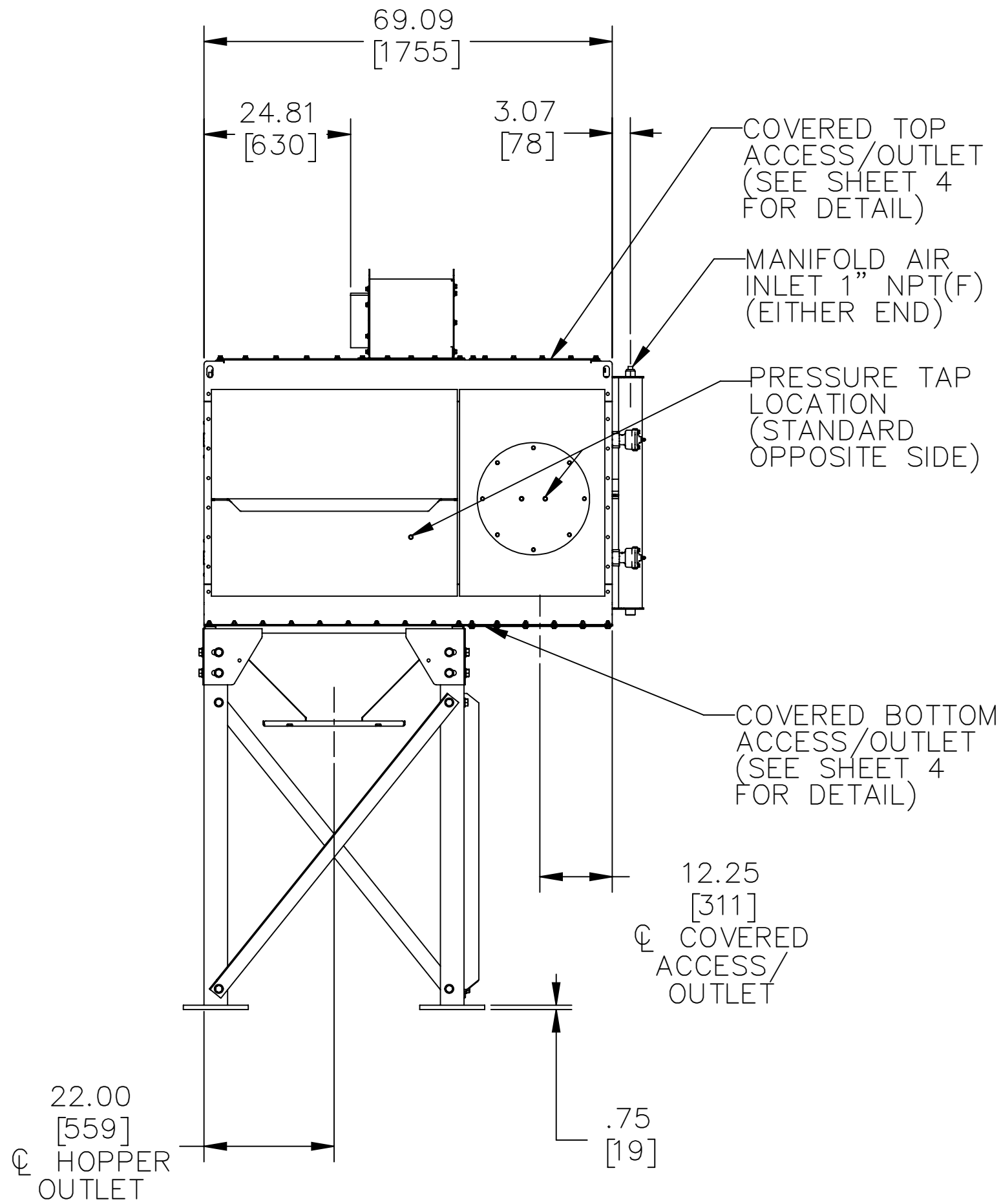
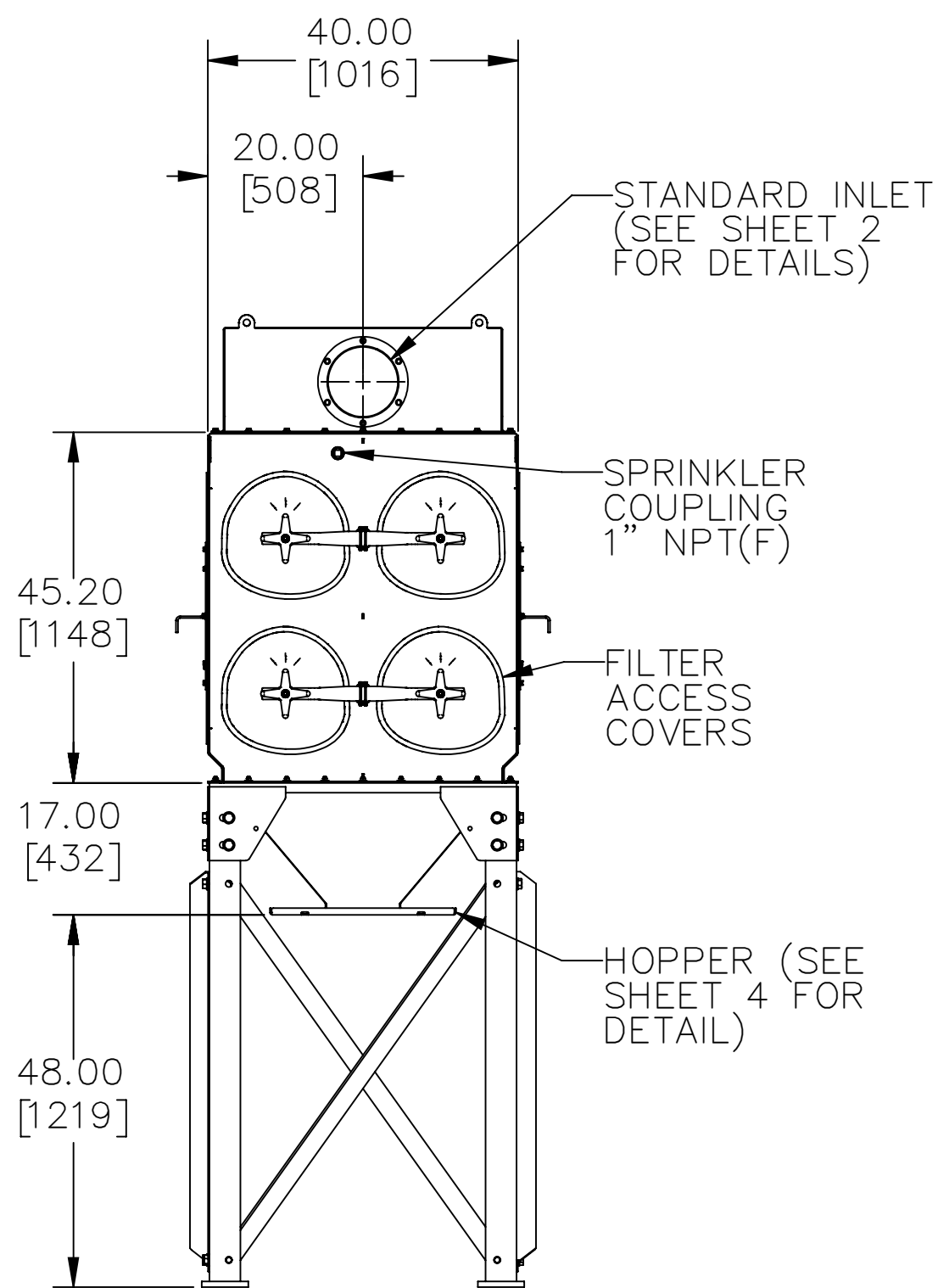
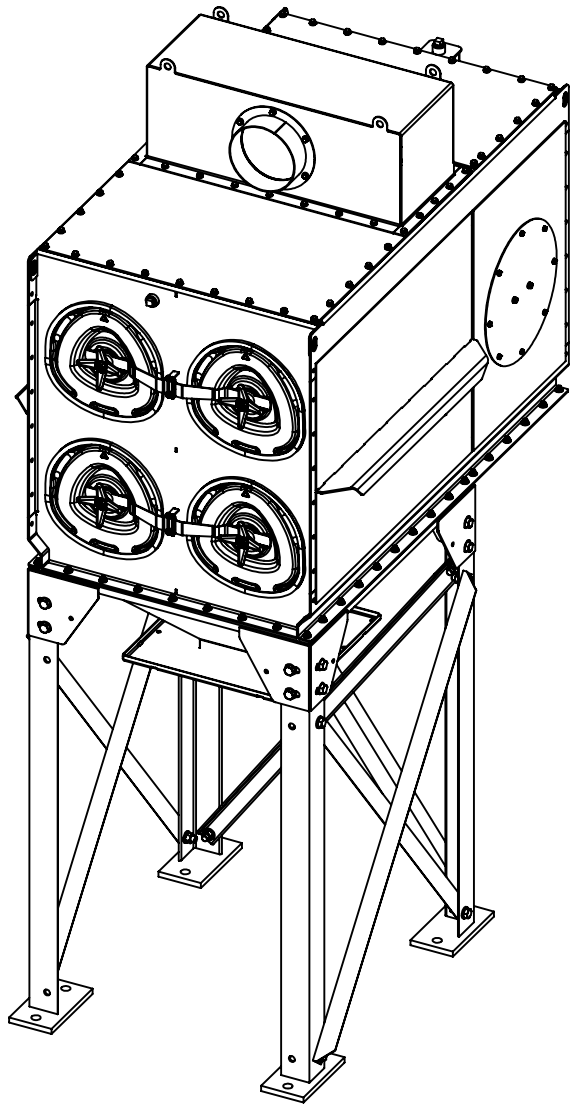
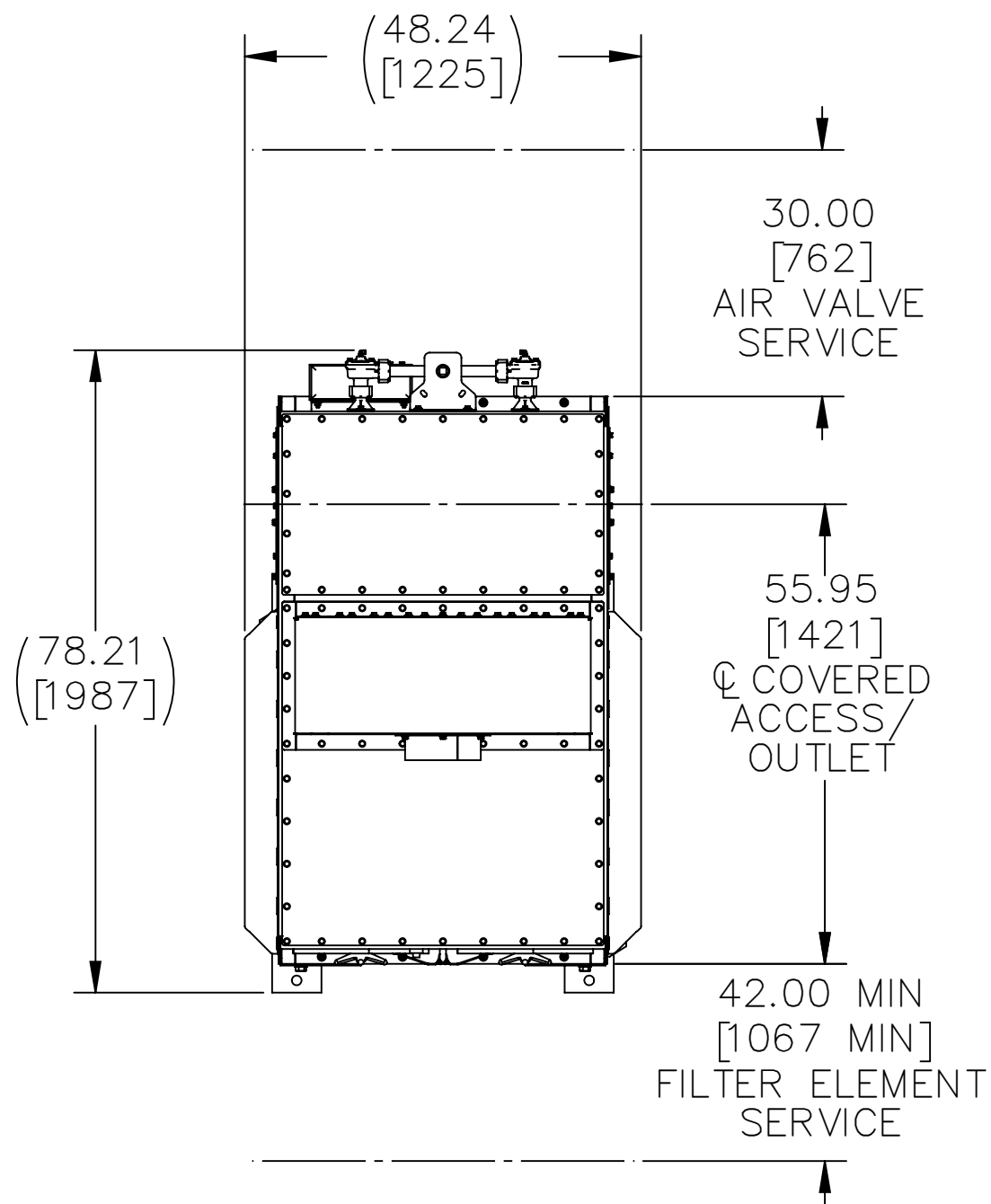


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REVISIONS		
REV	DESCRIPTION	DWN/DATE
8	UPDATE SPECIFICATIONS AND DRAWINGS FOR IBC 2024, REMOVE MEMBREX REFERENCE, UPDATE INLET WEIGHTS TO AVAILABLE INLET OPTIONS, UPDATE DISPLAY STATES 202405162	AJH 7/23/2026

DFE 2–4 COLLECTOR SPECIFICATIONS	
FAN HORSEPOWER	OPTIONS: 3–30 HP 50 OR 60 HZ
INLET	SEE SHEETS 2–3
NUMBER OF FILTERS	4 ULTRA–WEB (OPTIONS AVAILABLE)
ACTUAL FILTER AREA	1016 SQ FT [94 SQ M] (FILTER ELEMENTS MAY VARY)
FILTER DIMENSIONS	13.75 X 13.75 ASYM X 26.00 LG [350 X 350 X 660 LG]
NUMBER OF VALVES	4
COMPRESSED AIR REQUIRED	5.2 SCFM @ 60 PSIG [9 M3/HR @ 6–7 BAR]
HOUSING RATING	–25” WG [–635 mmWG]
P–RED	0.40 BAR
OPERATING TEMPERATURE	180° F MAXIMUM [82° C] (FILTER ELEMENTS MAY VARY)
STANDARD FINISH	BLUE
APPROXIMATE WEIGHT (STANDARD)	1564–1615 LBS [709–733 KG] (UNPOWERED)
APPROXIMATE WEIGHT (HI–FLO)	1643–1681 LBS [745–762 KG] (UNPOWERED)
APPROXIMATE WEIGHT (EDAP)	N/A

IBC 2024 SPECIFICATIONS	
RISK CATEGORY II (TORNADO LOAD NOT REQUIRED)	
BASIC WIND SPEED AND EXPOSURE	115 MPH [185 KM/H] (3 SEC GUST); CATEGORY C
SEISMIC SPECTRAL ACCELERATION	S1=0.60g, Ss=1.50g, Sm1=1.02g, Sms=1.80g; SITE CLASS D
GROUND SNOW LOAD	Pg=40 PSF [195 KG/M2]
ROOF LIVE LOAD	Lr=20 PSF [98 KG/M2]

COLLECTOR BASE AT GRADE		
COLLECTORS WITH IEP KE–R EXPLOSION VENTS		
DIRTY AIR CONFIGURATION	STANDARD INLET	HI–FLO INLET
NOMINAL SIZE	24 X 34 [610 X 864]	24 X 34 [610 X 864]
RELIEF AREA	4.26 SQ FT [0.40 SQ M]	4.26 SQ FT [0.40 SQ M]
NOMINAL BURST PRESSURE	1.45 PSIG [.010 BAR]	1.45 PSIG [.010 BAR]

NOTE

- DO NOT INSTALL OR OPERATE THIS EQUIPMENT UNTIL HAVING READ AND UNDERSTOOD THE INSTRUCTIONS AND WARNINGS IN THE INSTALLATION AND OPERATION MANUAL. FOR A REPLACEMENT MANUAL CONTACT DONALDSON COMPANY, INC. (800) 365–1331.
- NFPA 68 2018:
EXPLOSION VENT DUCTING LONGER THAN ONE HYDRAULIC DIAMETER OR WITH BENDS, ELBOWS OR OBSTRUCTIONS ENTAILS SIGNIFICANT DERATING OF THE EXPLOSION VENT. ALL PROPOSALS INCLUDING EXPLOSION VENT DUCTS OTHER THAN SHORT, STRAIGHT OPEN DUCTS SHOULD ALSO BE REFERRED TO DCI ENGINEERING FOR VENT PERFORMANCE CALCULATION AND DERATING, OR CUSTOM VENT SOLUTION. ANY EXPLOSION VENT DUCTING TO BE DESIGNED AND SUPPLIED BY OTHERS.
- ACTUAL COMPRESSED AIR CONSUMPTION MAY VARY DUE TO FEED PIPING DESIGN, PROXIMITY TO ACCUMULATION TANKS, UPSTREAM FLOW DEMAND AND OTHER COMPRESSED AIR SYSTEM EFFECTS.
- DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
- ANCHOR BOLTS BY OTHERS. FINAL SELECTION WILL DEPEND ON JOBSITE LOAD CONDITIONS, FOUNDATION DESIGN, LOCAL CODES, ETC. CONSULT PRODUCT INSTALLATION, OPERATION AND MAINTENANCE MANUAL FOR GENERAL INSTALLATION INFORMATION.

