PACKAGED AIR HANDLING UNIT SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	MIN SP (IN. WG)	FAN TYPE	FAN ACFM	FAN BHP	FAN RPM	MOTOR HP	MOTOR VOLTS/PH/HZ	MOTOR RPM	MOTOR TYPE	CHILLED WATER COIL TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	MAX FACE VEL (FPM)	ACFM	MAX AIR PD (IN. WG)	ROWS	MAX FPI	EAT *FDB	EAT *FWB	LAT *FDB	LAT *FWB	EWT (°F)	LWT (°F)	GPM	MAX WTR PD (FT)	ELECTRIC HEATING COIL HEATING CAPACITY (KW)	NUMBER OF STAGES	VOLTS/PH/HZ	DUCT SIZE (IN)	FILTERS TYPE	EFF (%)	QTY	SIZE (IN.)	PD (IN. WG) CLEAN	PD (IN. WG) REPLACE-MENT	OPER WT (LB)	MANUFACTURER/ MODEL NO.	MIN OUTSIDE AIR CFM	REMARKS
W-CS-160-AH-04	OSB	OSB (OFFICES)	DRAW THRU SINGLE ZONE	4.5	CENT	10600	13	1100	15	460/3/60	1750	DP	374	360	445	9700	0.75	8	11	87.4	64.8	52.2	51.2	42	54	70	11	—	—	—	—	TA	65	3 3	16X25X4 20X20X4	0.35	1.0	900	CARRIER CENTRAL 39L-B-2-21-3	2880	
W-CS-191-AH-05	MAINTENANCE BUILDING	MAINTENANCE BUILDING	DRAW THRU	1.75	CENT	1500	0.8	1500	1.0	460/3/60	1750	DP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	TA	30	2	16X16X2	0.2	0.75	150	CARRIER CENTRAL 39L-B-1-3-4	750	

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS WA-H-001 AND WA-H-002.

CONVECTOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	POWER KW	POWER VOLT/PH/HZ	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-195-HT-01	MAINTENANCE BUILDING	FIRE PUMP ROOM	ELECTRIC	2.0	277/1/60	50	CHROMALOX HCH	
W-CS-195-HT-02	MAINTENANCE BUILDING	FIRE PUMP ROOM	ELECTRIC	2.0	277/1/60	50	CHROMALOX HCH	
W-CS-194-HT-03	MAINTENANCE BUILDING	DOMESTIC PUMP ROOM	ELECTRIC	1.5	277/1/60	50	CHROMALOX HCH	
W-CS-196-HT-04	MAINTENANCE BUILDING	ELECTRIC ROOM	ELECTRIC	1.5	277/1/60	50	CHROMALOX HCH	

