

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD AND METAL FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FOR ANCHORING INTO WOOD FRAMING, #12x2" WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS ON SHEET 6 OF 11.
6. FOR ANCHORING INTO CONCRETE USE 1/4"x2" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS ON SHEET 6 OF 11.
7. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS ON SHEET 6 OF 11.
8. ALL FASTENERS TO BE CORROSION RESISTANT.
9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF $G=0.55$
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. METAL STRUCTURE: STEEL 1/8" THK., 36KSI (Min.)
10. THIS APPROVAL IS FOR STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
11. THESE UNITS WERE NOT TESTED FOR WATER PENETRATION PER FBC. TAS 100(A). THEY CANNOT BE INSTALLED WITHIN RIDGE AREA (FBC 1523.6.5.2.13)

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-

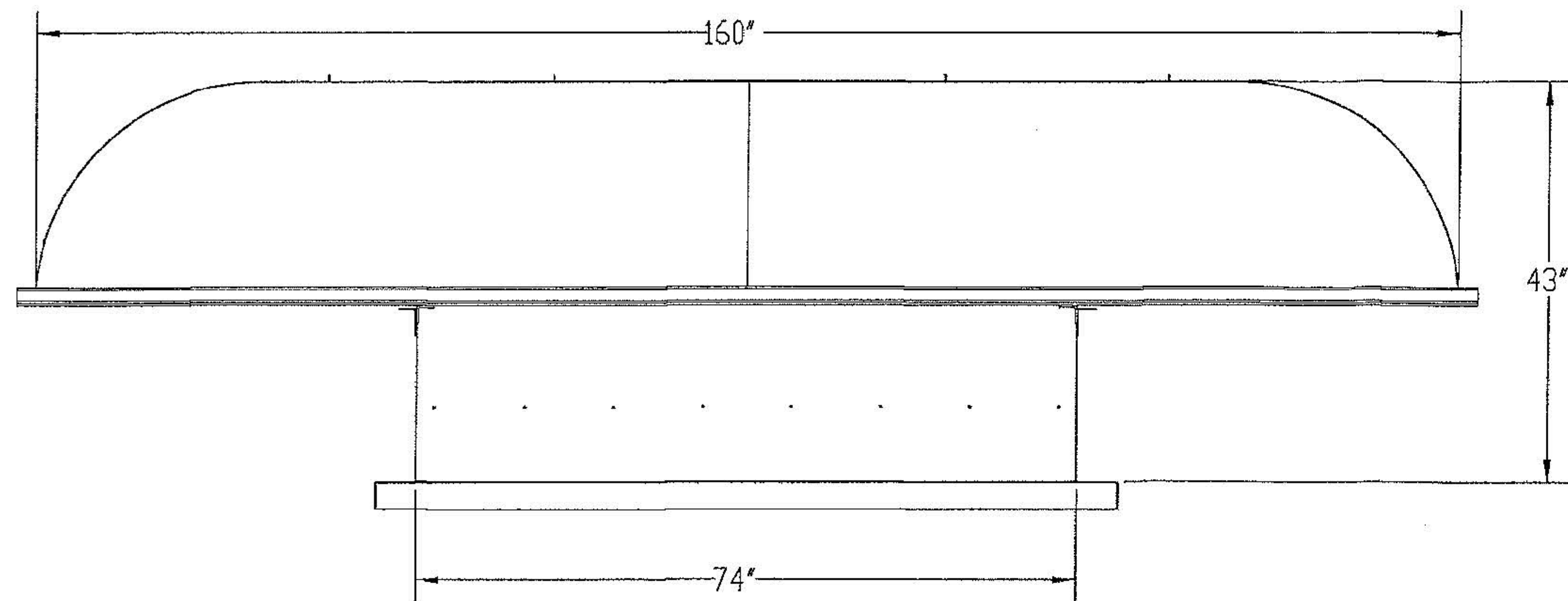
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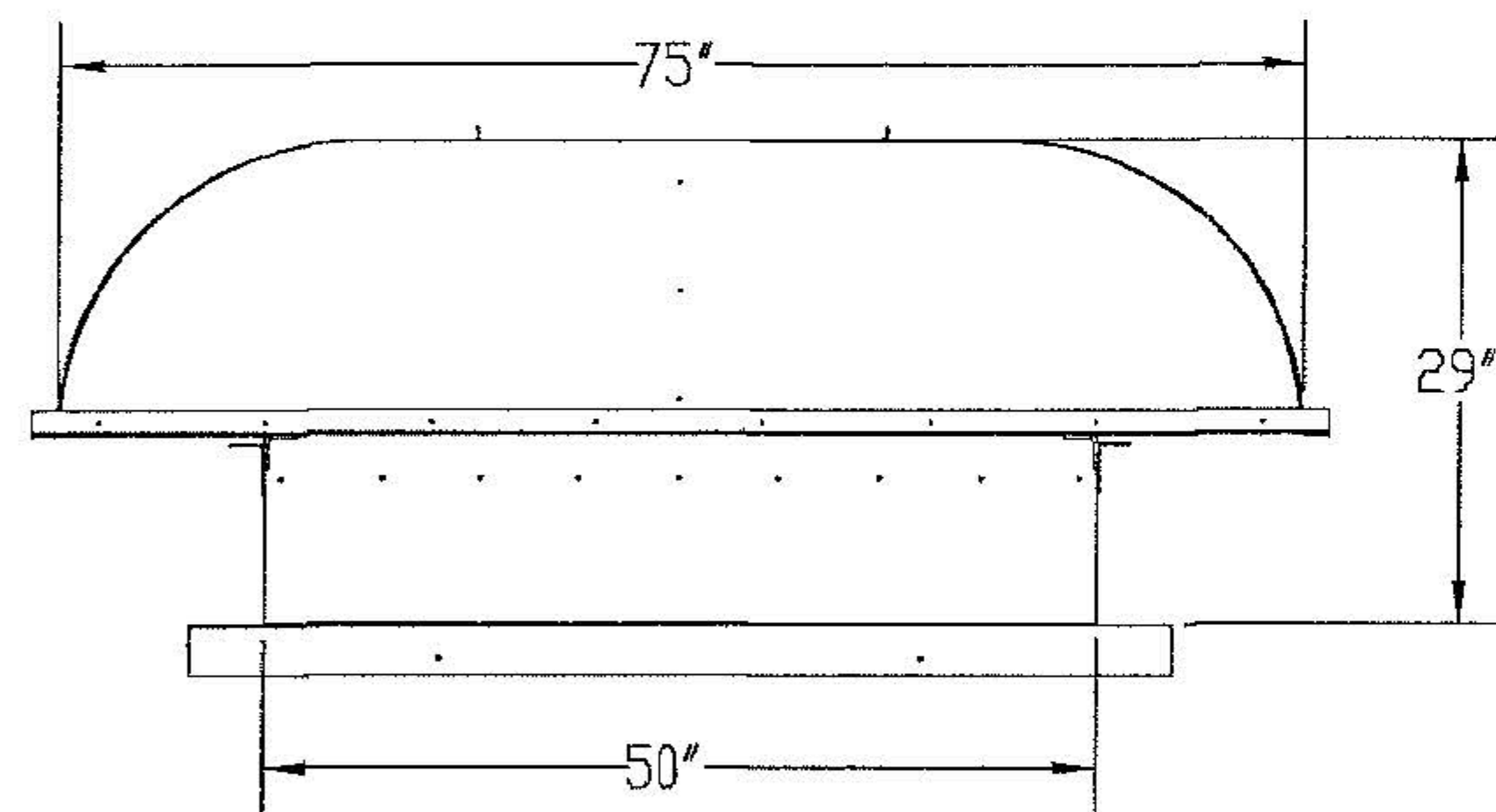
PennBarry 605 Shiloh RD Plano, TX 75074		
POWER AIRETTE EXHAUST AND SUPPLY HOODED PROPELLER ROOF VENTILATORS GENERAL NOTES		
DRAWN AMIT	DWG NO. 24555-0	REV
SCALE NTS	DATE 09/09/2016	SHEET 1 OF 11

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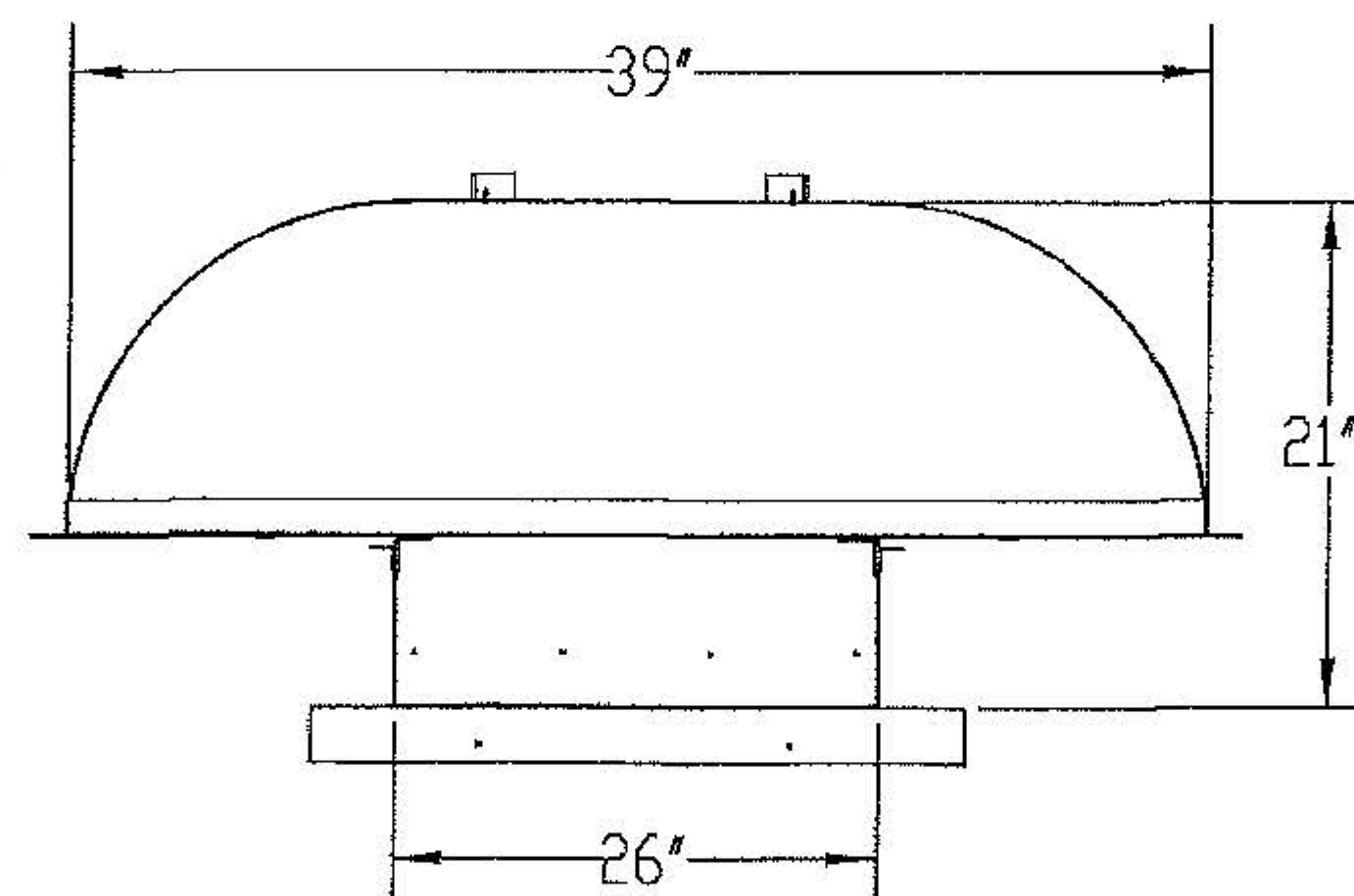
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SIZE 72 POWER AIRETTE EXHAUST ROOF VENTILATOR
EXTERIOR VIEW



SIZE 48 POWER AIRETTE EXHAUST ROOF VENTILATOR
EXTERIOR VIEW

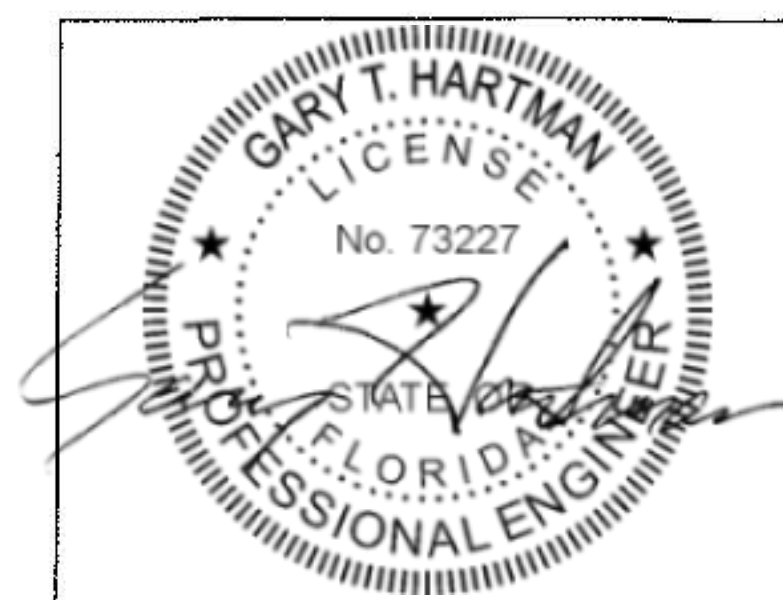


SIZE 24 POWER AIRETTE EXHAUST ROOF VENTILATOR
EXTERIOR VIEW

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-

APPROVED MODELS						
SIZES	HOOD SQ. SIZE (IN)		AIRSHAFT SQ. SIZE (IN)	HEIGHT (IN)	WEIGHT DIRECT DRIVE (LBS)	WEIGHT BELT DRIVE (LBS)
	SUPPLY	EXHAUST				
24	48	39	26	21	300	300
30	57	48	32	25	350	350
36	66	57	38	25	450	450
42	75	66	44	29	625	625
48	84	75	50	29	750	750
54	93	84	56	31	-	1000
60	101x128	93	62	33	-	1150
72	93x190	93x160	74	43	-	1350

