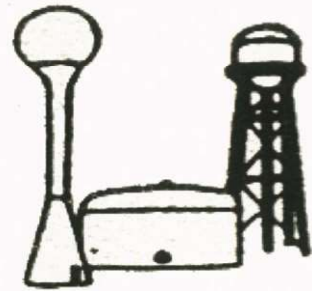
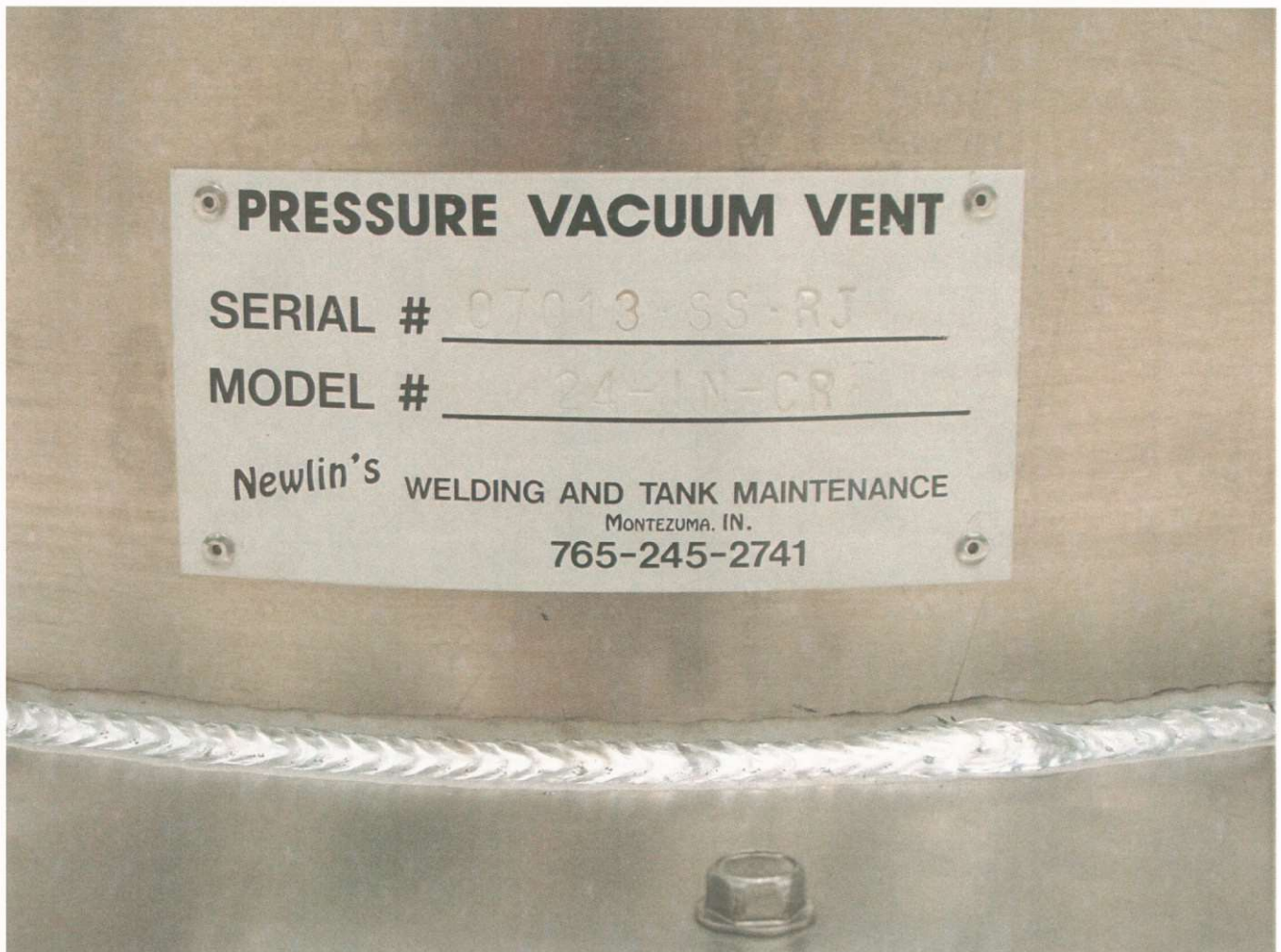


# Newlin's



## WELDING AND TANK MAINTENANCE

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**Jerry Newlin • Box 439 • Montezuma, IN 47862  
765-245-2741 • Mobile 765-592-0951  
FAX 765-245-2743**





