

**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	
W-CS-107-AH-03	LVEA BUILDING	OSB (LAB)	BUILT-UP	W-CS-107-SF-05 W-CS-107-SF-06	W-CS-107-CC-05 W-CS-107-CC-06	W-CS-107-HC-09 W-CS-107-HC-10	W-CS-107-HU-05 W-CS-107-HU-06	W-CS-107-AF-03	24,000	1,720	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-MA-203-AH-01	MID STATION A	MID STATION A	BUILT-UP	W-MA-203-SF-01 W-MA-203-SF-02	W-MA-203-CC-01 W-MA-203-CC-02		W-MA-203-HU-01 W-MA-203-HU-02	W-MA-203-AF-01 W-MA-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-MB-203-AH-01	MID STATION B	MID STATION B	BUILT-UP	W-MB-203-SF-01 W-MB-203-SF-02	W-MB-203-CC-01 W-MB-203-CC-02		W-MB-203-HU-01 W-MB-203-HU-02	W-MB-203-AF-01 W-MB-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-EA-203-AH-01	END STATION A	END STATION A	BUILT-UP	W-EA-203-SF-01 W-EA-203-SF-02	W-EA-203-CC-01 W-EA-203-CC-02		W-EA-203-HU-01 W-EA-203-HU-02	W-EA-203-AF-01 W-EA-203-AF-02	13,200	840	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-EB-203-AH-01	END STATION B	END STATION B	BUILT-UP	W-EB-203-SF-01 W-EB-203-SF-02	W-EB-203-CC-01 W-EB-203-CC-02		W-EB-203-HU-01 W-EB-203-HU-02	W-EB-203-AF-01 W-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 WA-H-001 AND WA-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)	LVC TEMP (°F)	GPM	MAX PD (FT)				NO. FANS EACH UNIT	HP EACH FAN	VOLTS/ PHVHZ	TOTAL RLA	TOTAL LRA
W-MA-200-CH-01	MID STATION A	MID STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F)
W-MA-200-CH-02	MID STATION A	MID STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F), STANDBY
W-MB-200-CH-01	MID STATION B	MID STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F)
W-MB-200-CH-02	MID STATION B	MID STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F), STANDBY
W-EA-200-CH-01	END STATION A	END STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F)
W-EA-200-CH-02	END STATION A	END STATION A	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F), STANDBY
W-EB-200-CH-01	END STATION B	END STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°F)
W-EB-200-CH-02	END STATION B	END STATION B	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	55	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 (-10°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)	EAT		LWT (°F)	GPM	MAX WTR PD (FT)	MANUFACTURER/ MODEL NO.	OVERALL SIZE (IN. X IN.)	REMARKS				
								FDB	FWB										
W-CS-107-CC-05	CORNER STATION	OSB	393	387	445	11,500	0.60	8	83.1	62.7	50.9	50	42	50	95	15	COLMAC DX	36 X 105	40% GLYCOL
W-CS-107-CC-06	CORNER STATION	OSB	393	387	445	11,500	0.60	8	83.1	62.7	50.9	50	42	50	95	15	COLMAC DX	36 X 105	40% GLYCOL
W-MA-203-CC-01	MID STATION A	MID STATION A	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-MA-203-CC-02	MID STATION A	MID STATION A	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-MB-203-CC-01	MID STATION B	MID STATION B	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-MB-203-CC-02	MID STATION B	MID STATION B	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-EA-203-CC-01	END STATION A	END STATION A	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-EA-203-CC-02	END STATION A	END STATION A	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-EB-203-CC-01	END STATION B	END STATION B	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% GLYCOL
W-EB-203-CC-02	END STATION B	END STATION B	418	414	460	11,400	0.75	8	118.6	76.3	51	49.9	42	52.8	95	10	COLMAC DX	2130 X 60	40% 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
W-MA-203-TK-01	MID STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	
W-MB-203-TK-01	MID STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	
W-EA-203-TK-01	END STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	
W-EB-203-TK-01	END STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	EXTROL EX 60	

**AIR SEPARATOR SCHEDULE**

UNIT NO.	LOCATION	SERVICE	MIN CAP (GPM)	SIZE (IN.)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-MA-203-AS-01	MID STATION A	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
W-MB-203-AS-01	MID STATION B	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
W-EA-203-AS-01	END STATION A	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	
W-EB-203-AS-01	END STATION B	CHILLED WATER	170	3"	200	BELL & GOSSETT R-3	

ISSUED FOR CONSTRUCTION

DRAWN	CLP	6-24-98
CHECKED	ME	7/3/96
ENGINEER	AA	7/3/96
PROJ	MDW	7/8/96

**AS-BUILT DRAWINGS**

ISSUED FOR AS-BUILT

100 WEST WALNUT STREET  
PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D960345-01-0

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

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

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