SYSTEM POINT LIST								
SYSTEM POINT DESCRIPTION		ANALOG		BINARY		ALARMS		NOTES
AIR HANDLERS	GRAPHIC	Analog Input (AI)	Analog Output (AO)	Binary Input (BI)	Binary Output (BO)	ALARM AT BAS PC	ALARM AT POST 1 AND POST 2	
VAV AIR HANDLERS	X							Diagramatic system graphic (each)
FAN START/STOP					X			
FAN STATUS				X		X	X	
FAN VFD SPEED			X					
FAN VFD SPEED FEEDBACK		X						
FAN VFD FAIL				X		X		
HIGH STATIC PRESSURE FAN CUTOUT				X				Hard wired to fan starter
CHW VALVE			X					
OA / RETURN AIR DAMPER			X					
DISCHARGE TEMPERATURE		X						
DISCHARGE HUMIDITY		X						
DUCT STATIC PRESSURE		X						
OUTSIDE AIR FLOW MONITOR		X						
MIXED AIR HUMIDITY		X				X		
RETURN AIR TEMPERATURE		X						
RETURN AIR HUMIDITY		X						
RETURN AIR CO2		X				X		
RETURN AIR SMOKE DETECTOR				X		X		
PRE-FILTER DIFFERENTIAL PRESSURE		X				X		
HEPA FILTER DIFFERENTIAL PRESSURE		X				X		
HEGA FILTER DIFFERENTIAL PRESSURE		X				X		
SPACE CO2 (EACH)		X				X		
SPACE DIFFERENTIAL PRESSURE (EACH)		X				X	X	NOTE 1
SPACE RELIEF AIR DAMPER			X					
SPACE SMOKE EXHAUST DAMPER					X			
AIRFLOW (OA AND DISCHARGE AIR)		X				X		Discharge airflow monitor from AHU manufacturer
SA/RA SMOKE DETECTOR				X		X	X	
FIRE ALARM SYSTEM				X		X		
OUTSIDE AIR HANDLER	X							DIAGRAMMATIC SYSTEM GRAPHIC
OUTSIDE TEMPERATURE		X						
OUTSIDE HUMIDITY		X						
OUTSIDE AIR DAMPER W/ ENDSWITCH					X	X		
PRE FILTER DIFFERENTIAL PRESSURE		X				X		
CARBON FILTER DIFFERENTIAL PRESSURE		X				X		
HEATING COIL VALVE			X					
COOLING COIL VALVE			X					
LOW TEMPERATURE LIMIT				X		X		
FAN START/STOP					X			
FAN STATUS				X		X	X	
FAN VFD SPEED			X					
FAN VFD SPEED FEEDBACK		X						
FAN VFD FAIL				X		X		
HIGH STATIC PRESSURE FAN CUTOUT				X				Hard wire to fan starter
DUCT STATIC PRESSURE		X						
DISCHARGE TEMPERATURE		X				X		
DISCHARGE HUMIDITY		X				X		

GENERAL NOTES:

NOTE 1: ALARM AT POST 1, POST 2 IF IN ALARM FOR MORE THAN 5 MINUTES

SYSTEM POINT LIST								
SYSTEM POINT DESCRIPTION		ANALOG		BINARY		ALARMS		NOTES
CHW System	GRAPHIC	Analog Input (AI)	Analog Output (AO)	Binary Input (BI)	Binary Output (BO)	ALARM AT BAS PC	ALARM AT POST 1 AND POST 2	
								Diagramatic system graphic
CHW PUMPS	X							USE FOR ALL VARIABLE SPEED PUMPS
CHW PUMP START/STOP					X			
CHW PUMP STATUS				X		X	X	ALARM AT POST 1, POST 2 IF ALL PUMPS FAIL
CHW PUMP SPEED			X					
CHW PUMP SPEED FEEDBACK		X						
CHW PUMP VFD FAIL				X		X	X	ALARM AT POST 1, POST 2 IF ALL PUMPS FAIL
CHW SUPPLY TEMPERATURE		X				X		NOTES 1,(HIGH AND LOW TEMP ALARM)
CHW RETURN TEMPERATURE		X				X		NOTES 1,(HIGH AND LOW TEMP ALARM)
CHW BYPASS VALVE			X					
CHW DIFFERENTIAL PRESSURE		X				X		
CH FLOW		X				X		
CHILLER (EACH)	x							Diagramitic system graphic
CHILLER ENABLE/DISABLE					X			MUST BE HARDWIRED, NOT COMMUNICATED
CHILLER STATUS				X		X		MUST BE HARDWIRED, NOT COMMUNICATED
CHILLER GENERAL ALARM				X		X	X	MUST BE HARDWIRED, NOT COMMUNICATED
CHILLER KW/TON		X						MAY BE COMMUNICATED
COMPRESSOR FAILURE (EACH)				X		X		MAY BE COMMUNICATED
CHILLER POWER USAGE		X						KWH MAY BE COMMUNICATED
CHILLER RLA		X						AMPS MAY BE COMMUNICATED
CHILLER RUNTIME		X						MAY BE COMMUNICATED
HEAT EXCHANGER	x							
HX SUPPLY TEMPERATURE (BUILDING SIDE)		X				X		
HX RETURN TEMPERATURE (BUILDING SIDE)		X						
HX ISOLATION VALVES (ALL)					X			
CHEMICAL TREATMENT GEN ALARM	X			X		X		
BOILERS	X							DIAGRAMMATIC SYSTEM GRAPHIC
BOILER ENABLE DISABLE					X			MUST BE HARDWIRED, NOT COMMUNICATED
BOILER STATUS						X	X	MUST BE HARDWIRED, NOT COMMUNICATED
BOILER PUMP START/STOP					X			
BOILER PUMP STATUS						X		
HWS SUPPLY AND RTETURN TEMPERATURE		X					X	HIGH AND LOW TEMP ALARM
HWS FLOW		X					X	

