																					, 0	011											8/13/08 S018.DVG
									AI	R	TER	M	NΑ	Ĺ	В(JX	А	SS	ĿΜI	BLY	′ S	CH	LD	ULI	_								
		ASSE	MRLY							HOT	WATER CO	nii								SOUND C	·ONTROI	SECTION					SYSTEM	M SIDE	ROOM	SIDE	ACCES	ORIFS	
		7,552	IVIDEI		MG				AIR S		WAILK OC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		WAT	FR			N/		TERIA (AT					ы	_	313121	W SIDE	11001	SIDE	NOOLS	IOINILO	
UNIT	TYPE	DESIGN	PD	_	<u>z</u>	MAX.		LAT									INLET			R LEVEL			,		GRADE	:MBL)					DOOR COIL	: DOOR COIL	ACCEPTABLE MANUFACTURERS
NUMBER	1112	RANGE CFM	œ	DOW	VALVE . APD	HEATING	EAT	•F	MAX FV	MAX AIR PD	MIN NO.OF ROWS	X MIN F	TN K. GPN	EWT	LWT	MAX	STATIC PRESS (IN.)	125hz		500hz				. APD WG	3 ITAL	ASSE + (IN	(IN)	(N)	(ECT	(E	SS I	SS I R CE	SUBJECT TO CONFORMANCE
		MINMAX.	MAX. AI IN. WG	TURNDOWN MIN. CFM	AIR V MAX.	CFM (*)	1	(MIN) (**)	FPM	IN. WG	ROWS	IN.		1 4	计内	г. Н ₂ р	(IN.)			RGE SPL				MAX.	LINING HOSPITAL	MAX. ASSEMBLY DEPTH (IN)	CONNECT SIZE (IN)	DUCT SIZE	CONNECT SIZE (IN)	DUCT SIZE	ACCESS BEFORE	ACCE AFTE	WITH SPECIFICATIONS
VCV-5	VARIABLE VOLUME	120-250	0.30	60	0.03	125	55	95	360	0.10	2 6	0.009	5 0.5	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	12	5ø	6ø	12x10	12x6			ENVIRO-TEC, PRICE, NAILOR
VCV-6	VARIABLE VOLUME	150-400	0.30	70	0.03	200	55	95	560	0.10	2 6	0.009	5 0.6	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	12	6ø	8ø	12x10	12x8	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VCV-8	VARIABLE VOLUME	300-650	0.30	140	0.03	325	55	95	560	0.10	2 6	0.009	5 1.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	15	8ø	12ø	14x15	14x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VCV-10	VARIABLE VOLUME	500-925	0.30	225	0.03	463	55	95	560	0.10	2 6	0.009	5 1.4	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	15	10ø	14ø	16x15	16x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VCV-12	VARIABLE VOLUME	800-1400	0.30	310	0.03	700	55	95	560	0.10	2 6	0.009	5 2.1	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	12ø	16ø	20x18	20x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VCV-14	VARIABLE VOLUME	1000-1650	0.30	440	0.03	825	55	95	560	0.10	2 6	0.009	5 2.5	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	14ø	16ø	24x18	24x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VCV-16	VARIABLE VOLUME	1200-2300	0.30	575	0.03	1150	55	95	560	0.10	2 6	0.009	5 4.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	16ø	18x16	34x18	30x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VCV-24	VARIABLE VOLUME	2000-3200	0.30	1000	0.03	1600	55	95	560	0.10	2 6	0.009	5 6.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-5	CONSTANT VOLUME	65-250	0.30	60	0.03	250	55	88	360	0.10	2 6	0.009	5 0.5	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	12	5ø	6ø	12x10	12x6	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-6	CONSTANT VOLUME	75-400	0.30	70	0.03	400	55	88	560	0.10	2 6	0.009	5 1.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	12	6ø	8ø	12x10	12x8	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-8	CONSTANT VOLUME	150-650	0.30	140	0.03	650	55	88	560	0.10	2 6	0.009	5 1.4	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	15	8ø	12ø	14x15	14x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-10	CONSTANT VOLUME	250-925	0.30	225	0.03	925	55	88	560	0.10	2 6	0.009	5 2.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	15	10ø	14ø	16x15	16x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-12	CONSTANT VOLUME	350-1400	0.30	310	0.03	1400	55	88	560	0.10	2 6	0.009	5 3.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	12ø	16ø	20x18	20x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-14	CONSTANT VOLUME	475-1650	0.30	440	0.03	1650	55	88	560	0.10	2 6	0.009	5 4.0	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	14ø	16ø	24x18	24x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-16	CONSTANT VOLUME	600-2300	0.30	575	0.03	2300	55	88	560	0.10	2 6	0.009	5 4.5	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	16ø	18x16	34x18	30x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
CV-24	CONSTANT VOLUME	1000-3200	0.30	1000	0.03	3200	55	88	560	0.10	2 6	0.009	5 6.2	180	140	10	1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-5	VARIABLE VOLUME EXHAUST	120-250	0.20	60	0.03								-				1.5	67	63	58	56	54	53	0.17	YES	12	5ø	6ø	12x10	12x6	YES	YES	ENVIRO-TEC, PRICE, NAILOR
VVE-6	VARIABLE VOLUME EXHAUST	150-400	0.20	70	0.03								-				1.5	67	63	58	56	54	53	0.17	YES	12	6ø	8ø	12x10	12x8	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-8	VARIABLE VOLUME EXHAUST	300-650	0.20	140	0.03							-	-				1.5	67	63	58	56	54	53	0.17	YES	15	8ø	12ø	14x15	14x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-10	VARIABLE VOLUME EXHAUST	500-925	0.20	225	0.03								-				1.5	67	63	58	56	54	53	0.17	YES	15	10ø	14ø	16x15	16x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-12	VARIABLE VOLUME EXHAUST	800-1400	0.20	310	0.03								-				1.5	67	63	58	56	54	53	0.17	YES	18	12ø	16ø	20x18	20x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-14	VARIABLE VOLUME EXHAUST	1000-1650	0.20	440	0.03								-				1.5	67	63	58	56	54	53	0.17	YES	18	14ø	16ø	24x18	24x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-16	VARIABLE VOLUME EXHAUST	1200-2300	0.20	575	0.03												1.5	67	63	58	56	54	53	0.17	YES	18	16ø	18x16	34x18	30x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR
WE-24	VARIABLE VOLUME EXHAUST	2000-3200	0.20	1000	0.03												1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	ENVIRO-TEC, PRICE, NAILOR

