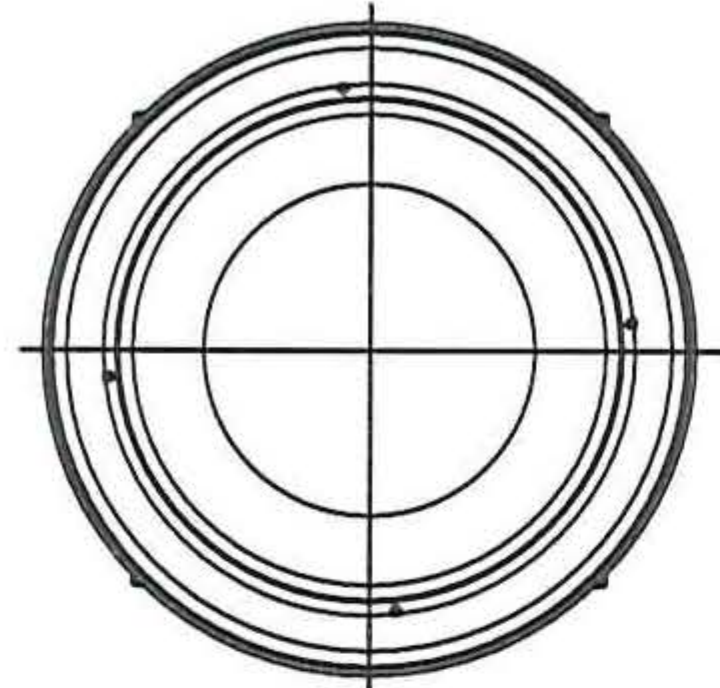
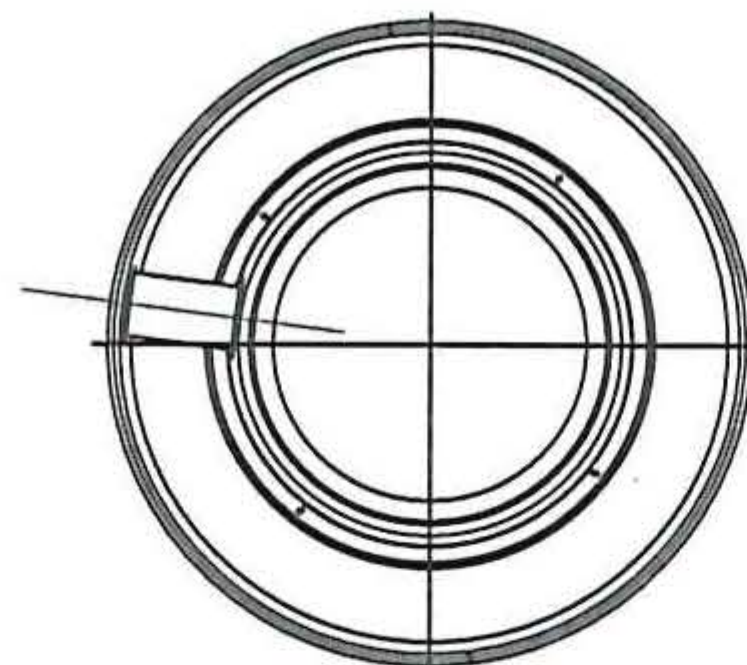
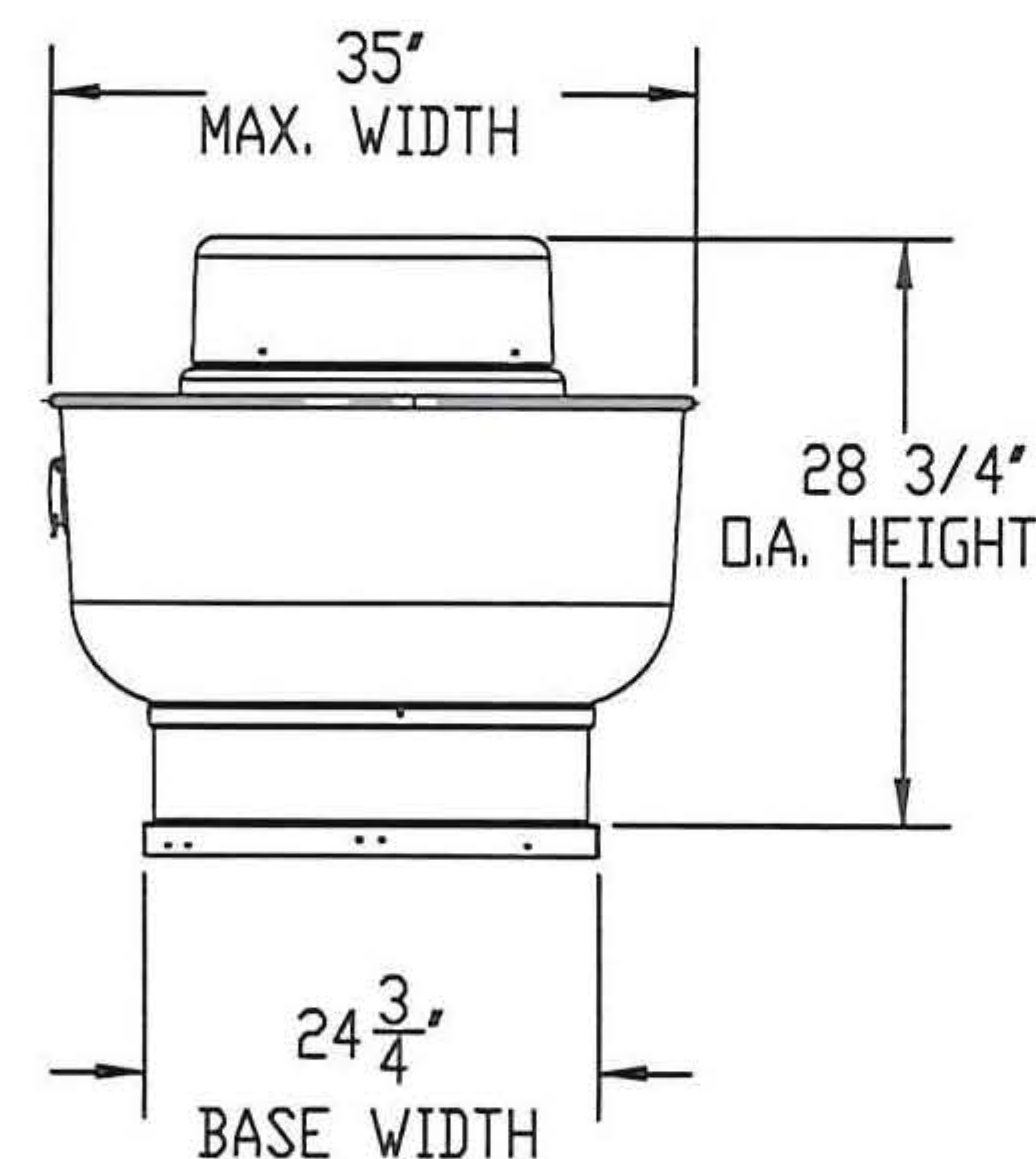
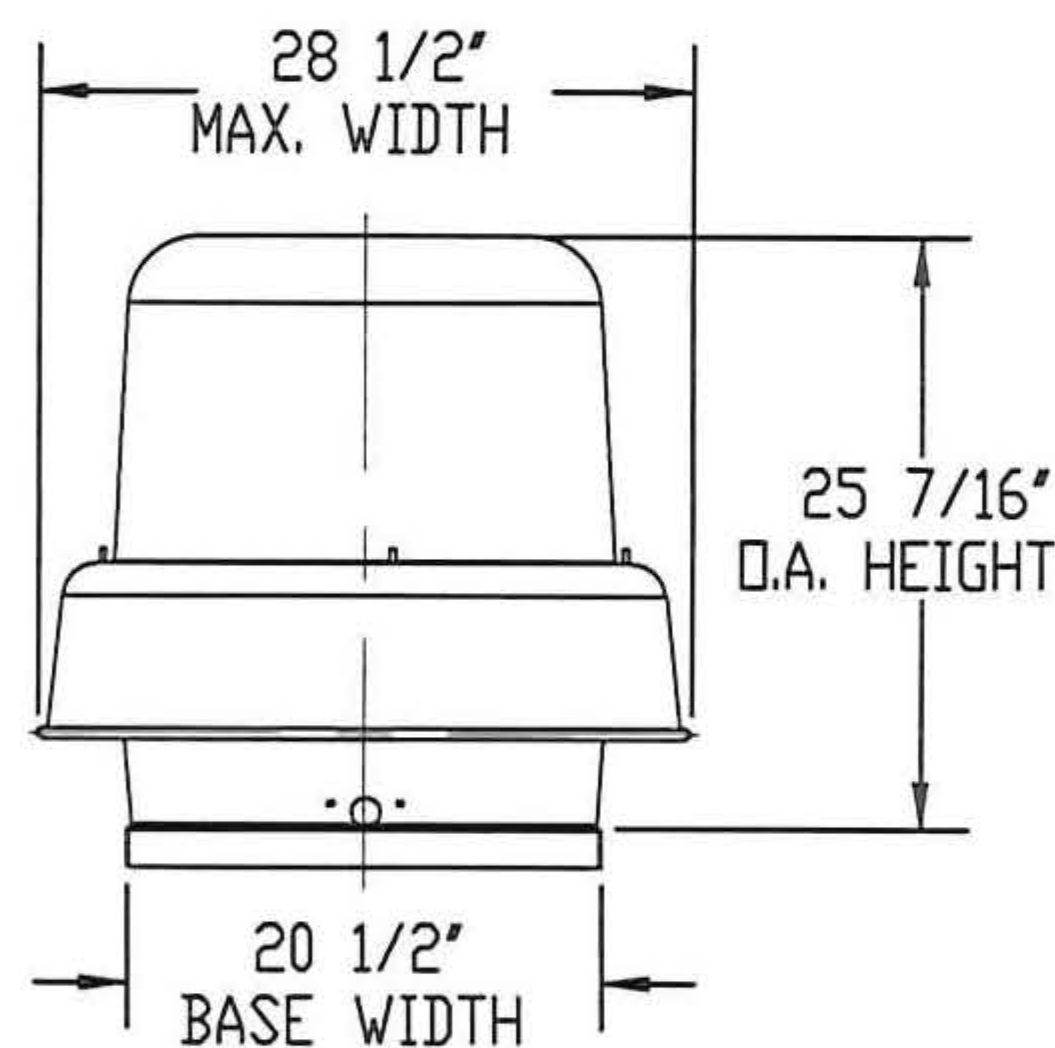




DX11B DOMEX DOWNBLAST ROOF VENT  
TOP VIEW



FX08B FUMEX UPBLAST ROOF VENT  
TOP VIEW



| DESIGN PRESSURE RATING | IMPACT RATING                          |
|------------------------|----------------------------------------|
| ±70.0PSF               | LARGE AND SMALL MISSILE IMPACT         |
| TABLE OF CONTENTS      |                                        |
| SHEET NO.              | DESCRIPTION                            |
| 1                      | GENERAL NOTES, ELEVATION & TOP VIEWS   |
| 2                      | ELEVATION, TOP VIEWS, DIMENSIONS TABLE |
| 3                      | BILL OF MATERIALS & SECTIONS           |
| 4                      | INSTALLATION DETAILS                   |
| 5 - 6                  | COMPONENTS                             |



| REVISIONS |                    |            |          |
|-----------|--------------------|------------|----------|
| REV.      | DESCRIPTION        | DATE       | APPROVED |
| B         | CONCRETE ANCHORAGE | 10/20/2021 | GH       |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED & MANUFACTURED TO COMPLY WITH REQUIREMENTS OF FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING, METAL FRAMING AND MASONRY OPENING TO BE DESIGNED & ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING & MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF UNIT OPENING & ALL WOOD FRAMING AROUND UNIT.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND-BORNE DEBRIS REGIONS.
5. SHIM IS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS MAX. ALLOWABLE SHIM STACK TO BE 1/4".
6. FOR INSTALLATION INTO WOOD FRAMING OR 2x BUCK USE, #12 WOOD SCREW WITH SUFFICIENT LENGHT TO ACHIEVE A 1 1/2" MIN. EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN THE ELEVATIONS & INSTALLATION DETAILS.
7. FOR INSTALLATION INTO CONCRETE SLAB, USE A 1/4" ITW TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MIN. EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN THE ELEVATIONS AND INSTALLATIONS DETAILS.
8. FOR ANCHORING INTO STEEL FRAMING USE #12 TEK SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MIN. EMBEDMENT OF THREE THREADS PAST THE FRAME THICKNESS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATIONS DETAILS.
9. ALL INSTALLATIONS FASTENERS TO BE CORROSION RESISTANT.
10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS & ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MIN. STRENGTH SPECIFIED BELOW -
  1. WOOD - MIN. SPECIFIC GRAVITY OF G=0.55
  2. CONCRETE - MIN. COMPRESSIVE STRENGTH OF 2000 PSI
  3. MASONRY - STRENGTH CONFIRMANCE TO ASTM C-90, GRADE N, TYPE 1 OR GREATER
  4. METAL FRAMING - 0.125" MIN. THICKNESS
11. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS
12. VENT HOUSING MATERIAL : 1100-O ALUMINIUM
13. VENT BASE MATERIAL : MIN. 0.042" THK G-90 GALVANIZED STEEL OR MIN. 0.102" THK ALUMINIUM 3003-H14
14. GREASE BOX & EXTERNAL WEATHERPROOF JUNCTION BOX MAY BE ATTACHED TO THIS PRODUCT. GREASE BOX & EXTERNAL WEATHERPROOF JUNCTION BOX ARE NOT THE PART OF THIS APPROVAL
15. THIS APPROVAL IS FOR STRUCTURAL CAPACITY AND IMPACT TESTING OF THE EXTERIOR HOUSING ONLY, IT DOES NOT INCLUDE ANY INTERIOR MECHANISM AND/OR ELECTRICAL DEVICE OR CIRCUIT
16. THESE FANS HAVE NOT BEEN TESTED FOR WATER PENETRATION

