

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information			
Building number, street name			Unit no.
			Lot/con.
Municipality	Postal code	Plan number/ other description	
INNISFIL			
B. Individual who reviews and takes responsibility for design activities			
Name		Firm	
MICHAEL O'ROURKE		HVAC DESIGNS LTD.	
Street address		Unit no.	Lot/con.
375 FINLEY AVE		202	N/A
Municipality	Postal code	Province	E-mail
AJAX	L1S 2E2	ONTARIO	info@hvacdsgns.ca
Telephone number	Fax number	Cell number	
(905) 619-2300	(905) 619-2375	()	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1 OF Division C]			
☐ House ☒ HVAC – House ☐ Building Structural ☐ Small Buildings ☐ Building Services ☐ Plumbing – House ☐ Large Buildings ☐ Detection, Lighting and Power ☐ Plumbing – All Buildings ☐ Complex Buildings ☐ Fire Protection ☐ On-site Sewage Systems			
Description of designer's work		Model: 45-3	
HEAT LOSS / GAIN CALCULATIONS			
DUCT SIZING			
RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY		Project: ALCONA	
RESIDENTIAL SYSTEM DESIGN per CSA-F280-12			
D. Declaration of Designer			
I, <u>MICHAEL O'ROURKE</u>		declare that (choose one as appropriate):	
(print name)			
☐ I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: _____ Firm BCIN: _____			
☒ I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code. Individual BCIN: 19669 Basis for exemption from registration and qualification: O.B.C SENTENCE 3.2.4.1 (4)			
☐ The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: _____			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge.			
2. I have submitted this application with the knowledge and consent of the firm.			
June 23, 2017			
Date		Signature of Designer	

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d). of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

SITE NAME: ALCONA
BUILDER: BAYVIEW WELLINGTON
DATE: Jun-17
LO# 74597
TYPE: 45-3
GFA: 3273
WINTER NATURAL AIR CHANGE RATE 0.332
SUMMER NATURAL AIR CHANGE RATE 0.087
HEAT LOSS AT °F. 83
HEAT GAIN AT °F. 12
CSA-P280-12
SB-12 PACKAGE A1

ROOM USE EXP. WALL CLG. HT.	MBR	ENS	WIC	BED-2	BED-3	BED-4	ENS-2/3	BED-5	WIC-3	ENS-4/5	LOSS GAIN
GRS.WALL AREA	340	288	99	342	295	108	54	108	144	63	
GLAZING											
NORTH	23.3	15.8	0	0	0	0	0	0	0	0	
EAST	23.3	41.4	0	0	0	0	0	0	0	0	
SOUTH	23.3	24.7	0	0	0	0	0	0	0	0	
WEST	23.3	41.4	0	0	0	0	0	0	0	0	
SKYLT.	40.8	101.3	0	0	0	0	0	0	0	0	
DOORS	27.6	4.1	0	0	0	0	0	0	0	0	
NET EXPOSED WALL	4.9	0.7	306	1495	219	271	1324	194	99	484	
NET EXPOSED BSMT WALL ABOVE GR	3.9	0.6	0	0	0	0	0	0	0	0	
EXPOSED CLG	1.4	0.6	400	562	231	208	292	120	88	124	
NO ATTIC EXPOSED CLG	3.0	1.2	0	0	0	0	0	0	0	0	
EXPOSED FLOOR	2.8	0.4	0	0	0	0	0	0	0	0	
BASEMENT/CRAWL HEAT LOSS											
SLAB ON GRADE HEAT LOSS											
SUBTOTAL HT LOSS											
SUB TOTAL HT GAIN	1857	1018	607	3575	2090	1144	826	596	1037	637	
LEVEL FACTOR / MULTIPLIER	0.20	0.27	0.20	0.27	0.20	0.27	0.20	0.27	0.20	0.27	
AIR CHANGE HEAT LOSS	757	542	164	963	653	308	222	299	279	170	
AIR CHANGE HEAT GAIN	111	61	7	454	119	37	105	36	38	19	
DUCT LOSS	0	0	0	0	0	0	0	0	0	0	
DUCT GAIN	0	0	0	0	0	0	0	0	0	0	
HEAT GAIN PEOPLE	240	0	0	1	240	1	0	240	0	0	
HEAT GAIN APPLIANCES/LIGHTS	796	0	0	796	796	796	0	796	0	0	
TOTAL HT LOSS BTU/H	3616	2554	771	4891	3218	1452	1153	1409	1316	802	
TOTAL HT GAIN x 1.3 BTU/H	4218	1402									