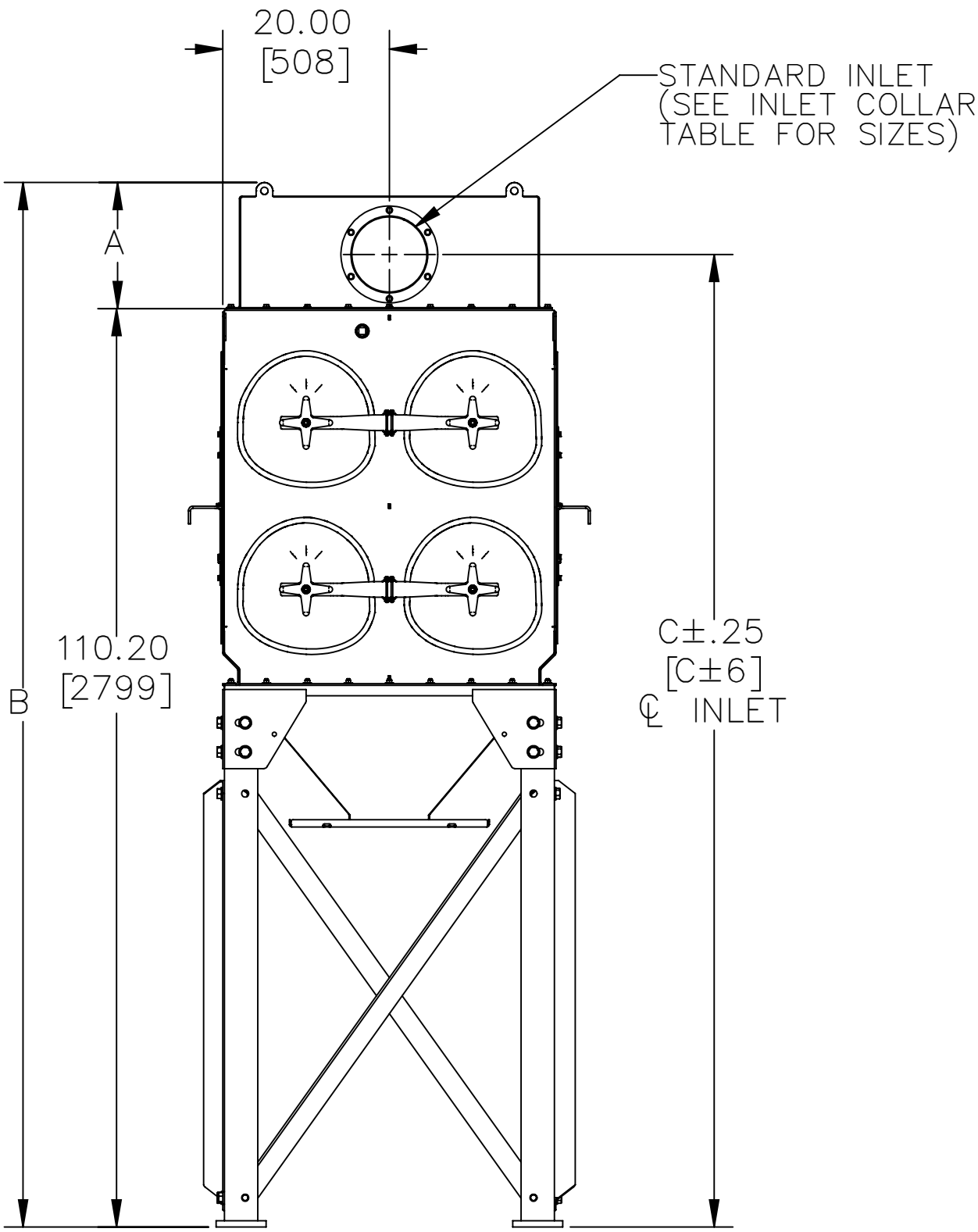
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REFERENCE			DWN J FOLINE		NUMBER DFE AG8249301									
			DATE 9/6/2014											
			CHK T RAETHER		SCALE NONE					SHEET 1 OF 10		REVISION		
			DATE 9/6/2014					8						
PREVIOUS DRAWING NO.			APVD T RAETHER		C/C SW/CADD									
DO NOT SCALE			TOLERANCES UNLESS OTHERWISE SPECIFIED		2 PL ± 3 PL ± ANGLES ± °		THIRD ANGLE PROJECTION				DESIGN CONTROL A004 DWG LOCATION A101		VERSION A	
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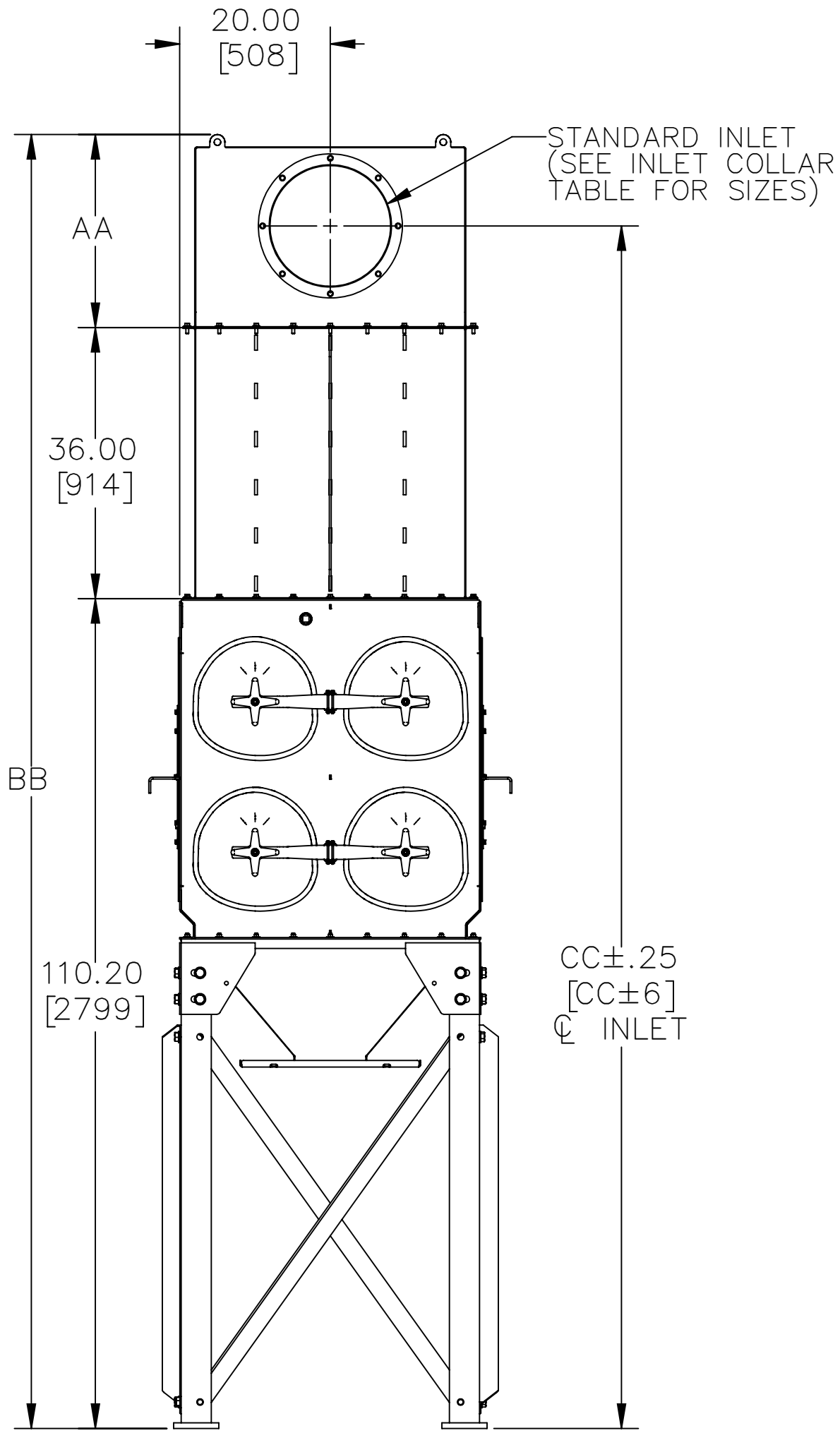
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STANDARD INLET COLLAR SIZES		
INLET SIZE (ID)	A	B
ø5–9 ID	15.13 [384]	125.33 [3183]
ø10–16 ID	25.63 [651]	135.83 [3450]
STANDARD INLET HEIGHTS ø5–9 ID		
INLET SIZE (ID)	C	
ø5 [127]	118.69 [3015]	
ø6 [152]	118.19 [3002]	
ø7 [178]	117.69 [2989]	
ø8 [203]	117.19 [2977]	
ø9 [229]	116.69 [2964]	
STANDARD INLET HEIGHTS ø10–16 ID		
INLET SIZE (ID)	C	
ø10 [254]	126.69 [3218]	
ø11 [279]	126.19 [3205]	
ø12 [305]	125.69 [3193]	
ø13 [330]	125.19 [3180]	
ø14 [356]	124.69 [3167]	
ø15 [381]	124.19 [3154]	
ø16 [406]	123.69 [3142]	



STANDARD INLET PLENUM

STANDARD INLET COLLAR SIZES		
INLET SIZE (ID)	AA	BB
ø5–9 ID	15.13 [384]	161.33 [4098]
ø10–16 ID	25.63 [651]	171.83 [4364]
STANDARD INLET W/ SPOOL HEIGHTS ø5–9 ID		
INLET SIZE (ID)	CC	
ø5 [127]	154.69 [3929]	
ø6 [152]	154.19 [3916]	
ø7 [178]	153.69 [3904]	
ø8 [203]	153.19 [3891]	
ø9 [229]	152.69 [3878]	
STANDARD INLET W/ SPOOL HEIGHTS ø10–16 ID		
INLET SIZE (ID)	CC	
ø10 [254]	162.69 [4132]	
ø11 [279]	162.19 [4120]	
ø12 [305]	161.69 [4107]	
ø13 [330]	161.19 [4094]	
ø14 [356]	160.69 [4082]	
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ø16 [406]	159.69 [4056]	