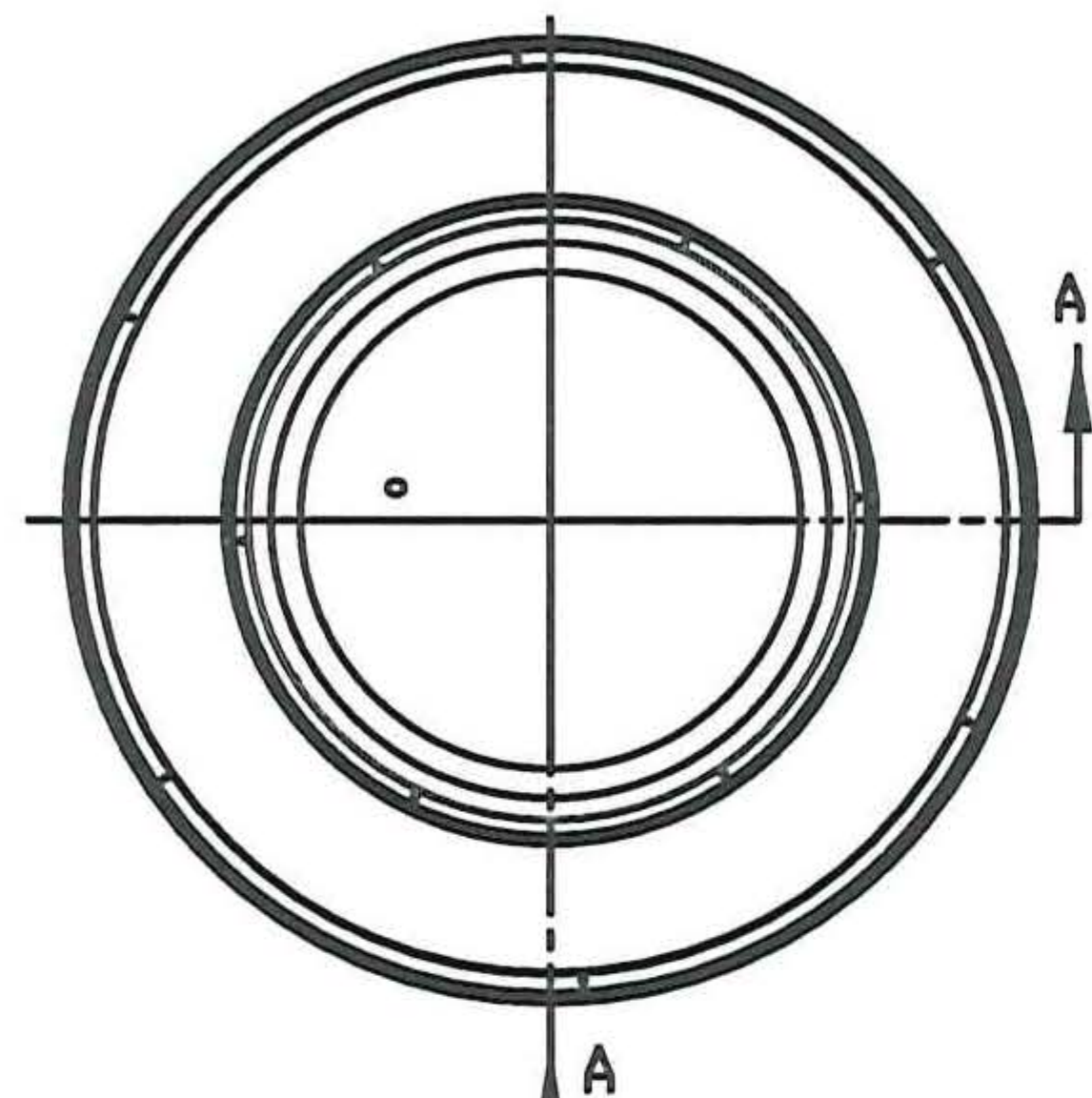
PennBarry 605 Shiloh RD Plano, TX 75074

Dx DOMEX DOWNBLAST ROOF VENT  
Fx FUMEX UPBLAST ROOF VENT  
ELEVATION, TOP VIEW & GENRAL NOTES

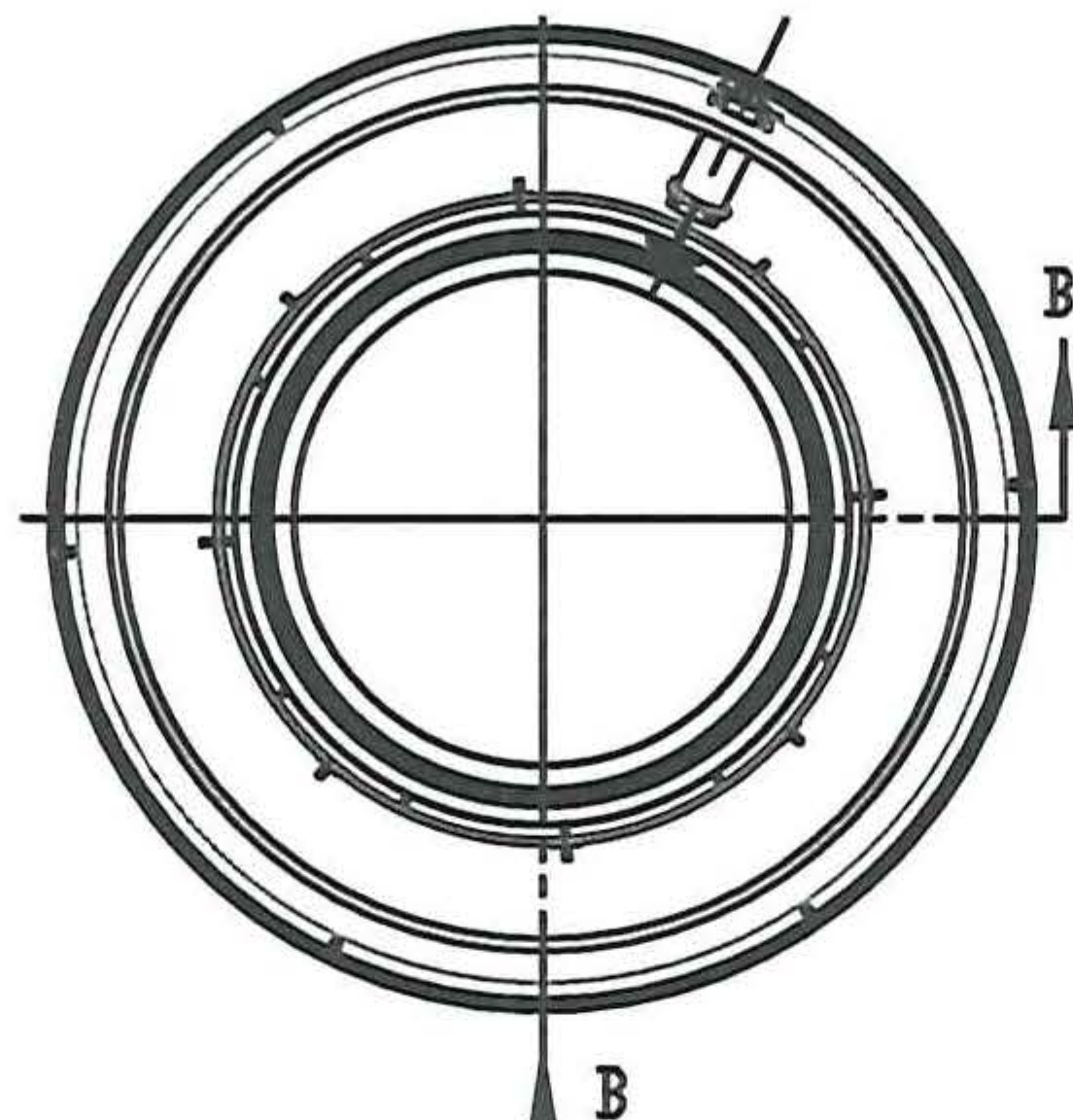
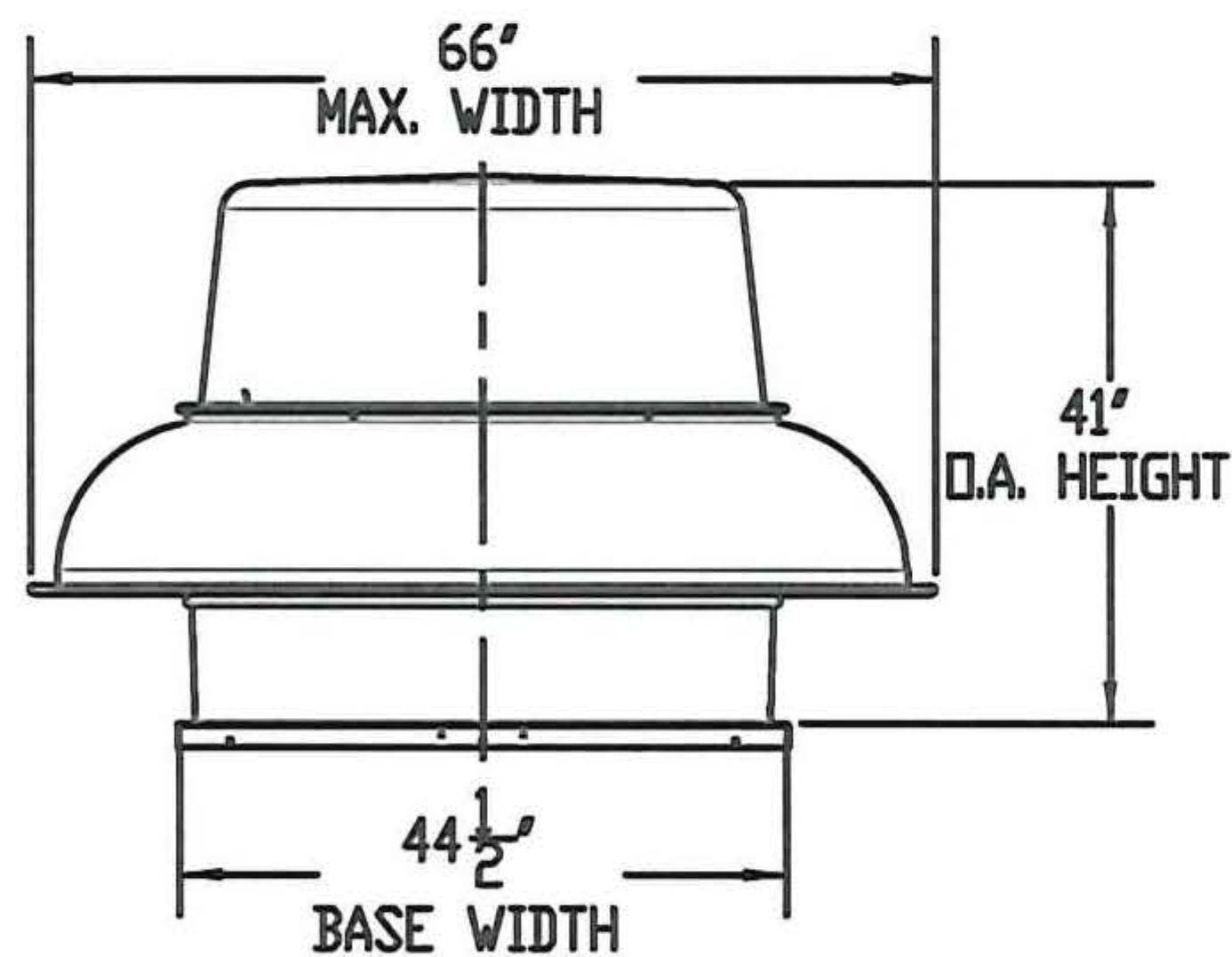
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| DRAWN | DWG NO.    |        | REV |
| AMIT  | 08-00622   |        |     |
| NTS   | DATE       | SHEET  |     |
|       | 12/07/2016 | 1 OF 6 |     |

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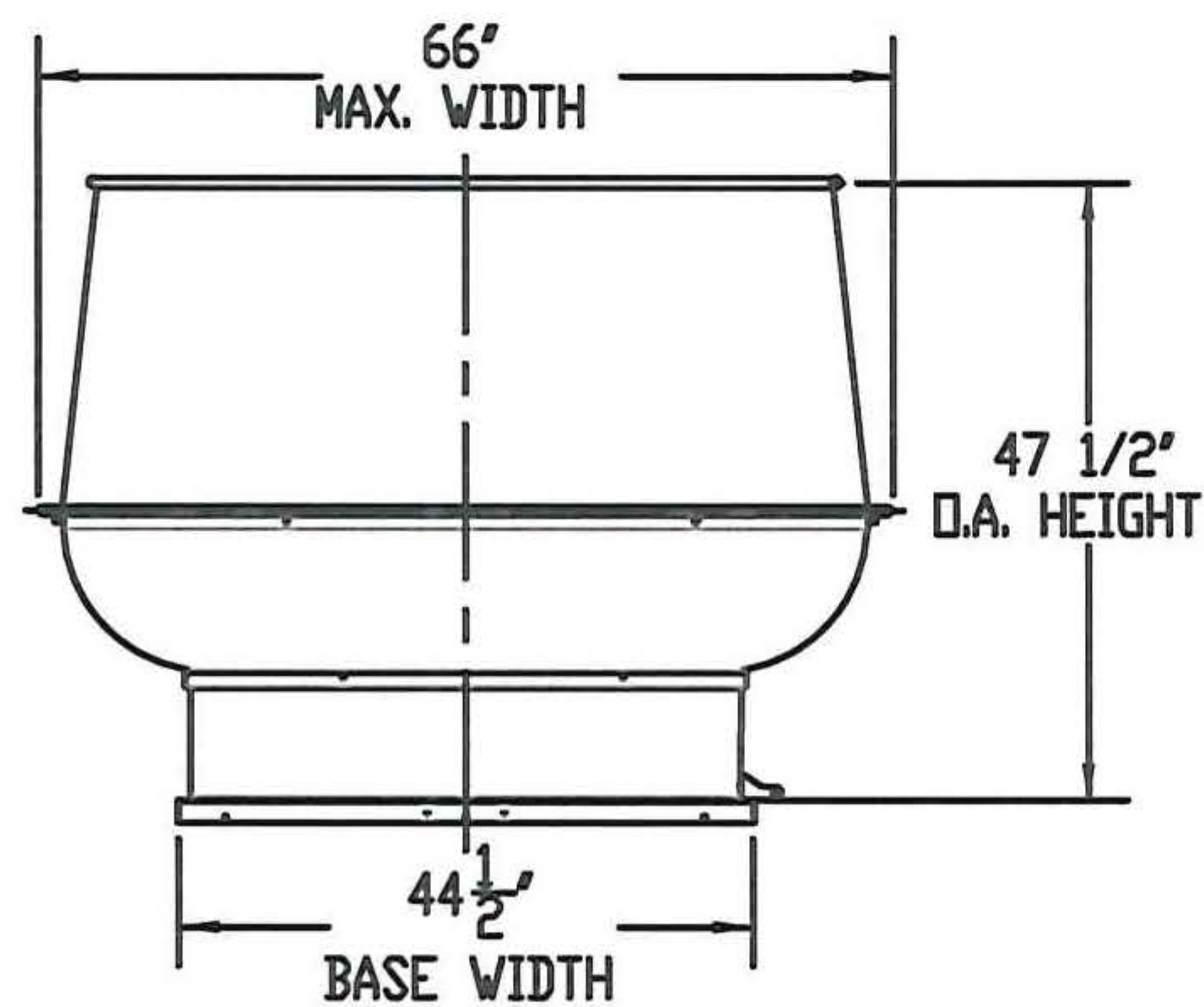
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DX36B DOMEX DOWNBLAST ROOF VENT  
TOP VIEW



