

The Village
Shoppes of
North Reading
303 Main Street
North Reading, MA

Permit

No.	ISSUE	DATE
1	PERMIT SET	5/30/08

PROJECT #:
28112

DRAWING TITLE:
HVAC SCHEDULES

H2.O

CONDENSING GAS FURNACE SCHEDULE

TAG	SERVICE & LOCATION	SUPPLY FAN DATA				HEATING		ELECTRICAL			MANUFACTURER/MODEL	SIZE	WEIGHT LB	ACCESSORIES	
		TOTAL CFM	O.A. CFM	S.P.	HP	RPM	AIR SIDE EAT/LAT	GAS MBH INPUT/OUTPUT	V/PH/HZ	WUA					MFA
GF-1	1ST FLOOR SUITE #5	1925	-	0.50	.75	1075	72/112	80/74	115/1/60	14.1	20	CARRIER / 58MCB	80-20	206	①②
GF-2	1ST FLOOR SUITE #4	1525	-	0.50	.33	1075	72/120	80/74	115/1/60	10.0	15	CARRIER / 58MCB	080-16	188	①②
GF-3	1ST FLOOR SUITE #3	1525	-	0.50	.33	1075	72/110	80/74	115/1/60	10.0	15	CARRIER / 58MCB	080-16	188	①②
GF-4	1ST FLOOR SUITE #2	1525	-	0.50	.33	1075	72/118	80/74	115/1/60	10.0	15	CARRIER / 58MCB	080-16	188	①②

NOTES:

1. ACCESSORIES
 ① EXTERNAL FILTER RACK WITH FILTER.
 ② THERMOSTAT, 7-DAY PROGRAMMABLE.
2. GAS CONNECTION SIZE IS 3/4" FOR ALL UNITS. MIN. INLET PRESSURE IS 4.5 IN. W.G.
3. MAX. INLET PRESSURE IS 13.6 IN. W.G.

DIRECT EXPANSION COOLING COIL SCHEDULE

TAG	UNIT SERVICE	LOCATION	CFM	P.D.	FACE-VEL.	EAT		LAT	WB	Ref SST	TOTAL-MBTU	SENS-MBTU	SIZE	WEIGHT LB	MANUFACTURER/MODEL	REMARKS
						DB	WB									
CC-1	HF-1	1ST FLOOR	1925	.29	-	78	62	58	-	45	46.0	46.0	A060	72	CARRIER / CE3A	36x26
CC-2	HF-2	1ST FLOOR	1525	.31	-	78	62	58	-	45	39.0	39.0	A048	65	CARRIER / CE3A	28x26
CC-3	HF-3	1ST FLOOR	1525	.31	-	78	62	58	-	45	39.0	39.0	A048	65	CARRIER / CE3A	28x26
CC-4	HF-4	1ST FLOOR	1525	.31	-	78	62	58	-	45	39.0	39.0	A048	65	CARRIER / CE3A	28x26

NOTES:

1. AIR PRESS. DROP IS FOR WET CONDITION.
2. DRAIN PRE CONNECTED TO COIL IS 3/8".
3. REFRIGERANT LEAD LENT IS 3/8".
4. PROVIDE 1/2" SERVICE CLEARANCE ON PRE CONNECTION SIDE.

AIR COOLED CONDENSING UNITS SCHEDULE

TAG	SERVICE	TOTAL CAPACITY (MBH)	SENSIBLE (MBH)	SST	O.A. TEMP.	POWER KW	V/PH/Hz	ELECTRICAL MCA	MFA	ICF	MANUFACTURER/MODEL	REMARKS
CU-1	CC-1 COIL	52.9	52.9	45	95	-	208/1/60	34.2	50	-	CARRIER / 24QCS 60-30	-
CU-2	CC-2 COIL	42.5	41.9	45	95	-	208/1/60	26.2	40	-	CARRIER / 24QCS 48-30	-
CU-3	CC-3 COIL	42.5	41.9	45	95	-	208/1/60	26.2	40	-	CARRIER / 24QCS 48-30	-
CU-4	CC-4 COIL	42.5	41.9	45	95	-	208/1/60	26.2	40	-	CARRIER / 24QCS 48-30	-

ELECTRIC HEATING DEVICES SCHEDULE

TAG	DIMENSIONS	RTU/HR OUTPUT	WATTS	POWER	MANUFACTURER/MODEL	REMARKS
EH-1	WALL HEATER	10.235	3000	208/1/60	QMARK / AMH4407	SEE PLANS FOR QUANTITY
EH-A	16x14x85	10.235	3000	208/1/60	BERKS / HUHMA220	PROVIDE INTEGRAL THERMOSTAT

GAS FIRED MAKE-UP AIR SCHEDULE

TAG	SERVICE & LOCATION	SUPPLY FAN DATA			HEATING		VOLTAGE	MANUFACTURER/MODEL	REMARKS	
		TOTAL CFM	O.A. CFM	S.P.	HP	RPM				AIR SIZE EA/LAT
MUA-1	KITCHEN HOOD	3800	3800	0.5	1.5	680	6/79	400/300	208-1-60 GREENHECK / KSF-112	ARRANGEMENT DB W/ ROOF CURB

