Schedule 1: Designer Information

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

A. Projec	t Informatio						A STATE OF THE STA	
Building nur	mber, street na	ame				Unit no		Lot/con.
Municipality			Postal code	Plan number/ ot	her description			l
INNISFIL					•			
B. Individ	ual who rev	iews and takes	responsibility t	for design activit	es			
Name				Firm		791 - 38 da 25 da 46 de mei 1		
MICHAEL C Street addre				HVAC DESIGNS				
375 FINLEY					Unit r 202	10.		Lot/con. N/A
Municipality	200 900 800 200 200 200 200 200 200 200 200 2		Postal code	Province	E-ma	il		
AJAX			L1S 2E2	ONTARIO	info@	hvacdesigns.ca		
Telephone n (905) 619-2			Fax number (905) 619-2375	;	Cell r	number)		
C. Design	activities u	ndertaken by in	`i dividual identif	fied in Section B.	[Duilding C	,	1 OF D:::	
20 July 1		indertaken by in	aividuai ideiitii	neu in Section B.	[Dunuing C	oue rable 3.5.2	.ועום אט ז.	sion Cj
☐ House			⊠ HVA	C – House		☐ Buildin	a Structu	ral
	Buildings			ing Services		Plumb	ing – Hou	se
	Buildings lex Building	ıs	☐ Detection	ction, Lighting ar Protection	nd Power	☐ Plumb ☐ On-site	ing – All E Sewage	Buildings Systems
Description of	of designer's v	vork		Me	odel: TH-6E		Cowage	Cystems
HEAT LOSS	6 / GAIN CAL	CULATIONS			Juon 111 01	-		
				l l				
		041 \/_1=1						
RESIDENTIA	AL MECHANI	CAL VENTILATIO		MARY	oject: ALCO	NA		
RESIDENTIA RESIDENTIA	AL MECHANIO AL SYSTEM D	ESIGN per CSA-		MARY Pr	oject: ALCO	NA		
RESIDENTIA RESIDENTIA	AL MECHANI	ESIGN per CSA- gner		MARY			SA ODA 25 21	opropriato):
RESIDENTIA	AL MECHANIC AL SYSTEM D ation of Desi	DESIGN per CSA- gner O'ROURKE		MARY		NA declare that (choo	se one as ap	opropriate):
RESIDENTIA RESIDENTIA D. Declara	AL MECHANICAL SYSTEM DESIGNATION OF DESIGNATION OF DESIGNATION OF THE PROPERTY	DESIGN per CSA- gner O'ROURKE (pr ke responsibility fone Building Code.	F280-12 int name) r the design work	Pr on behalf of a firm in the firm is register.	registered und	declare that (choo		opropriate):
RESIDENTIA RESIDENTIA D. Declara	AL MECHANI AL SYSTEM E Ation of Desi MICHAEL review and tal Division C, of the classes/catego	DESIGN per CSA- gner O'ROURKE (pr ke responsibility fone Building Code.	F280-12 int name) r the design work	on behalf of a firm i	registered und	declare that (choo	4.of	opropriate):
RESIDENTIA RESIDENTIA D. Declara I	AL MECHANICAL SYSTEM DE ALION OF DESI MICHAEL review and tal Division C, of the classes/catego Indirection in the control of the classes of	O'ROURKE O'ROURKE (pr ke responsibility fone Building Code. ries. vidual BCIN:	int name) r the design work I am qualified, and	on behalf of a firm i	registered und ed, in the	declare that (choo ler subsection 3.2. ar	4.of opropriate	opropriate):
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NOTE

^{1.} 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.

^{2.} 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.