DESIGN PRESSURE RATING	IMPACT RATING
± 70.0PSF	NONE



12/20/2021

PennBarry 605 Shiloh RD Plano, TX 75074

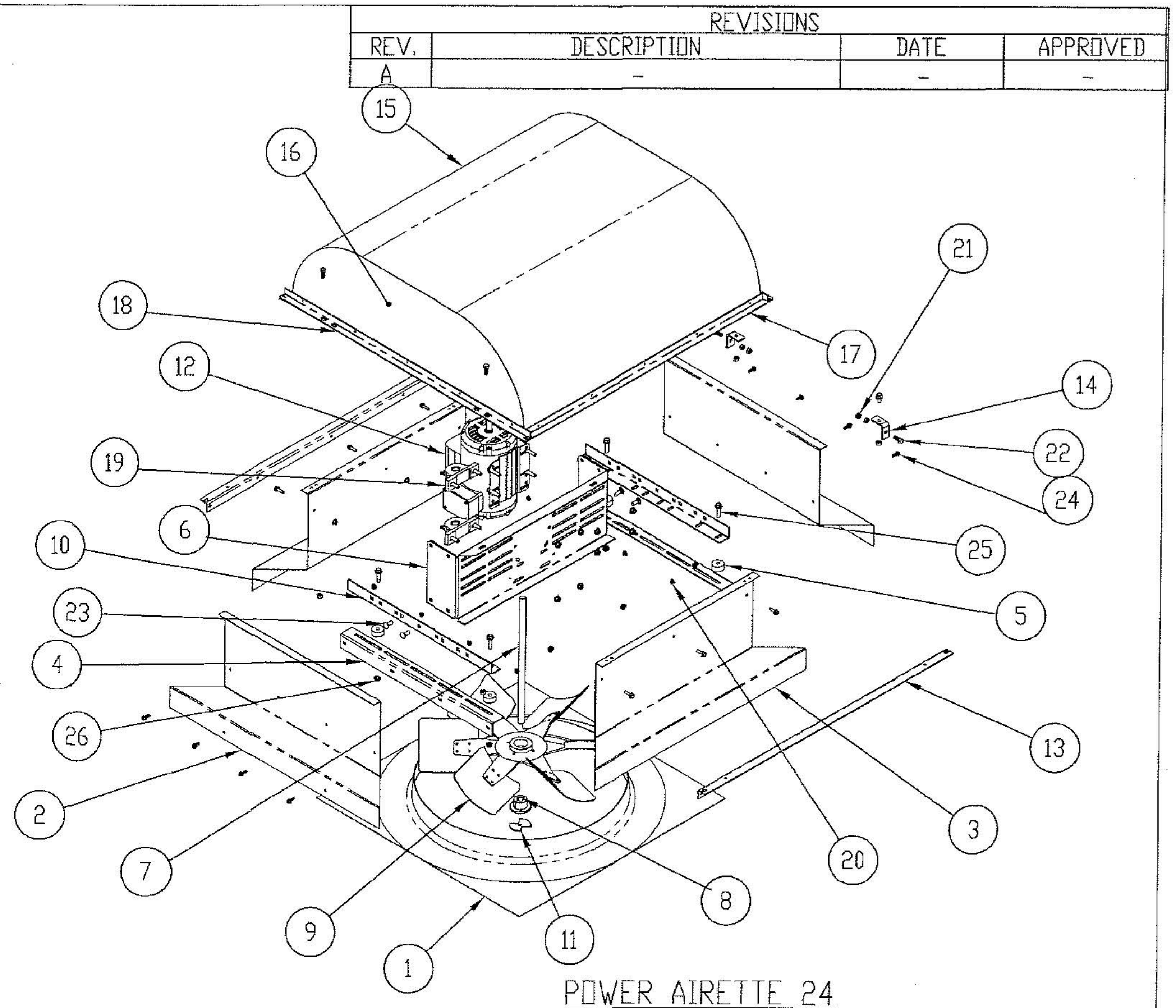
POWER AIRETTE EXHAUST AND SUPPLY
HOODED PROPELLER ROOF VENTILATORS
GENERAL NOTES

DRAWN AMIT	DWG NO. 24555-0	REV
SCALE NTS	DATE 09/09/2016	SHEET 2 OF 11

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ITEM NO.	PART NUMBER	DESCRIPTION	MANUFATURER	MAT.
1	08030-0	VENTURI AC/AR24 34SQ GALV	PENNBARRY	GALV.
2	08003	AE 24 AIRSHAFT 1	PENNBARRY	GALV.
3	08013	AE 24 AIRSHAFT 2	PENNBARRY	GALV.
4	08172-1	AE 24 A FRAME SUPPORT ANGLE	PENNBARRY	GALV.
5	18558-0	HS-HZ-AEP24 MOTOR&BRG PLT	PENNBARRY	GALV.
6	03378	SHAFT STL 0.75 18.00	PENNBARRY	STEEL
7	55002-0	BUSHING H-0.75	---	---
8	50242-0	PROP AE24	---	---
10	18560-0	HS-HZ-AEP24-36 MTR-BRG	---	---
11	12103	PROP LOCK PLATE(H)BUSHING	---	---
12	BALDOR 35LYE007_12.62	MOTOR	---	---
13	08011	HOOD SUPPORT ANGLE	PENNBARRY	GALV.
14	08090	PIVOT LUG (AE 24-30) HRS	---	---
15	08103	AE 24 HOOD TOP	PENNBARRY	GALV.
16	08133	AE 24 HOOD SIDE SNAPLOCK	PENNBARRY	GALV.
17	08146	AE 24 HOOD ANGLE ITEM A	PENNBARRY	GALV.
18	08147	AE 24 HOOD ANGLE ITEM B	PENNBARRY	GALV.
19	6494K13	BEARING, PILLOW BLOCK-0.75"	---	---
20	96282A101	WHIZ NUT .25-20	---	---
21	95462A515	HEX NUT 3/8-16	---	---
22	91309A624	HEX HD BOLT 3/8-16 X 1.0L	---	---
23	190021-N10	3/8-16 X 1.0L CARRAGE BOLT	---	---
24	190010-K8	WHIZ BOLT 1/4-20 X 1	---	---
25	190010-D15	WHIZ BOLT 3/8-16 X 1.5L	---	---
26	190013-D	NUT WHIZ 3/8-16 FLANGE	---	---

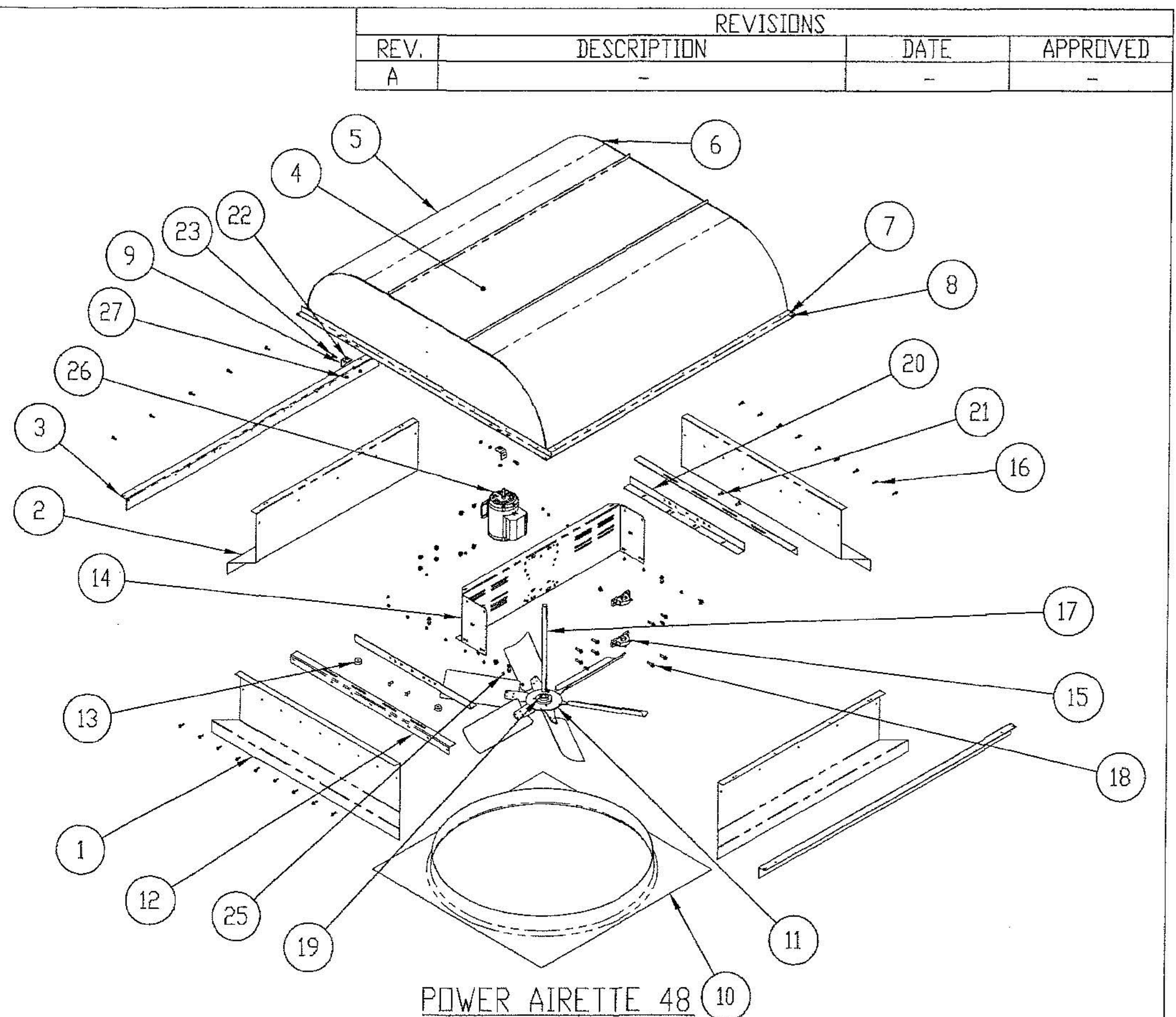


12/20/2021	PennBarry 605 Shiloh RD Plano, TX 75074		
	POWER AIRETTE EXHAUST AND SUPPLY HOODED PROPELLER ROOF VENTILIATORS BILL OF MATERIAL		
	DRAWN AMIT	DWG NO. 24555-0	REV
	SCALE NTS	DATE 09/09/2016	SHEET 3 OF 11

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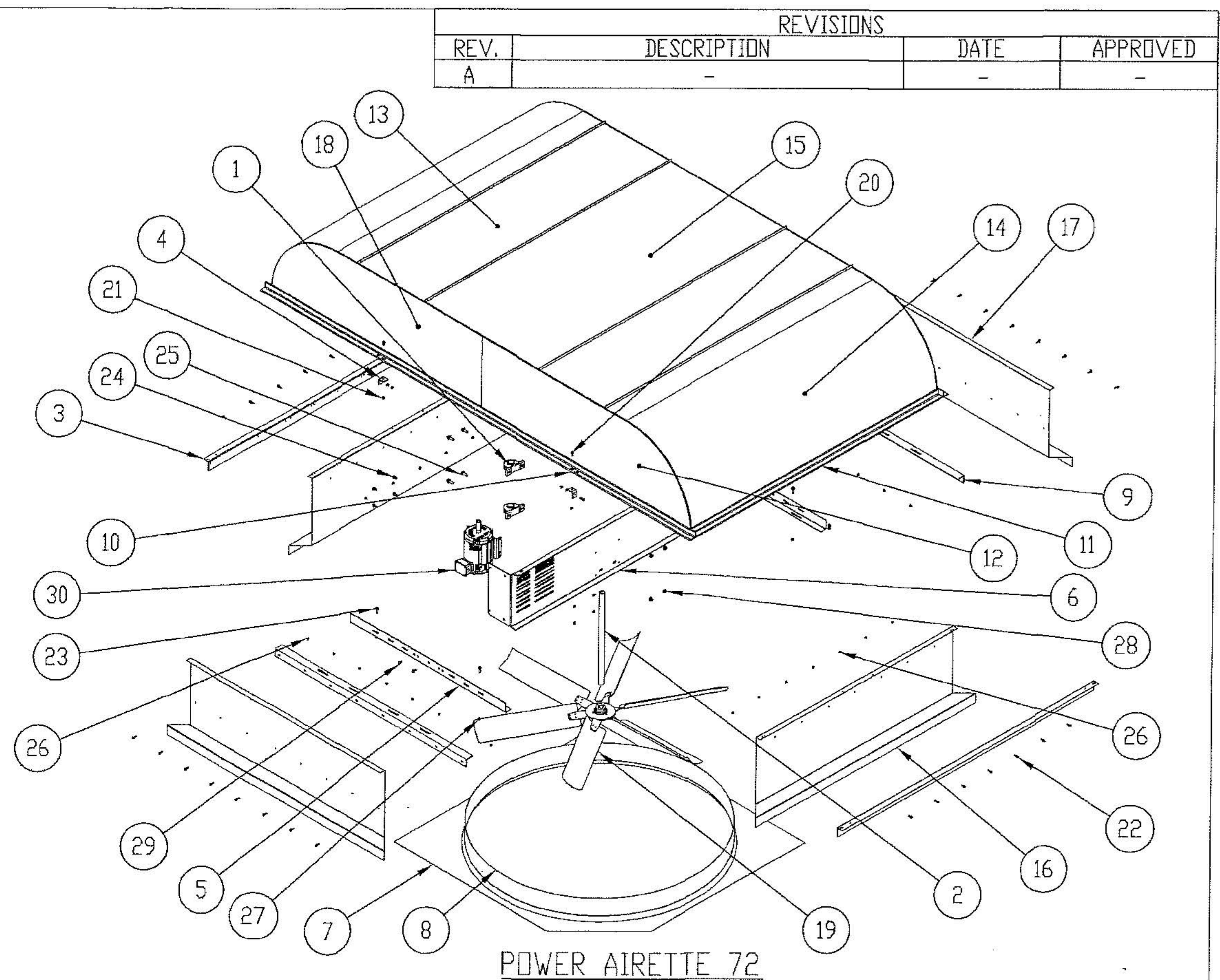
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ITEM NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	08007-0	AE48 AIRSHAFT ITEM 1	PENNBARRY	GALV.
2	08017-0	AE48 AIRSHAFT ITEM2	PENNBARRY	GALV.
3	08047-0	AE48 HOOD SUPPORT ANGLE	PENNBARRY	GALV.
4	08111-1	AE48 HOOD TOP TYPE A	PENNBARRY	GALV.
5	08110-0	AE48 HOOD TOP END	PENNBARRY	GALV.
6	08137-1	AE48 HOOD SIDE	PENNBARRY	GALV.
7	08154-3	AE48 HOOD ANGLE ITEM A	PENNBARRY	GALV.
8	08155-3	AE48 HOOD ANGLE ITEM B	PENNBARRY	GALV.
9	08074-0	AE36-72 PIVOT LUG	PENNBARRY	GALV.
10	08034-0	AE48 VENTURI	PENNBARRY	GALV.
11	50246-0	AE48 PROP	--	--
12	08293-0	AE48 A-FRAME SUPPORT ANGLE	PENNBARRY	GALV.
13	63010-0	ISD VIB VI66 1.5DIA	PENNBARRY	GALV.
14	18591-0	AE48 MOTOR & BRG PLATE	PENNBARRY	GALV.
15	57090-0	BEARING 1.00 P2B	PENNBARRY	GALV.
16	190010-K8	WHIZ BOLT 1/4-20 X 1	--	--
17	03332-0	SHAFT STL 1.00 X 23.00	PENNBARRY	STEEL
18	190010-D15	WHIZ BOLT 3/8-16 X 1.5L	--	--
19	55012-0	BUSHING P1-1.00	--	--
20	18653-0	AE48 MTR&BRG PLT SUPPORT ANGLE	PENNBARRY	GALV.
21	190021-N10	3/8-16 X 1.0L CARRAGE BOLT	--	--
22	190010-P8	WHIZ BOLT 3/8-16 X .75L	--	--
23	91309A624	HEX HD BOLT 3/8-16 X 1.0L	--	--
24	95462A515	HEX NUT 3/8-16	--	--
25	190013-K	WHIZ NUT 1/4-20	--	--
26	35LYM497	MOTOR	--	--
27	190013-D	NUT WHIZ 3/8-16 FLANGE	--	--



