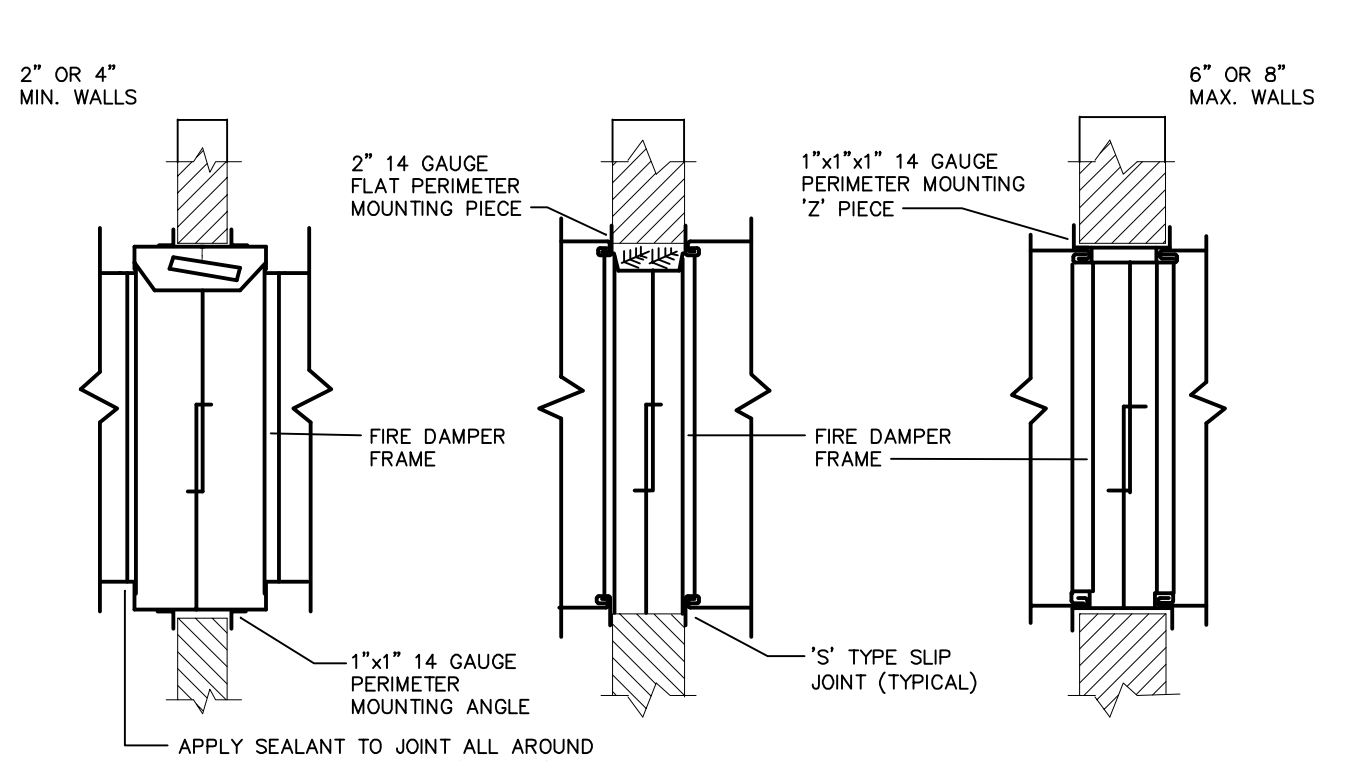
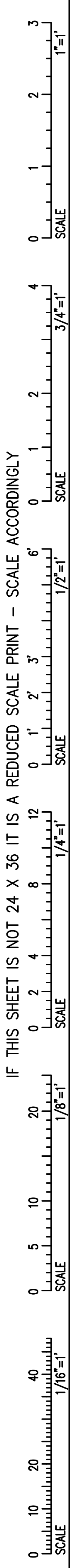