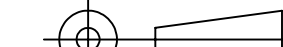


STANDARD INLET PLENUM
W/ EXTENSION SPOOL

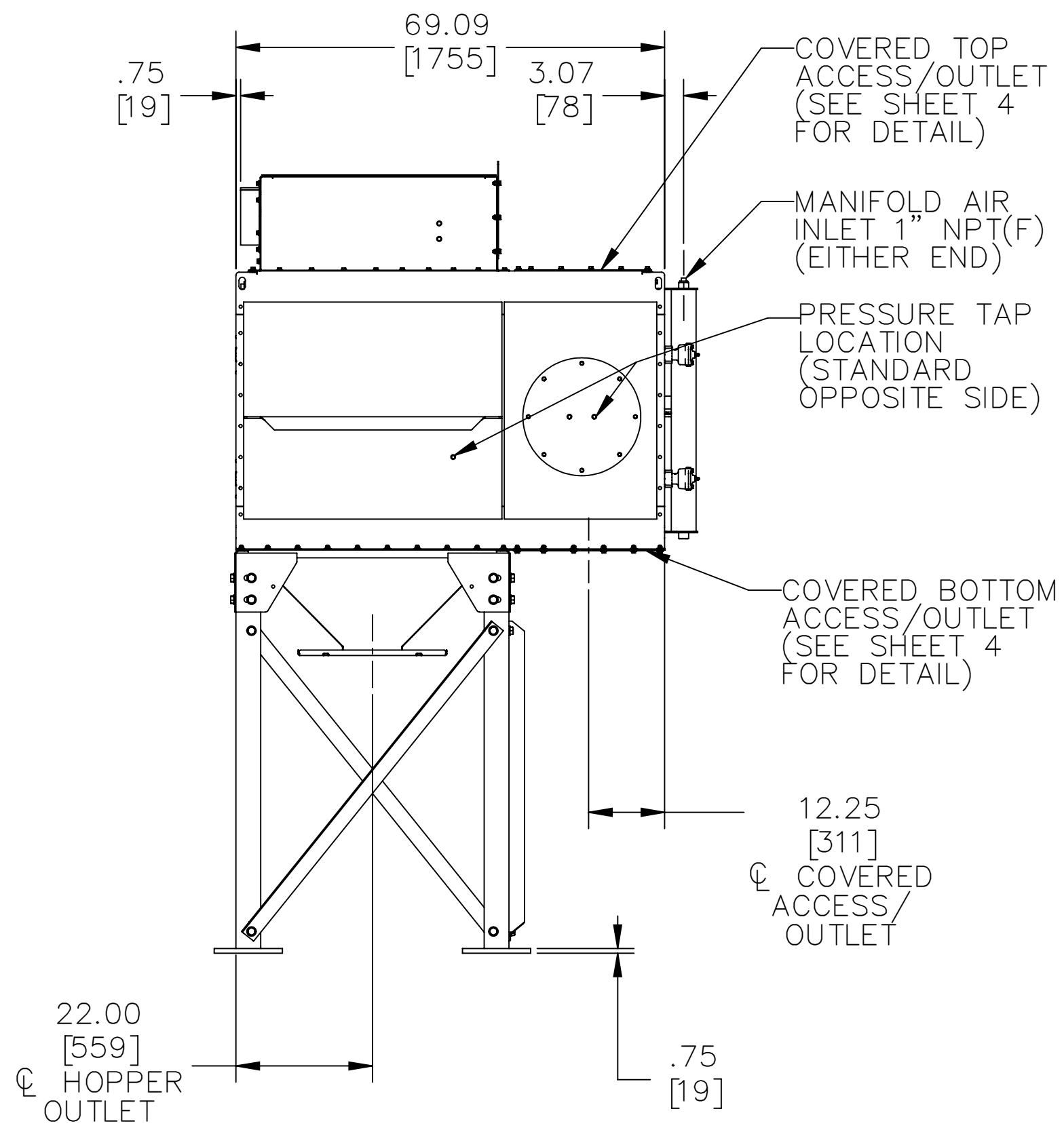
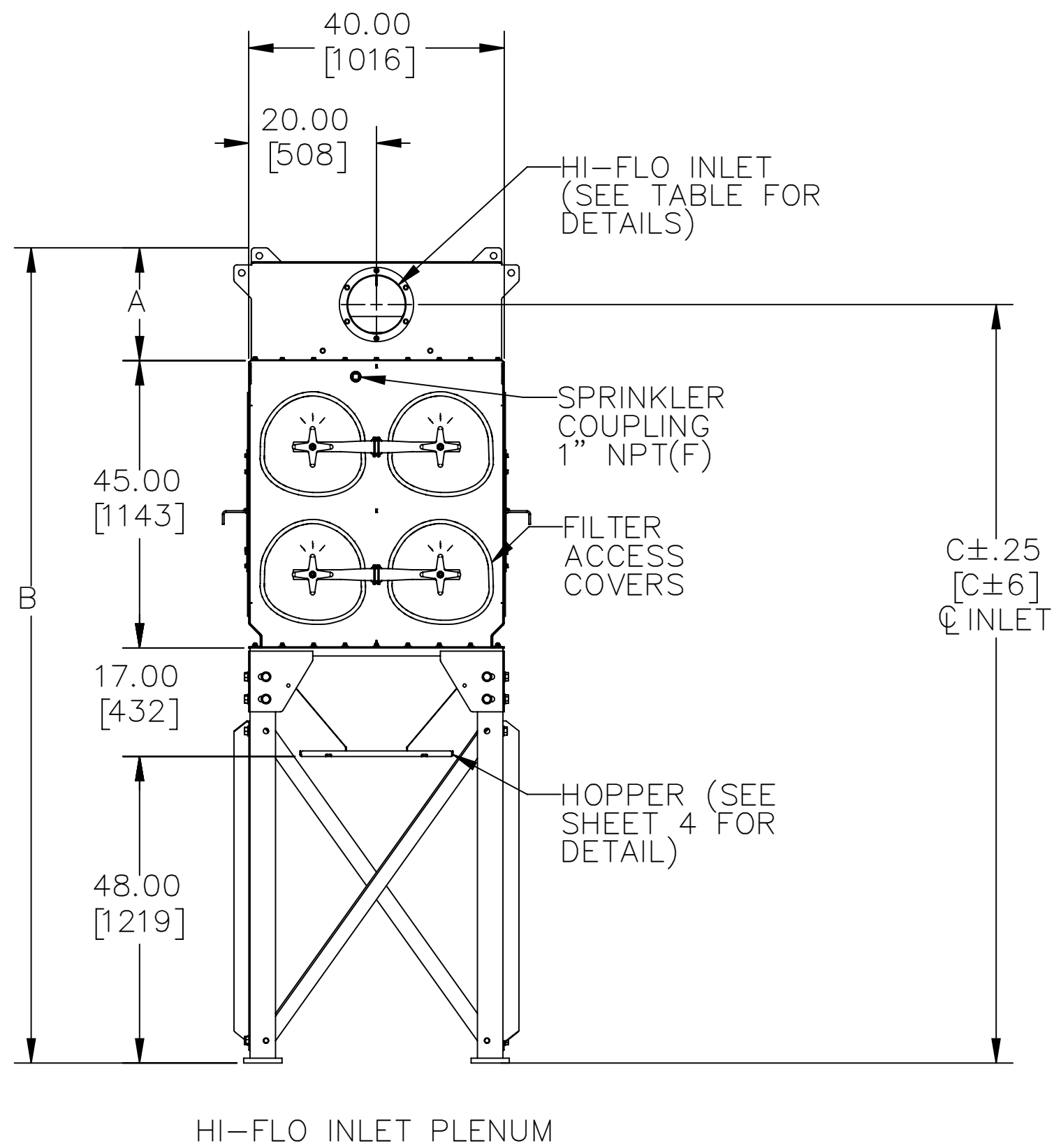
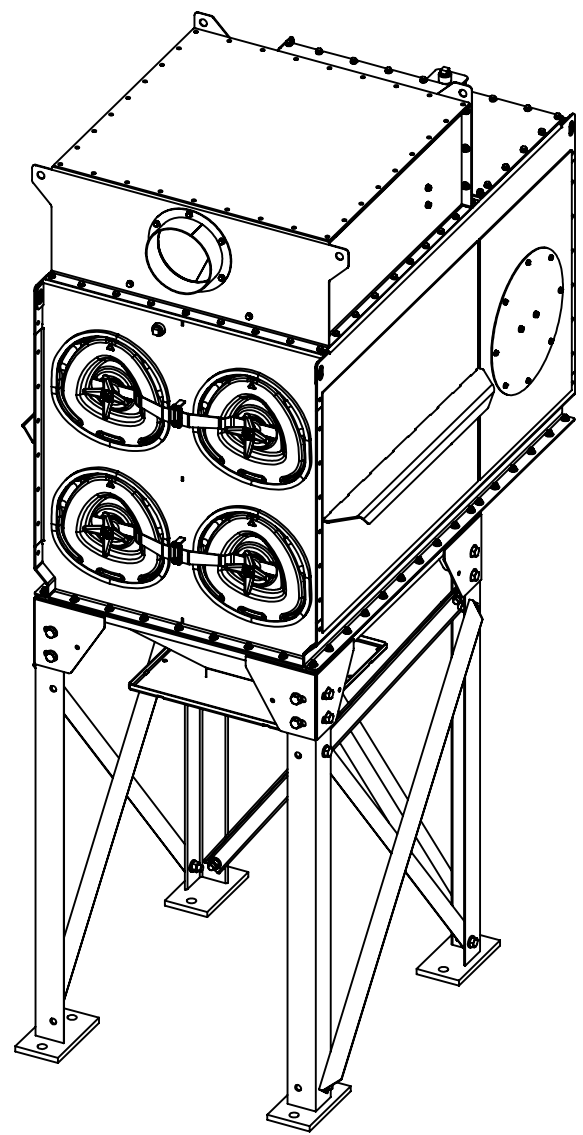
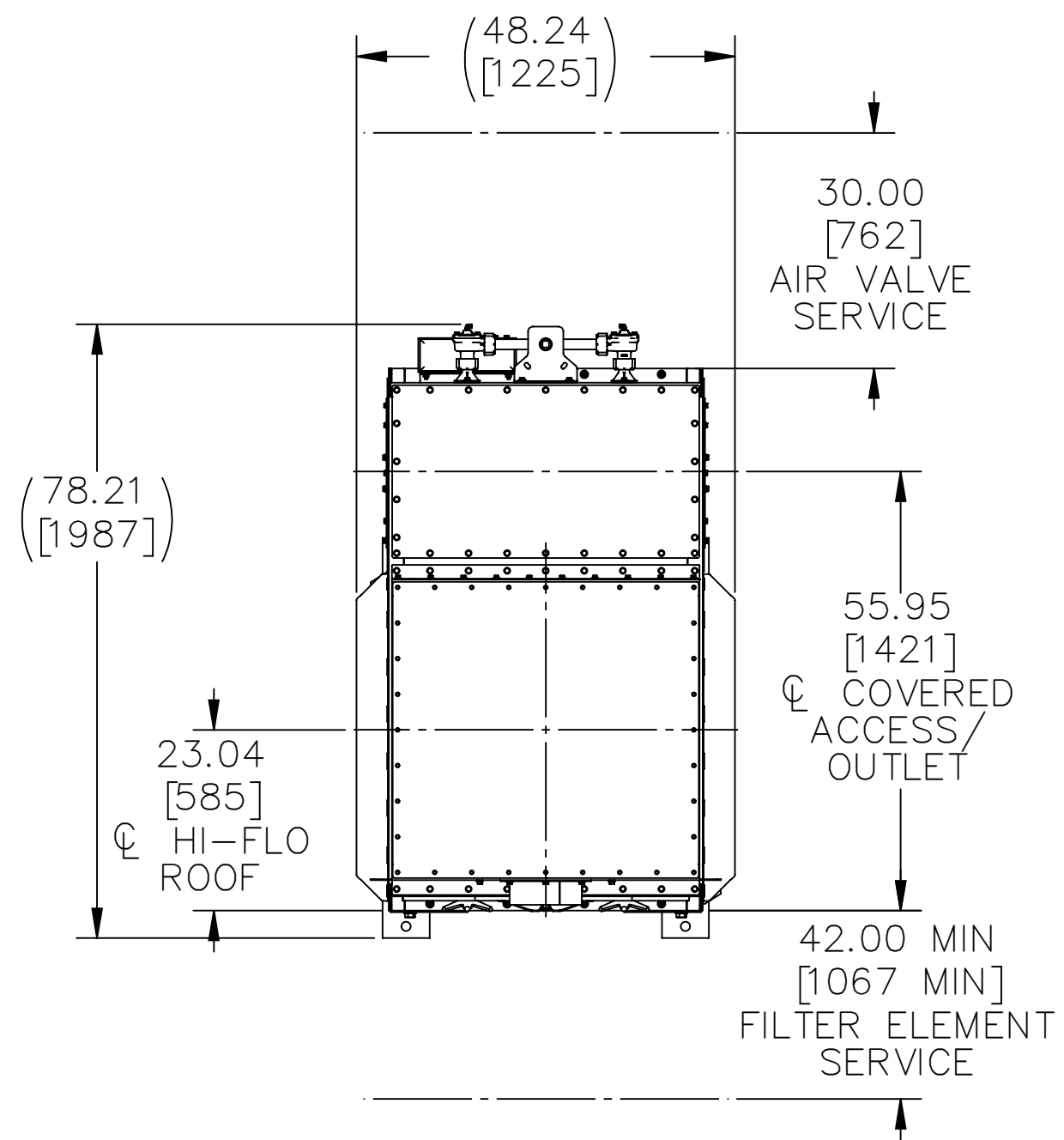
NOTE

1. INLET EXTENSION SPOOL IS REQUIRED WHEN AN EXPLOSION VENT IS MOUNTED ON THE ROOF OF THE CABINET (SEE SHEET 5).
2. IF HEIGHT RESTRICTIONS ARE A CONCERN FOR INSTALLATION, THE STANDARD INLET PLENUM CAN BE REVERSED FOR ENTRY FROM THE REAR OF THE COLLECTOR.
3. FANS MOUNTED TO THE TOP OF THE CLEAN AIR PLENUM ARE NOT RECOMMENDED WHEN REVERSING THE STANDARD INLET PLENUM.

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DATE 9/6/2014										
CHK T RAETHER										
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REFERENCE		DATE 9/6/2014		C/C		SW/CADD			8	
		DATE 9/6/2014								
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		DATE 9/2/2014								
DO NOT SCALE	TOLERANCES UNLESS OTHERWISE SPECIFIED	2 PL ±		DESIGN CONTROL A004 DWG LOCATION A101 VERSION A						
		3 PL ±								
		ANGLES ± °		COPYRIGHT © DONALDSON COMPANY, INC.						
		THIRD ANGLE PROJECTION								
				L D						

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HI-FLO INLET COLLAR SIZES		
INLET SIZE (ID)	A	B
ø5-9 ID	17.68 [449]	127.68 [3243]
ø10-16 ID	24.38 [619]	134.38 [3413]
HI-FLO INLET HEIGHTS ø5-9 ID		
INLET SIZE (ID)	C	
ø5 [127]	120.80 [3068]	
ø6 [152]	120.30 [3056]	
ø7 [178]	119.80 [3043]	
ø8 [203]	119.30 [3030]	
ø9 [229]	118.80 [3018]	
HI-FLO INLET HEIGHTS ø10-16 ID		
INLET SIZE (ID)	C	
ø10 [254]	125.00 [3175]	
ø11 [279]	124.50 [3162]	
ø12 [305]	124.00 [3150]	
ø13 [330]	123.50 [3137]	
ø14 [356]	123.00 [3124]	
ø15 [381]	122.50 [3112]	
ø16 [406]	122.00 [3099]	

NOTE

1. THE HI-FLO INLET IS ONLY DESIGNED FOR AIRFLOW ENTERING THE PLENUM FROM THE FRONT OF THE COLLECTOR.
2. AN EXPLOSION VENT OPTION IS AVAILABLE FOR MOUNTING ON THE TOP OF THE HI-FLO PLENUM (SEE SHEET 6).