GENERAL NOTES:

1. SETPOINT CONTROL FROM CHILLER PANEL

SYSTEM POINT LIST								
SYSTEM POINT DESCRIPTION		ANALOG		BINARY		ALARMS		NOTES
HW System	GRAPHIC	Analog Input (AI)	Analog Output (AO)	Binary Input (BI)	Binary Output (BO)	ALARM AT BAS PC	ALARM AT POST 1 AND POST 2	
								Diagramatic system graphic
HW PUMPS	X							USE FOR ALL CONSTANT VOLUME PUMPS
HW PUMP START/STOP					X			
HW PUMP STATUS				X		X	X	ALARM AT POST 1, POST 2 IF ALL PUMPS FAIL
HW PUMPS W/ VFD	x							USE FOR ALL VARIABLE SPEED PUMPS
HW PUMP START/STOP					X			
HW PUMP STATUS				X		X	X	ALARM AT POST 1, POST 2 IF ALL PUMPS FAIL
HW PUMP SPEED			X					
HW PUMP SPEED FEEDBACK		X						
HW PUMP VFD FAIL				X		X	X	ALARM AT POST 1, POST 2 IF ALL PUMPS FAIL
HW SUPPLY TEMPERATURE		X				X		HIGH AND LOW TEMP ALARM
HW RETURN TEMPERATURE		X				X		HIGH AND LOW TEMP ALARM
HW DIFFERENTIAL PRESSURE		X				X		
HW FLOW		X				X		
BOILER (EACH)	x							
BOILER ENABLE/DISABLE					X			MUST BE HARDWIRED, NOT COMMUNICATED
BOILER STATUS				X		X		MUST BE HARDWIRED, NOT COMMUNICATED
BOILER GENERAL ALARM				X		X	X	MUST BE HARDWIRED, NOT COMMUNICATED
BOILER FUEL USAGE		X						
BOILER TYPE OF FUEL				X				NATURAL GAS OR FUEL OIL
BOILER EFFICIENCY		X						BTUH MAY BE COMMUNICATED
OUTSIDE AIR TEMPERATURE		X						
CHEMICAL TREATMENT GEN ALARM	X			X		X		
DEDICATED HEAT RECOVERY CHILLER	X							IF INSTALLTED ON PROJECT
CIRCULATING PUMPS (EACH)	X							
PUMP START/STOP					X			
PUMP STATUS				X		X		
CHW SUPPLY TEMPERATURE		X						
CHW RETURN TEMPERATURE		X						
HW SUPPLY TEMPERATURE		X						
HW RETURN TEMPERATURE		X						
ISOLATION VALVES (EACH)					X			
CHILLER ENABLE/DISABLE					X			MUST BE HARDWIRED, NOT COMMUNICATED
CHILLER STATUS				X		X		MUST BE HARDWIRED, NOT COMMUNICATED
CHILLER GENERAL ALARM				X		X		MUST BE HARDWIRED, NOT COMMUNICATED
CHILLER KW/TON		X						MAY BE COMMUNICATED
COMPRESSOR FAILURE (EACH)				X		X		MAY BE COMMUNICATED
CHILLER POWER USAGE		X						KWH MAY BE COMMUNICATED
CHILLER RLA		X						AMPS MAY BE COMMUNICATED
CHILLER RUNTIME		X						MAY BE COMMUNICATED
GENERAL NOTES:								