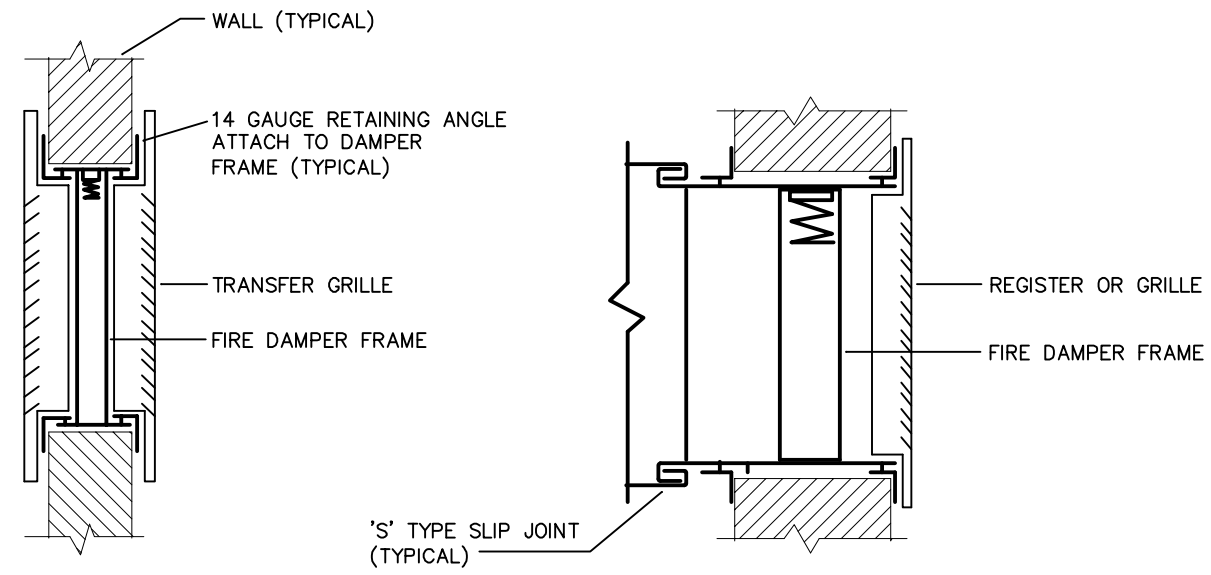


IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY



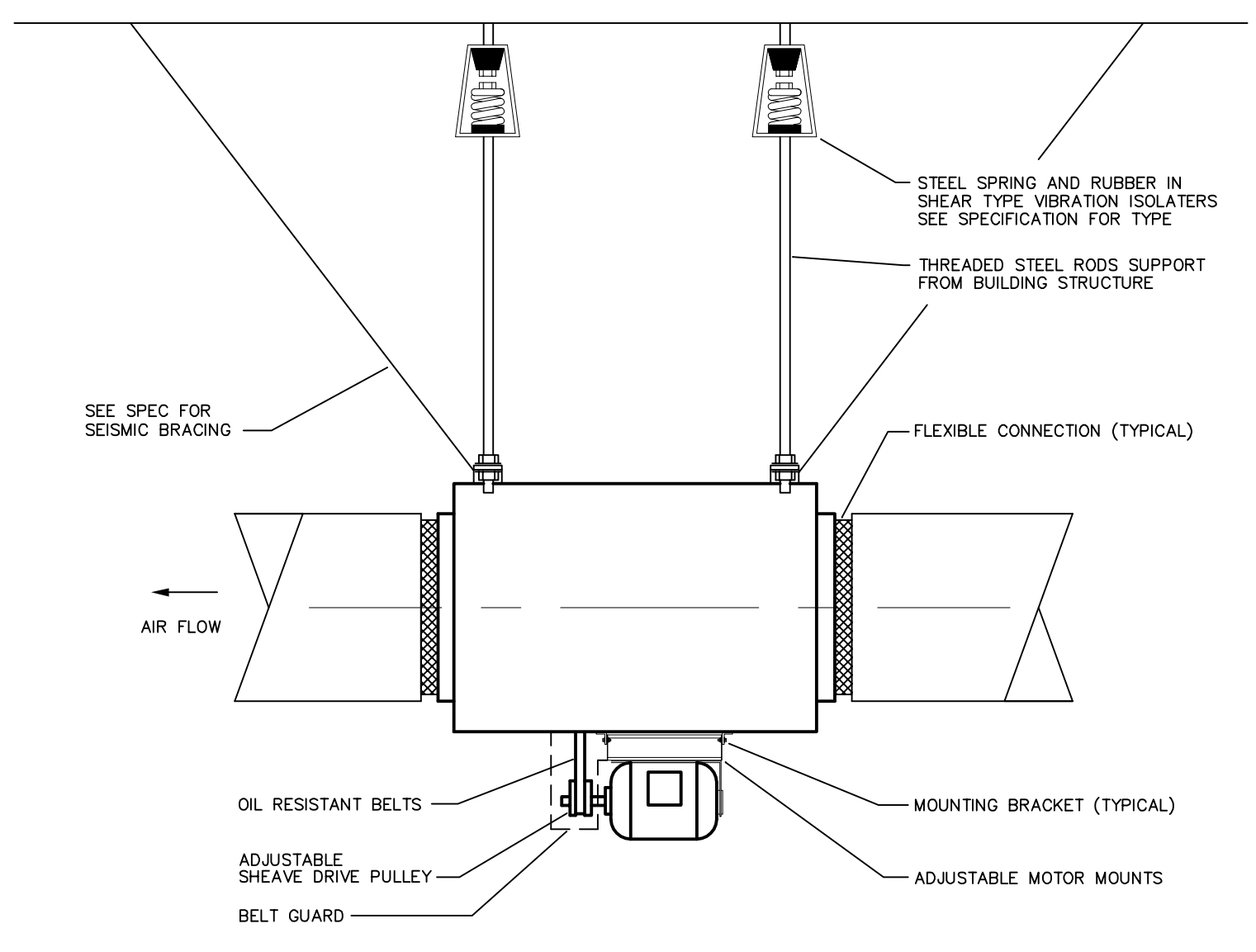