ROOM USE EXP. WALL CLG. HT.	LVDN	KTFM	LAUN	PWD	FOY	LIBR	WOD	BAS
GRS.WALL AREA	370	840	231	154	176	308	513	1434
GLAZING								
NORTH	0	0	0	0	0	0	0	0
EAST	0	0	0	0	0	0	0	0
SOUTH	50	1165	1237	0	0	0	0	0
WEST	0	0	0	0	0	0	0	0
SKYLT.	40.8	101.3	0	0	0	0	0	0
DOORS	27.6	4.1	0	0	0	0	0	0
NET EXPOSED WALL	4.9	0.7	320	1563	229	0	0	0
NET EXPOSED BSMT WALL ABOVE GR	3.9	0.6	0	0	0	0	0	0
EXPOSED CLG	1.4	0.6	0	0	0	0	0	0
NO ATTIC EXPOSED CLG	3.0	1.2	0	0	0	0	0	0
EXPOSED FLOOR	2.8	0.4	0	0	0	0	0	0
BASEMENT/CRAWL HEAT LOSS								
SLAB ON GRADE HEAT LOSS								
SUBTOTAL HT LOSS								
SUB TOTAL HT GAIN	1466	6104	368	752	1884	2425	2470	7889
LEVEL FACTOR / MULTIPLIER	0.30	0.41	0.30	0.41	0.30	0.41	0.50	1.06
AIR CHANGE HEAT LOSS	1114	2703	714	307	769	990	10996	10996
AIR CHANGE HEAT GAIN	88	365	22	7	17	135	83	83
DUCT LOSS	0	0	0	0	0	0	0	0
DUCT GAIN	0	0	0	0	0	0	0	0
HEAT GAIN PEOPLE	240	0	0	0	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS	796	796	796	0	0	796	0	0
TOTAL HT LOSS BTU/H	3842	9322	2464	1060	2653	3416	2470	18885
TOTAL HT GAIN x 1.3 BTU/H	3055	9446	1542	152	381	4141	1405	511

TOTAL HEAT GAIN BTU/H: 42101 TONS: 3.51 LOSS DUE TO VENTILATION LOAD BTU/H: 3122 STRUCTURAL HEAT LOSS: 65395 TOTAL COMBINED HEAT LOSS BTU/H: 68518
I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.
MICHAEL O'ROURKE
INDIVIDUAL BCIN: 15659

SITE NAME: ALCONA
BUILDER: BAYVIEW WELLINGTON

TYPE: 45-3 DATE: Jun-17 GFA: 3273 LO# 74597

HEATING CFM	1255	COOLING CFM	1255
TOTAL HEAT LOSS	65,395	TOTAL HEAT GAIN	41,643
AIR FLOW RATE CFM	19.19	AIR FLOW RATE CFM	30.14

furnace pressure 0.6
furnace filler 0.05
a/c coil pressure 0.2
available pressure for s/a & r/a 0.35
plenum pressure s/a 0.18
max s/a dif press. loss 0.02
min adjusted pressure s/a 0.16

AFUE = 96 %
INPUT (BTU/H) = 88,000
OUTPUT (BTU/H) = 85,000
FAN SPEED
LOW 0
MEDIUM 1105
HIGH 1255
DESIGN CFM = 1255
CFM @ .5" E.S.P.

All S/A diffusers 4"x10" unless noted otherwise on layout.
All S/A runs 5'x2 unless noted otherwise on layout.

