

## **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				g address diversity	
Building number, street name			Unit	no.	Lot/con.
Municipality	Postal code	Plan number/ other desc	I cription		<u>L.                                    </u>
INNISFIL					
B. Individual who reviews and takes i	esponsibility fo	design activities	Alphania are periodical		
Name		Firm			
MICHAEL O'ROURKE Street address		HVAC DESIGNS LTD.	Unit no.		Lot/con.
375 FINLEY AVE			202		N/A
Municipality	Postal code	Province	E-mail		
AJAX	L1S 2E2	ONTARIO	info@hvacdesigns.	ca	
Telephone number (905) 619-2300	Fax number (905) 619-2375		Cell number		
C. Design activities undertaken by inc	 dividual identifie	d in Section B. (Build	 ing Code Table 3.5	21 OF Divis	ion Cl
			ing Sout Table C.	L. TOT DIVIS	
House	⊠ HVAC			ling Structure	
☐ Small Buildings ☐ Large Buildings		g Services on, Lighting and Pov	☐ Plum	ibing – Hous ibing – All Bu	
☐ Complex Buildings	☐ Fire Pro	otection		ite Sewage	•
Description of designer's work		Model:	TH-9		
HEAT LOSS / GAIN CALCULATIONS DUCT SIZING					
RESIDENTIAL MECHANICAL VENTILATIO	N DESIGN SUMMA	ARY Duringto	ALCONA		
RESIDENTIAL SYSTEM DESIGN per CSA-	F280-12	Project:	ALCONA		
D. Declaration of Designer				1.00	
MICHAEL O'ROURKE	nt name)		declare that (ch	oose one as ap	oropriate):
☐ I review and take responsibility fo	r the design work o	n hehalf of a firm register	ed under subsection 3	2.4 of	
Division C, of the Building Code. classes/categories.				appropriate	
Individual BCIN: _ Firm BCIN: _					
I review and take responsibility fo designer" under subsection 3.2		n qualified in the appropri n C, of the Building Code		her	
Individual BCIN:	19669				
Basis for exemption fr		qualification:	O.B.C SENTENC	E 3.2.4.1 (	<u>4</u> )
☐ The design work is exempt Basis for exemption from registra		on and qualification requir	ements of the Building	g Code.	
			ements of the Building	g Code. ——	
Basis for exemption from registra I certify that:	tion and qualificatio	n:		g Code.	
Basis for exemption from registra	tion and qualificatio in this schedu	n:in:	y knowledge.	g Code.	
Basis for exemption from registra I certify that:  1. The information contained 2. I have submitted this applicat	tion and qualificatio in this schedu	n:in:	y knowledge. m.	<u></u>	
Basis for exemption from registra I certify that:  1. The information contained 2. I have submitted this applicat  June 14, 2018	tion and qualificatio in this schedu	n:in:	y knowledge. m. Mahah	Hanhe	
Basis for exemption from registra I certify that:  1. The information contained 2. I have submitted this applicat	tion and qualificatio in this schedu	n:in:	y knowledge. m. Mahah	<u></u>	- gner

NOTE

<sup>1.</sup> 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.

<sup>2.</sup> 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.

375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375 Web. www hvacdesigns ca E-mail: info@hvacdesigns ca

HVVQ DESIGNS LTD.