FIRE DAMPERS FOR DUCTWORK



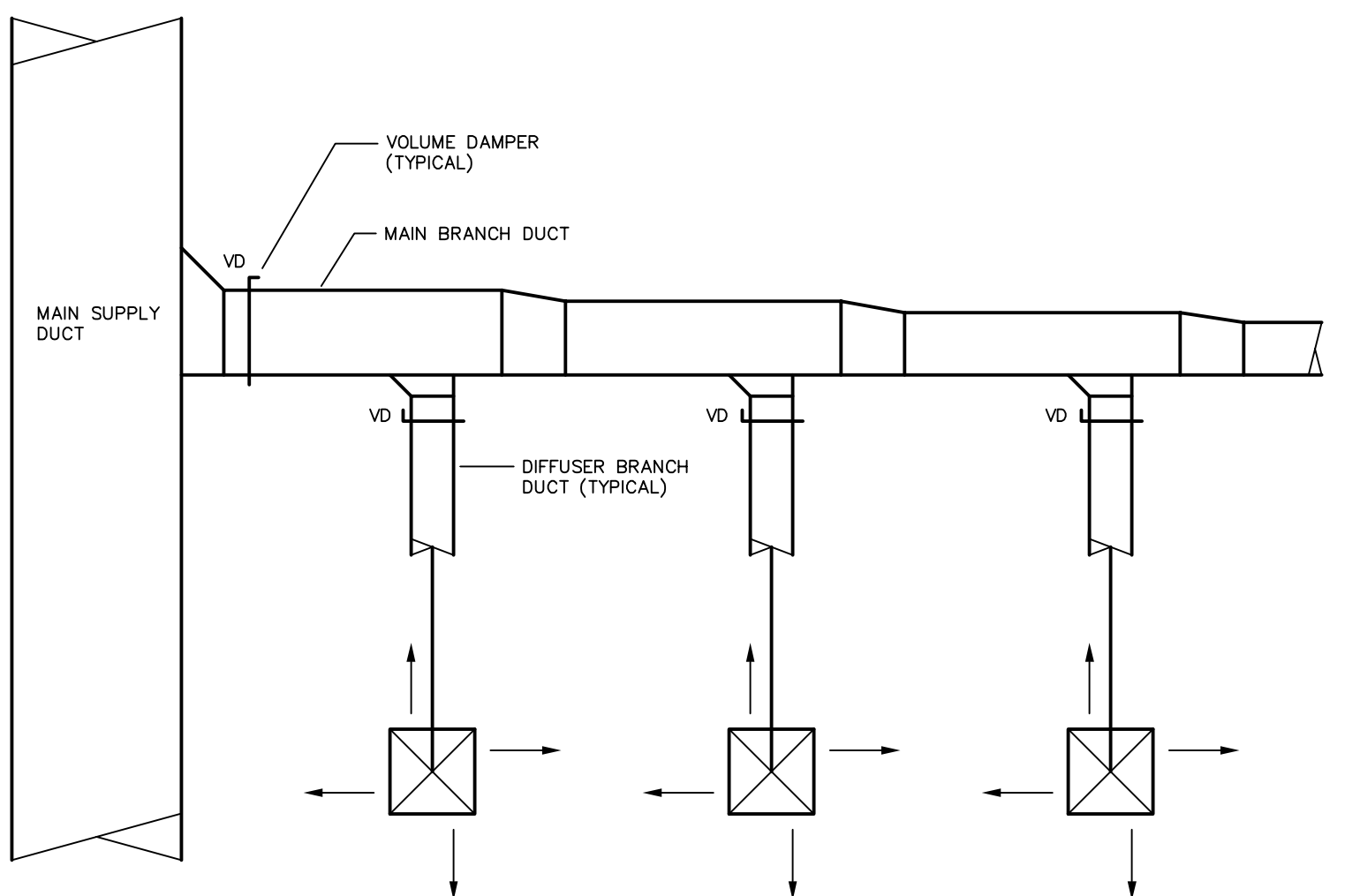
FIRE DAMPERS FOR REGISTERS AND GRILLES ONLY

