

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	43,000	3,100	CONTRACTOR WILL SUBMIT SHOP DRAWINGS FOR CONSTRUCTION DETAILS
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	43,000	3,100	CONTRACTOR WILL SUBMIT SHOP DRAWINGS FOR CONSTRUCTION DETAILS

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 UNIT	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				LWT (*F)	GPM	MAX WTR PD (FT)	MANUFACTURER/ MODEL NO.	OVERALL SIZE (IN. X IN.)	REMARKS	
										*FDB	*FWB	*FDB	*FWB							
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)	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)	GPM	TOTAL HEAD (FT)	NPSH (FT)	BHP	MOTOR				OPER WT (LB)	MANUFACTURER/ MODEL NO.	REMARKS
										HP	VOLTS/ PH/Hz	RPM	TYPE			
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 (2 1/2" X 3 1/2")	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 (2 1/2" X 3 1/2")	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 (2 1/2" X 3 1/2")	40% GLYCOL (STANDBY)

AIR FILTER SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	ACFM	EFFICIENCY PERCENT (%) *	DITY	SIZE (IN.)	PD (IN. WG)		MANUFACTURER/ MODEL NO.	REMARKS
								CLEAN	REPLACE- MENT		
W-CS-107-AF-01	CORNER STATION	LVEA	TA	43,000	90	32	24X24X12	0.56	1.2	AAF VARICELL	PRE-FILTER
W-CS-107-AF-02	CORNER STATION	LVEA	TA	43,000	90	32	24X24X12	0.56	1.2	AAF VARICELL	PRE-FILTER

* IN ACCORDANCE WITH ASHRAE STD 52.1

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

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	INGERSOL-RAND OLSDS	WITH AFTERCOOLER

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 S	


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	WESSELS GMP-2102	100	SELF-CONTAINED CONTROLS


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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	REVISIONS								
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