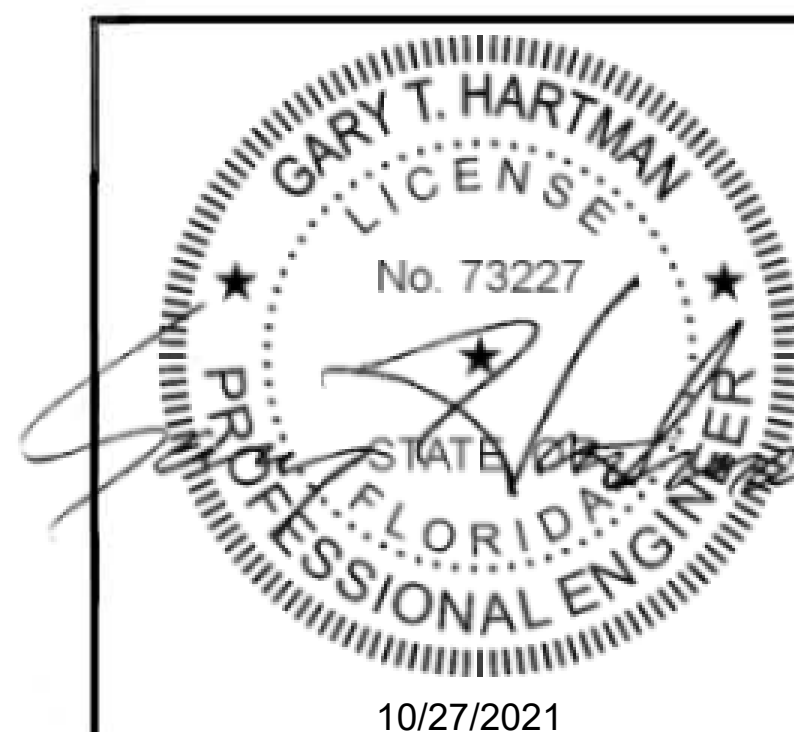
FX36B FUMEX UPBLAST ROOF VENT  
TOP VIEW



| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV.      | DESCRIPTION | DATE | APPROVED |
| A         | -           | -    | -        |

| APPROVED MODELS - DOMEX |              |                 |                 |                  |              |
|-------------------------|--------------|-----------------|-----------------|------------------|--------------|
| MODEL NAME              | DRIVE        | BASE WIDTH (IN) | MAX. WIDTH (IN) | D.A. HEIGHT (IN) | WEIGHT (LBS) |
| DX11B                   | BELT DRIVE   | 20 1/2          | 28 1/2          | 25 7/16          | 55           |
| DX11Q                   | DIRECT DRIVE | 18 1/2          | 20 7/8          | 13 3/8           | 40           |
| DX12B / DX14B           | BELT DRIVE   | 24 3/4          | 33 1/2          | 29               | 98           |
| DX16B / DX18B           | BELT DRIVE   | 28 1/2          | 39              | 31               | 132          |
| DX16V                   | DIRECT DRIVE | 20 1/2          | 28 1/2          | 22 1/2           | 56           |
| DX18V                   | DIRECT DRIVE | 28 1/2          | 39              | 31               | 78           |
| DX24B                   | BELT DRIVE   | 33 1/2          | 46              | 33               | 183          |
| DX27B / DX30B           | BELT DRIVE   | 36 1/2          | 53 1/2          | 35               | 210          |
| DX36B                   | BELT DRIVE   | 44 1/2          | 66              | 41               | 420          |

| APPROVED MODELS - FUMEX |              |                 |                 |                  |              |
|-------------------------|--------------|-----------------|-----------------|------------------|--------------|
| MODEL NAME              | DRIVE        | BASE WIDTH (IN) | MAX. WIDTH (IN) | D.A. HEIGHT (IN) | WEIGHT (LBS) |
| FX08B / FX10B           | BELT DRIVE   | 24 3/4          | 35              | 28 3/4           | 96           |
| FX13B                   |              |                 |                 |                  | 110          |
| FX14B                   |              |                 |                 |                  | 112          |
| FX08R                   | DIRECT DRIVE | 18 1/2          | 25              | 14 1/8           | 29           |
| FX10R                   |              |                 |                 |                  | 32           |
| FX13Q                   |              |                 |                 |                  | 52           |
| FX16B / FX18B           | BELT DRIVE   | 28 1/2          | 39              | 31               | 145          |
| FX16Q                   | DIRECT DRIVE | 20 1/2          | 30 3/4          | 22 3/8           | 71           |
| FX18Q                   | DIRECT DRIVE | 28 1/2          | 39              | 31               | 87           |
| FX24B                   | BELT DRIVE   | 33 1/2          | 46              | 34 1/2           | 190          |
| FX30B                   | BELT DRIVE   | 36 1/2          | 53 1/2          | 35 1/2           | 219          |
| FX36B                   | BELT DRIVE   | 44 1/2          | 66              | 47 1/2           | 470          |



PennBarry 605 Shiloh RD Plano, TX 75074

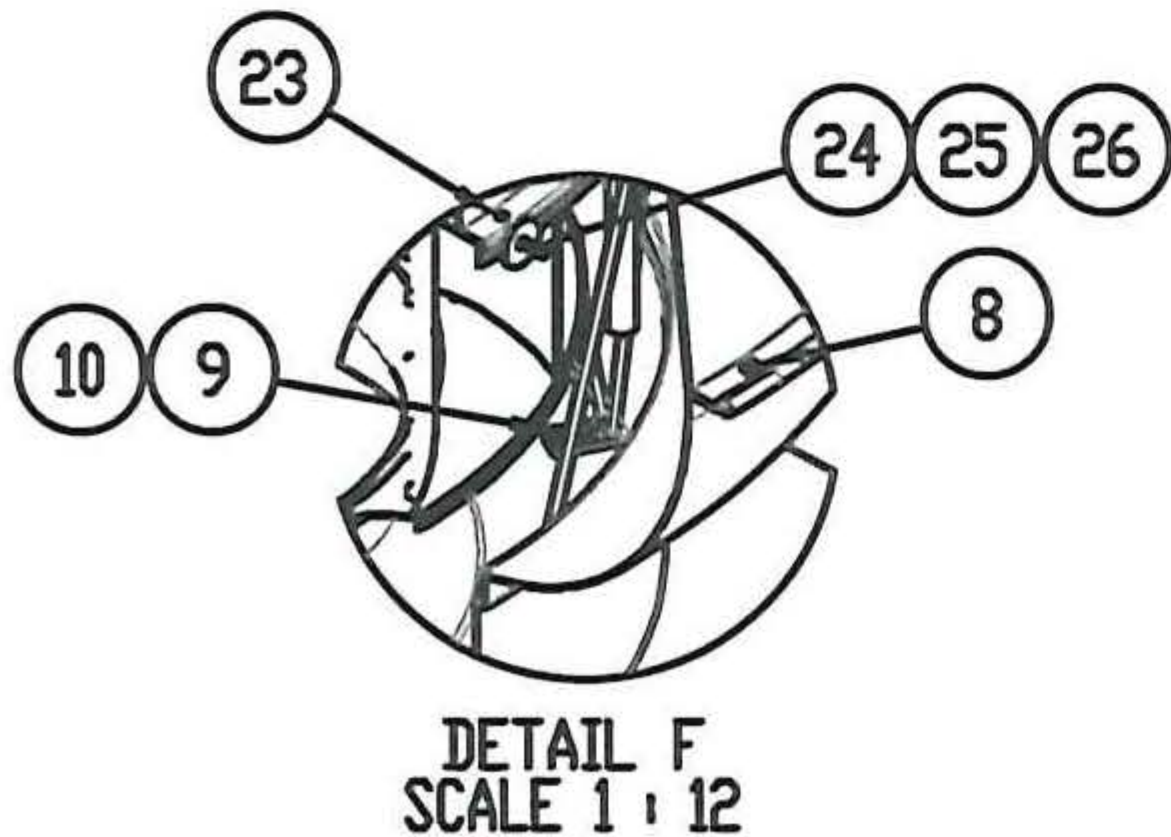
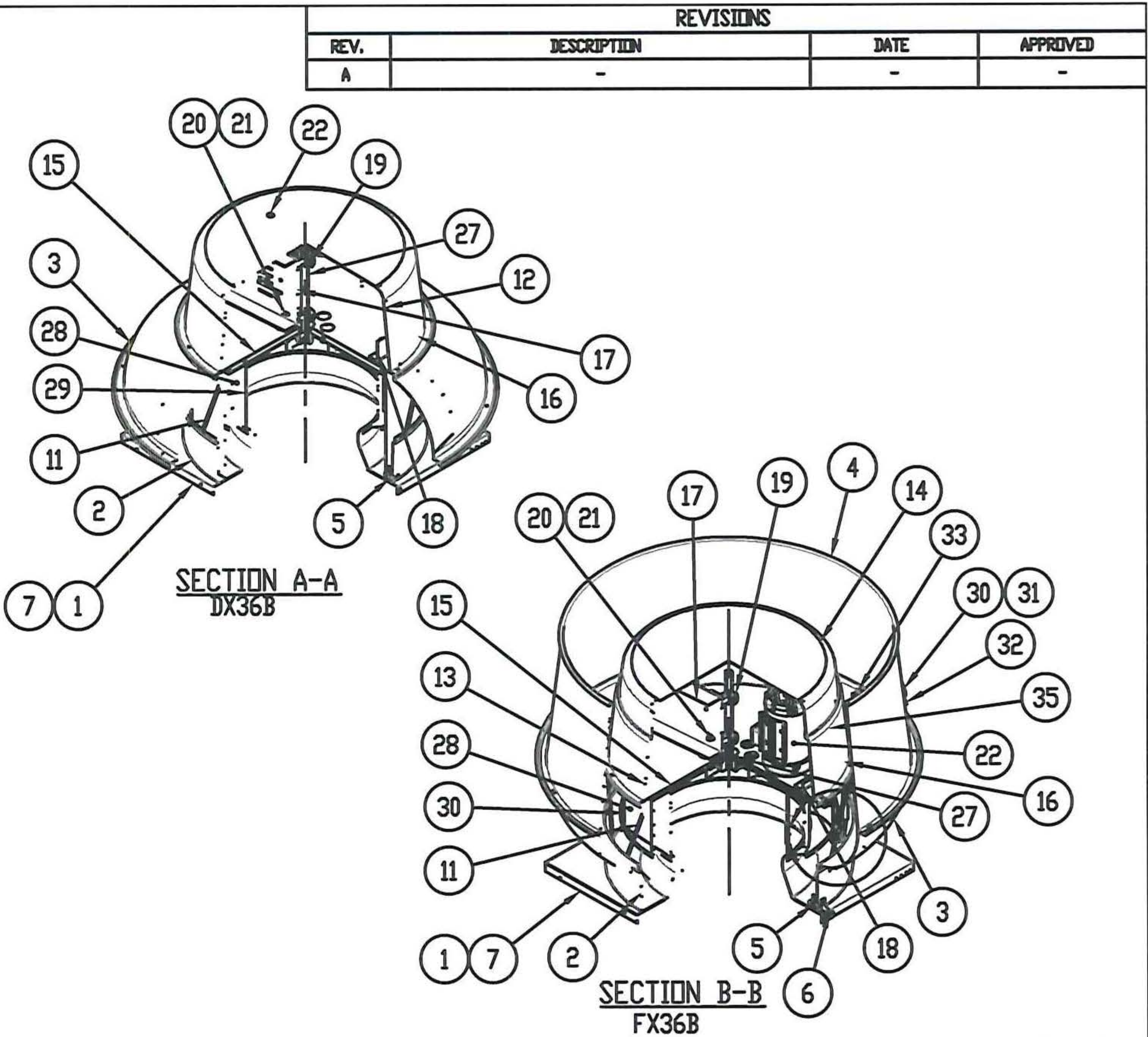
Dx DOMEX DOWNBLAST ROOF VENT  
Fx FUMEX UPBLAST ROOF VENT  
ELEVATION, TOP VIEW & DIMENSIONS TABLE

|             |      |         |            |       |        |
|-------------|------|---------|------------|-------|--------|
| DESIGNED BY | AMIT | DWG NO. | 08-00622   | REV   |        |
| SCALE       | NTS  | DATE    | 12/07/2016 | SHEET | 2 OF 6 |

