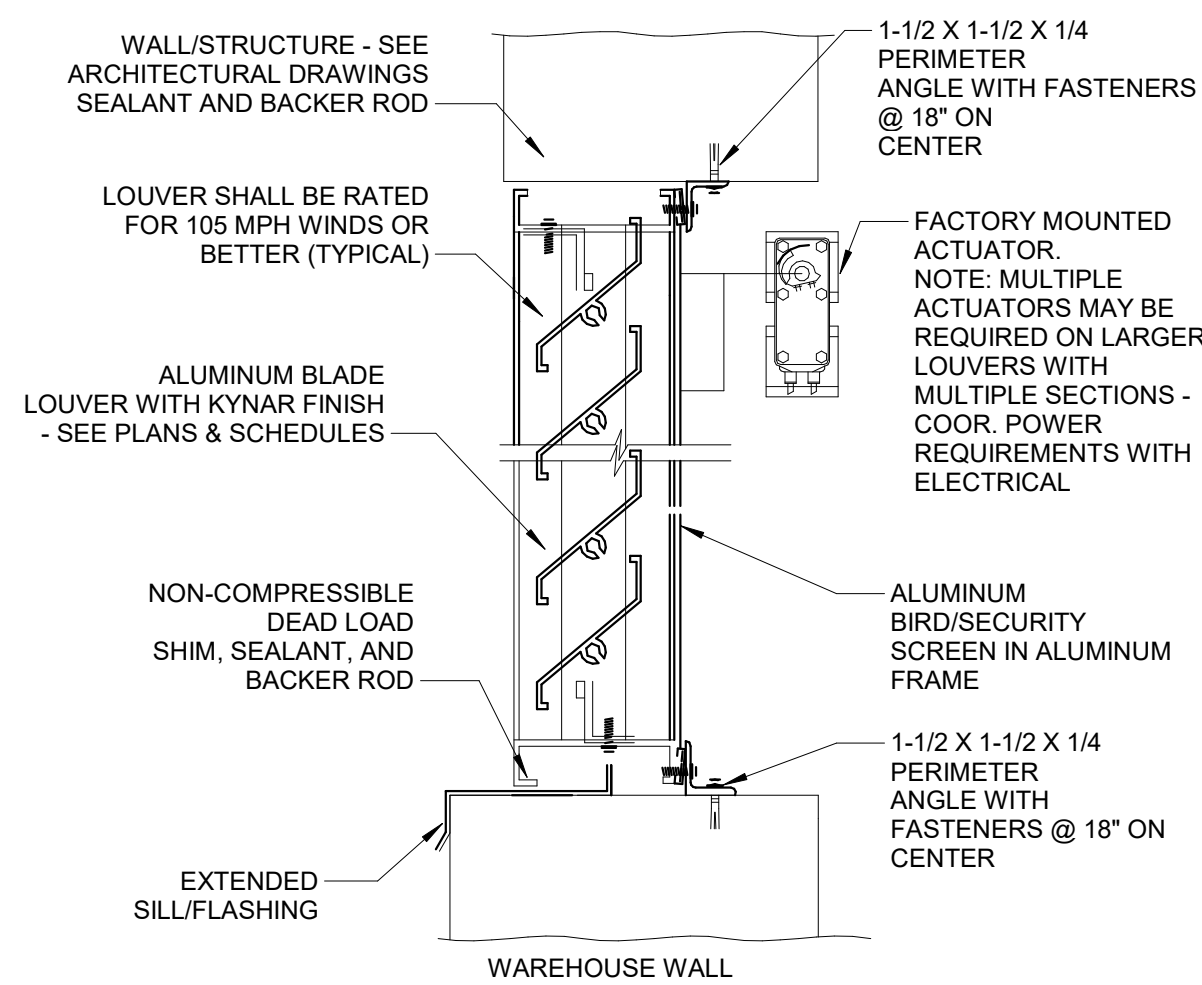
