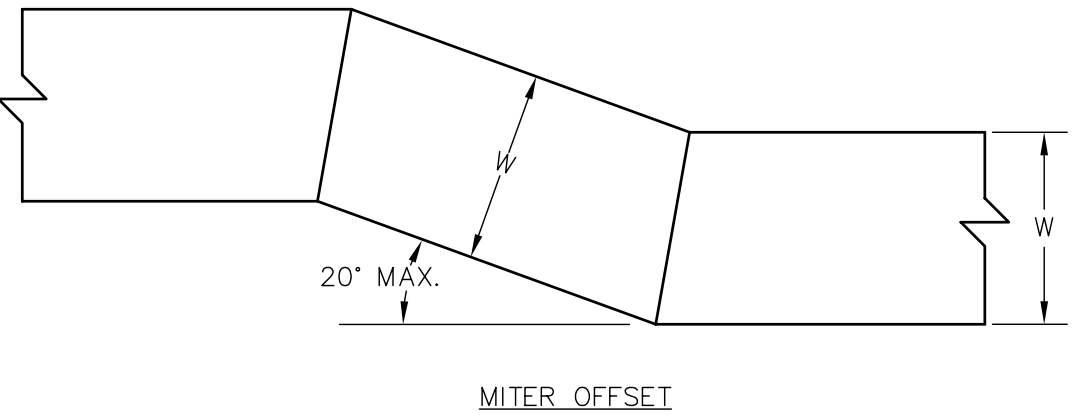


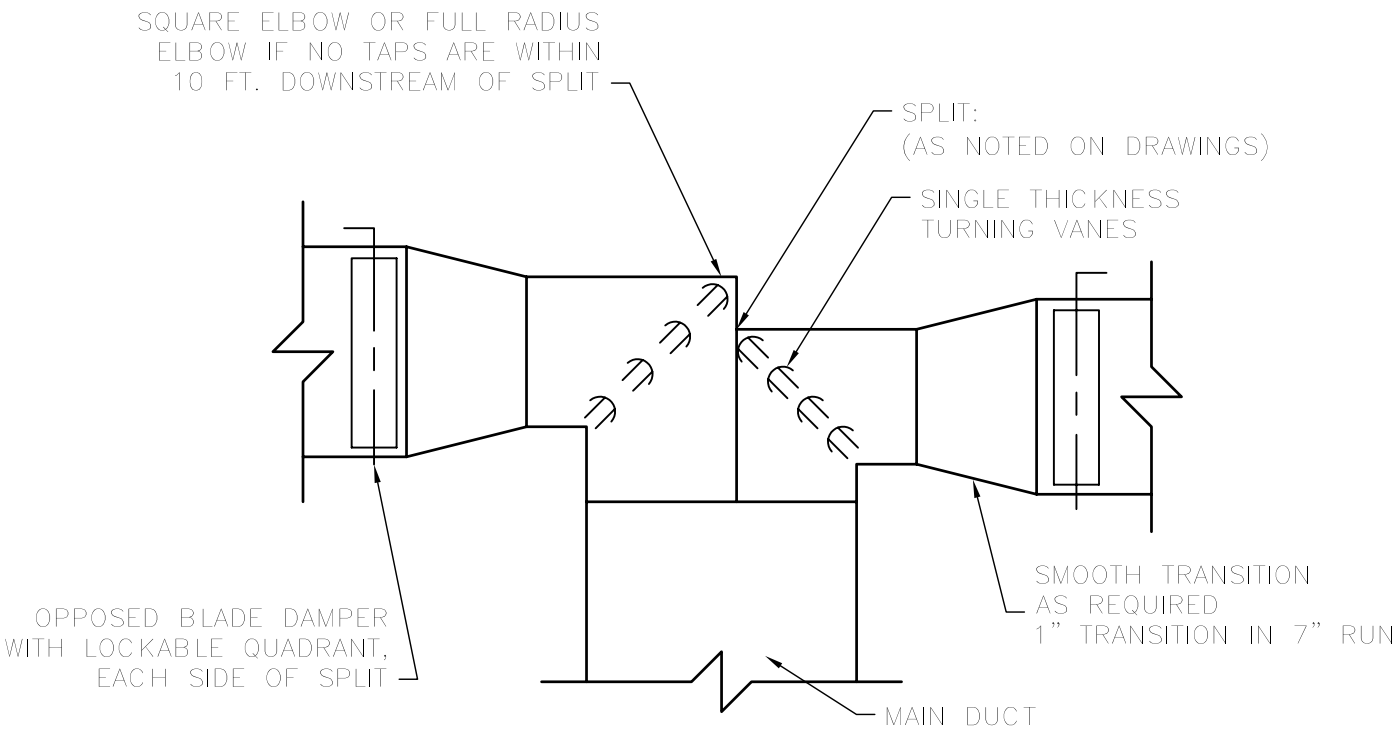
**NOTE:**  
DETAILS INDICATE ACCEPTABLE DUCTWORK INSTALLATION AND FITTINGS. OTHER FITTINGS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL OF ENGINEER. SQUARE-THROAT / RADIUS-BACK ELBOWS ARE NOT ACCEPTABLE.