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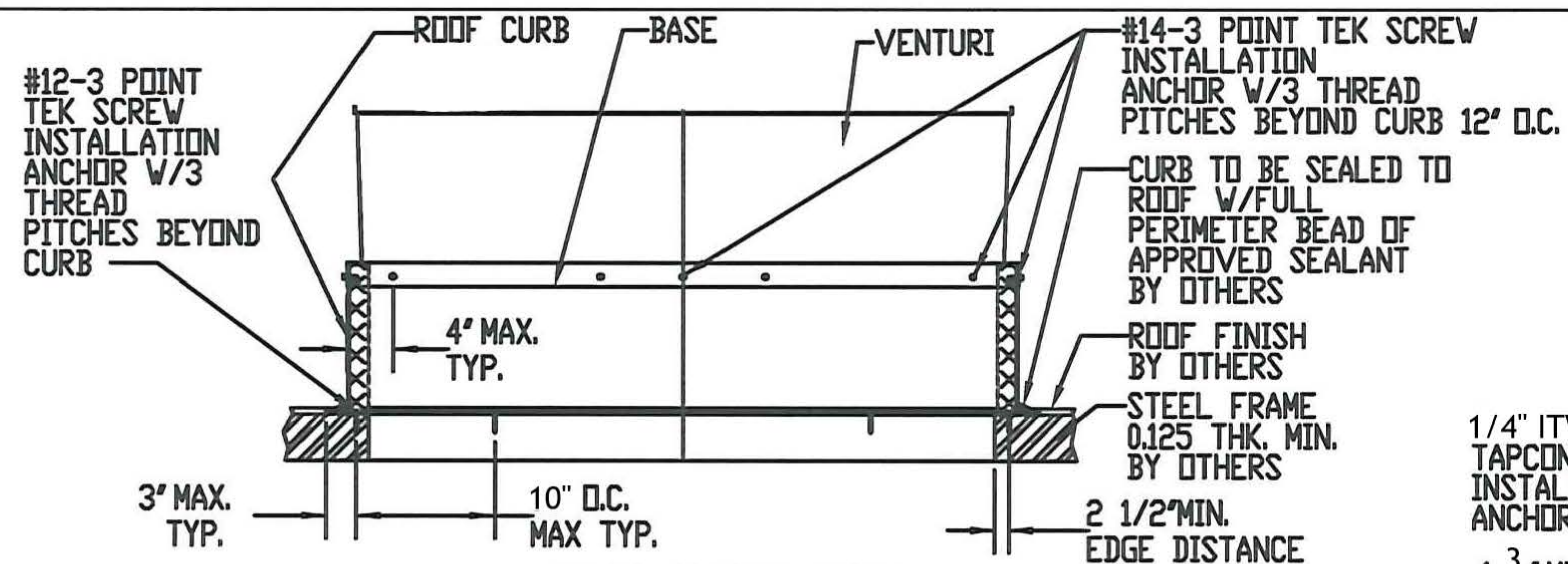
| ITEM NO. | PART NUMBER | DESCRIPTION                                 | MANUFACTURER       | MATERIAL           |
|----------|-------------|---------------------------------------------|--------------------|--------------------|
| 1        | 16006-1     | OPTIONAL BASE                               | PENNBARRY          | G-90 GALV. STEEL   |
| 2        | 16036-0     | VENTURI                                     | PENNBARRY          | ALUMINIUM 1100-0   |
| 3        | 16128-0     | DISCHARGE APRON                             | PENNBARRY          | ALUMINIUM 1100-0   |
| 4        | 16153-0     | WINDBAND                                    | PENNBARRY          | ALUMINIUM 1100-0   |
| 5        | 18380-0     | WIRE BRACE CLIP                             | LEESON             | G-90 GALV. CRS     |
| 6        | 16392-0     | DRAIN SPOUT                                 | PENNBARRY          | ALUMINIUM 1100-H14 |
| 7        | 16006-0     | BASE                                        | PENNBARRY          | ALUM 3003-H14      |
| 8        | 55696-0     | 1/4-20 X 3/4" HEX. SERRATED FLANGE SCREW    | ILS                | SAE J995 GRADE 5   |
| 9        | 55500-0     | 1/4-20 SERRATED FLANGE NUT                  | ILS                | SAE J995 GRADE 2   |
| 10       | 55640-0     | 1/4-20 PEM HIGH STRENGTH STUD               | ILS                | STEEL              |
| 11       | 16255-0     | WIRE SUPPORT                                | RACINE IRON & WIRE | G-90 GALV. CRS     |
| 12       | 16178-0     | MOTOR HOOD                                  | PENNBARRY          | ALUMINIUM 1100-0   |
| 13       | 16230-0     | HOOD BOTTOM                                 | PENNBARRY          | ALUMINIUM 1100-0   |
| 14       | 16205-0     | HOOD TOP                                    | PENNBARRY          | ALUMINIUM 1100-0   |
| 15       | 16055-0     | TOP PLATE                                   | PENNBARRY          | ALUMINIUM 1100-0   |
| 16       | 63010-0     | VIBRATION ISOLATOR                          | ELECTROLINE CORP.  | SANTOPRENE         |
| 17       | 16304-0     | MOTOR MOUNTING PLATE                        | PENNBARRY          | G-90 GALV. CRS     |
| 18       | 16280-0     | MOTOR SUPPORT ANGLE                         | PENNBARRY          | G-90 GALV. STEEL   |
| 19       | 57091-0     | BEARING                                     | POWER RITE         | CAST IRON          |
| 20       | 55510-0     | 1/2-13 SERRATED FLANGE NUT                  | ILS                | ZINC COATED STEEL  |
| 21       | 55601-0     | 1/2-13 x 1 1/2" HEX. SERRATED FLANGE SCREW  | ILS                | SAE J429 GRADE 2   |
| 22       | MOTOR       | MOTOR                                       | -                  | -                  |
| 23       | 55940-0     | 1/4" BODY DIA. POP RIVET                    | -                  | ZINC COATED STEEL  |
| 24       | 55514-0     | 5/16-18 X 1 1/2" HEX. SERRATED FLANGE SCREW | ILS                | SAE J429 GRADE 2   |
| 25       | 55501-0     | 5/16-18 SERRATED LARGE FLANGE NUT           | ILS                | SAE J995 GRADE 2   |
| 26       | 55541-0     | WASHER 1/8"x3/8"x1 3/4"                     | ILS                | ZINC PLATED STEEL  |
| 27       | 03348-0     | SHAFT                                       | DEM CORP.          | CD 1045 STEEL      |
| 28       | 21179-0     | FAN WHEEL                                   | PENNBARRY          | ALUMINIUM, VARIOUS |
| 29       | 13386-0     | WHEEL BACK PLATE                            | PENNBARRY          | -                  |
| 30       | 13027-0     | WHEEL BLADE                                 | PENNBARRY          | -                  |
| 31       | 13029-1     | WHEEL PLATE                                 | PENNBARRY          | -                  |
| 32       | 16405-0     | COOLING TUBE ASSY.                          | PENNBARRY          | ALUMINIUM 6005-T5  |
| 33       | 16406-0     | COOLING TUBE                                | PENNBARRY          | ALUMINIUM 6005-T5  |
| 34       | 55286-0     | COTTER PIN                                  | ILS                | ANSI D 18.8.1      |
| 35       | 63043-0     | GROMMET                                     | RUBBERMILL         | BLACK SILICONE     |
| 36       | 18285-0     | HORIZONTAL BRACE                            | PENNBARRY          | G-90 GALV. STEEL   |
| 37       |             | ROOF CURB (OPTIONAL)                        | RPS                | G-90 GALV. STEEL   |
| 36       |             | ROOF CURB                                   | WARD INDUSTRIES    | ALUM 3003-H14      |



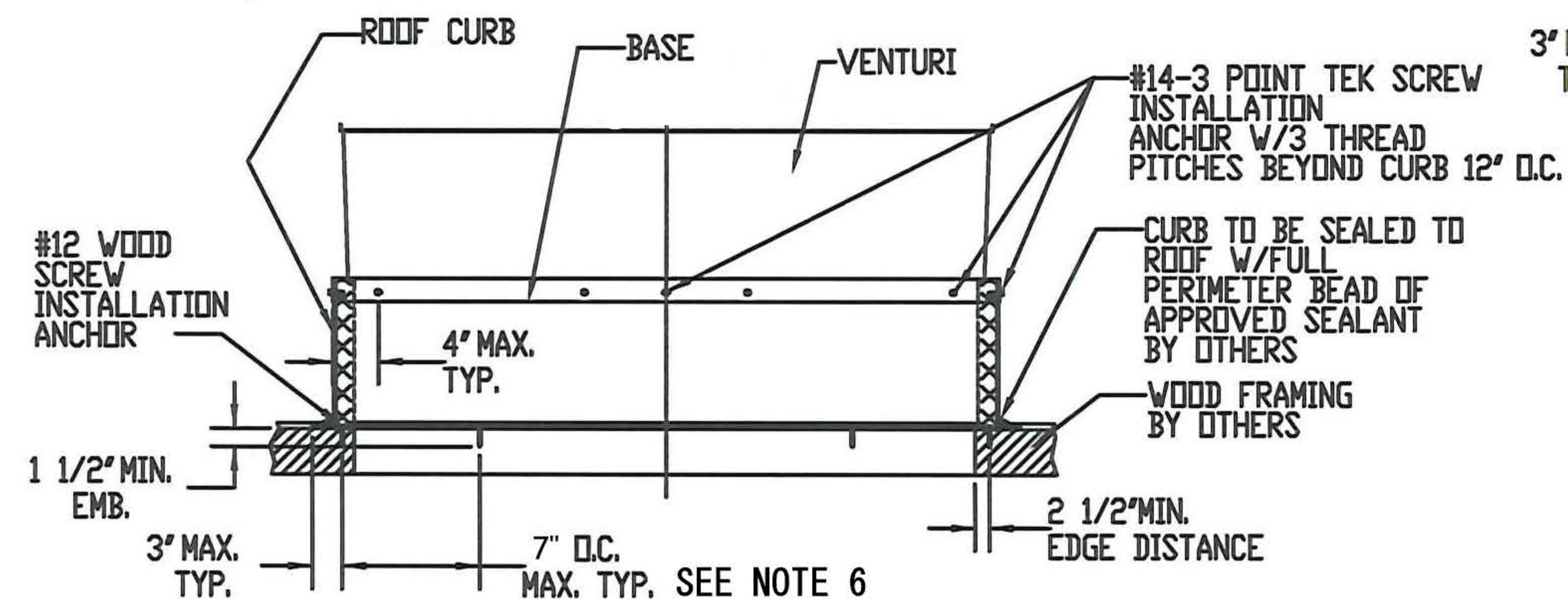
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| PennBarry 605 Shiloh RD Plano, TX 75074                                         |                     |                 |
| Dx DOMEX DOWNBLAST ROOF VENT<br>Fx FUMEX UPBLAST ROOF VENT<br>B.O.M. & SECTIONS |                     |                 |
| DESIGNED BY<br>AMIT                                                             | DWG NO.<br>08-00622 | REV.            |
| SCALE<br>NTS                                                                    | DATE<br>12/07/2016  | SHEET<br>3 OF 6 |

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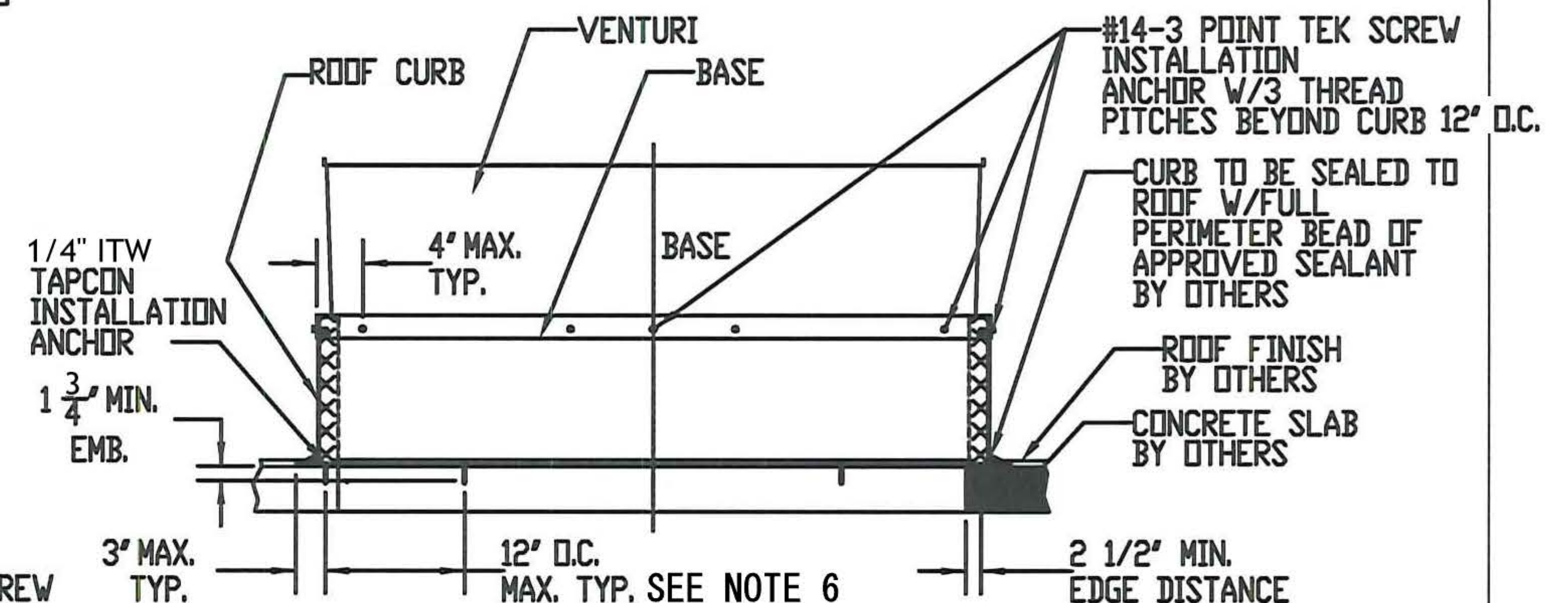