Newlin's Welding & Tank Maintenance

24" Pressure Vacuum Vent

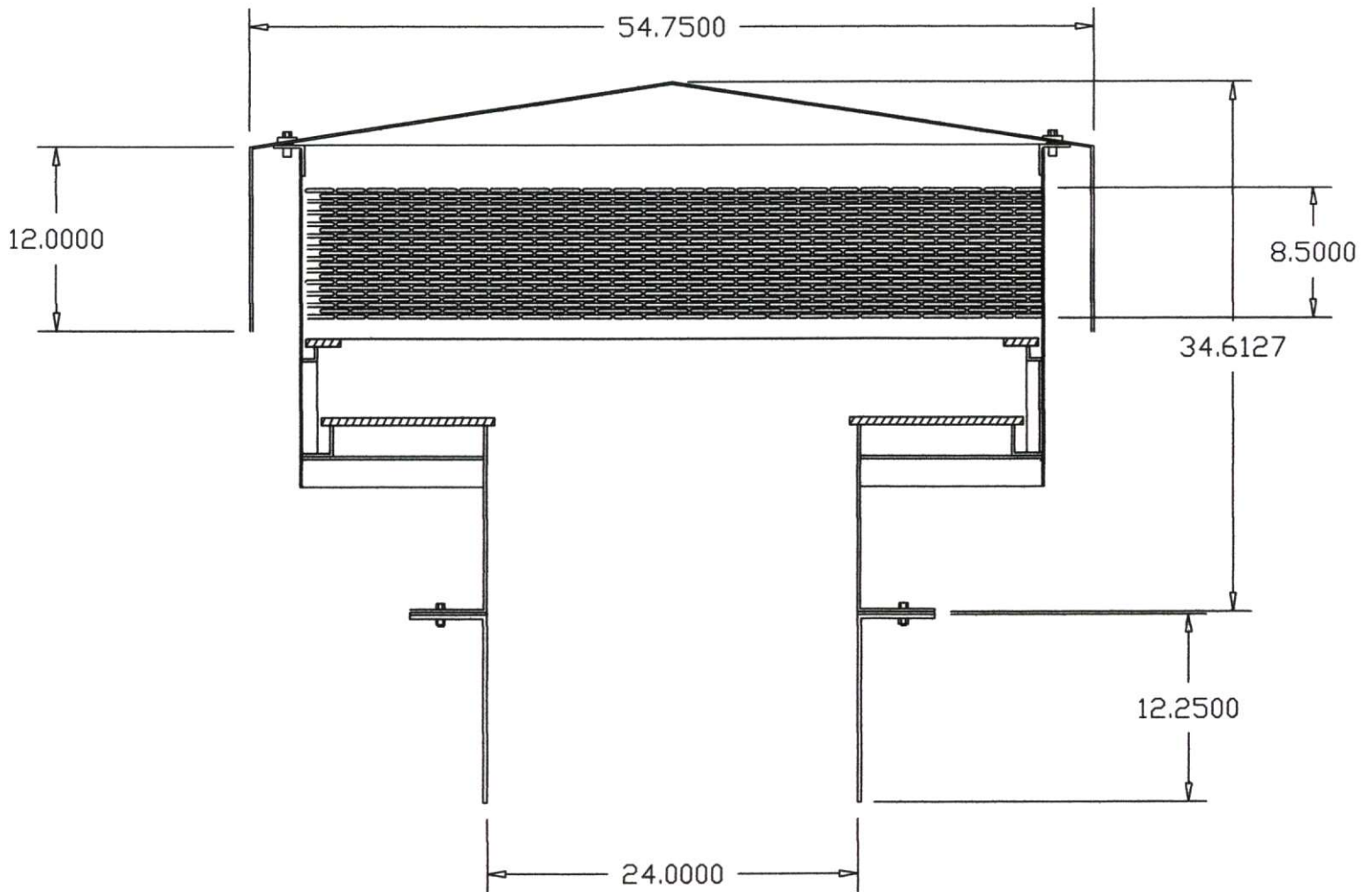


FIGURE-1

Newlin's Welding & Tank Maintenance

24" Pressure Vacuum Vent  
Weld specifications

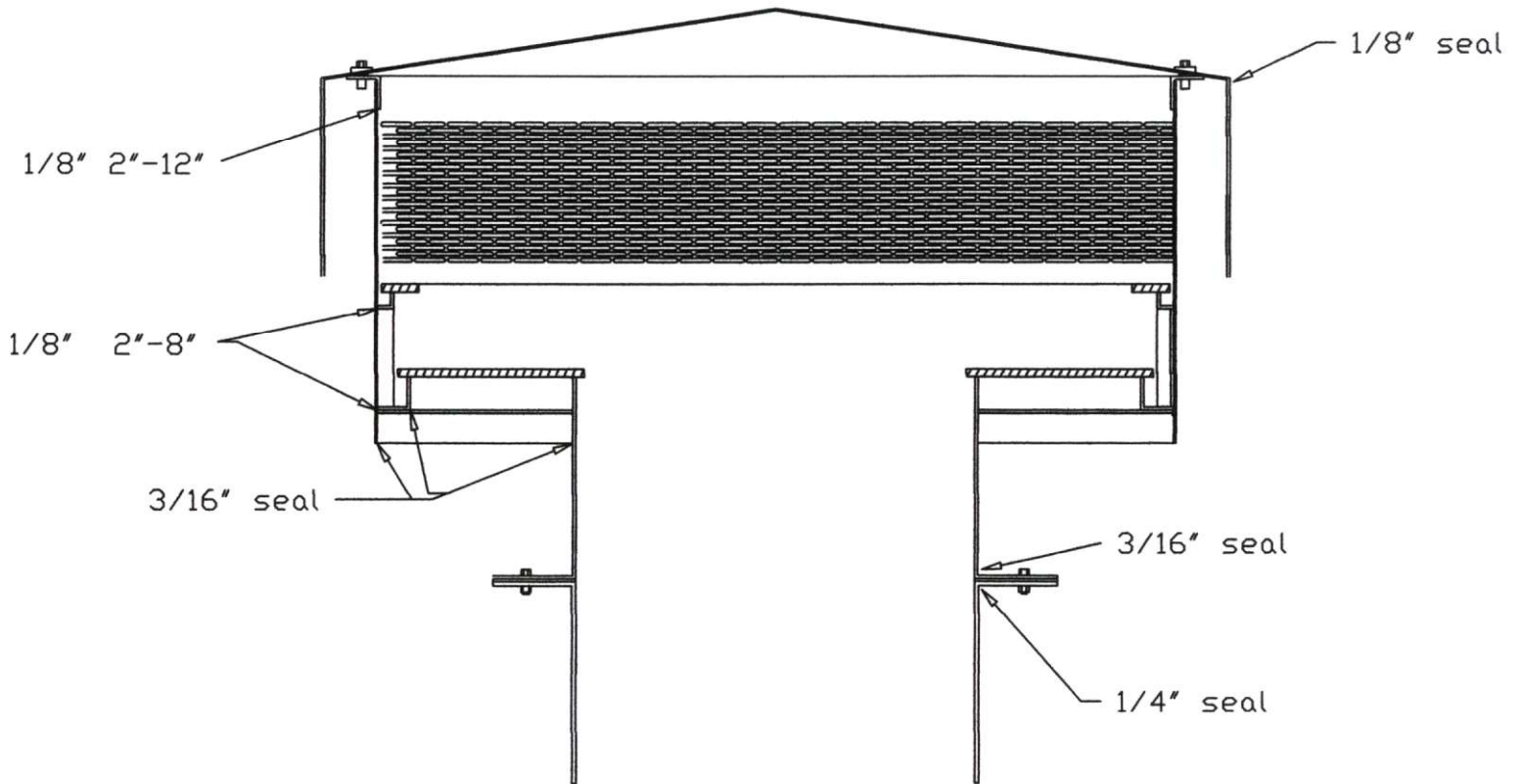


FIGURE 2

# Newlin's Welding & Tank Maintenance

## 24" Pressure Vacuum Vent

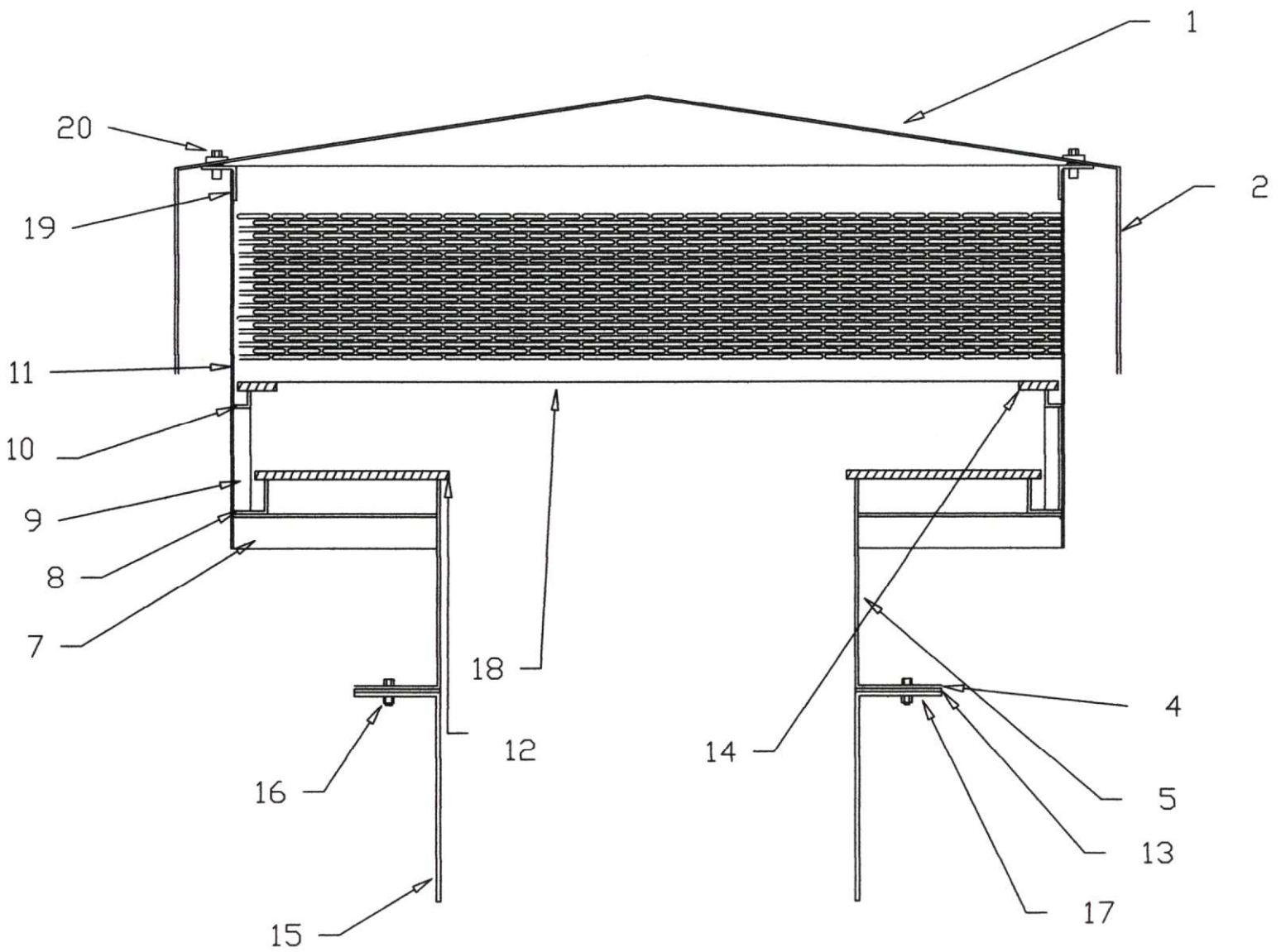


FIGURE-3

## Material Specification for 24" Vent

1. 1/8" x 54 3/4" plate coned to 1" in 12" min.
2. 1/8" x 12" plate rolled to 54 3/8" I.D.
- 3.
4. 24" I.D. x 34" O.D. x 3/16" plate  
bolt circle (8) 7/16" dia. Holes @ 15" rad.
5. 12" x 3/16" plate rolled to 24" I.D.
- 6.
7. (6) 2" x 2" x 3/16" angle 11 7/8" long
8. 2" x 2" x 3/16" angle rolled leg out to 48" O.D.
9. (6) 1" x 1" x 6" angle
10. 1" x 1" x 3/16" angle rolled leg out to 48" O.D.
11. 1/8" x 22" plate with integrated bird screen rolled to 48" I.D.
12. Linear High Density Poly-Ethylene vacuum pallet 45 1/2" O.D x 23" I.D. 1/2" tk.
13. 1/8" red rubber gasket 24" I.D. 34" O.D.
14. Linear High Density Poly-Ethylene pressure pallet 47 1/2" O.D. 43" I.D. 1/2" tk.
15. 1/4" x 12" steel plate rolled to 24" I.D.
16. 3/8" x 1" s.s. bolt and nut
17. 1/4" steel plate 24 1/2" I.D. x 34" O.D.
18. 16 x 16 x .018 316 s.s. screen 47 1/2" O.D.
19. 2" x 2" x 3/16" angle rolled leg out to 47 5/8" I.D.
20. 3/8" x 1 1/4" s.s. bolt and 3/8" wedge washer

All Material is 3003 or 5052 aluminum Unless noted otherwise

All dimensions +/- 1/8" in tolerance

# Newlin's Welding & Tank Maintenance

## Bird screen detail

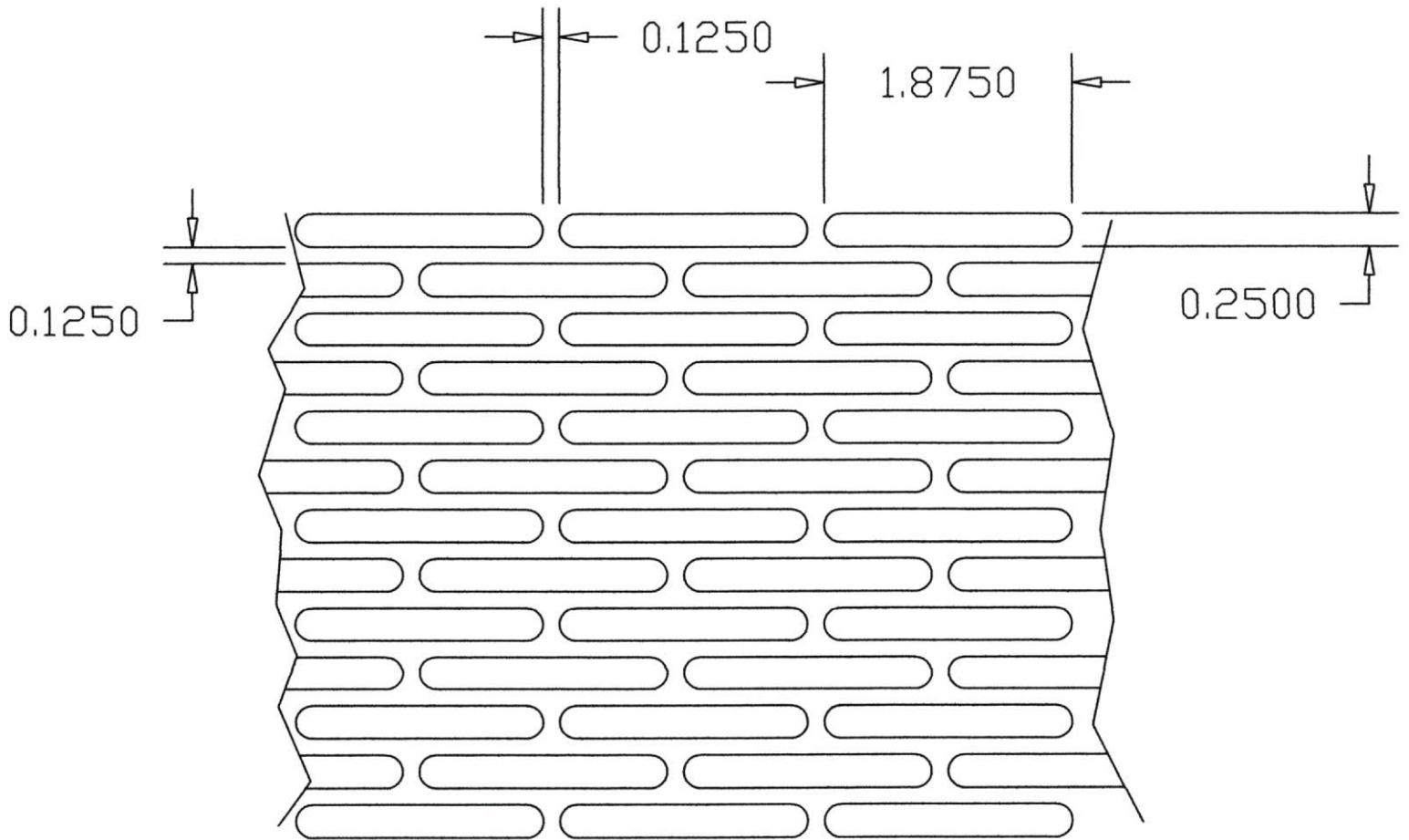
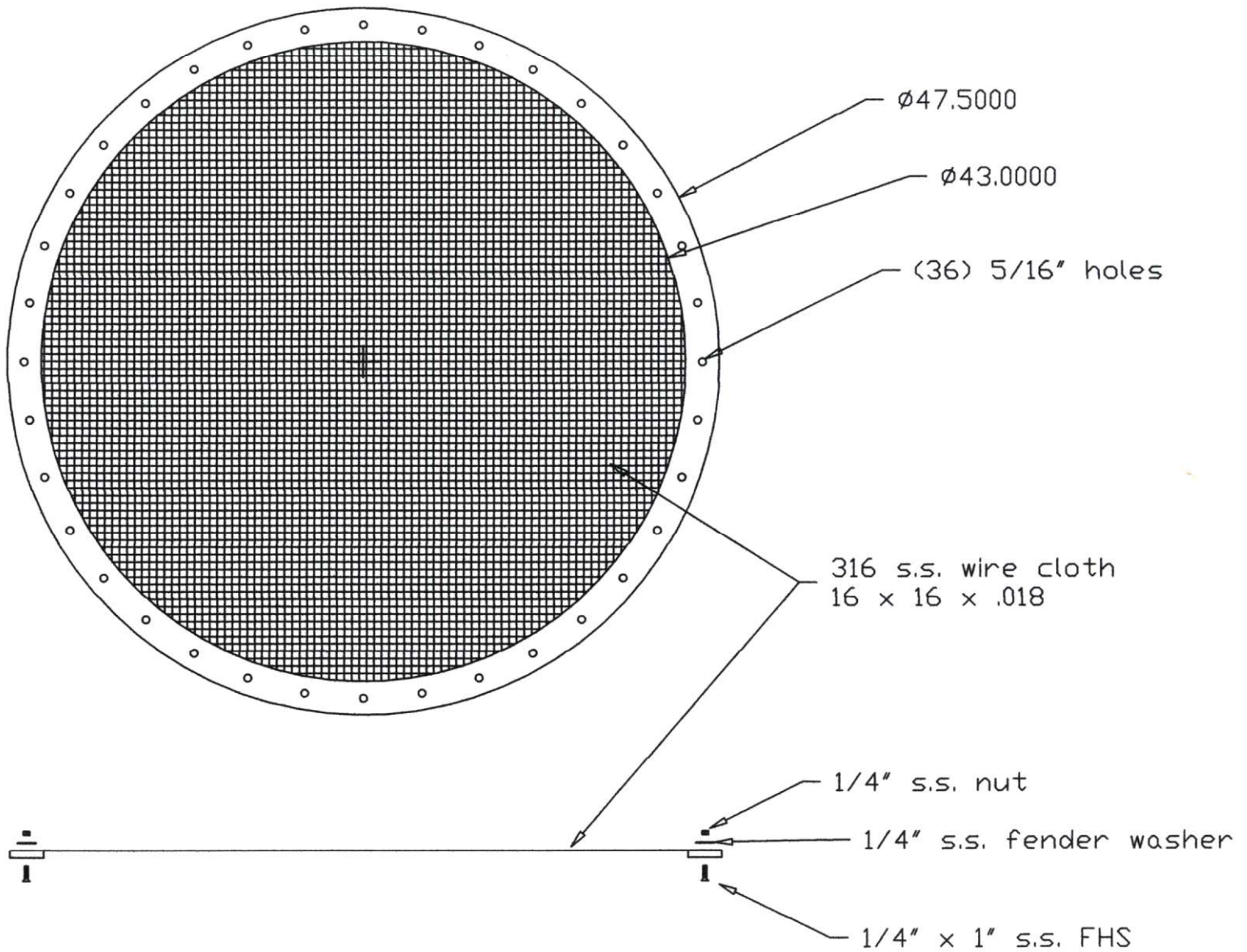


FIGURE-4



# Newlin's Welding & Tank Maintenance

## 24" Pressure Pallet



Bolt heads are to be countersunk into pressure pallet.