### DUCT CONSTRUCTION DETAILS

SCALE: NOT TO SCALE

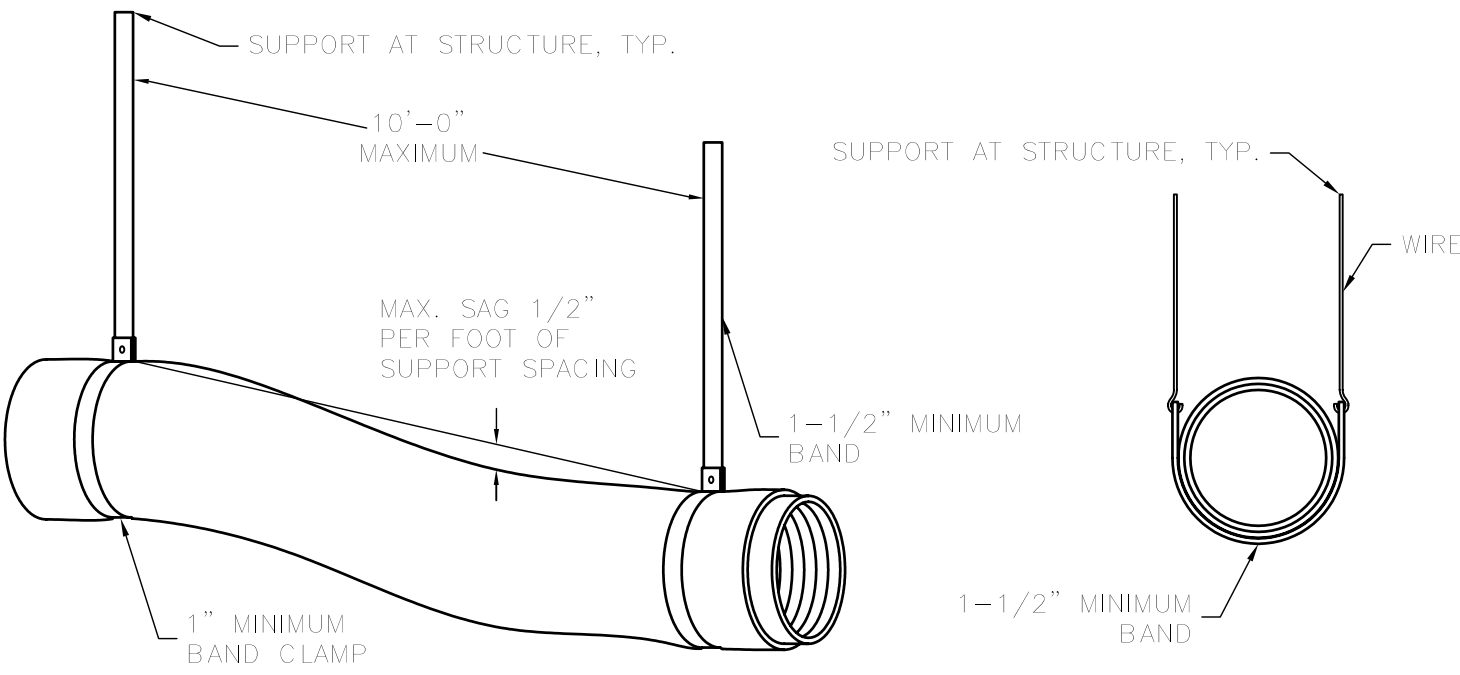
1  
M3.1



### LOW PRESSURE/ VELOCITY DUCT SPLIT DETAIL

SCALE: NOT TO SCALE

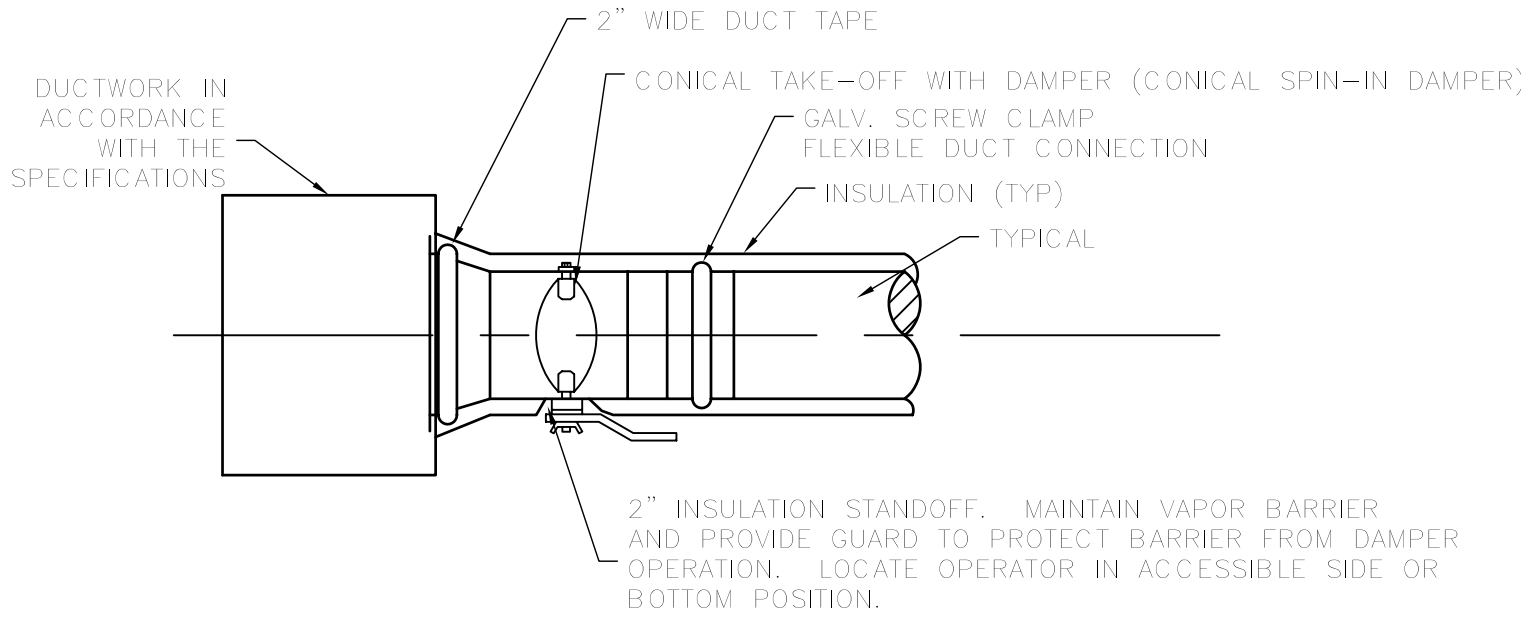
2  
M3.1



### FLEXIBLE DUCT SUPPORTS

SCALE: NOT TO SCALE

3  
M3.1



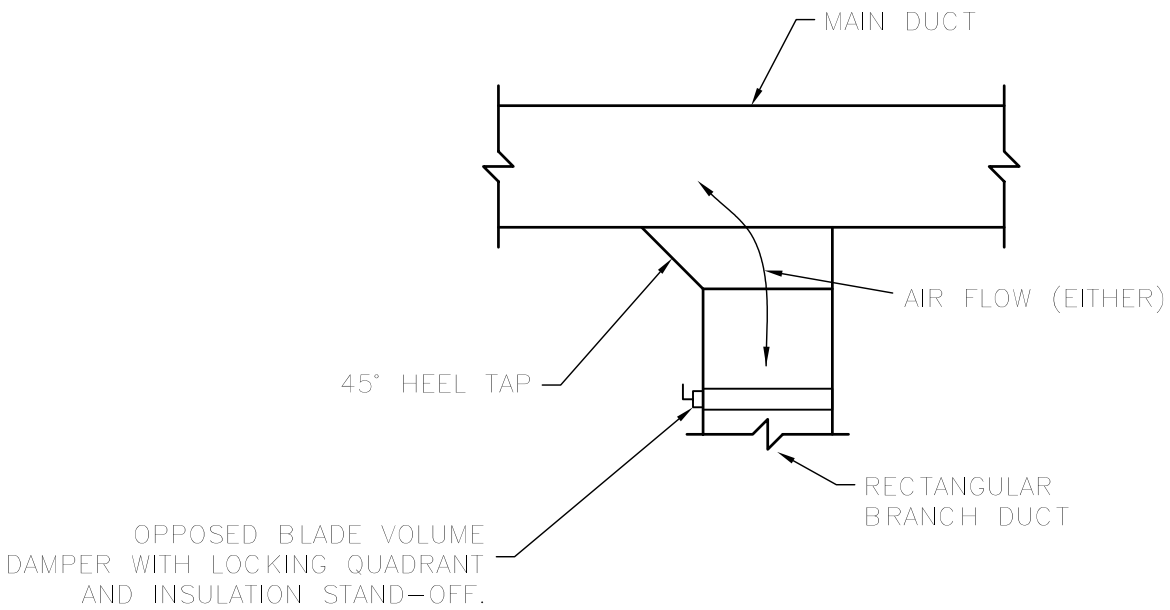
### NOTES:

1. APPROVED TAKE-OFFS SHALL HAVE CONICAL SPIN IN TAP, DAMPER, 2\"/>
2. BALANCING DAMPERS SHALL BE INSTALLED WITH SPRING LOADED RETRACTABLE.
3. BEARING AND A POSITIVE LOCKING NUT.
4. DAMPER SHAFT SHALL INCORPORATE END BEARINGS AND/OR SLEEVES TO MINIMIZE AIR LEAKAGE AT ASSEMBLY WALL.

