

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-CC-01	-----	W-CS-107-HU-01	W-CS-107-AF-01	43,000	3,100	CONTRACTOR WILL SUBMIT SHOP DRAWINGS FOR CONSTRUCTION DETAILS
				W-CS-107-SF-02	W-CS-107-CC-02	-----	W-CS-107-HU-02				
W-CS-107-AH-02	LVEA BUILDING	LVEA	BUILT-UP	W-CS-107-SF-03	W-CS-107-CC-03	-----	W-CS-107-HU-03	W-CS-107-AF-02	43,000	3,100	CONTRACTOR WILL SUBMIT SHOP DRAWINGS FOR CONSTRUCTION DETAILS
				W-CS-107-SF-04	W-CS-107-CC-04	-----	W-CS-107-HU-04				

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)	LYG TEMP (°F)	GPM				MAX PD (FT)	NO. FANS EACH UNIT	HP EACH FAN	VOLTS/ PH/Hz	TOTAL RLA	TOTAL LRA
W-CS-190-CH-01	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	227	366	R-22	54.8	42	365	15	21	1.5	460/3/60	489	1222	18,000	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS. LOW AMBIENT (-10°F)
W-CS-190-CH-02	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	227	366	R-22	54.8	42	365	15	21	1.5	460/3/60	489	1222	18,000	TRANE RTAA 240	ALL PERFORMANCE DATA ARE AT ACTUAL CONDITIONS. LOW AMBIENT (-10°F)
W-CS-190-CH-03	CORNER STATION	CORNER STATION	AIR COOLED	WATER 40% GLYCOL	105	400	0°F	SCREW	ELECT MOTOR	227	366	R-22	54.8	42	365	15	21	1.5	460/3/60	489	1222	18,000	TRANE RTAA 240	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	MAX FPI	EAT		LAT		EWT (°F)	LWT (°F)	GPM	MAX WTR PD (FT)	MANUFACTURER/ MODEL NO.	OVERALL SIZE (IN. X IN.)	REMARKS
										°F DB	°F WB	°F DB	°F WB							
W-CS-107-CC-01	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	CARRIER BC	96 X 68	40% GLYCOL
W-CS-107-CC-02	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	CARRIER BC	96 X 68	40% GLYCOL
W-CS-107-CC-03	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	CARRIER BC	96 X 68	40% GLYCOL
W-CS-107-CC-04	CORNER STATION	LVEA	640	630	410	18,000	0.60	8	11	82.9	62.1	50.3	49.3	42	56.4	108	15	CARRIER BC	96 X 68	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-CS-107-TK-01	CORNER STATION	CHILLED WATER	DIAPHRAM	79	150	110	510	TACO CX170	

AIR SEPARATOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	MIN CAP (GPM)	CONN 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	

CHILLED WATER CIRCULATING PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	FLUID PUMPED	MAX FLUID TEMP (°F)	TOTAL HEAD (FT)	NPSH (FT)	BHP	HP	MOTOR		OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS		
										VOLTS/ PH/Hz	RPM					
W-CS-190-WP-01	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	365	140	10	18	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (25 X 37)	40% GLYCOL
W-CS-190-WP-02	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	365	140	10	18	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (25 X 37)	40% GLYCOL
W-CS-190-WP-03	CORNER STN	CORNER STN	CENTRIFUGAL	40% GLYCOL	60	365	140	10	18	20	460/3/60	3500	CENT	650	PACO, TYPE L 2570-7 (25 X 37)	40% GLYCOL (STANDBY)

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	FAN				MOTOR				OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS	
				ACFM	MIN TSP (IN. WG)	RPM	DRIVE	BHP	HP	VOLTS/ PH/Hz	RPM				TYPE
W-CS-107-SF-01	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
W-CS-107-SF-02	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
W-CS-107-SF-03	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES
W-CS-107-SF-04	LVEA	LVEA	VANE AXIAL	21,000	6.0	1770	DIRECT	28	40	460/3/60	1770	DP	1800	JOY 29-17-1000-1770	TWO STAGE, 1000 SERIES

CHEMICAL POT FEEDER SCHEDULE

UNIT NO.	LOCATION	MIN SIZE (GAL)	OPER WT (LB)	CONSTRUCTION PRESSURE (PSIG)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-CF-01	CORNER STATION	5	100	125	J.L. WINGERT 5	

AIR FILTER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	ACFM	EFFICIENCY PERCENT (%)	DPT	SIZE (IN.)	PD (IN. WG)		MANUFACTURER/ MODEL NO.	REMARKS
								CLEAN	REPLACE- MENT		
W-CS-107-AF-01	CORNER STATION	LVEA	TA	43,000	80	32	24 X 24 X 12	0.56	1.2	AAF VARICELL	PRE-FILTER
W-CS-107-AF-02	CORNER STATION	LVEA	TA	43,000	80	32	24 X 24 X 12	0.56	1.2	AAF VARICELL	PRE-FILTER

* IN ACCORDANCE WITH ASHRAE STD 52.1

AIR COMPRESSOR SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	ACFM	PSIG	MIN TANK CAPACITY (GAL)	HP	VOLTS/ PH/Hz	OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
W-CS-107-AC-02	MECH ROOM	CORNER STATION	RECIPROCATING	17	100	120	5	460/3/60	1250	JINGERSOL-RAND OLSDS	WITH AFTERCOOLER

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-CS-107-GP-01	MECH ROOM	CORNER STATION	1.7	10-70	0.5	110/3/60	1000	WESSELLS GMP-2102	100	SELF-CONTAINED CONTROLS

not be reproduced, copied, loaned, exhibited, or used in any other way, except by written consent from PARSONS to the borrower.

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

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
A	4-19-96	CLP	ME	AA	AA	FINAL DESIGN REVIEW & BID

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. 1 - HANFORD, WASHINGTON

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
HVAC CORNER STATION EQUIPMENT SCHEDULES SHEET 1	NONE	PP150969	8094
SHEET NUMBER		REVISION	
WA-H-501		A	