NOTES:

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

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	●													●										●						●								●				●	●		
HUMIDIFIER, HU-05			●											●										●			●			●	●							●				●	●		
HUMIDIFIER, HU-06			●											●										●			●			●	●							●				●	●		
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	●																									●				●												●	●		
HUMIDIFIER, HU-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																																												●	

LIGO-D960358-01-O

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
1	5-15-98	CP				ISSUED FOR AS-BUILT

REFERENCES — DRAWING NO. / DESCRIPTION

REVISIONS

ISSUED FOR CONSTRUCTION
DRAWN CLP 6-24-96
CHECKED
ENGINEER
PROJ

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. 1 - HANFORD, WASHINGTON

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

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

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