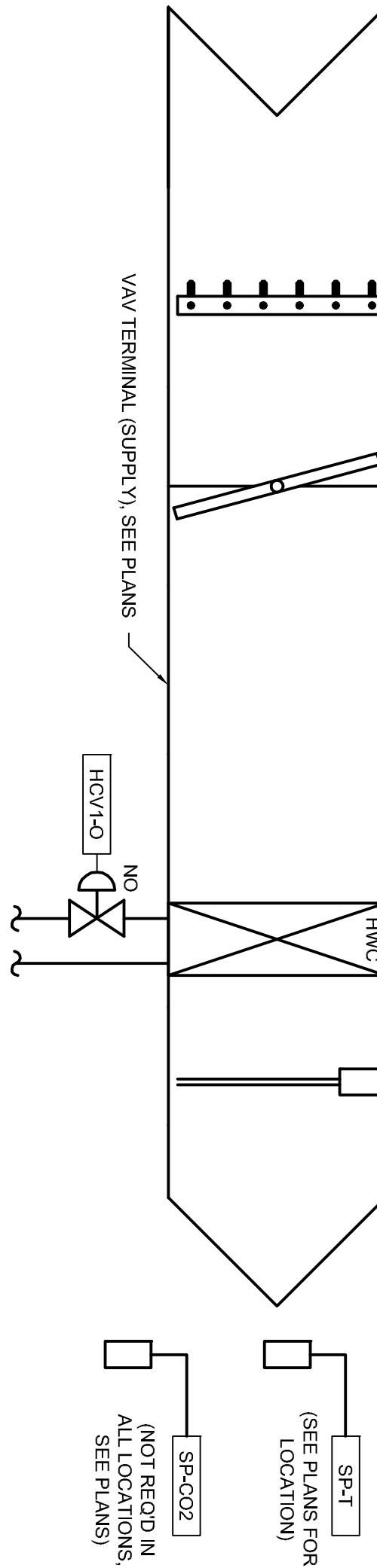
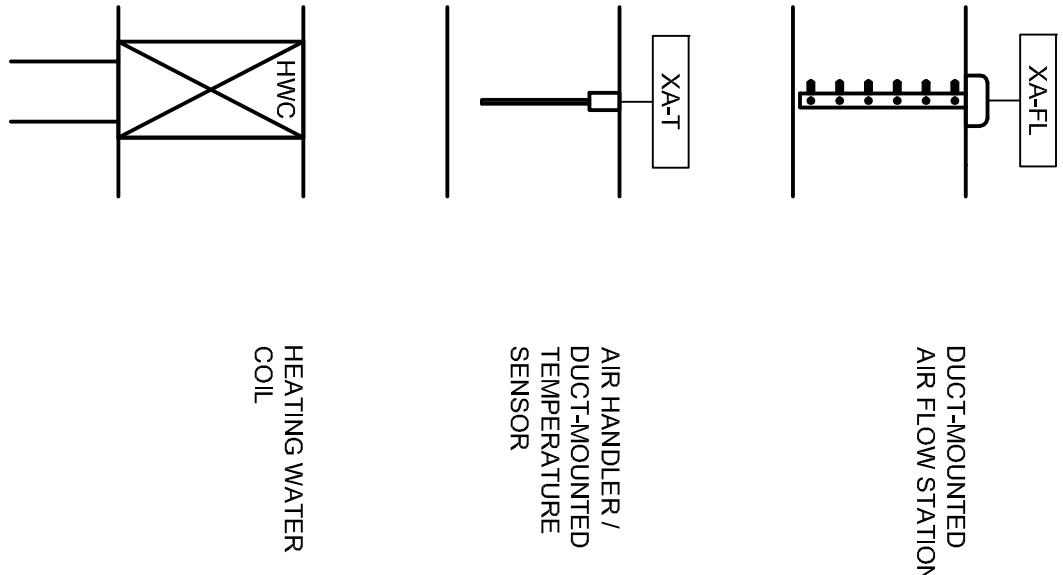


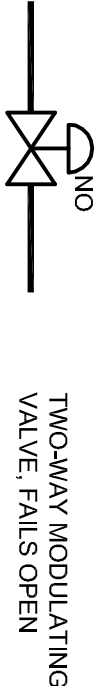
NOTES:






CONTROL DIAGRAM EQUIPMENT SYMBOLS



INSTRUMENT AND FUNCTION SYMBOLS



CONTROL SYSTEM GENERAL NOTES

1. ALL SENSORS INDICATED IN THE SCHEDULE SHALL BE ADJUSTABLE AT THE USER'S COMPUTER WORKSTATION AND A LAPTOP COMPUTER CONNECTED TO THE USER'S CONTROL PANEL FOR CONTROLLER.
2. SOFTWARE COMMUNICATION SHALL BE REQUIRED BETWEEN THE BGS AND EQUIPMENT MANUFACTURERS PROMOTED CONTROL SYSTEMS.
3. REFER TO LOR PLAN FOR THE LOCATIONS OF ALL SYSTEM MONITORED SENSORS AND TRANSMITTERS. TRANSMITTERS ARE INDICATED BY  AND GAS SENSORS ARE INDICATED BY .
4. ALL SENSORS SHALL BE PERFORMED BY THE DOCTOR AND MONITORED BY THE BGS.
5. EACH SCHEDULE WITH A DEFINED OCCUPIED PERIOD SHALL HAVE THE PERIOD INDICATED BY . INDIVIDUALLY, BGS THAT ANY ONE OPERATION CAN HAVE A DIFFERENT OCCUPIED PERIOD.

