

### SEQUENCES OF OPERATION:

#### GENERAL SCOPE OF THE CONTROL WORK:

- THE TEMPERATURE CONTROL WORK ON THIS PROJECT SHALL BE FIELD INSTALLED.
- NEW EQUIPMENT SHALL BE DDC CONTROLLED WITH ELECTRIC ACTUATION AND TIED INTO THE EXISTING JOHNSON DDC SYSTEM.
- EXISTING-TO-REMAIN REHEAT COILS WITH PNEUMATIC CONTROLS SHALL BE PROVIDED WITH NEW PNEUMATIC ROOM THERMOSTATS WHERE INDICATED.
- EXISTING VAV TERMINALS ARE DDC CONTROLLED. PROVIDE NEW ELECTRONIC ROOM TEMPERATURE SENSORS WHERE INDICATED.

#### GENERAL SYSTEM STARTUP:

- PROVIDE SEQUENCES OF OPERATION FOR ALL WORKING SYSTEMS, INCLUDING TERMINAL EQUIPMENT AND AIR HANDLERS, SHALL BE CIRCLED THROUGH THE ACTION OF THEIR RESPECTIVE CONTROL SYSTEMS AS DESCRIBED HEREIN. SUBMIT PROPOSED SEQUENCE OF OPERATION, POINTS LIST AND SCHEMATIC DIAGRAM FOR EQUIPMENT NOT INCLUDED IN THESE SEQUENCES OF OPERATION.

#### FIRE ALARM SYSTEM TIE-IN:

- ALL EXISTING FIRE ALARM/MECHANICAL EQUIPMENT INTERFACES SHALL REMAIN.

#### EXISTING AIR HANDLING UNITS:

- THE EXISTING AHU CONTROL DEVICES, SEQUENCE OF OPERATIONS AND OCCUPIED/UNOCCUPIED/START-UP MODES SHALL REMAIN. OCCUPIED MODE MINIMUM OUTSIDE AIR QUANTITIES SHALL BE ADJUSTED AS FOLLOWS:
  - (E) AC-1: OCCUPIED MODE OUTSIDE AIR SHALL BE ADJUSTED TO 2150 CFM.
  - (E) AC-3: OCCUPIED MODE OUTSIDE AIR SHALL BE ADJUSTED TO 700 CFM.
  - (E) RTU-1: OCCUPIED MODE OUTSIDE AIR SHALL BE ADJUSTED TO 1350 CFM.

#### FIN TUBE RADIATION (FT-1):

- OCCUPIED AND UNOCCUPIED MODE: ALL FIN TUBE RADIATION NOT OTHERWISE MENTIONED SHALL BE TIED TO THE DDC SYSTEM. UPON A CALL FOR HEAT, A WALL MOUNTED THERMOSTAT SHALL CONTROL THE TWO OR THREE WAY VALVE (AS INDICATED) TO MAINTAIN SPACE SETPOINT.
- FIN TUBE WITH (E) FC: HW VALVE SHALL NOT OPEN UNTIL CHW VALVE IS FULLY CLOSED, AND VICE VERSA.

#### COMPUTER ROOM UNIT (CRU-1, CRU-2):

- CRU SHALL HAVE INDEPENDENT MANUFACTURERS CONTROLS. THE BAS SHALL MONITOR ON/OFF OPERATION AND ROOM TEMPERATURE.

#### DUCT MOUNTED REHEAT COIL:

- ON A CALL FOR HEATING, COIL VALVE SHALL OPEN AND MODULATE TO MAINTAIN ROOM TEMPERATURE SETPOINT.

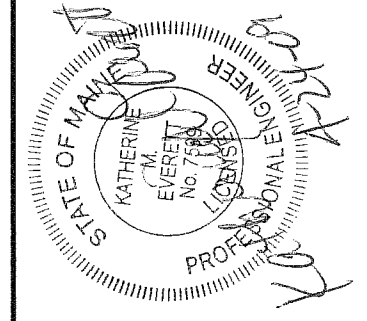
### NOTE:

- SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.
- REFER TO DRAWING A-001 FOR DEFINITION OF ALTERNATES.

REV.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	4-24-09

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144 Fore Street, P.O. Box 418  
Portland, Maine 04104  
Tel: (207) 752-8846  
Fax: (207) 752-8846  
www.smrtinc.com

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SEQUENCE OF  
OPERATIONS

SHEET TITLE	NOT TO SCALE	DATE	GRAPHIC SCALE
		4-24-09	0'
PROJECT MANAGER:	CDP	DATE PLOTTED:	1"
JOB CADDRAWN:	M	DATE PLOTTED:	
DATE OF RECORD:	N/A	DATE PLOTTED:	
SMRT CAD FILE:	M-651-08053	SHEET No.	M-651
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