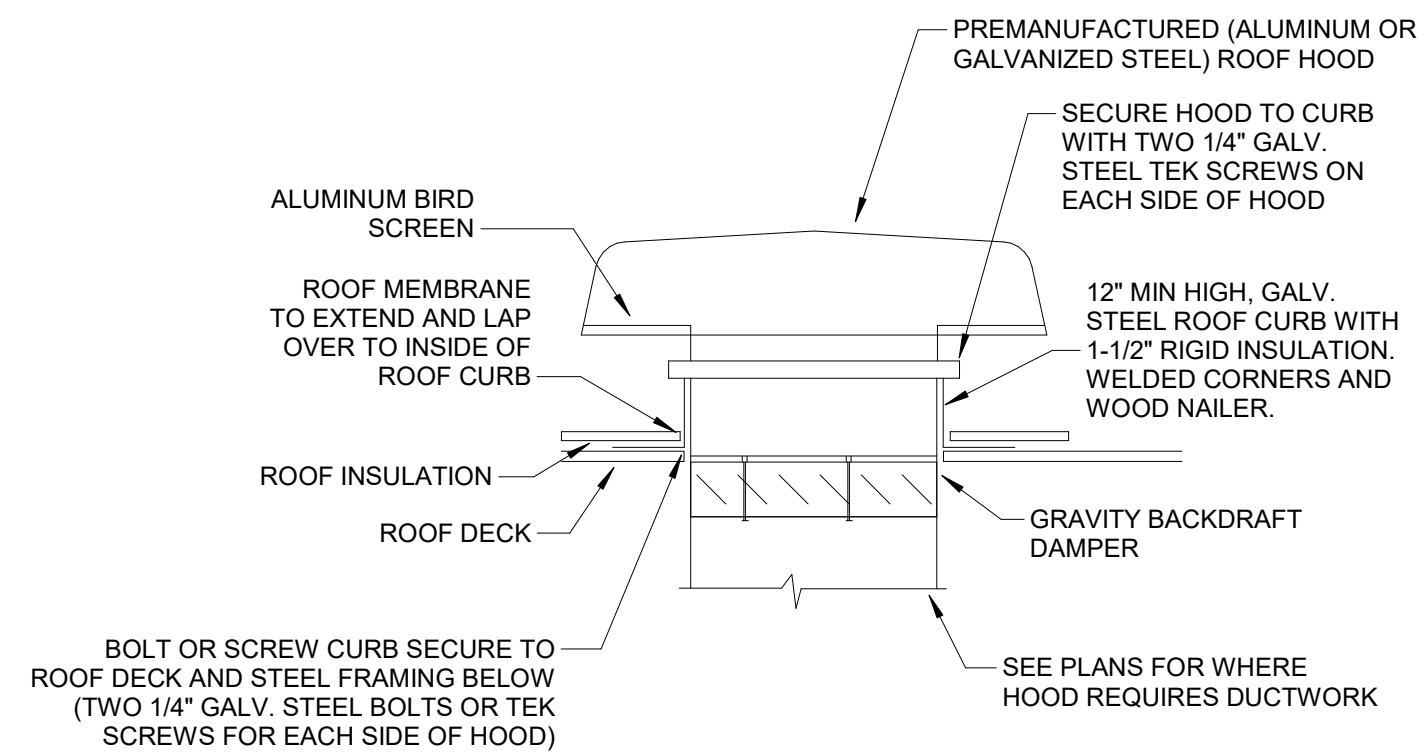