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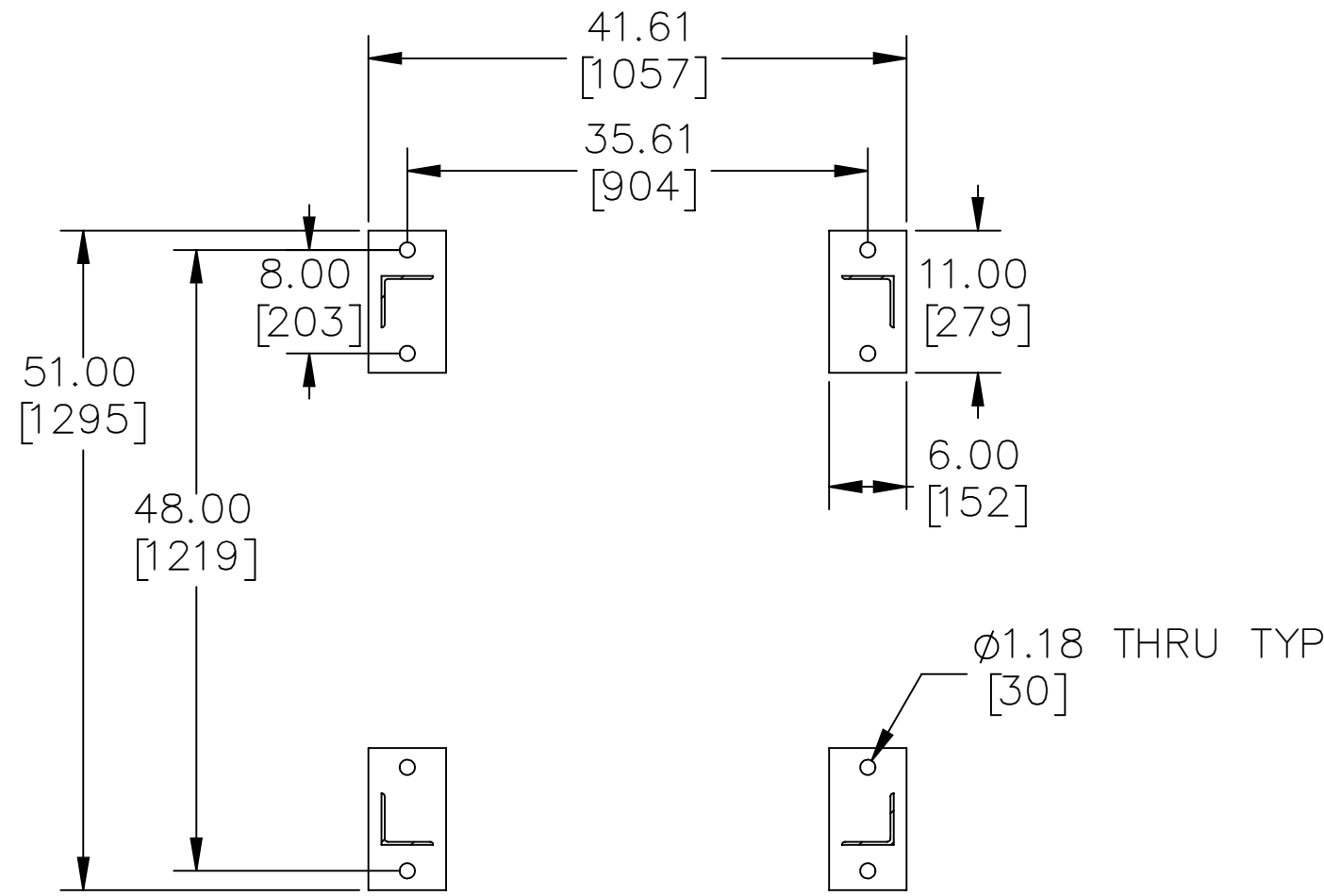
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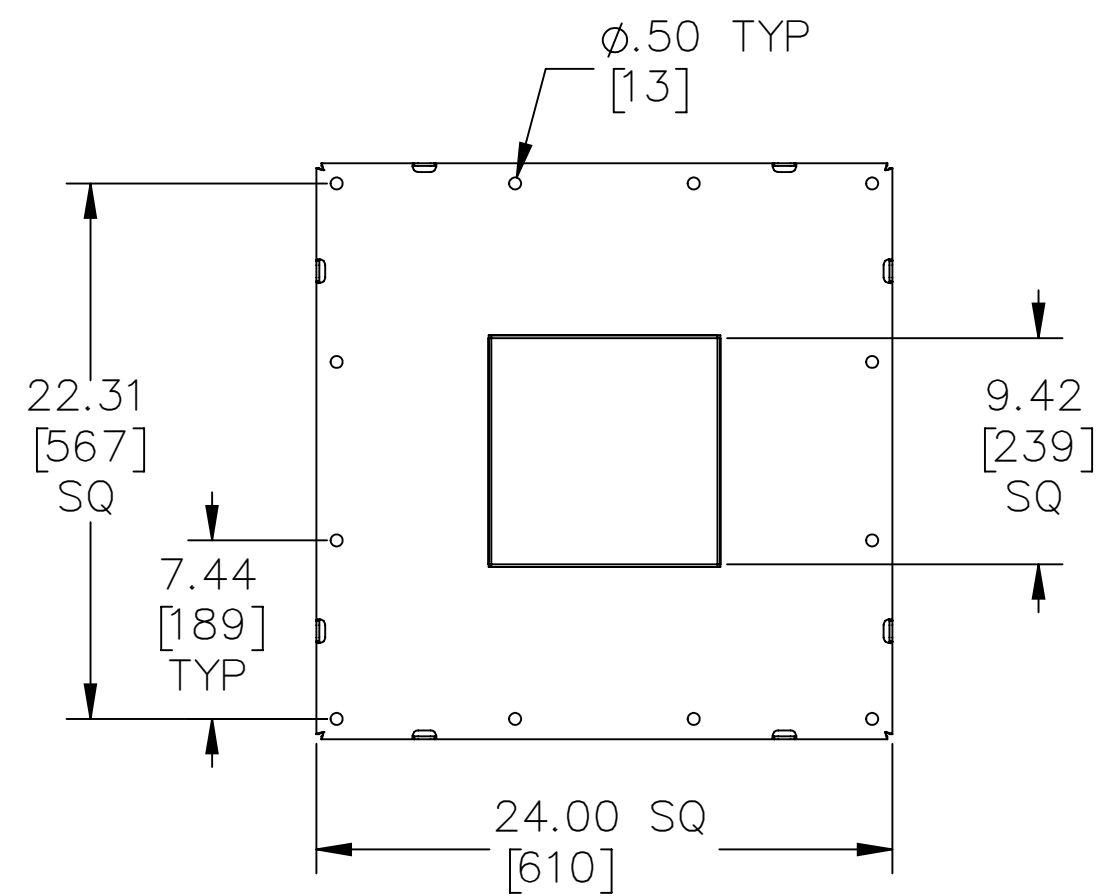
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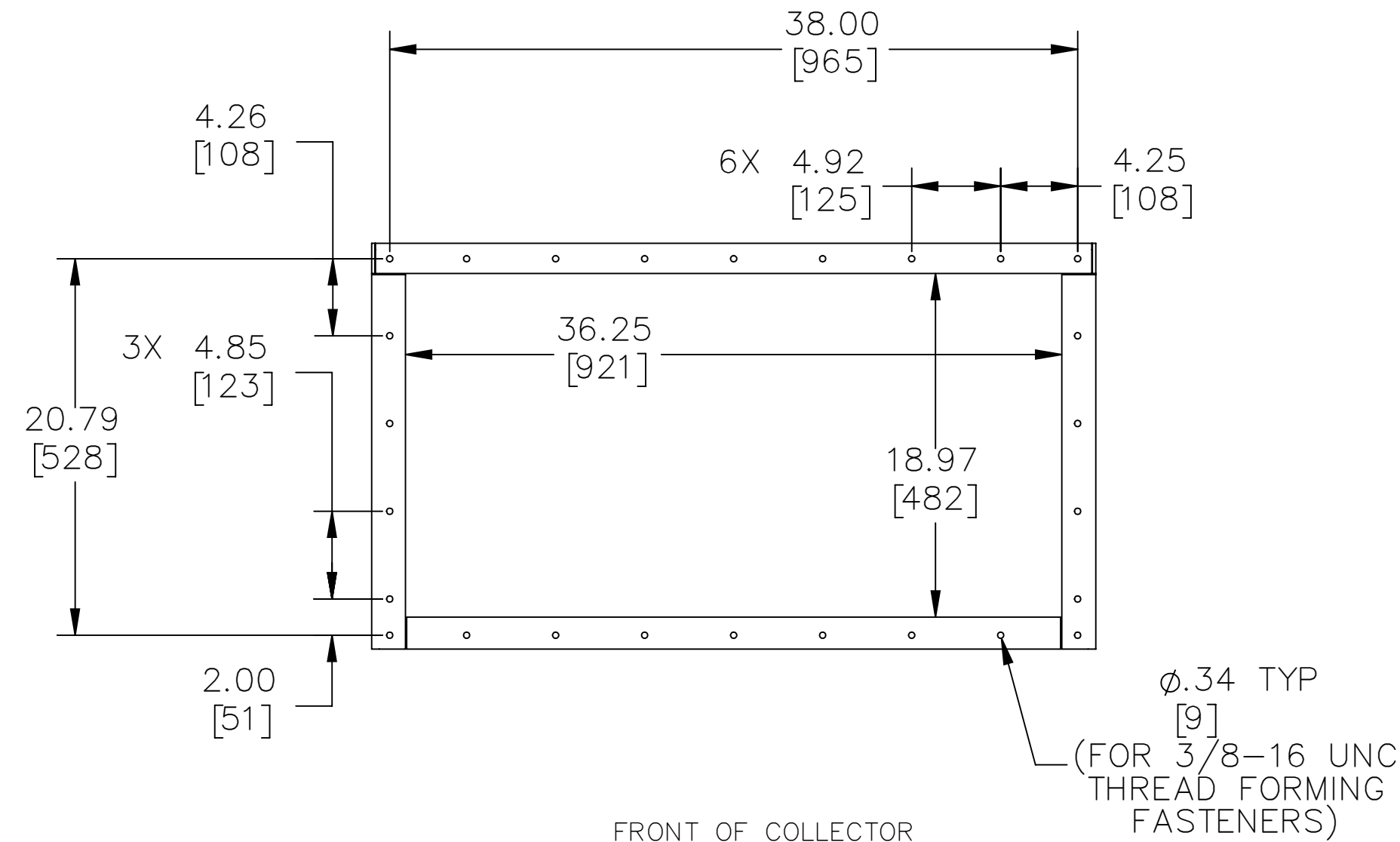
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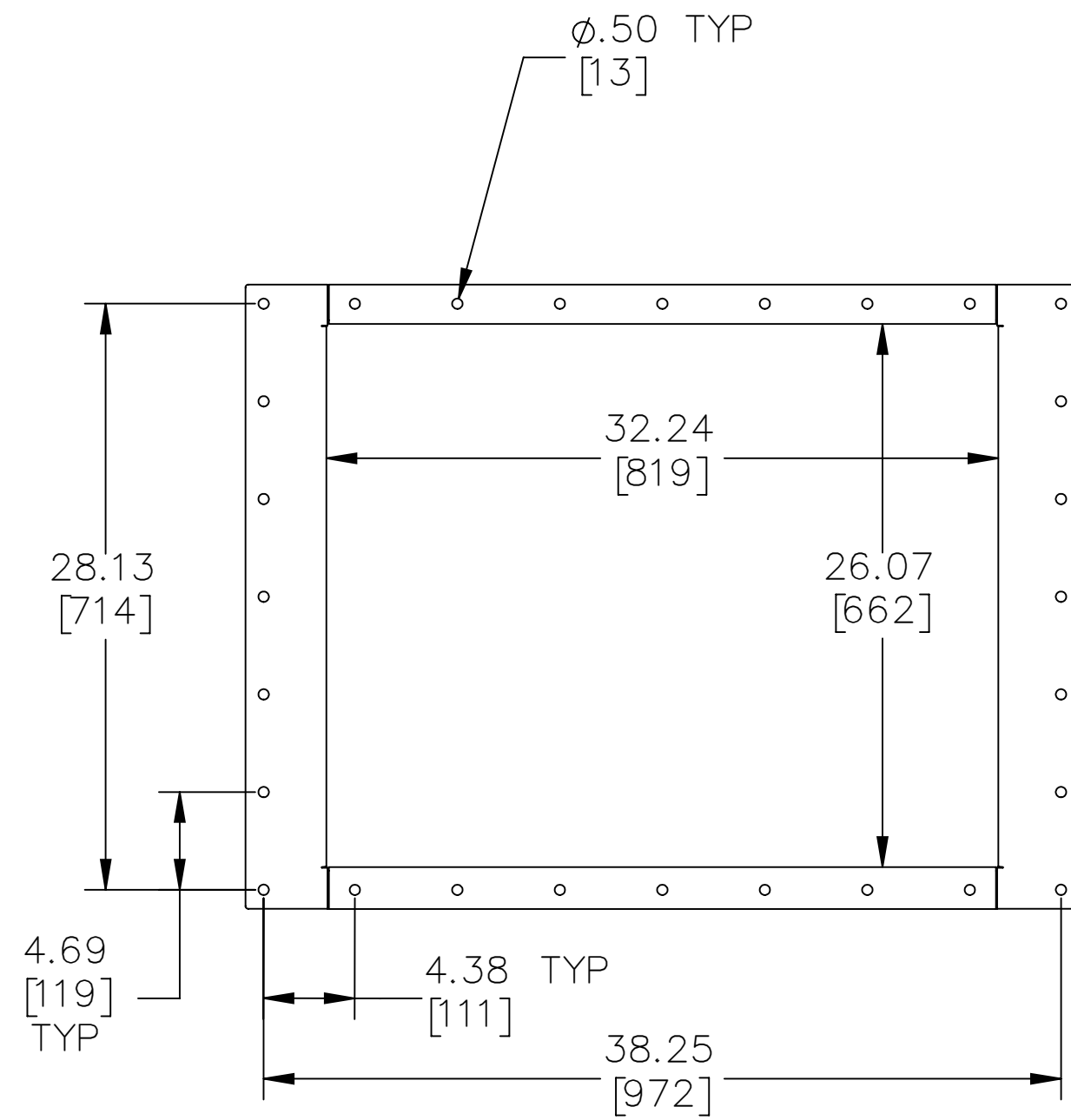
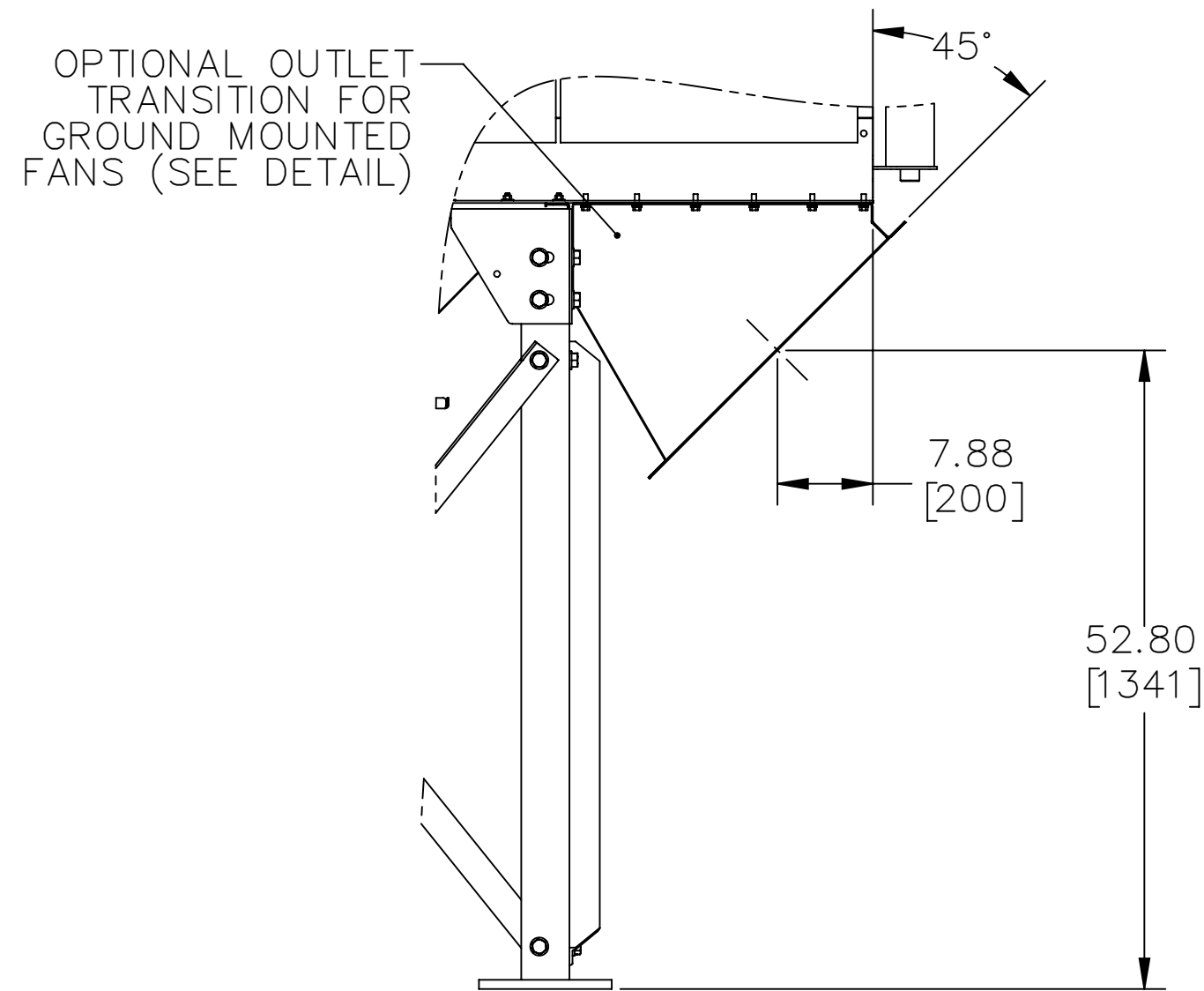
FRONT OF COLLECTOR
ANCHOR BOLT PLAN
(SEE NOTE 5 ON SHEET 1)



