


CAD FILE: C:\CAD\98046\M5198046 PLOT DATE: MAY 12, 1999 11:00 AM

ITEM	TITUS MODEL	DESCRIPTION	SIZE	MARK
CEILING DIFFUSER	TMRA	ADJ. ROUND DIFF. STEEL OBD, WHITE.	AS INDICATED	CD
			14" DIA.	CD-1
			12" DIA.	CD-2
			10" DIA.	CD-3
			8" DIA.	CD-4
			6" DIA.	CD-5
	MCD	FOUR ADJ. CORES, STEEL OBD, WHITE, FLAT FRAME SURFACE MOUNT (TABLE 1 BORDER)	AS INDICATED	CD
			8"x8"	CD-6
			10"x10"	CD-7
			12"x12"	CD-8
SUPPLY GRILLE	300RL	DOUBLE DEFLECTION, STEEL OBD, WHITE	AS INDICATED	SG
			6"x6"	SG-1
			8"x6"	SG-2
			8"x8"	SG-3
			18"x10"	SG-4
			22"x14"	SG-5
LINEAR DIFFUSER	ML-3B	1" ADJ. SLOTS, ALUM. FLAT BLACK & WHITE ENAMEL, INSULATED PLENUM.	AS INDICATED	LD
			4 SLOTS 60" LONG NC 26	LD-1
			2 SLOTS 48" LONG NC 23	LD-2
RETURN GRILLE	350RL	HORIZ. SINGLE DEFLECTION, FIXED 35 DEG. BLADES, WHITE.	AS INDICATED	RG
			18"x18"	RG-1
			36"x10"	RG-2
			36"x18"	RG-3
			36"x24"	RG-4
TRANSFER GRILLE	350RL	HORIZ. SINGLE DEFLECTION, FIXED 35 DEG. BLADES, WHITE.	AS INDICATED	TG
			24"x12"	TG-1
			24"x24"	TG-2
			72"x24"	TG-3
EXHAUST GRILLE	50F	1/2"x1/2"x1/2" ALUM. WHITE ENAMEL.	AS INDICATED	EG
			6"x6"	EG-1
			8"x8"	EG-2
			10"x10"	EG-3
REMARKS:				
		1. CEILING UNIT FRAME SHALL BE COMPATIBLE WITH CEILINGS; FLAT FRAME SURFACE MOUNT FOR DRYWALL CEILINGS AND WITH LAY-IN PANEL FOR EXPOSED GRID CEILINGS. SEE ARCHITECTURAL PLANS.		
		2. SIZE INDICATES DUCT COLLAR.		