TEMPERATURE RISE 63 °F

ROOM NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MBR	1.81	1.28	0.77	2.50	1.61	1.45	1.58	1.41	1.32	1.81	0.80	3.84	2.33	2.33	2.33	2.33	2.33	2.46	1.08	1.71	4.27	4.27	4.27	4.27
RM LOSS MBH	35	25	15	48	31	27	11	27	25	35	15	74	45	45	45	45	45	47	20	51	33	82	82	82
CFM PER RUN COOLING	64	21	5	70	62	66	12	65	26	64	13	92	71	71	71	71	71	46	5	11	62	12	12	12
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH.	55	72	53	45	37	46	34	50	37	74	48	11	56	42	44	61	62	30	29	22	45	50	35	21
EQUIVALENT LENGTH	200	180	130	150	170	120	140	180	170	150	170	90	130	110	150	130	140	120	140	120	140	100	140	140
TOTAL EFFECTIVE LENGTH	255	252	183	195	207	166	174	230	207	224	218	101	186	152	194	191	202	150	169	142	185	190	135	161
ADJUSTED PRESSURE	0.07	0.09	0.09	0.09	0.08	0.1	0.1	0.07	0.08	0.08	0.08	0.16	0.09	0.11	0.09	0.09	0.09	0.09	0.11	0.12	0.09	0.09	0.12	0.1
ROUND DUCT SIZE	5	4	4	5	5	5	4	5	4	5	4	5	5	5	5	5	4	4	4	4	5	5	5	5
HEATING VELOCITY (ft/min)	257	287	172	352	228	206	126	198	287	257	172	543	330	330	330	330	330	539	229	379	602	602	602	602
COOLING VELOCITY (ft/min)	470	241	57	514	455	485	138	477	298	470	149	675	521	521	521	521	528	57	126	711	88	88	88	88
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	B	D	D	E	F	F	C	E	A	C	F	B	B	A	A	A	A	D	E	B	A	C	C

ROOM NAME	25	26	27	28	29	30
BAS	4.27	1.28	2.50	1.61	0.58	LIBR
RM LOSS MBH	82	25	48	31	11	33
CFM PER RUN HEAT	12	21	70	62	12	62
ADJUSTED PRESSURE	0.16	0.17	0.17	0.17	0.17	0.17
ACTUAL DUCT LGH.	14	58	51	41	37	25
EQUIVALENT LENGTH	80	180	160	160	170	120
TOTAL EFFECTIVE LENGTH	94	238	211	201	207	145
ADJUSTED PRESSURE	0.17	0.07	0.08	0.09	0.08	0.12
ROUND DUCT SIZE	5	4	5	5	4	4
HEATING VELOCITY (ft/min)	602	287	352	228	126	379
COOLING VELOCITY (ft/min)	88	241	514	455	138	711
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	F	C	D	E	D	E

SUPPLY AIR TRUNK SIZE

TRUNK	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK A	0.07	9.1	10	8	0	0.00	0	0	8
TRUNK B	0.07	7.9	8	8	0	0.00	0	0	8
TRUNK C	0.07	12.8	20	8	0	0.00	0	0	8
TRUNK D	0.07	13.7	24	8	0	0.00	0	0	8
TRUNK E	0.08	7.7	8	8	0	0.00	0	0	8
TRUNK F	0.08	9.9	12	8	0	0.00	0	0	8

RETURN AIR TRUNK SIZE

TRUNK	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK G	0.15	14.80	14.80	14.80	0	0.05	0	0	8
TRUNK H	0.15	14.80	14.80	14.80	0	0.05	0	0	8
TRUNK I	0.15	14.80	14.80	14.80	0	0.05	0	0	8
TRUNK J	0.15	14.80	14.80	14.80	0	0.05	0	0	8
TRUNK K	0.15	14.80	14.80	14.80	0	0.05	0	0	8
TRUNK L	0.15	14.80	14.80	14.80	0	0.05	0	0	8

RETURN AIR #

AIR VOLUME	1	2	3	4	5	6	7	8	BR
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
ACTUAL DUCT LGH.	78	46	49	46	50	61	35	29	1
TOTAL EFFECTIVE LENGTH	185	155	175	155	205	230	225	195	0
ADJUSTED PRESSURE	0.06	0.07	0.07	0.07	0.06	0.05	0.06	0.07	0.07
ROUND DUCT SIZE	6.8	6.6	6	6	6	7	9.6	6.8	0
INLET GRILL SIZE	X	X	X	X	X	X	X	X	X
INLET GRILL SIZE	14	14	14	14	14	14	30	14	24

TYPE: 45-3
SITE NAME: ALCONA

LO # 74597

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES		9.32.3.1(1)
a)	☒ Direct vent (sealed combustion) only	
b)	☐ Positive venting induced draft (except fireplaces)	
c)	☐ Natural draft, B-vent or induced draft gas fireplace	
d)	☐ Solid Fuel (including fireplaces)	
e)	☐ No Combustion Appliances	