FAN/VENTILATOR SCHEDULE

TAG	SERVICE	CFM	HP	SP	RPM	POWER	MANUFACTURER/MODEL	DRIVE	WEIGHT	REMARKS
EF-1	STORAGE	480	0.40	.50	1100	115/1/60	GREENHECK SP-255	DIRECT	34	CEILING EXH. FAN ④
KEF-1	KITCHEN HOOD	4000	2.0	1.50	1858	208/1/60	GREENHECK SWB-216-20	BELT	251	②⑥
EF-A	BATHROOM									②③①
EF-B	BATHROOM	225	.12	.25	1247	115/1/60	PAVASONIC PV-30 NLE1	DIRECT	23	CEILING EXH. FAN ④
RH-A	ELEVATOR SHAFT	N/A	N/A	N/A	N/A	N/A	GREENHECK GRSR24	N/A		MIN. THROAT AREA = 3 S.F.

NOTES:

1. REMARKS
 ④ SEE ELECTRICAL PLANS FOR SPECIFICATION.
 ② WITH ADJUSTABLE FAN CONTROL.
 ③ PROVIDE 1/2" SERVICE CLEARANCE DELAY SWITCH.
 ⑥ WITH CURB
 ③ INTERLOCK WITH MUA

ROOFTOP AIR CONDITIONING SCHEDULE

TAG	SERVICE	CFM	MIN O.A. CFM	DB/MB SENS. MBH	TOTAL MBH	ESP	HEATING MBH INPUT	VOLTAGE OUTPUT	MCA	MFA	MANUFACTURER/MODEL	ACCESSORIES:	WEIGHT LB	
RTU-1	KITCHEN	5000	750	95/67	117	155	0.6 180/224	144/179	208-3-60	65.2	80	CARRIER / 48-TF-014	W/ ROOF CURB	1320
RTU-2	DINING	7500	2680	95/67	159	218	0.6 275	223	208-3-60	90.0	110	CARRIER / 48-TF-020	W/ ROOF CURB	2000
RTU-3	OFFICE	4000	480	95/67	89	118	0.6 130/188	96/144	208-3-60	44.2	50	CARRIER / 48-TF-012	W/ ROOF CURB	1300
RTU-4	OFFICE	4000	480	95/67	89	118	0.6 130/188	96/144	208-3-60	44.2	50	CARRIER / 48-TF-012	W/ ROOF CURB	1300
RTU-5	OFFICE	3000	720	95/67	68	91	0.6 125	100	208-3-60	40.1	45	CARRIER / 48-TF-008	W/ ROOF CURB	1100

HVAC ABBREVIATIONS

°F	DEGREES FAHRENHEIT	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
ø	DIAMETER	MCA	MINIMUM CAPACITY
AAV	AUTOMATIC AIR VENT	MCA	MECHANICAL
AS	AIR SEPARATOR	MOD	MOTORIZED DAMPER
AV	AIR VENT		
AV	ATMOSPHERIC VENT		
N/A	NOT APPLICABLE		
B	BOILER		
BTU/H	BRITISH THERMAL UNIT PER HOUR		
CFM	CUBIC FEET PER MINUTE		
CO	CLEAN-OUT		
CU	CONDENSING UNIT		
D	CONDENSATE DRAIN		
DB	DRY BULB TEMPERATURE		
DX	DIRECT EXPANSION		
EAT	ENTERING AIR TEMPERATURE		
ESP	EXHAUST STATIC PRESSURE		
EXT	EXTERNAL		
EXH	EXHAUST		
FA	FREE AREA		
FLA	FULL LOAD AMPS		
FTR	FINNED TUBE BASEBOARD HEATER		
GF	GAS FURNACE		
H	HUMIDIFIER		
HC	HEATING COIL		
HP	HORSEPOWER		
HZ	HERTZ		
IN	INCHES		
KW	KILOWATT		
LAT	LEAVING AIR TEMPERATURE		
LMT	LEAVING WATER/GLYCOL TEMPERATURE		
RA	REQUIRED		
RECO	RETURN AIR		
RF	RADIANT FLOOR		
RM	RADIANT MANIFOLD		
RPM	REVOLUTIONS PER MINUTE		
RZ	ROOM ZONE		
SP	SQUARE FEET/USER		
SG	SUPPLY GRILLE		
T	TYPICAL		
UC	UNDERCUT DOOR		
UNO	UNLESS NOTED OTHERWISE		
V	VOLTS		
VO	VOLUME DAMPER		
W/O	WITHOUT		
WG	WATER COLUMN		
WM	WATER MESH		
WMS	WIRE MESH SOREIN		

HVAC LEGEND

→	AIR FLOW (SUPPLY)
↖	AIR FLOW (RETURN OR EXHAUST)
→	FLOW DIRECTIONAL ARROW
↖	PITCH DIRECTIONAL ARROW
↺	7 DAY PROGRAMMABLE THERMOSTAT
Ⓡ	TEMPERATURE SENSOR
ⓧ	KEYED NOTE
↗	BACKRAFT DAMPER
↘	MOTORIZED DAMPER