FIGURE-5

Newlin's Welding & Tank Maintenance

Lid connection  
(4 required)

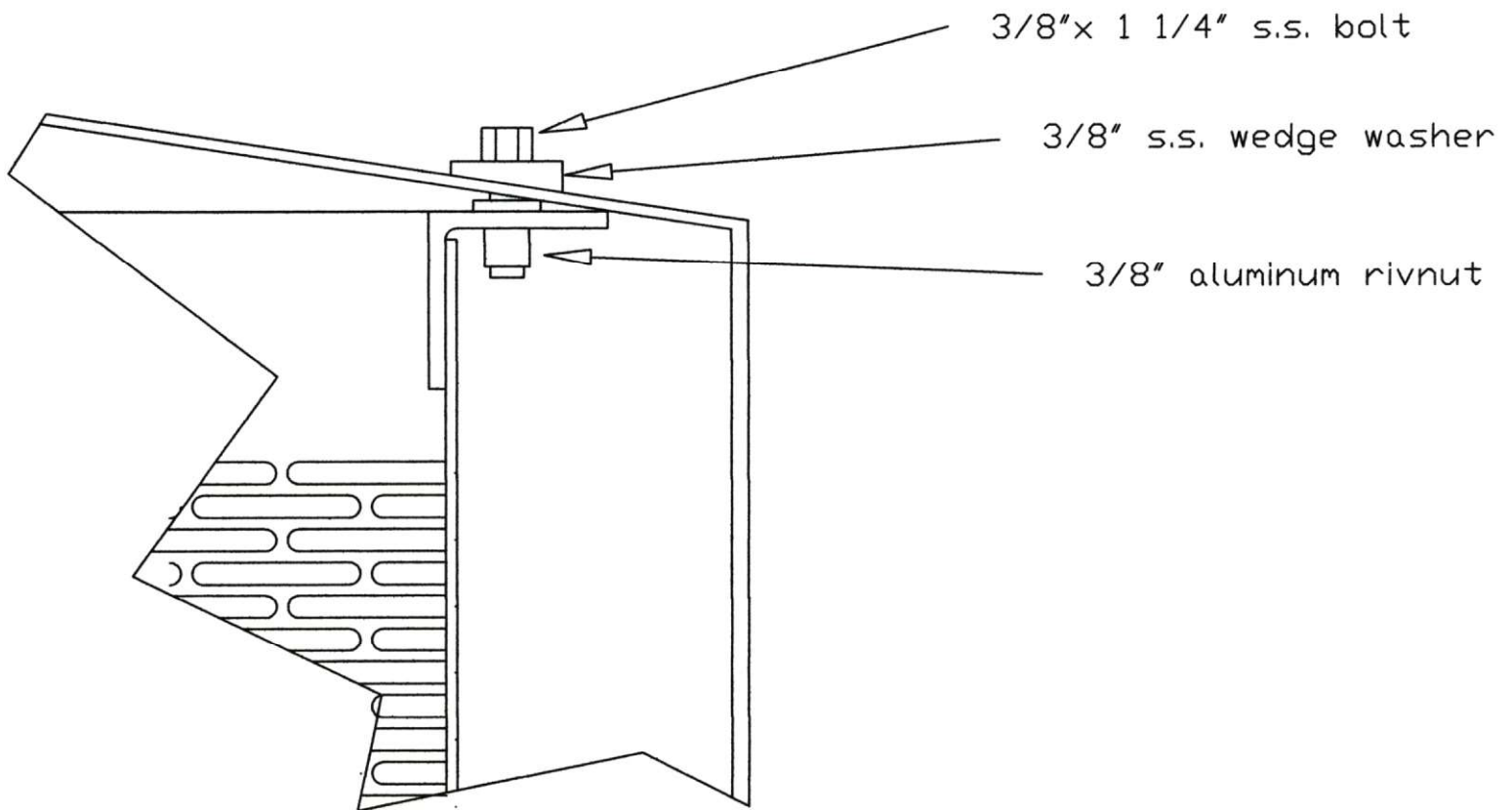


FIGURE-6

## Installation and Operating Instructions

- 1)- Vent must be installed plumb to ensure proper functioning
- 2)- All s.s. fasteners to be antiseized to prevent gaulding
- 3)- Vacuum and pressure pallets must lay flat in their proper position after installing.
- 4)- Annually inspect and clean out the vent interior.
- 5)- More frequent inspection and cleaning may be required if unusually severe dust conditions exist.
- 6)- The pallets and interior surfaces of the vent should not be painted. If the exterior surfaces are to be painted, these surfaces should be hand-roughed with sand paper and solvent washed prior to coating.  
**Do Not Sand Blast**
- 7)- The vacuum and pressure relief pallets should be removed during cleaning and painting of the tank to prevent them from clogging.
- 8)- When pallets are removed from the vent for an extended period of time they should be laid on a flat surface to prevent warping.
- 8)- Newlin's Welding and Tank Maintenance Installs a name tag with model and serial numbers on all of their vent's.





Newlin's Welding & Tank Maintenance

24" Pressure Vacuum Vent  
(Vandal)

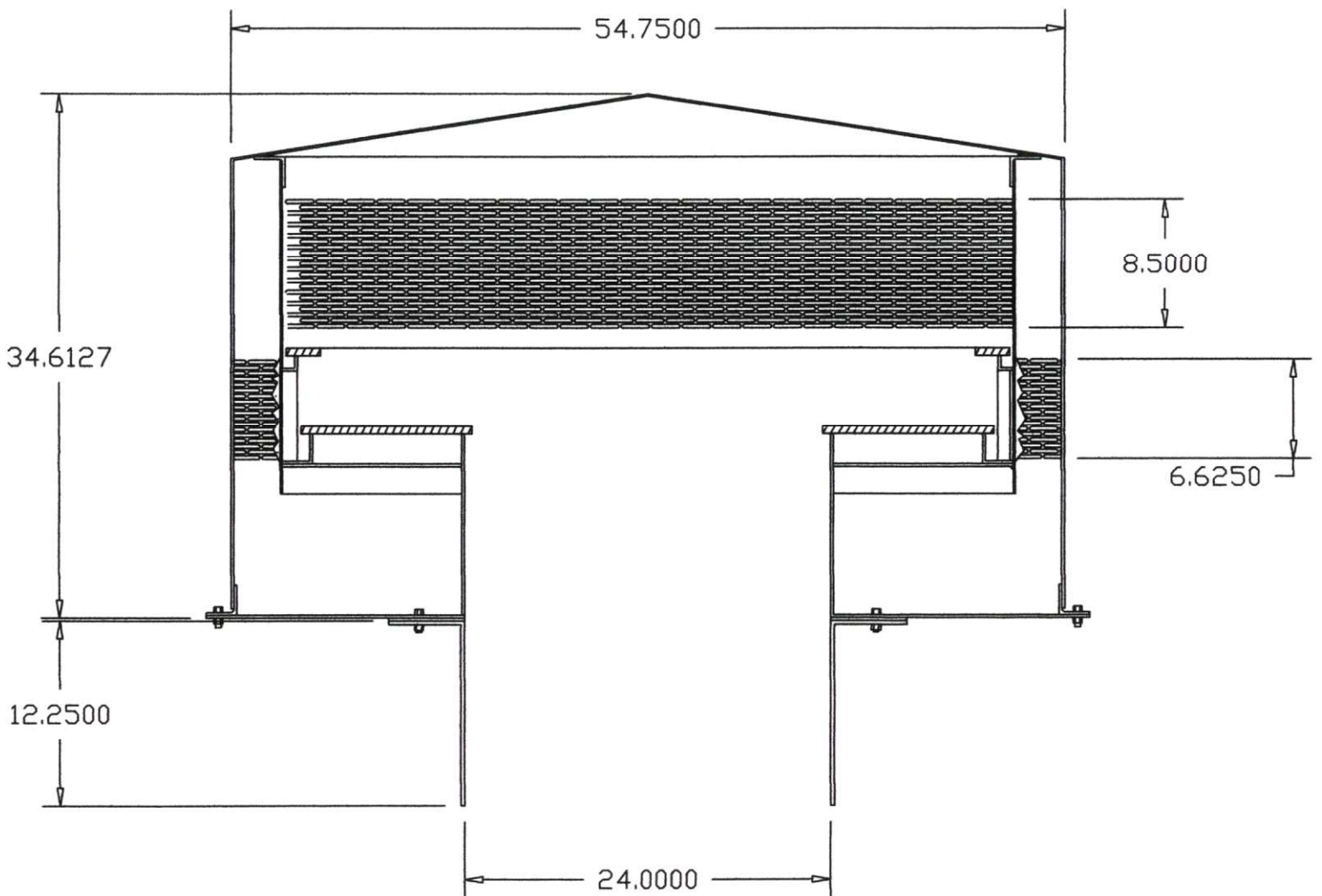


FIGURE-1A

Newlin's Welding & Tank Maintenance

24" Pressure Vacuum Vent  
(Vandal)