STEEL FRAMED ROOF  
DOMEX & FUMEX INSTALLATION DETAILS



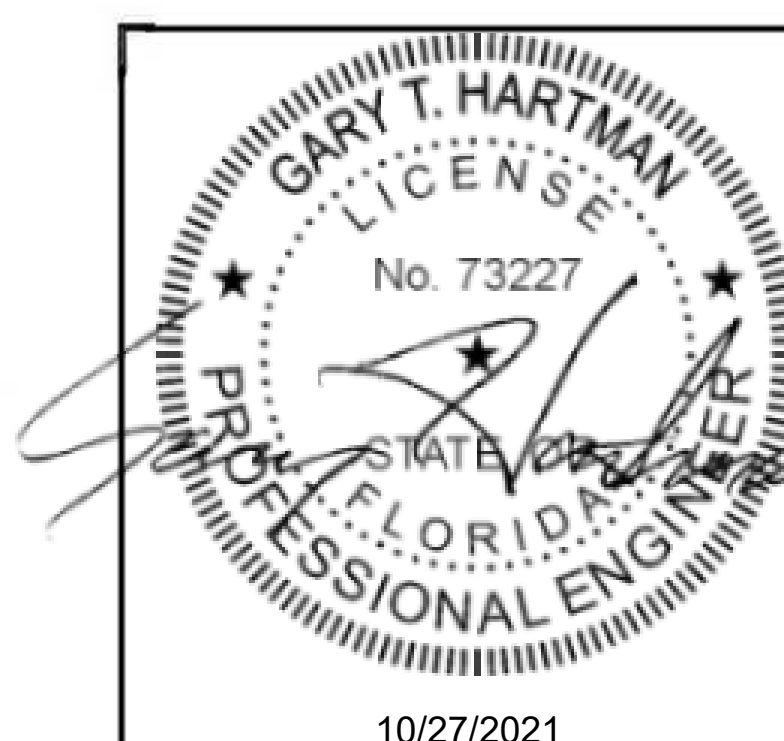
WOOD FRAMED ROOF  
DOMEX & FUMEX INSTALLATION DETAILS

| REVISIONS |                        |            |          |
|-----------|------------------------|------------|----------|
| REV.      | DESCRIPTION            | DATE       | APPROVED |
| B         | REDUCED ANCHOR SPACING | 10/20/2021 | GH       |



CONCRETE SLAB ROOF  
DOMEX & FUMEX INSTALLATION DETAILS

- NOTES:
1. ALL FOUR SIDES OF CURB AND BASE ARE ANCHORED IDENTICALLY.
  2. ROOF CURB IS INSTALLED TO ROOF FIRST. FAN IS THEN MOUNTED TO CURB USING #14-3POINT TEK SCREWS AS SHOWN ABOVE.
  3. SEE SHEET 5, COMPONENTS FOR ROOF CURB CONSTRUCTION.
  4. UNITS MAYBE INSTALLED WITH ITEM 34, ALUMINUM 3003-H14 CURB OR ITEM 30, GALVANIZED STEEL CURB.
  5. UNITS MAY BE INSTALLED WITH ITEM 35, ALUMINIUM 3003-H14 BASE OR ITEM , GALVANIZED STEEL BASE.
  6. MIN (9) #12 WOOD SCREWS OR (7) 1/4 IN. TAPCONS PER SIDE FOR MODEL FX36B



10/27/2021

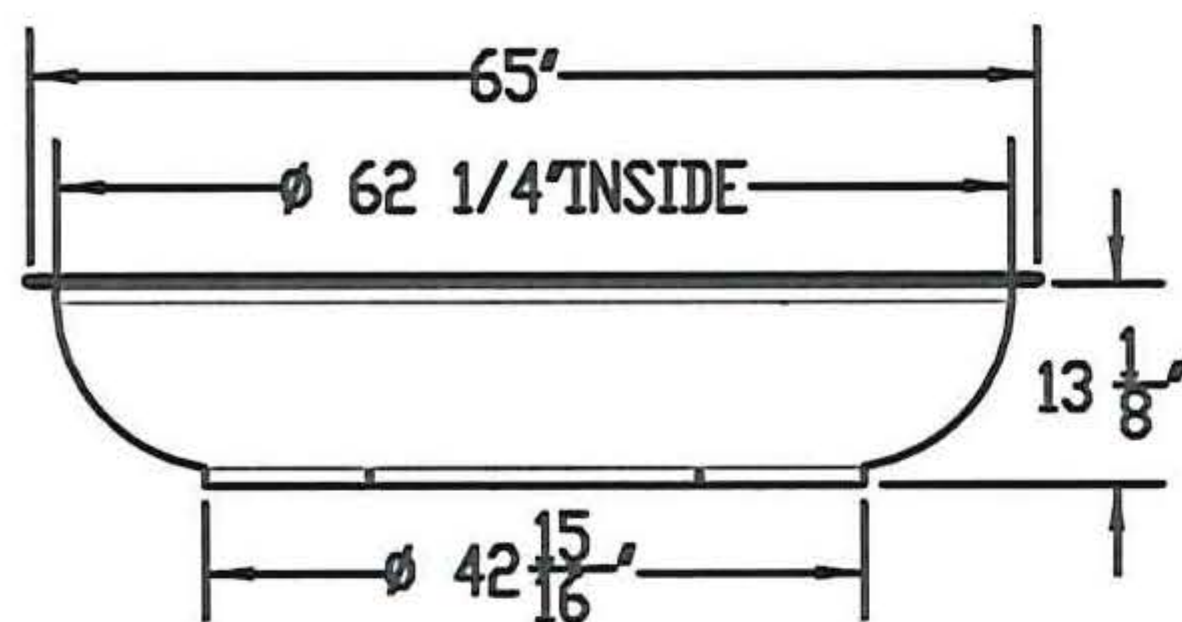
PennBarry 605 Shiloh RD Plano, TX 75074

Dx DOMEX DOWNBLAST ROOF VENT  
Fx FUMEX UPBLAST ROOF VENT  
INSTALLATION DETAILS

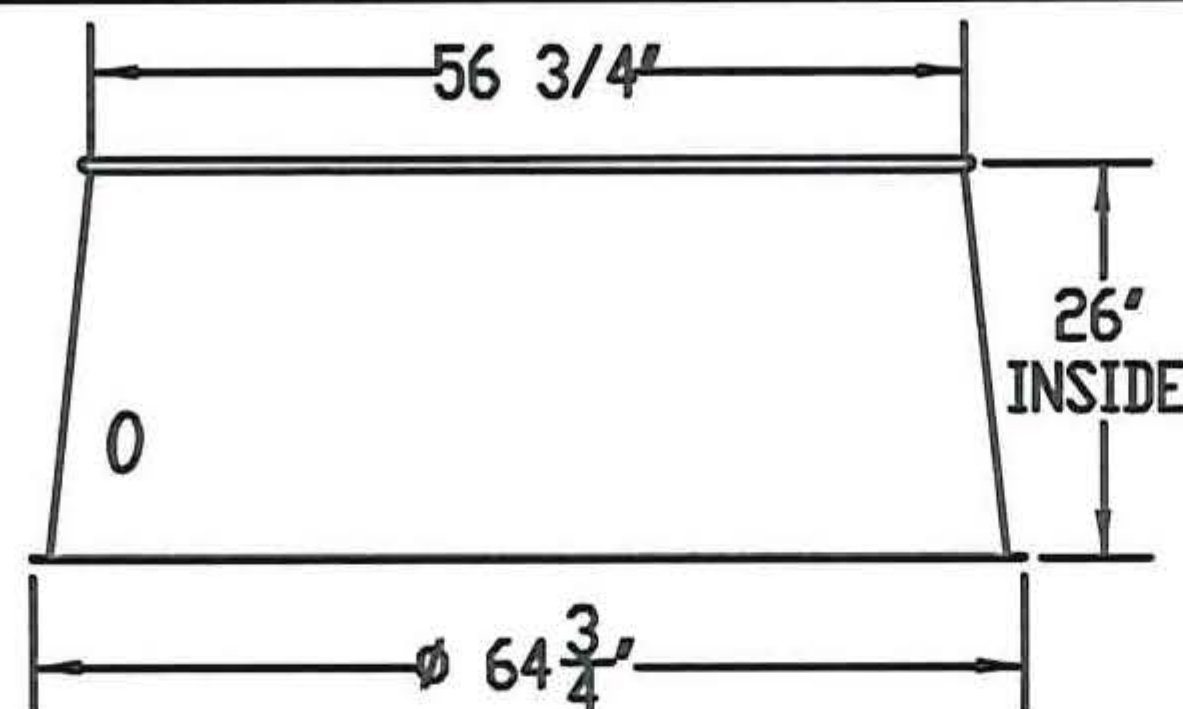
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| DESIGNER | AMIT | DWG NO. | 08-00622   | REV   |        |
| SCALE    | NTS  | DATE    | 12/07/2016 | SHEET | 4 OF 6 |

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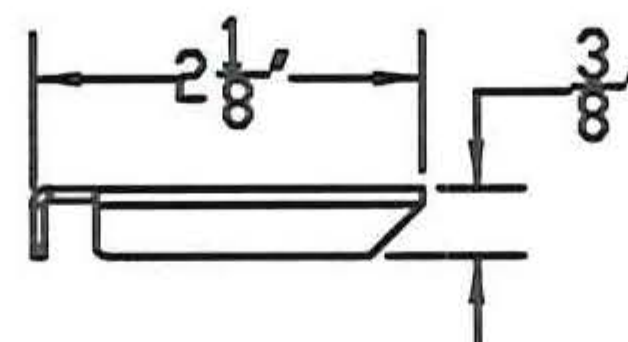
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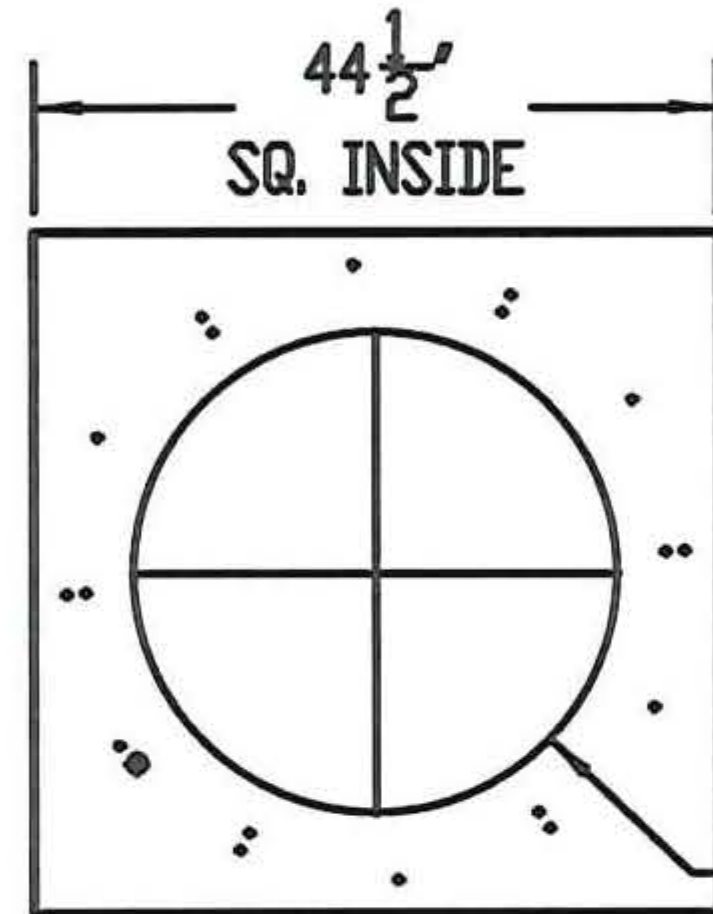
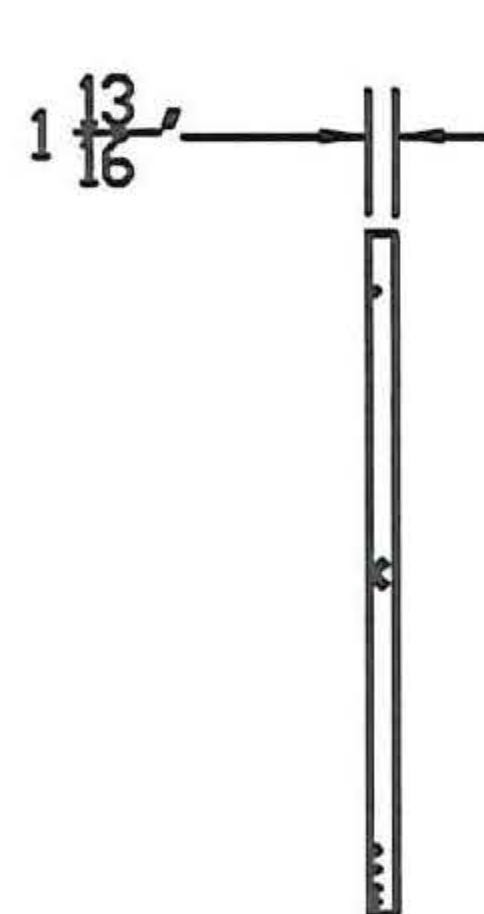
DISCHARGE APRON  
0.080" THK. 1100-O ALUM.



WIND BAND  
0.055" THK. 1100-O ALUM.