10/24/2018 8:33:07 AM kbayley

CSA-F280-12 SB-12 PACKAGE A1 83 10 HEAT LOSS AT °F. HEAT GAIN AT °F. WINTER NATURAL AIR CHANGE RATE 0.348 SUMMER NATURAL AIR CHANGE RATE 0.081 9 0 Loss 0 140 0 0 252 0.28 70 355 32 0.20 DATE: Jun-18 LO# 78874 GAIN 0 898 918 2149 0 0 169 0 0 121 7 1223 8 295 240 476 0 313 90 56 0 0 342 .055 0 613 0.28 414 4553 904 0.20 GFA: 1802 282 0 0 223 30 20 2656 186 240 476 45 24 447 0 0 1617 0.28 207 2276 22 728 . . . 0.28 1276 279 0.20 622 56 0.28 197 9 0.70 GAIN 1408 3149 28 0 480 476 270 .0SS 0 0 2145 0.28 2745 SITE NAME: ALCONA
BUILDER: BAYVIEW WELLINGTON
ROOM USE 0.70 0 242 0 0 221 0 LOSS GAIN 40.8 100.3 3.4 0.6 0.5 1.2 0.3 FACTORS 23.3 23.3 23.3 23.3 23.3 40.8 4.9 4.9 3.9 3.0 240 GRS.WALL AREA EAST WEST SKYLT. ROOM USE EXP. WALL EXP. WALL CLG. HT. NORTH HEAT GAIN PEOPLE NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS DUCTLOSS **DUCT GAIN** HEAT GAIN APPLIANCE SALIGHTS TOTAL HT LOSS BTUIH TOTAL HT GAIN x 1.3 BTU/H

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348	LOSS	0	280	0	0	0	553	1544	0	0	0	0	0	0	2376		0.40	954		0				3330	
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GAIN

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580 -OSS

GRS.WALL AREA LOSS GAIN

23.3 23.3

EAST

FACTORS

GAIN 0 677 3552

0 0 652 2027

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40.8 40.8 40.8 100.3 3.4 0.6 0.5 0.5

3.9 3.0 3.0 2.8

EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN

40.8 27.6

SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR

23.3

2272

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186 000

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1458

TOTAL COMBINED HEAT LOSS BTU/H: 39312

STRUCTURAL HEAT LOSS: 37883

451

885

115

0

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240

HEAT GAIN PEOPLE

HEAT GAIN APPLIANCE SALIGHTS TOTAL HTLOSS BTUIH

TOTAL HT GAIN x 1.3 BTU/H TOTAL HEAT GAIN BTU/H:

AIR CHANGE HEAT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS

DUCTLOSS

DUCT GAIN

187

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142
ВТИ/Н:
LOAD
TILA TION
TO VENT
S DUE 1
ros

6720

6839

TONS: 1.99

23925



375 Finley Ave. Suite 202 Ajax, ON L15 2E2 Tel: 905.619.2300 Fax: 905.619.2375 Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

MICHAEL O'ROURKE

INDIVIDUAL BCIN: 19669

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

HWA DESIGNS LTD.

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Jun-18		!	0.17	0.02	2	14	KT/FM	7.3 V	2.24	75	0.17	25	25	0.14	2	360	3X10	∢														
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TYPE: TH-6E	furnace pressure furnace filter a/c coil pressure available pressure	ol s/a & 1/a	max s/a dif press, loss	min adjusted pressure s/a		7 BATH	0.35	7	60.0		31	130	161	0.11	4	34	3X10	0														
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SITE NAME: ALCONA BUILDER: BAYVIEW WELLINGTON	COOLING CFM TOTAL HEAT GAIN AIR FLOW RATE CFM	2nd 9	4	n layout.		<u>.</u>	•										3X10 4															
CONA CVIEW V	TC AIR F	3rd 2	0	erwise o	on layou	ENS V											3X10 33															
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	HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	RUN COUNT S/A	R/A	All S/A diffusers 4"x10" unless noted otherwise on layout	All S/A runs 5'10 unless noted otherwise on layout	ROOM NAME	RM LOSS MBH	CFM PER RUN HEA	CFM PFR RIIN COOLING	ADJUSTED PRESSURE	ACTUAL DUCT LGH	EQUIVALENT LENGTH	IOTAL EFFECTIVE LENGTH	AUJUSTED PRESSURE	HEATING VELOCITY (#/min)	COOLING VELOCITY (ft/min)	OUTLET GRILL SIZE	I KUIN	11 1110	ROOM NAME	RM LOSS MBH	CFM PER RUN HEAT	KM GAIN MBH.	AP HETEN DRIESING	ADJUSTED PRESSURE	EQUIVALENT LENGTH	TOTAL EFFECTIVE LENGTH	ADJUSTED PRESSURE	ROUND DUCT SIZE	COOL ING VELOCITY (#min)	OUTLET GRILL SIZE	TRUNK

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SOLILLI AIR INDIN SIZE																								
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EQUIVALENT LENGTH	195	230	155	175	5 5	- c	- c	- c	- c	- c		-	- (- ((2	DROP	800	0.05	14.5	24	×		480
TOTAL EFFECTIVE LH	237	271	204	227	154	· -	·	·	> -	> ~	> 4	> ₹	> •	۰ د	o ·	9 3								
ADJUSTED PRESSURE	90.0	0.05	0.07	0.07	0.10	14.80	14.80	14 80	14 80	14 80	- 74 - 00 - 74	14 00	- 7	- 2	- 3	700								
ROUND DUCT SIZE	9	9	9	9	68	<u>.</u>	2	2	2	5	0.4	0.4	14.80	9.4	14.80	0.07								
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MICHAEL O'ROURKE

10/24/2018 8:33:07 AM kbayley

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HVA DESIGNS LTD.

TYPE: SITE NAME:

TH-6E

ALCONA

LO# 78874

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.	.32.3.1(1)	SUPPLEMENTAL	VENTILATION CAPACITY		9.32.3.5
a) V Direct vent (sealed combustion) only		Total Ventilation Ca	pacity	148.4	_ cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	il. Capacity	63.6	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ntal Capacity	84.8	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAU	JST FAN CAPACITY		
		Model:	VANEE 65H	Location:	BSMT
HEATING SYSTEM		63.6	cfmsc	ones	✓ HVI Approved
Forced Air Non Forced Air			JST HEAT LOSS CALCULATION	<u> </u>	
		63.6 CFM	ΔT °F X 83 F	FACTOR X 1.08	% LOSS X 0.25
Electric Space Heat		SUPPLEMENTAL F	ANS	NUTONE	
		Location	Model	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
,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		W/R	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplaces)		HEAT RECOVERY	VENTILATOR		9.32.3.11.
III Any Type c) appliance		Model: 155	VANEE 65H cfm high	64	cfm low
IV Type I, or II with electric space heat		75	— % Sensible Efficiency		_
Other: Type I, II or IV no forced air		73	@ 32 deg F (0 deg C)		HVI Approved
		LOCATION OF INS	TALLATION		
SYSTEM DESIGN OPTIONS O.N	I.H.W.P.		IALLA HOR		
1 Exhaust only/Forced Air System		Lot:		Concession	
	-	Township		Plan:	
		Address			
HRV Simplified/connected to forced air system		Roll #		Building Permi	it #
4 HRV with Ducting/non forced air system		BUILDER:	BAYVIEW WELLINGTO	ON .	
Part 6 Design		Name:			
TOTAL VENTILATION CAPACITY 9.3	32.3.3(1)	Address:			
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			
Other Bedrooms	cfm	Telephone #:		Fax #:	
Kitchen & Bathrooms4 @ 10.6 cfm42.4	cfm	INSTALLING CONT	RACTOR		
Other Rooms 4 @ 10.6 cfm 42.4	cfm	Name:	T-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		· ************************************
Table 9.32.3.A. TOTAL 148.4	cfm	Address:			
		City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32	2.3.4.(1)			- "	
1 Bedroom 31.8	cfm	Telephone #:		Fax #:	
2 Bedroom 47.7	cfm	DESIGNER CERTIFI I hereby certify that the	CATION nis ventilation system has been	designed	
3 Bedroom 63.6	cfm		e Ontario Building Code. HVAC Designs Ltd.	•	
				11001	
4 Bedroom 79.5	cfm	Signature:	Mich	lad Offenhe	•
5 Bedroom 95.4	cfm	HRAI#		001820	
TOTAL 63.6 cfm I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIFIED	O IN THE APPR	Date:	OTHER DESIGNER" UNDER DIVISION I	June-18	DING CODE.



Town of Innisfii Certified Model

10/24/2018 8:33:07 AM kbayley

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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: TH-6E SFQT: 1802	LO# 78874	BUILDER: BAYVIEW WELLINGTON SITE: ALCONA					
DESIGN ASSUMPTIONS							
HEATING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. BUILDING DATA	°F -11 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	°F 84 74				
ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	3				
FRONT FACES:	EAST	ASSUMED (Y/N):	Y				
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Υ				
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Υ				
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y				
HOUSE VOLUME (ft³):	24399.0	ASSUMED (Y/N):	Υ				
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4				
INTERIOR LIGHTING LOAD (Btu/h	/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Υ				
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft				
LENGTH: 51.0 ft	WIDTH: 20.5 ft	EXPOSED PERIMETER:	112.0 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 Muhal Offente.