### ROUND DUCT TAKE-OFF DETAIL

SCALE: NOT TO SCALE

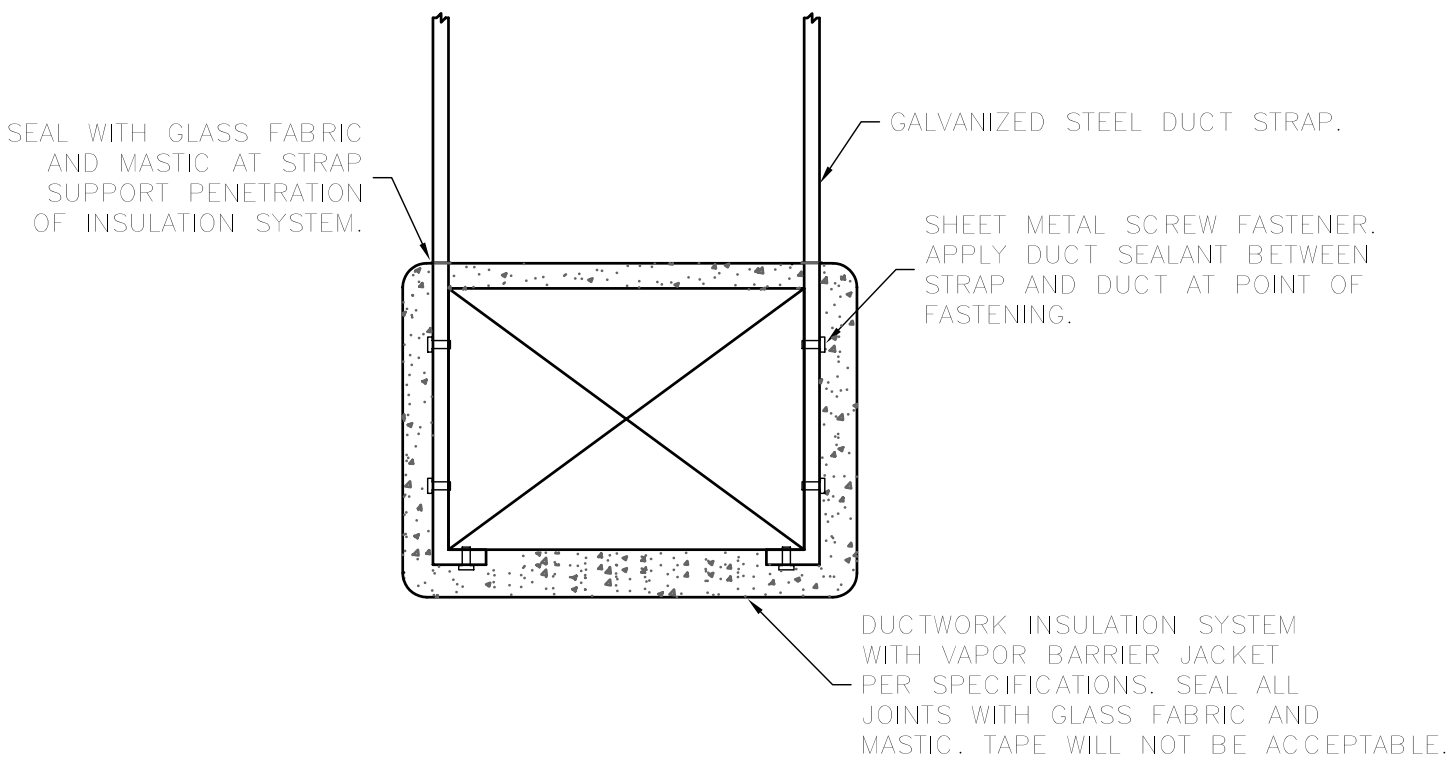
4  
M3.1



### RECTANGULAR DUCT BRANCH DETAIL

SCALE: NOT TO SCALE

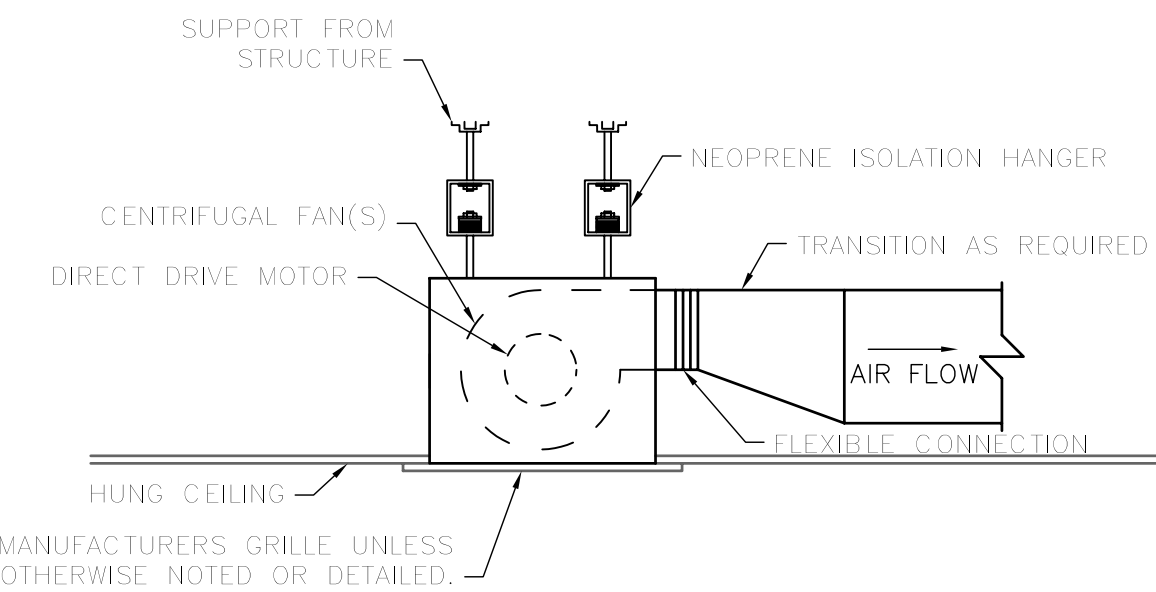
5  
M3.1