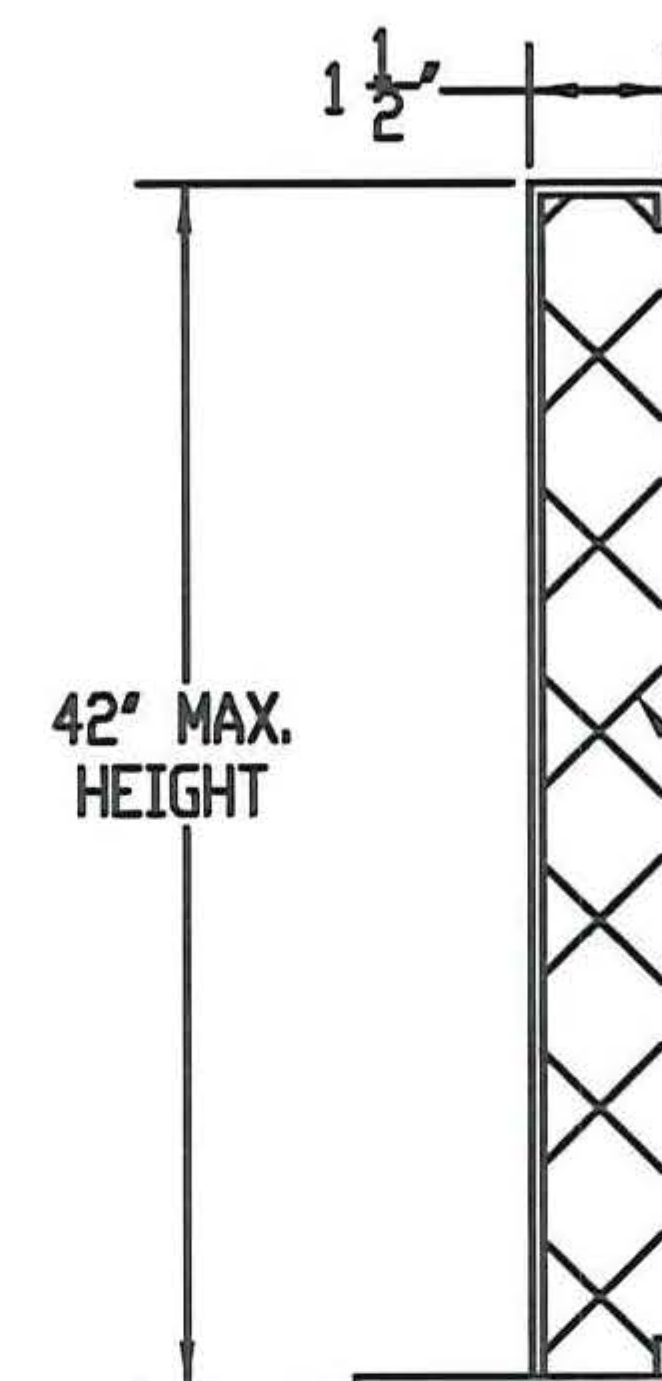
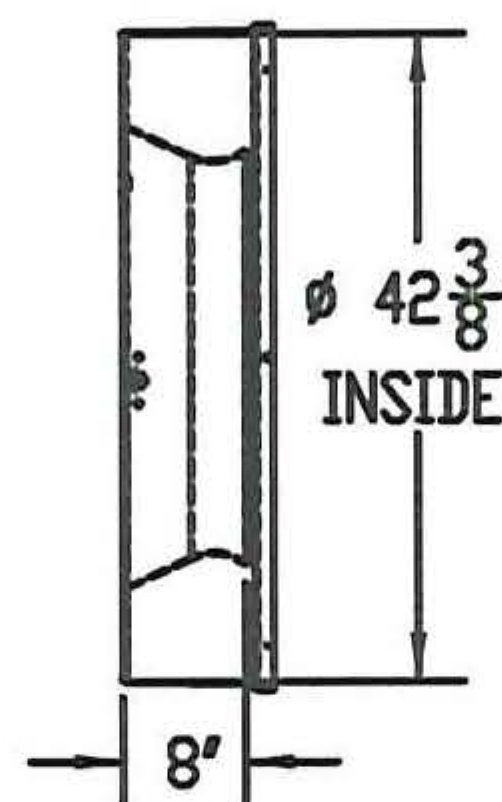
WIRE BRACE CLIP  
0.064" THK. G-90 GALV. STEEL



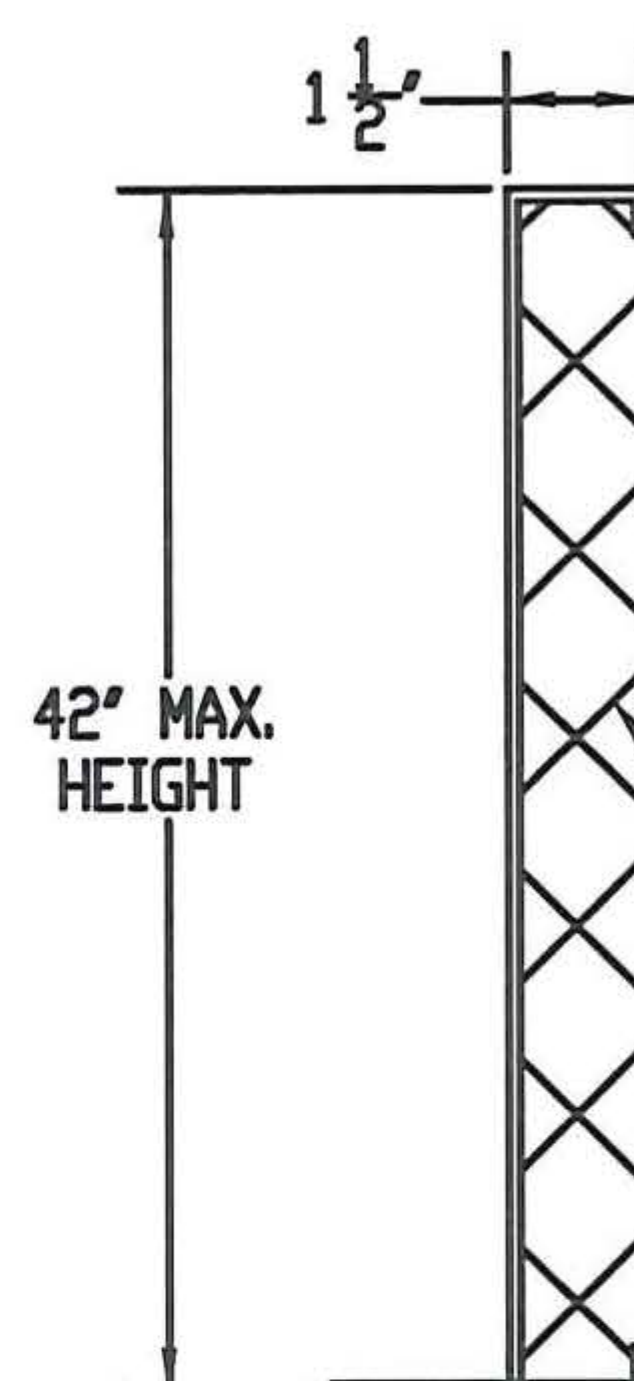
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0.1084" THK. G-90 GALV. STEEL  
MI VALUE : X=984.7883  
Y=0.3713



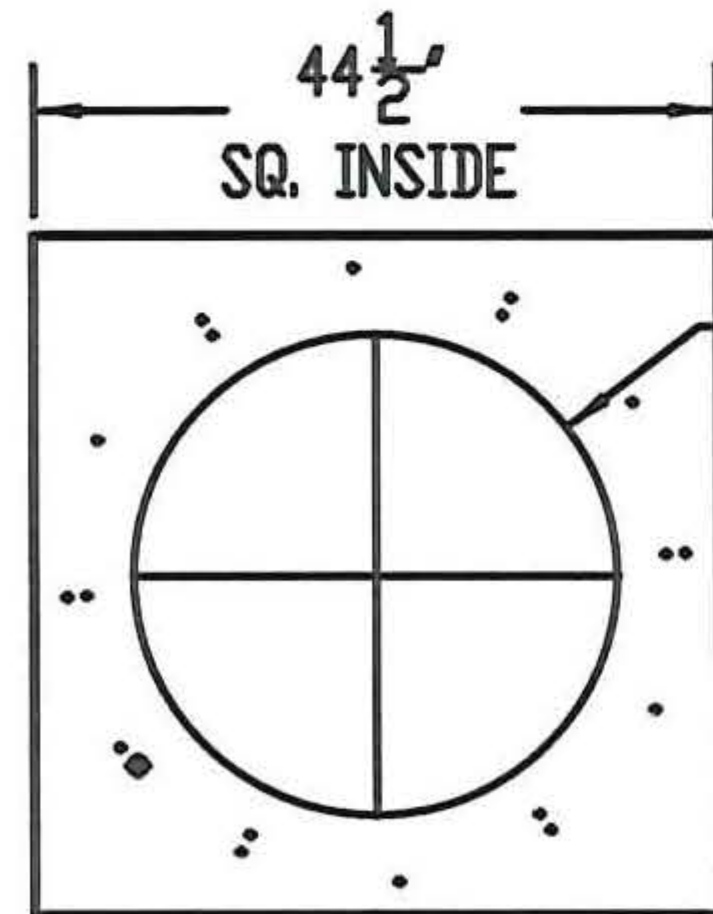
VENTURI  
0.064" THK. 1100-O ALUM.



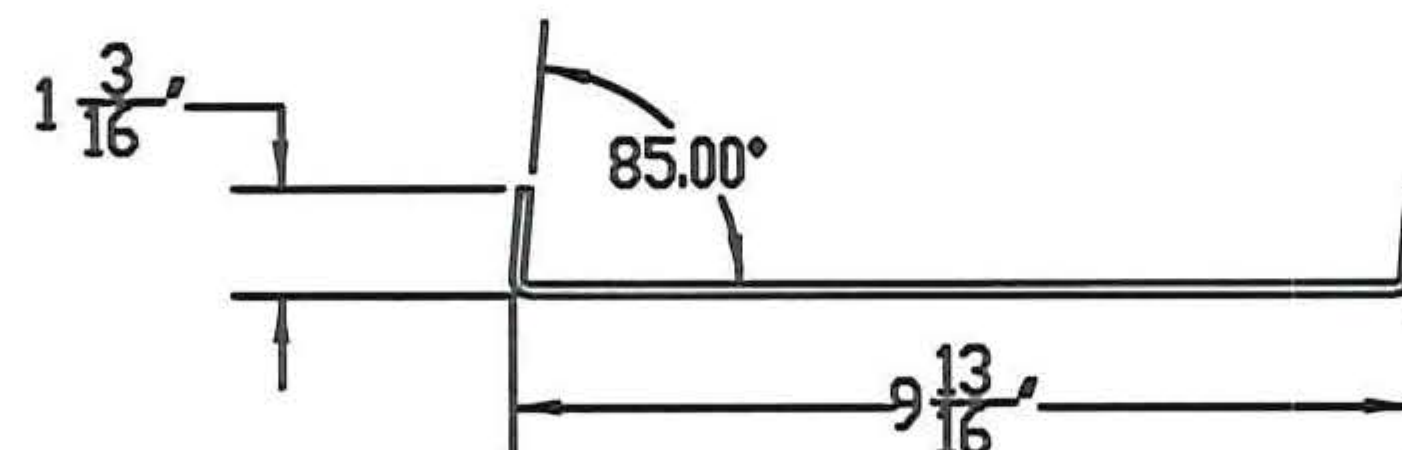
OPTIONAL ROOF CURB  
ALUMINIUM 3003-H14 10GA, 0.125" THK.  
MI VALUE : X= 51.1390  
Y=0.7384



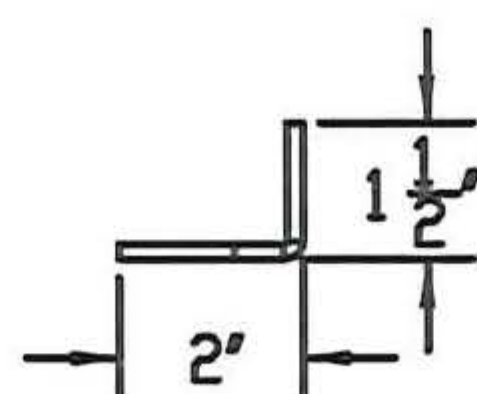
ROOF CURB  
18GA G-90 GALV. STEEL  
MI VALUE : X= 20.5405  
Y=0.3060



BASE  
0.102" THK. ALUMINIUM 3003-H14  
MI VALUE : X=927.2038  
Y=0.3508



HORIZONTAL BRACE  
0.138" THK. G-90 GALV. STEEL



MOTOR SUPPORT ANGLE  
0.138" THK. G-90 GALV STEEL

| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV.      | DESCRIPTION | DATE | APPROVED |
| A         | -           | -    | -        |

NOTES:  
THICKNESSES SHOWN FOR DISCHARGE APRON & VENTURI ARE  
PRE-SPUN THICKNESSES.