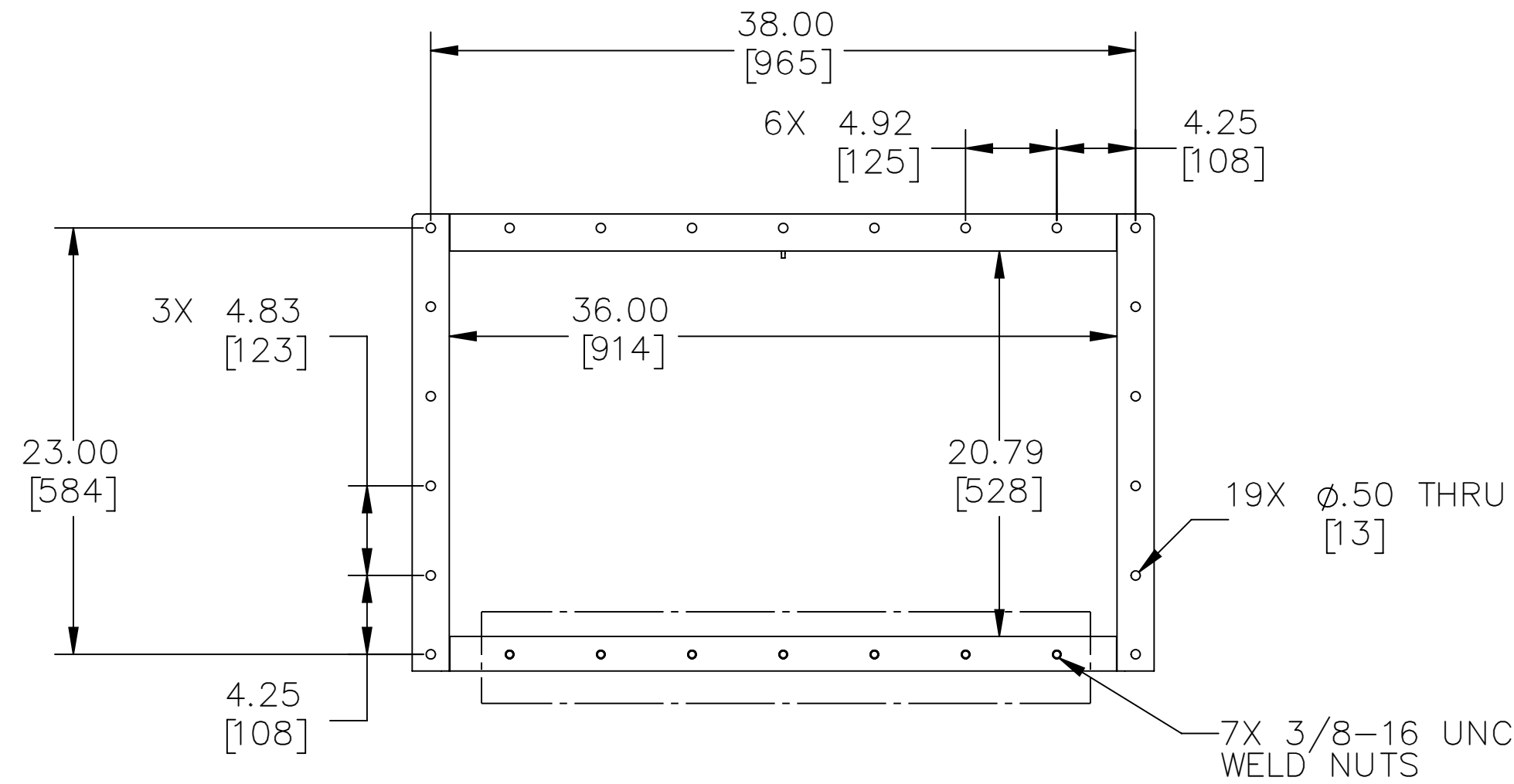
HOPPER OUTLET FLANGE
DETAIL



FRONT OF COLLECTOR
TOP ACCESS/OUTLET
DETAIL



OUTLET TRANSITION FLANGE
DETAIL



FRONT OF COLLECTOR
BOTTOM ACCESS/OUTLET
DETAIL

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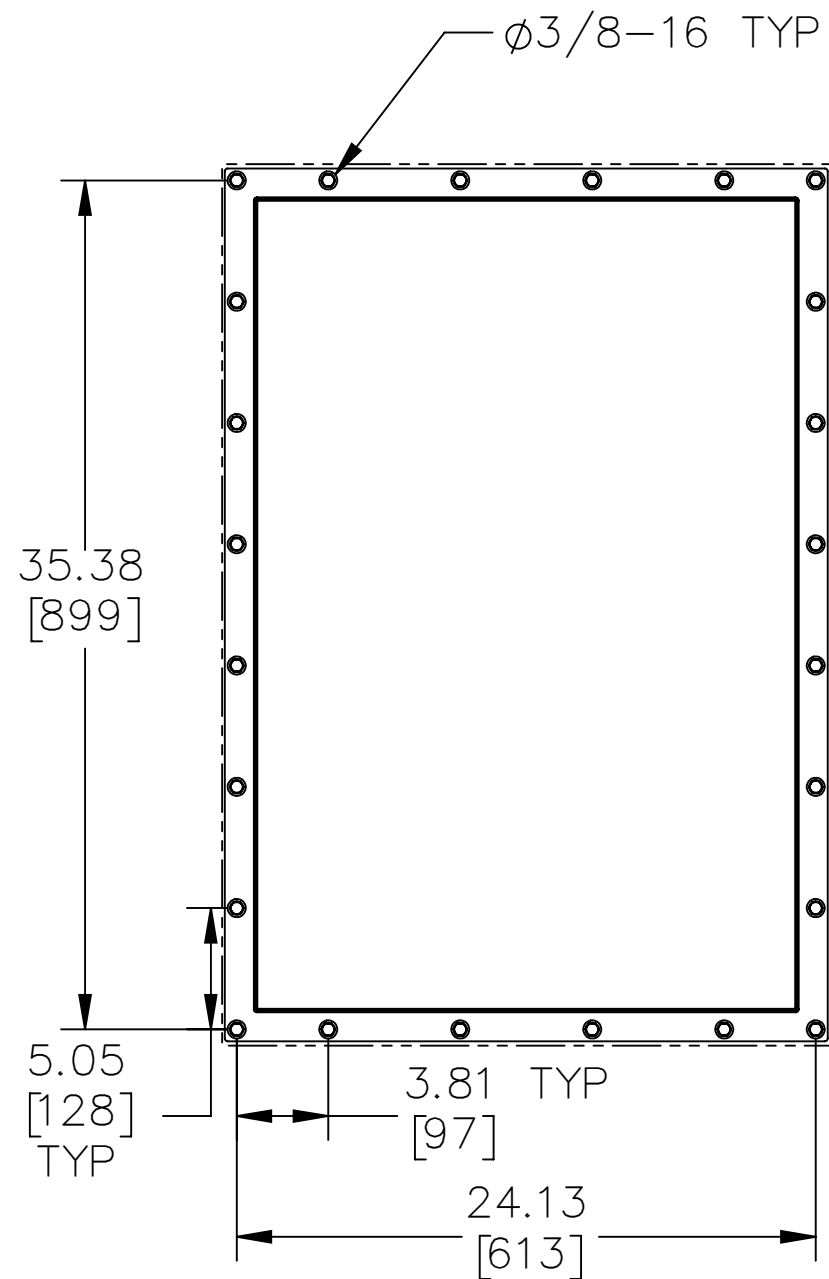
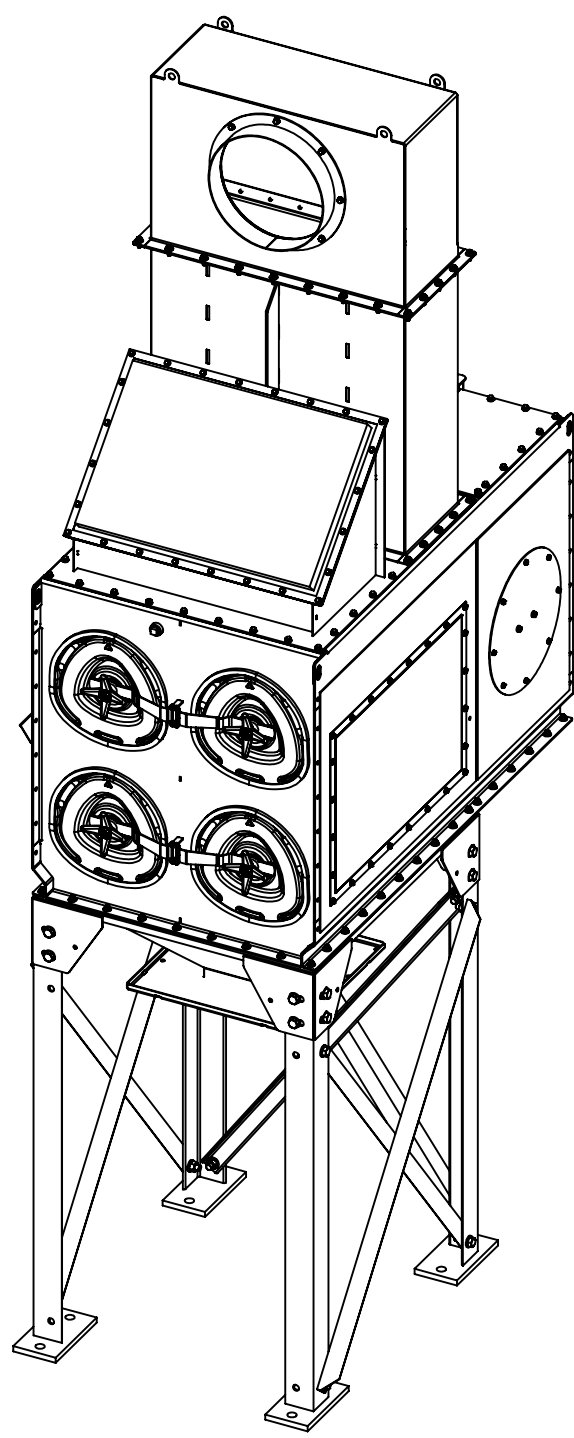
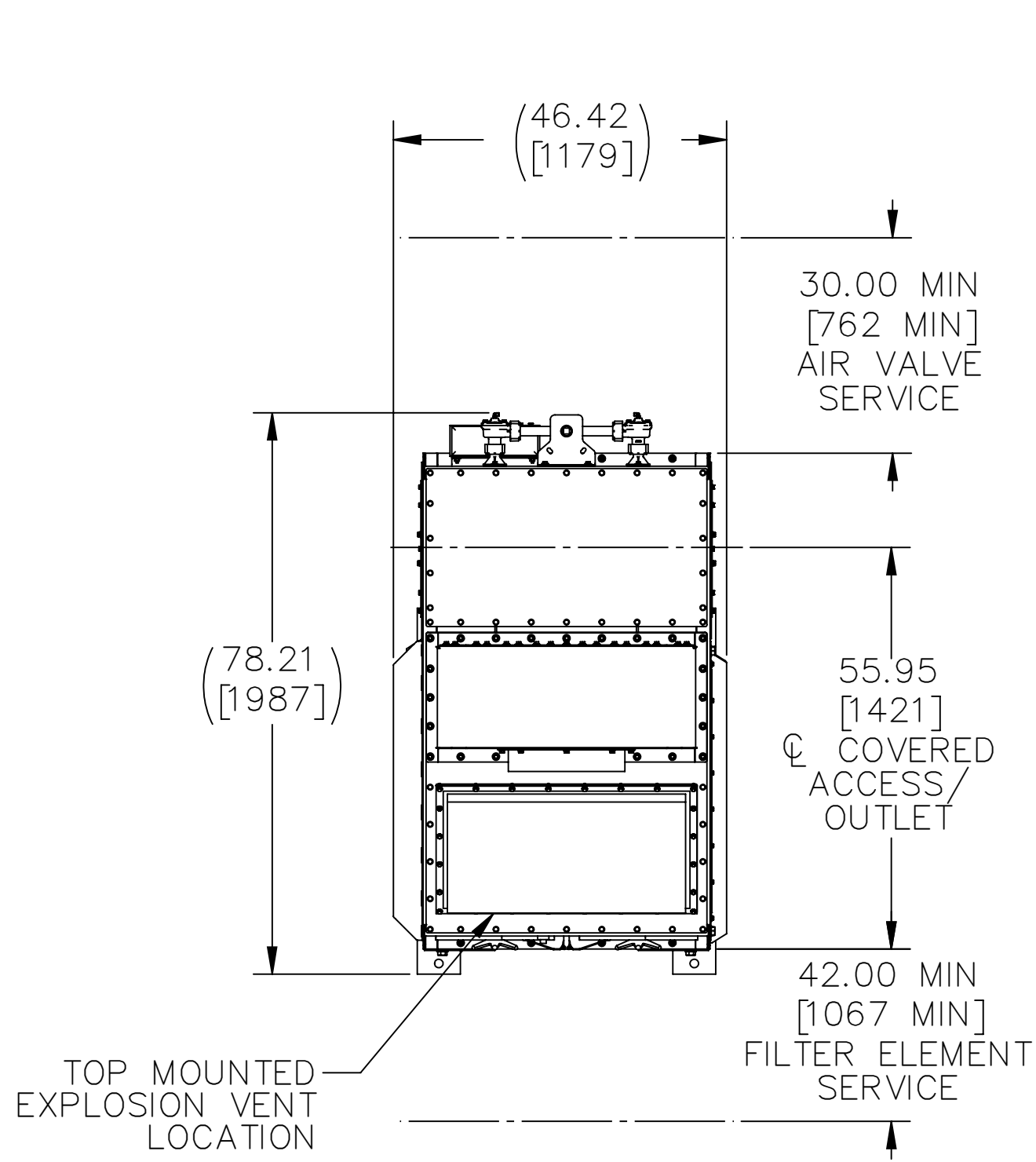
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	DATE 9/6/2014		
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	DATE 9/2/2014	SECTIONAL SIZE	OUTLINE SIZE
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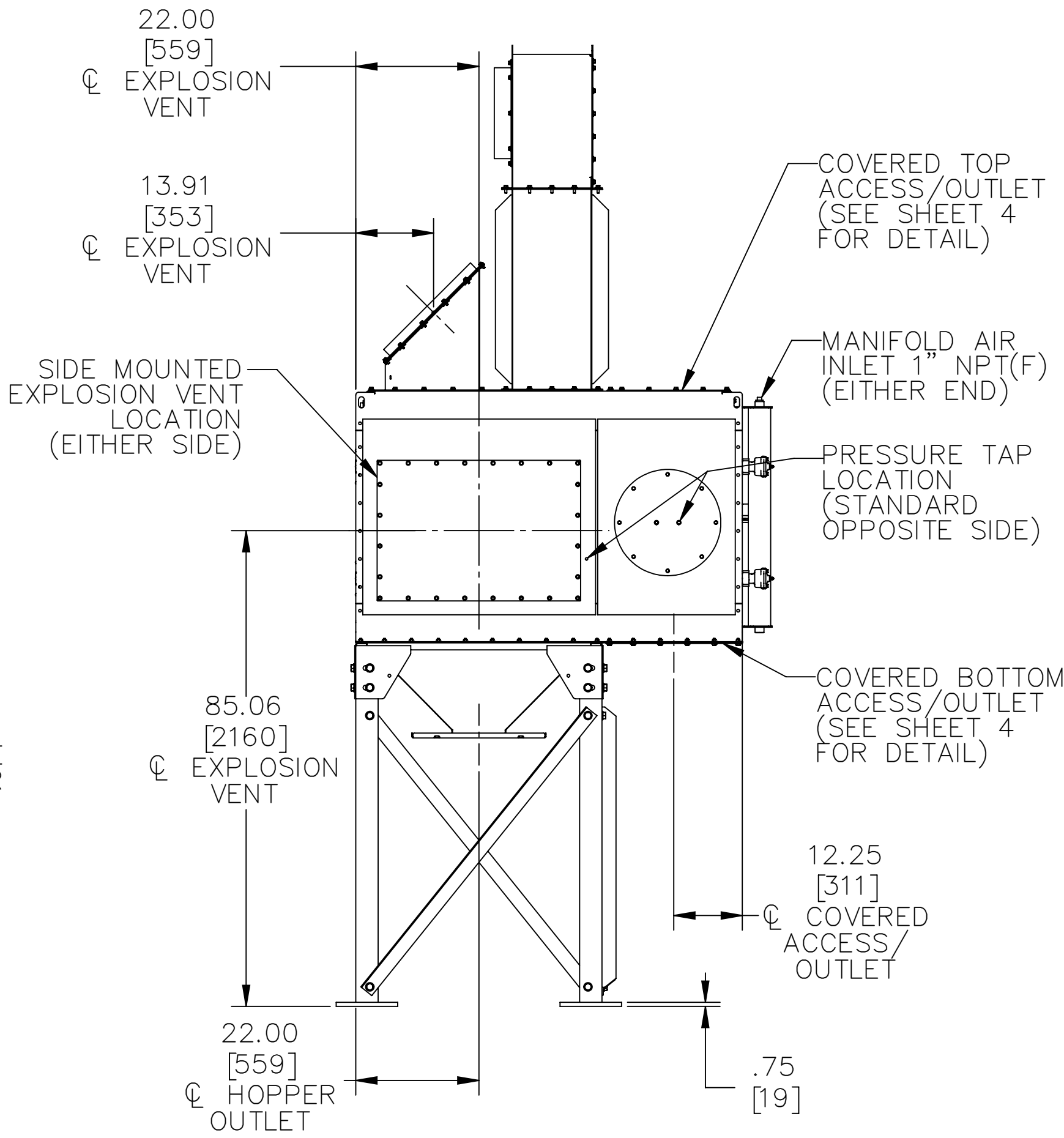
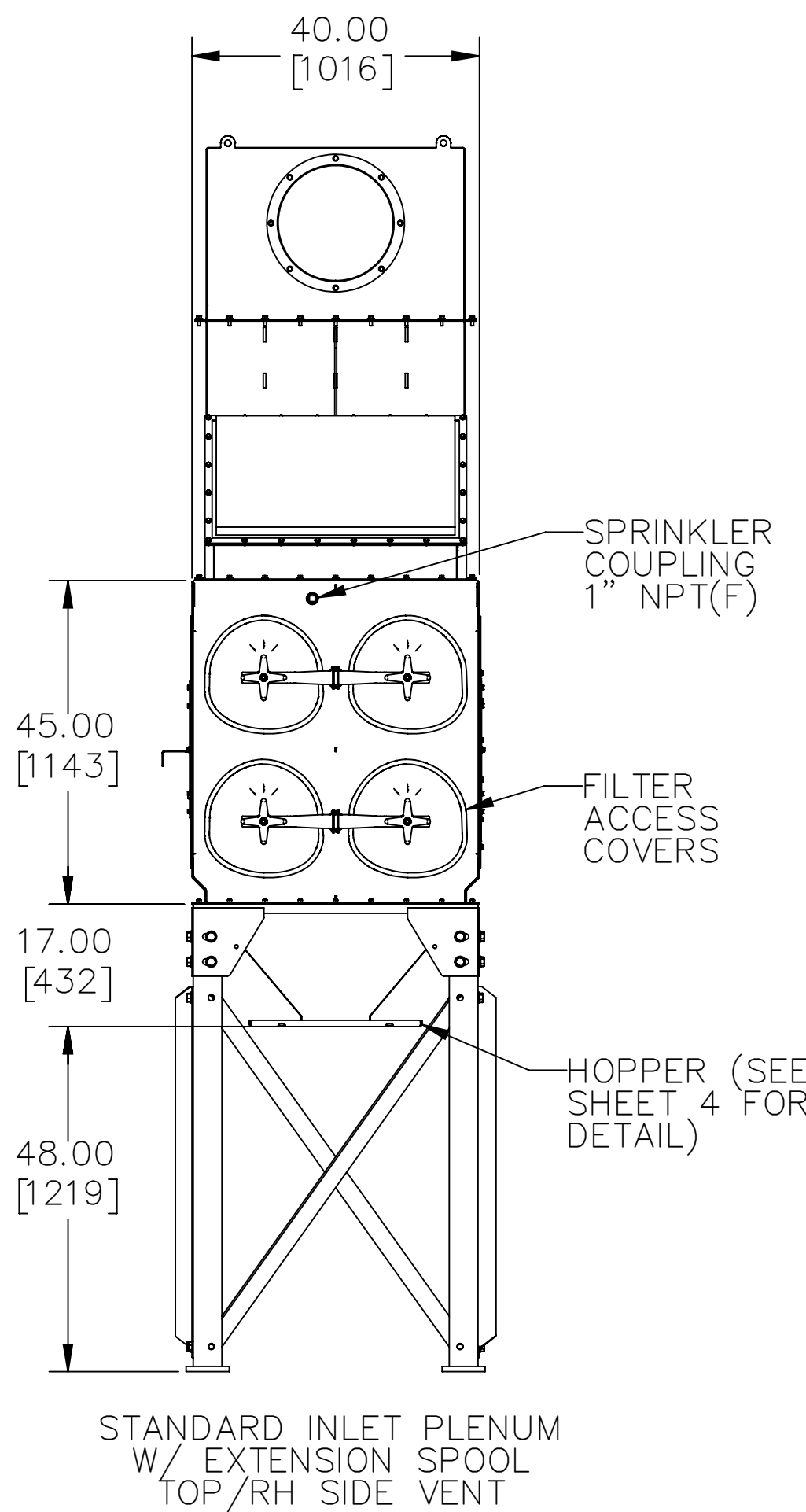