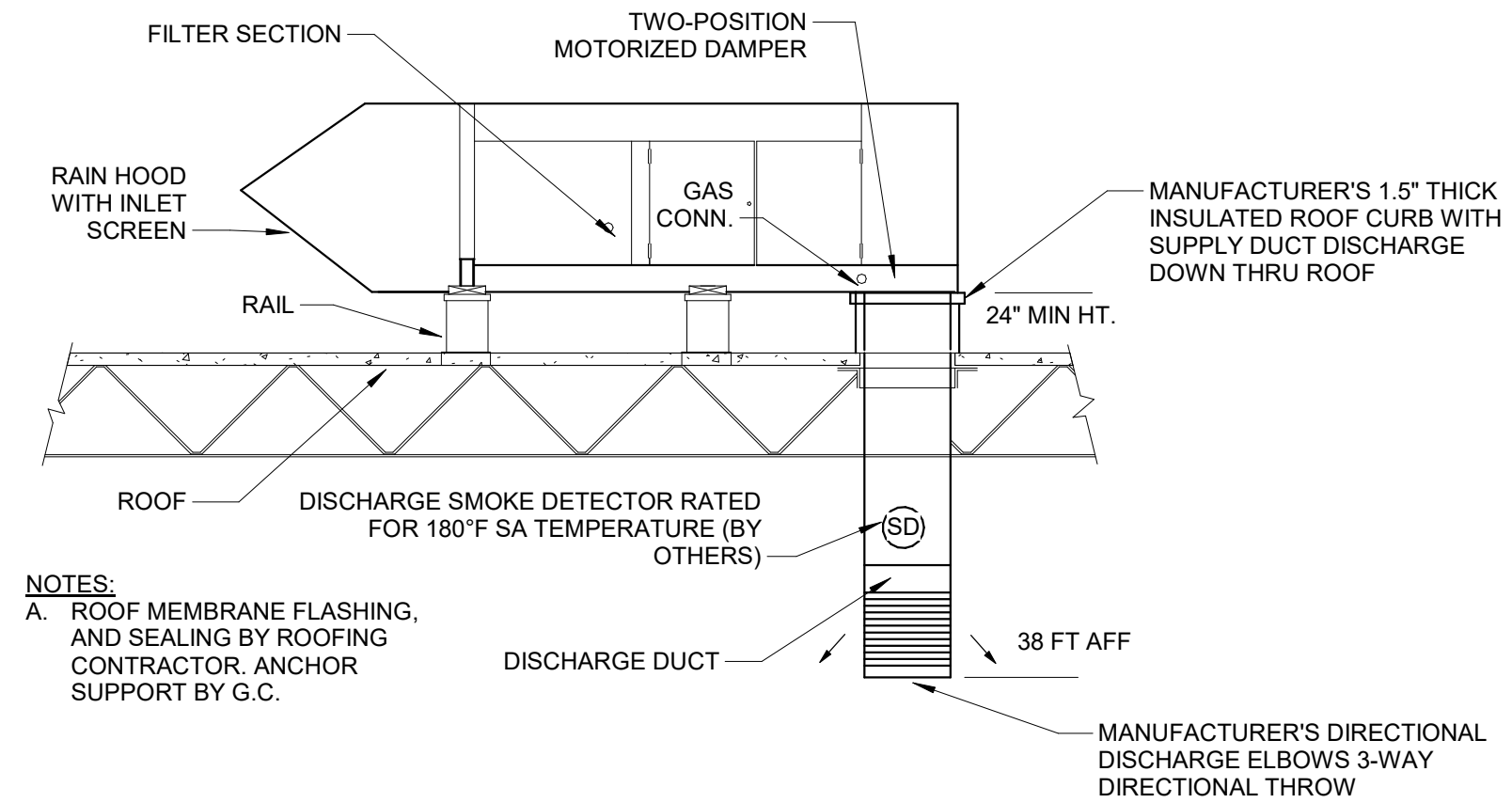