10/27/2021

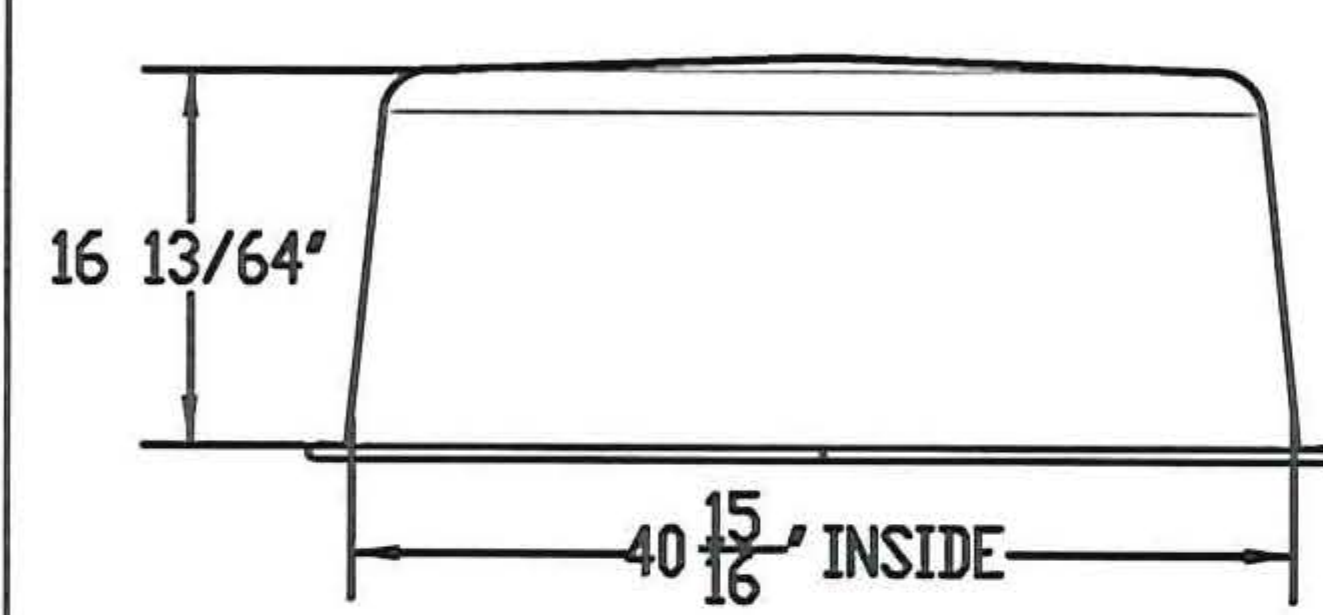
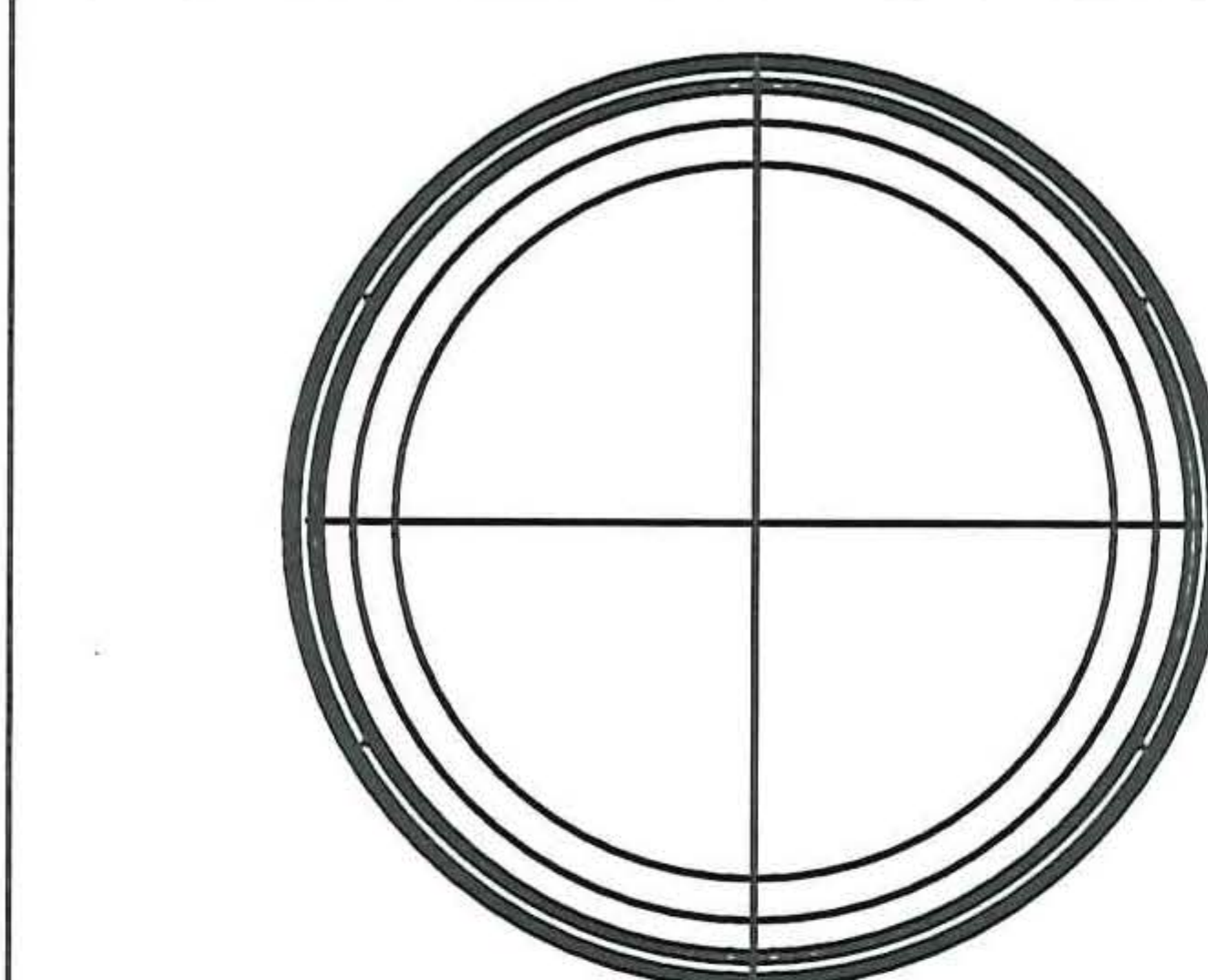
PennBarry 605 Shiloh RD Plano, TX 75074

Dx DOMEX DOWNBLAST ROOF VENT  
Fx FUMEX UPBLAST ROOF VENT  
COMPONENTS

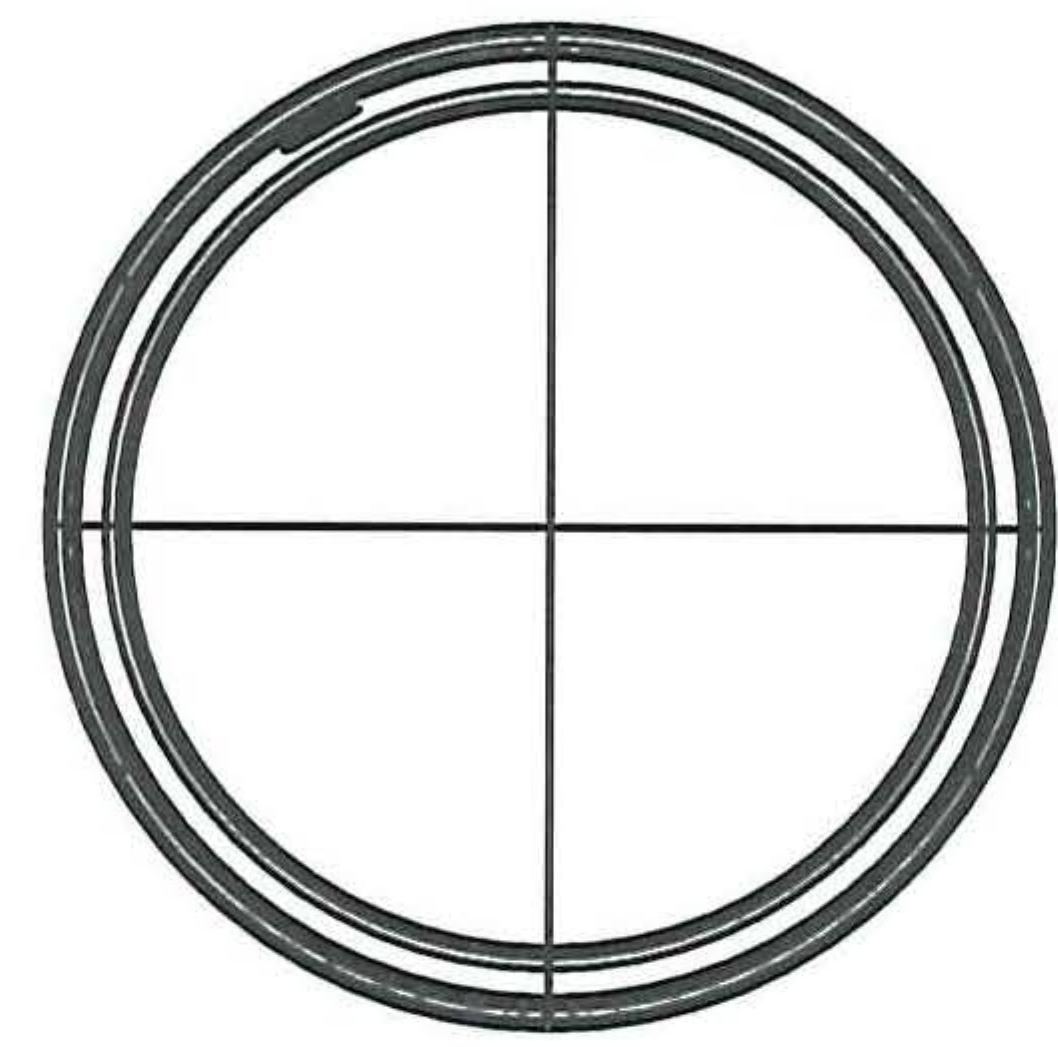
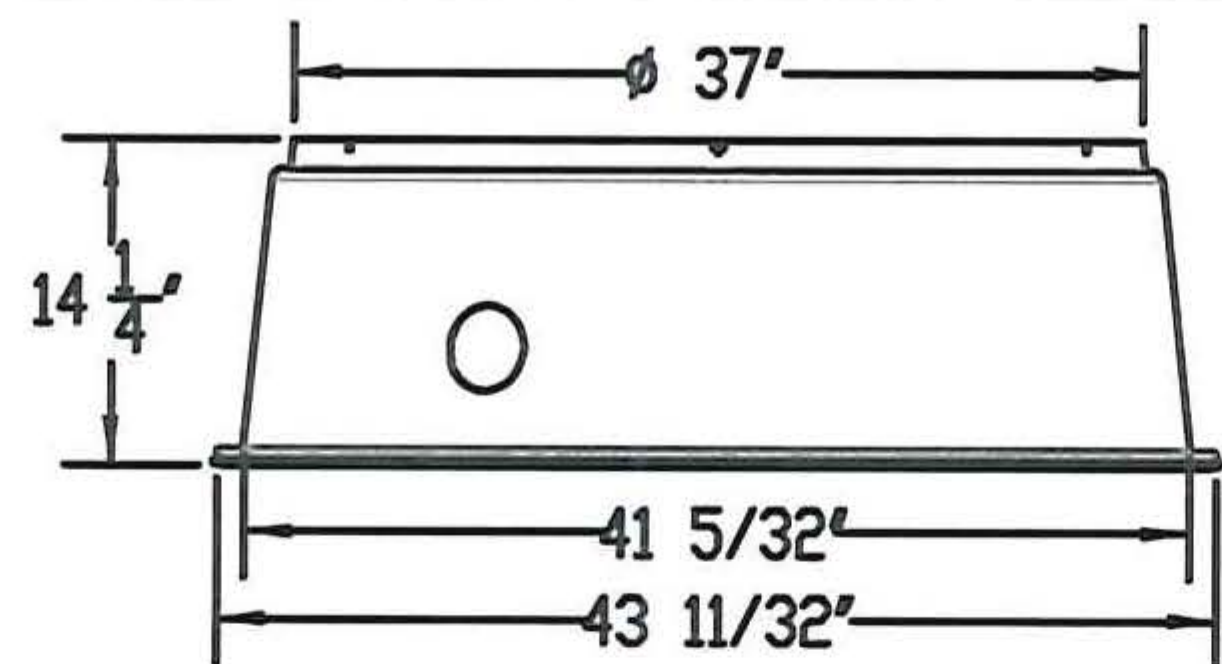
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|------|------------|--------|
| DRWN | DATE       | REV    |
| AMIT | 08-00622   |        |
| NTS  | 12/07/2016 | 5 OF 6 |

