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)	CHILLED WATER COIL SENSIBLE CAPACITY (BTUH)	CHILLED WATER COIL MAX FACE VEL (FPM)	CHILLED WATER COIL ACFM	CHILLED WATER COIL MAX AIR PD (IN. WG)	CHILLED WATER COIL ROWS	CHILLED WATER COIL MAX FPI	CHILLED WATER COIL EAT *FDB	CHILLED WATER COIL EAT *FWB	CHILLED WATER COIL LAT *FDB	CHILLED WATER COIL LAT *FWB	CHILLED WATER COIL EWT (°F)	CHILLED WATER COIL LWT (°F)	CHILLED WATER COIL GPM	CHILLED WATER COIL MAX WTR PD (FT)	ELECTRIC HEATING COIL HEATING CAPACITY (KW)	ELECTRIC HEATING COIL NUMBER OF STAGES	ELECTRIC HEATING COIL VOLTS/PH/HZ	ELECTRIC HEATING COIL DUCT SIZE (IN)	FILTERS TYPE	FILTERS EFF (%)	FILTERS QTY	FILTERS SIZE (IN.)	FILTERS PD (IN. WG) CLEAN	FILTERS PD (IN. WG) REPLACEMENT	OPER WT (LB)	MANUFACTURER/ MODEL NO.	MIN OUTSIDE AIR CFM	REMARKS
L-CS-160-AH-04	OSB	OSB (OFFICES)	DRAW THRU SINGLE ZONE	4.5	CENT	10600	13	1100	15	460/3/60	1750	DP	475	360	445	9700	0.95	8	11	86.5	68.1	52.0	51.8	42	54.3	88	11	—	—	—	—	TA	65	3 3	16X25X4 20X20X4	0.35	1.0	900	CARRIER CENTRAL 39L-B-2-21-3	2880	
L-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	

CONVECTOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	POWER KW	POWER VOLT/PH/HZ	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
L-CS-195-HT-01	MAINTENANCE BUILDING	FIRE PUMP ROOM	ELECTRIC	1.5	277/1/60	50	CHROMALOX HCH	
L-CS-195-HT-02	MAINTENANCE BUILDING	FIRE PUMP ROOM	ELECTRIC	1.5	277/1/60	50	CHROMALOX HCH	
L-CS-194-HT-03	MAINTENANCE BUILDING	DOMESTIC PUMP ROOM	ELECTRIC	1.5	277/1/60	50	CHROMALOX HCH	
L-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
L-CS-107-SF-01	LVEA	LVEA	VANE AXIAL	16,600	6.0	1770	DIRECT	23.3	30	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
L-CS-107-SF-02	LVEA	LVEA	VANE AXIAL	16,600	6.0	1770	DIRECT	23.3	30	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
L-CS-107-SF-03	LVEA	LVEA	VANE AXIAL	16,600	6.0	1770	DIRECT	23.3	30	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
L-CS-107-SF-04	LVEA	LVEA	VANE AXIAL	16,600	6.0	1770	DIRECT	23.3	30	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
L-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
L-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
L-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
L-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
L-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
L-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
L-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	
L-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	
L-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	
L-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	
L-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
L-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
L-CS-190-WP-01	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	367	125	10	17	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (2½X3X7)	25% GLYCOL
L-CS-190-WP-02	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	367	125	10	17	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (2½X3X7)	25% GLYCOL
L-CS-190-WP-03	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	367	125	10	17	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (2½X3X7)	25% GLYCOL (STANDBY)
L-EA-200-WP-01	END STN A	END STN A	CENTRIFUGAL	40% GLYCOL	60	105	120	6	5	7½	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1½X1½X7)	25% GLYCOL
L-EA-200-WP-02	END STN A	END STN A	CENTRIFUGAL	40% GLYCOL	60	105	120	6	5	7½	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1½X1½X7)	25% GLYCOL (STANDBY)
L-EB-200-WP-01	END STN B	END STN B	CENTRIFUGAL	40% GLYCOL	60	105	120	6	5	7½	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1½X1½X7)	25% GLYCOL
L-EB-200-WP-02	END STN B	END STN B	CENTRIFUGAL	40% GLYCOL	60	105	120	6	5	7½	460/3/60	3500	CENT	400	PACO, TYPE L 1270-7 (1½X1½X7)	25% 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
L-CS-107-AF-01	CORNER STATION	LVEA	TA	33,200	90 30	24 24	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER
L-CS-107-AF-02	CORNER STATION	LVEA	TA	33,200	90 30	24 24	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER
L-CS-107-AF-03	CORNER STATION	OSB (LAB)	TA	24,000	90 30	16 16	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER
L-EA-203-AF-01	END STATION A	END STATION A	TA	13,200	90 30	8 8	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER
L-EA-203-AF-02	END STATION A	END STATION A	TA	13,200	90 30	8 8	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER
L-EB-203-AF-01	END STATION B	END STATION B	TA	13,200	90 30	8 8	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER
L-EB-203-AF-02	END STATION B	END STATION B	TA	13,200	90 30	8 8	24X24X12 24X24X2	0.56 0.3	1.2 0.75	AAF VARICELL AAF AMAIR 300X	X PRE-FILTER