Weld specifications

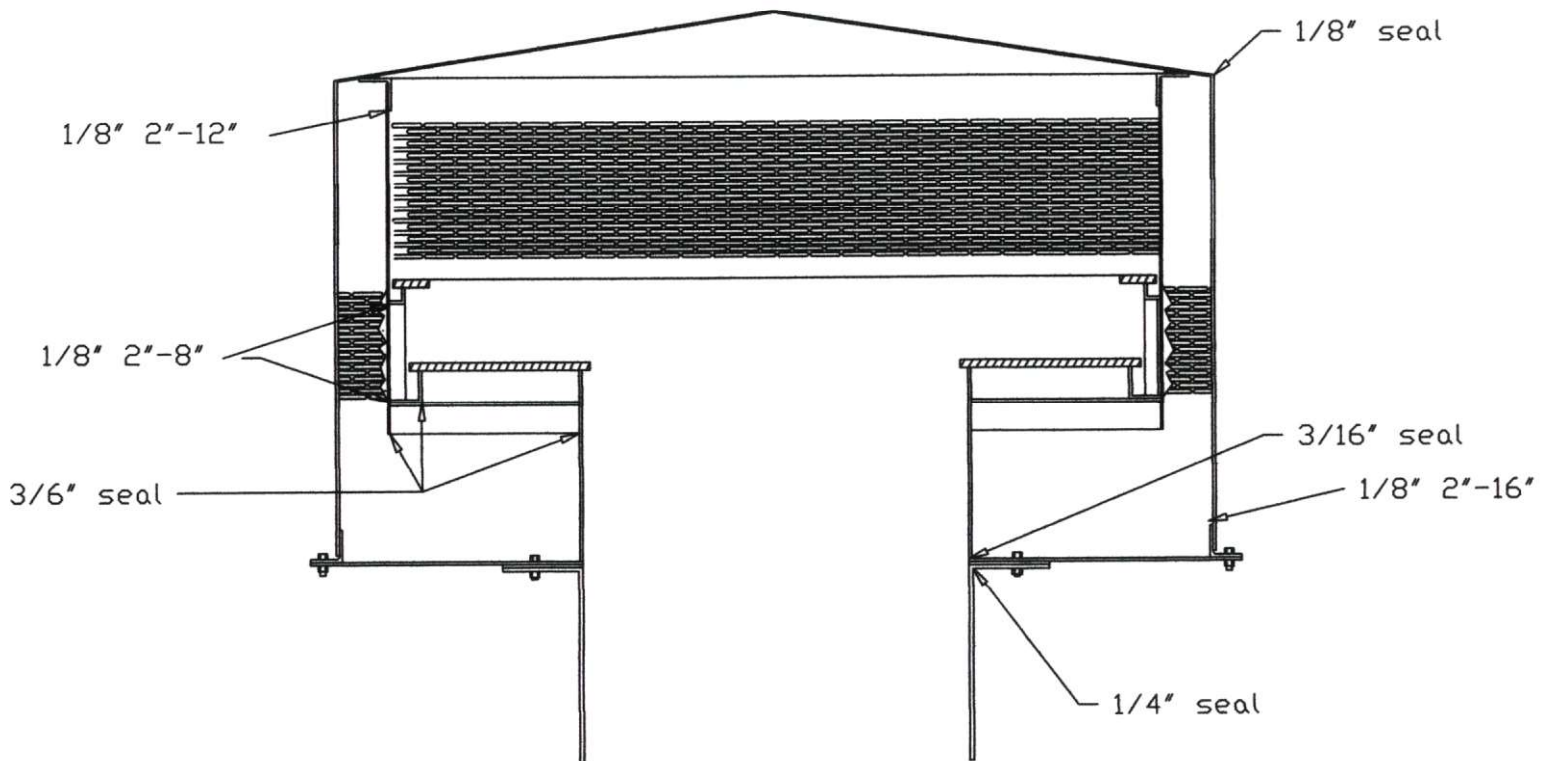


FIGURE-2A

# Newlin's Welding & Tank Maintenance

## 24" Pressure Vacuum Vent (Vandal)

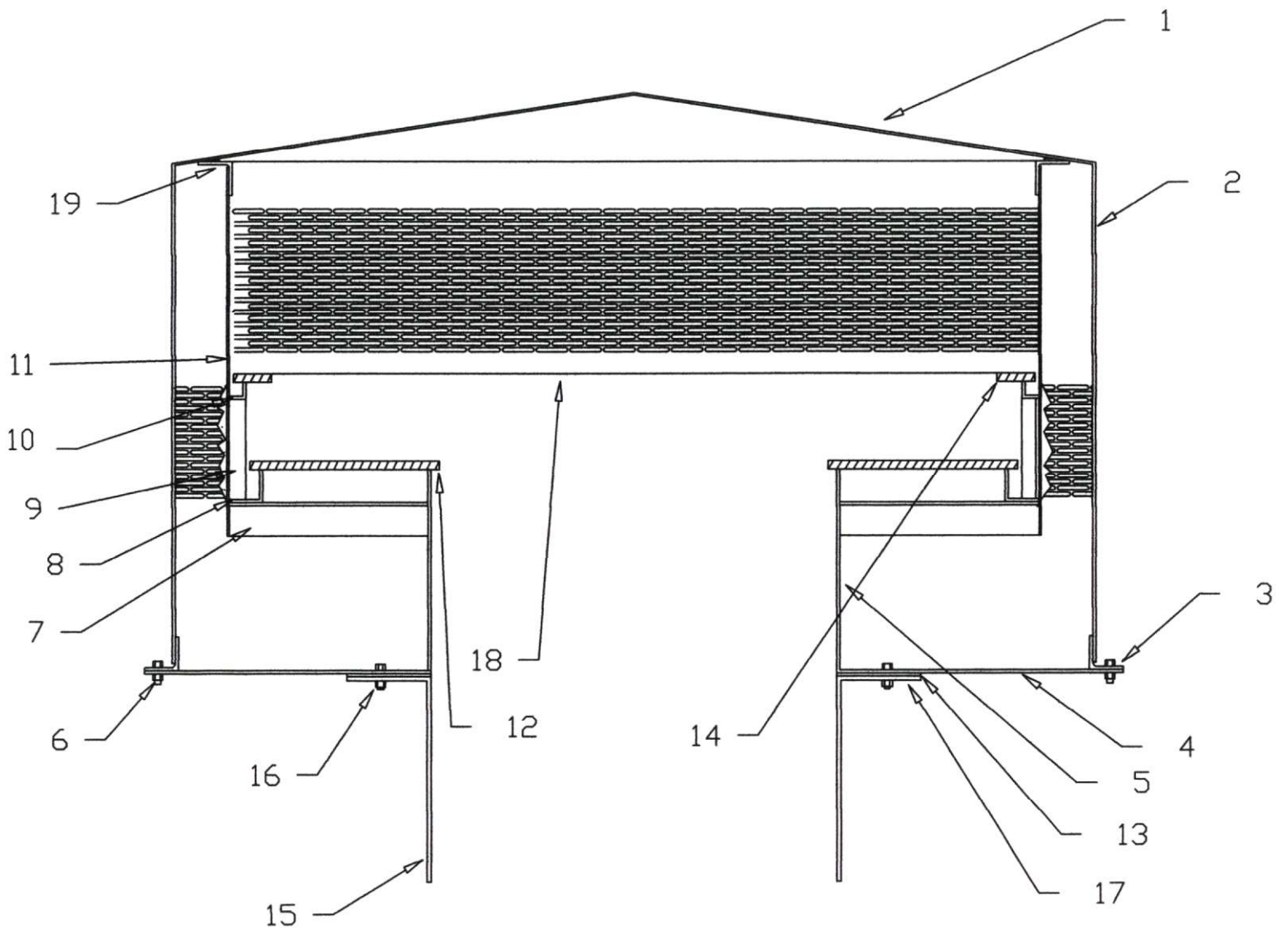


FIGURE-3A



## Material Specification for 24" Vandal Vent

1. 1/8" x 54 3/4" plate coned to 1" in 12" min.
2. 1/8" x 29 5/8" plate with integrated bird screen rolled to 54 3/8" I.D.
3. 2" x 2" x 3/16" angle rolled leg out to 58" O.D.
4. 24" I.D. x 58" O.D. x 3/16" plate  
bolt circle (8) 7/16" dia. Holes @ 15" rad.  
bolt circle (20) 7/16" dia. Holes @ 28 1/4" rad.
5. 12" x 3/16" plate rolled to 24" I.D.
6. 3/8" x 1" s.s Flange bolt and nut
7. (6) 2" x 2" x 3/16" angle 11 7/8" long
8. 2" x 2" x 3/16" angle rolled leg out to 48" O.D.
9. (6) 1" x 1" x 6" angle
10. 1" x 1" x 3/16" angle rolled leg out to 48" O.D.
11. 1/8" x 22" plate with integrated bird screen rolled to 48" I.D.
12. Linear High Density Poly-Ethylene vacuum pallet 45 1/2" O.D x 23" I.D. 1/2" tk.
13. 1/8" red rubber gasket 24" I.D. 34" O.D.
14. Linear High Density Poly-Ethylene pressure pallet 47 1/2" O.D. 43" I.D. 1/2" tk.
15. 1/4" x 12" steel plate rolled to 24" I.D.
16. 3/8" x 1" s.s. bolt and nut
17. 1/4" steel plate 24 1/2" I.D. x 34" O.D.
18. 16 x 16 x .018 316 s.s. screen 47 1/2" O.D.
19. 2"x 2" x 3/16" angle rolled leg out to 47 5/8" I.D.

All Material is 3003 or 5052 aluminum Unless noted otherwise

All dimensions to +/- 1/8" in tolerance

Newlin's Welding & Tank Maintenance

Bird screen detail

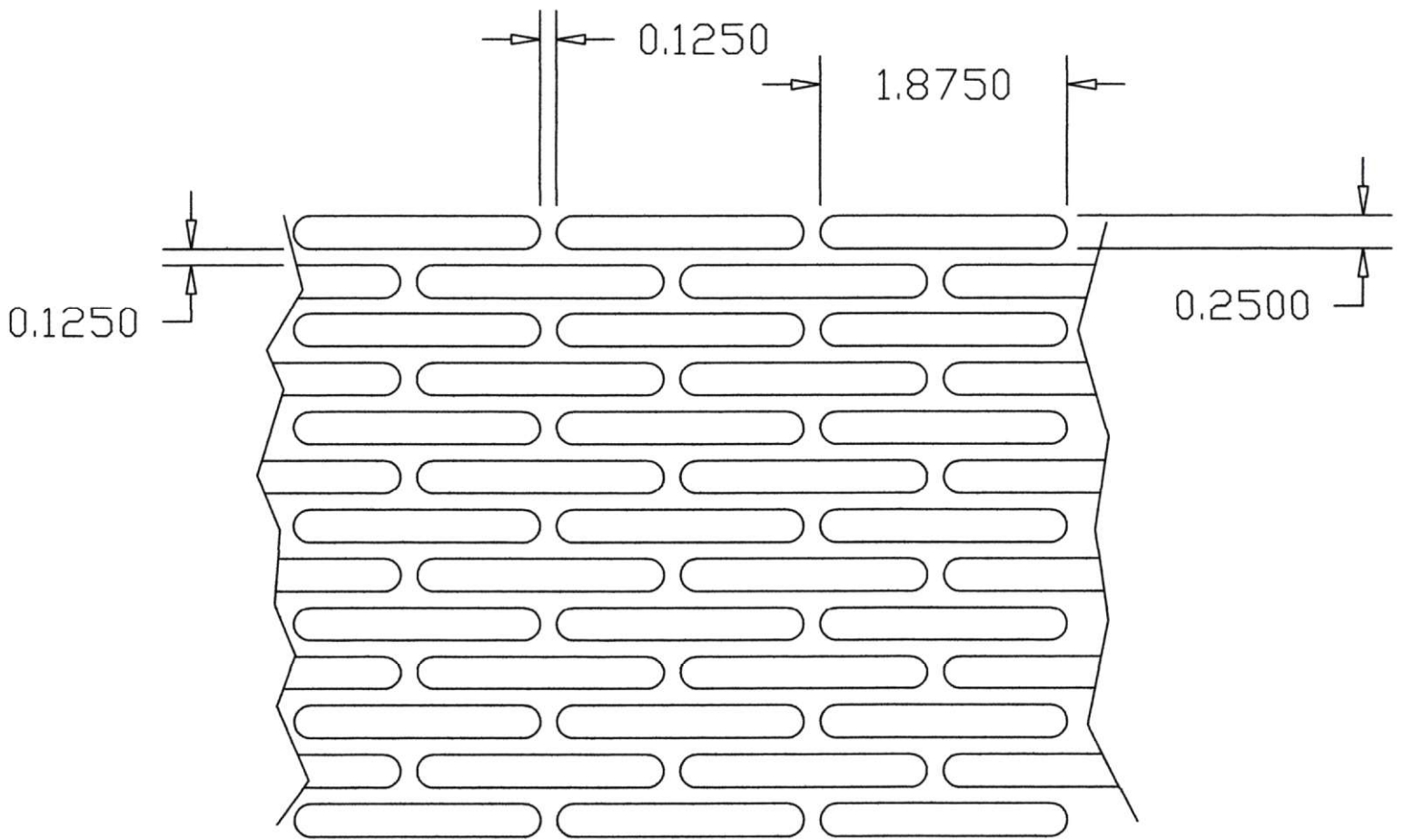
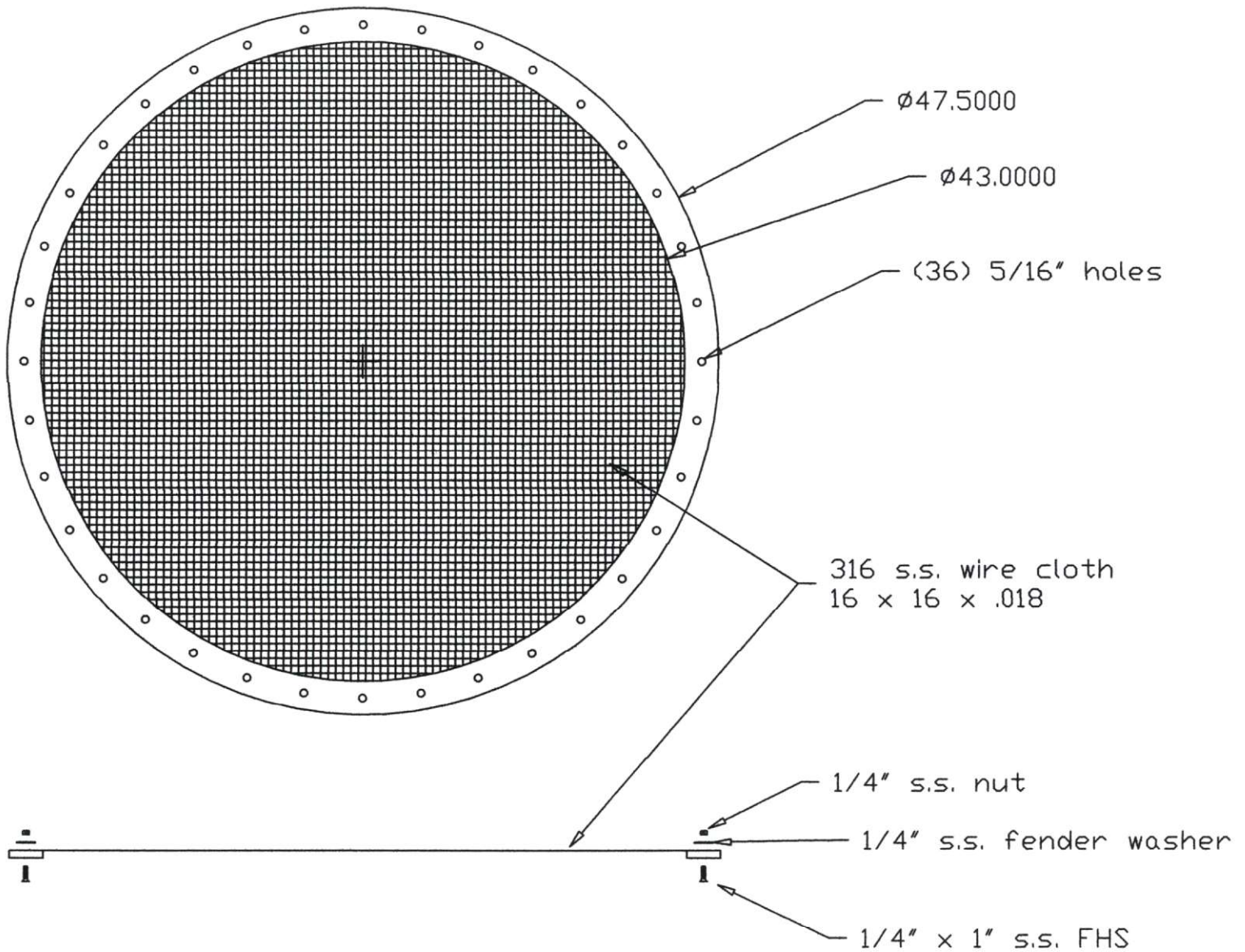


FIGURE-4A

# Newlin's Welding & Tank Maintenance

## 24" Pressure Pallet



Bolt heads are to be countersunk into pressure pallet.