### DUCT SUPPORT DETAIL

SCALE: NOT TO SCALE

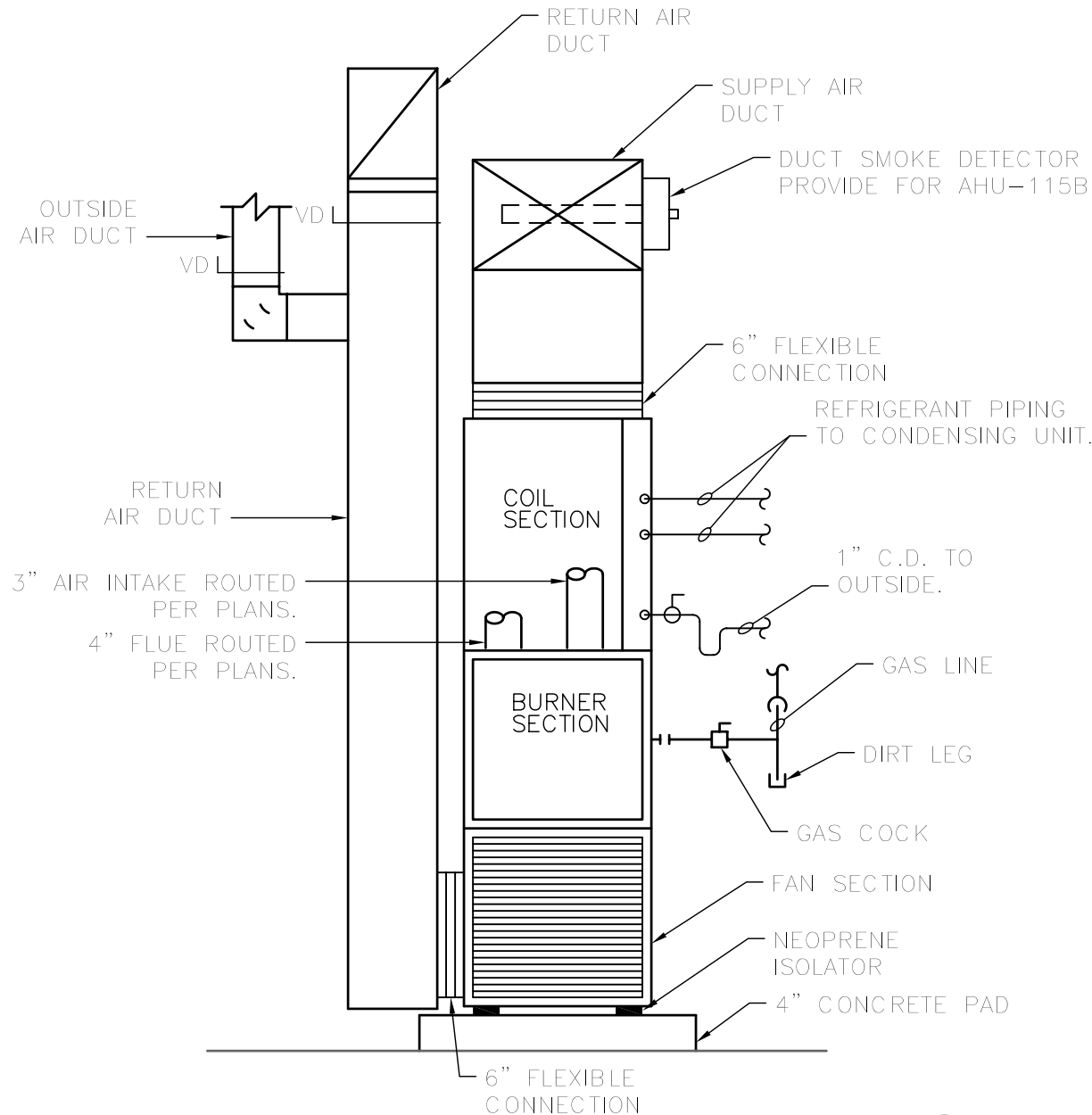
6  
M3.1



### CABINET CENTRIFUGAL FAN DETAIL

SCALE: NOT TO SCALE

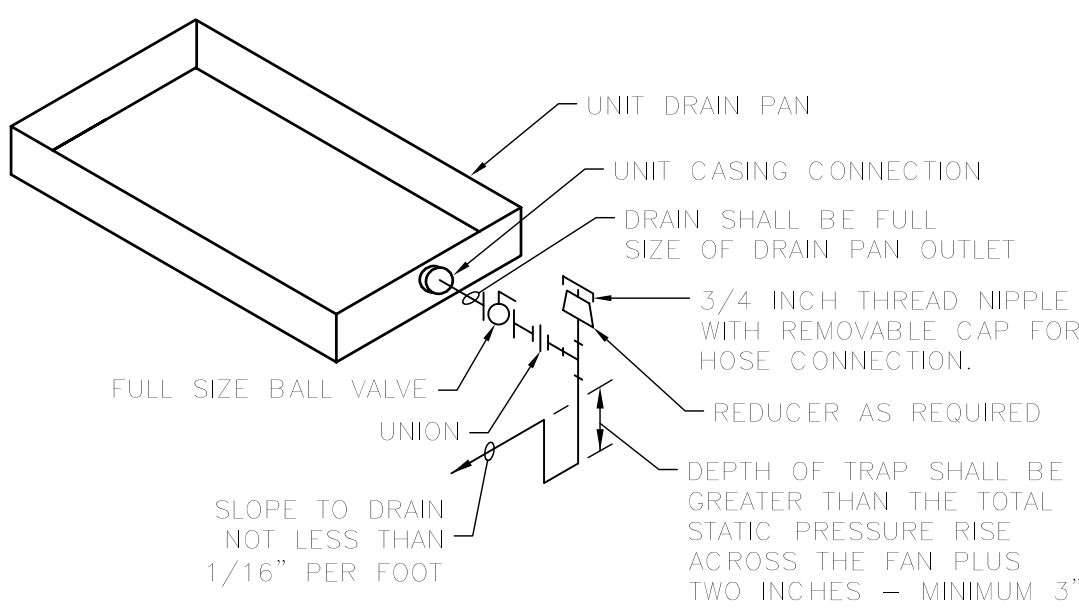
7  
M3.1