Donaldson Co., Inc.
Minneapolis, USA

IAF



24 X 36 EXPLOSION VENT MOUNTING DETAIL



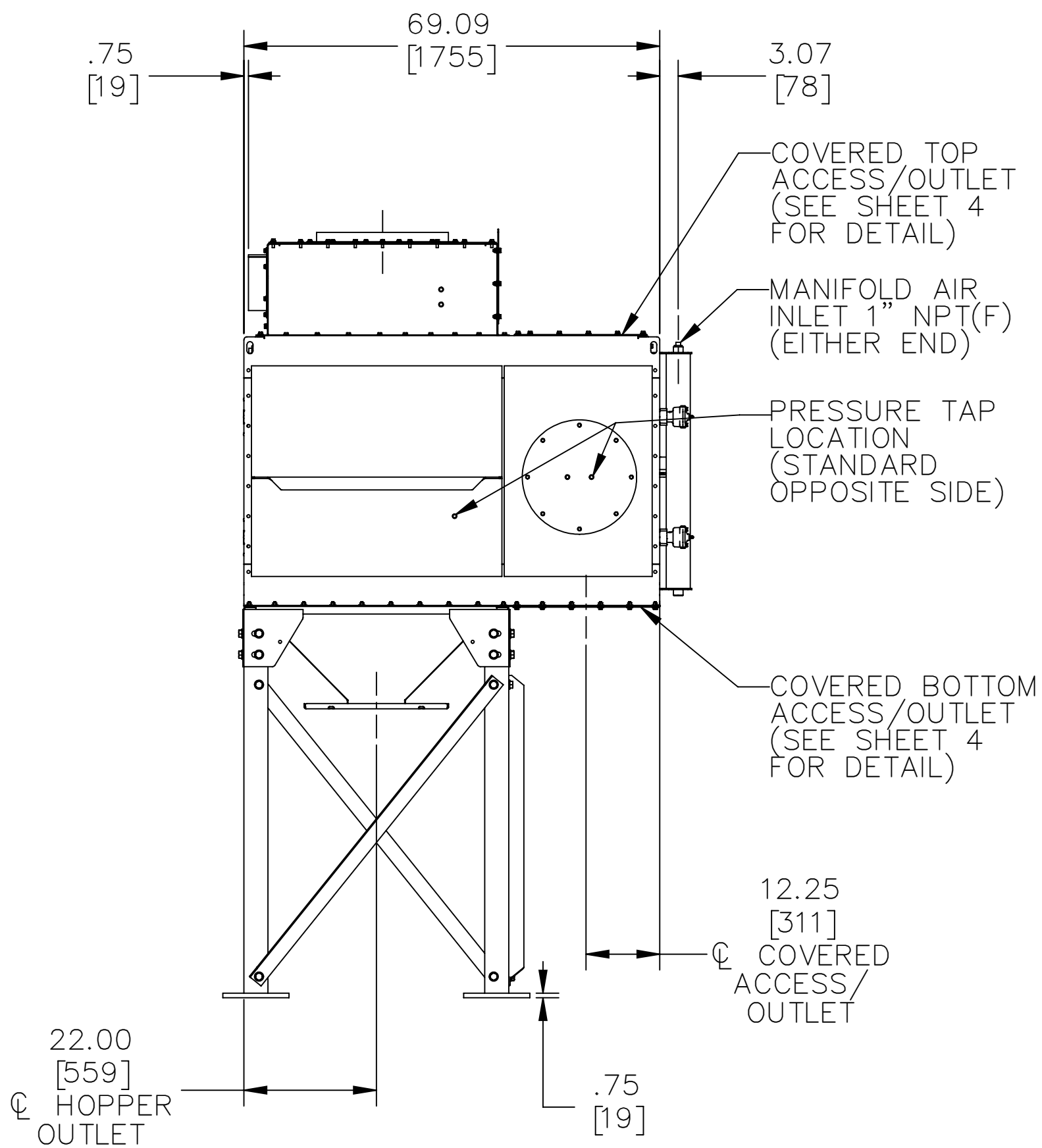
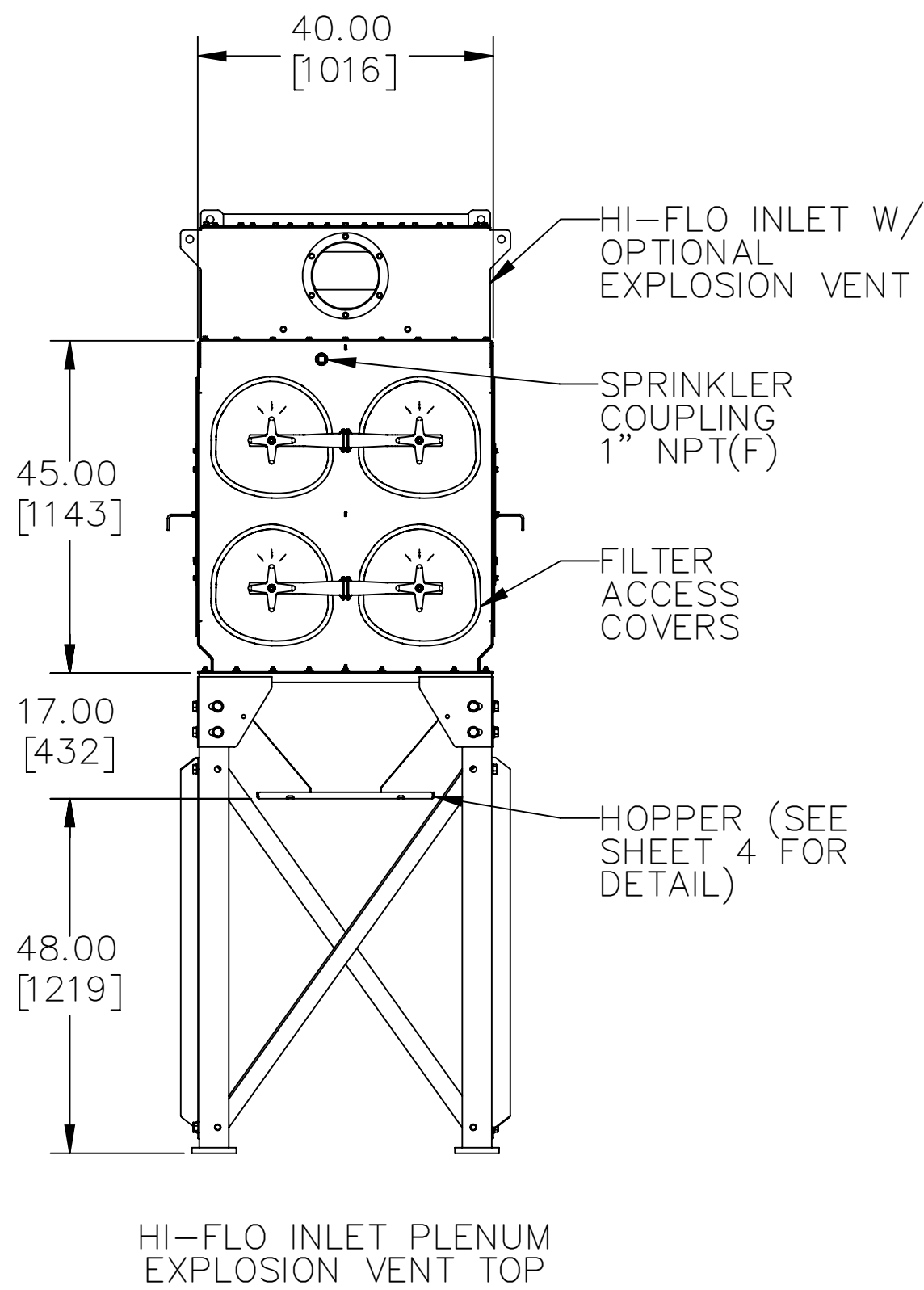
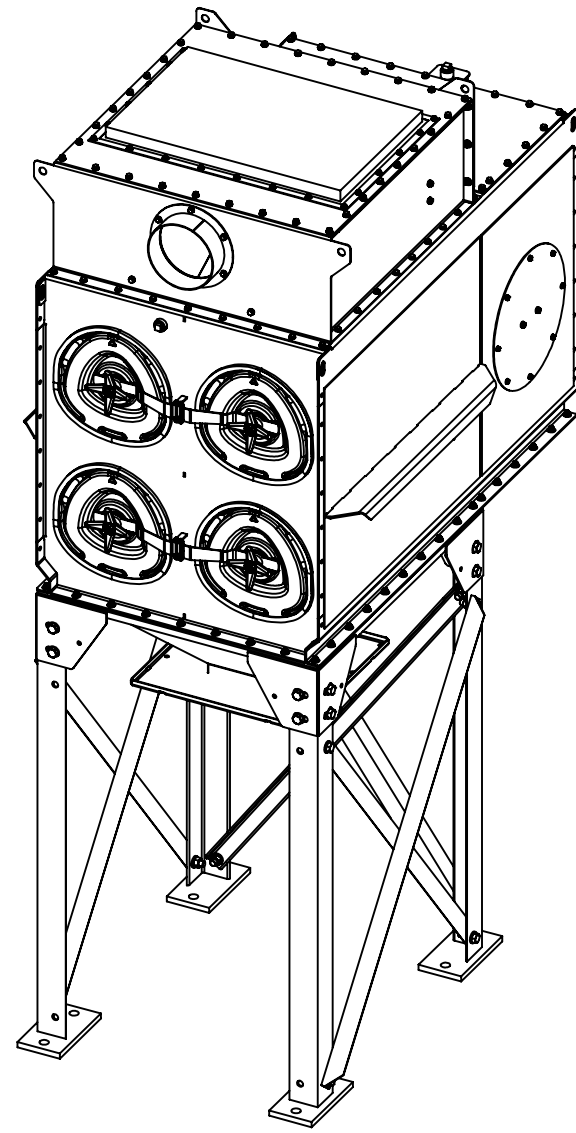
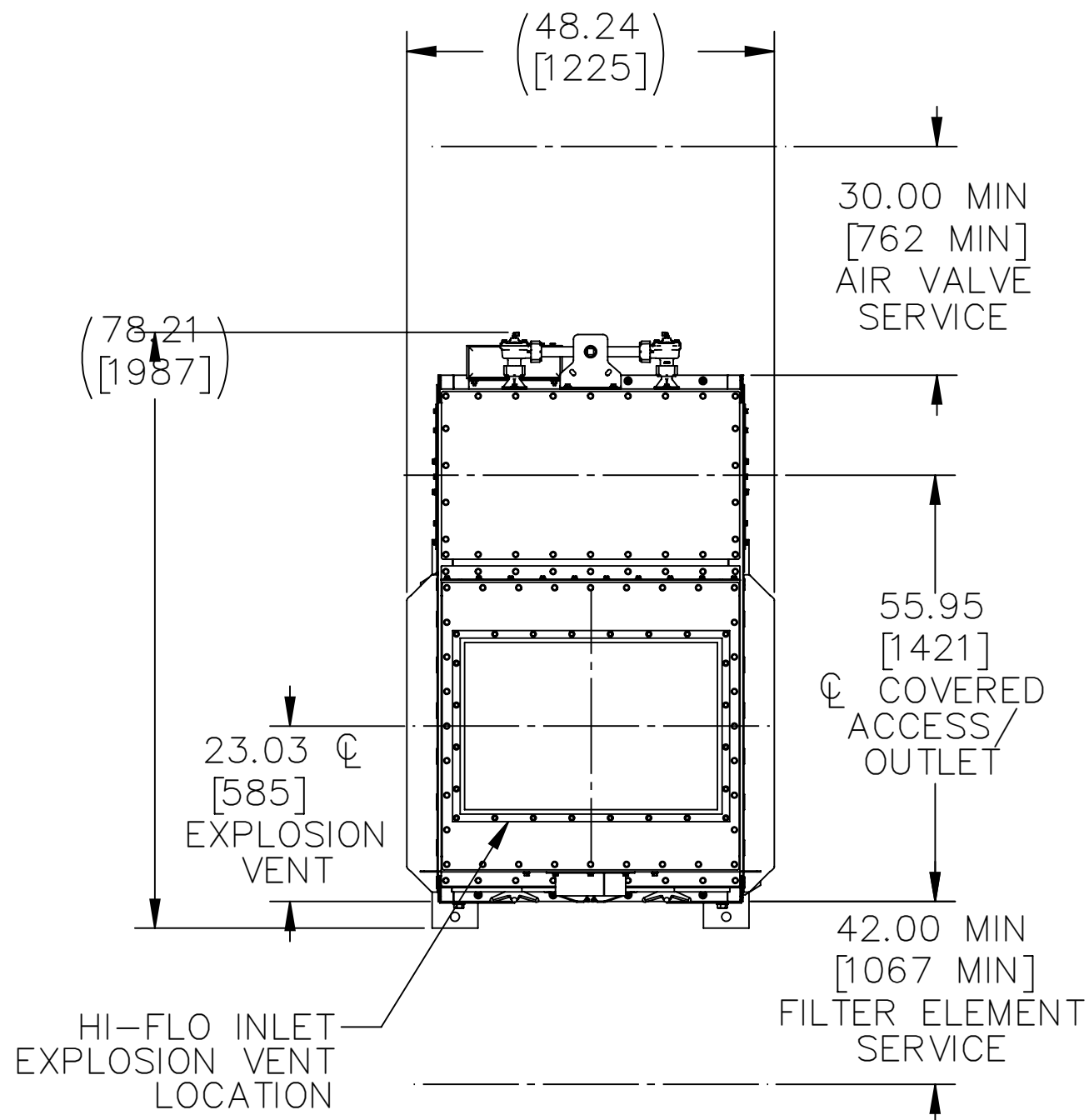
COLLECTORS WITH IEP KE-R EXPLOSION VENTS		
NOMINAL SIZE	24 X 34 [610 X 864]	34 X 46 [864 X 1168]
RELIEF AREA	4.26 SQ FT [0.40 SQ M]	8.52 SQ FT [0.79 SQ M]
NOMINAL BURST PRESSURE	1.45 PSIG [.010 BAR]	1.45 PSIG [.010 BAR]
DIRTY AIR CONFIGURATION	VENT SIZE	
	24 X 34 [610 X 864]	34 X 46 [864 X 1168]
STANDARD INLET	X	
STANDARD INLET W/ SPOOL	X	
HI-FLO INLET	X	
EDAP INLET	N/A	

- NOTE
- INLET EXTENSION SPOOL IS REQUIRED WHEN AN EXPLOSION VENT IS MOUNTED ON THE ROOF OF THE CABINET.

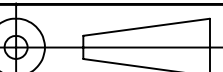
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		ANGLES ± °									
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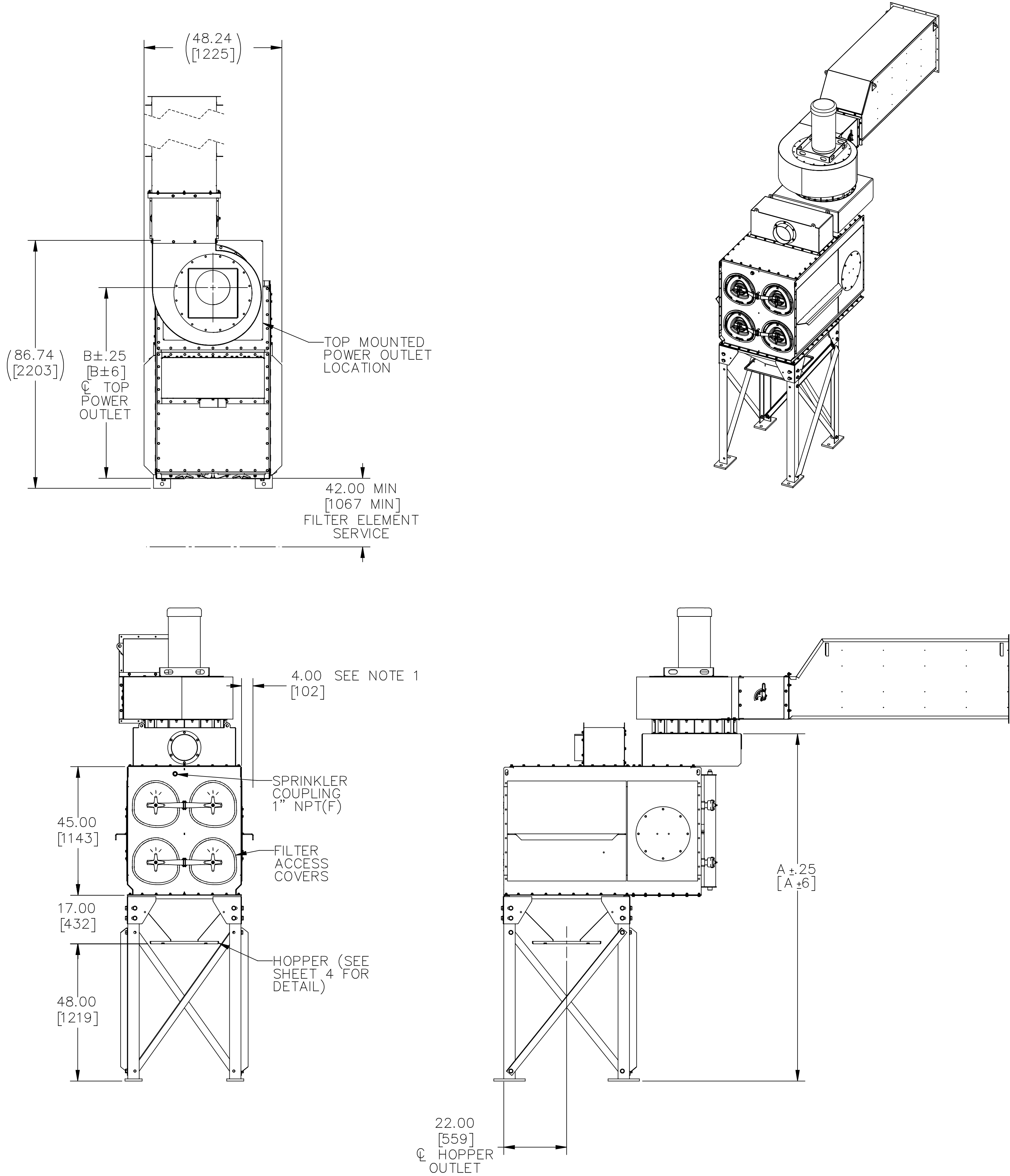
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		THIRD ANGLE PROJECTION				DESIGN CONTROL A004				DWG LOCATION A101		VERSION A					
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POWER MOUNTING SIZES/LOCATIONS		
POWER CONFIGURATION	ID	BC
3–15 HP	16.00 [406]	17.25 [438]
20–30 HP	22.44 [570]	28.50 [724]
TOP MOUNTED ADAPTER HEIGHT FROM GRADE		
POWER CONFIGURATION	A	
3–15 HP	117.52 [2985]	
20–30 HP	121.51 [3086]	
TOP MOUNTED ADAPTER HEIGHT FROM CAB FRONT		
POWER CONFIGURATION	B	
3–15 HP	65.02 [1652]	
20–30 HP	66.73 [1695]	

- NOTE
- 20–30 HP SIDE MOUNTED POWER ADAPTER STANDS OFF THE SIDE OF THE CABINET. THE 3–15 HP POWER MOUNTS DIRECTLY TO THE SIDE PANEL OF THE CABINET.