FIGURE-5 A

24" Vandal Base

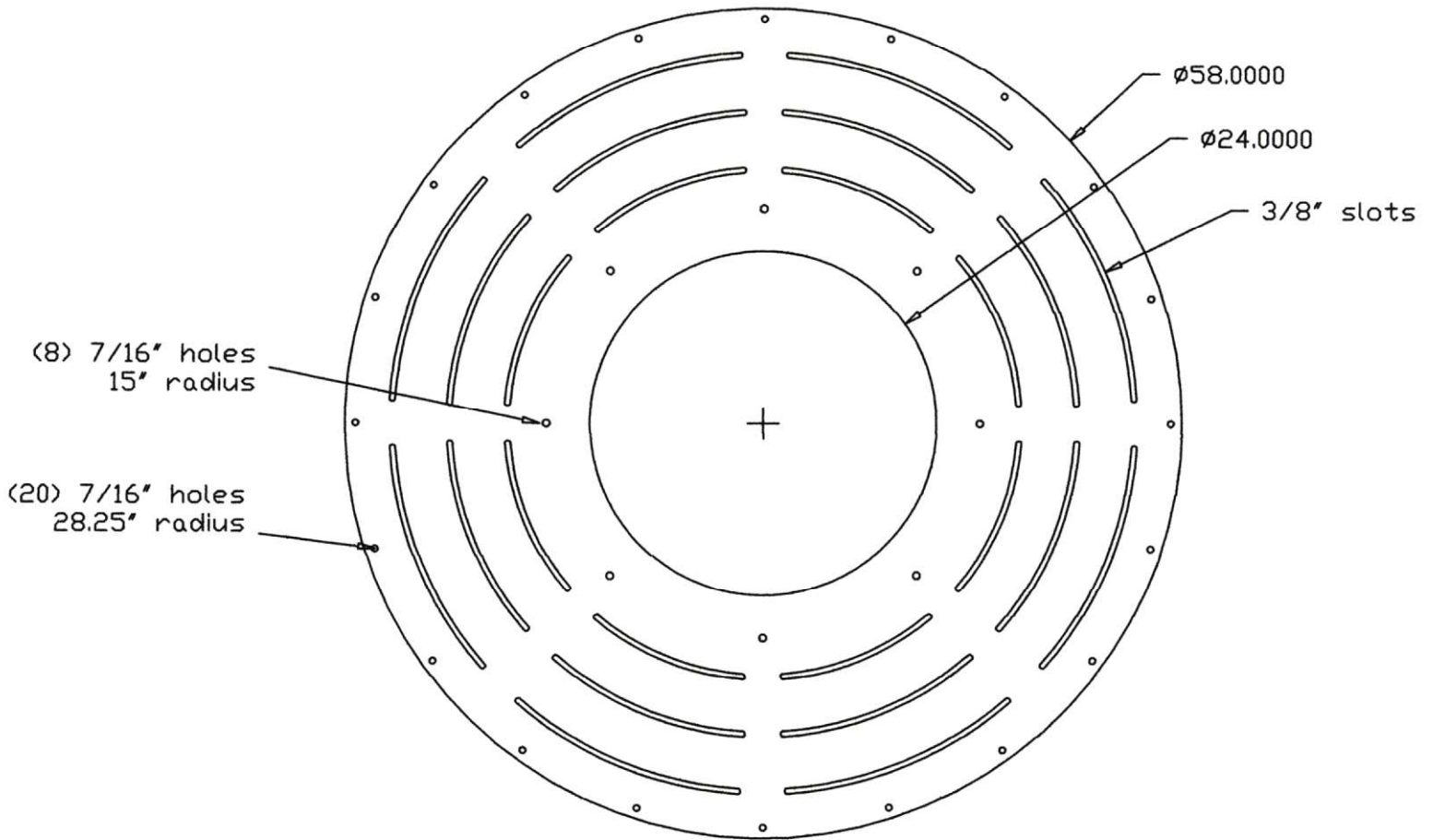


FIGURE-6A

### Installation and Operating Instructions

- 1)- Vent must be installed plumb to ensure proper functioning
- 2)- All s.s. fasteners to be antiseized to prevent gaulding
- 3)- Vacuum and pressure pallets must lay flat in their proper position after installing.
- 4)- Annually inspect and clean out the vent interior.
- 5)- More frequent inspection and cleaning may be required if unusually severe dust conditions exist.
- 6)- The pallets and interior surfaces of the vent should not be painted. If the exterior surfaces are to be painted, these surfaces should be hand-roughed with sand paper and solvent washed prior to coating.  
**Do Not Sand Blast**
- 7)- The vacuum and pressure relief pallets should be removed during cleaning and painting of the tank to prevent them from clogging.
- 8)- When pallets are removed from the vent for an extended period of time they should be laid on a flat surface to prevent warping.
- 8)- Newlin's Welding and Tank Maintenance Installs a name tag with model and serial numbers on all of their vent's.





# Newlin's Welding & Tank Maintenance

## 18" Pressure Vacuum Vent

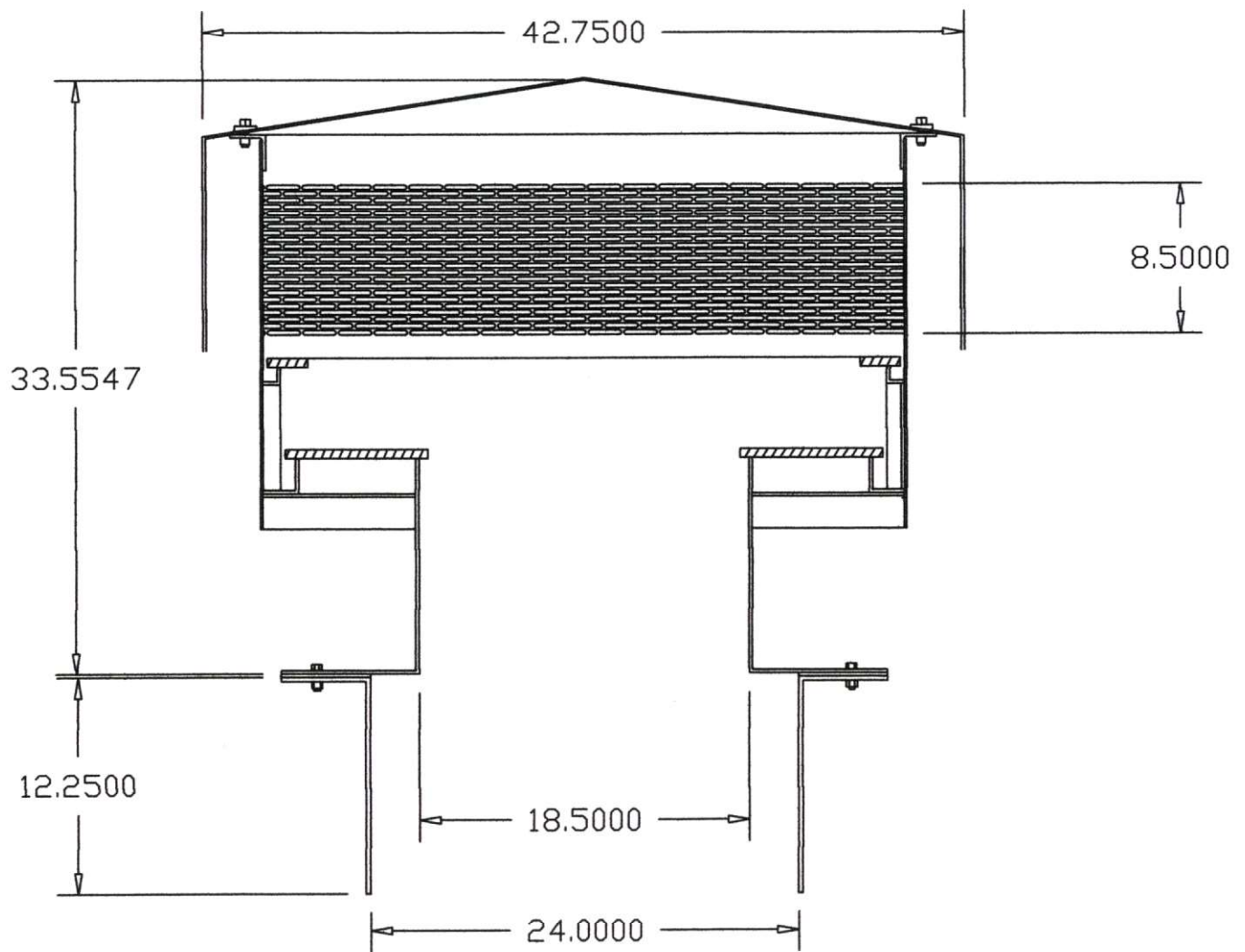


FIGURE-1B



Newlin's Welding & Tank Maintenance

18" Pressure Vacuum Vent

Weld Specifications

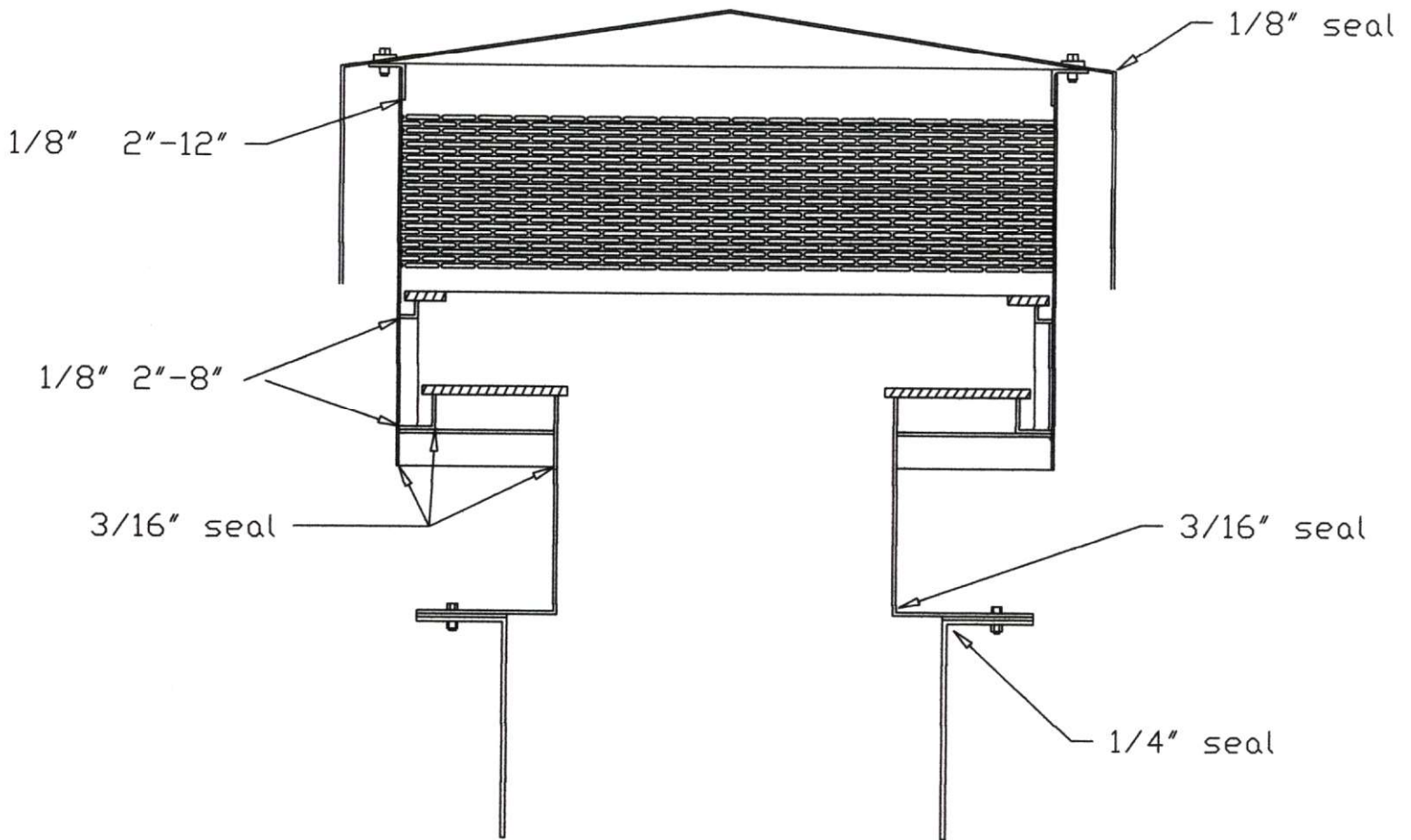


FIGURE-2B

# Newlin's Welding & Tank Maintenance

## 18" Pressure Vacuum Vent

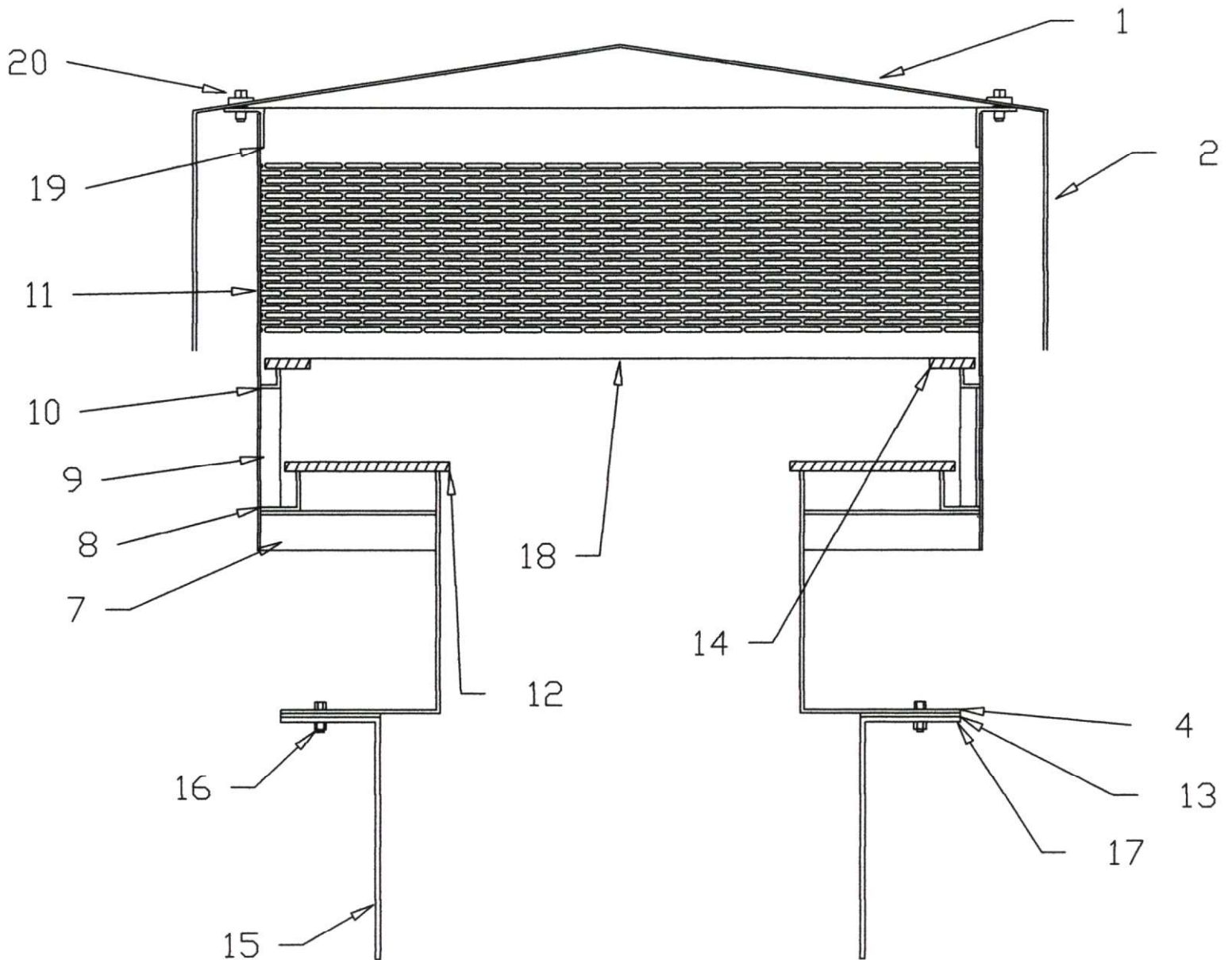


FIGURE-3B

### Material Specification for 18" vent

1. 1/8" x 42 3/4" plate coned to 1" in 12" min.
2. 1/8" x 12" plate rolled to 42 1/2" I.D.
4. 18 1/2" I.D. x 34" O.D. x 3/16" plate  
bolt circle (8) 7/16" dia. Holes @ 15" rad.
5. 12" x 3/16" plate rolled to 18 1/2" I.D.
6. 3/8" x 1" s.s Flange bolt and nut
7. (5) 2" x 2" x 3/16" angle 8 9/16" long
8. 2" x 2" x 3/16" angle rolled leg out to 36" O.D.
9. (5) 1" x 1" x 3/16" angle 6" long
10. 1" x 1" x 3/16" angle rolled leg out to 36" O.D.
11. 1/8" x 22" plate with integrated bird screen rolled to 36" I.D.
12. Linear High Density Poly-Ethylene vacuum pallet 33 1/2" O.D. x 17" I.D.
13. 1/8" red rubber gasket 24" I.D. 34" O.D.
14. Linear High Density Poly-Ethylene pressure pallet 35 1/2" O.D. 31" I.D.
15. 1/4" x 12" steel plate rolled to 24" I.D.
16. 3/8" x 1" s.s. bolt and nut
17. 1/4" steel plate 24 1/2" I.D. x 34" O.D.
18. 16 x 16 x .018 316 s.s. screen 35 1/2" O.D.
19. 2" x 2" x 3/16" angle rolled leg out to 35 5/8" I.D.
20. 3/8" x 1 1/4" s.s. bolt and 3/8" wedge washer