(*) MAXIMUM PRESSURE DROP AT MAXIMUM DESIGN CFM.

(**) MINIMUM TEMPERATURE AT MAXIMUM HEATING CFM

1. THE DISCHARGE SOUND LEVEL SHALL BE LESS THAN SCHEDULED IN EACH FREQUENCY WHEN THE ASSEMBLY IS TESTED AND CERTIFIED NOISE LABORATORY. THE TEST SHALL BE WITH 1.5" WC AT THE INLET OF THE BOX AND AT THE MAXIMUM SCHEDULED

AIR FLOW. IN ADDITION THE ASSEMBLY PRESSURE DROP SHALL BE LESS THAN SCHEDULED. THE ORDER OF COMPONENTS SHALL BE VALVE, COIL, SILENCER OR VALVE, SILENCER, COIL, BUT SHALL BE TESTED AS SUPPLIED. 2. THIS TEST SHALL OCCUR IF ALL COMPONENTS ARE BY THE SAME MANUFACTURER OR IF THE COMPONENTS ARE BY DIFFERENT MANUFACTURER.

3. CERTIFIED TEST DATA SHALL BE PROVIDED FOR EACH BOX ASSEMBLY AND FOR EACH BOX TYPE INCLUDING EXHAUST RETURN ASSEMBLIES.

4. EACH HEATING COIL SHALL BE PROVIDED WITH AN ACCESS DOOR ON EACH SIDE, UP STREAM AND DOWN STREAM. 5. SUFFIX "SS" OR "S/S" ON ROOM TERMINAL SCHEDULES INDICATES ALL STAINLESS STEEL CONSTRUCTION, UN-LINED.

		V	ARIABL	E F	RE(QUE	EN(CY DRIVE SCH	EDULE	1/8/04 S260.DWG
NUMBER	DRIVEN EQUIPMENT	MHP	DRIVE TYPE	NUMBER OF PULSES INPUT	5% LINE REACTOR	BYPASS	LUGS OVERSIZED	ADDITIONAL DEVICES TO REDUCE HARMONICS (CURRENT AND VOLTAGE)	SIMILAR TO	REMARKS
VFD-EF-38	EF-38	1.5	PWM	6	YES	NO	YES	AS REQUIRED TO MEET THE SPECIFIED	DANFOSS	

NOTES:

							FAI	1	SCH	HED)UL	E							05/	/11/09 SO06.DWG
UNIT NUMBER	LOCATION	SERVICE	CFM	S.P. (IN. H ₂ 0)	FAN RPM	WHEEL DIAMETER (IN.)	CLASS	DRIVE DIRECT/BELT	BHP	MOTOR MIN. MHP	DATA @	60 HZ VOLTS	PHASE	INLET VANES	FAN TYPE	SIMILAR TO	EQUIPMENT INTERLOCK	NOTES SEE BELOW	FIRE ALARM INTEGRATION	EMER POWER
EXIST EF-38	LEVEL 14	ROOM 450	550	1.5	1380	-	-	В	-	1/3	XXX	120	1	_	CENT	_	_	1	-	_
EF-38	ROOF	ROOM 450	1300	3.5	2,608	12	II	В	1.1	1.5	1,750	480	3	NO	CENT	COOK CPA-A	VFD-38	1,2,3	NO	YES