SYSTEM POINT LIST								
SYSTEM POINT DESCRIPTION		ANALOG		BINARY		ALARMS		NOTES
VARIABLE AIR VOLUME TERMINAL UNITS	GRAPHIC	Analog Input (AI)	Analog Output (AO)	Binary Input (BI)	Binary Output (BO)	ALARM AT BAS PC	ALARM AT POST 1 AND POST 2	
VAV SYSTEMS	X							Diagramatic system graphic (floor by floor)
VAV TERMINAL UNITS (EACH)	X							Diagrammatic graphic for each unit
ZONE TEMPERATURE		X				X	X	HIGH AND LOW ALARMS (NOTE 1)
COOLING SETPOINT			X					
HEATING SETPOINT			X					
AIR VALVE			X					
HW VALVE			X		X			BO IF TRI-STATE VALVE
ELECTRIC HEAT			X		X			BO IF STEP HEATERS
CFM		X				X		
MIN CFM			X					
MAX CFM			X					
HEATING MIN CFM			X					
HEAT STATUS				X				
AUX DISCHARGE TEMPERATURE		X						
UNOCCUPIED COOLING SETPOINT			X					
UNOCCUPIED HEATING SETPOINT			X					
VALVE OVERRIDE					X			
HEAT OVERRIDE					X			
MAX ZONE TEMP GROUP		X				X		
MIN ZONE TEMP GROUP		X				X		
AVERAGE ZONE TEMP GROUP		X						
TOTAL GROUP FLOW		X						
GENERAL NOTES:								
Note 1: Alarm High and Low Temp alarms at Post 1 and Post 2 for all critical spaces (telecom, electrical, computer room)								

SYSTEM POINT LIST								
SYSTEM POINT DESCRIPTION		ANALOG		BINARY		ALARMS		NOTES
MISCELLANEOUS SYSTEMS	GRAPHIC	Analog Input (AI)	Analog Output (AO)	Binary Input (BI)	Binary Output (BO)	ALARM AT BAS PC	ALARM AT POST 1 AND POST 2	
EXHAUST FANS/PRESSURIZATION FANS (EACH)	X							Diagramatic system graphic
FAN START/STOP					X			
FAN STATUS				X		X	X	NOTE 1
FAN SPEED			X					
FAN SPEED FEEDBACK		X						
VFD FAIL				X		X	X	NOTE 1
DUCT STATIC PRESSURE		X						
DAMPER (2-POS)					X			
DAMPER (MODULATING)			X					
CHW PUMP VFD FAIL				X				
FAN COIL UNITS	X							Diagramatic system graphic
FAN START/STOP					X			
FAN STATUS				X		X		
CHILLED WATER VALVE			X					
SPACE TEMPERUATURE		X				X		
COMPUTER ROOM A/C	X							Diagramatic system graphic
SPACE TEMPERUATURE		X				X	X	
GENERAL ALARM				X		X	X	
SPLIT SYSTEM A/C	X							Diagramatic system graphic
SPACE TEMPERUATURE		X				X		
GENERAL ALARM				X				
LOBBY/PAA SPECIAL SYSTEMS	X							
SYSTEM STATUS				X		X	X	
DAMPER POSISTION (EACH)					X			
GENERAL NOTES:								
Note 1: Alarm Pressurization fans failures at Post 1 and Post 2								

SYSTEM POINT LIST								
SYSTEM POINT DESCRIPTION		ANALOG		BINARY		ALARMS		NOTES
MISCELLANEOUS SYSTEMS	GRAPHIC	Analog Input (AI)	Analog Output (AO)	Binary Input (BI)	Binary Output (BO)	ALARM AT BAS PC	ALARM AT POST 1 AND POST 2	
GENERATORS	X							Diagramatic system graphic
GENERAL ALARM				X		X	X	
TANK FUEL LEVEL (EACH)		X				X	X	HIGH AND LOW LEVEL
FUEL PUMP STATUS (EACH)				X		X	X	
GENERATOR STATUS (ON/OFF) (EACH)				X		X	X	TOTALIZE RUN TIME
FUEL SYSTEM	X							
FUEL TANK LEVEL (EACH)		X				X	X	HIGH AND LOW LEVEL
LEAK DETECTION (EACH)				X		X	X	
ENABLE/DISABLE					X			
PUMP STATUS (EACH)				X		X		
GENERAL ALARM				X		X	X	
WATER FILTRATION/BOOSTER PUMPS	X							Diagramatic system graphic
GENERAL ALARM				X		X	X	
PH LEVEL		X				X		
CHLORINE LEVEL (EACH)		X				X		
TANK LEVEL (EACH TANK, POTABLE, DAY, FIRE)		X				X	X	HIGH AND LOW LEVEL
PUMP STATUS (EACH)				X		X	X	
POWER METERING	X							Diagramatic system graphic
POWER CONSUMPTION		X						COMPOUND AND PER BUILDING
WATER METERING	X							Diagramatic system graphic
WATER CONSUMPTION		X						COMPOUND AND PER BUILDING
FUEL METERING	X							Diagramatic system graphic
FUEL CONSUMPTION (fuel oil and gas)		X						COMPOUND AND PER BUILDING
ELEVATORS	X							
GENERAL ALARM				X		X		EACH BUILDING
LABORATORY FUME HOOD (EACH)	X							
ENABLE/DISABLE					X			
STATUS				X		X		
FIRE ALARM	X							
POINTS AS NEEDED						X	X	POINTS AS NEEDED FOR SMOKE SEQUENCES
SEWAGE PUMPS	X							
STATUS (EACH)				X		X		
ALARM				X		X	X	
POWER MONITORING SYSTEM	X							
POINTS AS NEEDED								COMMUNICATED POINTS PER SPECS

GENERAL NOTES: