

SITE NAME:							TYPE:	no/ 5				_	FA: 20			DATE: Jan-17 LO# 71716				R NATURA R NATURA					HEAT LOSS			_	CSA-F280	
BUILDER:	GREEN	AKK H					TTPE:	IVYO	1400				FA: 20.			1			OMINE	RNATURA	LAIR CH			1.089	HEAT GAIN	Δ1 Ъ.	14		NERGYSI	AK T
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TOTAL HT GAIN x 1.3 BTU/H		<u></u>	Ľ	33! V/DN	52		1163		KT/FM			LAUN	960					FOY	637					686		`	WOD	LDING	BAS	NC
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TOTAL HT GAIN x 1.3 BTU/H  ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	20.4 20.4 20.4 20.4 20.4 35.7 1 24.1 3.1 3.6 1.4 2.3	AIN 16.3 11.9 25.3 11.9 02.2 4.7 0.6 0.7 0.7 1.2	L'1 0 0 28 0 0 0 0 0 0 0 0 0 0 0	338  V/DN  14  10  0 0  571  11: 0 0  0 0  0 0  0 0  0 0  0 0  0 0	IN '4		1163	0 0 55 0 20 375 0 0	KT/FM 45 10 450 0 0 1122 0 481 1150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 2305 0 93 2222 0 0 60	0 0 0 0 0 0 0	2 LAUN 0 9 0 LOSS G 0 0 0 0 0 132 0 0 0 0	AIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 10 0 0 0 20 220 0 0	FOY 25 10 250 LOSS 0 204 0 0 481 675 0 0 0 0 0 0 0 0	GAIN 0 419 0 0 93 131 0	111 100 1111 LOSS 0 0 0 0 0 0 0 0 0 20 481 90 276 0 0 0 0 0 0	0 0 0 0 0 0 1 93 6 53 0 0			686		12 0 0 0 0 0 0 156 0	WOD 28 9 252 COSS GA 245 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IN	BAS 94 9 7770 LOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIN () () () () () () () () () () () () ()
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TOTAL HEAT GAIN BTU/H:

22864

TONS: 1.91

LOSS DUE TO VENTILATION LOAD BTU/H: 2286

STRUCTURAL HEAT LOSS: 25991

TOTAL COMBINED HEAT LOSS BTU/H: 28277

Mehad Offante.



SITE NAME: LECCO RIDGE

Bl	JILDER:	GREEN	PARK HO	MES			T`	PE: IVY 5		DATE:	Jan-17		GFA: 2027	LO#	71716				
							fur	nace pressure	0.6										
HEATING CFM	890		coo	LING CFM	890			furnace filter	0.05				#	AMANA	4		AFUE =	96 %	
TOTAL HEAT LOSS	25,991		TOTAL H	EAT GAIN	22,422		a/	c coil pressure	0.2				AMEC960402BNA	40		INPUT	(BTU/H) =	40.000	
AIR FLOW RATE CFM	34.24	Α	IR FLOW F	RATE CFM	39.69		avail	able pressure					FAN SPEED				(BTU/H) =		
								for s/a & r/a	0.35				LOW					,	
RUN COUNT	4th	3rd	2nd	1st	Bas								MEDLOW			DESI	GN CFM =	890	
S/A	0	0	10	5	3		plenur	n pressure s/a	0.18	r/a pressure	0.17		MEDIUM				CFM @	6 " E.S.P.	•
R/A	0	0	3	2	1		max s/a	dif press. loss	0.03	r/a grille press. Loss	0.02		MEDIUM HIGH				_		
All S/A diffusers 4"x10" unle	ess noted	otherwis	e on layo	ut.			min adjuste	d pressure s/a	0.15	adjusted pressure r/a	0.15		HIGH	890	7	EMPERAT	URE RISE	40	۰F
All S/A runs 5"Ø unless note	ed otherv	vise on la	yout.																•
RUN#	1	2	3	4	5	6	7	9	10	12	14	15	17	19	20	21	22	23	
ROOM NAME	MBR	ENS	MBR	BED-2	BED-3	BED-3	BATH	COMP	WIC	LV/DN	KT/FM	KT/FM	LAUN	FOY	MUD	BAS	BAS	BAS	
RM LOSS MBH.	0.88	1.18	0.88	1.99	1.04	1.04	0.26	0.38	0.25	1.35	2.12	2.12	0.18	2.01	1.12	3.06	3.06	3.06	
CFM PER RUN HEAT	30	41	30	68	36	36	9	13	9	46	73	73	6	69	38	105	105	105	
RM GAIN MBH.	1.68	1.16	1.68	2.96	1.50	1.50	0.64	0.69	0.10	2.26	2.32	2.32	0.89	0.92	0.69	0.38	0.38	0.38	
CFM PER RUN COOLING	67	46	67	117	59	59	25	27	4	90	92	92	35	36	28	15	15	15	
ADJUSTED PRESSURE	0.17	0.17	0.17	0.15	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.17	0.17	0.17	0.16	0.16	0.16	
ACTUAL DUCT LGH.	49	31	40	53	60	56	43	26	75	44	23	34	30	42	20	27	13	36	
EQUIVALENT LENGTH	190	130	140	160	160	150	170	160	170	170	170	170	140	170	170	170	190	170	
TOTAL EFFECTIVE LENGTH	239	161	180	213	220	206	213	186	245	214	193	204	170	212	190	197	203	206	
ADJUSTED PRESSURE	0.07	0.11	0.1	0.07	0.08	0.08	0.08	0.09	0.07	0.08	0.08	0.08	0.1	0.08	0.09	0.08	0.08	0.08	
ROUND DUCT SIZE	5	4	5	6	5	5	4	4	4	6	6	6	4	5	4	6	6	6	
HEATING VELOCITY (ft/min)	220	470	220	347	264	264	103	149	103	235	372	372	69	507	436	535	535	535	
COOLING VELOCITY (ft/min)	492	528	492	597	433	433	287	310	46	459	469	469	402	264	321	76	76	76	
OUTLET GRILL SIZE	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	3X10	3X10	3X10	4X10	4X10	4X10	
TRUNK	С	C	C	В	Α	Α	В	В	В	A	C	C	В	A	B	C	C	4X10	

