

BUILT-UP AIR HANDLING UNIT SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	SUPPLY AIR FAN *	CHILLED WATER COIL *	HEATING COIL *	HUMIDIFIER *	FILTER *	AIR FLOW		REMARKS
									SUPPLY AIR CFM	OUTSIDE AIR CFM	
L-CS-107-AH-01	LVEA BUILDING	LVEA	BUILT-UP	L-CS-107-SF-01 L-CS-107-SF-02	L-CS-107-CC-01 L-CS-107-CC-02	----- -----	----- -----	L-CS-107-AF-01	33,000	2,600	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
L-CS-107-AH-02	LVEA BUILDING	LVEA	BUILT-UP	L-CS-107-SF-03 L-CS-107-SF-04	L-CS-107-CC-03 L-CS-107-CC-04	----- -----	----- -----	L-CS-107-AF-02	33,000	2,600	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
L-CS-107-AH-03	LVEA BUILDING	OSB (LAB)	BUILT-UP	L-CS-107-SF-05 L-CS-107-SF-06	L-CS-107-CC-05 L-CS-107-CC-06	L-CS-107-HC-09 L-CS-107-HC-10	----- -----	L-CS-107-AF-03	24,000	1,720	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
L-EA-203-AH-01	END STATION A	END STATION A	BUILT-UP	L-EA-203-SF-01 L-EA-203-SF-02	L-EA-203-CC-01 L-EA-203-CC-02	----- -----	----- -----	L-EA-203-AF-01 L-EA-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
L-EB-203-AH-01	END STATION B	END STATION B	BUILT-UP	L-EB-203-SF-01 L-EB-203-SF-02	L-EB-203-CC-01 L-EB-203-CC-02	----- -----	----- -----	L-EB-203-AF-01 L-EB-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL

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

* SEE INDIVIDUAL EQUIPMENT SCHEDULES

PACKAGED AIR-COOLED WATER CHILLER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	CHILLED FLUID	AMBIENT		COMPRESSOR		EVAPORATOR				CONDENSER		SINGLE POINT ELECT CONN		OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS					
					DESIGN TEMP (*F DB)	ALTITUDE (FT)	MIN OPER TEMP (*F DB)	TYPE	DRIVER	MINIMUM CAPACITY (TONS)	MAX KW	REFRIGERANT	ENT TEMP (*F)	LVG TEMP (*F)	GPM	MAX PD (FT)				NO. FANS EACH UNIT	HP EACH FAN	VOLTS/ PH/Hz	TOTAL RLA	TOTAL LRA
L-CS-190-CH-01	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	190	296	R-22	53.3	42	367	15	17	1.5	460/3/60	163	896	16800	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F)
L-CS-190-CH-02	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	190	296	R-22	53.3	42	367	15	17	1.5	460/3/60	163	896	16800	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F)
L-CS-190-CH-03	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	190	296	R-22	53.3	42	367	15	17	1.5	460/3/60	163	896	16800	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F), STANDBY
L-EA-200-CH-01	END STATION A	END STATION A	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	59	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F)
L-EA-200-CH-02	END STATION A	END STATION A	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	59	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F), STANDBY
L-EB-200-CH-01	END STATION B	END STATION B	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	59	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F)
L-EB-200-CH-02	END STATION B	END STATION B	AIR COOLED	WATER 40% GLYCOL	100	400	0°F	SCREW	ELECT MOTOR	59	77	R-22	54.8	42	105	15	8	1.1	460/3/60	112	229	4950	TRANE RTAA 70	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (20°F), STANDBY

CHILLED WATER COOLING COIL SCHEDULE

UNIT NO.	LOCATION	SERVICE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MAX FACE VEL (FPM)	ACFM	MAX AIR PD (IN. WG)	ROWS	EAT			LAT			MAX WTR PD (FT)	MANUFACTURER/ MODEL NO.	OVERALL SIZE (IN. X IN.)	REMARKS		
									*FDB	*FWB	*FDB	*FWB	EWT (*F)	LWT (*F)					GPM	
L-CS-107-CC-01	CORNER STATION	LVEA	535	495	435	14,500	0.80	8	11	82.8	63.8	50.7	50.6	42	53.8	106	12	CARRIER BC	72 X 68	25% GLYCOL
L-CS-107-CC-02	CORNER STATION	LVEA	535	495	435	14,500	0.80	8	11	82.8	63.8	50.7	50.6	42	53.8	106	12	CARRIER BC	72 X 68	25% GLYCOL
L-CS-107-CC-03	CORNER STATION	LVEA	535	495	435	14,500	0.80	8	11	82.8	63.8	50.7	50.6	42	53.8	106	12	CARRIER BC	72 X 68	25% GLYCOL
L-CS-107-CC-04	CORNER STATION	LVEA	535	495	435	14,500	0.80	8	11	82.8	63.8	50.7	50.6	42	53.8	106	12	CARRIER BC	72 X 68	25% GLYCOL
L-CS-107-CC-05	CORNER STATION	OSB	430	390	445	11,500	0.80	8	11	83.1	62.7	50.4	50.3	42	54.4	85	15	CARRIER BC	36 X 105	25% GLYCOL
L-CS-107-CC-06	CORNER STATION	OSB	430	390	445	11,500	0.80	8	11	83.1	62.7	50.4	50.3	42	54.4	85	15	CARRIER BC	36 X 105	25% GLYCOL
L-EA-203-CC-01	END STATION A	END STATION A	460	420	460	11,400	0.85	8	11	85.7	64.6	50.5	50.4	42	53.5	95	10	CARRIER BC	2(130 X 60)	25% GLYCOL
L-EA-203-CC-02	END STATION A	END STATION A	460	420	460	11,400	0.85	8	11	85.7	64.6	50.5	50.4	42	53.5	95	10	CARRIER BC	2(130 X 60)	25% GLYCOL
L-EB-203-CC-01	END STATION B	END STATION B	460	420	460	11,400	0.85	8	11	85.7	64.6	50.5	50.4	42	53.5	95	10	CARRIER BC	2(130 X 60)	25% GLYCOL
L-EB-203-CC-02	END STATION B	END STATION B	460	420	460	11,400	0.85	8	11	85.7	64.6	50.5	50.4	42	53.5	95	10	CARRIER BC	2(130 X 60)	25% GLYCOL

EXPANSION TANK SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	MIN CAP (GAL)	MAX WORKING PRESS (PSIG)	MAX OPER TEMP (*F)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
L-CS-107-TK-01	CORNER STATION	CHILLED WATER	DIAPHRAM	45	150	110	510	TACO CX170	CARBON STEEL CONSTRUCTION
L-EA-203-TK-01	END STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	TACO CX84	CARBON STEEL CONSTRUCTION
L-EB-203-TK-01	END STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	TACO CX84	CARBON STEEL CONSTRUCTION

AIR SEPARATOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	MIN CAP (GPM)	SIZE (IN.)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
L-CS-107-AS-01	CORNER STATION	CHILLED WATER	700	6"	750	BELL & GOSSETT R-6	
L-EA-203-AS-01	END STATION A	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
L-EB-203-AS-01	END STATION B	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	

of PARSONS. They are loaned only with the consent of the borrower's expressed written agreement that they will not be used for any other way, except by written consent from PARSONS to the borrower.

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



100 WEST WALNUT STREET
 PASADENA, CALIFORNIA



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D960962-02-0
 LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 SITE NO.2 - LIVINGSTON, LOUISIANA

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
HVAC EQUIPMENT SCHEDULES SHEET 1	NONE	PP150969	8094
SHEET NUMBER		REVISIONS	
LA-H-003		2	

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