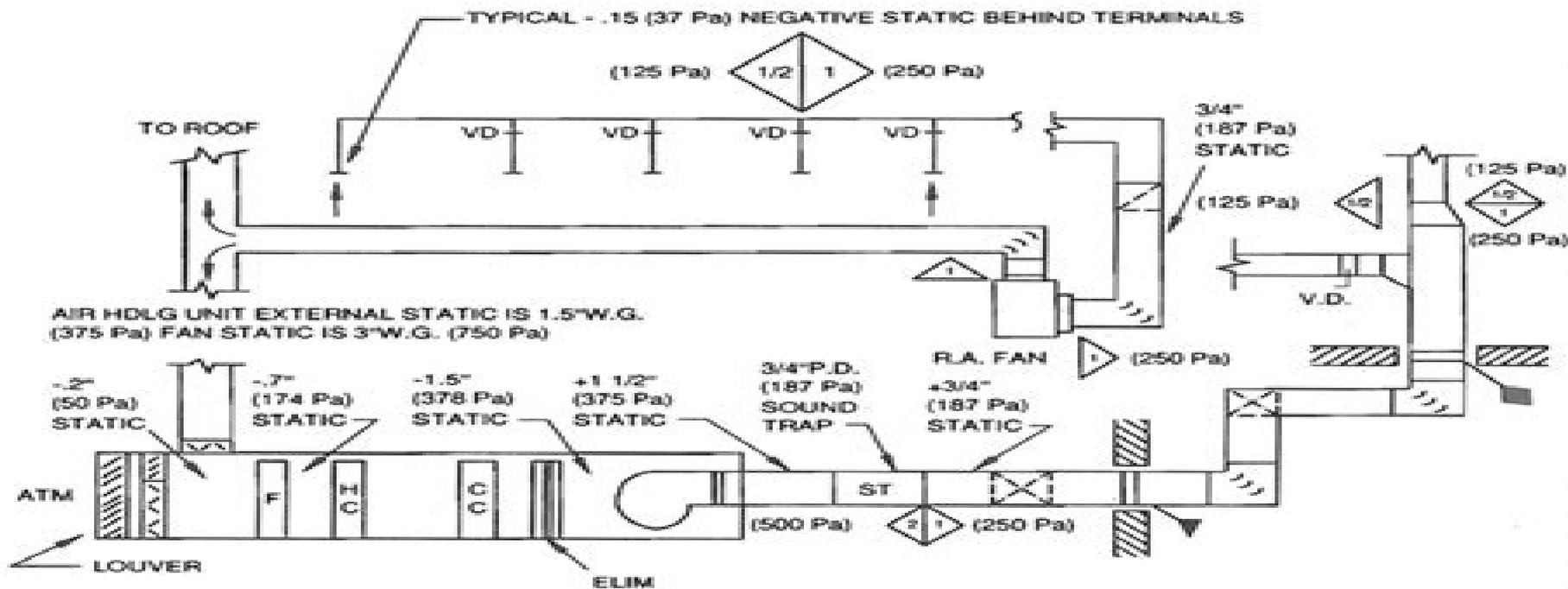
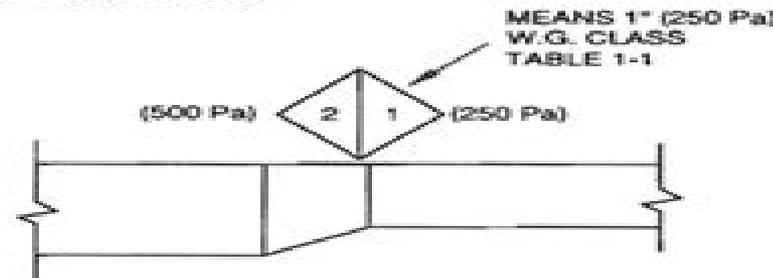


SAMPLE SITUATION WITH A TERMINAL REQUIRING .15" (37 Pa) STATIC, A BRANCH DAMPER REQUIRING .15" (37 Pa) STATIC, DUCT DESIGNED FOR .1" LOSS/100 FT (25 Pa/30 m) AND FITTING LOSSES EQUAL TO STRAIGHT DUCT LOSS THE CIRCUIT CAN BE 100 L.F. (30 m) LONG BEFORE 1/2" (125 Pa) LOSS IS EXCEEDED.

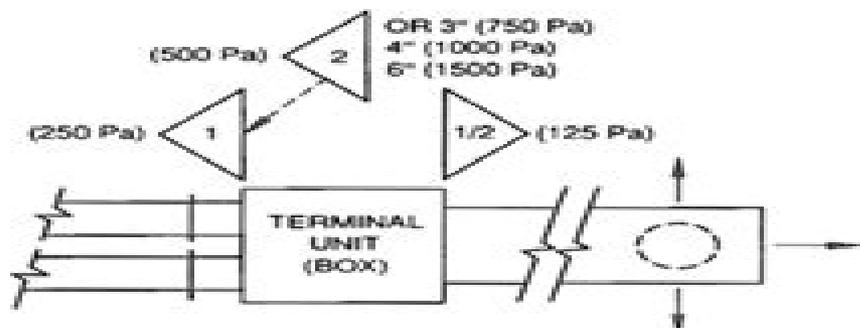


THE NUMBER ASSIGNS PRESSURE CLASS WHICH WILL ACCOMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS.



"N" SUPERSCRIT IS USED TO CLARIFY NEGATIVE PRESSURE DUCT ON CERTAIN LESS OBVIOUS APPLICATIONS.

(500 Pa) 2<sup>N</sup>



VARIABLE VOLUME UNITS, MIXING BOXES, ETC. REQUIRE A MINIMUM OPERATING PRESSURE, BUT THE DUCT SHOULD BE ASSIGNED A CLASS FOR THE MAXIMUM OPERATING PRESSURE THAT MAY OCCUR.

# Smacna Duct Design

**Arthur A. Bell, W. Larsen Angel**



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