NOTE:  
ALL FIRE DAMPERS SHALL HAVE ACCESS DOORS IN DUCTWORK FOR INSPECTION & REPLACEMENT OF FUSIBLE LINKS.

**7** TYPICAL FIRE DAMPER DETAILS AT FIRE RATED WALLS  
SCALE: NONE

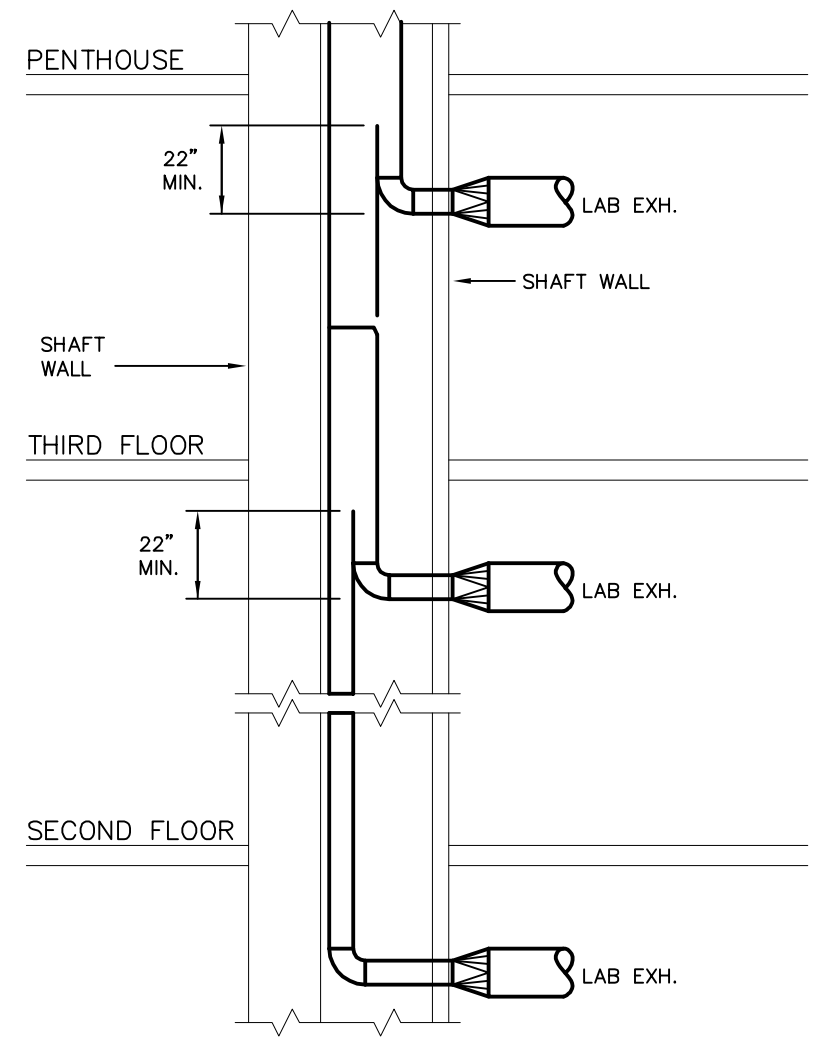


IN-LINE FAN DETAIL  
NOT TO SCALE



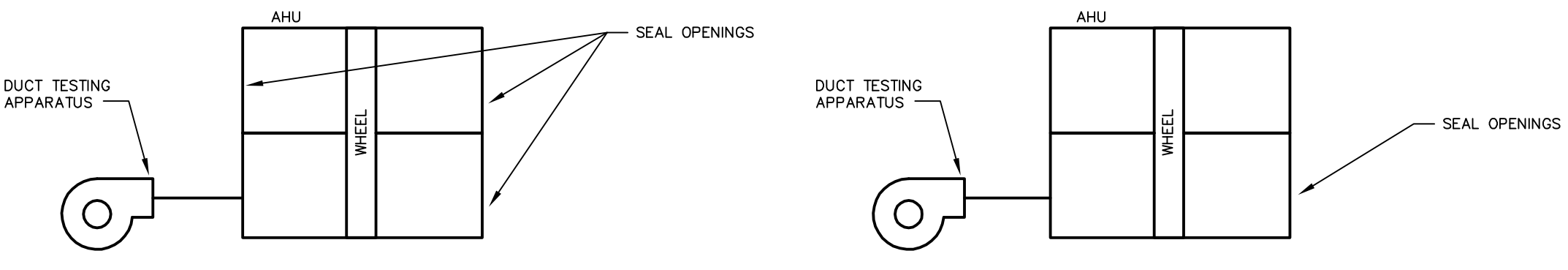
TYPICAL VOLUME DAMPER LOCATION  
NOT TO SCALE

- NOTES:
1. PROVIDE VOLUME DAMPERS IN EVERY MAIN BRANCH AND DIFFUSER BRANCH AS SHOWN ABOVE.
  2. PROVIDE ADDITIONAL VOLUME DAMPERS AS SHOWN ON CONTRACT DOCUMENTS.



- NOTES:
1. INFORMATION IS BASED ON WELDED RECTANGULAR STAINLESS STEEL DUCT.