 12/20/2021	PennBarry 605 Shiloh RD Plano, TX 75074			This item has been electronically signed and sealed by Gary Hartman using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic
	POWER AIRETTE EXHAUST AND SUPPLY HOODED PROPELLER ROOF VENTILATORS COMPONENTS AND DETAILS			
	DRAWN	DWG NO.	REV	
	AMIT	24555-0		
SCALE	DATE	SHEET		
NTS	09/09/2016	4 OF 11		

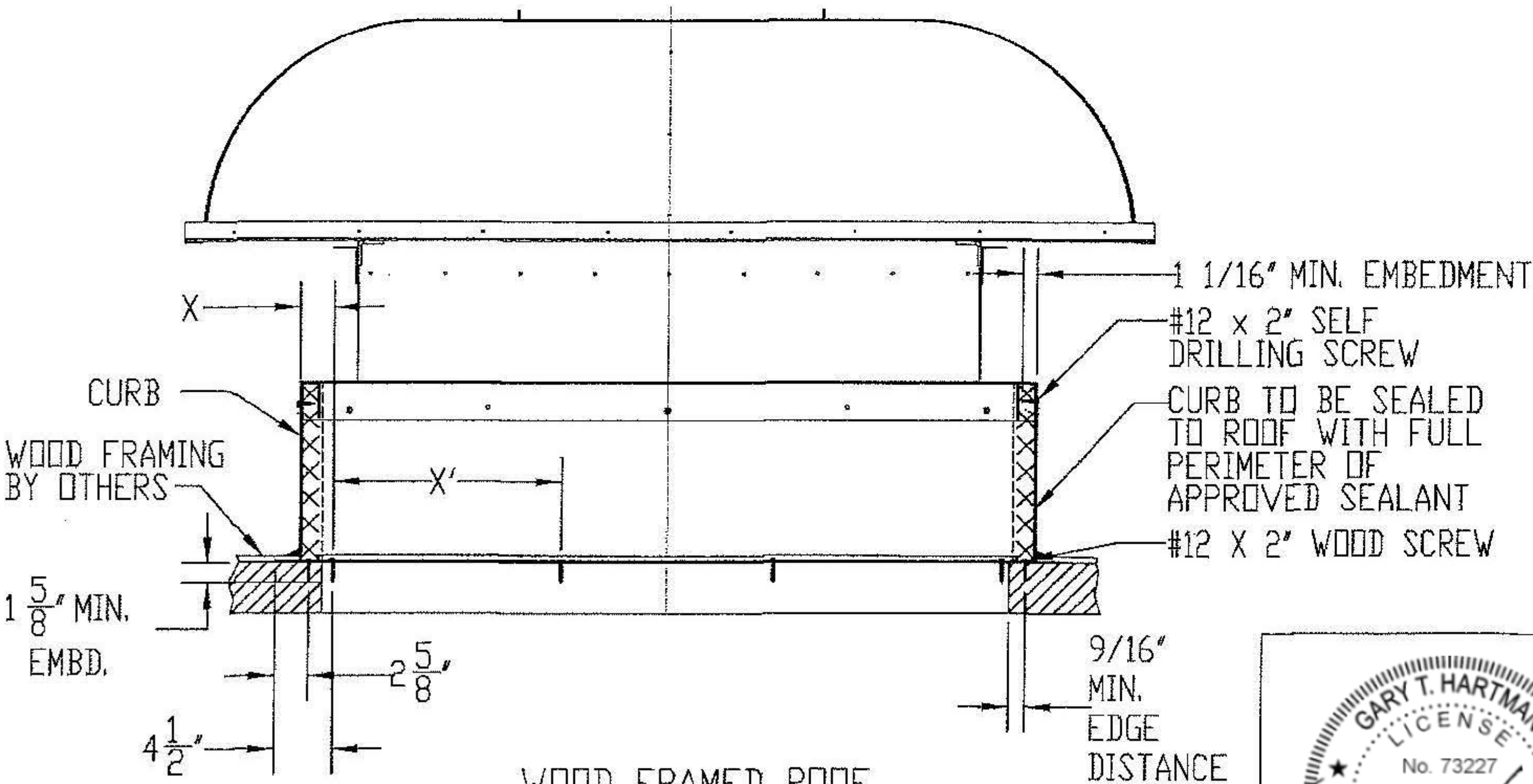
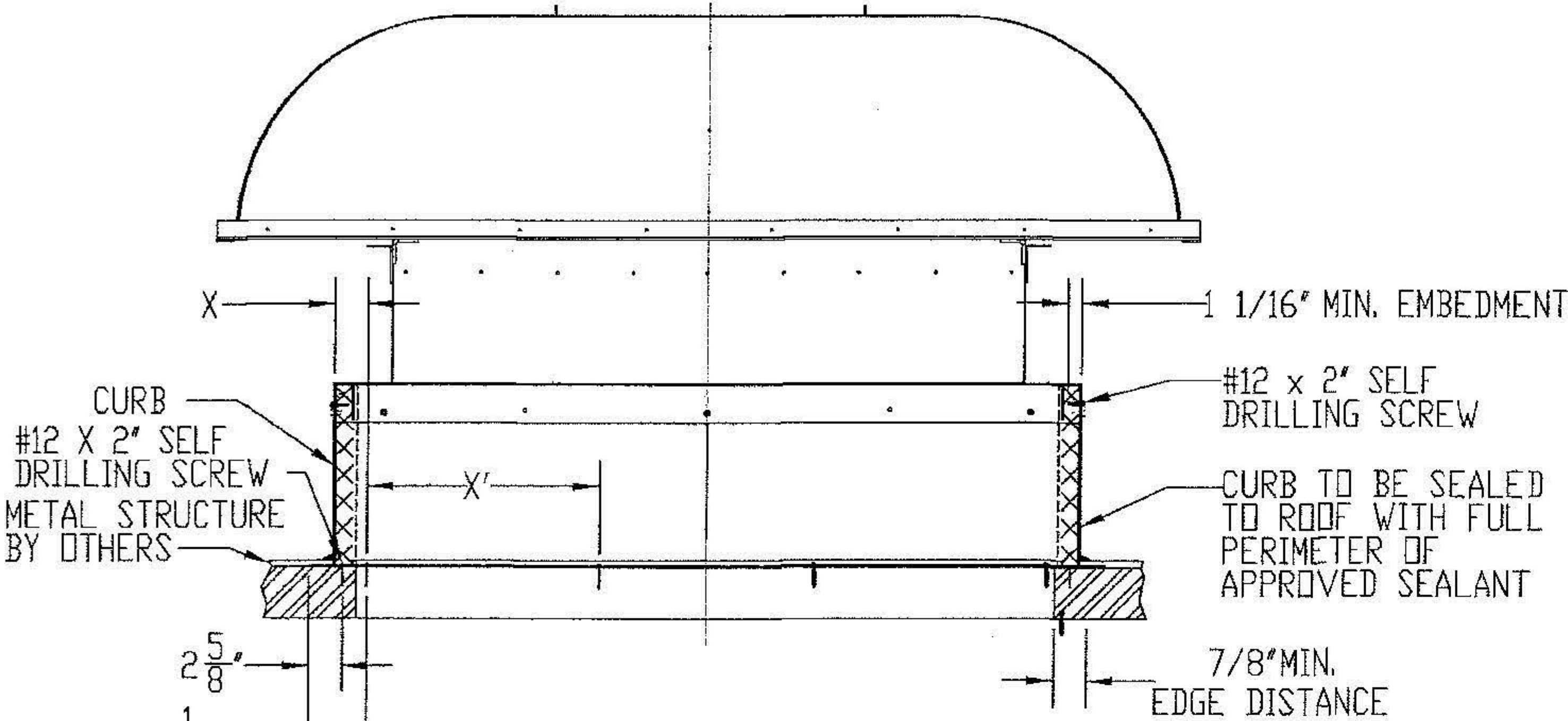
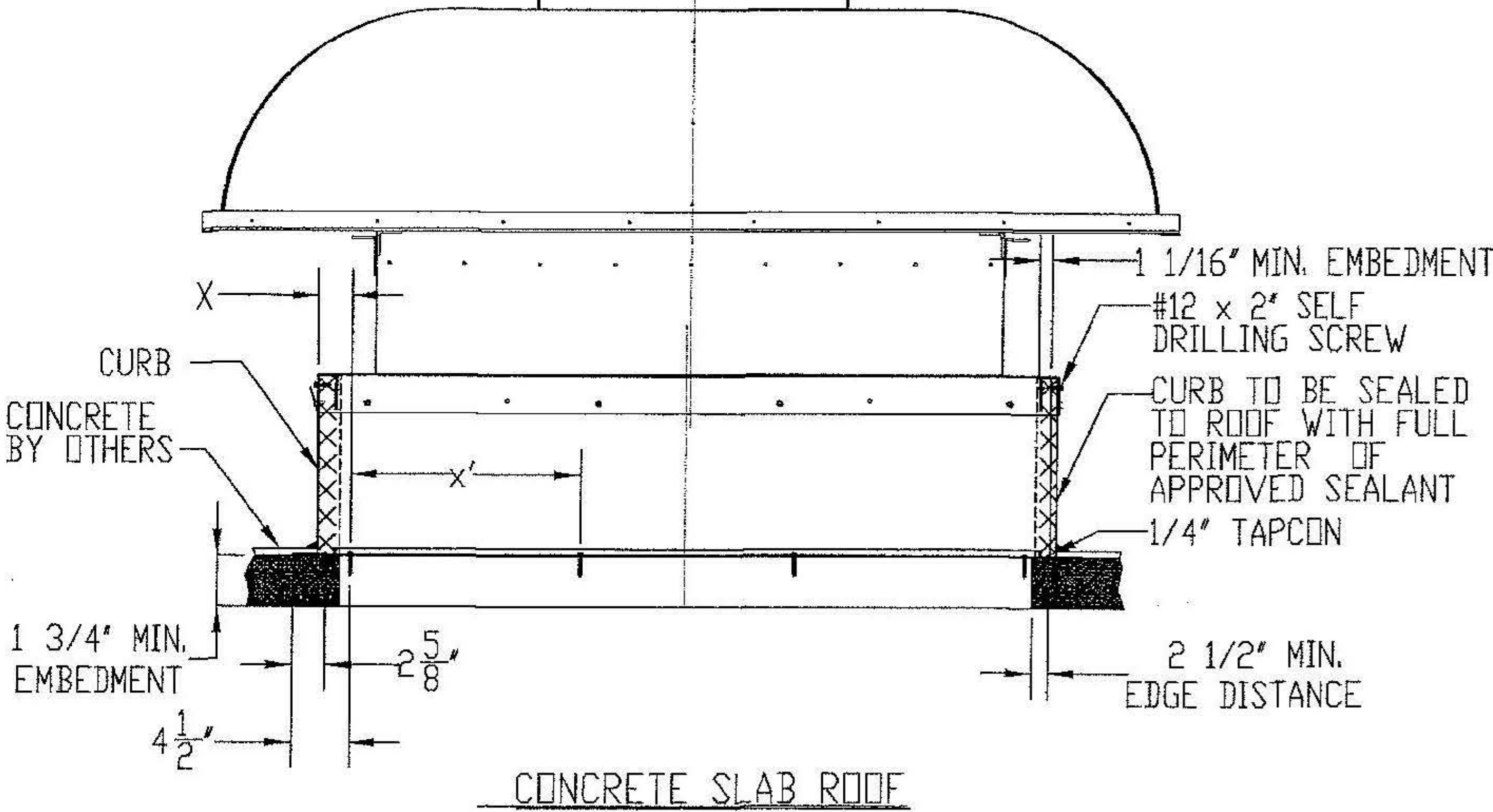
ITEM NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	2722T38	BEARING	PENNBARRY	GALV.
2	03375	SHAFT 1-7/16 X 30 TYPE2	PENNBARRY	STEEL
3	08049	AE 60 HOOD SUPP ANGLE	PENNBARRY	GALV.
4	08074-0	SUPPORT BRACKET	PENNBARRY	GALV.
5	18663-0	HS HZ AEP60 MTR&BRG PLT S	--	--
6	18669-0-2	AC72 MOTOR & BEARING PLAT	PENNBARRY	GALV.
7	19166-0	AE72 VENTURI PLATE	PENNBARRY	GALV.
8	19167-0	AE72 VENTURI COLLAR	PENNBARRY	GALV.
9	19168-0	AE72 A-Frame Angle	PENNBARRY	GALV.
10	19171	AE72 EXHAUST HOOD ANGLE	PENNBARRY	GALV.
11	19172	AE72 HOOD ANGLE SHORT	PENNBARRY	GALV.
12	19173	AE72 HOOD SIDES LEFT EXH	PENNBARRY	GALV.
13	19174	AE72 HOOD TOP TYPE A EXH	PENNBARRY	GALV.
14	19175	AE72 HOOD TOP END	PENNBARRY	GALV.
15	19176	AE72 HOOD TOP TYPE A	PENNBARRY	GALV.
16	19489	AC/AF72 AIRSHAFT ITEM 2	PENNBARRY	GALV.
17	19491	AC/AF72 AIRSHAFT ITEM 1	PENNBARRY	GALV.
18	19500	AE72 HOOD SIDE RIGHT EX	PENNBARRY	GALV.
19	50466-0	PROP AL 72 30B-6 BOS Q	--	CAST AL.
20	91309A624	HEX HD BOLT 3/8-16 X 1.0L	--	--
21	95462A515	HEX NUT 3/8-16	--	--
22	190010-K8	WHIZ BOLT 1/4-20 X 1	--	--
23	190010-D15	WHIZ BOLT 3/8-16 X 1.5L	--	--
24	190010-P8	WHIZ BOLT 3/8-16 X .75L	--	--
25	190010-S15	WHIZ BOLT 1/2-20 X 1.0L	--	--
26	190013-K	WHIZ NUT 1/4-20	--	--
27	190013-D	NUT WHIZ 3/8-16 FLANGE	--	--
28	190013-S	WHIZ NUT 1/2-20	--	--
29	190021-N10	3/8-16 X 1.0L CARRAGE BOLT	--	--
30	MOTOR	182T MOTOR	--	--



 12/20/2021		PennBarry 605 Shiloh RD Plano, TX 75074		This item has been electronically signed and sealed by Gary Hartman using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic
		POWER AIRETTE EXHAUST AND SUPPLY HOODED PROPELLER ROOF VENTILATIONS COMPONENTS AND DETAILS		
DRAWN	AMIT	DWG NO.	24555-0	
SCALE	NTS	DATE	09/09/2016	
		SHEET	5 OF 11	

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	Increase fastener count for AC72	12/20/21	DH

Roof Curb to Roof Deck Anchors					
	# 12-2" (UNIT TO CURB)	X MAX	Metal Roof # of 12x2" S.D.S(# of fasteners- PER SIDE)	Wood Roof # of 12x2" Wood Screws (# of fasteners- PER SIDE)	Concrete Roof 1/4"x2" Tapcons(# of fasteners- PER SIDE)
AC24	16	2	20 (5 per SIDE)	20 (5 per SIDE)	20 (5 per SIDE)
AC30	16	3	24 (6 per SIDE)	24 (6 per SIDE)	24 (6 per SIDE)
AC36	16	3	28 (7 per SIDE)	28 (7 per SIDE)	28 (7 per SIDE)
AC42	16	3	28 (7 per SIDE)	28 (7 per SIDE)	28 (7 per SIDE)
AC48	16	3	32 (8 per SIDE)	32 (8 per SIDE)	32 (8 per SIDE)
AC54	20	3	36 (9 per SIDE)	36 (9 per SIDE)	36 (9 per SIDE)
AC60	20	3	36 (9 per SIDE)	36 (9 per SIDE)	36 (9 per SIDE)
AC72	32	3	52 (13 per SIDE)	64 (16 per SIDE)	48 (12 per SIDE)



- NOTES:
1. ALL FOUR SIDES OF CURB AND BASE ARE ANCHORED IDENTICALLY.
 2. ROOF CURB IS INSTALLED TO ROOF FIRST. ONCE CURB IS INSTALLED FAN IS ATTACHED TO CURB USING #12x2" SELF DRILLING SCREWS AS SHOWN ABOVE.
 3. SEE SHEET 8 OF 11, COMPONENTS FOR ROOF CURB CONSTRUCTION.
 4. UNITS MAYBE INSTALLED WITH, ALUMINUM 3003-H14 CURB OR GALVANIZED STEEL CURB.