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	FAN ACFM	FAN MIN TSP (IN. WG)	FAN RPM	FAN DRIVE	FAN BHP	MOTOR HP	MOTOR VOLTS/PH/HZ	MOTOR RPM	MOTOR TYPE	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-SF-05	LVEA	OSB	VANE AXIAL	12,000	6.5	1770	DIRECT	21.7	25	460/3/60	1770	DP	1800	JOY 29-21-2000-1770	TWO STAGE, 2000 SERIES
W-CS-107-SF-06	LVEA	OSB	VANE AXIAL	12,000	6.5	1770	DIRECT	21.7	25	460/3/60	1770	DP	1800	JOY 29-21-2000-1770	TWO STAGE
W-MA-203-SF-01	MID STATION A	MID STATION A	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE, 1000 SERIES
W-MA-203-SF-02	MID STATION A	MID STATION A	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE, STANDBY
W-MB-203-SF-01	MID STATION B	MID STATION B	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE
W-MB-203-SF-02	MID STATION B	MID STATION B	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE, STANDBY
W-EA-203-SF-01	END STATION A	END STATION A	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE
W-EA-203-SF-02	END STATION A	END STATION A	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE, STANDBY
W-EB-203-SF-01	END STATION B	END STATION B	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE
W-EB-203-SF-02	END STATION B	END STATION B	VANE AXIAL	13,200	6.0	1770	DIRECT	18.5	25	460/3/60	1770	DP	1800	29-17-1000-1770	TWO STAGE, STANDBY
W-CS-149-EF-01	OSB	OSB	IN-LINE	950	0.5	1725	DIRECT	--	1/3	120/1/60	1160	DP	82	GREENHECK BSQ-130-B	
W-CS-137-EF-02	OSB	OSB	IN-LINE	200	0.5	1725	DIRECT	--	1/6	120/1/60	1550	DP	46	GREENHECK BSQ-90-D	
W-MA-203-EF-01	MID STATION A	MID STATION A	IN-LINE	80	0.375	1725	DIRECT	--	1/12	120/1/60	1300	DP	25	GREENHECK BSQ-75-G	
W-MB-203-EF-01	MID STATION B	MID STATION B	IN-LINE	80	0.375	1725	DIRECT	--	1/12	120/1/60	1300	DP	25	GREENHECK BSQ-75-G	
W-EA-203-EF-01	END STATION A	END STATION A	IN-LINE	80	0.375	1725	DIRECT	--	1/12	120/1/60	1300	DP	25	GREENHECK BSQ-75-G	
W-EB-203-EF-01	END STATION B	END STATION B	IN-LINE	80	0.375	1725	DIRECT	--	1/12	120/1/60	1300	DP	25	GREENHECK BSQ-75-G	
W-CS-168-EF-03	OSB	FUME HOOD #1	IN-LINE	800	0.5	1160	DIRECT	0.20	0.25	120/1/60	1160	EP	30	HARTZELL GDVA-18	FIBERGLASS CONSTRUCTION EXPLOSION PROOF MOTOR
W-CS-168-EF-04	OSB	FUME HOOD #2	IN-LINE	800	0.5	1160	DIRECT	0.20	0.25	120/1/60	1160	EP	30	HARTZELL GDVA-18	FIBERGLASS CONSTRUCTION EXPLOSION PROOF MOTOR

CHILLED WATER CIRCULATING PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	FLUID PUMPED	MAX FLUID TEMP (°F)	GPM	TOTAL HEAD (FT)	NPSH (FT)	BHP	MOTOR HP	MOTOR VOLTS/PH/HZ	MOTOR RPM	MOTOR TYPE	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-MA-200-WP-01	MID STN A	MID STN A	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL
W-MA-200-WP-02	MID STN A	MID STN A	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL (STANDBY)
W-MB-200-WP-01	MID STN B	MID STN B	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL
W-MB-200-WP-02	MID STN B	MID STN B	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL (STANDBY)
W-EA-200-WP-01	END STN A	END STN A	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL
W-EA-200-WP-02	END STN A	END STN A	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL (STANDBY)
W-EB-200-WP-01	END STN B	END STN B	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL
W-EB-200-WP-02	END STN B	END STN B	CENTRIFUGAL	40% GLYCOL	60	105	130	6	6	7 1/2	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1 1/4 X1 1/2 X7)	40% GLYCOL (STANDBY)

AIR FILTER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	ACFM	EFFICIENCY PERCENT (%) *	QTY	SIZE (IN.)	PD (IN. WG) CLEAN	PD (IN. WG) REPLACE-MENT	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-AF-03	CORNER STATION	OSB (LAB)	TA	24,000	90	16	24X24X12	0.56	1.2	AAF VARICELL	X
					30	16	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-MA-203-AF-01	MID STATION A	MID STATION A	TA	13,200	90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-MA-203-AF-02	MID STATION A	MID STATION A	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-MB-203-AF-01	MID STATION B	MID STATION B	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-MB-203-AF-02	MID STATION B	MID STATION B	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-EA-203-AF-01	END STATION A	END STATION A	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-EA-203-AF-02	END STATION A	END STATION A	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-EB-203-AF-01	END STATION B	END STATION B	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER
W-EB-203-AF-02	END STATION B	END STATION B	TA		90	8	24X24X12	0.56	1.2	AAF VARICELL	X
					30	8	24X24X2	0.3	0.75	AAF AMAIR 300X	PRE-FILTER