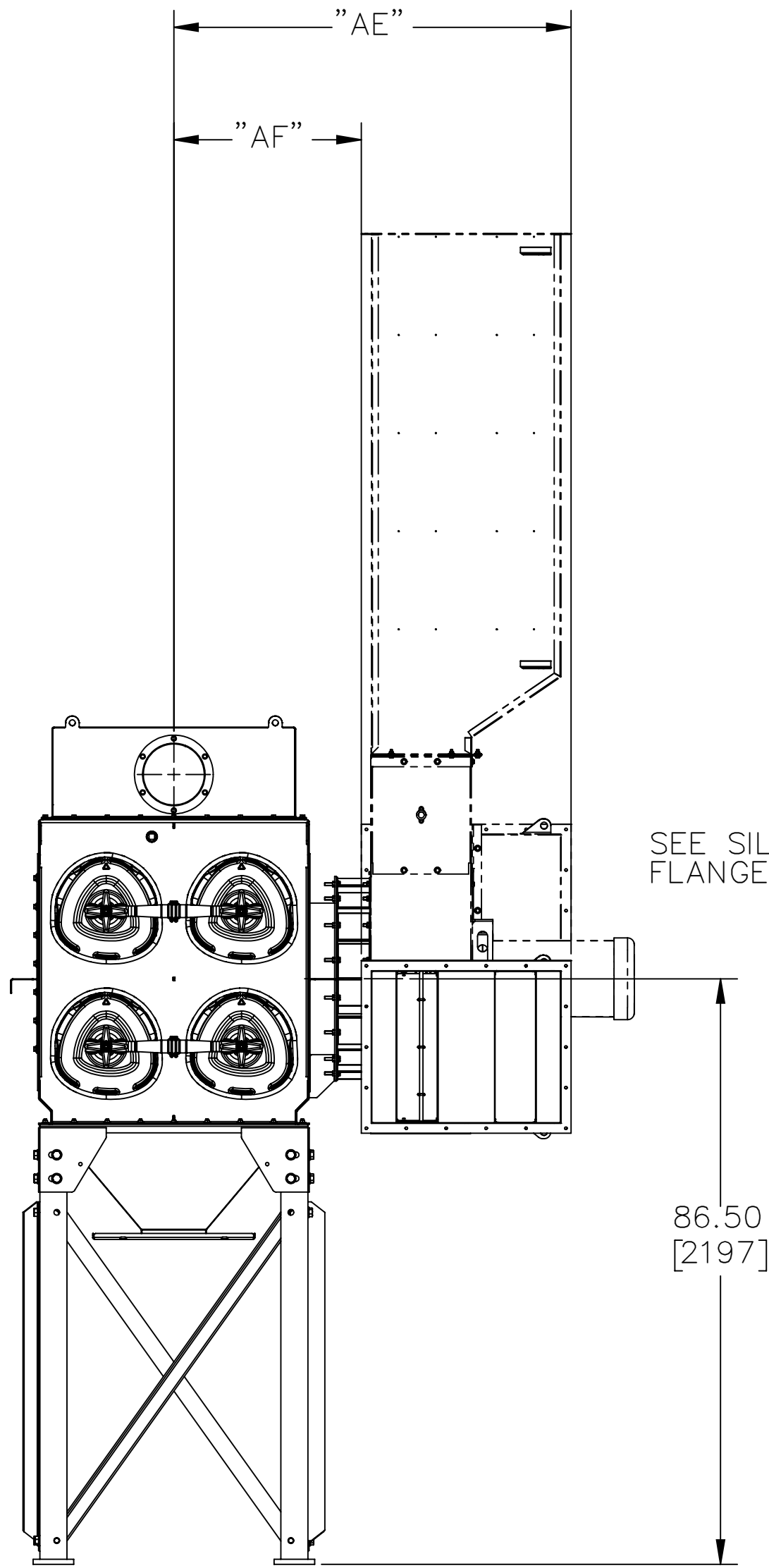
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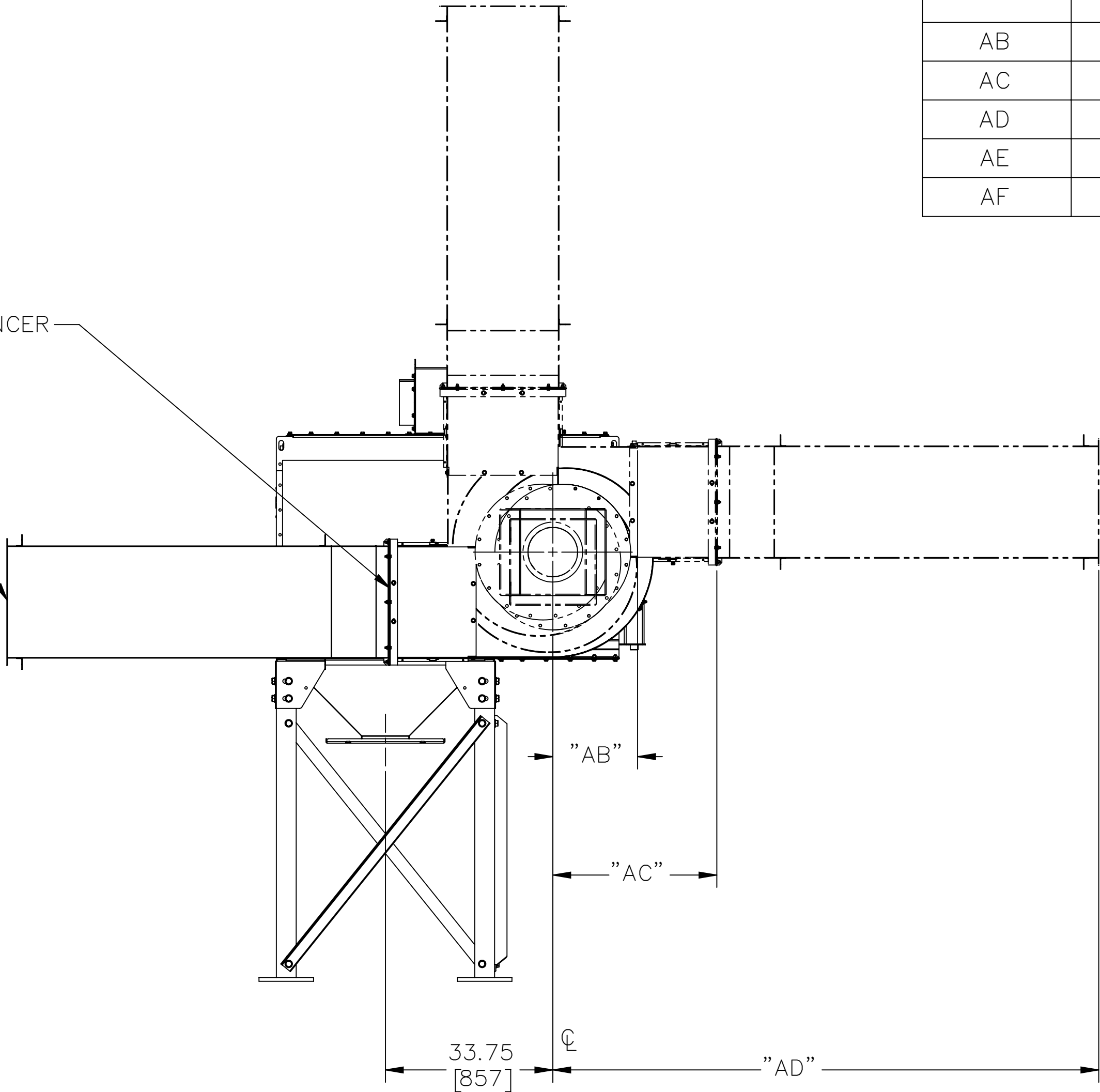


FRONT VIEW

NOTE: ANY REQUIRED SILENCER
SUPPORT NOT SHOWN FOR CLARITY

SEE FAN EXIT
DAMPER AND SILENCER
FLANGE (DETAIL J)

SEE SILENCER EXIT
FLANGE (DETAIL H)



SIDE VIEW

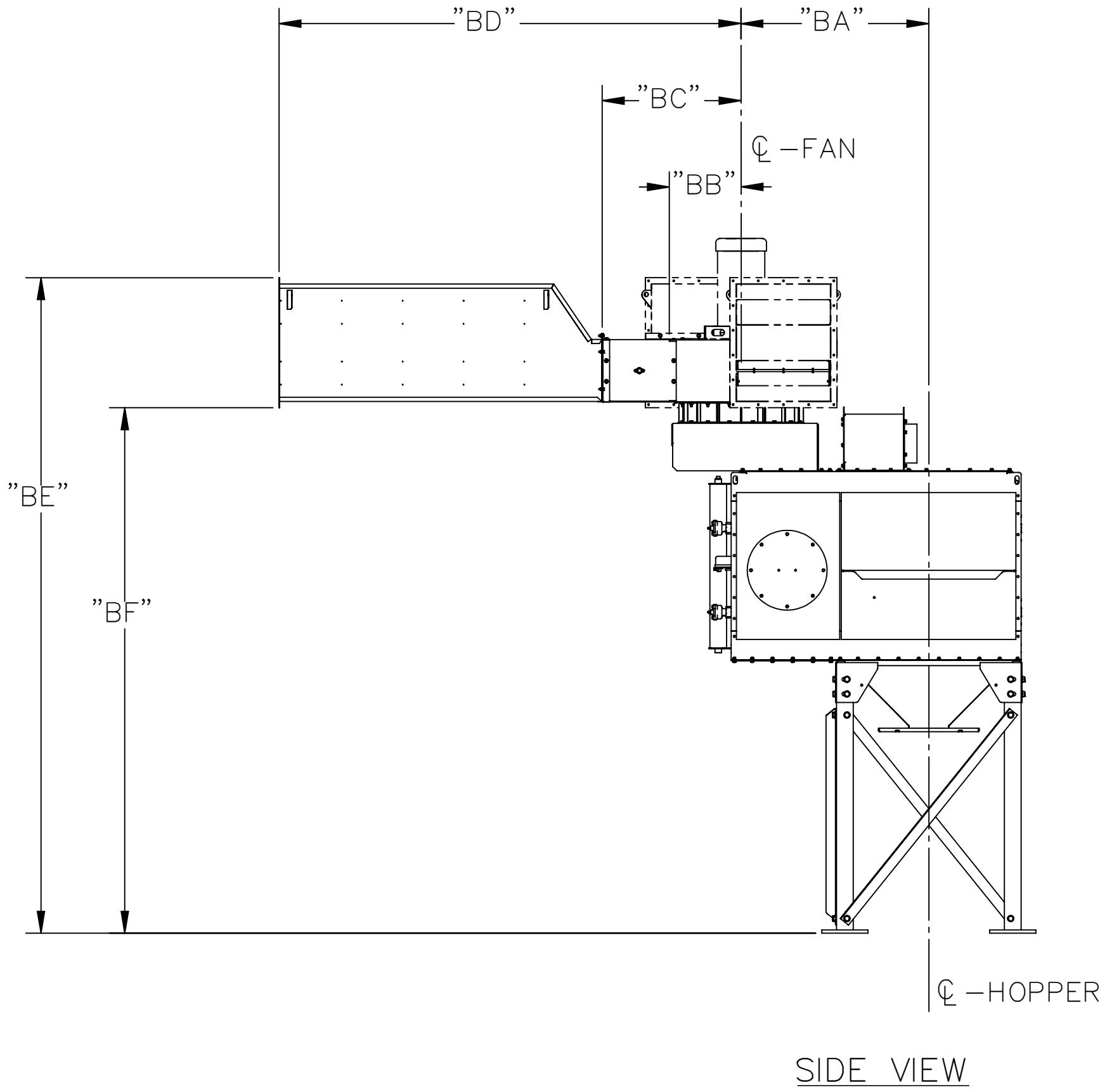
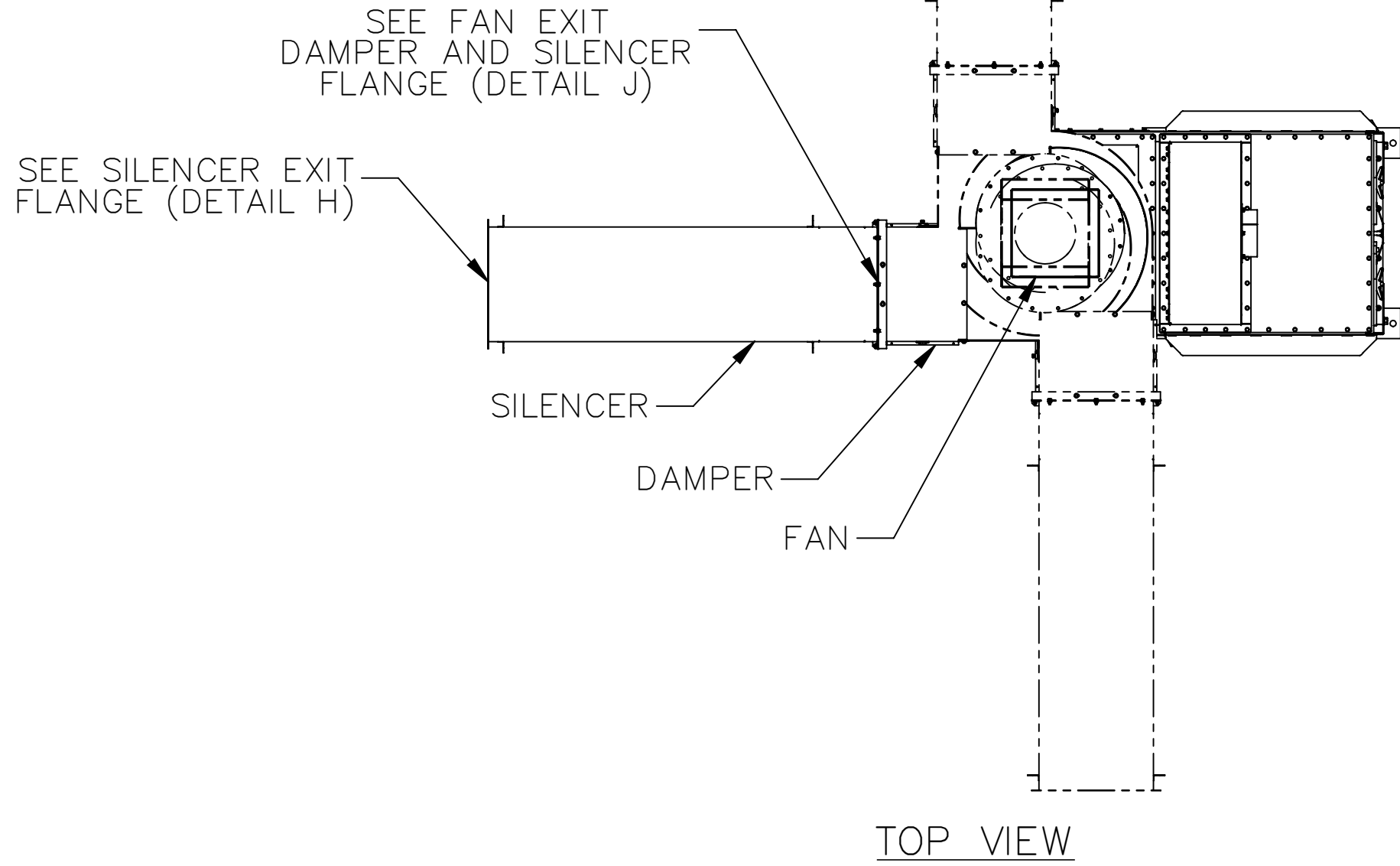
OPTIONAL SIDE MOUNT
FAN/DAMPER/
HIGH PERFORMANCE SILENCER
(RIGHT SIDE MOUNT SHOWN)