RUN# ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK

**RECEIVED** TOWN OF MILTON MAR 29, 2017 IVY 5 **BUILDING DIVISION** 

SUPPLY AIR TRUNK SIZE																	RETURN A	IR TRUNK	SIZE			***************************************		
	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY		TRUNK	STATIC	ROUND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)	į	CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A	292	0.08	8.8	10	X	8	526		TRUNK G	0	0.00	0	0	X	8	0	TRUNK O	0	0.05	0	0	х	8	0
TRUNK B		0.07	10.6	14	Х	8	559		TRUNK H	0	0.00	0	0	X	8	0	TRUNK P	0	0.05	0	0	х	8	0
TRUNK C	457	0.07	10.8	14	Х	8	588		TRUNK I	0	0.00	0	0	X	8	0	TRUNK Q	0	0.05	0	0	x	8	0
TRUNK D	0	0.00	0	0	х	8	0		TRUNK J	0	0.00	0	0	X	8	0	TRUNK R	0	0.05	0	0	x	8	0
TRUNK E	0	0.00	0	0	х	8	0		TRUNK K	0	0.00	0	0	X	8	0	TRUNK S	0	0.05	0	0	х	8	0
TRUNK F	0	0.00	00	00	X	8	0		TRUNK L	00	0.00	00	0	X	. 8	00	TRUNK T	0	0.05	0	0	х	8	0
																	TRUNK U	0	0.05	0	0	x	8	0
																	TRUNK V	0	0.05	0	0	x	8	0
RETURN AIR #	1	2	3	4	5											BR	TRUNK W	0	0.05	0	0	X	8	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		TRUNK X	890	0.05	15.1	26	X	8	616
AIR VOLUME	145	125	115	220	130	0	0	0	0	0	0	0	0	0	0	155	TRUNK Y	370	0.05	10.9	14	X	8	476
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	0	0.05	0	0	Х	8	0
ACTUAL DUCT LGH.	30	61	100	28	44	1	1	1	1	1	1	1	1	1	1	14	DROP	890	0.05	15.1	24	X	10	534
EQUIVALENT LENGTH	155	185	205	120	195	0	0	0	0	0	0	0	0	0	0	135								
TOTAL EFFECTIVE LH	185	246	305	148	239	. 1	. 1	1	. 1	. 1	. 1	. 1	. 1	1	1	149								
ADJUSTED PRESSURE	0.08	0.06	0.05	0.10	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.10								
ROUND DUCT SIZE	6.8	6.9	/	7.5	/	0	0	0	0	0	0	0	0	0	0	6.6								
INLET GRILL SIZE	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	8								
	X	X	X	X	X	X	Х	X	X	Х	Х	Х	X	Х	X	X								
INLET GRILL SIZE	14	14	14	14	14	0	0	0	0	0	0	0	0	0	0	14								