BUILDER: BAYVIEW WELLINGTON	WELL	NGTON				TYPE: TH-9					GFA:	GFA: 1769		#OT	LO# 78878			SUMME	SUMMER NATURAL AIR CHANGE RATE	0.077	HEAT GAIN ∆T °F. 9	SB-12 PACKAGE A1
ROOM USE		MBR	~		ENS		*	WIC	_	BED-2	٠.		BED-3				BATH	_				
EXP. WALL		14			7			0		40			14				0					
CLG. HT.		6			6			6		6			6				ø					
FACTORS	s																					
GRS.WALL AREA LOSS GAIN	AIN	126			63			0		8			126				0					
GLAZING		LOSS	S GAIN	_	LOSS G	GAIN	2	LOSS GAIN	z	LOSS	GAIN		_	BAIN			LOSS	GAIN				
NORTH 23.3 1	15.0	0	0	•	0	•	0	0	-	0				-		•	0					
EAST 23.3 4	40.5	0	0	•	0	•	0	0	- 52	513				1338		•	0	0				
23.3	23.9	0	0	•	0	•	0	0 0	•	0			0	•		•	0	0				
WEST 23.3 4	40.5	28 652		13	303	527	0	0 0	•	0				-		-	0	0				
SKYLT. 40.8 9	9.8	0 0	0	•	0	•	0	0						-		-	0	0				
DOORS 27.6	3.1	0	0	•	0	•	0	0						-		-	-	· c				
NET EXPOSED WALL 4.9 (	0.5	98 479	53	20	244	27	0	0					454	. 20		-						
NET EXPOSED BSMT WALL ABOVE GR 3.9 (	0.4	0 0	0		0	0	0	0								_	0					
EXPOSED CLG 1.4 (	0.5 23	224 315		112	157	59	187 2	263 99						<u>~</u>		66	139					
3.0	7:	0	0	0	0	•		0 0	•	0	0	•	0	-		•	0					
EXPOSED FLOOR 2.8 (	0.3	0		•	0	•		0	120					**		4	123					
BASEMENT/CRAWL HEAT LOSS		0			0			0		0			0			:	0					
SLAB ON GRADE HEAT LOSS		0			0			0		0												-
SUBTOTAL HT LOSS		1446			704		7	263		1348			1479				262	-				
SUB TOTAL HT GAIN			1306	,,	-	613		66	_		1029		•	1474				99				
LEVEL FACTOR / MULTIPLIER	0,	0.20 0.44		0.20	0.44	_	0.20 0.	0.44	0.20	0.44		0.20	0.44			0.20	0.44					
AIR CHANGE HEAT LOSS		641			313			117		598			929									
AIR CHANGE HEAT GAIN			64			30		5			25			22				6				
DUCTLOSS		0			0			0		195			213				38	,				
DUCT GAIN			0			•		0			187			233				^				
HEAT GAIN PEOPLE 240		2	480			•	0	0	-		240	-		240		0					-	
HEAT GAIN APPLIANCE SALIGHTS			548			•		0			548			248								
TOTAL HT LOSS BTU/H		2087	_		1017		6	379		2141			2348				416					
TOTAL HT GAIN x 1.3 BTIIM			2440	_	•	2		•	_		į	_				_						

-				189	GAIN	0 0 0		0	536 933 0 0	0 0 0		, ,	406 45 69 272			0 0 0	2217	<b>i</b>	2489	226	0.50 1.82	6240				·	,	942 8728	1271
				432	GAIN	0 0	0 20 466	0	0	0	0 40 1106	97 372 1817	0	0	0 0	0 0	0		3389	97	0.30 0.55	1856	<b>167</b>		-	c		5245	133 1547
			-	0 180	GAIN	0	0	0 0	0 0 0	0 0 0	0 0	0 0 180	0 0	124 46 0	0	0 0				46	0.30	55	- 2			0		_	775
KTJFM	21	10		210	LOSS GAIN	0 0 0	0 0 0	0 0 0	59 1374 2392	0 0 0	20 553 61	640			0 0 0		•	0	2567	2524	0.30 0.55	1406	124	0	0	0	648	3973	4155
ROOM USE	EXP. WALL	CLG. HT.	FACTORS	GRS.WALL AREA LOSS GAIN	GLAZING	NORTH 23.3 15.0	EAST 23.3 40.5	SOUTH 23.3 23.9	WEST 23.3 40.5	SKYLT. 40.8 99.8	DOORS 27.6 3.1	NET EXPOSED WALL 4.9 0.5	NET EXPOSED BSMT WALL ABOVE GR 3.9 0.4	EXPOSED CLG 1.4 0.5	NO ATTIC EXPOSED CLG 3.0 1.1	EXPOSED FLOOR 2.8 0.3	BA SEMENT/CRAWL HEAT LOSS	SLAB ON GRADE HEAT LOSS	SUBTOTAL HTLOSS	SUB TOTAL HT GAIN	LEVEL FACTOR / MULTIPLIER	AIR CHANGE HEATLOSS	AIR CHANGE HEAT GAIN	DUCTLOSS	DUCT GAIN	HEAT GAIN PEOPLE 240	HEAT GAIN APPLIANCE SAIGHTS	TOTAL HT LOSS BTUIH	TOTAL HT GAIN x 1.3 BTU/H



MICHAEL O'ROURKE

INDIVIDUAL BCIN: 19669

TOTAL COMBINED HEAT LOSS BTU/H: 30245

STRUCTURAL HEAT LOSS: 28817

LOSS DUE TO VENTILATION LOAD BTU/H: 1429

TONS: 1.59

19050

TOTAL HEAT GAIN BTU/H:

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H\\\\A\\DESIGNS\LTD.

