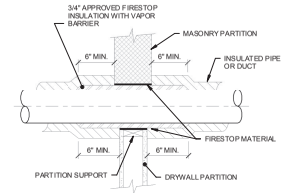
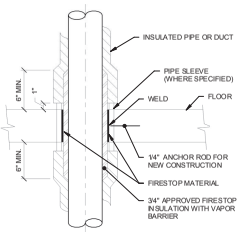


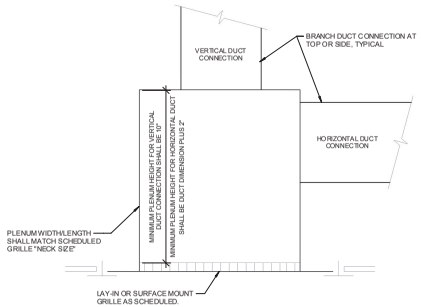
PARTITION OR CHASE PENETRATION

NOTE:
APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES. REFER TO SPECIFICATION DIVISION 7, FIRE STOPPING SYSTEM.

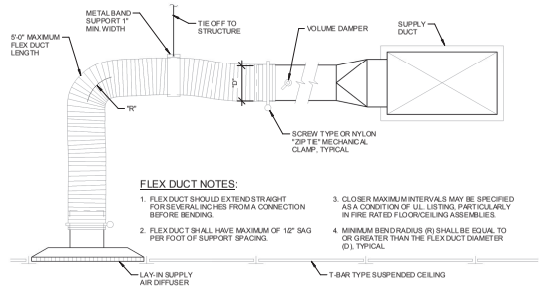


FLOOR OR DECK PENETRATION

E9	DETAIL - PIPE - DUCT PENETRATIONS
NOT TO SCALE	



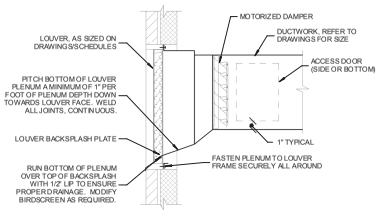
C4	DETAIL - SUPPLY/RETURN AIR REGISTER BOOT
NOT TO SCALE	



FLEX DUCT NOTES:

1. FLEX DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. FLEX DUCT SHALL HAVE MAXIMUM OF 1/2" SAG PER FOOT OF SUPPORT SPACING.
3. CLOSER MAXIMUM INTERVALS MAY BE SPECIFIED AS A CONDITION OF U.L. LISTING, PARTICULARLY IN FIRE RATED FLOOR/CEILING ASSEMBLIES.
4. MINIMUM BEND RADIUS (R) SHALL BE EQUAL TO OR GREATER THAN THE FLEX DUCT DIAMETER (D.), TYPICAL.

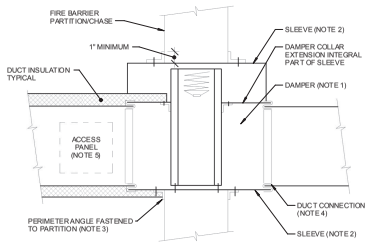
C7	DETAIL - SUPPLY AIR BRANCH CONNECTION
NOT TO SCALE	



NOTES:

1. DETAIL IS BASED UPON RUSKIN MODEL No. ELF375D. FOR ALTERNATE MANUFACTURERS COORDINATE AS REQUIRED FOR WEATHERTIGHT INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE LOUVER FRAME CONSTRUCTION WITH SIDING MANUFACTURER TO ENSURE PROPER FLASHING CAPABILITIES FOR A WEATHERTIGHT INSTALLATION.
3. SEAL BOTTOM OF PLENUM WATERTIGHT.

A4	DETAIL - EXTERIOR LOUVER
NOT TO SCALE	



NOTES:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION IS SIMILAR. FOLLOW MANUFACTURER'S INSTRUCTIONS INCLUDING FASTENER OPTIONS AND GAUGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAUGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1-1/2"x1-1/2", 14 GAUGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAK-AWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA LPDS, FIGURE 2-13. SEAL JOINTS.
5. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.

A7	DETAIL - TYPICAL FIRE DAMPER
NOT TO SCALE	

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IAN A. MACDONALD
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LICENSED PROFESSIONAL ENGINEER

Graphic Scale: 1" 1/2" 0 1"

The Park Danforth

The Park Danforth -
777 Stevens Avenue,
Portland, ME, 04103

777 Stevens Ave, Portland, ME, 04103

NO.	DESCRIPTION	DATE

N

CONTENT:
MECHANICAL DETAILS

DRAWN BY:	RBW
PROJECT NO:	12056-00
DATE:	06/05/2015
REVISED:	OCTOBER 16, 2015
SCALE:	AS SHOWN

MH5.0

Project Phase
CONFORMANCE SET

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