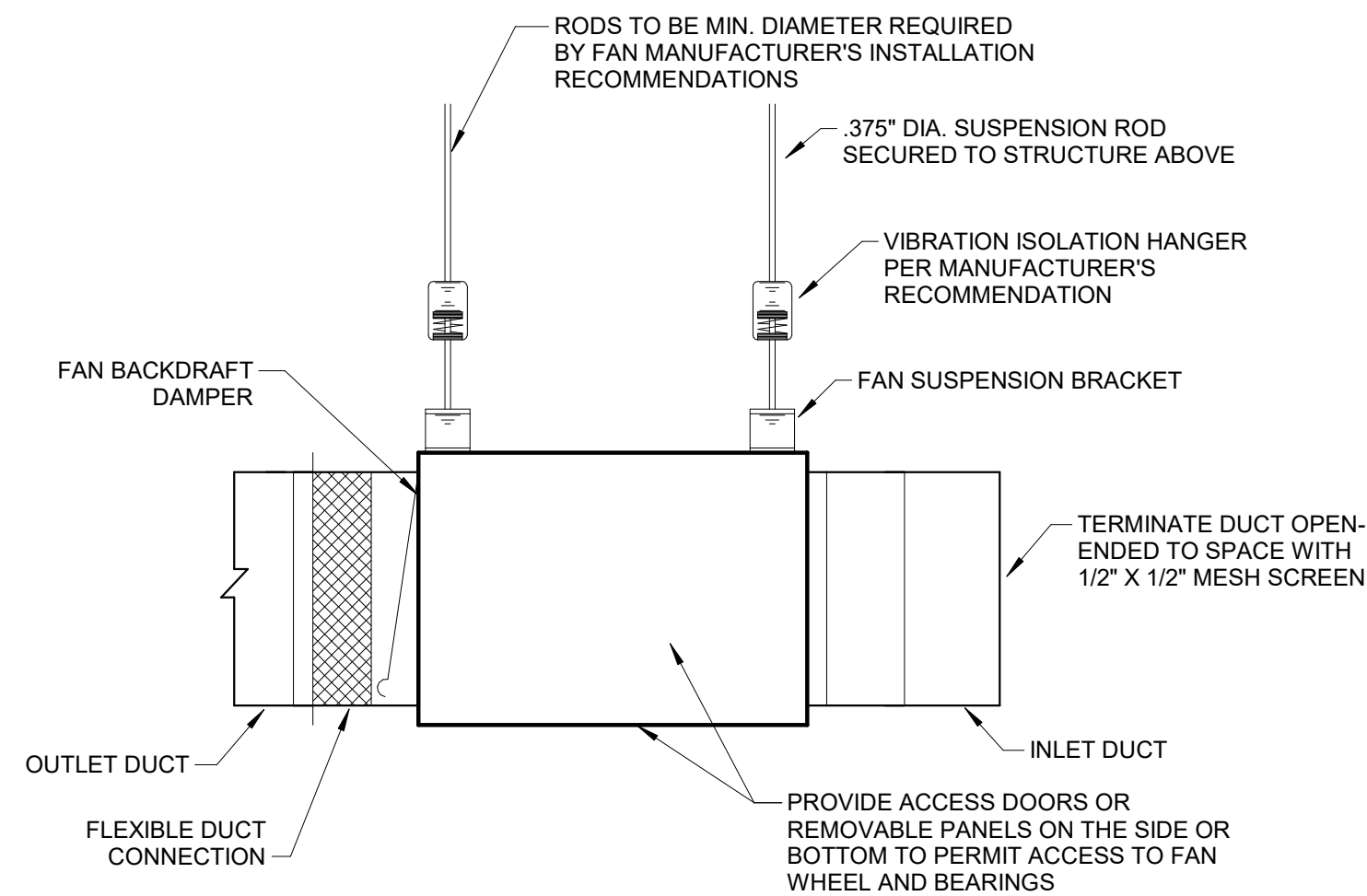
7 INTAKE LOUVER DETAIL



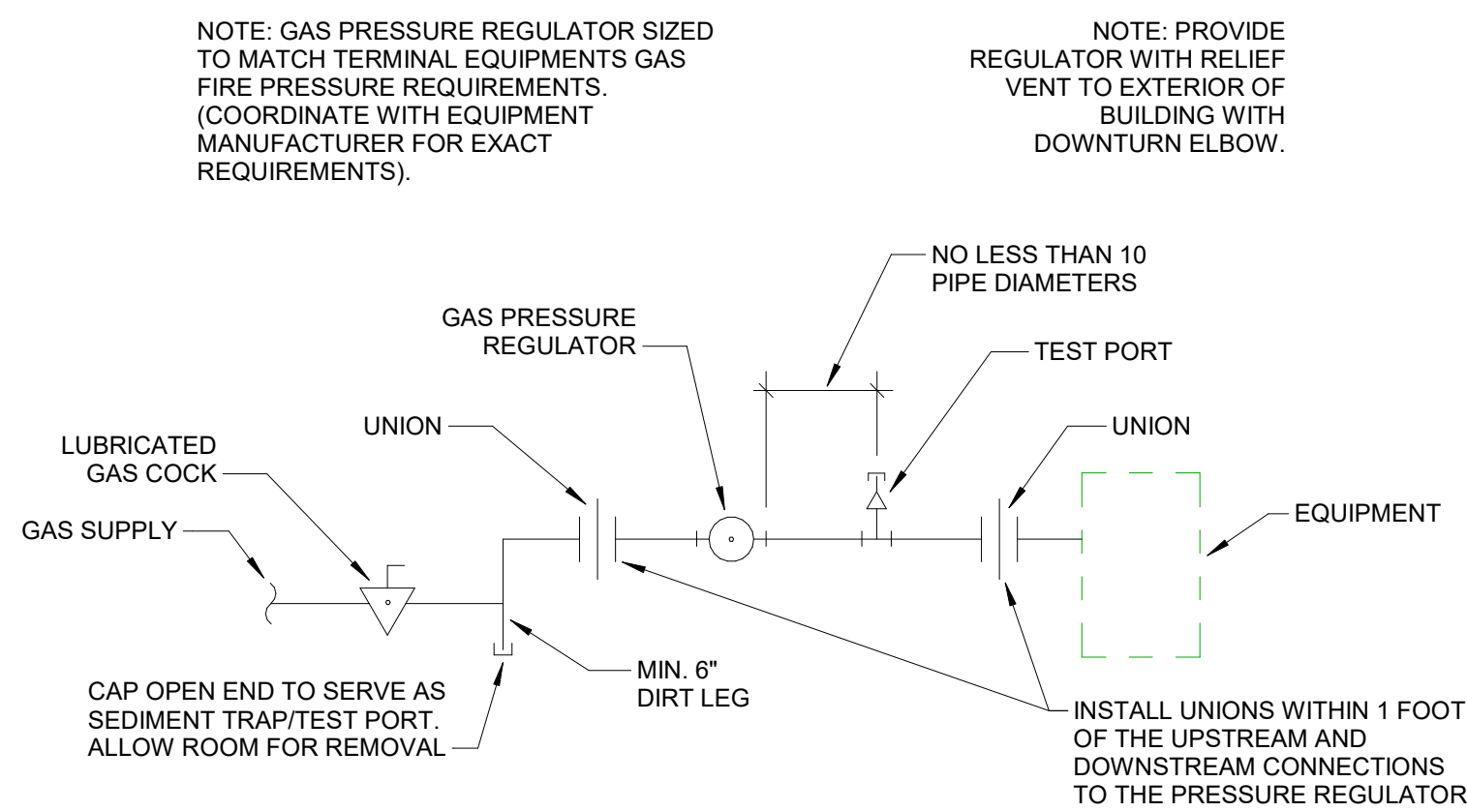
4 ROOF MOUNTED HOOD WITH GRAVITY BACKDRAFT DAMPER



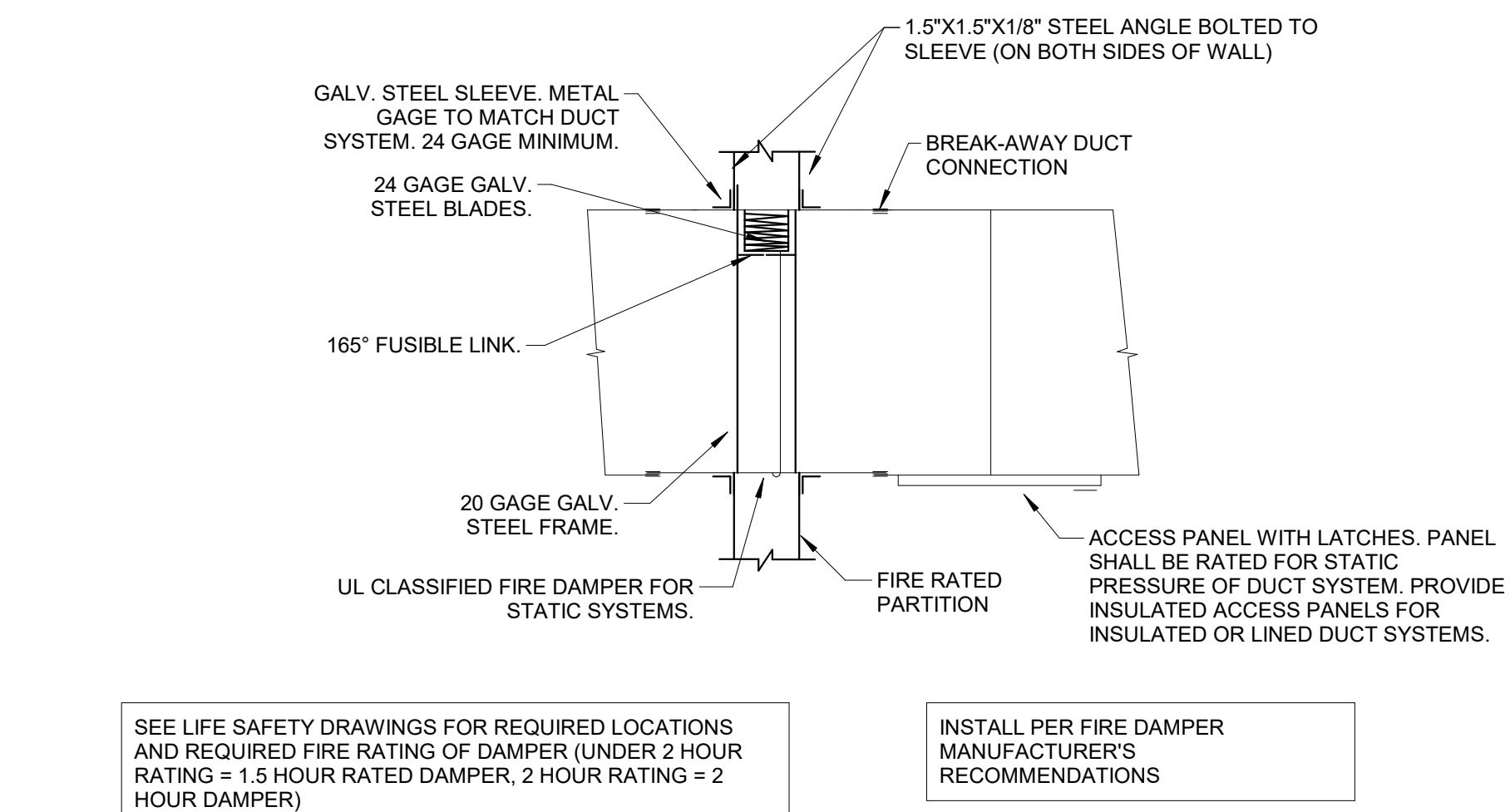
1 TYPICAL MAKE-UP UNIT



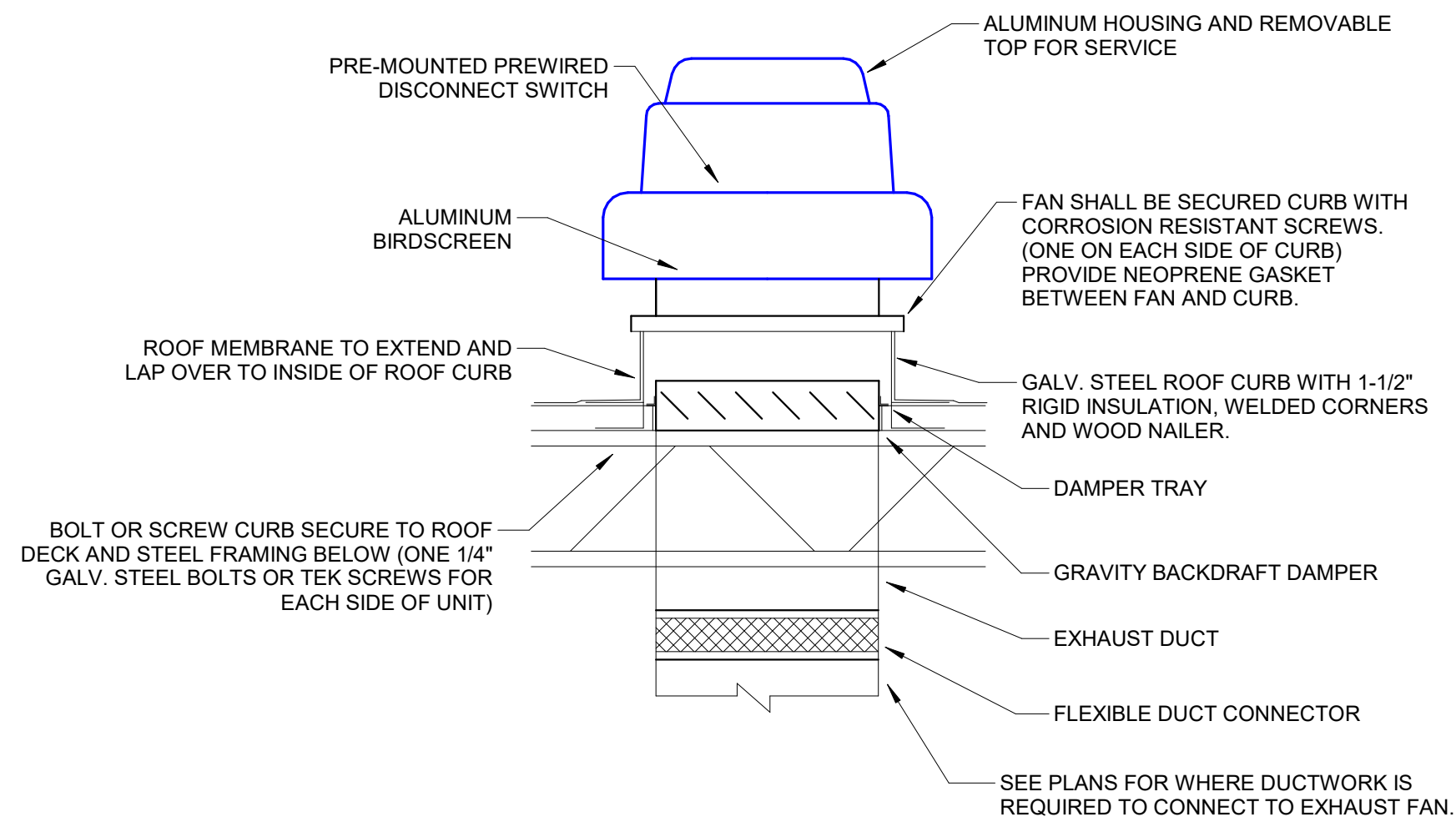
5 **INLINE CENTRIFUGAL FAN**



6 TYPICAL GAS CONNECTION



2 VERTICAL FIRE DAMPER DETAIL TYPE A