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	16 % 14.000 12,000	<b>685</b> " E.S.P.	22	23	322 322	11	0.70	3 5	. 7	130	151	E.,	25.	184	3X10									
	AFUE = 96 % (NPUT (BTU/H) = 44,000 OUTPUT (BTU/H) = 42,000	DESIGN CFM = 685 CFM @ .6 " E.S.P.	RE RISE _	22	3.22	11	0.70	67	34	150	184	0.03 -	ດ	184	3X10	Ç								
	INPUT (	DESIG	FEMPERATURE RISE	27	3.22 3.22	11	0.70	0.17	5.	140	191	0.03 1	ດ	184	3X10									
78878			Ħ	8 2	262	62	0.77	0 72	14	170	184	0.0 0.0	C YE	208	3X10									
700		0 0 800 800		19	2.62	62	0.77	074	27	130	157		246	206	3X10									
1769		MEDIOW MEDIUM MEDIUM MEDIUM HIGH	HGH	18	1.36	32	0.13	0.17	<u></u> 2	130	140	7.7	787	57	3X10	1								
GFA: 1769	EL196UH045XE24B FAN SPEED	MEDIU		17	0.18	4	0.78	0.17	34	155	189	60:0	4 4	321	3X10									
				15 77.77	1.99	47	2.08	0.17	38	130	9 7	  	345	551	3X10									
Jun-18		0.17	0.15	14 VT/TN	1.99	47	2.08	0.17	20	130	9 5	- - -	345	551	3X10									
DATE: Jun-18		r/a pressure r/a grille press. Loss	adjusted pressure r/a																					
	0.6 0.05 0.2	0.18 0.02	0.16	10 MRR	1.04	22	1.56	0.17	58	140	198		184	419	3X10 A									
TYPE: TH-9	furnace pressure furnace filter a/c coil pressure available pressure for c/a & r/a		min adjusted pressure s/a	7 3ATH	0.42	9	0.10 4	0.17	16	160	1/6 0.1	4	115	46	3X10 B									
				6 3FD-3	•																			
	685 18.892 36.26	Bas 1		5 BED-3 F	•										 ဥပ္သ									
STON		1st	ļ	4 3ED-2		51	2.6 <i>/</i> 97	0.16	35	175	707	9	260	495	Ф В В									
TE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON	COOLING CFM TOTAL HEAT GAIN AIR FLOW RATE CFM	2nd 9	on layout out.	K Kic	0.38	6	5 2	0.17	45	160	0.08	4	103	27	3X10 B									
ALCONA SAYVIEW	AIR	3rd 0 0 0	otherwise se on layo	ENS	1.02	24	30 4	0.17	49	120	60.0	4	275	344	3X10 B									
SITE NAME: ALCONA BUILDER: BAYVIEW	685 28.817 23.77	0 0	ss noted o	MBR 1	1.04	52	1.30 57	0.17	74	180	0.07	വ	184	419	3X10 A									
SITE BU	HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	RUN COUNT S/A R/A	All S/A runs 5"Ø unless noted otherwise on layout	RUN# ROOM NAME	RM LOSS MBH.	CFM PER RUN HEAT	CFM PER RUN COOLING	ADJUSTED PRESSURE	ACTUAL DUCT LGH.	TOTAL EFFECTIVE LENGTH	ADJUSTED PRESSURE	ROUND DUCT SIZE	HEAT ING VELOCITY (ft/min)	COOLING VELOCITY (ft/min)	OUTLET GRILL SIZE TRUNK	3 2 3 6	ROOM NAME	RM LOSS MBH.	CFM PER RUN HEAT	RM GAIN MBH.	CFM PER RUN COOLING	ADJUSTED PRESSURE	ACTUAL DUCT LGH.	TOTAL EFFECTIVE I ENGTH