FAN & ACCESSORY DIMENSION TABLE								
DIMENSION	60 HZ TBI FAN							
	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP
AB	11.71	11.71	11.71	11.71	13.81	17.09	17.09	17.09
AC	21.56	21.56	22.93	24.25	26.85	31.81	33.00	33.00
AD	87.56	87.56	88.93	90.25	103.85	108.81	110.00	110.00
AE	42.32	42.32	42.32	42.32	52.72	56.59	58.59	58.59
AF	23.72	23.72	23.72	23.72	23.72	27.59	27.59	27.59
FAN & ACCESSORY METRIC DIMENSION TABLE								
DIMENSION	60 HZ TBI FAN							
	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP
AB	297	297	297	297	351	434	434	434
AC	548	548	582	616	682	808	838	838
AD	2224	2224	2259	2292	2638	2764	2794	2794
AE	1075	1075	1075	1075	1339	1437	1488	1488
AF	603	603	603	603	603	701	701	701

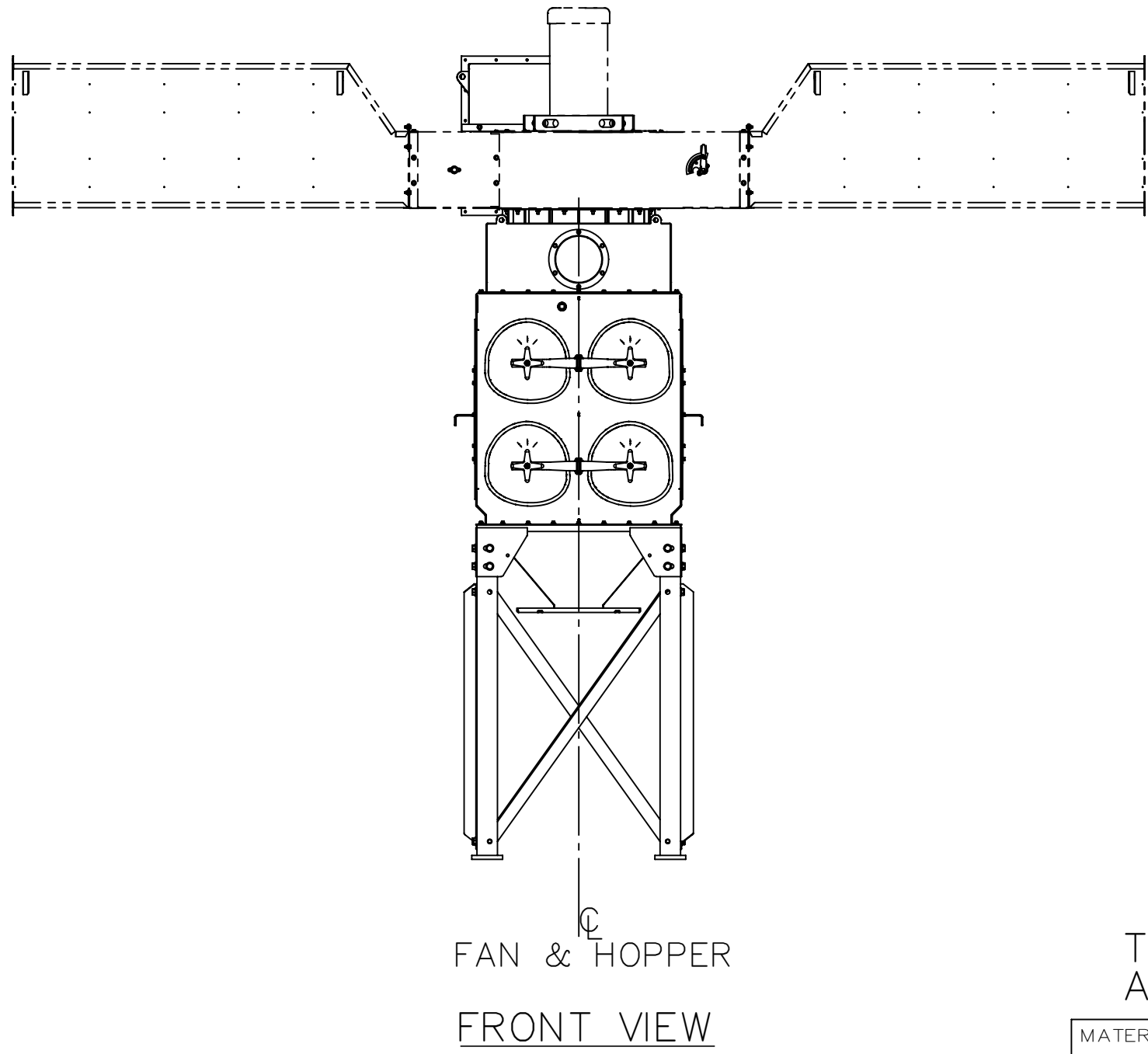
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MATERIAL			RELEASE NO. 2014A01487		TITLE DFE 2-4, SPECIFICATION DRAWING			 Donaldson. Donaldson Co., Inc. Minneapolis, USA IAF			
			DATE 9/6/2014								
			EXP. DATE								
			DWN J FOLINE								
REFERENCE			DATE 9/6/2014		NUMBER DFE AG8249301						
			CHK T RAETHER								
			DATE 9/6/2014		SCALE NONE		SHEET 8 OF 10			REVISION	
			APVD T RAETHER		C/C		SW/CADD			8	
PREVIOUS DRAWING NO.			DATE 9/2/2014		SECTIONAL SIZE		OUTLINE SIZE				
DO NOT SCALE	TOLERANCES UNLESS OTHERWISE SPECIFIED	2 PL ±	THIRD ANGLE PROJECTION		DESIGN CONTROL A004		DWG LOCATION A101			VERSION A	
		3 PL ±			COPYRIGHT © DONALDSON COMPANY, INC.				L		
	ANGLES ± °										

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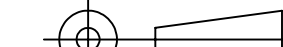
NOTE: ANY REQUIRED SILENCER SUPPORT NOT SHOWN FOR CLARITY



FAN & ACCESSORY DIMENSION TABLE								
DIMENSION	60 HZ TBI FAN							
	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP
BA	43.57	43.57	43.57	43.57	43.57	46.87	46.87	46.87
BB	11.71	11.71	11.71	11.71	13.81	17.09	17.09	17.09
BC	21.56	21.56	22.93	24.25	26.85	31.81	33.00	33.00
BD	87.56	87.56	88.93	90.25	103.85	108.81	110.00	110.00
BE	139.68	139.68	139.68	139.68	150.08	152.09	156.09	156.09
BF	121.17	121.08	121.08	121.08	121.08	125.09	125.09	125.09
FAN & ACCESSORY METRIC DIMENSION TABLE								
DIMENSION	60 HZ TBI FAN							
	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP
BA	1107	1107	1107	1107	1107	1191	1191	1191
BB	297	297	297	297	351	434	434	434
BC	548	548	582	616	682	808	838	838
BD	2224	2224	2259	2292	2638	2764	2794	2794
BE	3548	3548	3548	3548	3812	3863	3965	3965
BF	3078	3075	3075	3075	3075	3177	3177	3177

OPTIONAL TOP MOUNT
FAN/DAMPER/HIGH PERFORMANCE SILENCER

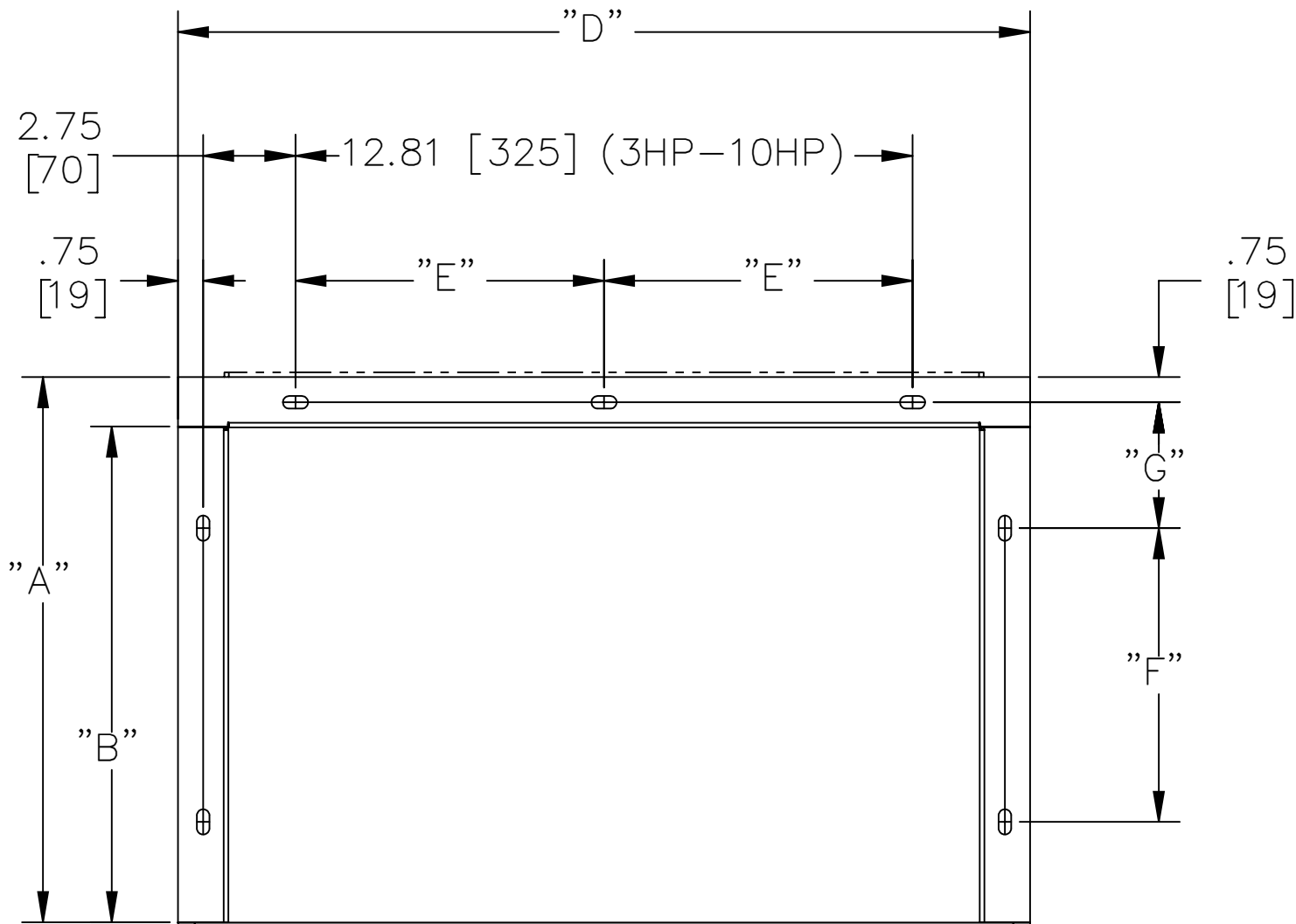
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DATE 9/6/2014															
CHK T RAETHER															
DATE 9/6/2014		SCALE NONE		SHEET 9 OF 10		REVISION									
REFERENCE		DATE 9/6/2014		C/C		SW/CADD			8 IAF						
		APVD T RAETHER													
PREVIOUS DRAWING NO.		DATE 9/2/2014		SECTIONAL SIZE		OUTLINE SIZE									
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				3 PL ±											
		ANGLES ± °													
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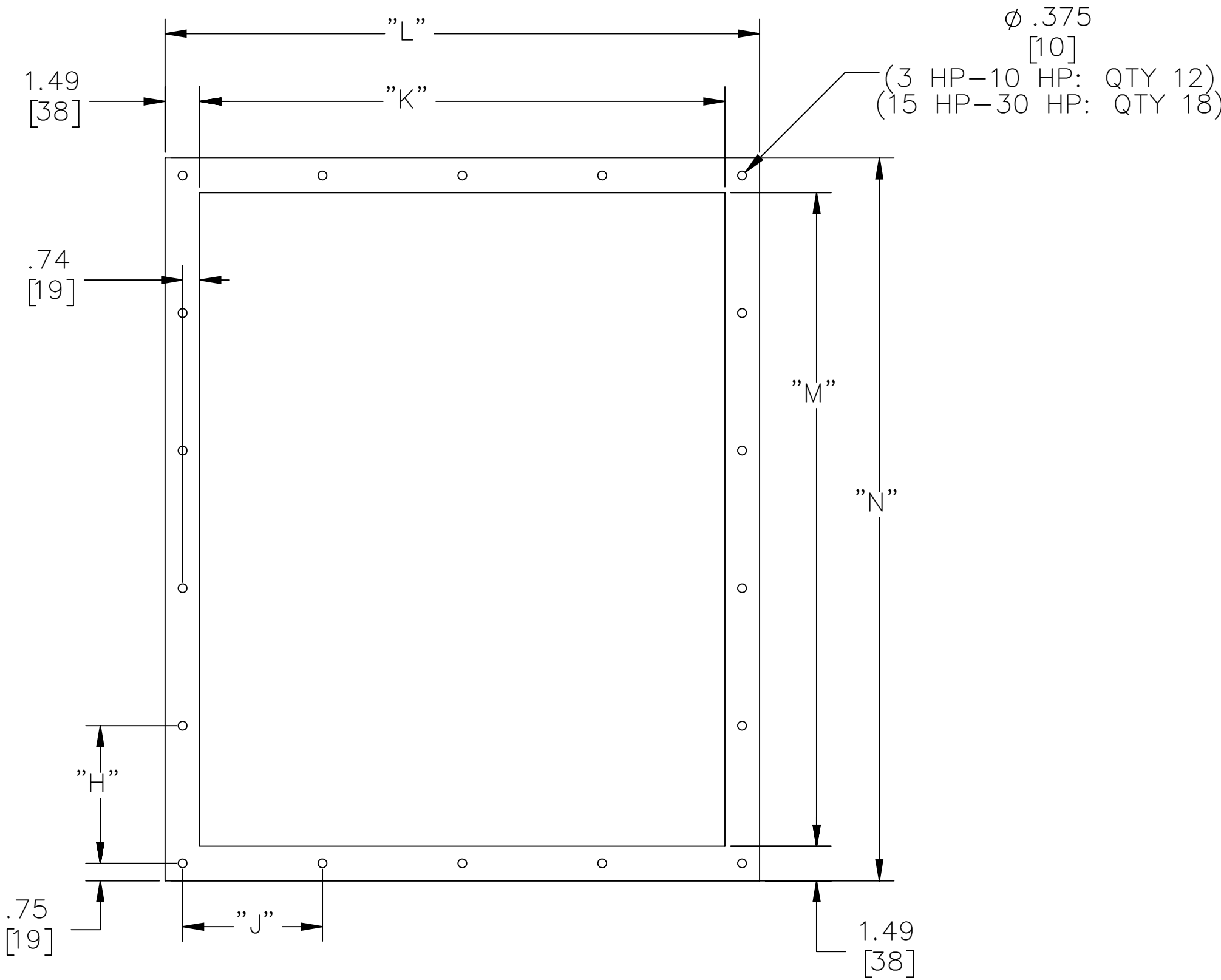
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DETAIL J
FAN EXIT, DAMPER AND
SILENCER INLET FLANGE



DETAIL H
SILENCER EXIT FLANGE

ACCESSORY DIMENSION TABLE								
DIMENSION	60 HZ TBI FAN							
	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP
A	9.44	10.19	11.56	12.88	13.38	15.06	16.25	16.25
B	7.94	8.69	10.06	10.56	11.88	13.56	14.75	14.75
C	16.81	16.81	16.81	16.81	20.38	20.38	22.38	22.38
D	19.81	19.81	19.81	19.81	23.38	23.38	25.38	25.38
E	—	—	—	—	8.19	8.19	9.19	9.19
F	3.94	4.69	6.06	7.38	7.88	8.56	8.75	8.75
G	2.75	2.75	2.75	2.75	2.75	3.25	3.75	3.75
H	5.70	5.70	5.70	5.70	5.50	5.50	5.90	5.90
J	6.15	6.15	6.15	6.15	5.50	5.50	6.00	6.00
K	16.94	16.94	16.94	16.94	20.50	20.50	22.50	22.50
L	19.94	19.94	19.94	19.94	23.50	23.50	25.50	25.50
M	15.60	15.60	15.60	15.60	26.00	26.00	28.00	28.00
N	18.60	18.60	18.60	18.60	29.00	29.00	31.00	31.00

ACCESSORY METRIC DIMENSION TABLE								
DIMENSION	60 HZ TBI FAN							
	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP
A	240	259	294	327	340	383	413	413
B	202	221	256	268	302	344	375	375
C	427	427	427	427	518	518	568	568
D	503	503	503	503	594	594	645	645
E	—	—	—	—	208	208	233	233
F	100	119	154	187	200	217	222	222
G	70	70	70	70	70	83	95	95
H	145	145	145	145	140	140	150	150
J	156	156	156	156	140	140	152	152
K	430	430	430	430	521	521	572	572
L	506	506	506	506	597	597	648	648
M	396	396	396	396	660	660	711	711
N	472	472	472	472	737	737	787	787

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			CHK T RAETHER			SCALE NONE						SHEET 10 of 10		REVISION 8				
			DATE 9/6/2014															
PREVIOUS DRAWING NO.			APVD T RAETHER			C/C SW/CADD						DESIGN CONTROL A004			DWG LOCATION A101		VERSION A	
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