3 ROOF MOUNTED DOWNBLAST FAN WITH BACKDRAFT DAMPER DETAIL

PROJECT TITLE

AXIUM BTS EXPANSION - ST. PETERS

4001 PREMIER PARKWAY
ST. PETERS, MISSOURI 63301

~~A PROJECT FOR~~

~~PEAK CONSTRUCTION~~

GENERAL NOTES

CONSULTANT:[illegible]

PROJECT NO: 267020

DRAWN BY: JWE

CHECKED BY: MBS

SHEET NAME

MECHANICAL DETAILS

SEAL

SHEET NUMBER



M501

2 ENLARGED MECHANICAL PLAN - ELECTRICAL 203
1/4" = 1'-0"

1 NATURAL GAS ISOMETRIC

Total Connected Building Gas Load
Project Name: Axiom Packaging
Project Number: 1378-25-01
Date: 4/17/2026

Gas-Fired Equipment	MBH	Qty.	Total MBH	CFH
MAU-1	801	1	801	801
MAU-2	1,615	1	1,615	1,615
RTU-1	250	1	250	250
MAU-3	801	1	801	801
RTU-FUTURE	250	1	250	250
Total Connected Gas Load				3,717

JOB: Axiom Packaging

JOB #: 1378-25-01

DESIGNER: JWE

DATE: 4/17/2026

Gas Pipe Sizing Calculations

2021 INTERNATIONAL FUEL GAS CODE

Section of Pipe	CFH	Distance to Regulator (FT)	Pipe Size 7" WC	Pipe Size 2 PSI	Sizes based on Table 402.4(5)
A-B	3717	976	-	2	2 PSI REGULATOR
B-G	3467	976	-	2	
G-H	1051	976	-	1-1/2	
H-I	801	976	-	1-1/4	
H-J	250	800	-	3/4	
			-		
			-		
			-		
			-		

TOTAL GAS LOAD: 3,717 @ 2PSI WITH TEL OF: 1,000'