SUPPLY AIR TRUNK SIZE																								
				1												¥.	KELUKN AIK IKUNK SIZE	KUNK SIZ	ш					
	KUNK	SIAIIC	ROUND	RECT			VELOCITY		r <del>-</del>		_	GNUOF	RECT		>	FLOCITY	¥	RUNK ST	STATIC ROL	_	CT		VE	YLIOC
		PRESS.	DUCT	DUCT			(ff/min)					DUCT	DUCT			(H/min)	٠	_			<u> </u>		•	-
TRUNK A		0.07	9.5	9	×	ထ	536	TR				0	_	>				•	,					
TRUNK B		0.07	10.6	14	×	œ	550	Ξ				0	0	: ×		<u> </u>								
TRUNK C		0.0	8.2	10	×	9	617	=				0	0	: ×										·····
TRUNK D	0	0.0	0	0	×	8	0	Ŧ				0	0	: ×										
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AIR VOLUME	75	82	82	82	250	0	C									_								
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15																	-
ACTUAL DUCT LGH.	26	32	40	43	12	-																		
EQUIVALENT LENGTH	185	165	165	165	101	- c	- c																	<del>-</del>
TOTAL EFFECTIVE LH	241	197	202	208	112	·	·									2 5								
ADJUSTED PRESSURE	90.0	0.08	0.07	0.07	0.13	14.80	14.80	_	_				_		_	9 8								
ROUND DUCT SIZE	5.7	5.6	5.8	2.8	7.4	c						_			_	00.0								
INLET GRILL SIZE	œ	œ	œ	œ	ေ	0	. 0	. 0	0	. 0	, 0		o c	o c	o c	- α								
	×	×	×	×	×	×	×																	
INLET GRILL SIZE	4	14	14	14	14	0	0									, T								
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TOTAL EFFECTIVE LENGTH
ADJUSTED PRESSURE
ROUND DUCT SIZE
HEATING VELOCITY (#min)
COOLING VELOCITY (#min)
OUTLET GRILL SIZE
TRUNK

MICHAEL O'ROURKE



10/24/2018 5:27:47 PM kbayley

375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375 Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

TYPE: SITE NAME: TH-9 ALCONA

LO# 78878

### RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL \	ENTILATION CAPACITY		9.32.3.5.
a)		Total Ventilation Cap	pacity	137.8	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil	. Capacity	63.6	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplement	ntal Capacity	74.2	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAU	ST FAN CAPACITY		
		Model:	VANEE 65H	Location:	BSMT
HEATING SYSTEM		63.6	cfm3.0	sones	✓ HVI Approved
Forced Air Non Forced Air			ST HEAT LOSS CALCULAT	TON	
		CFM 63.6 CFM	ΔT °F X 83 F	FACTOR X 1.08	% LOSS X 0.25
Electric Space Heat		SUPPLEMENTAL F	ANG		
		Location	Model Model	NUTONE cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	✓ 0.3
✓ I Type a) or b) appliance only, no solid fuel		BATH	QTXEN050C	50	✓ 0.3
Type a) or b) appliance only, no solid ruel		W/R	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplaces)	)	HEAT RECOVERY \			
III Any Type c) appliance		Model:	VANEE 65H		9.32.3.11.
IV Type I, or II with electric space heat		155	_ cfm high	64	_ cfm low
Other: Type I, II or IV no forced air		75	% Sensible Efficiency		✓ HVI Approved
			@ 32 deg F ( 0 deg C)		
YSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INST	ALLATION		
1 Exhaust only/Forced Air System		Lot:		Concession	
		Township		Plan:	
2 HRV with Ducting/Forced Air System		Address			
HRV Simplified/connected to forced air system		Roll #		Building Permi	it#
4 HRV with Ducting/non forced air system		BUILDER:	BAYVIEW WELLINGT		
Part 6 Design			BATVIEW WELLINGT	ON	
		Name:			
OTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:			
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:		~	
Other Bedrooms 2 @ 10.6 cfm 21.2	cfm	Telephone #:		Fax #:	
Kitchen & Bathrooms         4         @ 10.6 cfm         42.4	cfm	INSTALLING CONTR	ACTOR		
Other Rooms <u>3</u> @ 10.6 cfm <u>31.8</u>	cfm	Name:			
Table 9.32.3.A. TOTAL <u>137.8</u>	cfm	Address:			
		City:			
RINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		Fax #:	
1 Bedroom 31.8	cfm			1 αλ π.	
2 Bedroom 47.7	cfm		ls ventilation system has been	designed	
3 Bedroom 63.6	cfm	in accordance with the Name:	e Ontario Building Code. HVAC Designs Ltd.		
4 Bedroom 79.5	cfm	Signature:	Mho	had Offenhe	
5 Bedroom 95.4	cfm	HRAI#	,,,,,	001820	
TOTAL 63.6 cfm		Date:		June-18	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL INDIVIDUAL BCIN: 19669 MICHAEL O'RO		ROPRIATE CATEGORY AS AN "C	OTHER DESIGNER" UNDER DIVISION	C, 3.2.5 OF THE BUILD	ING CODE.
Moral Offiche.					





