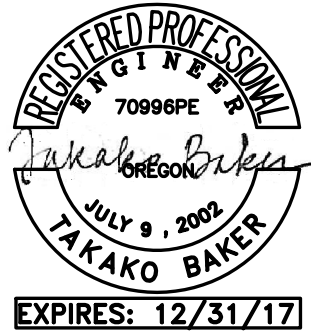


YAKIMA VALLEY
CLINIC TENANT
IMPROVEMENT

9035 SE FOSTER RD
PORTLAND, OR 97266

JOB NO. 17001



PERMIT SET

05.30.2017

issue: date:

revision: date:

title:

MECHANICAL
LEGENDS&
SCHEDULES

sheet:

MECHANICAL LEGEND

	SUPPLY AIR DIFFUSER	AFF	ABOVE FINISH FLOOR
	RETURN AIR GRILLE	AHU	AIR HANDLING UNIT
	EXHAUST AIR GRILLE	B.D.	BOTTOM OF DUCT
	PERFORATED RETURN AIR PANEL	BHP	BRAKE HORSEPOWER
	DIRECTIONAL AIR FLOW	BTU	BRITISH THERMAL UNITS
	MANUAL VOLUME DAMPER	CFM	CUBIC FEET PER MINUTE
	SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	CONN.	CONNECTION
	RETURN AIR DUCT UP & DOWN	CONT.	CONTINUATION
	EXHAUST AIR DUCT UP & DOWN	CW	DOMESTIC COLD WATER
	SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	DB	DRY BULB
	RETURN AIR DUCT UP & DOWN	DIA.	DIAMETER
	EXHAUST AIR DUCT UP & DOWN	DIST.	DISTRIBUTION
	VAV TERMINAL UNIT	EA	EXHAUST AIR
	WT TERMINAL UNIT	EDB	ENTERING DRY BULB TEMPERATURE
	EXISTING	EWB	ENTERING WET BULB TEMPERATURE
	CONNECT TO EXISTING	EWT	ENTERING WATER TEMPERATURE
	THERMOSTAT OR TEMP. SENSOR	FF	FINISH FLOOR
	NOTE	FIXT.	FIXTURE
	EQUIPMENT DESIGNATOR	FPM	FEET PER MINUTE
	BALL VALVE	FPS	FEET PER SECOND
	GATE VALVE	FT.	FEET / FOOT
	CHECK VALVE	GA.	GAUGE
	BALANCING VALVE	GPM	GALLONS PER MINUTE
	THERMOMETER	H	HEIGHT
	DIRECTION OF FLOW	HP	HORSEPOWER
	PUMP	I.D.	INSIDE DIAMETER
	STRAINER	IN.	INCHES
	PRESSURE GAUGE	L	LENGTH
	PETE'S PLUG	LBS.	POUNDS
	DOUBLE CHECK ASSEMBLY	LDB	LEAVING DRY BULB
	PRESSURE REDUCING VALVE	LWB	LEAVING WET BULB
	UNION	LWT	LEAVING WATER TEMPERATURE
	2-WAY CONTROL VALVE	MAX.	MAXIMUM
	3-WAY CONTROL VALVE	MBH	THOUSANDS OF BTUs PER HOUR
	CAP	MIN.	MINIMUM
	SMOKE DETECTOR	NC	NOISE CRITERIA
	MOTORIZED DAMPER	N.C.	NORMALLY CLOSED
		N.I.M.	NOT IN MECHANICAL
		NO.	NUMBER
		N.O.	NORMALLY OPEN
		O.A.	OUTSIDE AIR
		P	PERSON
		PSI	POUNDS PER SQUARE INCH
		P/T	PRESSURE / TEMPERATURE
		R.A.	RETURN AIR
		RECT.	RECTANGULAR
		REQ'D	REQUIRED
		S.A.	SUPPLY AIR
		S.P.	STATIC PRESSURE
		SQ.	SQUARE
		TEMP.	TEMPERATURE
		TYP.	TYPICAL
		VAV	VARIABLE AIR VOLUME
		W	WIDTH
		WB	WET BULB
		WPD	WATER PRESSURE DROP
		ø	DIAMETER
		(E)	EXISTING
		(D)	DEMOLISH
		NEW WORK	NEW WORK
		HWS	(HWS) HEATING WATER SUPPLY
		HWR	(HWR) HEATING WATER RETURN
		FIRE DAMPER	FIRE DAMPER
		FIRE / SMOKE DAMPER	FIRE / SMOKE DAMPER
		SMOKE DAMPER	SMOKE DAMPER
		SEISMIC BRACING	SEISMIC BRACING
		LATERAL BRACING	LATERAL BRACING
		LONGITUDINAL BRACING	LONGITUDINAL BRACING
		LONGITUDINAL & LATERAL BRACING	LONGITUDINAL & LATERAL BRACING