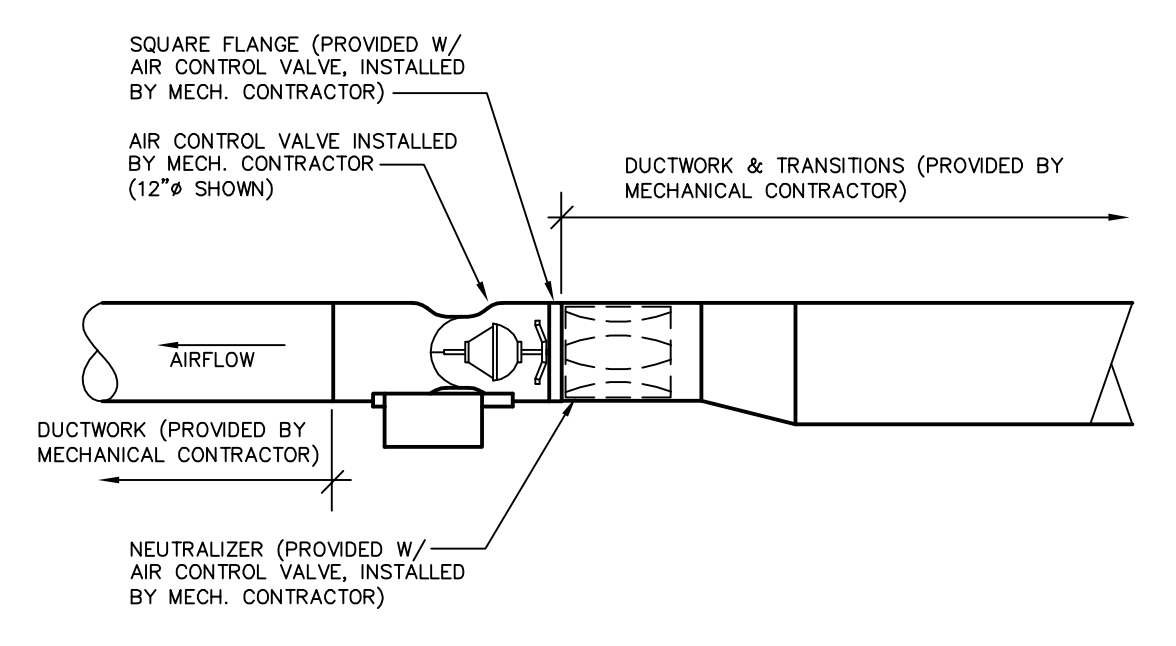
LAB EXHAUST RISER DETAIL



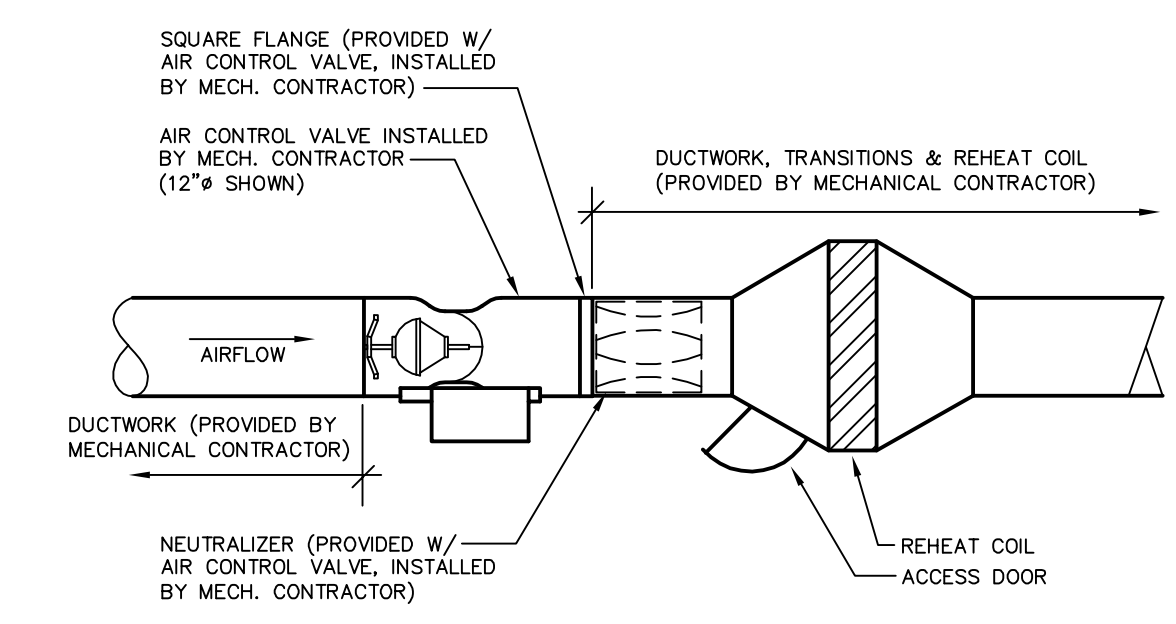
- TEST 1 - BOX INTEGRITY  
REQUIREMENTS: LEAKAGE RATE LESS THAN 1% OF DESIGN AIRFLOW AT 8\"/>

TEST 2 - WHEEL LEAKAGE INTEGRITY  
1. ENERGIZE WHEEL TO NORMAL OPERATING SPEED  
2. PRESSURIZE SUPPLY SIDE OF AHU TO SUM OF EXPECTED SUPPLY AIR OPERATING PRESSURE & RETURN AIR OPERATING PRESSURE.  
3. AIR FLOW SHALL BE LESS THAN 5% OF SUPPLY AIR FLOW.