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Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

#### **HEAT LOSS AND GAIN SUMMARY SHEET**

MODEL: TH-9 **BUILDER: BAYVIEW WELLINGTON** SFQT: 1769 LO# 78878 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) 75 **BUILDING DATA** ATTACHMENT: **ATTACHED** # OF STORIES (+BASEMENT): 3 FRONT FACES: **EAST** ASSUMED (Y/N): Υ AIR CHANGES PER HOUR: 3.57 ASSUMED (Y/N): AIR TIGHTNESS CATEGORY: **AVERAGE** ASSUMED (Y/N): Υ WIND EXPOSURE: SHELTERED ASSUMED (Y/N): Υ HOUSE VOLUME (ft3): 24097.0 ASSUMED (Y/N): Υ INTERNAL SHADING: **BLINDS/CURTAINS ASSUMED OCCUPANTS:** 4 INTERIOR LIGHTING LOAD (Btu/h/ft²): 1.27 DC BRUSHLESS MOTOR (Y/N): **FOUNDATION CONFIGURATION** BCIN\_1 **DEPTH BELOW GRADE:** 6.0 ft LENGTH: 47.0 ft WIDTH: 21.0 ft **EXPOSED PERIMETER:** 65.0 ft

2012 OBC - COMPLIANCE PACKAGE		
Component	Compliance	Package
	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	29.80
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





HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

# **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

W	eather Sta	ation Description
Province:	Ontario	
Region:	Barrie	
	Site [	Description
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	on Dimensions
Floor Length (m):	14.3	
Floor Width (m):	6.4	
Exposed Perimeter (m):	19.8	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	2.1	
Door Area (m²):	0.0	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desig	n Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		650

**TYPE:** TH-9 **LO#** 78878





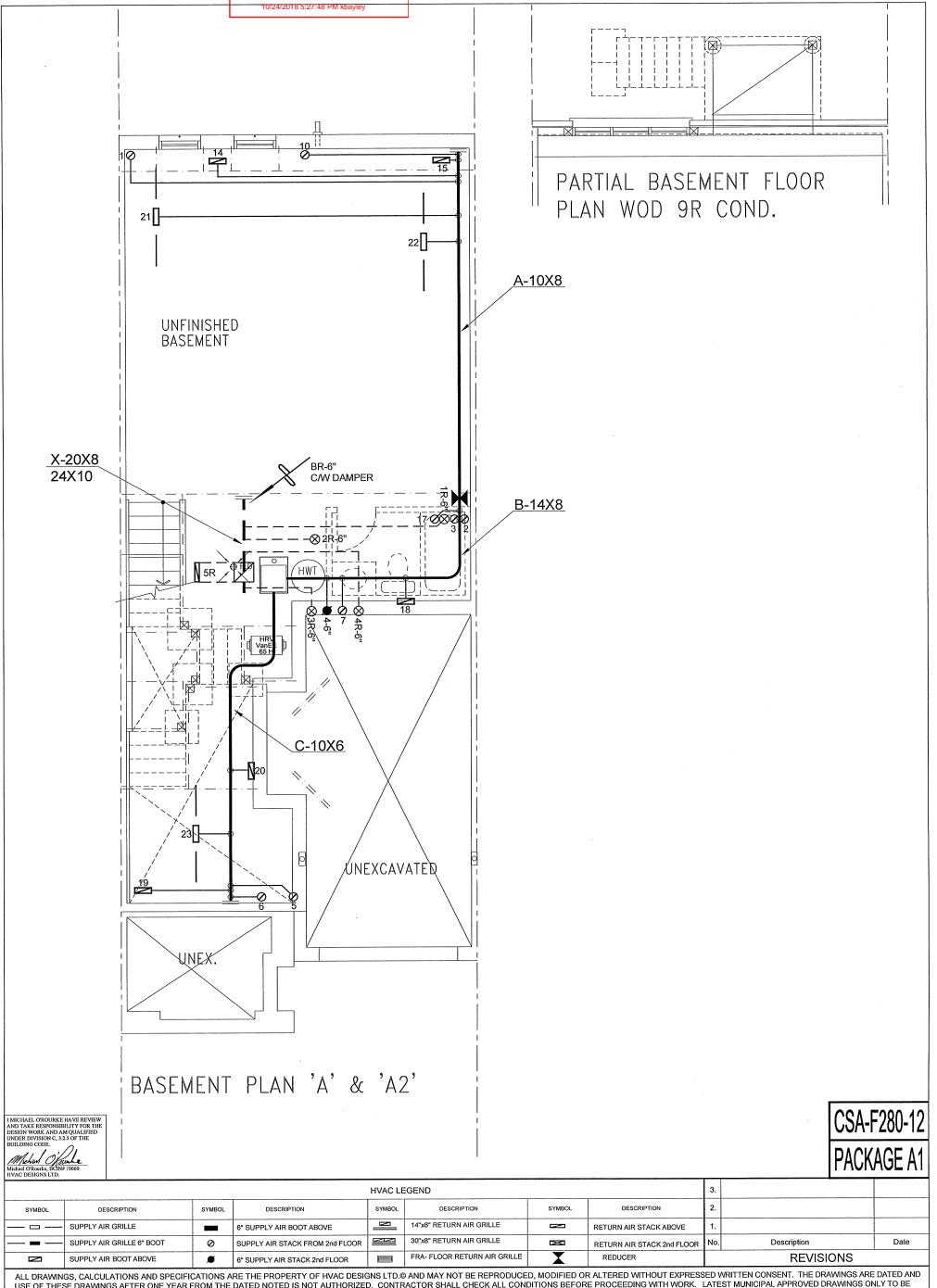
HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