* IN ACCORDANCE WITH ASHRAE STD 52.1

AIR COMPRESSOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	COMPRESSOR TYPE	ACFM	PSIG	MIN TANK CAPACITY (GAL)	HP	VOLTS/PH/HZ	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-MA-200-AC-01	CHILLER YARD	MID STATION "A"	RECIPROCATING	17	100	120	5	460/3/60	1250	KAESER SX	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION
W-MA-200-AC-02	CHILLER YARD	MID STATION "A"	RECIPROCATING	17	100		5	460/3/60			
W-MB-200-AC-01	CHILLER YARD	MID STATION "B"	RECIPROCATING	17	100	120	5	460/3/60	1250	KAESER SX	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION
W-MB-200-AC-02	CHILLER YARD	MID STATION "B"	RECIPROCATING	17	100		5	460/3/60			
W-EA-200-AC-01	CHILLER YARD	END STATION "A"	RECIPROCATING	17	100	120	5	460/3/60	1250	KAESER SX	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION
W-EA-200-AC-02	CHILLER YARD	END STATION "A"	RECIPROCATING	17	100		5	460/3/60			
W-EB-200-AC-01	CHILLER YARD	END STATION "B"	RECIPROCATING	17	100	120	5	460/3/60	1250	KAESER SX	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION
W-EB-200-AC-02	CHILLER YARD	END STATION "B"	RECIPROCATING	17	100		5	460/3/60			

GLYCOL FEED PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	FLOW RATE (GPM)	PRESSURE RANGE (PSIG)	HP	VOLTS/PH/HZ	OPERATING WT (LBS)	MANUFACTURER/ MODEL NO.	TANK CAPACITY (GAL)	REMARKS
W-MA-203-GP-01	MECH ROOM	MID STATION "A"	1.7	10-70	0.5	110/3/60	500	WESSELS GMP-2052	50	SELF-CONTAINED CONTROLS
W-MB-203-GP-01	MECH ROOM	MID STATION "B"	1.7	10-70	0.5	110/3/60	500	WESSELS GMP-2052	50	SELF-CONTAINED CONTROLS
W-EA-203-GP-01	MECH ROOM	END STATION "A"	1.7	10-70	0.5	110/3/60	500	WESSELS GMP-2052	50	SELF-CONTAINED CONTROLS
W-EB-203-GP-01	MECH ROOM	END STATION "B"	1.7	10-70	0.5	110/3/60	500	WESSELS GMP-2052	50	SELF-CONTAINED CONTROLS

CHEMICAL POT FEEDER SCHEDULE

UNIT NO.	LOCATION	MIN SIZE (GAL)	OPER WT (LB)	CONSTRUCTION PRESSURE (PSIG)	MANUFACTURER/ MODEL NO.	REMARKS
W-MA-203-CF-01	MID STATION A	5	100	125	J.L. WINGERT 5	
W-MB-203-CF-01	MID STATION B	5	100	125	J.L. WINGERT 5	
W-EA-203-CF-01	END STATION A	5	100	125	J.L. WINGERT 5	
W-EB-203-CF-01	END STATION B	5	100	125	J.L. WINGERT 5	

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REFERENCES

DRAWING NO.	DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
2	5-15-98	CP				ISSUED FOR AS-BUILT
1	3-20-97	WNK	AA	AA	TDM	REVISED AIR HANDLING UNIT SCHEDULE

0 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

LIGO-D960346-02-O

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 1 - HANFORD, WASHINGTON

TITLE
HVAC
EQUIPMENT SCHEDULES
SHEET 2

SCALE: NONE
CONTRACT NUMBER: PP150969
PROJECT NUMBER: 8094
SHEET NUMBER: WA-H-004
REVISIONS: 2

LIGOWAF.BDR