### GAS FURNACE TYPICAL INSTALLATION

SCALE: NOT TO SCALE

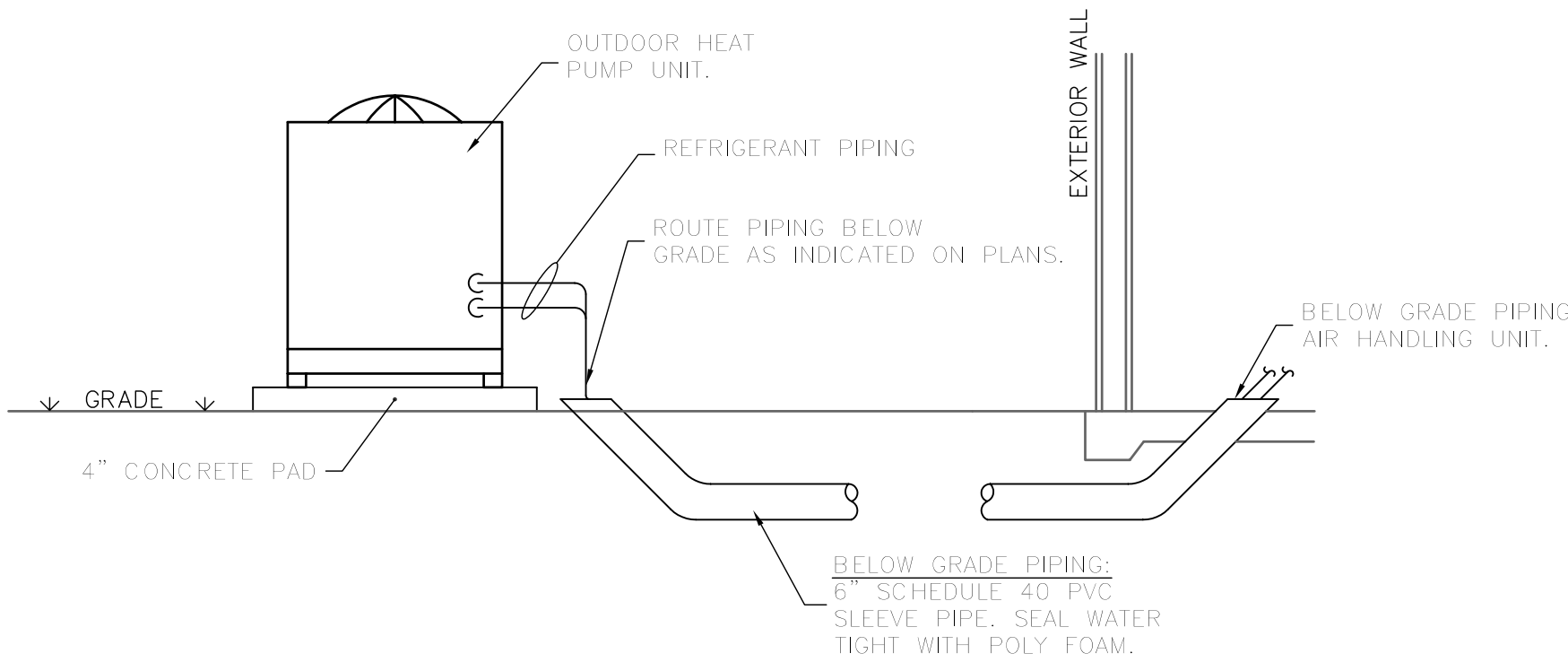
8  
M3.1



### CONDENSATE DRAIN TRAP DETAIL

SCALE: NOT TO SCALE

9  
M3.1



### TYPICAL CONDENSING UNIT INSTALLATION

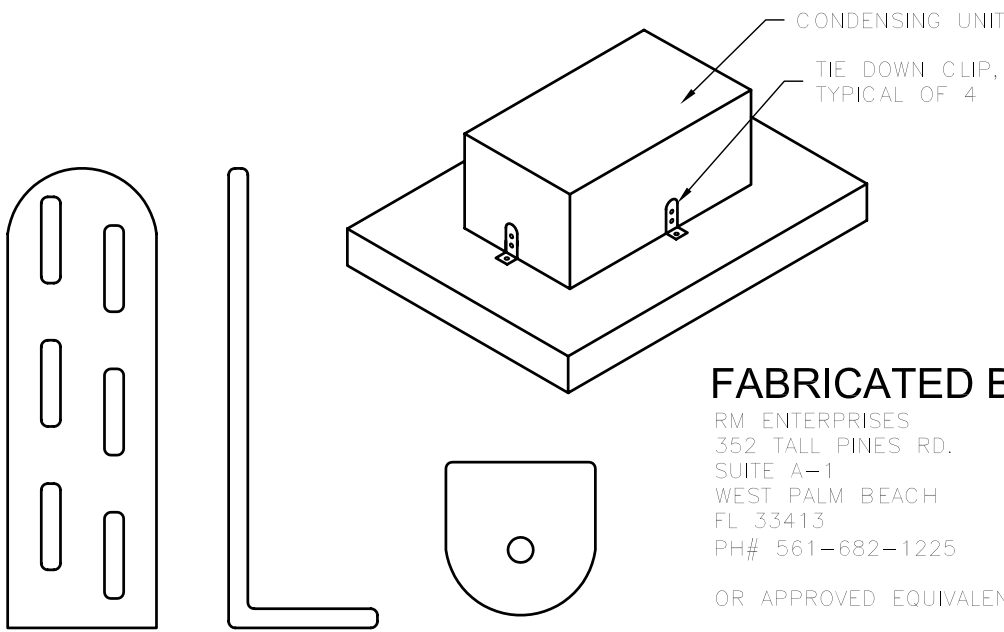
SCALE: NOT TO SCALE

10  
M3.1

### MOUNTING INSTRUCTIONS

CONDENSING UNIT TIE DOWN AS FOLLOWS:  
USE THE RM CLIP SCREW TO A CONCRETE SLAB OR ALUMINUM ROOF STANDS WITH ONE EACH 1/4\"/>