## **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather Stat	on Des	script	ion		
Province:	Onta				
Region:	Barri	е			
Weather Station Location:	Oper	ı flat te	errain, į	grass	
Anemometer height (m):	10		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J	
Local S		g			
Building Site:		rban, f	orest		
Walls:	Heav	•			
Flue:	Heav	•			
Highest Ceiling Height (m):	6.71	-			
Building Co	nfigur	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	682.4	ļ			
Air Leakage	/Venti	latior	1		
Air Tightness Type:	Prese	nt (19	61-) (3.	.57 ACI	н)
Custom BDT Data:	ELA @	9 10 Pa	€.	***************************************	909.6 cm <sup>2</sup>
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply	•	Total Exhaust
		30.0			30.0
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infil	tration	Rate	:S		
Heating Air Leakage Rate (ACH/H)	:	0	.34	8	
Cooling Air Leakage Rate (ACH/H)		0	.07	7	

**TYPE:** TH-9 **LO#** 78878



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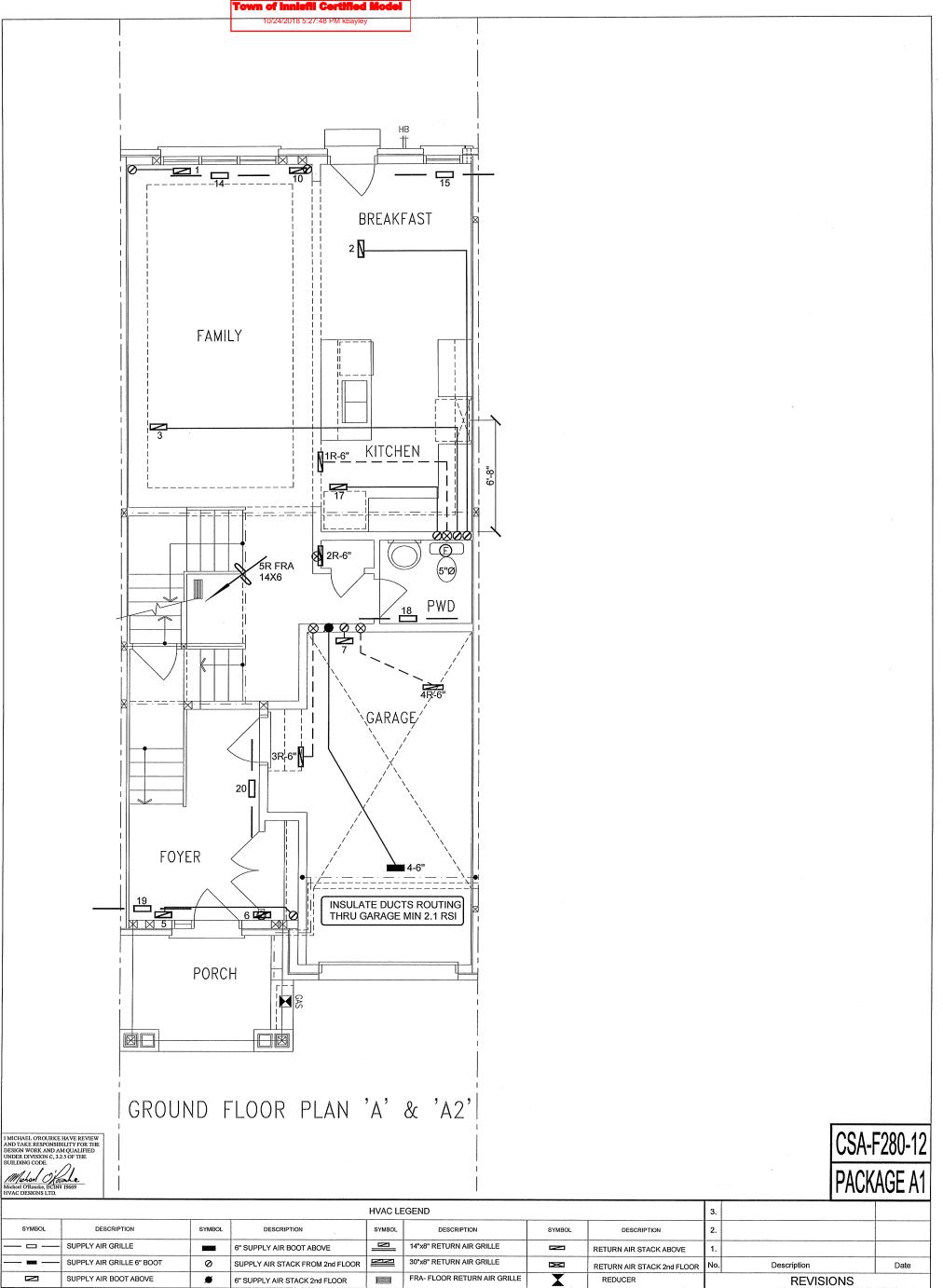
Project Name **ALCONA** INNISFIL, ONTARIO DESIGNS LTD.

375 Finley Ave. Suite 202 - Ajax, Ontario 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 1769 sqft adequately insulated and be gas-proofed.

