



## TERMINAL BOX SEQUENCE OF OPERATION

1. TERMINAL BOX GENERAL: PROGRAMMING BY OWNER, INCLUDED FOR CLARITY.
  - A. TEMPERATURE THERMOSTAT SET AT 72 DEG. F (ADJUSTABLE) MAINTAINS CONSTANT SPACE TEMPERATURE BY MODULATING THE VARIABLE AIR VOLUME OPERATOR. ON A TEMPERATURE RISE ABOVE THE 72 DEG. F SETPOINT (ADJUSTABLE), THE VAV TERMINAL UNIT SHALL MODULATE TO ITS MAXIMUM CFM. AS THE TEMPERATURE MODULATES BELOW THE COOLING SETPOINT THE, THE TERMINAL UNIT SHALL MODULATE TO ITS MINIMUM CFM. AS THE SPACE TEMPERATURE CONTINUES TO FALL TO THE HEATING SETPOINT (68 DEG. F ADJUSTABLE), THE PROPORTIONAL HOT WATER VALVE SHALL MODULATE OPEN. UPON INCREASE IN CO2 THE VARIABLE AIR VOLUME DAMPER SHALL MODULATE TO ITS MAXIMUM CFM TO MAINTAIN A CO2 LEVEL BELOW 1000PPM (ADJUSTABLE).
  - B. PROVIDE A DISCHARGE TEMPERATURE SENSOR ON SUPPLY TERMINAL BOX WITH RE-HEAT COIL FOR MONITORING TERMINAL BOX DISCHARGE TEMPERATURE.
  - C. DISCHARGE AIR TEMPERATURE SHALL BE LIMITED TO MAXIMUM OF 15 DEG. F ABOVE ROOM DESIGN TEMPERATURE.
  - D. "HIGH" AND "LOW" ALARM SET POINTS SHALL BE 20% ABOVE OR BELOW THE MAXIMUM/MINIMUM AIRFLOW TO EACH TERMINAL.



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**SMRT**

USM SCIENCE BUILDING C WING  
 CYBER SECURITY LAB FIT-UP  
 PROJECT 2013-007  
 PORTLAND, MAINE

ISSUED FOR PERMITTING AND  
 CONSTRUCTION  
 12-20-13

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