Secured to Pillow Block Mounting Bolts



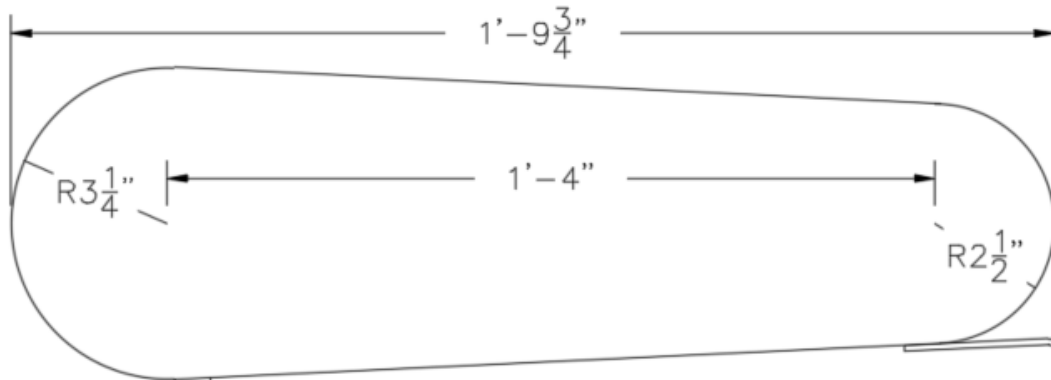
Bend to Fit

Slide up on  $\frac{3}{8}$ " Pillow Block Bolts

## D-side Eccentric Drive Guard

Eccentric Drive-6" Pulley  
Fan Shaft-2" Pulley  
Belt: 4L-29

\*\*Fold 3" x 34" 24-28ga Galv. Sheet Metal Length-wise. Wrap Around a Last (mould) From 2x8 Board. Form  $\frac{1}{2}$ " Hardware Cloth Over the Mould. Force Edges of the Cloth Into Sheet Metal Slot & Fasten with Pop Rivets.



Slide onto Blower Housing Bolt A

Bolt to Motor Mount



8-32 Bolt

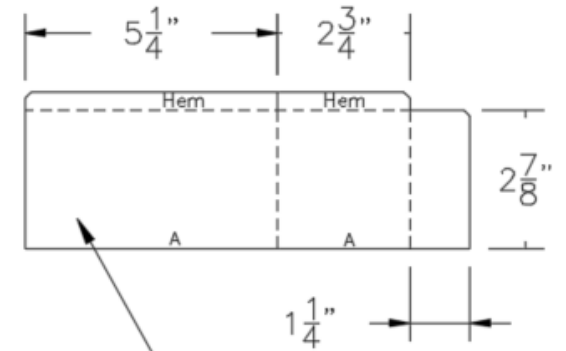
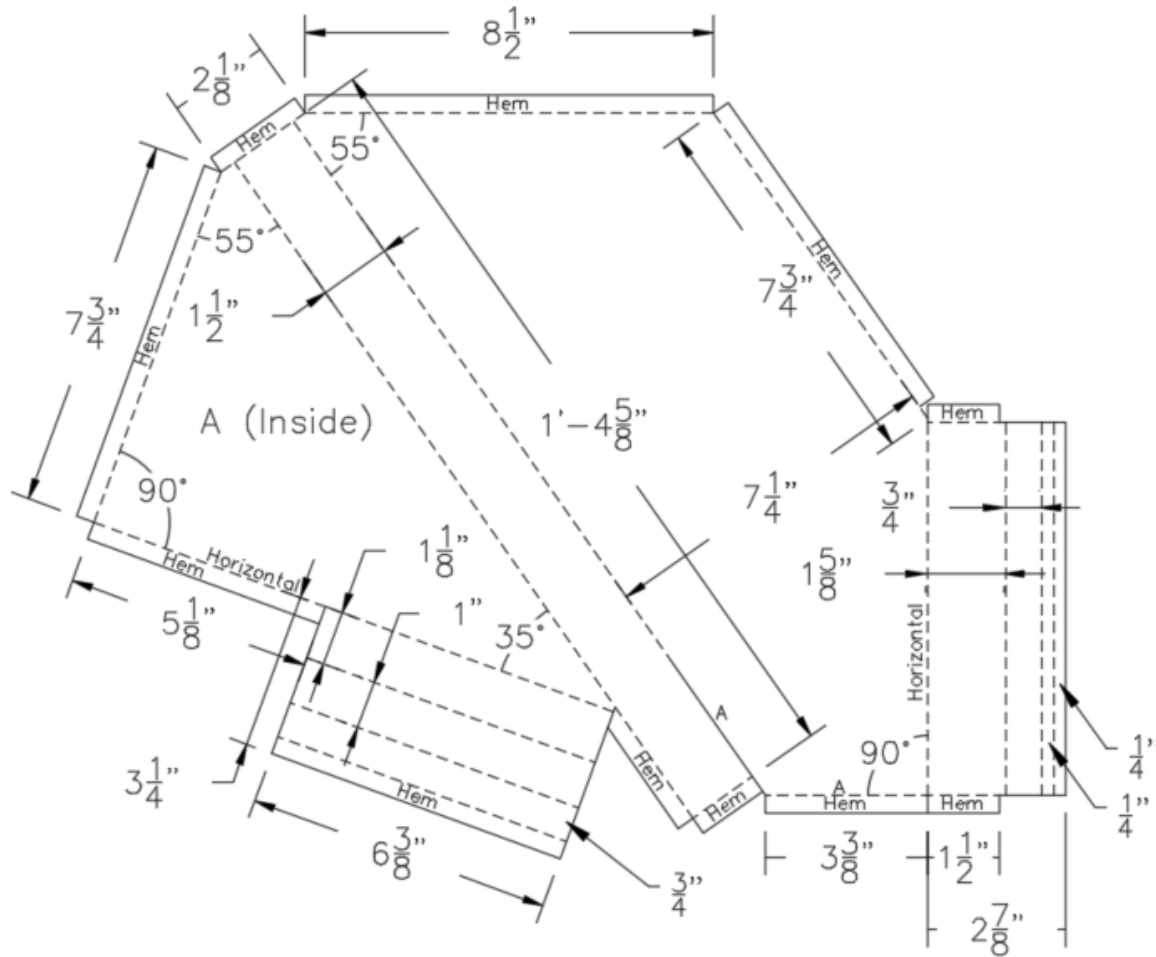
8-32 Bolt

## A-side Motor to Fan Drive Guard

\*\*Fold 3" x 50" 24-28ga Galv. Sheet Metal Length-wise. Form Around a 2x Wood Mould.

Drawing 27 of 28  
Scale: 3" = 12"

# SEED CLEANER CHUTE FOLDING PATTERN



This piece closes the gap at the inner edge of seed chute.

Note:  
 -Fold along all dashed lines.  
 -All Hems are  $\frac{3}{8}$ "

Drawing 28 of 28  
 Scale: 3"=12"