01179								
BIO/H   # OF RUNS S/A R/A FANS		FANS	R/A	S/A	# OF RUNS	BTU/H	30245	HEAT LOSS
3RD FLOOR BASE	BA	-			3RD FLOOR		DATA	UNIT
2ND FLOOR 9 4 3 HEA	3 HI	3	4	9			NOX	MAKE LENI
24B 1ST FLOOR 5 1 2 LAY	2 L	2	1	5	1ST FLOOR	4B	045XE2	MODEL EL196UHO
MBTU/H BASEMENT 3 1 0 Date JUNE	0 Date J	0	1	3	BASEMENT	мвти/н	4	INPUT 4
MRTU/H ALL S/A DIFFUSERS 4 "x10" Scale 3/16" =	Scale 3	)"	4 "x10	SERS	ALL S/A DIFFUS	MRTU/H		OUTPUT
UNLESS NOTED OTHERWISE DOINH	SE DO	ISE	ERW	D OT	UNLESS NOTE		2	
TONS UNLAYOUT. ALL SIA RONS 5 D	SE T					TONS	.5	1.
ofm @ ON LAYOUT, UNDERCUT LO# 7	LO#						35	FAN SPEED 68
24B 1ST FLOOR 9 4 3 LAY0  24B 1ST FLOOR 5 1 2  MBTU/H BASEMENT 3 1 0  MBTU/H ALL S/A DIFFUSERS 4 "x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5"Ø UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT  cfm @ ON LAYOUT. UNDERCUT  7  HEAT LAYOUT Date JUNE Scale 3/16" = BCIN# ON LAYOUT. UNDERCUT  7	3 HI 2 L, 0 Date J Scale 3. SEE BO	2 0 "ISE S 5"Ø	1 4 "x10 HERWI RUNS HERWI CUT	5 SERS D OTH LL S/A D OTH NDER	2ND FLOOR  1ST FLOOR  BASEMENT  ALL S/A DIFFUS UNLESS NOTE ON LAYOUT. AL UNLESS NOTE ON LAYOUT. UNLESS NOTE	MBTU/H MBTU/H TONS	NOX 045XE2- 4 2	MAKE LENI MODEL EL196UHC INPUT 4. OUTPUT 4. COOLING 1. FAN SPEED