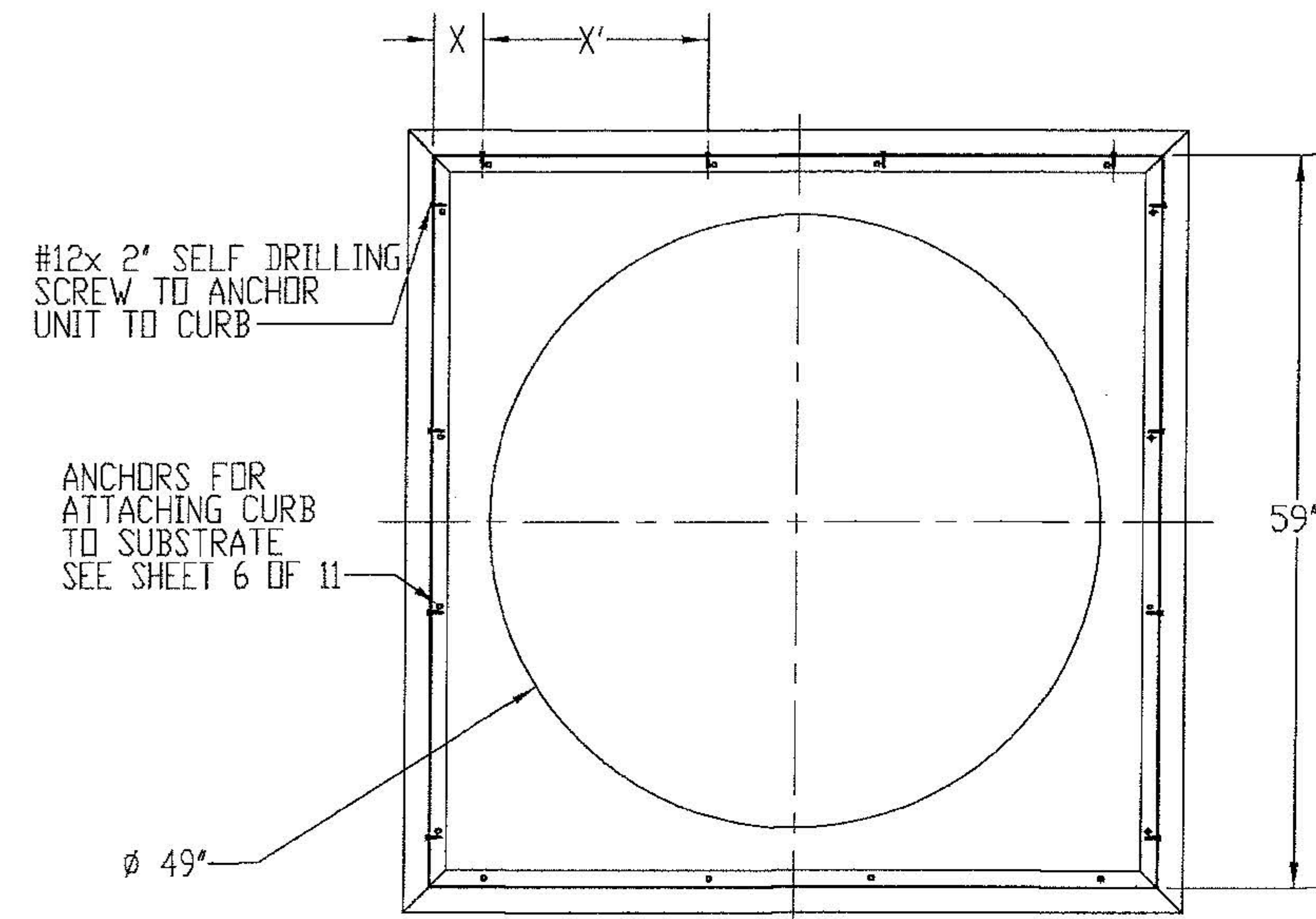
PennBarry 605 Shiloh RD Plano, TX 75074

POWER AIRETTE EXHAUST AND SUPPLY
HOODED PROPELLER ROOF VENTILATORS
INSTALLATION DETAILS

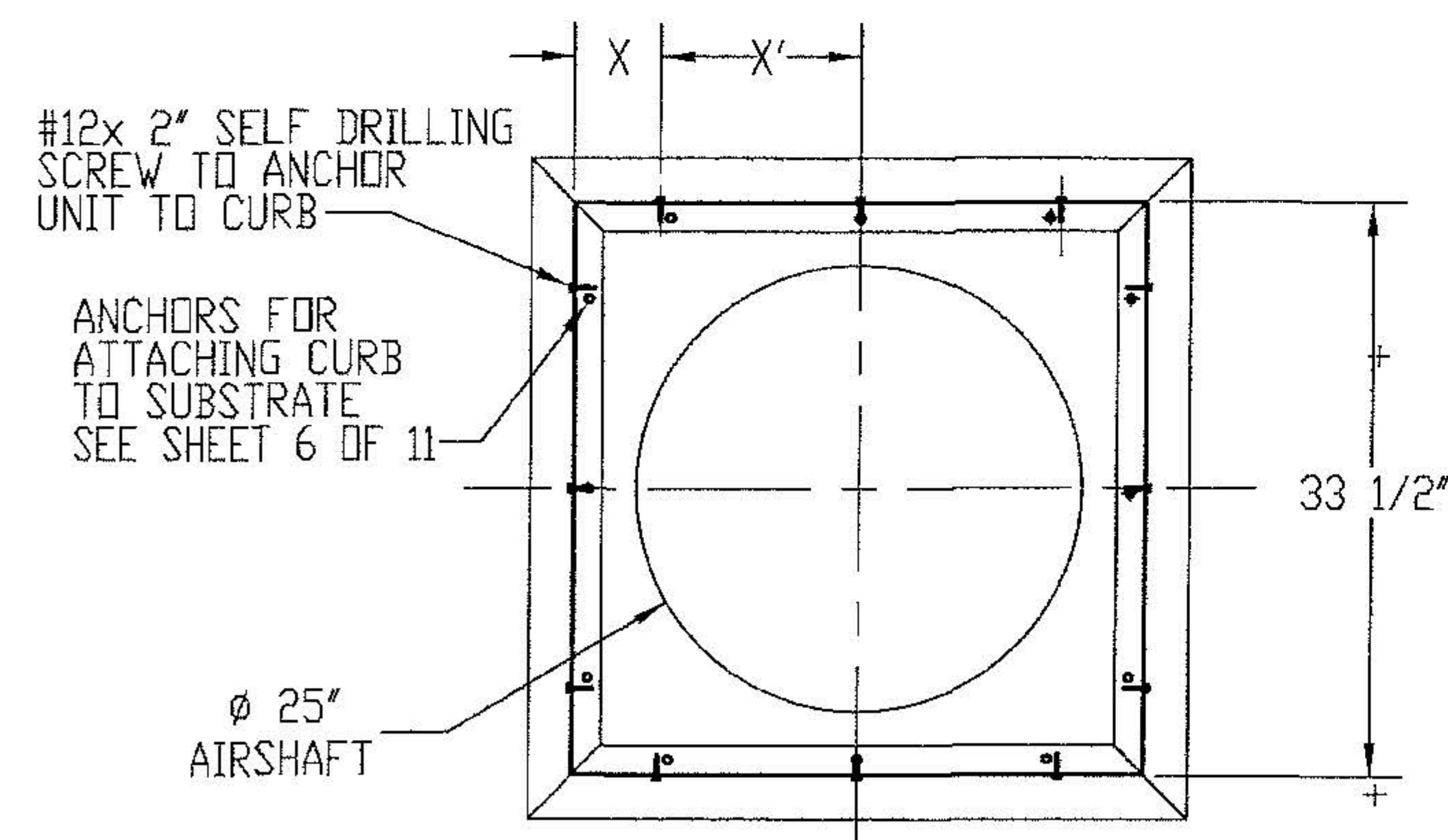
DRAWN	AMIT	DWG NO.	24555-0	REV	
SCALE	NTS	DATE	09/09/2016	SHEET	6 OF 11

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AC48 PLAN VIEW INSTALLATION DETAILS
HOOD & INTERIOR COMPONENTS ARE NOT SHOWN FOR CLARITY
(SEE PAGE 6 FOR FASTENER LOCATIONS)

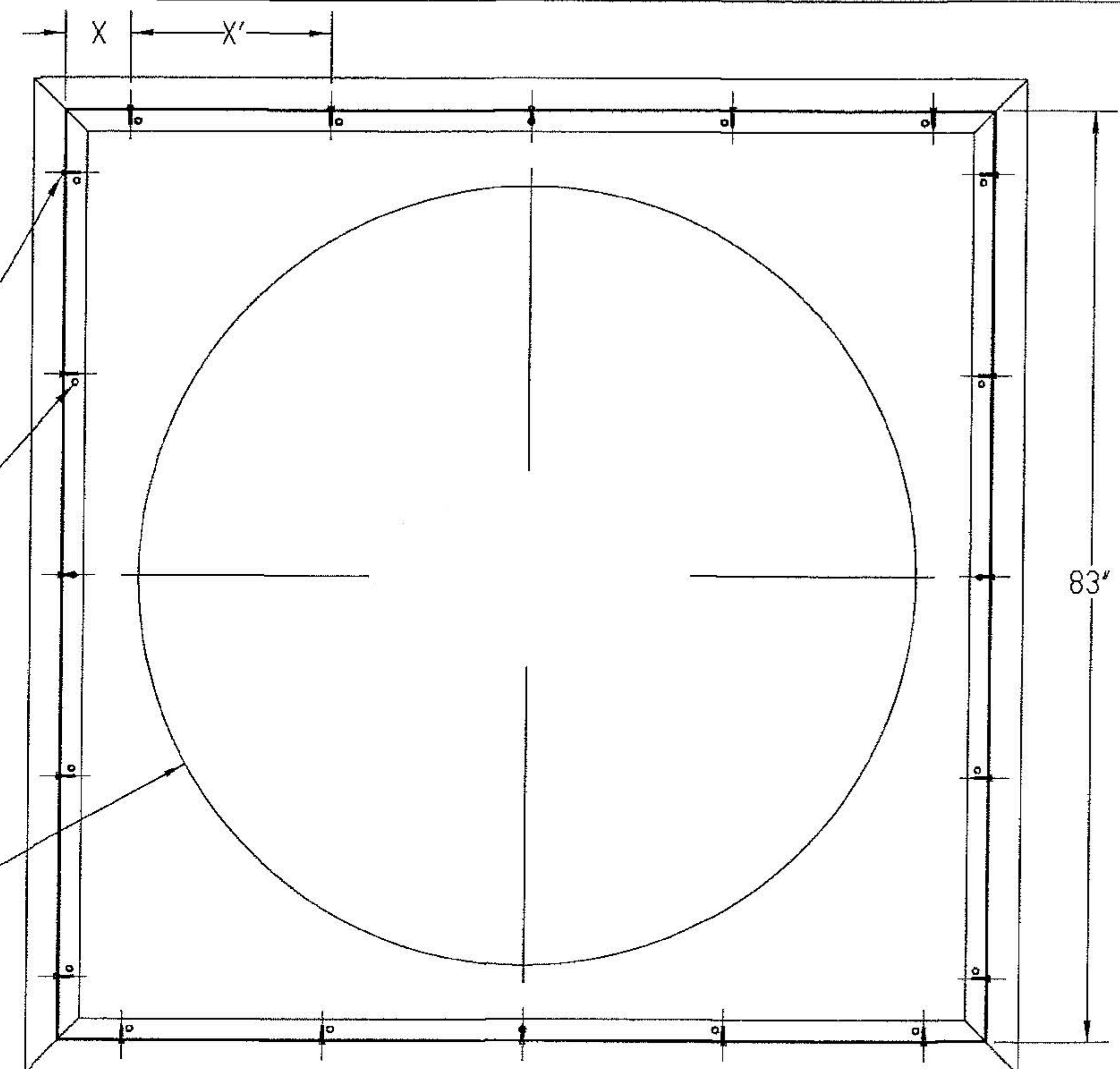


AC24 PLAN VIEW INSTALLATION DETAILS
HOOD & INTERIOR COMPONENTS ARE NOT SHOWN FOR CLARITY
(SEE PAGE 6 FOR FASTENER LOCATIONS)

#12x 2" SELF DRILLING SCREW TO ANCHOR UNIT TO CURB

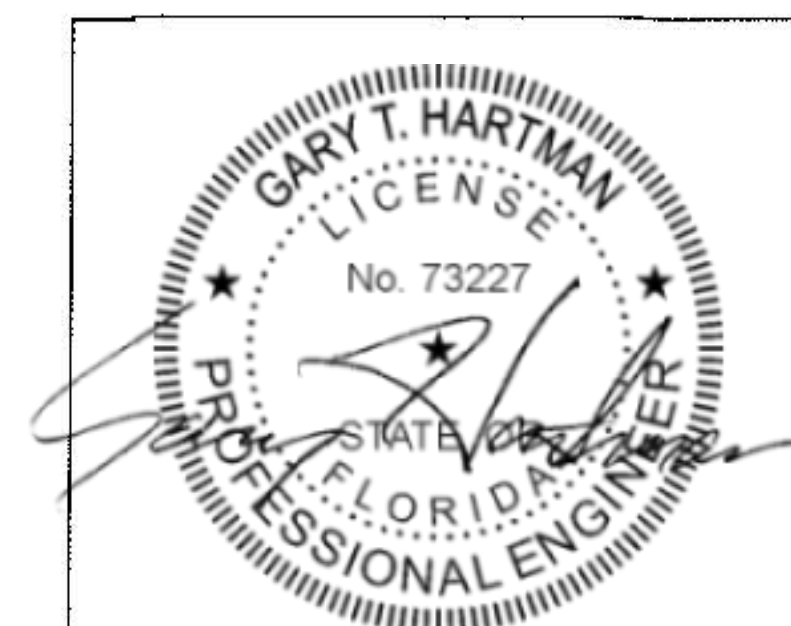
ANCHORS FOR ATTACHING CURB TO SUBSTRATE SEE SHEET 6 OF 11

Ø 72 3/4"



AC72 PLAN VIEW INSTALLATION DETAILS
HOOD & INTERIOR COMPONENTS ARE NOT SHOWN FOR CLARITY
(SEE PAGE 6 FOR FASTENER LOCATIONS)