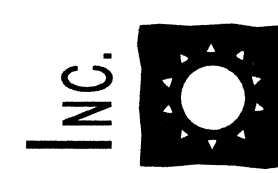
MECHANICAL EQUIPMENT SCHEDULE			
MARK	ITEM	MFR. MODEL	DESCRIPTION
AC-1	PACKAGED VAV AIR CONDITIONING UNIT	TRANE	3200 CFM @ 4.0" TSP 4000 CFM MIN. OSA 50 HP INDOOR FAN 15 HP EXH. FAN.
			COOLING: 1039 MBH TOTAL AND 750 MBH SENSIBLE @ 80/67 EAT AND 85 DAT EER: 9.4
			HEATING: 1000 MBH, 2 STEPS.
			ELECTRICAL: 326 MCA, 460V, 3 PH
			OP. WT.: 15,000 LBS
			MISC.: VAV UNIT W/ SUPPLY FAN & EXH. FAN W/ D'S GENERIC BAS INTERFACE, 100% EXH. FAN W/ STATITRAC, COMPENSATED OSA CONTROL, 2" 30% EFFICIENCY 1A FILTERS, ECONOMIZER W/ LOW LEAK DAMPERS, FIELD BUILT CURB FOR HORIZONTAL DISCHARGE MINIMUM MOTOR EFFICIENCY 91% FOR EXH. FAN 93% FOR SUPPLY FAN
AC-2	ROOFTOP PACKAGE AIR CONDITIONING UNIT	TRANE YCD120	4000 CFM @ 1.00" E.S.P. 5 HP FAN MOTOR
			COOLING: 130.6 MBH TOTAL AND 93.5 MBH SENSIBLE CAP @ 80/67" AND 85" DAT EER: 9.0
			HEATING: 205/150 MBH (H/L) INPUT AND 166/122 MBH (H/L) OUTPUT, NATURAL GAS.
			ELECTRICAL: 33.0 MCA, 480V., 3 PHASE.
			OP. WT.: 1400 LBS.
			MISC.: ECONOMIZER W/ BAROMETRIC RELIEF, ROOF CURB, FARR 30/30 FILTERS.
AC-3	ROOFTOP PACKAGE AIR CONDITIONING UNIT	TRANE YCD090-D4	3000 CFM @ 0.90" E.S.P. 3 HP FAN MOTOR
			COOLING: 97.1 MBH TOTAL AND 67.7 MBH SENSIBLE CAP @ 80/67" AND 85" DAT EER: 9.0
			HEATING: 120 MBH INPUT AND 97 MBH OUTPUT, NATURAL GAS.
			ELECTRICAL: 22.0 MCA, 480V., 3 PHASE.
			OP. WT.: 1200 LBS
			MISC.: ECONOMIZER W/ BAROMETRIC RELIEF, ROOF CURB, FARR 30/30 FILTERS.
AC-4	SPLIT SYSTEM COOLING OUTDOOR UNIT	mitsubishi: PU24EK	EXTERIOR UNIT TO MATCH AC-3A
			ELECTRICAL: 16 MCA, 208/230V., 1 PH
			OP. WT.: 200 LBS
			MISC.: LOW AMBIENT CONTROL TO DF.
AC-4A	DUCTLESS SPLIT-SYSTEM COOLING INDOOR UNIT	mitsubishi: PC24EK	900 CFM
			COOLING: 24 MBH TOTAL @ 80/67 AND 95 DAT EER: 9.9
			HEATING: NONE
			ELECTRICAL: 3 AMPS, 120V., 1 PH
			OP. WT.: 100 LBS
			MISC.: PROVIDE MFRS. 7-DAY THERMOSTAT
EF-1	ROOFTOP CENTRIFUGAL EXHAUSTER	GREENHECK: GB-100-4	700 CFM @ 0.375" S.P. 1100 RPM, BELT DR. 1/4 HP, 120V., 1 PH. 60 LBS. OP. WT. 8 SONES MAX. BACKDRAFT DMPR.
EF-2	ROOFTOP CENTRIFUGAL EXHAUSTER	GREENHECK: GB-90-4	500 CFM @ 0.125" S.P. 850 RPM, BELT DR. 1/4 HP, 120V., 1 PH. 52 LBS. OP. WT. 5 SONES MAX. BACKDRAFT DMPR.
EF-3	ROOFTOP CENTRIFUGAL EXHAUSTER	GREENHECK: GB-60-D	100 CFM @ 0.25" S.P. 1040 RPM, DIRECT DR. 1/60 HP, 120V., 1 PH. 30 LBS. OP. WT. 5 SONES MAX. BACKDRAFT DMPR.
EF-4	ROOFTOP CENTRIFUGAL EXHAUSTER	GREENHECK: GB-180-5	2400 CFM @ 0.5" S.P. 820 RPM, BELT DR. 1/2 HP, 120V., 1 PH. 52 LBS. OP. WT. 10 SONES MAX. BACKDRAFT DMPR.
	SERIES TERMINAL BOX	TITUS: DTG/DFCL	SIZE AND CFM AS INDICATED ON PLAN.
	VAV TERMINAL BOX	TITUS: DESV	SIZE AND CFM AS INDICATED ON PLAN.