TH-9



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L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375
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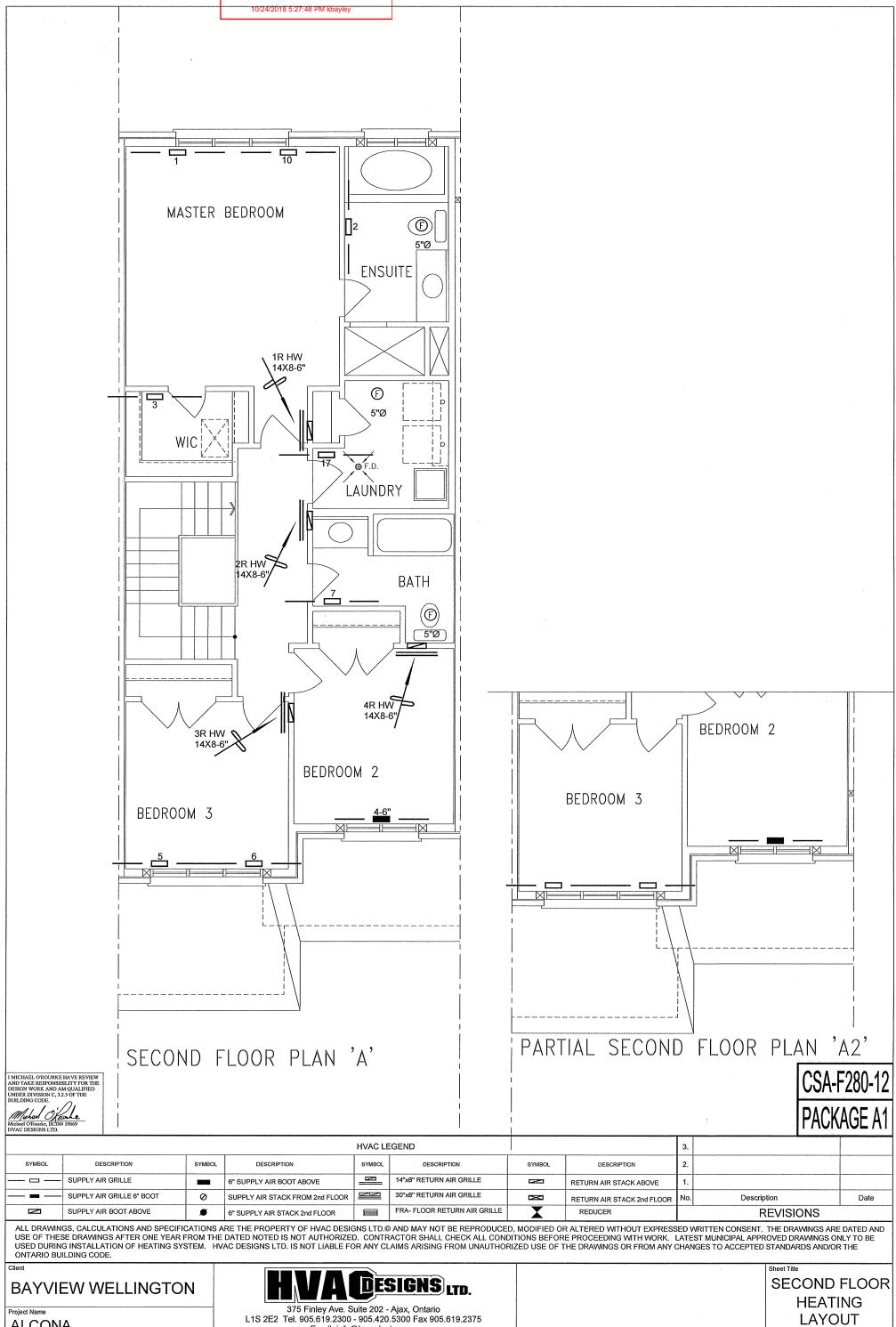
FIRST FLOOR HEATING LAYOUT

Date JUNE/2018
Scale 3/16" = 1'-0"
BCIN# 19669

LO# 78878

TH-9

1769 sqft



**ALCONA** INNISFIL, ONTARIO

1769 sqft

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Date JUNE/2018 3/16" = 1'-0" Scale

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78878 LO#