All Material is 3003 or 5052 aluminum Unless noted otherwise

All dimensions +/- 1/8" in tolerance

# Newlin's Welding & Tank Maintenance

## Bird screen detail

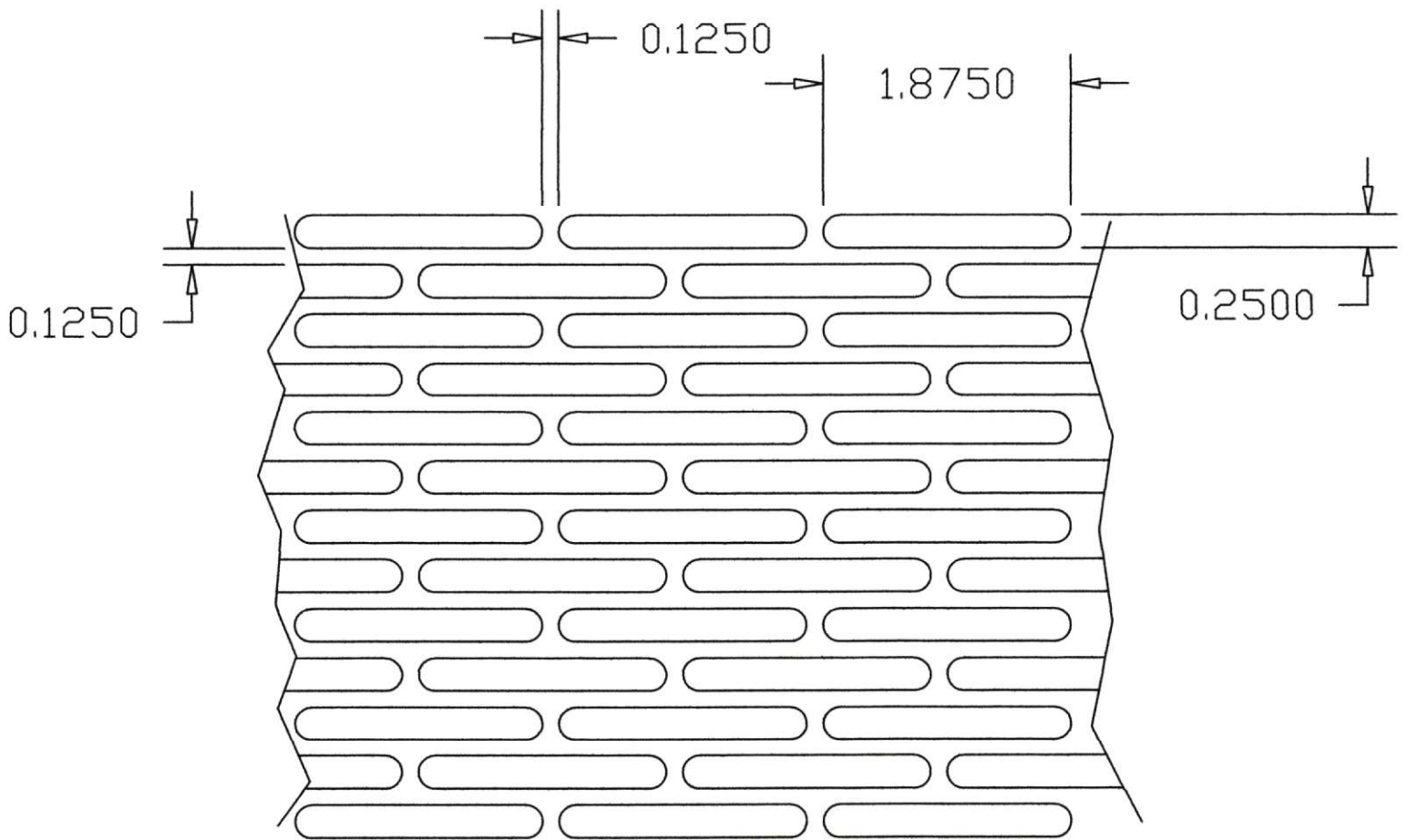
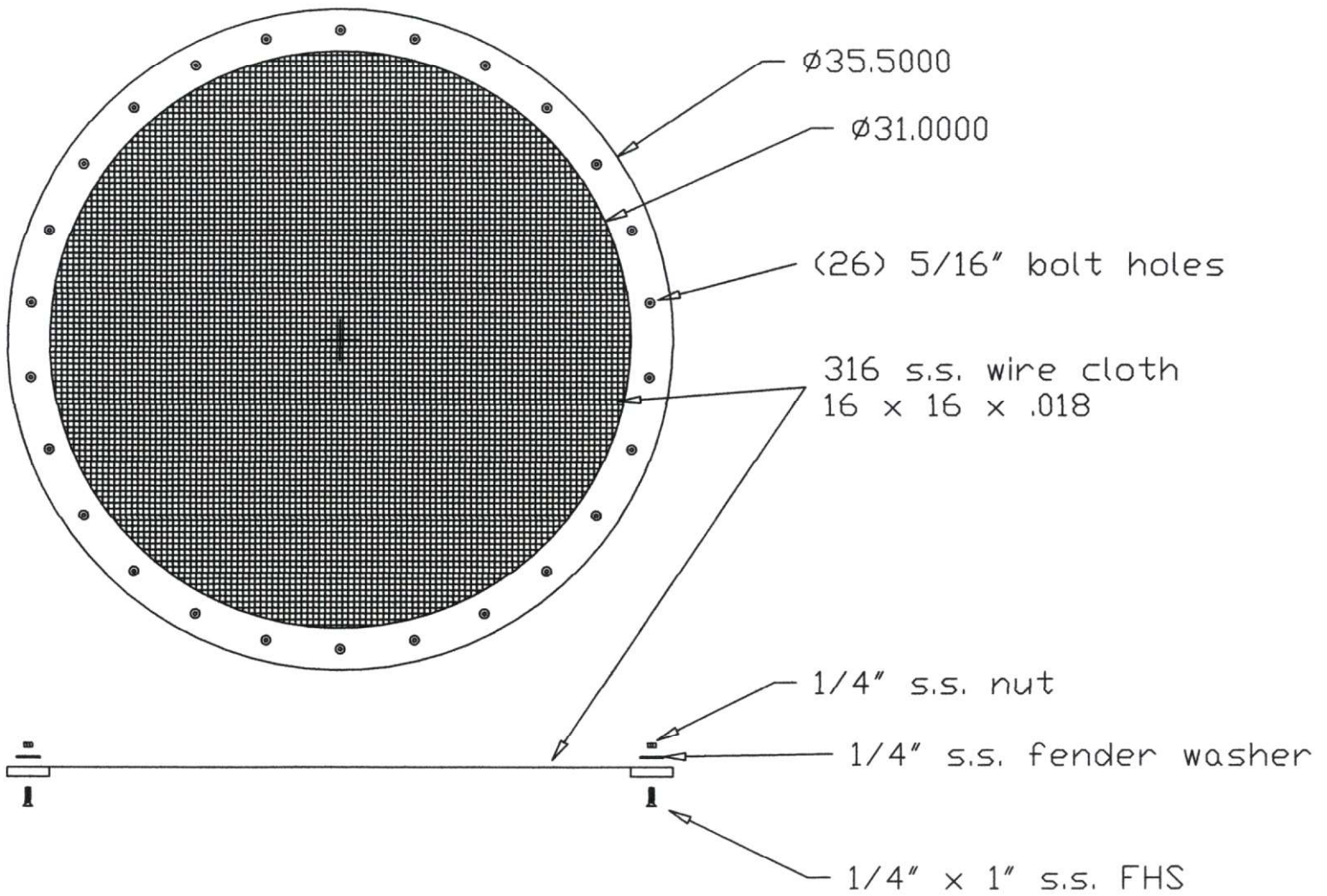


FIGURE-4B

# Newlin's Welding & Tank Maintenance

## 18" pressure pallet



Bolt heads are to be countersunk into pressure pallet

FIGURE-5B

# Newlin's Welding & Tank Maintenance

## Lid connection (4 required)

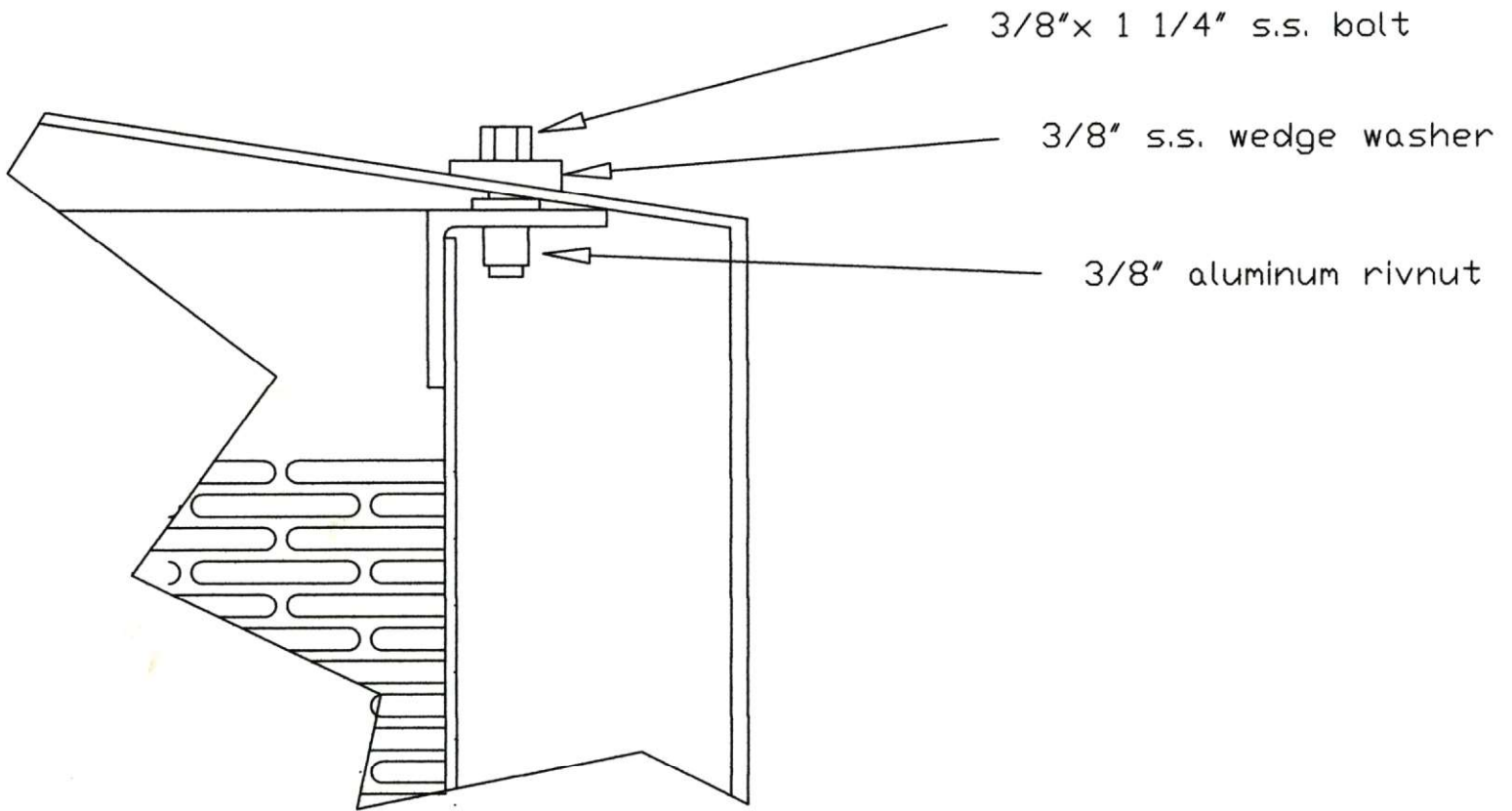


FIGURE-6B

## Installation and Operating Instructions

- 1)- Vent must be installed plumb to ensure proper functioning
- 2)- All s.s. fasteners to be antiseized to prevent gaulding
- 3)- Vacuum and pressure pallets must lay flat in their proper position after installing.
- 4)- Annually inspect and clean out the vent interior.
- 5)- More frequent inspection and cleaning may be required if unusually severe dust conditions exist.
- 6)- The pallets and interior surfaces of the vent should not be painted. If the exterior surfaces are to be painted, these surfaces should be hand-roughed with sand paper and solvent washed prior to coating.  
**Do Not Sand Blast**
- 7)- The vacuum and pressure relief pallets should be removed during cleaning and painting of the tank to prevent them from clogging.
- 8)- When pallets are removed from the vent for an extended period of time they should be laid on a flat surface to prevent warping.
- 8)- Newlin's Welding and Tank Maintenance Installs a name tag with model and serial numbers on all of their vent's.