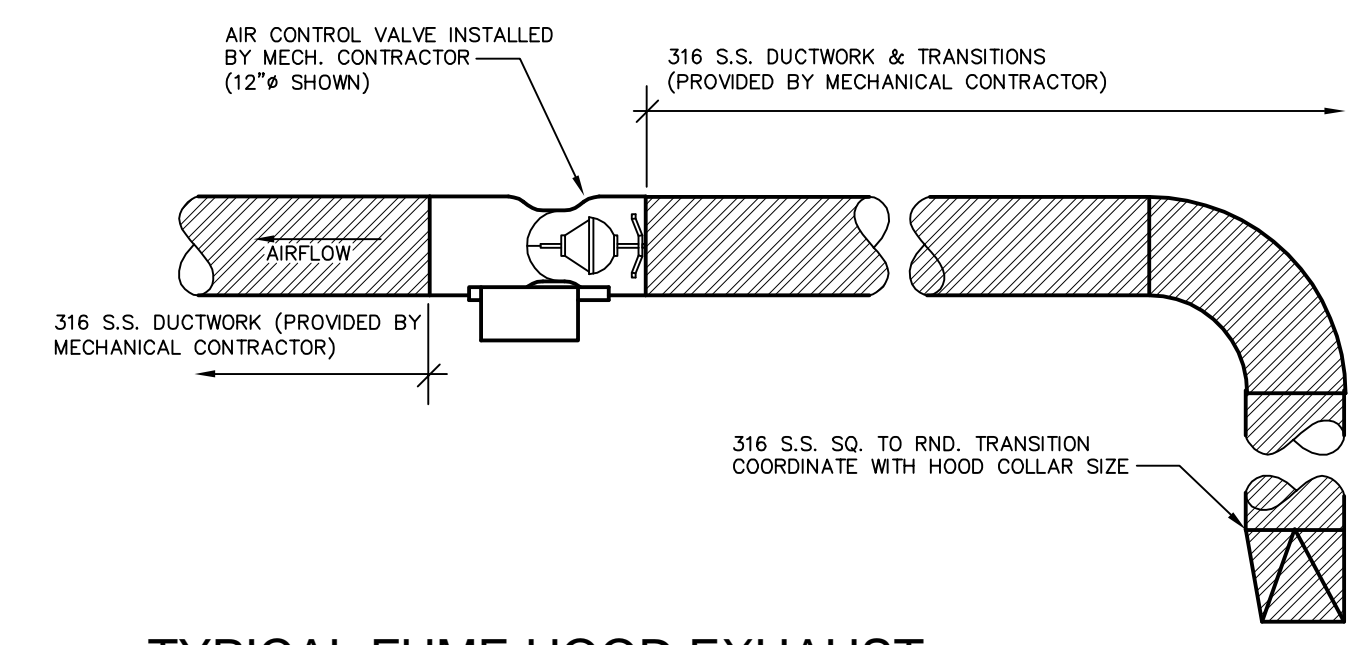
HEAT WHEEL AHU LEAKAGE TESTING  
NOT TO SCALE