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	tion Description
Province:	Ontario	
Region:	Barrie	
	Site D	escription
Soil Conductivity:	Normal o	onductivity: dry sand, loam, clay
Water Table:	Normal (7-10 m, 23-33 ft)
	Foundatio	n Dimensions
Floor Length (m):	15.5	
Floor Width (m):	6.2	
Exposed Perimeter (m):	34.1	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	2.4	
Door Area (m²):	1.9	
	Radia	int Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Design	Months
Heating Month	1	
	Foundat	ion Loads
Heating Load (Watts):		1094

TYPE: TH-6E **LO#** 78874



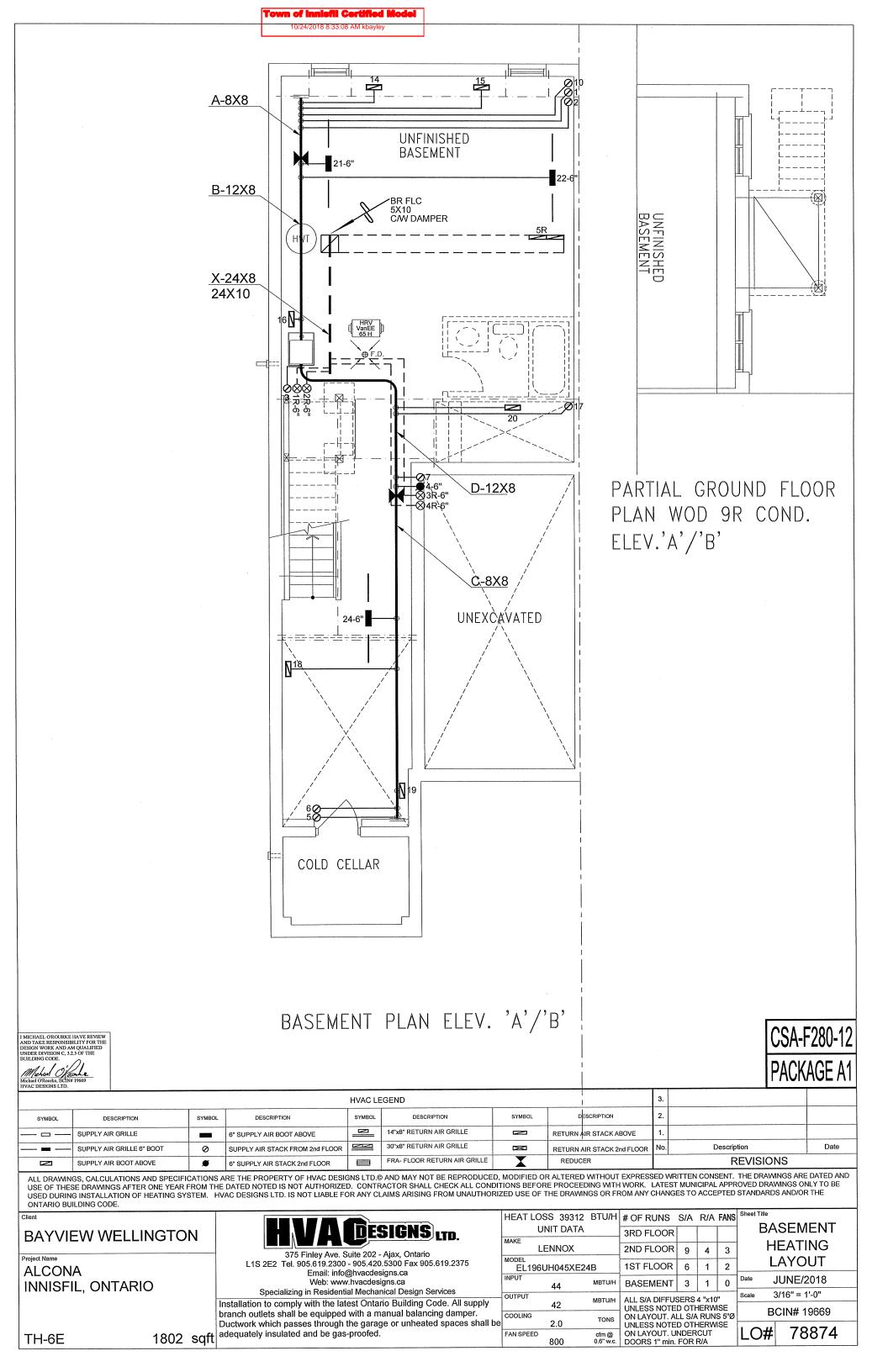
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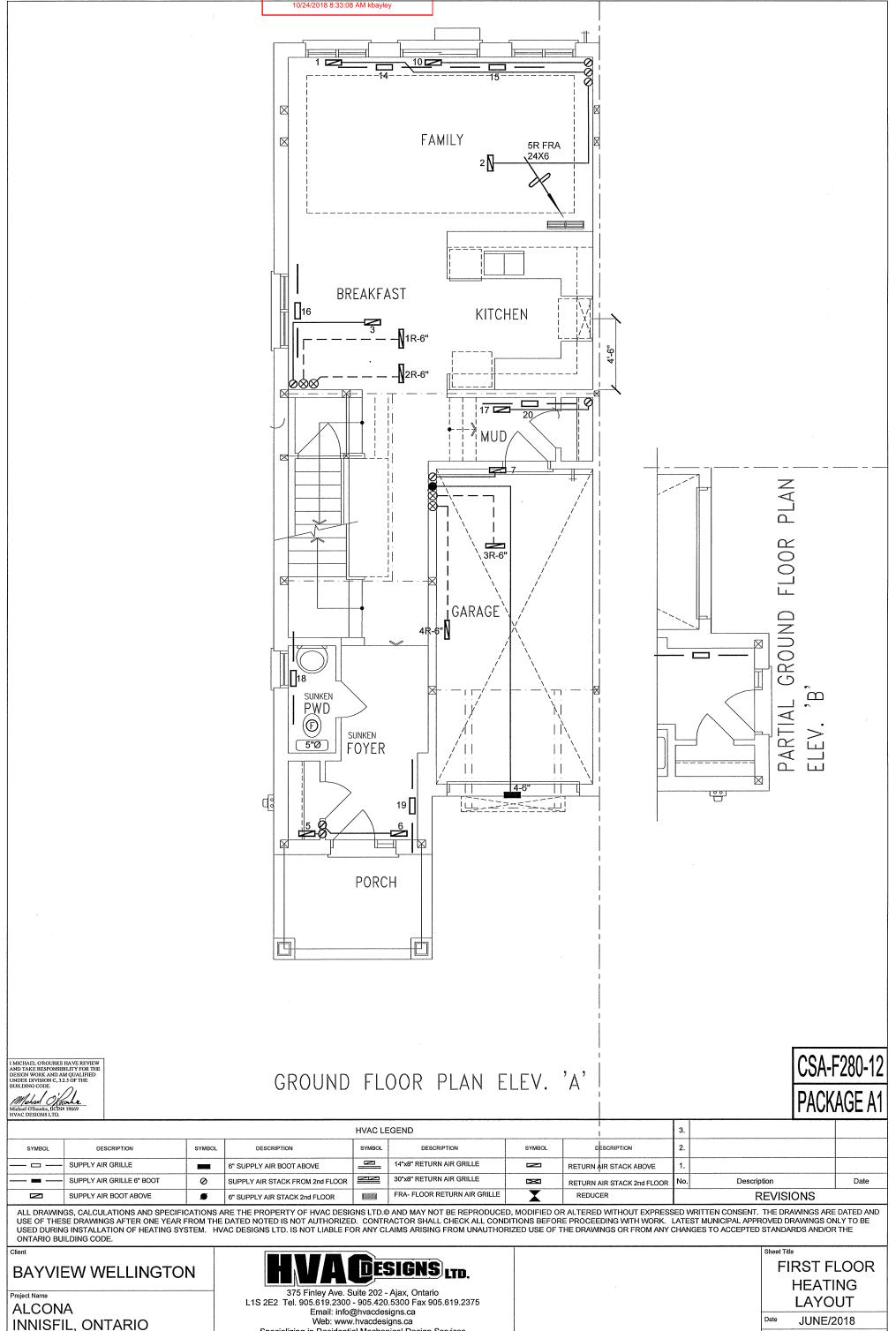
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stati	on De	scrip	tion		
Province:	Onta	rio			
Region:	Barri	e			
Weather Station Location:	Oper	n flat te	errain,	grass	
Anemometer height (m):	. 10				
Local St	nieldir	ıg			
Building Site:	Subu	rban, 1	orest		
Walls:	Heav	У			
Flue:	Heav	У			
Highest Ceiling Height (m):	6.71				
Building Co	nfigur	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	690.9)			
Air Leakage/	Venti	latio	า		
Air Tightness Type:	Prese	nt (19	61-) (3	.57 ACI	H)
Custom BDT Data:	ELA @	9 10 P	a.		921.0 cm²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	otal Sup	ply		Total Exhaust
		30.0			30.0
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infilt	ration	Rate	S		
Heating Air Leakage Rate (ACH/H):		C).34	8	
Cooling Air Leakage Rate (ACH/H):					