# Newlin's Welding & Tank Maintenance

## 18" Pressure Vacuum Vent (Vandal)

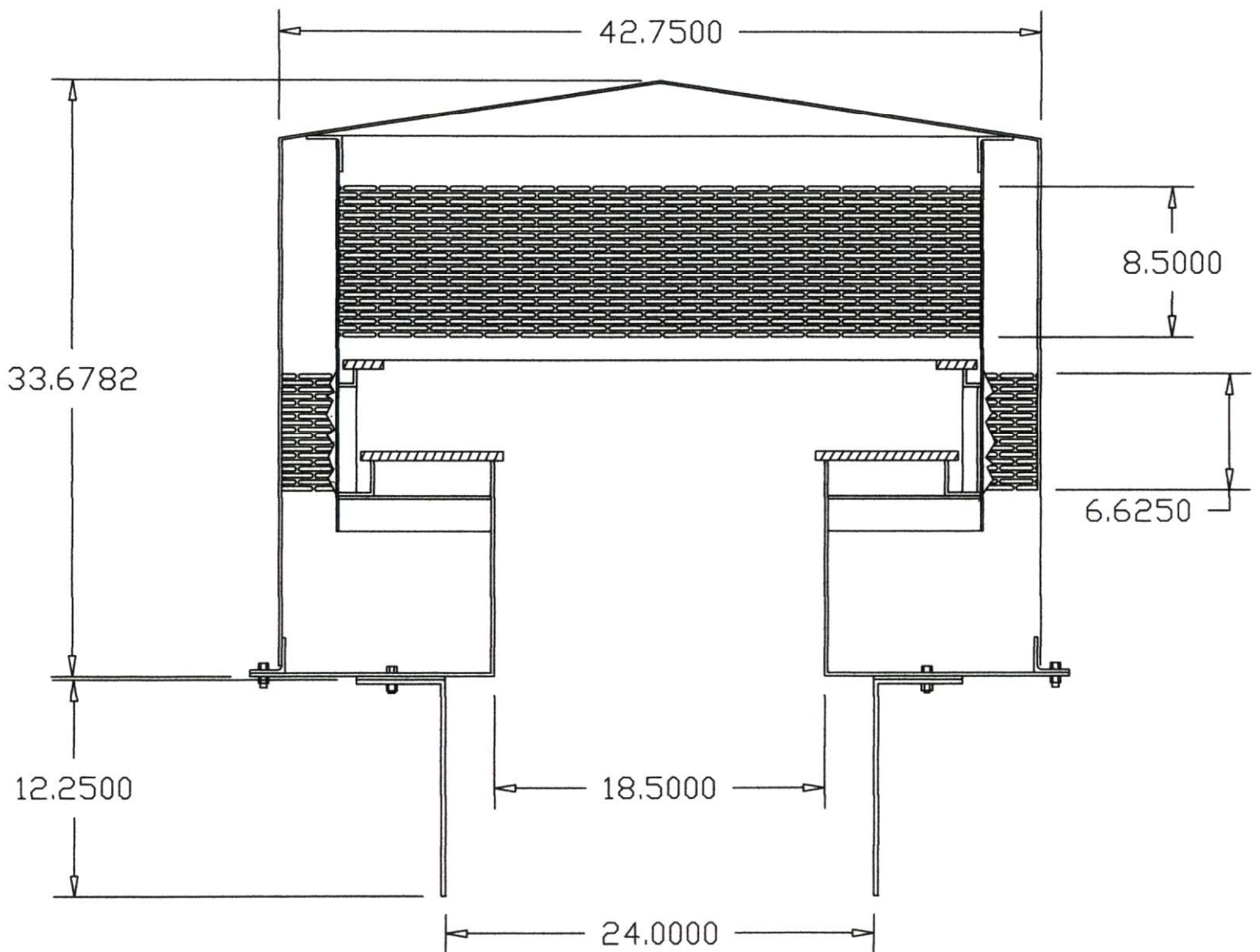


FIGURE-1C

# 18" Pressure Vacuum Vent (Vandal)

## Weld Specifications

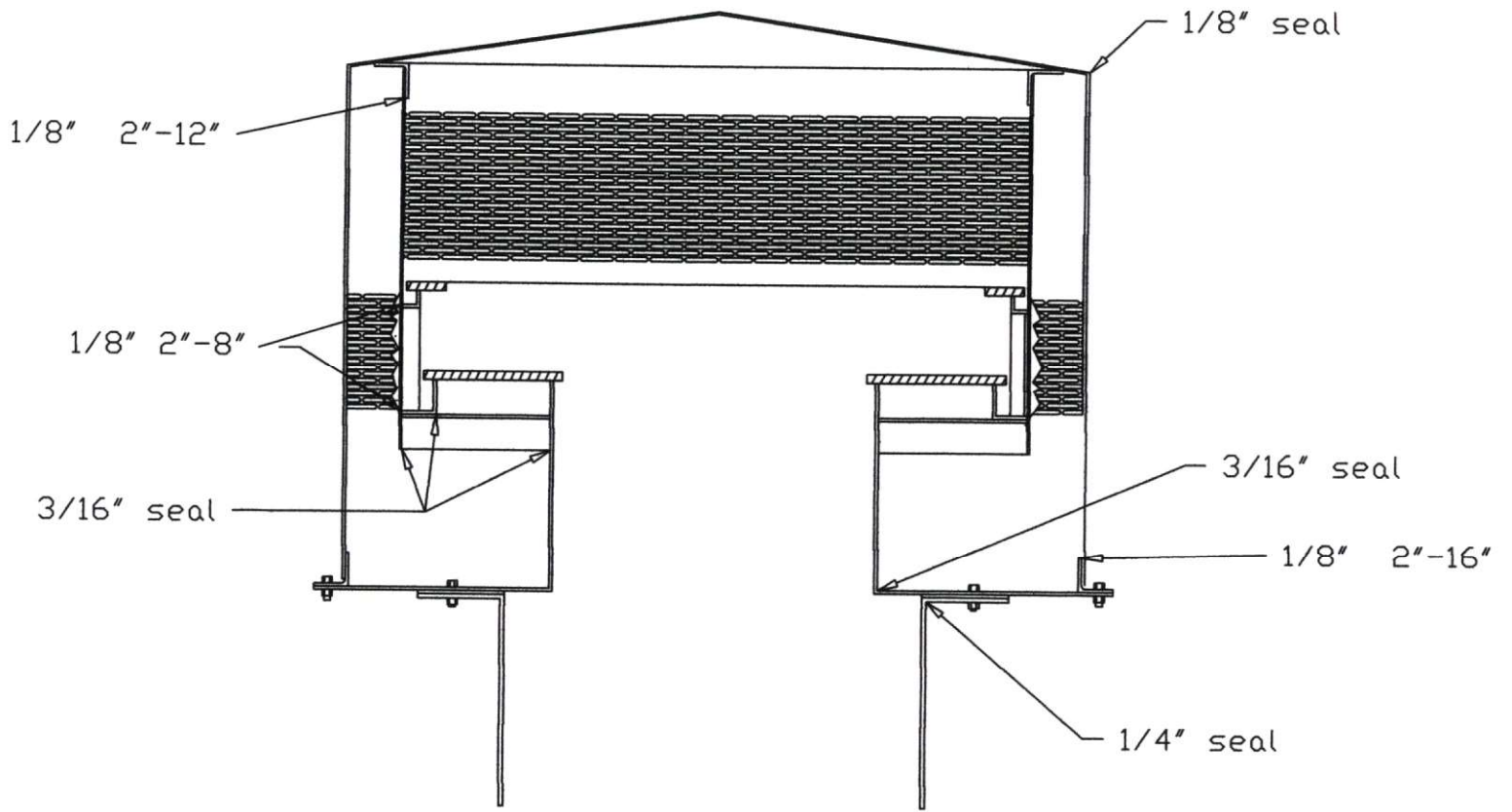


FIGURE-2C

# Newlin's Welding & Tank Maintenance

## 18" Pressure Vacuum Vent

(Vandal)

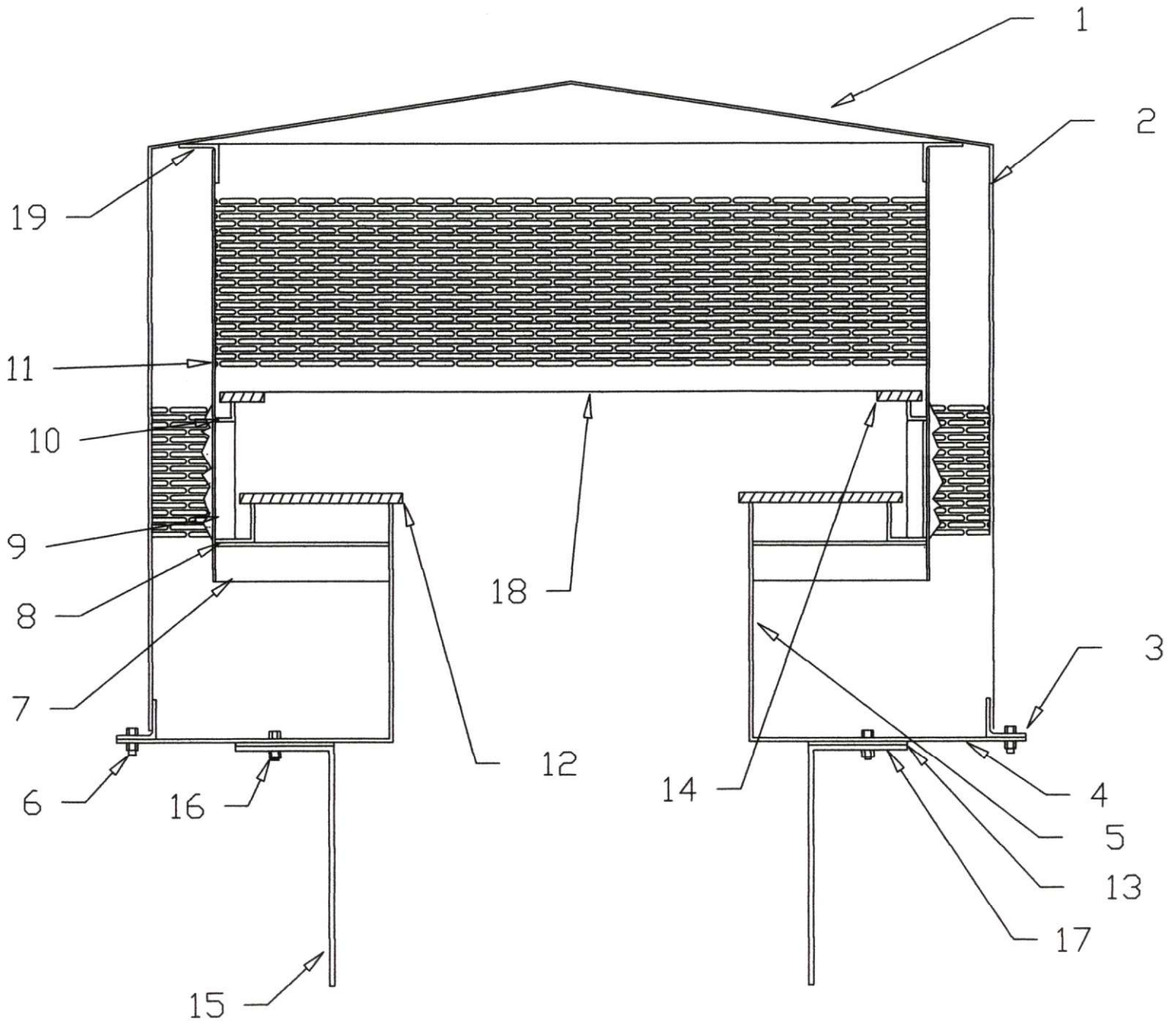


FIGURE-3C

### Material Specification for 18" Vandal Vent

1. 1/8" x 42 3/4" plate coned to 1" in 12" min.
2. 1/8" x 29 5/8" plate with integrated bird screen rolled to 42 1/2" I.D.
3. 2" x 2" x 3/16" angle rolled leg out to 46" O.D.
4. 18 1/2" I.D. x 46" O.D. x 3/16" plate  
bolt circle (8) 7/16" dia. Holes @ 15" rad.  
bolt circle (17) 7/16" dia. Holes @ 22 1/4" rad.
5. 12" x 3/16" plate rolled to 18 1/2" I.D.
6. 3/8" x 1" s.s Flange bolt and nut
7. (5) 2" x 2" x 3/16" angle 8 9/16" long
8. 2" x 2" x 3/16" angle rolled leg out to 36" O.D.
9. (5) 1" x 1" x 3/16" angle 6" long
10. 1" x 1" x 3/16" angle rolled leg out to 36" O.D.
11. 1/8" x 22" plate with integrated bird screen rolled to 36" I.D.
12. Linear High Density Poly-Ethylene vacuum pallet 33 1/2" O.D. x 17" I.D.
13. 1/8" red rubber gasket 24" I.D. 34" O.D.
14. Linear High Density Poly-Ethylene pressure pallet 35 1/2" O.D. 31" I.D.
15. 1/4" x 12" steel plate rolled to 24" I.D.
16. 3/8" x 1" s.s. bolt and nut
17. 1/4" steel plate 24 1/2" I.D. x 34" O.D.
18. 16 x 16 x .018 316 s.s. screen 35 1/2" O.D.
19. 2" x 2" x 3/16" angle rolled leg out to 35 5/8" I.D.