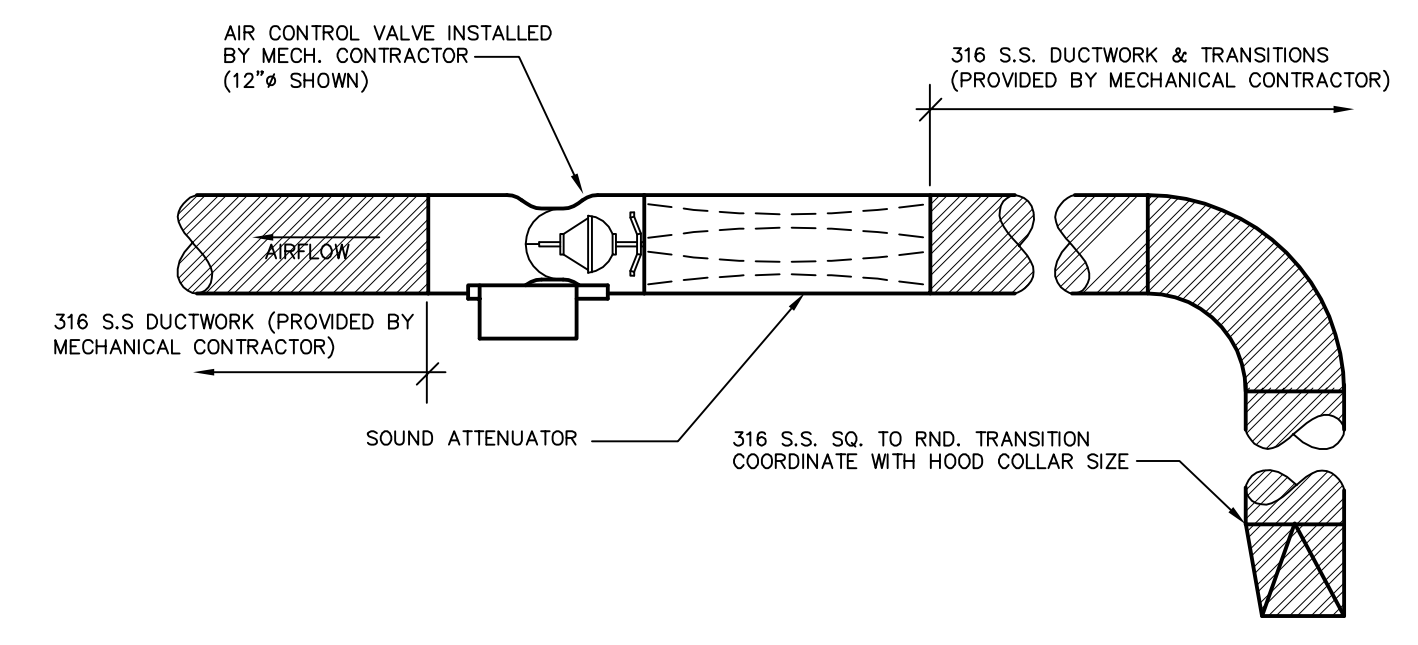
TYPICAL GENERAL EXHAUST AIR CONTROL VALVE DETAIL  
NOT TO SCALE



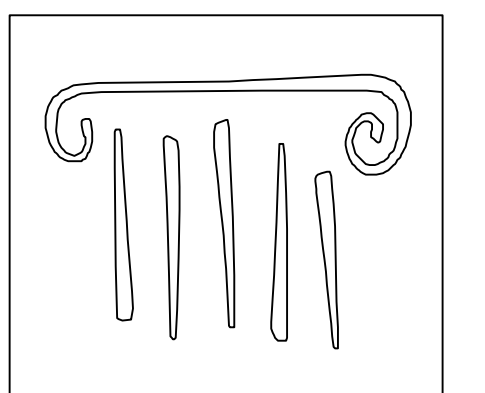
TYPICAL SUPPLY AIR CONTROL VALVE DETAIL  
NOT TO SCALE



TYPICAL FUME HOOD EXHAUST AIR CONTROL VALVE DETAIL  
NOT TO SCALE

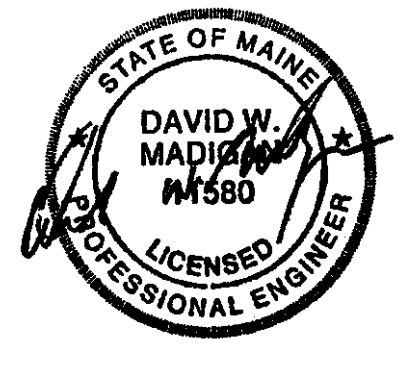


TYPICAL HOOD EXHAUST AIR CONTROL VALVE DETAIL  
NOT TO SCALE



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**BECKER**  
structural engineers, inc.

**SYTDesign**  
CONSULTANTS  
CIVIL ENGINEERING & LANDSCAPE ARCHITECTURE



#	DATE	DESCRIPTION
		PERMIT SET
	01/24/08	Date Issued
	06506	Project Number

SHEET NAME  
**MECHANICAL DETAILS**

Drawn By  
AMM  
Checked By  
DWM/FBH  
**M4.2**

**PERMIT SET - NOT FOR CONSTRUCTION**