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
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12/20/2021

PennBarry 605 Shiloh RD Plano, TX 75074

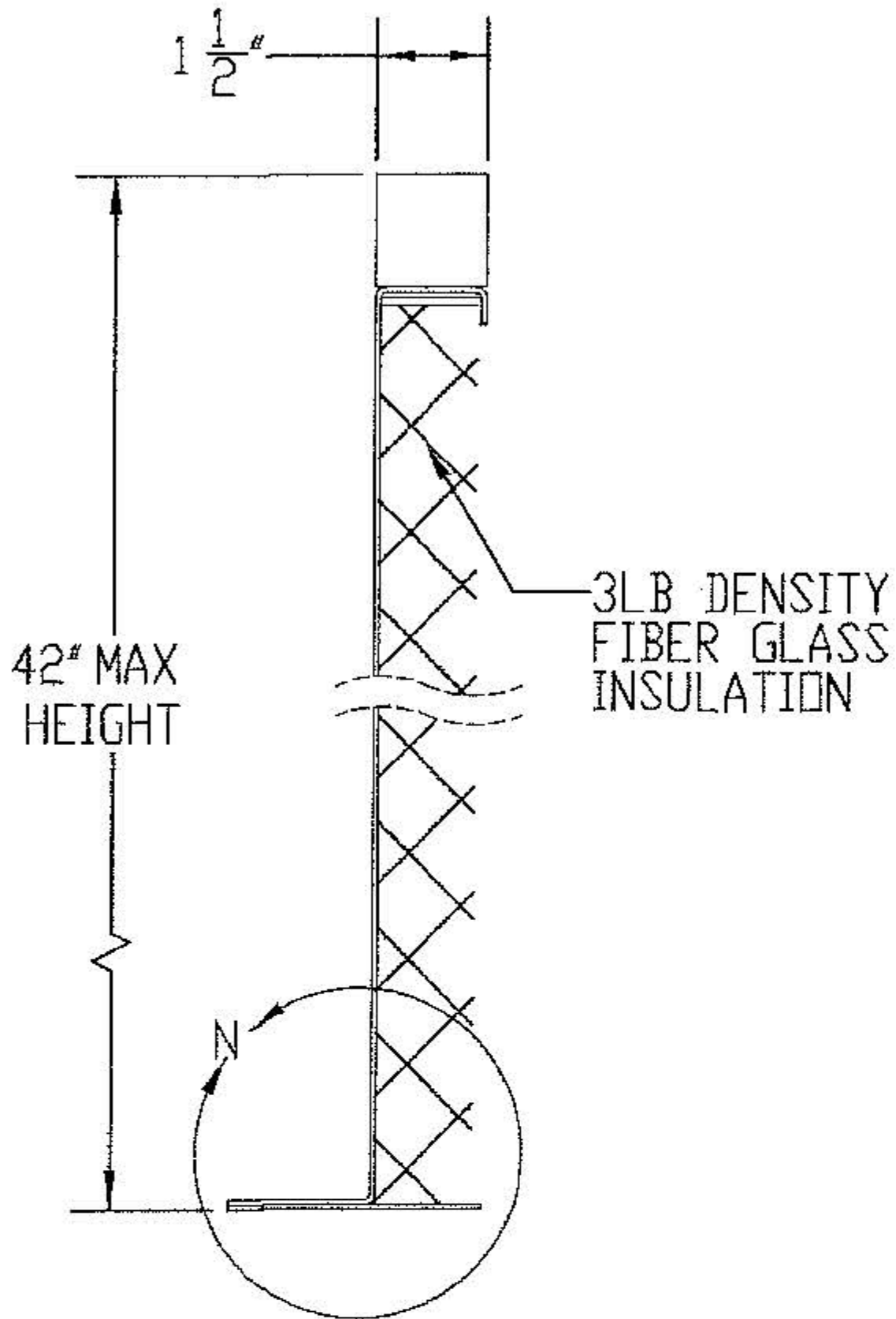
POWER AIRETTE EXHAUST AND SUPPLY
HOODED PROPELLER ROOF VENTILIATORS
COMPONENTS DETAILS

DRAWN	AMIT	DWG NO.	24555-0	REV
SCALE	NTS	DATE	09/09/2016	SHEET
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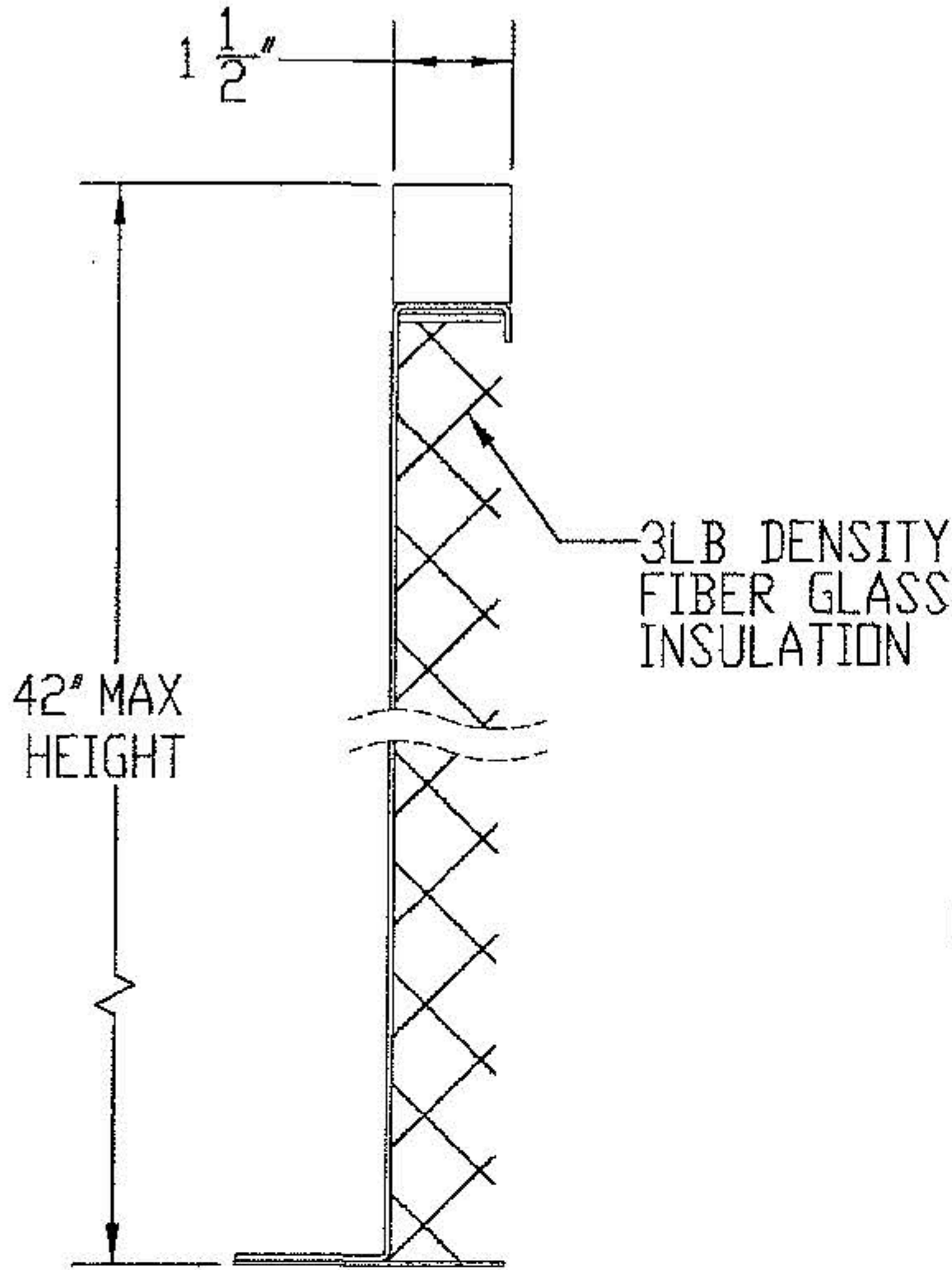
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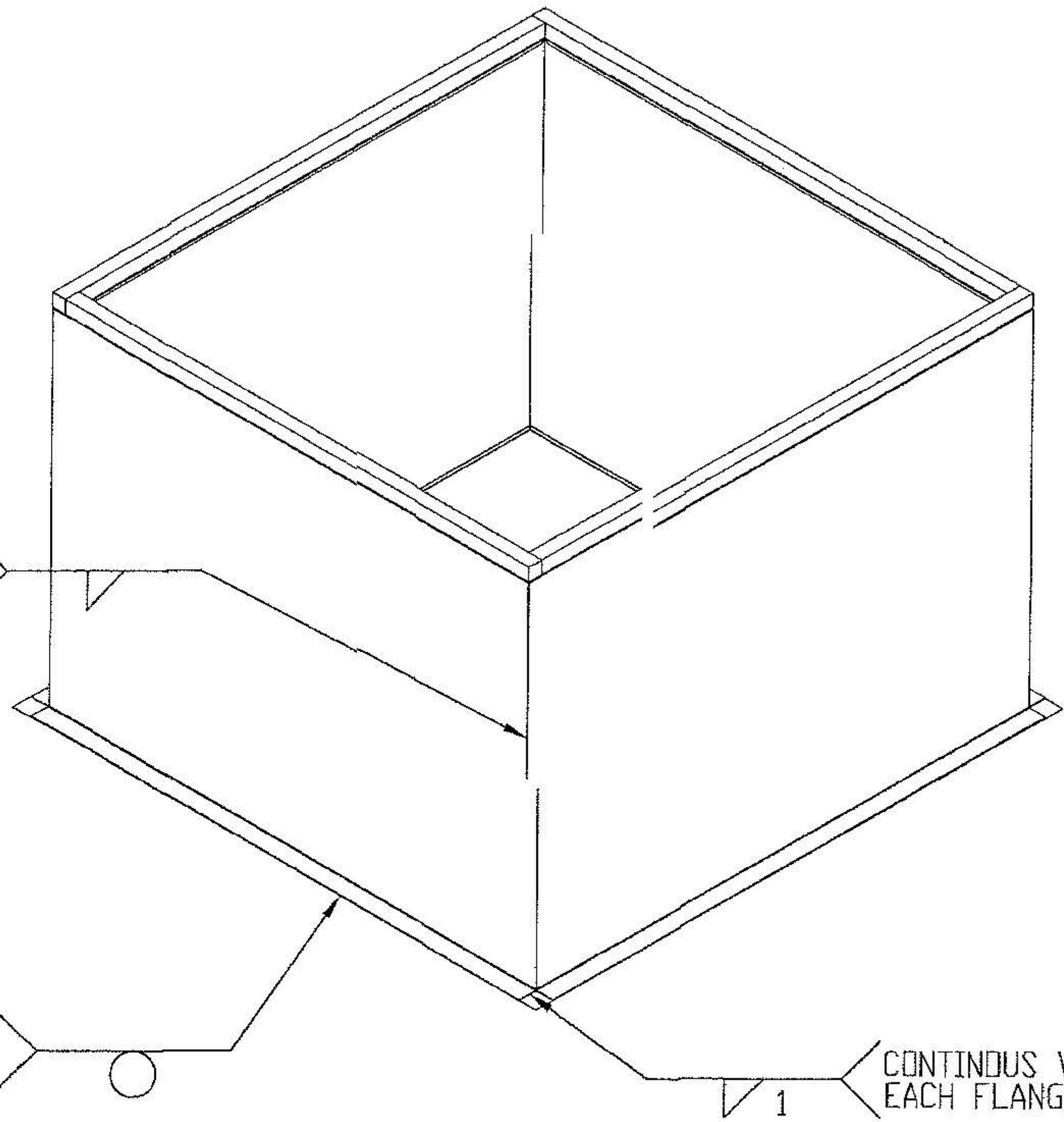
ROOF CURB
18GA G-90 GALV. STEEL
MI VALUE : X= 20.5405
Y=0.3060



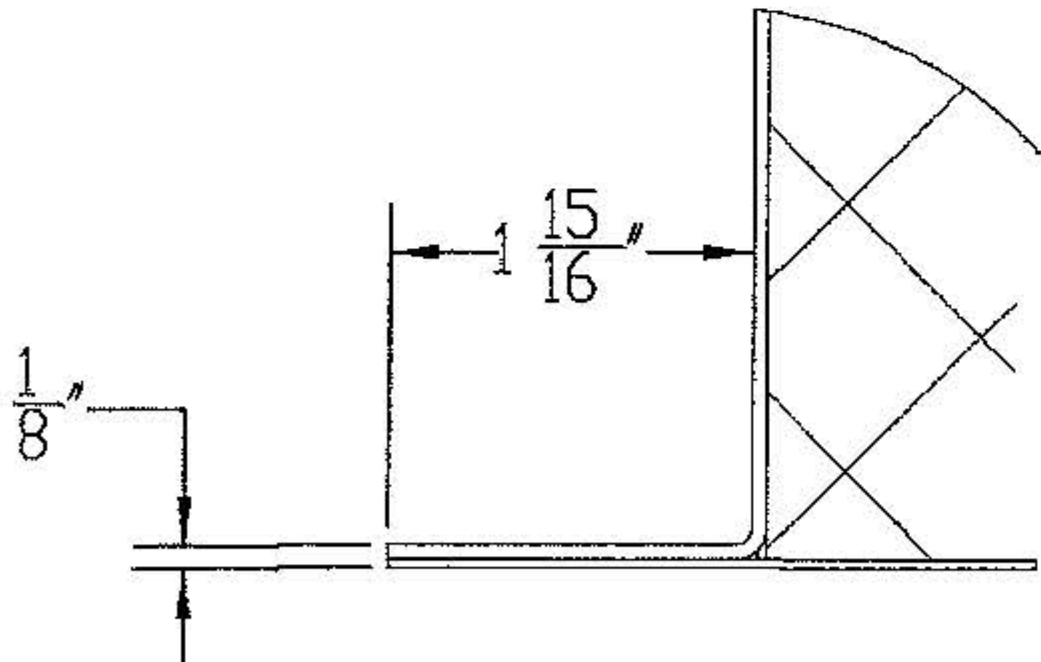
OPTIONAL ROOF CURB
ALUMINIUM 3003-H14 10GA, 0.125" THK.
MI VALUE : X= 51.1390
Y= 0.7384

CONTINUOUS
WELDED
CORNERS
TYP.