BUILDING CODE NOTES:	
ALL SUBMITTALS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND/OR THE ARCHITECT THEN SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PER SECTION 106.3.4.2. APPROVED PLANS AND SPECIFICATIONS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION FROM THE BUILDING OFFICIAL PER SECTION 106.4.1, ADDRESS TO PLANS.	
ENERGY CODE NOTES:	
1. SEE SCHEDULE FOR EQUIPMENT TYPE, CAPACITY AND EFFICIENCY.	
2. PROVIDE THERMOSTAT CONTROLS CAPABLE OF DEADBAND OF 5 DEGREE MINIMUM BETWEEN HEATING AND COOLING.	
3. PROVIDE AUTOMATIC CONTROLS WITH NIGHT SETBACK AND PROGRAMMABLE 7 DAY SCHEDULE.	
4. PROVIDE DAMPERS FOR OUTSIDE AIR INTAKES AND EXHAUST FANS WHICH CLOSE AUTOMATICALLY WHEN THE SYSTEM IS OFF, EXCEPT FOR THOSE SYSTEMS WHICH OPERATE CONTINUOUSLY.	
5. PROVIDE GAS-FIRED HEATING EQUIPMENT WITH MODULATING OR STAGED CONTROL FOR ALL EQUIPMENT OVER 225 MBH.	
6. PROVIDE A MEANS OF BALANCING EVERY AIR SUPPLY OUTLET AND AIR OR WATER TERMINAL DEVICE.	
7. SIMULTANEOUS HEATING AND COOLING IN A ZONE IS NOT PERMITTED.	
8. SEAL TRANSVERSE AND LONGITUDINAL SEAMS OF ALL DUCTWORK.	
9. DUCT INSULATION: SEE SPECIFICATION SECTION 15250.	
10. PIPE INSULATION: SEE SPECIFICATION SECTION 15250.	
GENERAL PLUMBING NOTES:	
1. PLUMBING FIXTURES SHALL BE DESIGNED OR EQUIPPED TO MEET FOLLOWING WATER USE EFFICIENCY STANDARDS: a. WATER CLOSETS (TANK STYLE OR FLUSH VALVE) 1.6 GPF. b. URINALS 1.0 GPF. c. SHOWER HEADS & BATHROOM FAUCETS 2.5 GPM. d. LAVATORY & KITCHEN FAUCETS 2.5 GPM. SINK AND LAVATORY DRAINS SHALL BE CHROME PLATED 17 GA. BRASS TUBING BY ENGINEERED BRASS, DEARBORN OR BRASSCRAFT. PROVIDE INSULATED P-TRAP & SUPPLY COVERS @ ALL EXPOSED P-TRAPS & SUPPLIES PER A.D.A. STANDARDS.	
2. PLUMBING FIXTURE MOUNTING SHALL COMPLY WITH CONTRACT DOCUMENTS AND WASHINGTON STATE BUILDING CODE CHAPTER 51-30 (ACCESSIBILITY) EFFECTIVE JUNE 30, 1995.	
3. INSTALL WATER HAMMER ARRESTORS ON HOT AND COLD WATER PIPING OF EACH FIXTURE GROUP. UNITS SHALL BE EQUAL TO MAKE "SHOCKSTOP". SELECT UNIT SIZE AND LOCATION PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORD WITH PD STANDARD WH-201. PROVIDE ACCESS PANELS AT ARRESTORS ABOVE GNB CEILINGS.	
4. COLD WATER AND HOT WATER PIPING SHALL BE ROUTED FULL SIZE AS SHOWN ON PLANS WITH APPROPRIATE SIZE REDUCTION AT POINT OF CONNECTION TO FIXTURE.	
5. INSTALL WATER PIPING ON WARM SIDE OF BUILDING INSULATION.	
6. WHEN CONNECTING TO EXISTING BURIED WASTE PIPING, VERIFY PROPER FLOW CONDITIONS BEFORE COVERING. BURIED WASTE AND VENT PIPING SHALL BE MIN. 2" DIA. & SLOPED 1/4"/FT.	
7. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS EXCEPT IN SHOWER STALLS. CONTRACTOR SHALL INSTALL LOCKABLE ACCESS PANELS AT PRIMERS CONCEALED IN WALLS.	
8. COORDINATE VENT THROUGH ROOF (VTR) LOCATIONS WITH HVAC UNITS. MAINTAIN MIN. 10'-0" CLEARANCE, OFFSET VTR AS NECESSARY.	
9. INSTALL WATER HEATERS IN ACCORD WITH MANUFACTURERS RECOMMENDATIONS AND SET OUTPUT TEMPERATURE TO 115 DEG. F. UNLESS OTHERWISE NOTED. FOR ELEC. WATER HEATERS SET ON CONCRETE FLOORS, PROVIDE R-10 INSUL. PAD.	
10. RISER DIAGRAMS & PLANS DO NOT SHOW SOME PIPING OFFSETS REQUIRED FOR STRUCTURAL CLEARANCES. EXACT ROUTING MAY VARY FROM THAT INDICATED.	
11. SITE WATER PRESSURE IS 84 PSIG PER ANACORTES WATER DEPT.	