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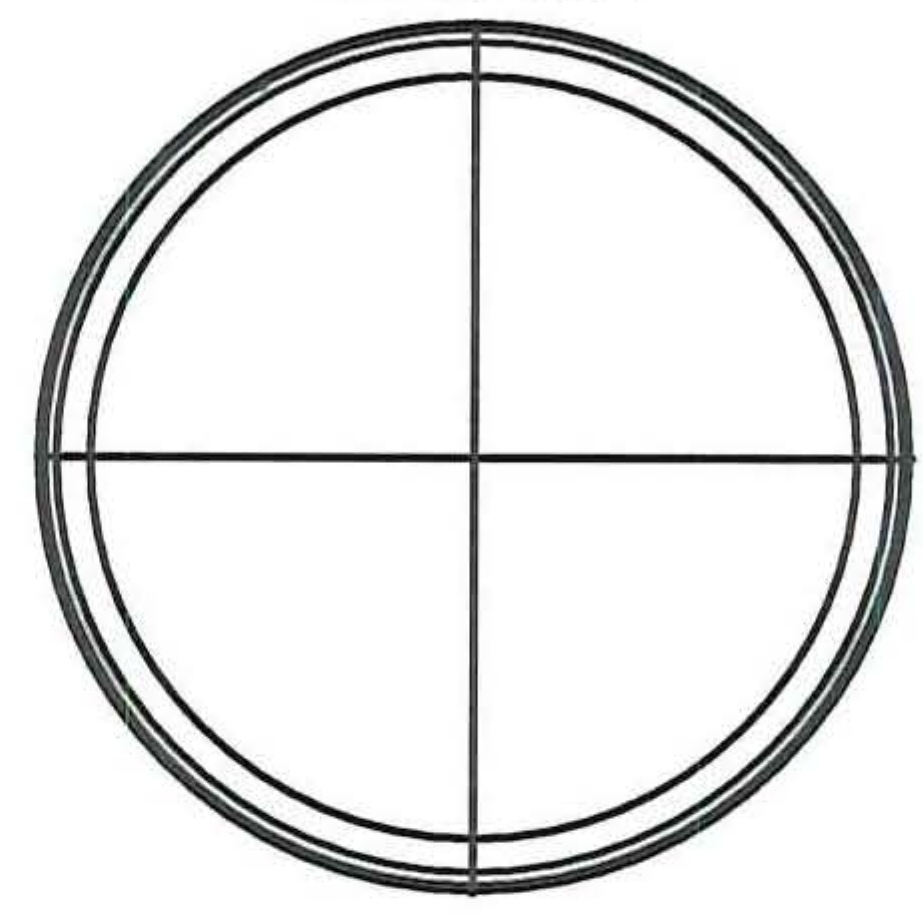
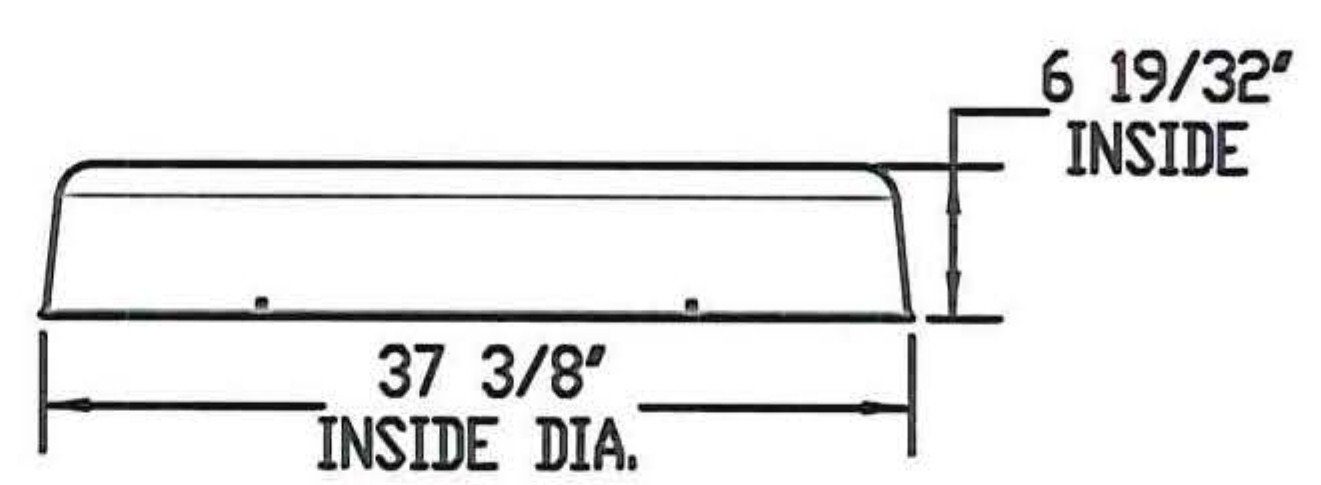
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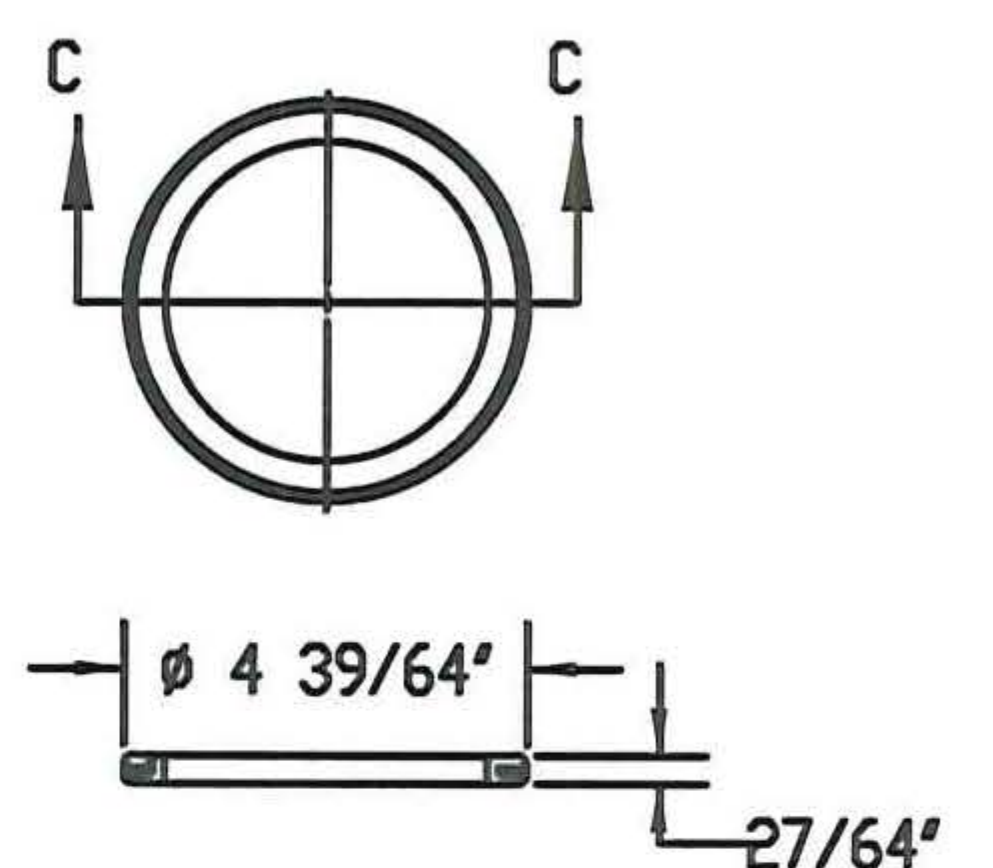
MOTOR HOOD  
0.08" THK. 1100-D ALUM



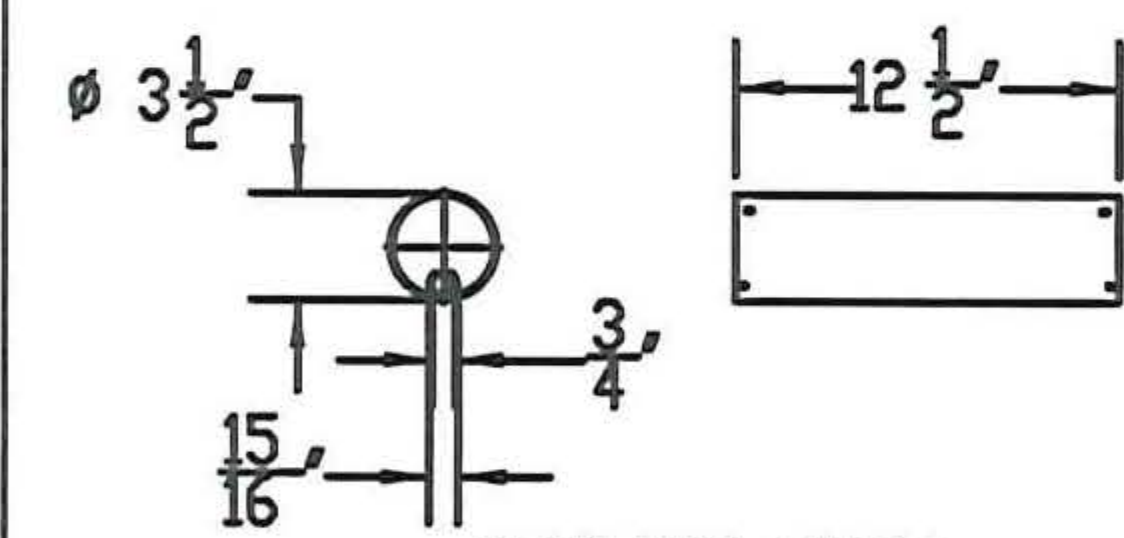
HOOD BOTTOM  
0.08" THK. 1100-D ALUM



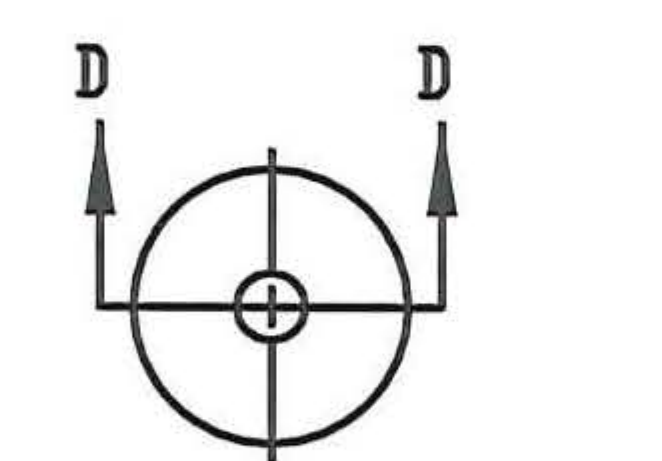
HOOD TOP  
0.064" THK 1100-D ALUM



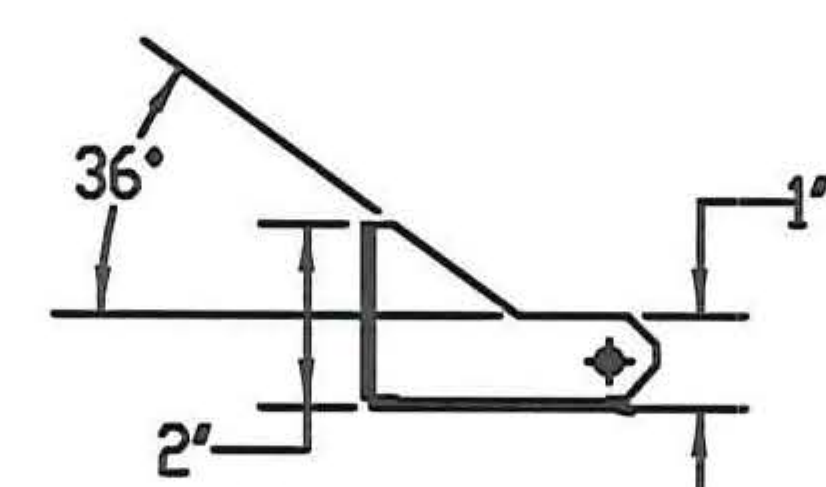
GROMMET  
BLACK SILICONE  
SECTION C-C



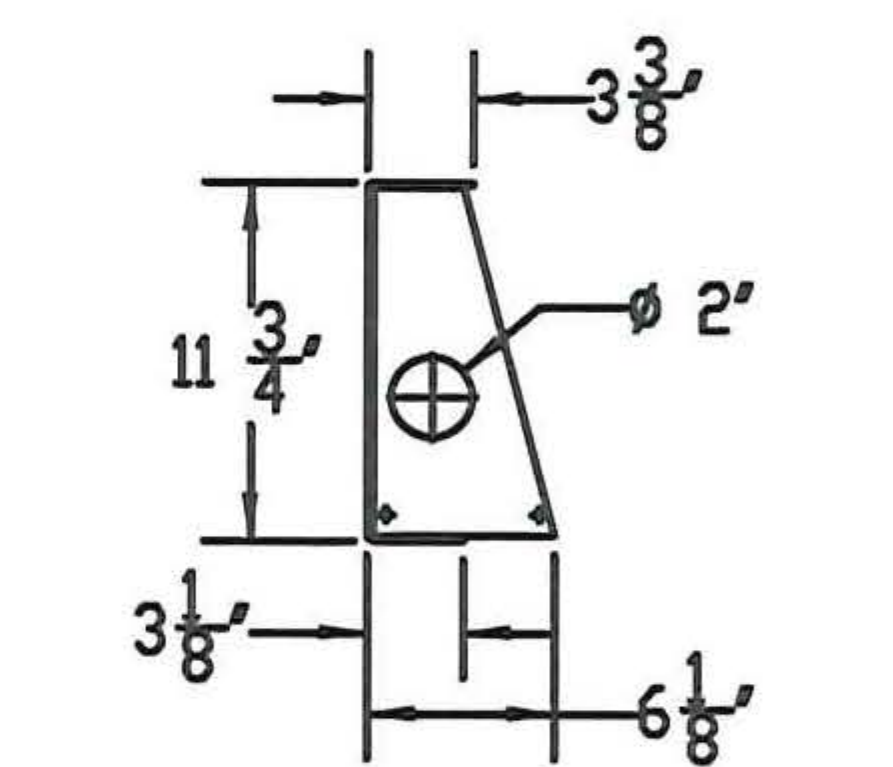
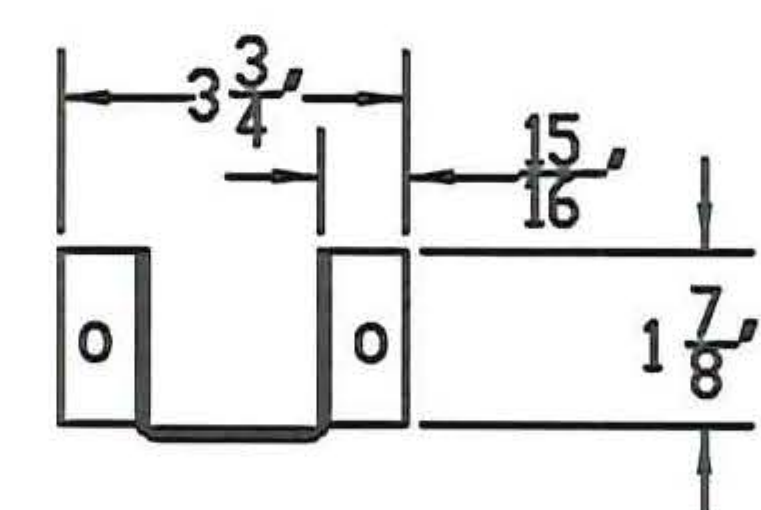
COOLING TUBE



VIBRATION ISOLATOR  
SANTOPRENE  
SECTION D-D



DRAIN SPOUT  
THK. 1100-H14 ALUM



MOTOR MOUNTING PLATE  
0.1084" THK. G-90 GALV. CRS

NOTES:  
THICKNESSES SHOWN FOR HOOD BOTTOM, HOOD TOP & MOTOR  
HOOD ARE PRE-SPUN THICKNESSES.

| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV.      | DESCRIPTION | DATE | APPROVED |
| A         | -           | -    | -        |



PennBarry 605 Shiloh RD Plano, TX 75074

Dx DOMEX DOWNBLAST ROOF VENT  
Fx FUMEX UPBLAST ROOF VENT  
COMPONENTS

|       |      |         |            |        |
|-------|------|---------|------------|--------|
| DRAWN | AMIT | DWG NO. | 08-00622   | REV    |
|       | NTS  | DATE    | 12/07/2016 | SHEET  |
|       |      |         |            | 6 OF 6 |

This item has been electronically  
signed and sealed by Gary Hartman  
using an SHA authentication code.  
  
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