BASE PLATE TO
CURB FLANGE TYP.
6" SPACING



CONTINUOUS WELD FROM CORNER
EACH FLANGE 1" TYP



DETAIL N
SCALE 1 : 2

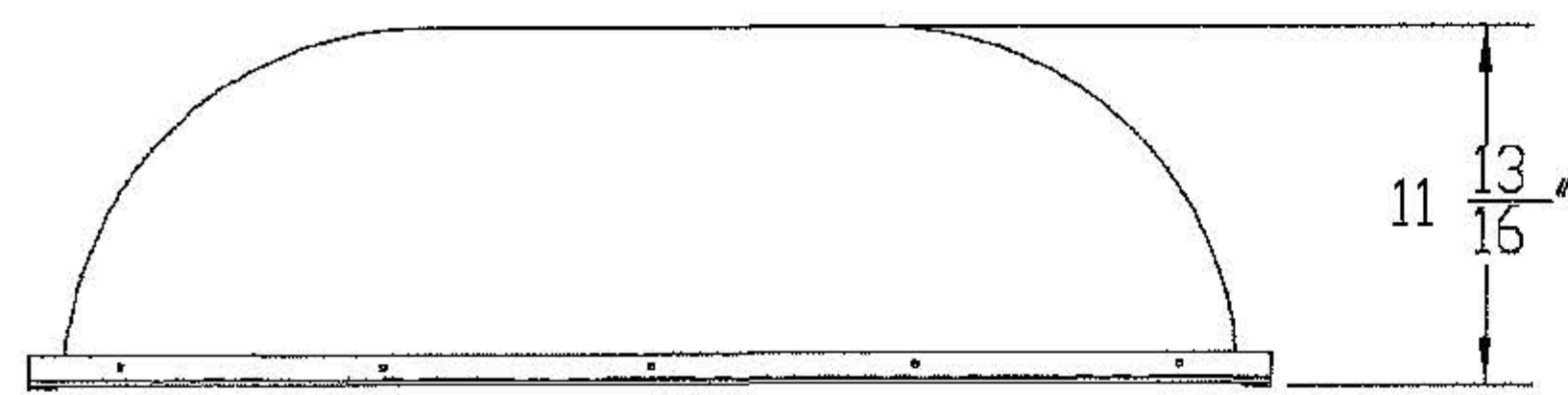


12/20/2021

PennBarry 605 Shiloh RD Plano, TX 75074			
POWER AIRETTE EXHAUST AND SUPPLY HOODED PROPELLER ROOF VENTILATORS INSTALLATION DETAILS			
DRAWN AMIT	DWG NO. 24555-0		REV
SCALE NTS	DATE 09/09/2016	SHEET 8 OF 11	

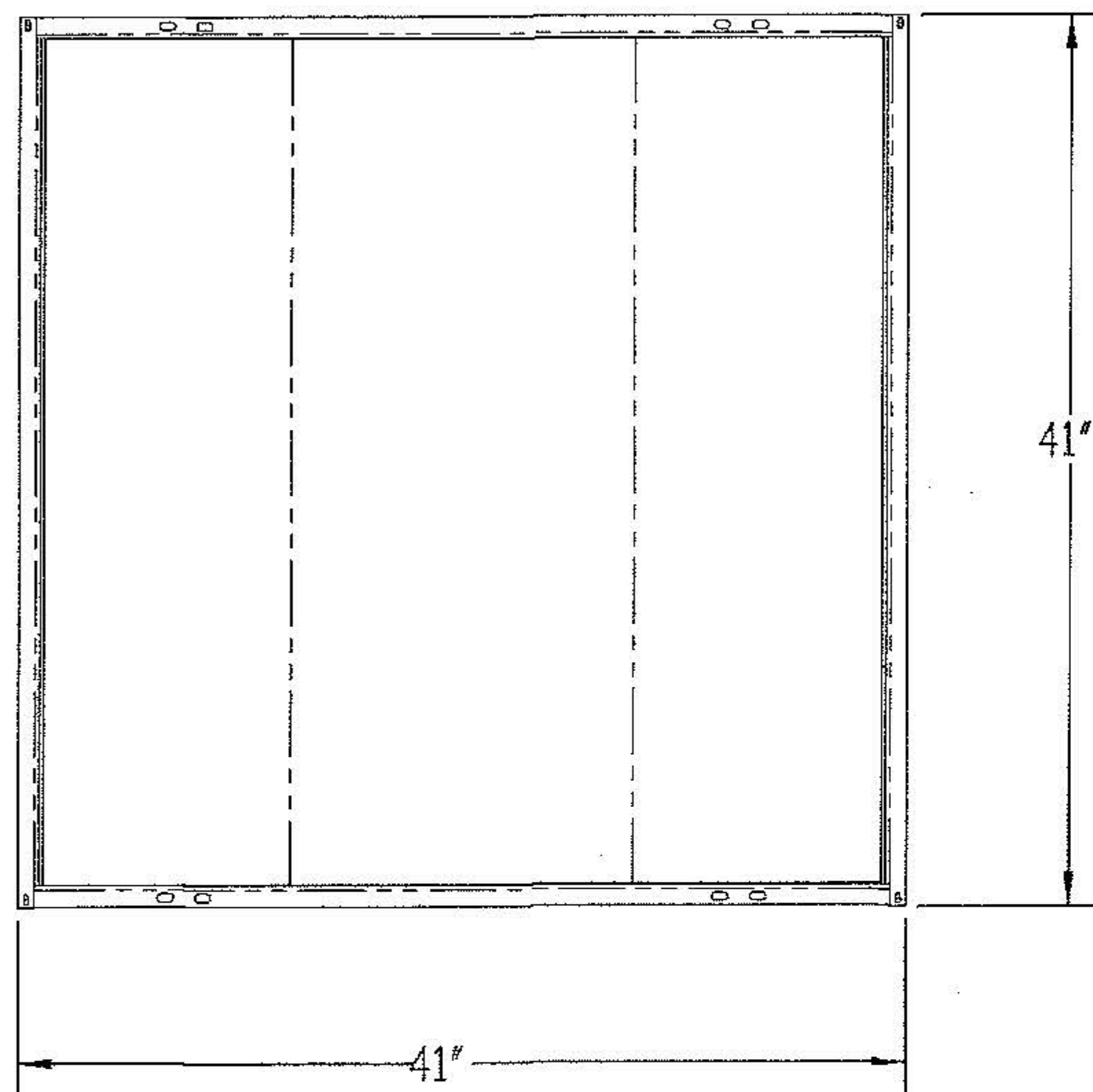
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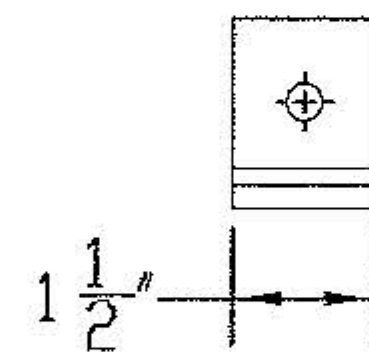


POWER AIRETTE 24

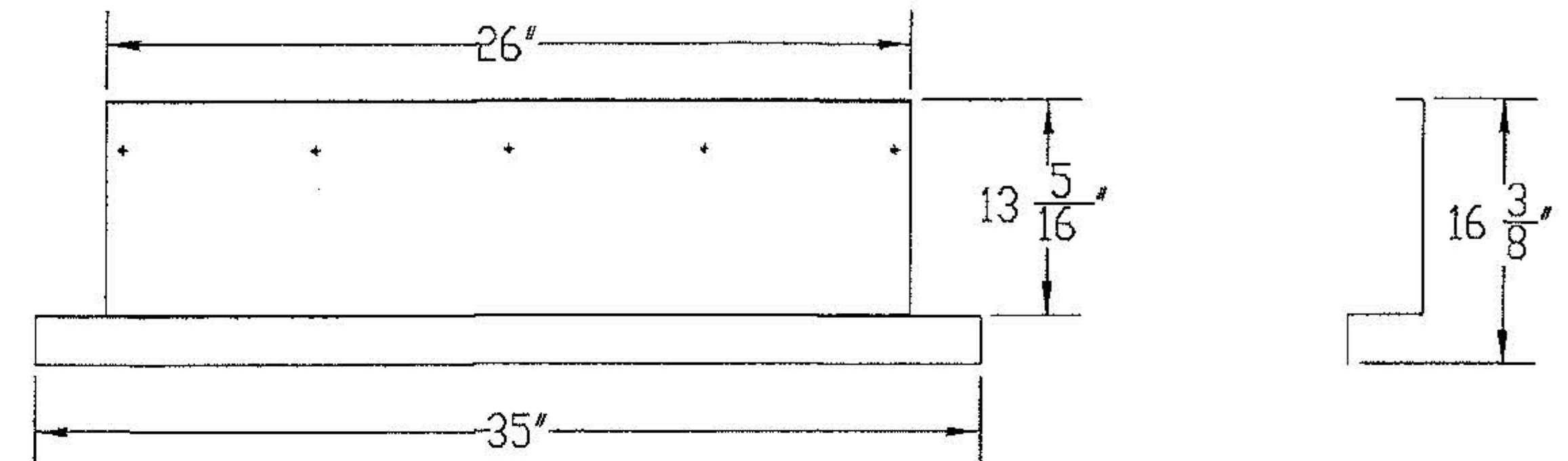
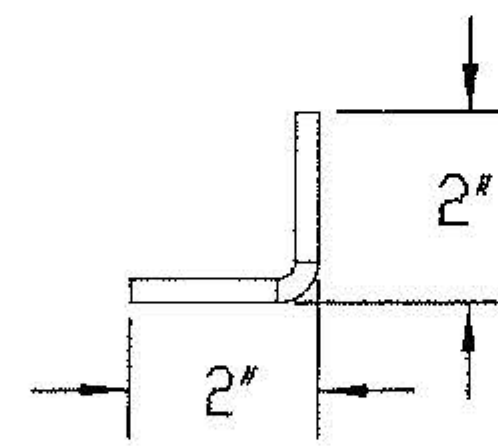
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REV.	DESCRIPTION	DATE	APPROVED
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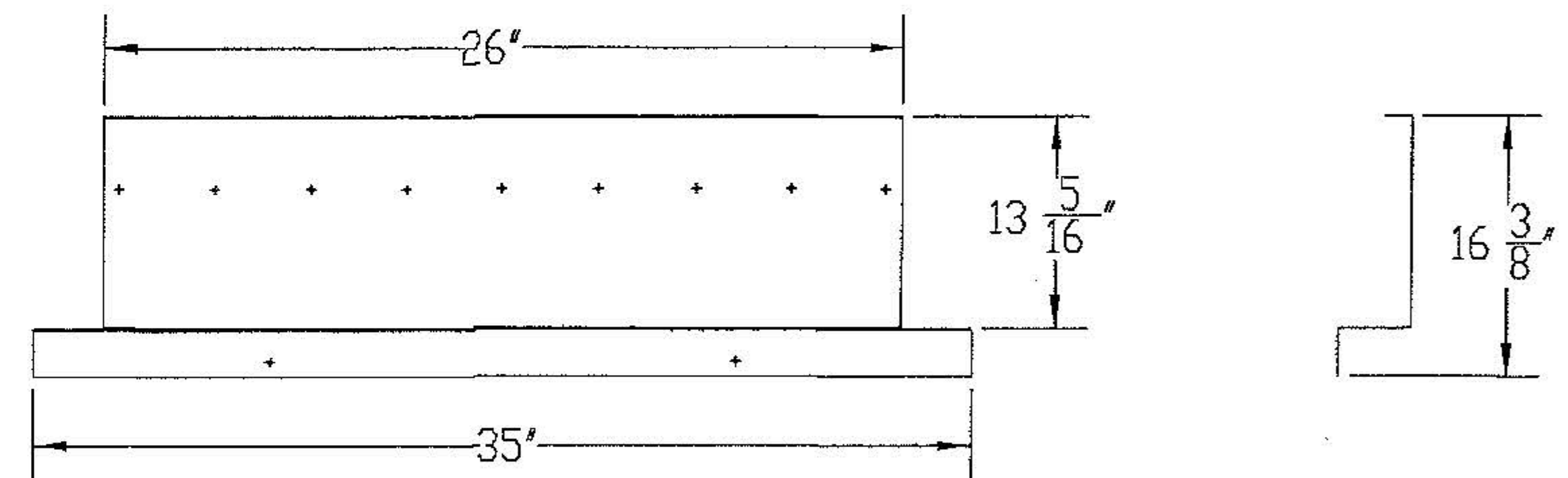
ACCESS HOOD ASSY.
10GA(0.13"), GALV. STEEL



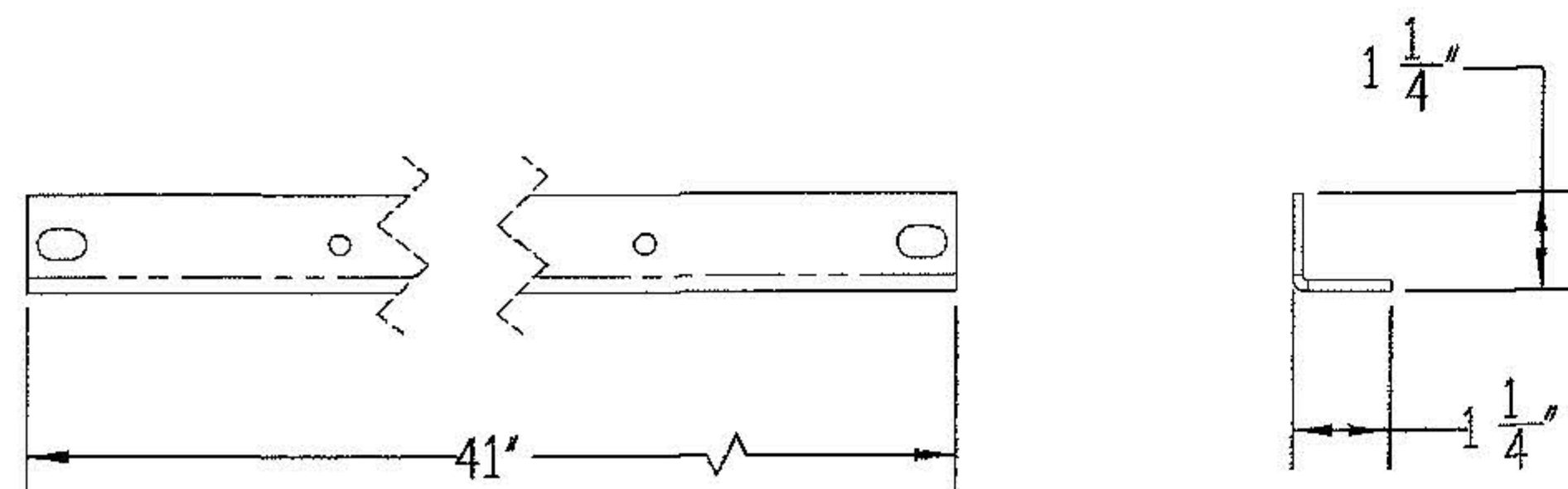
PIVOT LUG
1/4" THK.