TYPE: TH-6E **LO#** 78874





TH-6E

1802 sqft

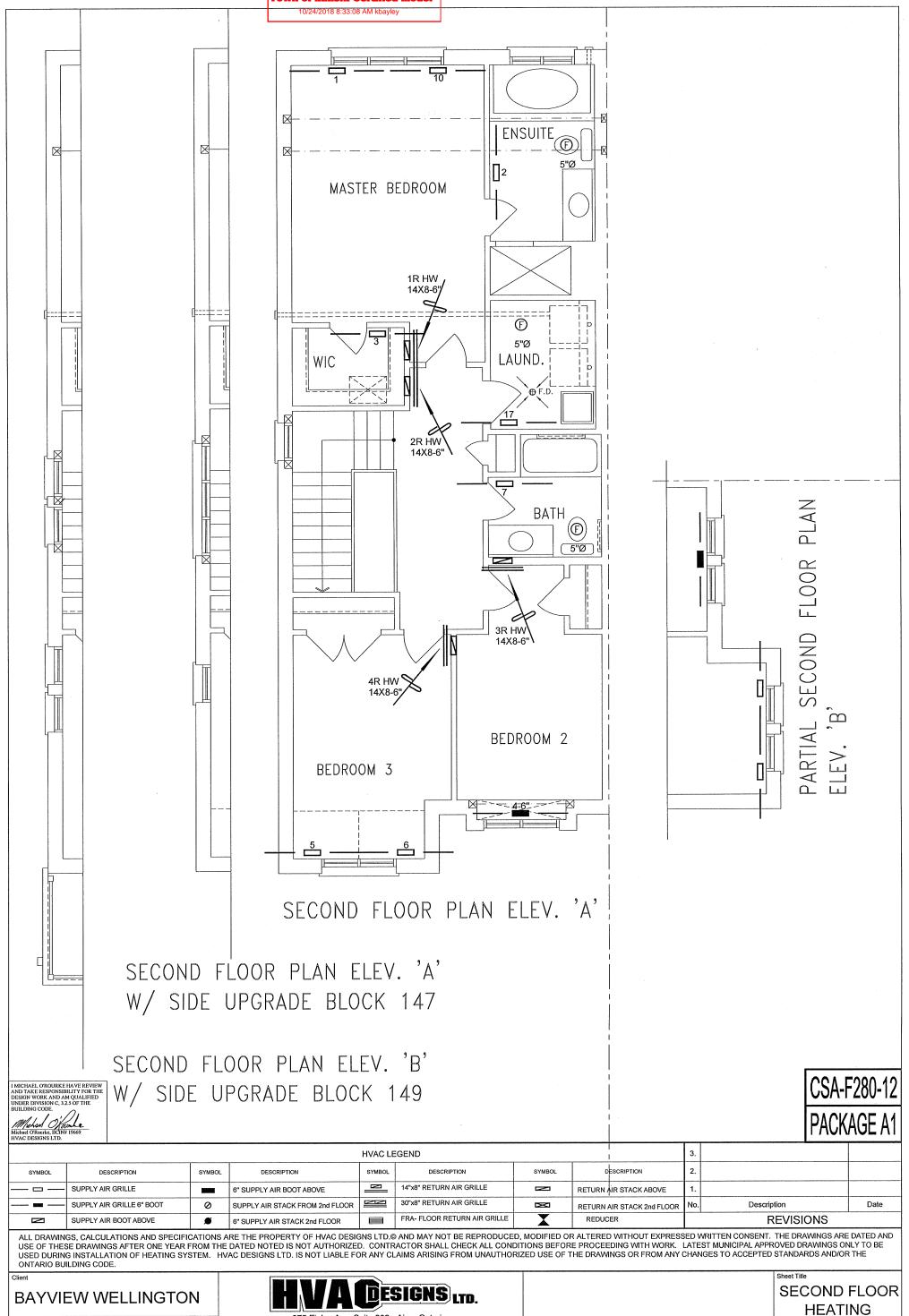
Specializing in Residential Mechanical Design Services

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.

3/16" = 1'-0" BCIN# 19669

LO#

78874



Project Name **ALCONA** INNISFIL, ONTARIO

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

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BCIN# 19669 78874

LAYOUT

JUNE/2018

3/16" = 1'-0"

TH-6E

1802 sqft