All Material is 3003 or 5052 aluminum Unless noted otherwise

All dimensions to +/- 1/8" in tolerance

# Newlin's Welding & Tank Maintenance

## Bird screen detail

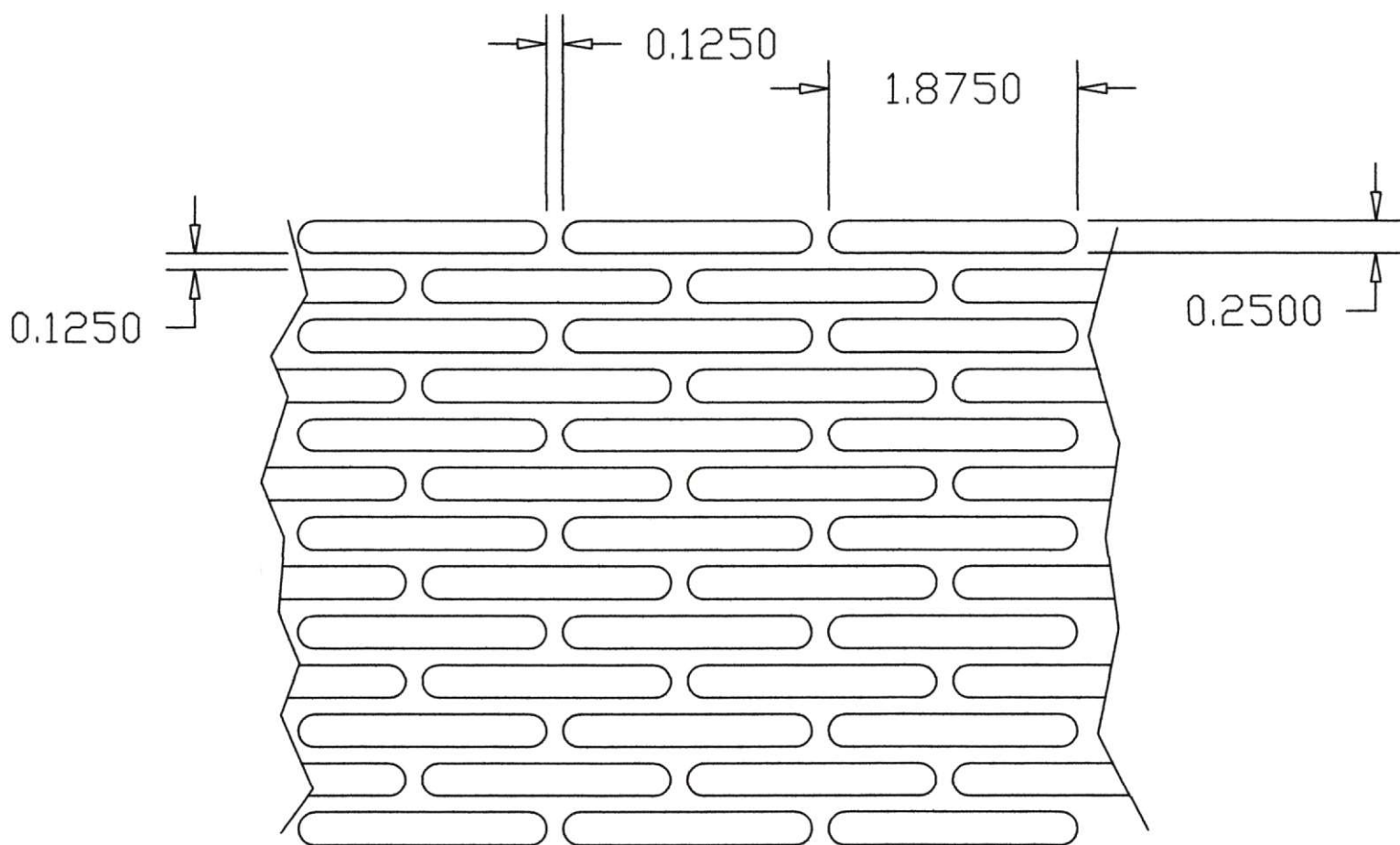
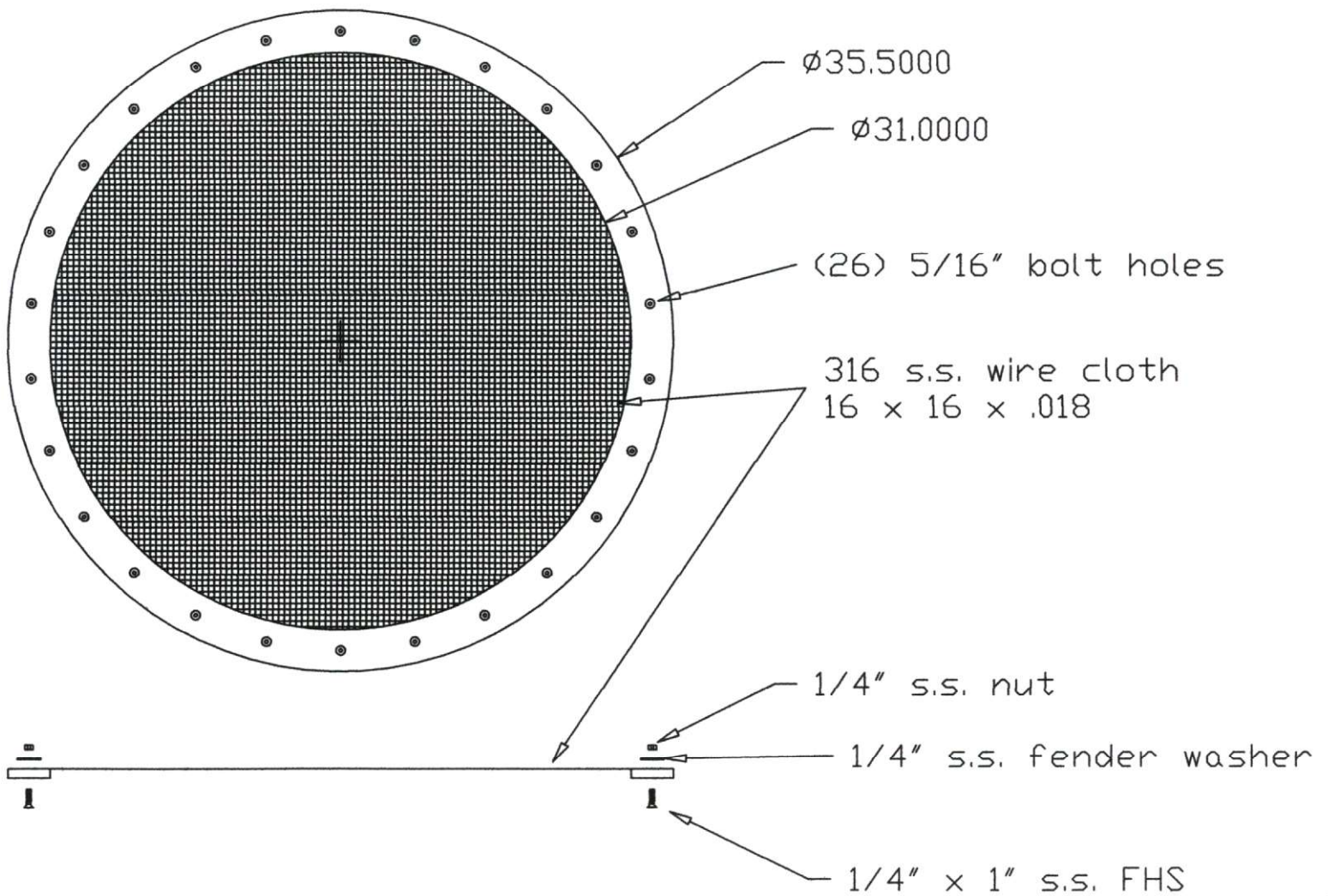


FIGURE-4C

# Newlin's Welding & Tank Maintenance

## 18" pressure pallet



Bolt heads are to be countersunk into pressure pallet

FIGURE-5C

Newlin's Welding & Tank Maintenance

18" Vandal Base

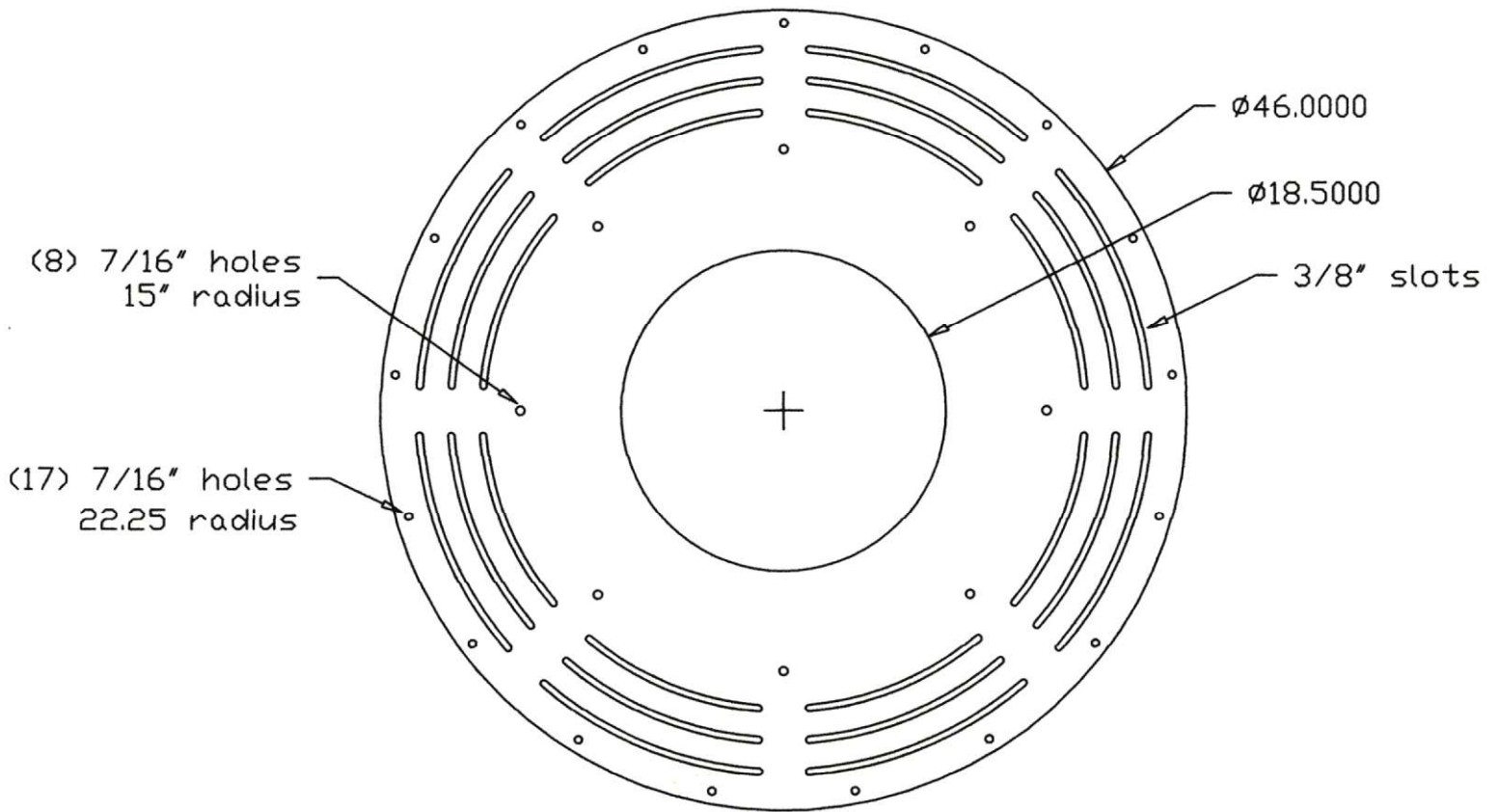


FIGURE-6C



## Installation and Operating Instructions

- 1)- Vent must be installed plumb to ensure proper functioning
- 2)- All s.s. fasteners to be antiseized to prevent gaulding
- 3)- Vacuum and pressure pallets must lay flat in their proper position after installing.
- 4)- Annually inspect and clean out the vent interior.
- 5)- More frequent inspection and cleaning may be required if unusually severe dust conditions exist.
- 6)- The pallets and interior surfaces of the vent should not be painted. If the exterior surfaces are to be painted, these surfaces should be hand-roughed with sand paper and solvent washed prior to coating.  
**Do Not Sand Blast**
- 7)- The vacuum and pressure relief pallets should be removed during cleaning and painting of the tank to prevent them from clogging.
- 8)- When pallets are removed from the vent for an extended period of time they should be laid on a flat surface to prevent warping.
- 8)- Newlin's Welding and Tank Maintenance Installs a name tag with model and serial numbers on all of their vent's.