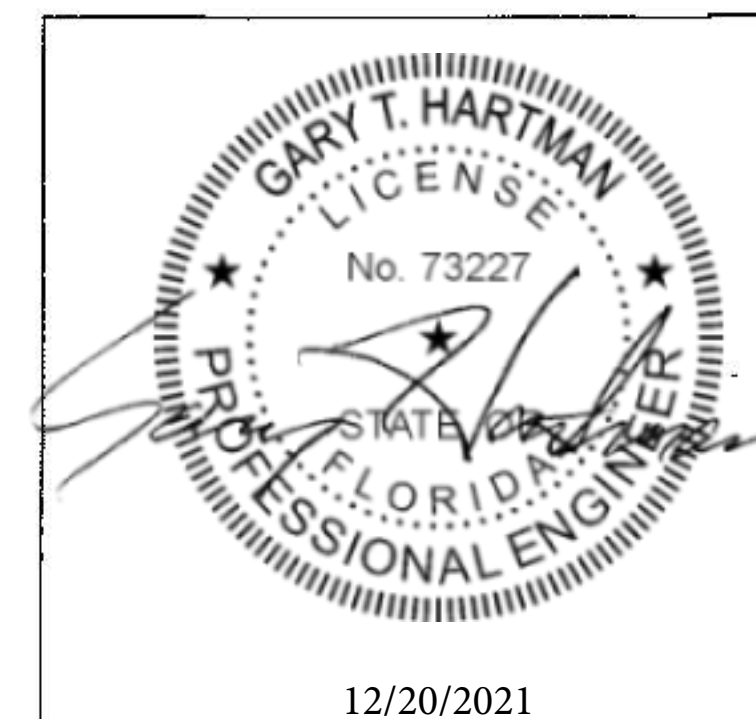
AIR SHAFT 2
16GA(0.06"), GALV. STEEL



AIRSHAFT 1
16GA(0.06"), GALV. STEEL



HOOD SUPPORT ANGLE
11GA(0.125"), GALV. STEEL



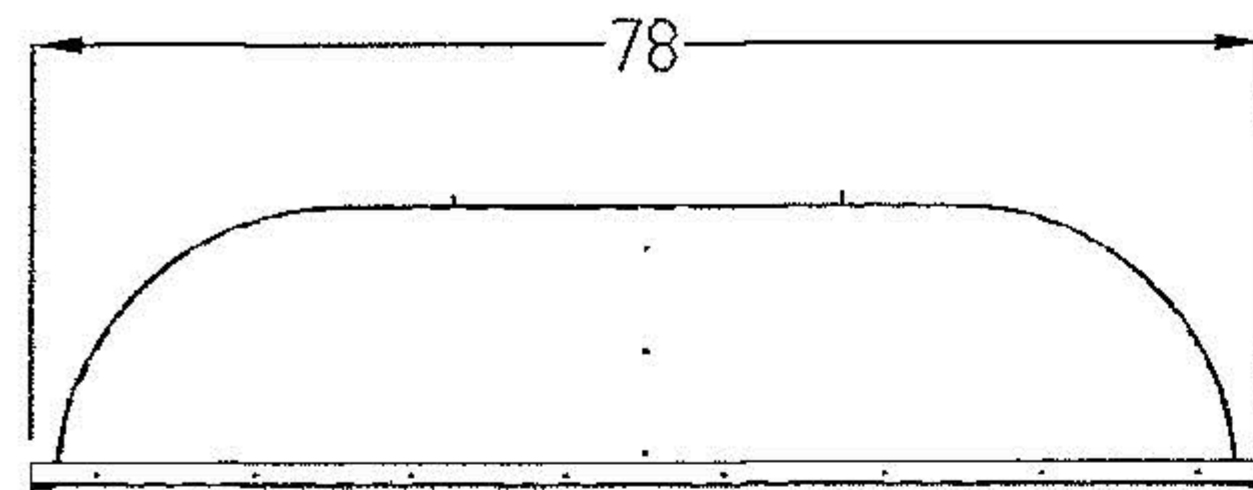
PennBarry 605 Shiloh RD Plano, TX 75074

POWER AIRETTE EXHAUST AND SUPPLY HOODED PROPELLER ROOF VENTILATORS COMPONENTS DETAILS

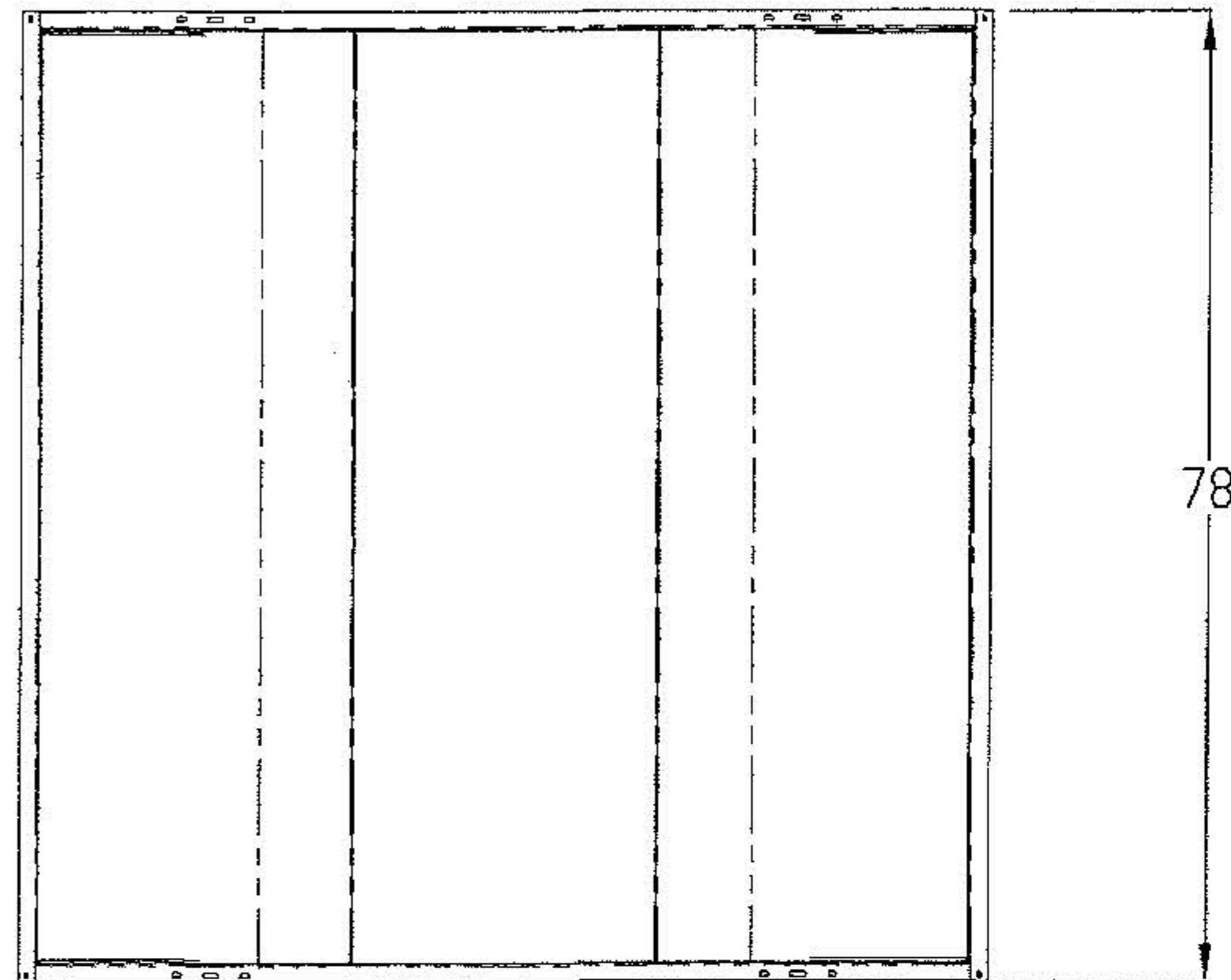
DRAWN:	AMIT	DWG NO.	24555-0	REV	
SCALE	NTS	DATE	09/09/2016	SHEET	9 OF 11

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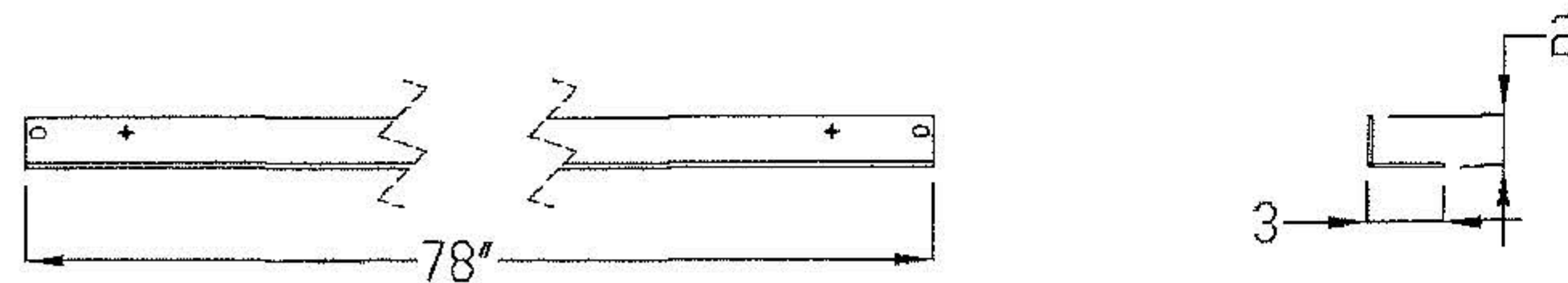
POWER AIRETTE 48



ACCESS HOOD ASSY.
10GA(0.13"), GALV. STEEL

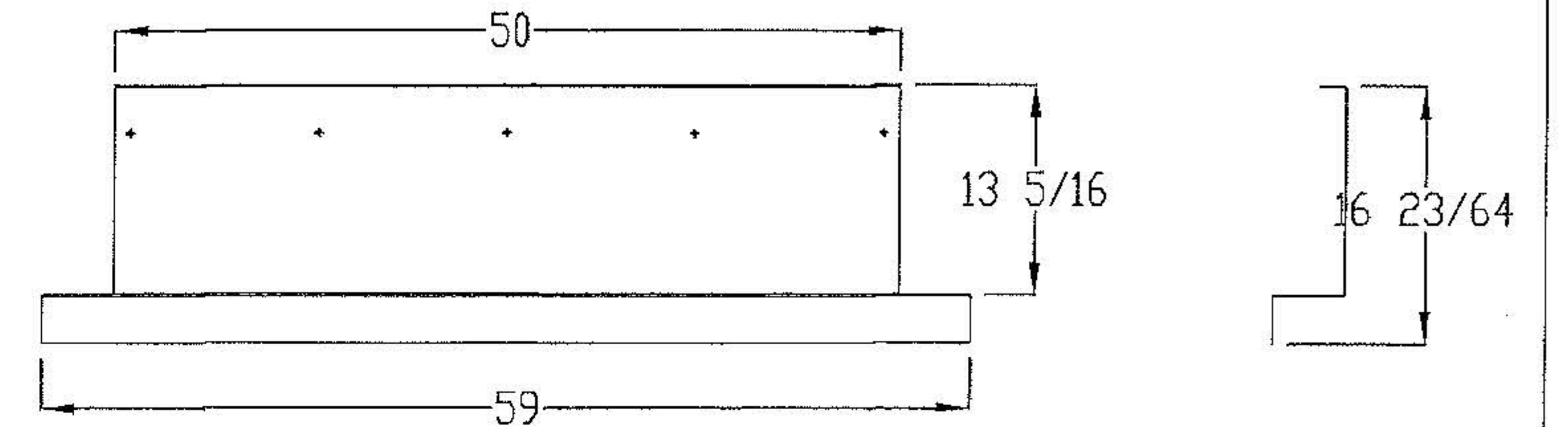


PIVOT LUG
1/4" THK.

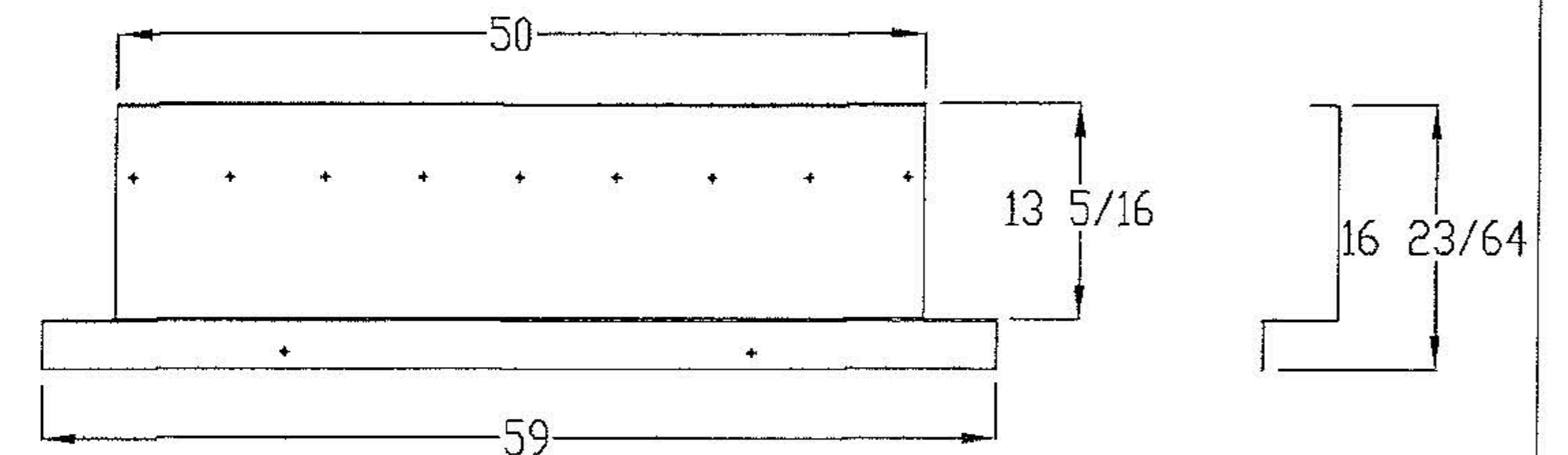


HOOD SUPPORT ANGLE
11GA(0.125"), GALV. STEEL

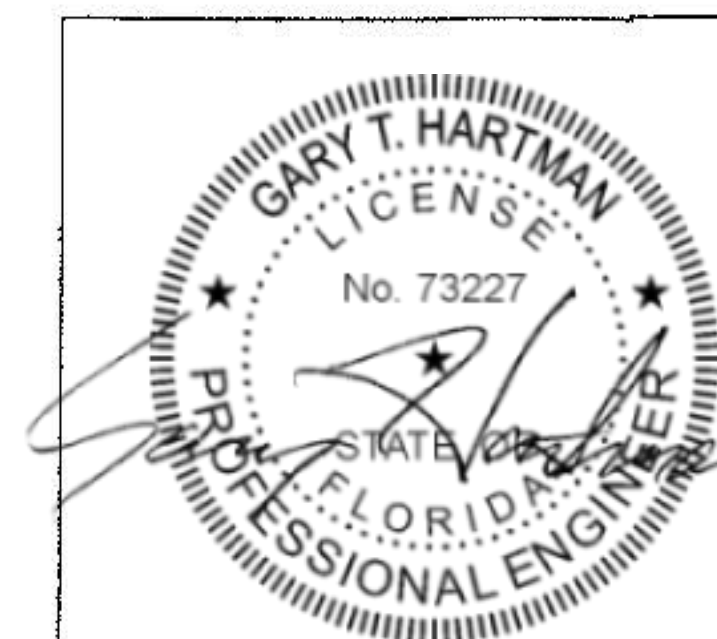
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-