HEATING SYSTEM	
☒ Forced Air	☐ Non Forced Air
☐ Electric Space Heat	

HOUSE TYPE		9.32.1(2)
☒ I	Type a) or b) appliance only, no solid fuel	
☐ II	Type I except with solid fuel (including fireplaces)	
☐ III	Any Type c) appliance	
☐ IV	Type I, or II with electric space heat	
☐	Other: Type I, II or IV no forced air	

SYSTEM DESIGN OPTIONS		O.N.H.W.P.
☐ 1	Exhaust only/Forced Air System	
☐ 2	HRV with Ducting/Forced Air System	
☒ 3	HRV Simplified/connected to forced air system	
☐ 4	HRV with Ducting/non forced air system	
☐	Part 6 Design	

TOTAL VENTILATION CAPACITY		9.32.3.3(1)
Basement + Master Bedroom	2 @ 21.2 cfm	42.4 cfm
Other Bedrooms	4 @ 10.6 cfm	42.4 cfm
Kitchen & Bathrooms	5 @ 10.6 cfm	53 cfm
Other Rooms	5 @ 10.6 cfm	53.0 cfm
Table 9.32.3.A. TOTAL		190.8 cfm

PRINCIPAL VENTILATION CAPACITY REQUIRED		9.32.3.4.(1)
1 Bedroom	31.8	cfm
2 Bedroom	47.7	cfm
3 Bedroom	63.6	cfm
4 Bedroom	79.5	cfm
5 Bedroom	95.4	cfm
TOTAL		95.4 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	190.8	cfm
Less Principal Ventil. Capacity	139	cfm
Required Supplemental Capacity	51.8	cfm

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANEE 60H-V+	Location: BSMT
139.0 cfm	3.0 sones ☒ HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION				
CFM	ΔT °F	FACTOR	% LOSS	
139.0 CFM	83 F	X	1.08	X 0.25

SUPPLEMENTAL FANS		NUTONE		
Location	Model	cfm	HVI	Sones
ENS	QTXEN050C	50	☒	0.3
ENS-2/3	QTXEN050C	50	☒	0.3
ENS-4/5	QTXEN050C	50	☒	0.3
PWD	QTXEN050C	50	☒	0.3

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 60H-V+		
139 cfm high	50 cfm low	
75 % Sensible Efficiency @ 32 deg F (0 deg C)	☒ HVI Approved	

LOCATION OF INSTALLATION	
Lot:	Concession
Township:	Plan:
Address:	
Roll #	Building Permit #

BUILDER: BAYVIEW WELLINGTON	
Name:	
Address:	
City:	
Telephone #:	Fax #:

INSTALLING CONTRACTOR	
Name:	
Address:	
City:	
Telephone #:	Fax #:

DESIGNER CERTIFICATION	
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.	
Name:	HVAC Designs Ltd.
Signature:	<i>Michael O'Rourke</i>
HRAI #	001820
Date:	June-17

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** 45-3**BUILDER:** BAYVIEW WELLINGTON**SFQT:** 3273**LO#** 74597**SITE:** ALCONA**DESIGN ASSUMPTIONS**

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-11	OUTDOOR DESIGN TEMP.	84
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72

BUILDING DATA

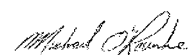
ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	44497.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 54.0 ft	WIDTH: 37.0 ft	EXPOSED PERIMETER:	182.0 ft

2012 OBC - COMPLIANCE PACKAGE

Component	Compliance Package A1	
	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value	60	59.22
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.65
Exposed Floor Minimum RSI (R)-Value	31	29.8
Walls Above Grade Minimum RSI (R)-Value	22	17.03
Basement Walls Minimum RSI (R)-Value	20 ci	21.12
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-Value	0.28	-
Skylights Maximum U-Value	0.49	-
Space Heating Equipment Minimum AFUE	0.96	-
HRV Minimum Efficiency	75%	-
Domestic Hot Water Heater Minimum EF	0.8	-