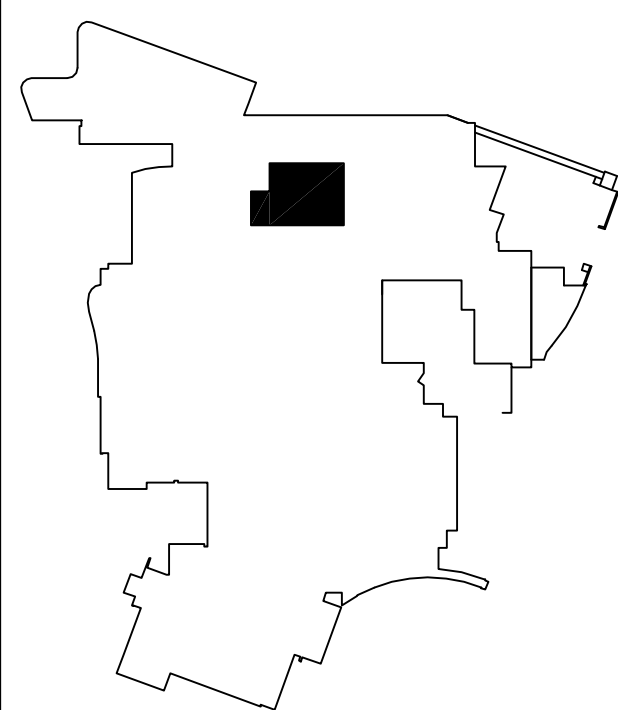
SEQUENCE OF CONTROLS - GENERAL

1. THE OPERATOR SHALL BE ABLE TO IDENTIFY AND LOCATE ALL INDICATORS OF SYSTEM STATUS. INDICATORS OF SYSTEM STATUS SHOULD BE AVAILABLE IN THE DIAGNOSIS SHALL BE COORDINATED WITH AND APPROVED BY THE OPERATOR.
2. THE DESIGN INTENT IS FOR THE CONTROL SYSTEM TO MONITOR PRESSURES, TEMPERATURES, VOLTAGE, AND CURRENT VALUES.
3. ALL EQUIPMENT CONTROLLED BY THE DDC SYSTEM SHALL BE CAPABLE OF MANUAL OPERATION. THE POSITIONS OF ALL VALVES CONTROLLED BY THE DCS SHALL BE CAPABLE OF MANUAL POSITIONING OR USER CLOSED, MODULATED, AUTO/VIA LABEL, POTENTIOMETER AND MANUAL SWITCHES PROVIDED BY DIVISION A.
4. CORRESPONDENCE ALL SENSOR STRATEGIES WITH THE MECHANICAL CONTRACTOR SUBMITTAL. COORDINATE TO ENSURE THAT THE SENSORS MANUFACTURERS RECOMMENDED UPSTREAM AND DOWNSTREAM PIPE DIAMETERS ARE PROVIDED (ESPECIALLY FLOW ELEMENTS AND TRANSDUCERS).
5. PROVIDE COMMUNICATIONS INTERFACE AND SOFTWARE BETWEEN BAS AND EACH EQUIPMENT MANUFACTURER SUPPLIED CONTROL PANEL TO ADDITIONAL AS BUILT INFORMATION. PROVIDE INTERFERENCE PROOFING WHEN REQUIRED TO PREVENT UNDESIRABLE INTERFERENCE FROM OTHER CONTROLS.
6. FIELD STATUS POSITIONS INDICATED ARE POSITIONS THAT DEVICES WILL GO TO WHEN DEREGISTERED.
7. PROVIDE DISCRETE DAMPING OF ALL MODULATING CONTROL LOOPS TO PREVENT HUNTING.
8. IF ANY LOCAL TERMINAL ON UTILITY CONTROLS OF EQUIPMENT MANUFACTURERS CONTROL SYSTEM CLOSES COMMUNICATION WITH THE BAS NETWORK, AN ALARM SHALL BE GENERATED BY THE BAS INDICATING THE LOCATION OF THE FAULT.

VAV TERMINAL UNIT (HW) POINTS SCHEDULE


SP-T	SPACE TEMPERATURE	ANALOG INPUT
SP-CO2	SPACE CO2 LEVEL	ANALOG INPUT

VAV TERMINAL (HW REHEAT) SEQUENCE OF OPERATIONS



100% CD

FULLY SPRINKLERED

Drawing Title HVAC SEQUENCE & CONTROL DIAGRAM	Project Title Wade Park Renovate Medical Library - CARES			Project Number 541-12-103	Office of Facilities Management
	Location Cleveland, Ohio	Checked	Drawn	Building Number 1	
		Date April 25, 2012			
		Drawing Number M-701			
Approved Project Director					 Department of Veterans Affairs

[illegible]