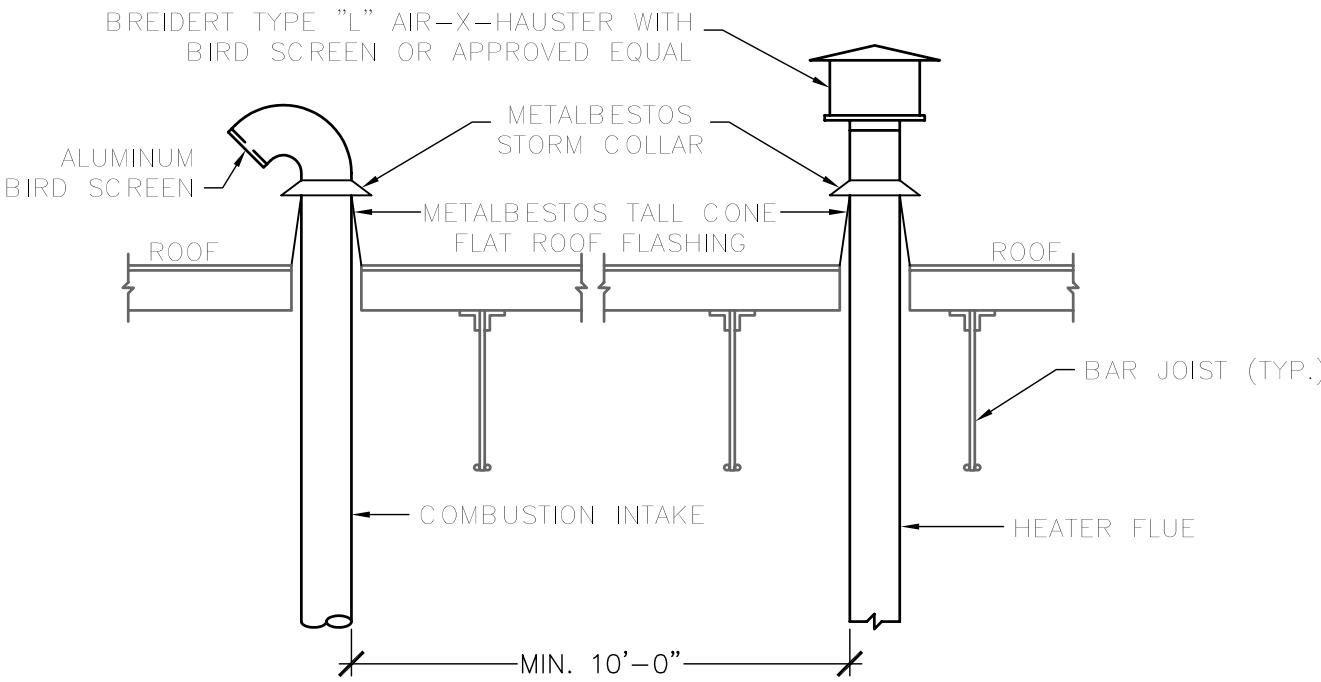
THIS IS FOR THE GROUND MOUNTED UNITS OR ON CONCRETE ROOF DECKS. ALSO CAN BE USED WITH ALUMINUM ROOF STANDS. THESE CLIPS ARE C-90 RATED FOR CORROSION COASTAL AREAS. THE DESIGN MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004, CHAPTER 7-2002, 150 MPH WINDS AND SBC01. THESE RM CLIPS HAVE A FLORIDA APPROVAL #3203, R1.



### CONDENSING UNIT TIE DOWN - BRACKET AT BASE

SCALE: NOT TO SCALE

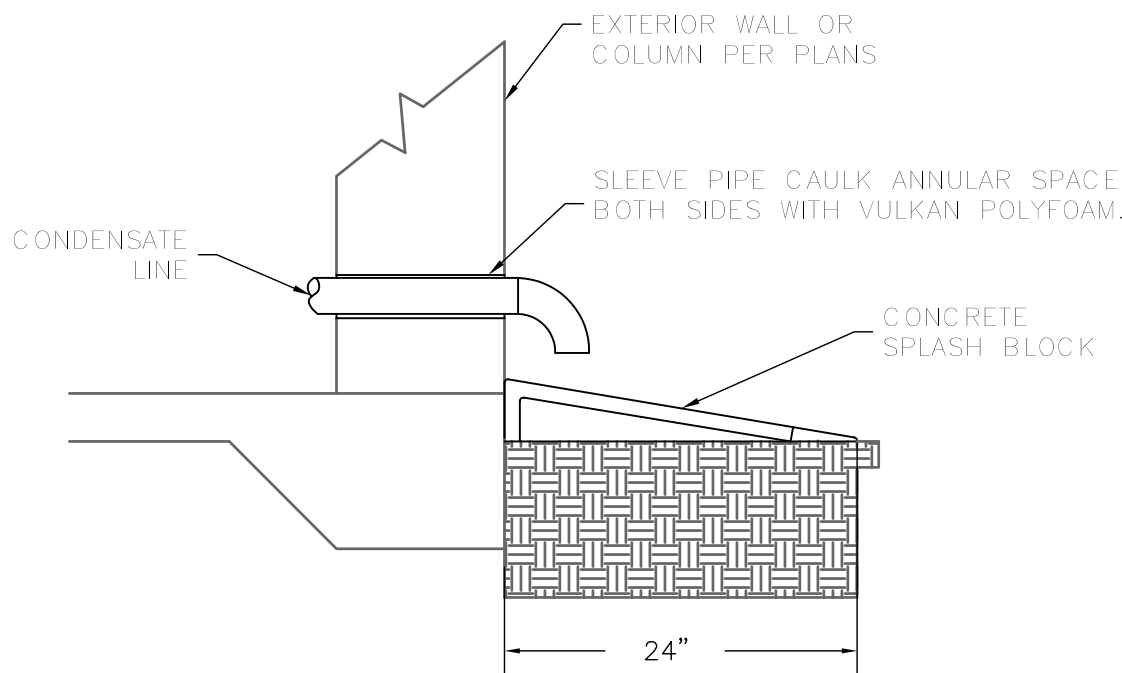
11  
M3.1



### FLUE EXHAUST DETAIL

SCALE: NOT TO SCALE

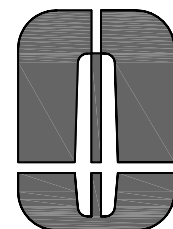
12  
M3.1



### CONDENSATE DRAIN DETAIL

SCALE: NOT TO SCALE

13  
M3.1



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Administration Expansion

FOR:

Department of Military Affairs

Starke, Fl.

project number:

209035

consultants:

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drawing scale:

SCALE AS NOTED

sheet number:

M3.1