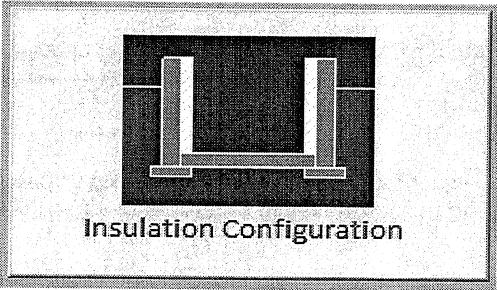
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Barrie	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	16.5	 Insulation Configuration
Floor Width (m):	11.3	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	
Window Area (m ²):	6.0	
Door Area (m ²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):	1866	

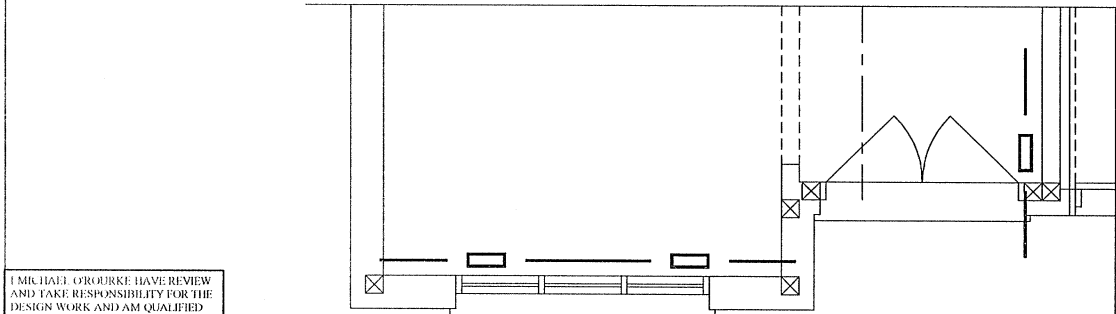
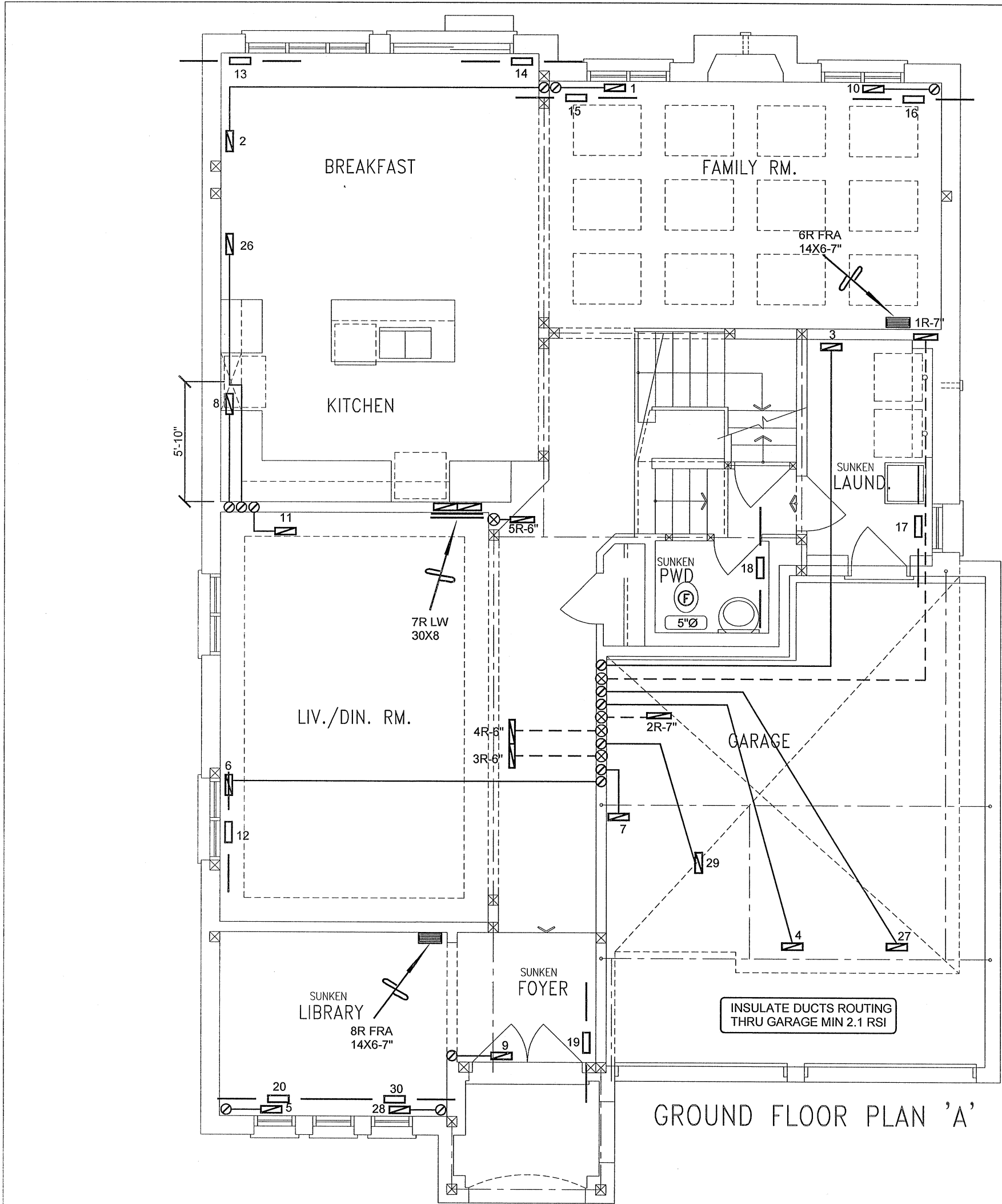
TYPE: 45-3
LO# 74597