AIRSHAFT ITEM2
16GA(0.06"), GALV. STEEL



AIRSHAFT ITEM1
16GA(0.06"), GALV. STEEL



12/20/2021

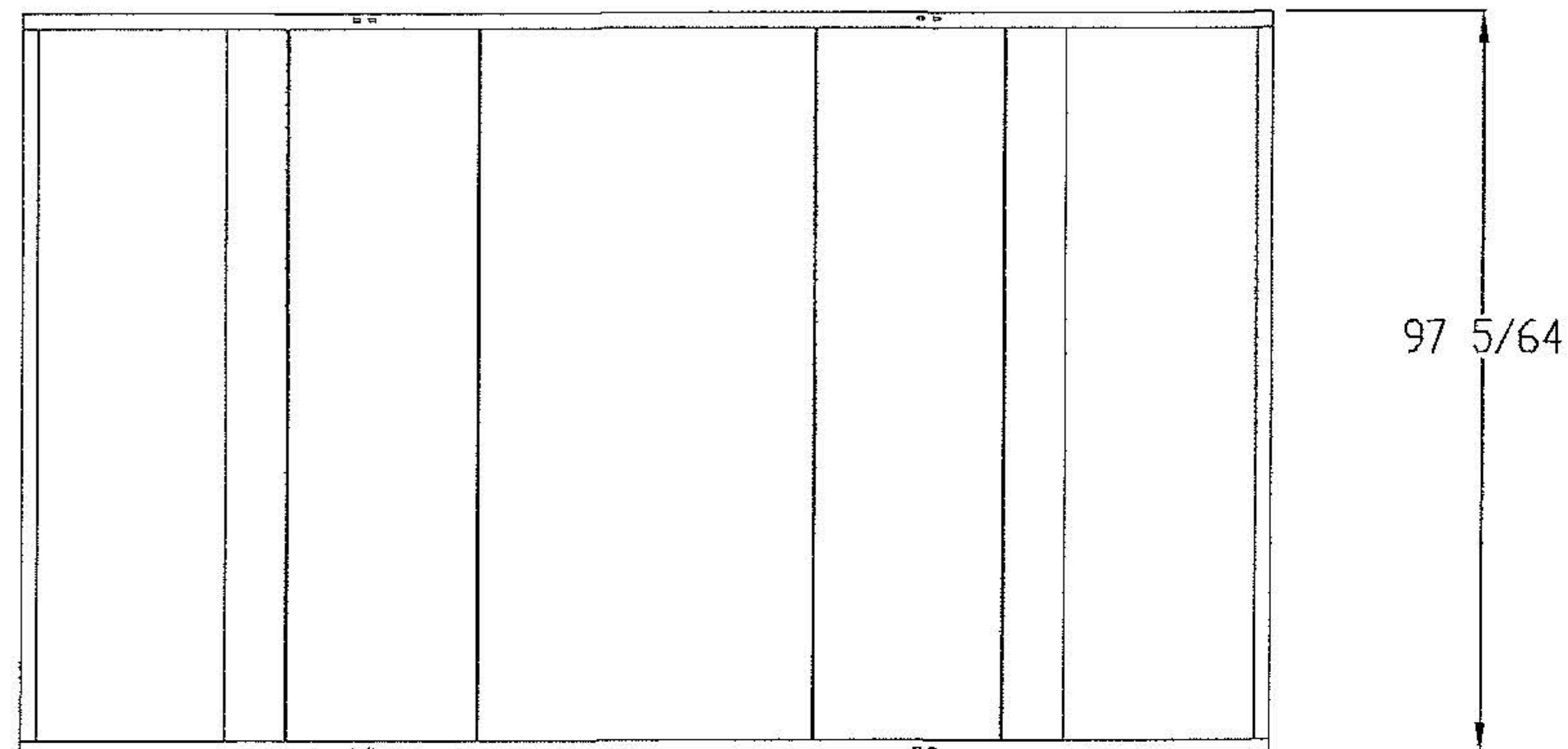
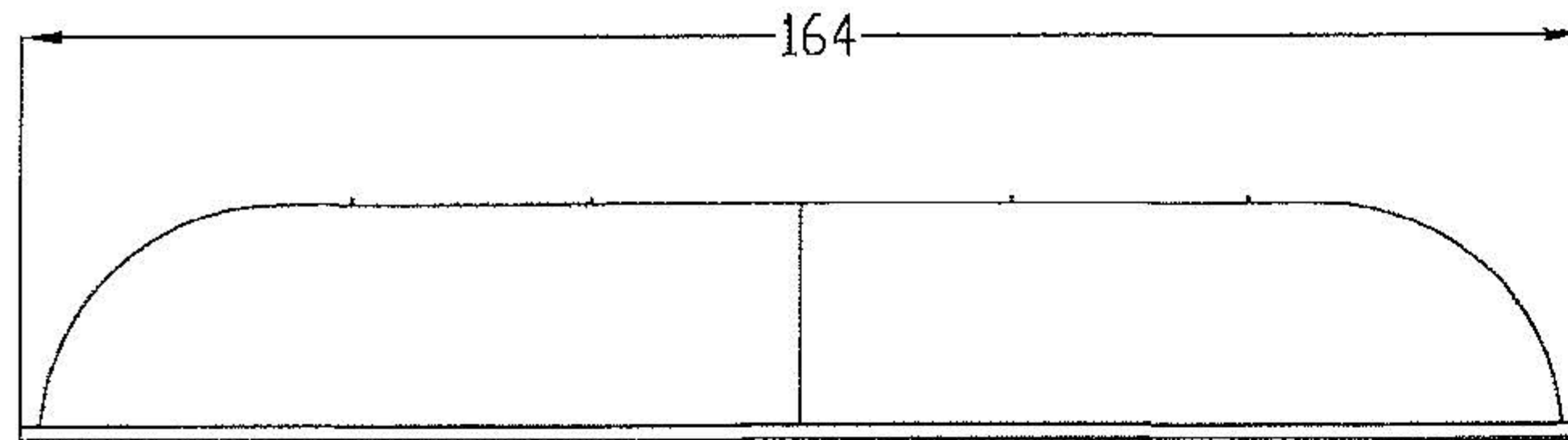
PennBarry 605 Shiloh RD Plano, TX 75074

POWER AIRETTE EXHAUST AND SUPPLY
HOODED PROPELLER ROOF VENTILATORS
COMPONENTS DETAILS

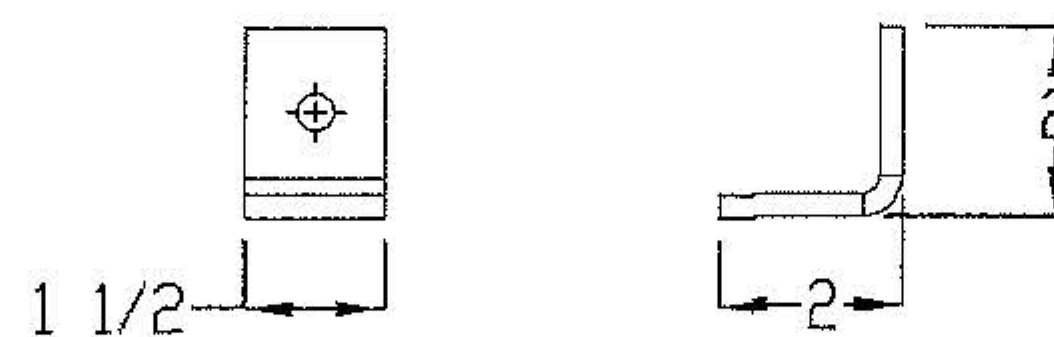
DRAWN:	AMIT	DWG NO.	24555-0	REV	
SCALE	NTS	DATE	09/09/2016	SHEET	10 OF 11

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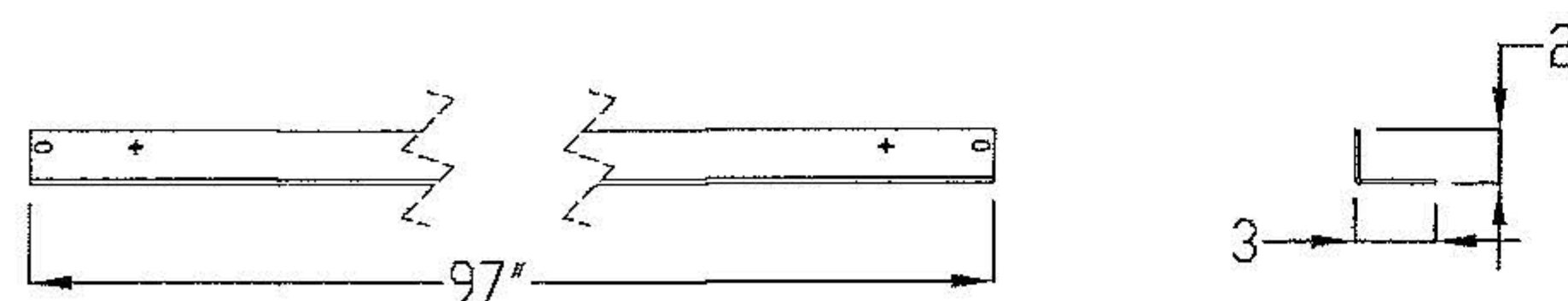
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ACCESS HOOD ASSY.
10GA(0.13"), GALV. STEEL



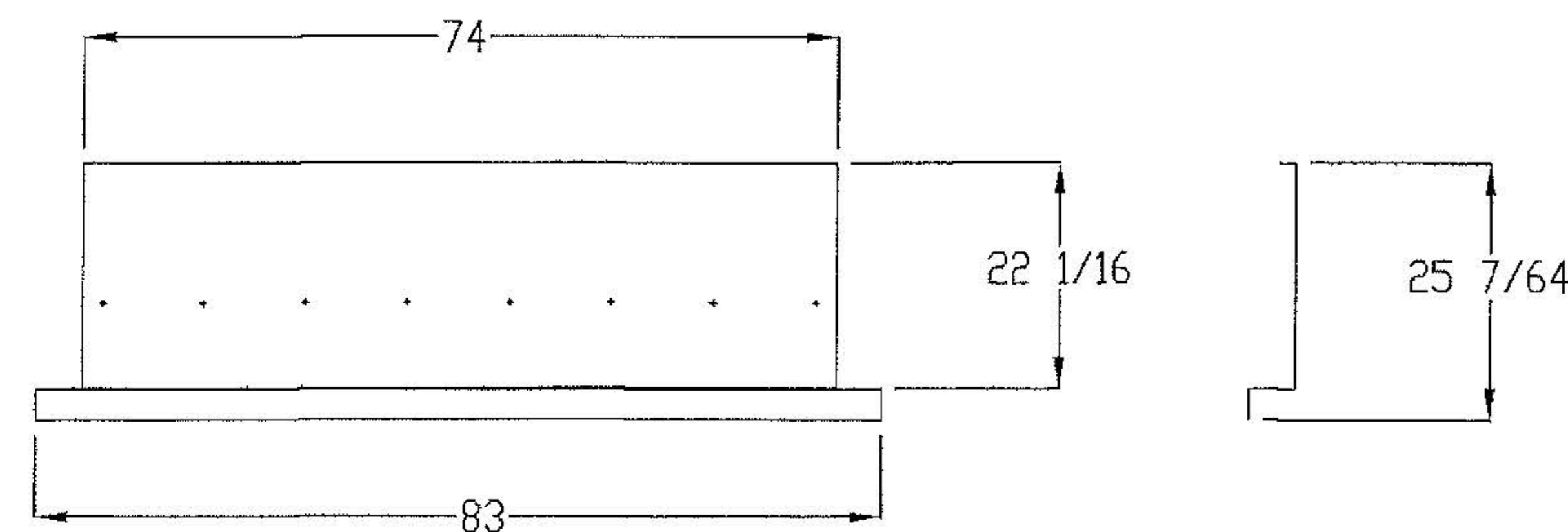
SUPPORT BRACKET
1/4" THK.



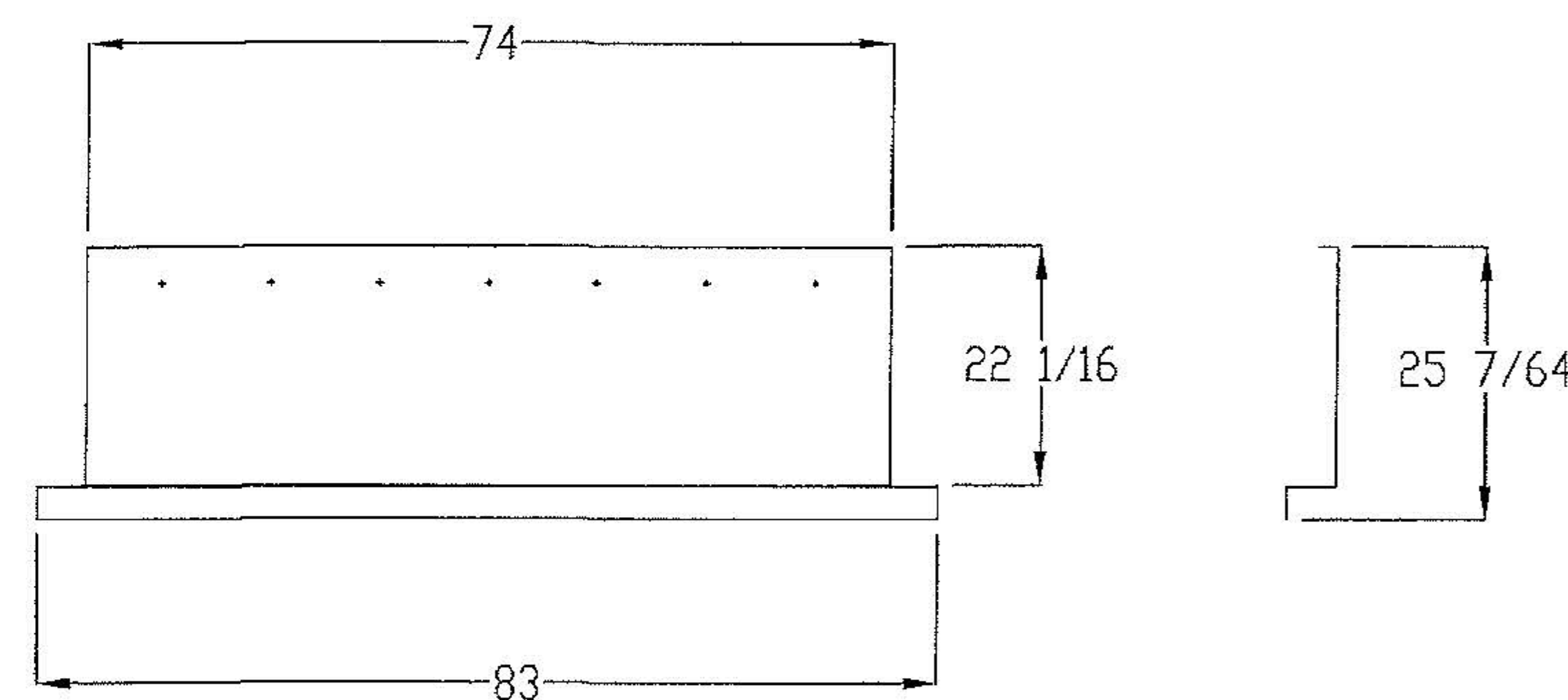
HOOD SUPPORT ANGLE
11GA(0.125"), GALV. STEEL

POWER AIRETTE 72

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-



AIR SHAFT ITEM 2
16GA(0.06"), GALV. STEEL



AIR SHAFT ITEM 1
16GA(0.06"), GALV. STEEL



12/20/2021

PennBarry 605 Shiloh RD Plano, TX 75074

POWER AIRETTE EXHAUST AND SUPPLY
HOODED PROPELLER ROOF VENTILATORS
COMPONENTS DETAILS

DRAWN AMIT	DWG NO. 24555-0	REV
SCALE NTS	DATE 09/09/2016	SHEET 11 OF 11

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