NOTES:

1. EXIST EF-38 IS FOR REFERENCE ONLY.

2. MOTOR TO BE VFD READY

	LAB	ORAT	ORY I	HOOD	EXH	HAUST	VALVE SCH	HEDULE	
UNIT TYPE	LOCATION	CF MAX	M MIN	SIZE	MAX N.C.	△ P IN.	SELECTION BASED ON	REMARKS	NOTES SEE BELOW
HV-1	SEE PLANS	200	45	6"ø	40	0.3	SIEMENS VENTURI 106	1	1
HV-2	SEE PLANS	700	40	10"ø	40	0.3	SIEMENS VENTURI 110	1	1

NOTES:
1. CONSTANT VOLUME HOOD VALVES WITH HERESITE COATING.

	SOUND ATTENUATOR SCHEDULE																				
							MIN. I	YNAN	AIC II	NSERTI(ON LO	SS		M	AX. SI	ELF-1	NOISE				
UNIT NUMBER	LOCATION	SYSTEM	AIRFLOW (CFM)	MAX. FACE VELOCITY (FPM)	LENGTH (FEET)	MAX. PRESS. DROP (IN. W.G.)	63 HZ. 125 HZ.	250 HZ.	500 HZ.		ZK HZ.				.20 HZ.			4K HZ.	8K HZ.	BASIS OF DESIGN (VIBRO—ACOUSTICS)	NOTES (SEE BELOW)
SA-1	SOUND BOOTH	SUPPLY	100	200	7	0.04	9 18	34	51	54 5	5 54	37	29	9	9 9	9	9	9	9	RD-ULV-F9	1,3
SA-2	SOUND BOOTH	EXHAUST	100	200	7	0.05	10 22	38	53	53 5	5 55	33	34	17 1	8 2	1 24	16	9	9	RD-ULV-F9	1,3

- 1. SOUND ATTENUATOR SHALL BE INSTALLED DOWNSTREAM OF SUPPLY AIR VALVE AND SUPPLY AIR TERMINAL BOX.
 2. SOUND ATTENUATOR SHALL BE INSTALLED UPSTREAM OF EXHAUST AIR VALVE AND RETURN AIR TERMINAL BOX.
- 3. SOUND ATTENUATOR SHALL BE OF STAINLESS STEEL CONSTRUCTION.

 4. HVAC CONTRACTOR TO PROVIDE DUCTWORK TRANSITIONS AS REQUIRED FOR SOUND ATTENUATORS.

 5. PROVIDE ELBOW SOUND ATTENUATOR AT FUME HOOD LOCATIONS WITH SIMILAR PERFORMANCE WHEN SA CANNOT BE ACCOMMODATED.

		AIR DIS	TRIBU	TION	DEVICE S	SCHEDULE	,
UNIT NUMBER	SERVICE	AIR PATTERN	NECK SIZE	MATERIAL	ACCESSORIES	SIMILIAR TO	REMARKS
A	CEILING SUPPLY	ONE WAY BLOW	AS NOTED	STEEL	-	TUTTLE & BAILEY AGITAIR RC	_
В	CEILING SUPPLY	TWO WAY BLOW (90°)	AS NOTED	STEEL	-	TUTTLE & BAILEY AGITAIR RC	-
С	CEILING SUPPLY	TWO WAY BLOW (180°)	AS NOTED	STEEL	-	TUTTLE & BAILEY AGITAIR RC	-
D	CEILING SUPPLY	THREE WAY BLOW	AS NOTED	STEEL	-	TUTTLE & BAILEY AGITAIR RC	-
E	CEILING SUPPLY	FOUR WAY BLOW	AS NOTED	STEEL	_	TUTTLE & BAILEY AGITAIR RC	-
F	EXHAUST/RETURN	-	AS NOTED	STEEL	_	TUTTLE & BAILEY T77D	_
G	CEILING SUPPLY	2 WAY + RADIAL	12"ø	STEEL	_	TUTTLE & BAILEY VECTOR	_
Н	CEILING SUPPLY	1 WAY + RADIAL	12"ø	STEEL	_	TUTTLE & BAILEY VECTOR	_

PROJECT NO:

jg Associates ARCHITECTS PLANNERS INTERIOR DESIGN

8 SUMMIT ROAD, LEXINGTON MA. 02421 TEL-781-861-7812 FAX: 781-353-6006

CONSULTANTS

PROJECT:

OTOLARYNGOLOGY LAB FOURTH FLOOR-MEEI 243 CHARLES ST, BOSTON-MA

OWNER:



HVAC SCHEDULES

(L		0)
NO	DATE	DESCRIPTION
RE	VISIONS	
DR	AWN : MMR	

DATE: July 16, 2012

JOB NO : SCALE : NTS

DRAWING NO. SHEET __ OF TOTAL __ SHEETS