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Barrie			
Weather Station Location:	Open flat terrain, grass			
Anemometer height (m):	10			
Local Shielding				
Building Site:	Suburban, forest			
Walls:	Heavy			
Flue:	Heavy			
Highest Ceiling Height (m):	6.71			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	1260.0			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	1679.6 cm ²		
	3.57	ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust		
	65.6	65.6		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):	0.332			
Cooling Air Leakage Rate (ACH/H):	0.087			

TYPE: 45-3
LO# 74597



Town of Innisfil Certified Model
04/01/2018 8:44:06 AM kgervais

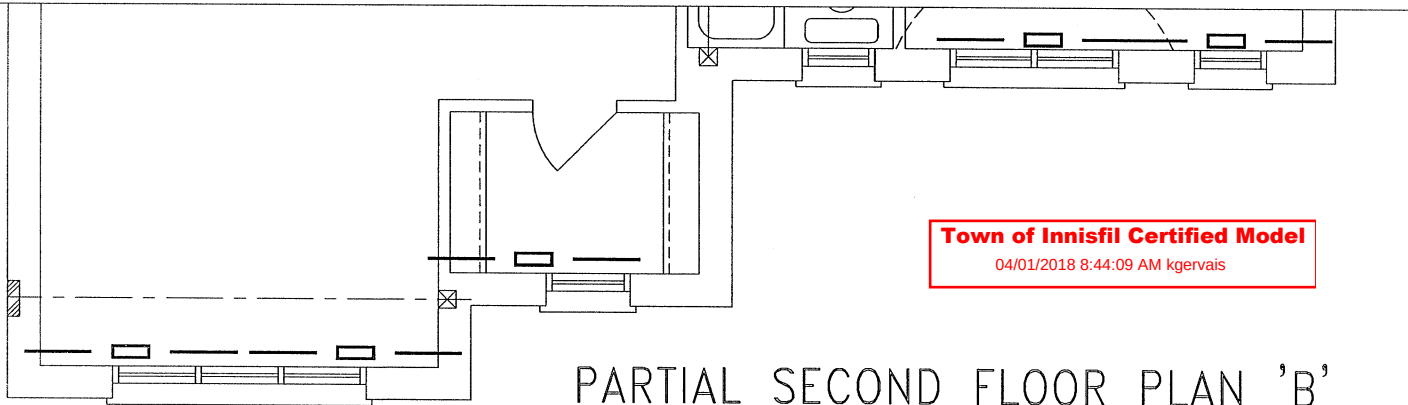
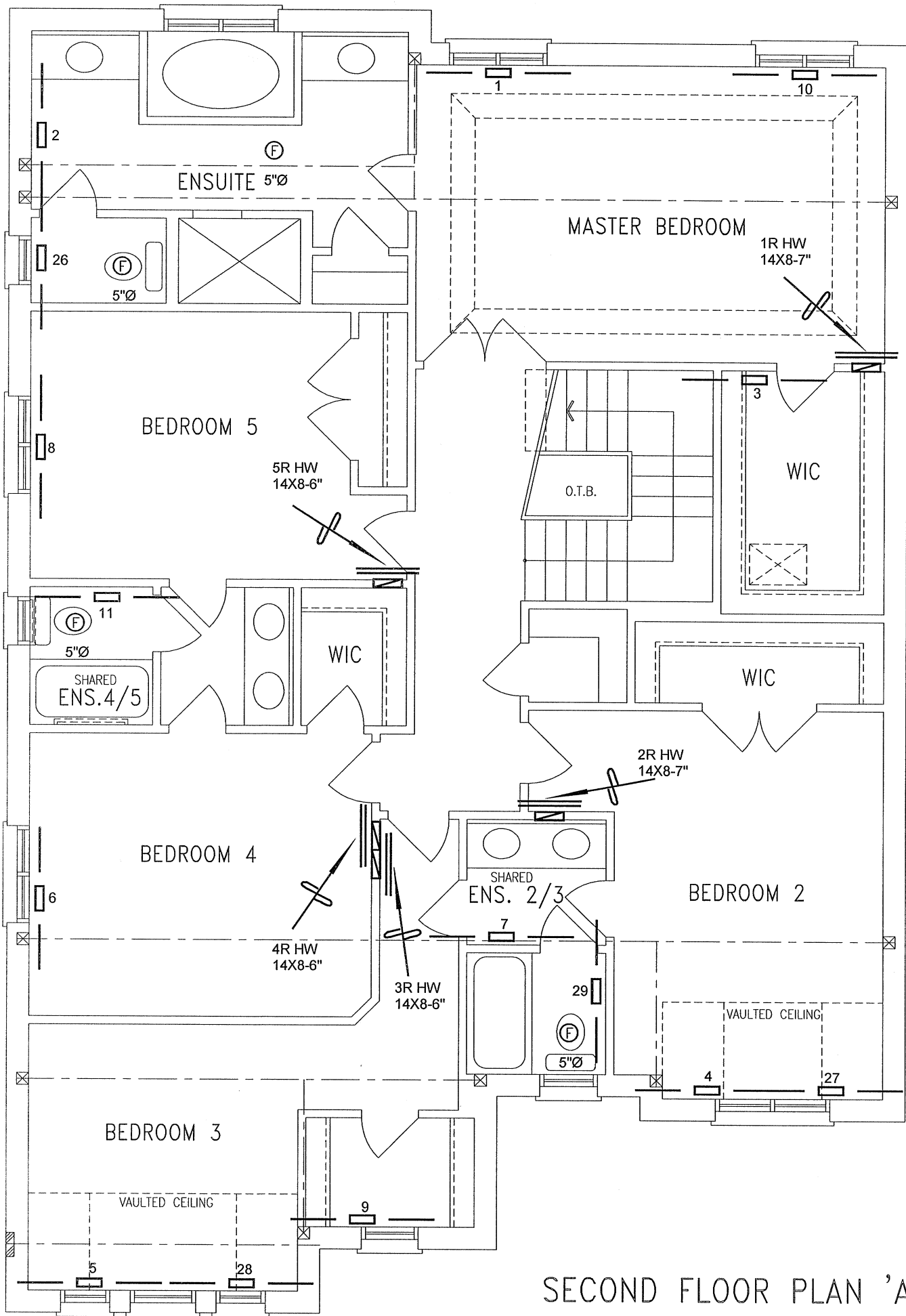
I, MICHAEL O'Rourke, HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C.3.2.5 OF THE BUILDING CODE.
Michael O'Rourke
Michael O'Rourke, LIC# 19669
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE A1

HVAC LEGEND								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	3.
	SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	2.
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA - FLOOR RETURN AIR GRILLE		REDUCER	1.
							No.	Description
								Date

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Client BAYVIEW WELLINGTON		 375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.	Sheet Title FIRST FLOOR HEATING LAYOUT	
Project Name ALCONA INNISFIL, ONTARIO			Date JUNE/2017	
45-3			Scale 3/16" = 1'-0"	
3273 sqft			BCIN# 19669	
			LO#	74597



I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C.3.2.5 OF THE BUILDING CODE

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS		

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BAYVIEW WELLINGTON			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	JUNE/2017
ALCONA INNISFIL, ONTARIO			Scale	3/16" = 1'-0"
			BCIN# 19669	
45-3	3273 sqft	LO#	74597	