* IN ACCORDANCE WITH ASHRAE STD 52.1

AIR COMPRESSOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	COMPRESSOR TYPE	COMPRESSOR ACFM	COMPRESSOR PSIG	COMPRESSOR MIN TANK CAPACITY (GAL)	COMPRESSOR HP	COMPRESSOR VOLTS/ PH/HZ	OPER WT (LB)	MANUFACTURER	REMARKS
L-CS-190-AC-01	CHILLER YARD	CORNER STATION	RECIPROCATING	17	100	120	5	460/3/60	1250	INGERSOLL RAND	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION. THE AIR DRYER SHALL BE INSTALLED NEXT TO THE AIR COMPRESSOR AT CHILLER YARD.
L-CS-190-AC-02	CHILLER YARD	CORNER STATION	RECIPROCATING	17	100		5	460/3/60			
L-EA-200-AC-01	CHILLER YARD	END STATION "A"	RECIPROCATING	17	100	120	5	460/3/60	1250	INGERSOLL RAND	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION. THE AIR DRYER SHALL BE INSTALLED NEXT TO THE AIR COMPRESSOR AT CHILLER YARD.
L-EA-200-AC-02	CHILLER YARD	END STATION "A"	RECIPROCATING	17	100		5	460/3/60			
L-EB-200-AC-01	CHILLER YARD	END STATION "B"	RECIPROCATING	17	100	120	5	460/3/60	1250	INGERSOLL RAND	AFTERCOOLER DESICCANT DRYER FOR -40°F DEW POINT, OUTDOOR CONSTRUCTION. THE AIR DRYER SHALL BE INSTALLED NEXT TO THE AIR COMPRESSOR AT CHILLER YARD.
L-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
L-CS-107-GP-01	MECH ROOM	CORNER STATION	1.7	10-70	0.5	110/3/60	1000	WESSELS GMP-2102	100	SELF-CONTAINED CONTROLS
L-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
L-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
L-CS-107-CF-01	CORNER STATION	5	100	125	J.L. WINGERT 5	~~INGERSOLL RAND~~
L-EA-203-CF-01	END STATION A	5	100	125	J.L. WINGERT 5	
L-EB-203-CF-01	END STATION B	5	100	125	J.L. WINGERT 5	

NOTES:

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

This document and the design it covers are the property of PARSONS. They are loaned only with the borrower's expressed written agreement that they will not be reproduced, copied, loaned, exhibited, or used in any other way, except by written consent from PARSONS to the borrower.

LIGO-D960963-02-O

REFERENCES

DRAWING NO.	DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
2	8-7-98	DJB				ISSUED FOR AS-BUILT
1	3-20-97	WNK	AA	AA	TDM	REVISED AIR COMPR AND AHU SCHEDULE

⚠ ISSUED FOR CONSTRUCTION		
DRAWN	CLP	11-15-96
CHECKED	MN	10-25-96
ENGINEER	AA	10-23-96
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 EQUIPMENT SCHEDULES SHEET 2

SCALE	CONTRACT NUMBER	PROJECT NUMBER
NONE	PP150969	8094

SHEET NUMBER: LA-H-004 REVISIONS: 2

LIGOLAF.BDR

Note 1, LIGO, 04/07/99 07:39:26 PM
LIGO-D960963-02-O