INPUT/OUTPUT SUMMARY FOR AIR HANDLING UNIT AH-03

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED							INPUTS: ANALOG: CALCULATED					INPUTS: BINARY							OUTPUTS: DIGITAL					OUTPUTS: ANALOG					SYSTEM FEATURES: ALARMS							SYSTEM FEATURES: PROGRAMS								GENERAL						SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	VIBRATIONS	KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER		OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE		DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL		HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WK ORD			COLOR GRAPHIC						
OUTSIDE TEMERATURE	●																																																		
OUTSIDE RELATIVE HUMIDITY (H)			●																																																	
PREHEAT COIL, HC-11	●													●											●				●				●										●				●	●					
PREHEAT COIL, HC-12	●													●											●				●				●										●				●	●					
AIR FILTER, AF-03 (TYP 2)		●																															●														●					2 SENSORS
COOLING COIL, CC-05	●																											●					●														●	●					
COOLING COIL, CC-06	●																											●					●														●	●					
HEATING COIL, HC-09	●													●											●								●										●				●	●					
HEATING COIL, HC-10	●													●											●								●										●				●	●					
SUPPLY FAN, SF-05							●			●				●			●				●									●			●				●			●			●				●	●					
SUPPLY FAN, SF-06							●			●				●			●				●									●			●				●			●			●				●	●					
COLD AIR DECK	●	●			●																												●	●													●						
WARM AIR DECK	●	●			●																												●	●													●						
WARM AIR RELATIVE HUMIDITY			●																														●														●						
SPACE AVERAGE RELATIVE HUMIDITY			●																														●														●						
ROOM TEMPERATURE (TYPICAL 17 ZONES)	●																																●	●													●						
SMOKE DETECTOR (SD-02)																●																													●		●					RETURN AIR
MIXING AIR TEMP	●																																																				
MIXING AIR RELATIVE HUMIDITY			●																																																		
ROOM PRESSURIZATION (TYP 2)		●																																●																			
AIR FLOW DIAGRAM																																																		●			
FUME HOOD EXHAUST SYSTEM (TYP 2)											●			●							●																						●					●		●			
HEPA FILTER		●																															●															●					LOCATE SENSOR AT THE MOST REMOTE HEPA FILTER
RETURN & OUTSIDE AIR DAMPERS (TYP 3)																											●																					●					
FLOOR PLANS																																																		●			
VIBRATIONS FOR FANS							●																										●																				

INPUT/OUTPUT SUMMARY FOR AIR HANDLING UNIT AH-04

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED							INPUTS: ANALOG: CALCULATED					INPUTS: BINARY							OUTPUTS: DIGITAL					OUTPUTS: ANALOG					SYSTEM FEATURES: ALARMS							SYSTEM FEATURES: PROGRAMS								GENERAL						SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	LEVEL	GALLONS	VIBRATIONS	KWH	ENTHALPY	RUN TIME	EFFICIENCY	WET BULB TEMP	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER		OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	MULTI-STAGE		DAMPER POSITION	VALVE POSITION	SET POINT ADJUSTMENT	VANE POSITION	SCR CONTROL		HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF			TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPTION	ENTHALPY OPTION	SMOKE CNT	TREND	ALARM INSTRUCT	MAINT WK ORD			COLOR GRAPHIC						
OUTSIDE TEMERATURE	●								●				●																																							
OUTSIDE RELATIVE HUMIDITY (H)			●																																																	
PREHEAT COIL, HC-13	●													●											●				●				●										●				●	●					
AIR FILTER, AF-03		●																															●														●					
COOLING COIL, CC-05	●																											●					●														●	●				
SUPPLY FAN							●			●				●			●				●									●			●				●			●			●				●	●					
SUPPLY AIR	●	●																															●	●													●						
SUPPLY AIR RELATIVE HUMIDITY			●																														●														●						
ROOM TEMPERATURE (TYPICAL 20 ZONES)	●																																●	●													●						
SPACE AVERAGE RELATIVE HUMIDITY			●																														●														●					SEE PLANS FOR LOCATION
ZONE DUCT HEATERS (TYPICAL 20 ZONES)	●													●											●																						●					
EXHAUST FAN, EF-01											●			●							●															●			●			●			●			●	●					
EXHAUST FAN, EF-02											●			●							●															●			●			●			●			●	●					
SMOKE DETECTOR																●																													●							
AIR FLOW DIAGRAM																																																		●			
ECONOMIZER DAMPERS																											●																●					●					
FLOOR PLANS																																																		●			

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS LA-H-001 AND LA-H-002.
2. FOR SEQUENCE OF OPERATION SEE SHEET LA-H-141.

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REFERENCES: DRAWING NO. | DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
1	8-7-98	DJB	AA	AA		ISSUED FOR AS-BUILT

ISSUED FOR CONSTRUCTION

DRAWN	CLP	11-15-96
CHECKED	MN	10-25-96
ENGINEER	AA	1-23-96
PROJ	TDM	11-15-96

AS-BUILT DRAWINGS

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE: HVAC CORNER STATION SEQUENCES OF OPERATION & I/O SUMMARY SHEET 2

SCALE: NONE | CONTRACT NUMBER: PP150969 | PROJECT NUMBER: 8094

SHEET NUMBER: LA-H-142 | REVISIONS: 1

LIGOLAF.BDR