WALL/CEILING HUNG AIR CONDITIONER	
SYSTEM	COMPUTER
INDOOR UNIT MARK NUMBER	IAC 1
TYPE (INDOOR UNIT)	WALL HUNG
OUTDOOR UNIT MARK NUMBER	OAC 1
TYPE (OUTDOOR UNIT)	WALL HUNG PLATFORM
COOLING CAPACITY	12,000 BTU/HR
CFM (HIGH/MED/LOW)	290/260/212
EFFICIENCY (SEER)	17
MAX PIPING LENGTH	65 FT
MAX PIPING ELEV. CHANGE	23 FT.
INDOOR UNIT DESIGN WT.	20 LBS.
OUTDOOR UNIT DESIGN WT.	75 LBS.
INDOOR UNIT MOUNTING HT.	54" *
PUMPED CONDENSATE	YES - **
BOD: DAIKIN	

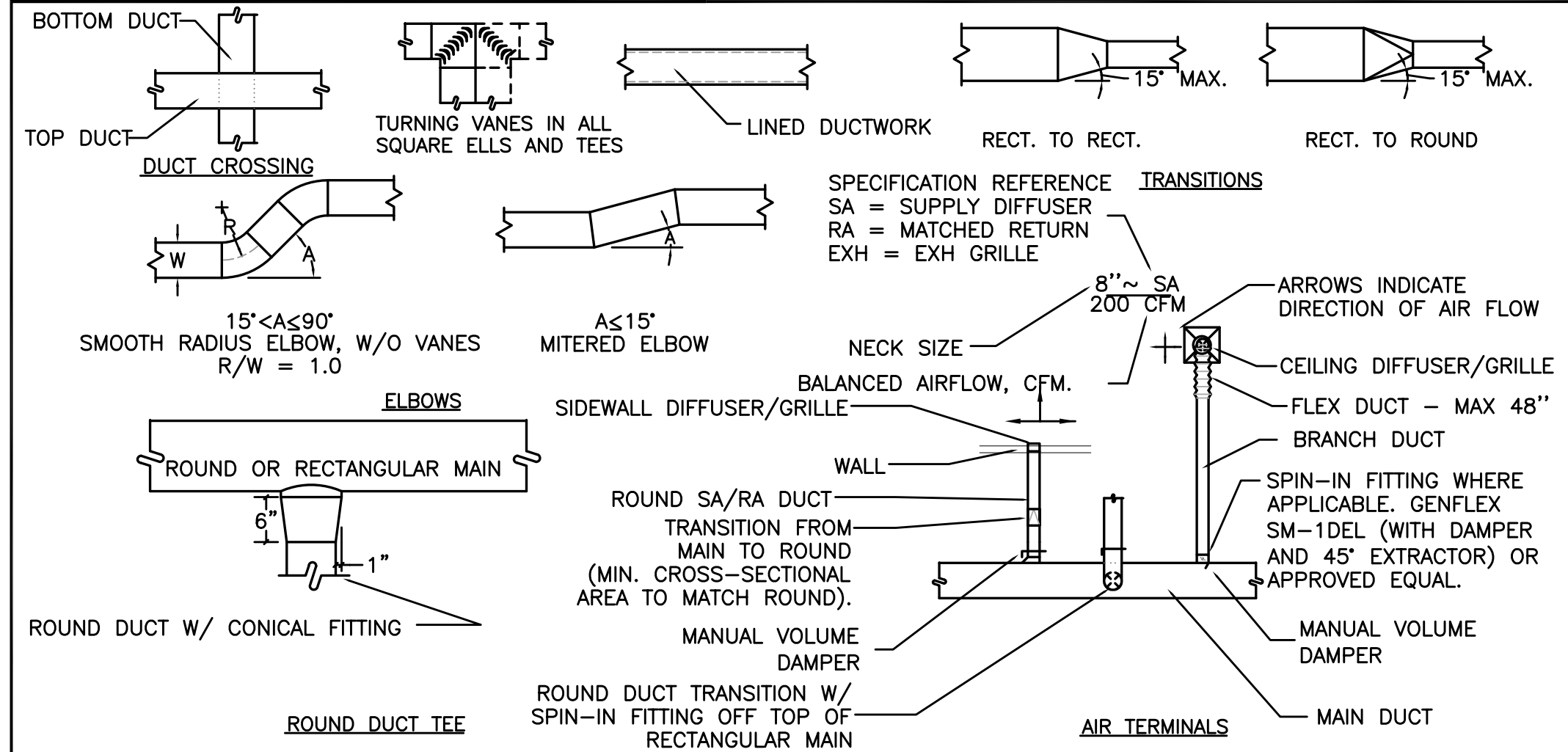
* - COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH COMPUTER ROOM EQUIPMENT.
** - ROUTE CONDENSATE TO FLOOR DRAIN

EXHAUST FAN													
Mark	SERVICE	Model (Greenheck)	Volume (CFM)	External SP (in. wg)	Fan Speed (RPM)	Tip Speed (ft/min)	Operating Power (hp)	Inlet Sones	Motor Size	Voltage	Phase	Power	Total Weight (lb)
EF-A1	EXAM 12	SP-B200	150	0.5	945	1,965	0.06	4.3	172 Watts	115	1	60 Cycle	11
EF-A2	BREAKROOM	SP-B110	100	0.375	950	1,975	0.04	2.7	80 Watts	115	1	60 Cycle	11
EF-A3	LAB	SP-A390	250	0.5	1150	2,032	0.04	4.2	135 Watts	115	1	60 Cycle	25
EF-A4	PROCEDURE	SP-B200	175	0.5	1051	2,185	0.08	5.3	172 Watts	115	1	60 Cycle	11

ALL EXHAUST FANS TO OPERATE ON BUILDING OCCUPANCY SCHEDULE.