PLUMBING FIXTURE SCHEDULE			
MARK	ITEM	MFR. MODEL	DESCRIPTION
	WATER CLOSET	AMERICAN STANDARD 2234 015	FLOOR-MOUNT, SIPHON JET, ELONG. RIM, VIT. CHINA, 1-1/2" TOP SPUD, WHITE, 15" RIM HEIGHT, 1.6 GPF, 12" ROUGH-IN.
	SEAT	OLSONITE: NO. 100C	ELONG. WHITE PLASTIC, OPEN FRONT, WITHOUT COVER.
	FLUSH VALVE	SLOAN: ROYAL #111	
	WATER CLOSET	AMERICAN STANDARD 3043 102	FLOOR MOUNT SIPHON JET, ELONG. RIM, VIT. CHINA, 1-1/2" TOP SPUD, WHITE, 15" RIM HEIGHT, 1.6 GPF, 12" ROUGH-IN.
	SEAT	OLSONITE: NO. 100C	ELONG. WHITE PLASTIC, OPEN FRONT, WITHOUT COVER.
	FLUSH VALVE	SLOAN: ROYAL #111	
	WATER CLOSET	AMERICAN STANDARD 6561 017	WALL MOUNT, SIPHON JET, VIT. CHINA, 3/4" TOP SPUD, 1 GAL. FLUSH WHITE.
	VALVE	SLOAN: 188	
	LAVATORY	AMERICAN STANDARD 0476 028	17" X 20" OVAL, COUNTER TOP, SELF RIM, VIT. CHINA, 4" CENTERS, WHITE.
	FAUCET	SYMONS: S-20-G-IPS	4-1/2" SPOUT WITH AERATOR, SGL. LEVER HANDLE, POP UP DRAIN CHROME PLATE. USE OFFSET DRAIN #13885 WITH INSUL. P-TRAP COVER.
	SERVICE SINK	FIAT: Model 24	24" x 24" REAR OVER, VIT. COMPOSITION STONE, 2" DIA. FLAT STRAINER, WHITE
	FAUCET	CHICAGO: 305-VB-R	WALL MOUNT W/VACUUM BREAKER, INTEGRAL STOP ARMS, BUCKET HOOK, 3/4" HOSE THD., ROUGH CHROME PLATE, #853 WALL HOOK.
	P-TRAP	KOHLER: 6673	3" DIA. ENAMELED INSIDE, EXPOSED CLEANOUT PLUG.
	FAUCET	ELKAY: PSR-3322	1/8" GAUGE STAINLESS-STEEL, DBL. COMPARTMENT, SELF-RIM, 2 HOLES ON 4" CENTERS.
	FAUCET	SYMONS: S-23-3-IPS	SWING SPOUT WITH AERATOR, SGL. LEVER HANDLE, 8" CTRS. CHROME PLATE, HAND SPRAY.
	DRAIN	ELKAY: 335	CRUMB CUP STRAINER, 1 1/2" DIA., STAINLESS STEEL.
	DISPOSER	I.S.E.: CLASSIC	1 HP, 1725 RPM 115 VOLT, 3" CORD W. GROUND PLUG, WALL SWITCHED OUTLET PROVIDED UNDER DEV. 16
	FAUCET	ELKAY: LRAD-2521-55-4	1/8" DIA. STAINLESS STEEL, SELF-RIM, SOUND-DEADENED, 4 HOLES ON 4" CENTERS, ADA COMPLIANT.
	FAUCET	SYMONS: S-23-3-IPS	SWING SPOUT WITH AERATOR, SGL. LEVER HANDLE, 8" CTRS. CHROME PLATE, HAND SPRAY.
	DRAIN	ELKAY: 335	CRUMB CUP STRAINER, 1 1/2" DIA., STAINLESS STEEL.
	SHOWER	FIAT: S115	39" DEEP X 39" WIDE X 82" HIGH TERRAZZO FLOOR W/6" SIDES & 1/2" FRONT LIP, SANDWICH PANEL WALLS W/ WELDED TUBULAR FRAME, S.S. CURTAIN ROD, S.S. ENTRY CAP & S.S. DRAIN, (2) STANDARD S.S. GRAB BARS, FOLDING S.S. & TEAK SEAT 10 OZ. CURTAIN W. PINS.
	SHOWER VALVE	SYMONS: S96-300-B24 X-R-V-L-B	SINGLE LEVER, PRESSURE BALANCING MIXING VALVE, W/ INTEGRAL SERVICE STOPS & VOL. CONTROL, METAL LEVER HANDLE, CHROME BRASS ESCUTCHEON ON VALVE, HANDHELD SHOWER HEAD W/ 5' HOSE, WALL BAR, VAC BKR., CHROME PLATE.
	WATER COOLER	HAWS: HWCFB	TWO, SINGLE-LEVEL WALL MOUNT UNITS, W/ ONE MOUNTED @ ADA HEIGHT STAINLESS STEEL, SELF-CLOSING PUSH BUTTON CONTROL, 8 GPH, 1/8" N.P., 430 WATTS, 115 VOLTS
	WATER COOLER	HAWS: 3380	PEDESTAL MOUNT, BARRIER FREE, STAINLESS STEEL BOWL, PUSH BUTTON BUBBLE VALVE.
	REMOTE CHILLER FOR P-6 & P-6A EQUAL TO HAWS #HCR-B, 1/5 HP, 400 WATTS		
	FLOOR DRAIN	ZURN: Z-415-S	2" C.I. BODY, 5" SQUARE ADJ. NICKLE BRONZE STRAINER, TRAP PRIMER TAPPING. PROVIDE TRAP PRIMER FOR ALL INSTALLATIONS EXCEPT SHOWERS.
	FLOOR DRAIN	ZURN: Z-415-S-9	4" C.I. BODY, 8" X 8" SQUARE ADJ. NICKLE BRONZE STRAINER, TRAP PRIMER TAPPING, 9" OVAL N.B. FUNNEL, DRILL OUT STRAINER AREA BELOW FUNNEL.
	SERVICE COCK	BRASSCRAFT: FR3703 LR	1/2" SERVICES STOP FOR VENDING MACHINE WATER, DUAL OUTLET, ROUND HANDLE, CHROME PLATE. PROVIDE ESCUTCHEON.
	WATER HEATER	A.O. SMITH: PEC-66	66 GALLON STORAGE, (2) 4500 WATT ELEMENTS (NON-SIMULTANEOUS) 240 VOLT/SGL. PHASE.
	WATER HEATER	A.O. SMITH: ELSF-30	10-GALLON STORAGE, 4500 WATT ELEMENT, 240, 22" DIA. X 31" HIGH.
	SAME AS WH-1.		
	EXPANSION TANK	AMTROL: ST-12	WELDED CONST. W. INTERNAL DIAPHRAGM.



414 OLIVE WAY
SUITE 310
SEATTLE WA 98101
(206) 468-3344
FAX(206) 468-7000



SUN HEALTHCARE SYSTEMS, INC.
CAMPUS: PHASE ONE
ANACORTES, WASHINGTON




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R.V.
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SIDER & BYERS
ARCHITECTS, INC.
MECHANICAL DESIGNERS
180 N. HENRIETTA, SUITE 204
SEATTLE, WASHINGTON 98109
(206) 288-0996 FAX (206) 288-1045

SCHEDULES

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