

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-01	LVEA BUILDING	LVEA	BUILT-UP	W-CS-107-SF-01 W-CS-107-SF-02	W-CS-107-CC-01 W-CS-107-CC-02	----	W-CS-107-HU-01 W-CS-107-HU-02	W-CS-107-AF-01	33,000	2,600	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
W-CS-107-AH-02	LVEA BUILDING	LVEA	BUILT-UP	W-CS-107-SF-03 W-CS-107-SF-04	W-CS-107-CC-03 W-CS-107-CC-04	----	W-CS-107-HU-03 W-CS-107-HU-04	W-CS-107-AF-02	33,000	2,600	CONTRACTOR WILL SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS FOR APPROVAL
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

OMIT

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		MINIMUM CAPACITY (TONS)	MAX KW	REFRIGERANT	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				ENT TEMP (*F)	LVG TEMP (*F)	GPM	MAX PD (FT)	NO. FANS EACH UNIT	HP EACH FAN	VOLTS/ PH/Hz				TOTAL RLA
W-CS-190-CH-01	CORNER STATION	CORNER STATION	AIR COOLED	WATER	105	400	0°F	SCREW	ELECT MOTOR	185	296	R-22	53.3	42	365	15	17	1.5	460/3/60	163	896	16800	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F)
W-CS-190-CH-02	CORNER STATION	CORNER STATION	AIR COOLED	WATER	105	400	0°F	SCREW	ELECT MOTOR	185	296	R-22	53.3	42	365	15	17	1.5	460/3/60	163	896	16800	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F)
W-CS-190-CH-03	CORNER STATION	CORNER STATION	AIR COOLED	WATER	105	400	0°F	SCREW	ELECT MOTOR	185	296	R-22	53.3	42	365	15	17	1.5	460/3/60	163	896	16800	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS, LOW AMBIENT (-10°F), STANDBY
W-MA-200-CH-01	MID STATION A	MID STATION A	AIR COOLED	WATER	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	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	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	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	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-02	END STATION A	END STATION A	AIR COOLED	WATER	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	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	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

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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	MAX FPI	EAT				LAT		EWT (*F)	LWT (*F)	GPM	MAX WTR PD (FT)	MANUFACTURER/ MODEL NO.	OVERALL SIZE (IN. X IN.)	REMARKS
										*FDB	*FWB	*FDB	*FWB	*FDB	*FWB							
W-CS-107-CC-01	CORNER STATION	LVEA	505	500	435	14,500	0.70	8	11	83.7	62.8	51	50	42	53	106	12	CARRIER BC	72 X 68	40% GLYCOL		
W-CS-107-CC-02	CORNER STATION	LVEA	505	500	435	14,500	0.70	8	11	83.7	62.8	51	50	42	53	106	12	CARRIER BC	72 X 68	40% GLYCOL		
W-CS-107-CC-03	CORNER STATION	LVEA	505	500	435	14,500	0.70	8	11	83.7	62.8	51	50	42	53	106	12	CARRIER BC	72 X 68	40% GLYCOL		
W-CS-107-CC-04	CORNER STATION	LVEA	505	500	435	14,500	0.70	8	11	83.7	62.8	51	50	42	53	106	12	CARRIER BC	72 X 68	40% GLYCOL		
W-CS-107-CC-05	CORNER STATION	OSB	393	387	445	11,500	0.60	8	8	83.1	62.7	50.9	50	42	50	95	15	CARRIER BC	36 X 105	40% GLYCOL		
W-CS-107-CC-06	CORNER STATION	OSB	393	387	445	11,500	0.60	8	8	83.1	62.7	50.9	50	42	50	95	15	CARRIER BC	36 X 105	40% GLYCOL		
W-MA-203-CC-01	MID STATION A	MID STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-MA-203-CC-02	MID STATION A	MID STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-MB-203-CC-01	MID STATION B	MID STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-MB-203-CC-02	MID STATION B	MID STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-EA-203-CC-01	END STATION A	END STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-EA-203-CC-02	END STATION A	END STATION A	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-EB-203-CC-01	END STATION B	END STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		
W-EB-203-CC-02	END STATION B	END STATION B	418	414	460	11,400	0.75	8	11	86.7	63.7	51	49.9	42	52.8	95	10	CARRIER BC	2(30 X 60)	40% GLYCOL		

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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-CS-107-TK-01	CORNER STATION	CHILLED WATER	DIAPHRAM	45	150	110	510	TACO CX170	
W-MA-203-TK-01	MID STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	TACO CX84	
W-MB-203-TK-01	MID STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	TACO CX84	
W-EA-203-TK-01	END STATION A	CHILLED WATER	DIAPHRAM	23	150	110	285	TACO CX84	
W-EB-203-TK-01	END STATION B	CHILLED WATER	DIAPHRAM	23	150	110	285	TACO CX84	

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AIR SEPARATOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	MIN CAP (GPM)	SIZE (IN.)	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-AS-01	CORNER STATION	CHILLED WATER	700	6"	750	BELL & GOSSETT R-6	
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	

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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
C	5-22-96	CLP	AA	AA	AA	BID ADDENDUM #2
B	4-19-96	CLP	ME	AA	TDM	FINAL DESIGN REVIEW & BID
A	10-31-95	CLP	ME	AA	TDM	PRELIMINARY DESIGN REVIEW

DRAWN	CLP
CHECKED	
ENGINEER	
PROJ	

100 WEST WALNUT STREET
 PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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

SCALE: NONE CONTRACT NUMBER: PP150969 PROJECT NUMBER: 8094

SHEET NUMBER: WA-H-003 REVISIONS:

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