VENTILATION AIR SCHEDULE															
ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD #/1000 SQ. FT.)	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT (CFM/P)	OUTSIDE AIR REQUIREMENT (CFM/SQ FT.)	OUTSIDE AIR REQUIRED (CFM)		ZONE OSA (CFM)	SUPPLY AIR (CFM)	PRIMARY OSA FRACTION	RETURN AIR (CFM)	EX-HAUST AIR (CFM)	Zone Ventilation Efficiency	ACH	AIR SYSTEMS
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp		Evz			
Care 06	675	5	4	5	0.06	61	1.0	61	700	0.09	700	0	0.80	7.3	FC-A1
Hallway	260	0	0	0	0.06	16	1.0	16	50	0.31	50	0	0.80	1.4	FC-A1
Lab 16	215	20	5	10	0.18	89	1.0	89	200	0.44	0	250	0.80	6.6	FC-A1
Sterile 18	80	20	2	10	0.18	34	1.0	34	180	0.19	0	190	0.80	15.9	FC-A1
TOTAL	1230		11			199.2		199.2	1130		930	440			
Manager	88	5	1	5	0.06	10	1.0	10	100	0.10	100	0	0.80	8.0	FC-A2
Reception	240	30	8	5	0.06	54	1.0	54	300	0.18	220	0	0.80	8.8	FC-A2
Triage/Weigh	85	5	1	10	0.06	15	1.0	15	100	0.15	100	0	0.80	7.8	FC-A2
TOTAL	413		10			79.78		79.78	500		420	0			
Exam 8	120	10	2	15	0	30	1.0	30	120	0.25	120	0	0.80	6.7	FC-A3
Exam 9	120	10	2	15	0	30	1.0	30	120	0.25	120	0	0.80	6.7	FC-A3
Exam 10	120	10	2	15	0	30	1.0	30	120	0.25	120	0	0.80	6.7	FC-A3
Exam 11	120	10	2	15	0	30	1.0	30	120	0.25	120	0	0.80	6.7	FC-A3
Exam 12	120	10	2	15	0	30	1.0	30	120	0.25	0	150	0.80	6.7	FC-A3
Exam 13	120	10	2	15	0	30	1.0	30	120	0.25	120	0	0.80	6.7	FC-A3
Procedure 17	150	10	2	15	0	30	1.0	30	150	0.20	0	175	0.80	6.7	FC-A3
Supplies 14	75	0	0	0	0	0	1.0	0	50	0.00	50	0	0.80	4.7	FC-A3
TOTAL	945		14			210		210	920		710	325			
Waiting Room	520	30	16	5	0.18	174	1.0	174	1120	0.16	1120	0	0.80	12.9	FC-A4
TOTAL	520		38			174		174	1120		945	0			
Break Room 21	200	50	10	5	0.06	62	1.0	62	460	0.13	460	0	0.80	16.2	CC-A1
TOTAL	520		80			62		62	460		460	0			
Medical Team 20	195	50	10	5	0.06	62	1.0	62	460	0.13	460	0	0.80	16.7	CC-A2
TOTAL	195		10			62		62	495		460	0			
Computer 03	165	0	0	0	0.12	20	1.0	20	290	0.07	290	0	0.80	12.4	IAC-1
TOTAL	195		10			20		20	290		290	0			
Mech 25	100	0	0	0	0.12	12	1.0	12	100	0.12	0	0	0.80	7.1	EX DOAS-1
Janitors 24	50	0	0	0	0.12	6	1.0	6	50	0.12	0	75	0.80	7.1	EX DOAS-1
RR 22	56	0	0	0	0	0	1.0	0	50	0.00	0	75	0.80	6.3	EX DOAS-1
RR 04	62	0	0	0	0	0	1.0	0	50	0.00	0	75	0.80	5.7	EX DOAS-1
RR 15	62	0	0	0	0	0	1.0	0	50	0.00	0	75	0.80	5.7	EX DOAS-1

AIR DISTRIBUTION DETAILS



BRANCH SELECTOR BOX

MARK NUMBER	BS 1.2
TYPE	MULTI PORT
VRV SYSTEM	HP-1
MAX. CONNECT LOAD	290,000
HEIGHT	11.75"
WIDTH	19"
LENGTH	22"
WEIGHT	75
POWER VOLTS/HZ/PHASE	208-230/60/1
MCA	0.80
MOP	15
CONDENSATE	NONE
DAIKIN MODEL	BS8Q54TVJ
# OF PORTS	8
HEAT RECOVERY	YES