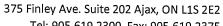
TYPE: SITE NAME: IVY 5

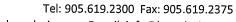
LECCO RIDGE

LO# 71716

## RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	0.00.0.4441				
COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION	ON CAPACITY		9.32.3.5.
a) Virect vent (sealed combustion) only		Total Ventilation Capacity	_	169.6	. cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Capacity	_	86	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capacit	<u> </u>	83.6	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CA	APACITY		
,		Model: VAI	NEE 40H+	Location:	BSMT
HEATING SYSTEM		86.0 cfm	3.0 sones		✓ HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT L	OSS CALCULATION		
		CFM 86.0 CFM X	ΔΤ °F 72 F X	FACTOR 1.08	% LOSS
Electric Space Heat		30.0 OF IM X	72	1.00	X 0.34
		SUPPLEMENTAL FANS Location		NUTONE	
HOUSE TYPE	9.32.1(2)		Model QTXEN050C	cfm 50	HVI Sones  ✓ 0.3
Type a) or b) appliance only no colid field		BATH	QTXEN050C	50	✓ 0.3
Type a) or b) appliance only, no solid fuel					
II Type I except with solid fuel (including fireplaces)					
III Any Type c) appliance		HEAT RECOVERY VENTILATO  Model:	OR VANEE 40H+		9.32.3.11.
		86	cfm high	37	cfm low
IV Type I, or II with electric space heat		66 % S	ensible Efficiency	ī	LIVI Approved
Other: Type I, II or IV no forced air			2 deg F ( 0 deg C)	ı	_ ✓ HVI Approved
		LOCATION OF INSTALLATION			
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INSTALLATION	•	RE	CEIVED
1 Substitute ashulf-second Air Country		Lot:	Co	TOWN	OF MILTON
1 Exhaust only/Forced Air System		Township	Pli	MA	R 29, 2017
2 HRV with Ducting/Forced Air System					IVY 5
		Address		BUILDI	ING DIVISION
		Roll #			OF MILTON
4 HRV with Ducting/non forced air system		BUILDER: GF			EVELOPMENT
Part 6 Design				WED	IVY 5 MODEL
		Name:	BUILDING: REVIE SCOTT SHERRIF		APR 7, 2017
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	PLANS EXAMINER		DATE
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	Neither the issuance of a inspections by the Town		
			full responsibility for com the Ontario Building Cod	pliance with	the provisions of
Other Bedrooms	cfm	Telephone #:	Code, both as amended, statutes and regulations	as well as o	other applicable nce on Ontario,
Kitchen & Bathrooms4 @ 10.6 cfm42.4	cfm	INSTALLING CONTRACTOR	By-laws of the Region of	Halton and	Town of Milton
Other Rooms <u>6</u> @ 10.6 cfm <u>63.6</u>	cfm	Name:			
Table 9.32.3.A. TOTAL <u>169.6</u>	cfm	Address:			
		City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Tolophono #	_		
1 Bedroom 31.8 cfm		Telephone #:	Fa:	x #:	
2 Bedroom 47.7 cfm		DESIGNER CERTIFICATION  I hereby certify that this ventilation	n system has been design	ned	
3 Bedroom 63,6 cfm		in accordance with the Ontario B			
4 Bedroom 79.5 cfm		Signature:		n 1 /20	
,,,,,			Milabar C		
		HRAI#	00	1820	
More than 5 - Part 6 TOTAL 63.6 cfm  I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALI	EIED IN THE APP	Date:	Jane	uary-17	







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

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

MODEL:	IVY 5			BUILDER: GREENPARK HOMES	
SFQT:	2027	LO#	71716	SITE: LECCO RIDGE	
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOOF	R DESIGN TEMP.		0	OUTDOOR DESIGN TEMP.	86
INDOOR D	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	i DATA				
ATTACHM	IENT:		ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		3	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EXP	POSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	DLUME (ft³):		27333.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS	S/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR	LIGHTING LOAD (Btu/h	n/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	ION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.4 ft
LENGTH:	51.0 ft	WIDTH:	24.0 ft	EXPOSED PERIMETER:	94.0 ft

2012 OBC - COMPLIANCE PACKAGE		
Component		Compliance Packag
		Nominal
Ceiling with Attic Space Minimum RSI (R)-Value		50
Ceiling Without Attic Space Minimum RSI (R)-Value		31
Exposed Floor Minimum RSI (R)-Value		31
Walls Above Grade Minimum RSI (R)-Value		20+3.6
Basement Walls Minimum RSI (R)-Value		20
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)-Val	ue	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	RECEIVED	10
Windows and Sliding Glass Doors Maximum U-Value	TOWN OF MILTON	ZONE 2
Skylights Maximum U-Value	MAR 29, 2017	ZONE 2
Space Heating Equipment Minimum AFUE	IVY 5	0.95
HRV Minimum Efficiency	BUILDING DIVISION	65%
Domestic Hot Water Heater Minimum EF		90% TE

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





## **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

We	ather Sta	tion Description
Province:	Ontario	
Region:	Milton	
	Site D	escription
Soil Conductivity:	Normal	conductivity: dry dand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
F	oundatio	n Dimensions
Floor Length (m):	15.5	
Floor Width (m):	7.3	
Exposed Perimeter (m):	28.7	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.95	Insulation Configuration
Window Area (m²):	1.1	
Door Area (m²):	1.9	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desig	n Months
Heating Month	1	
	Founda	ation Loads
Heating Load (Watts):		857

**TYPE:** IVY 5 **LO#** 71716

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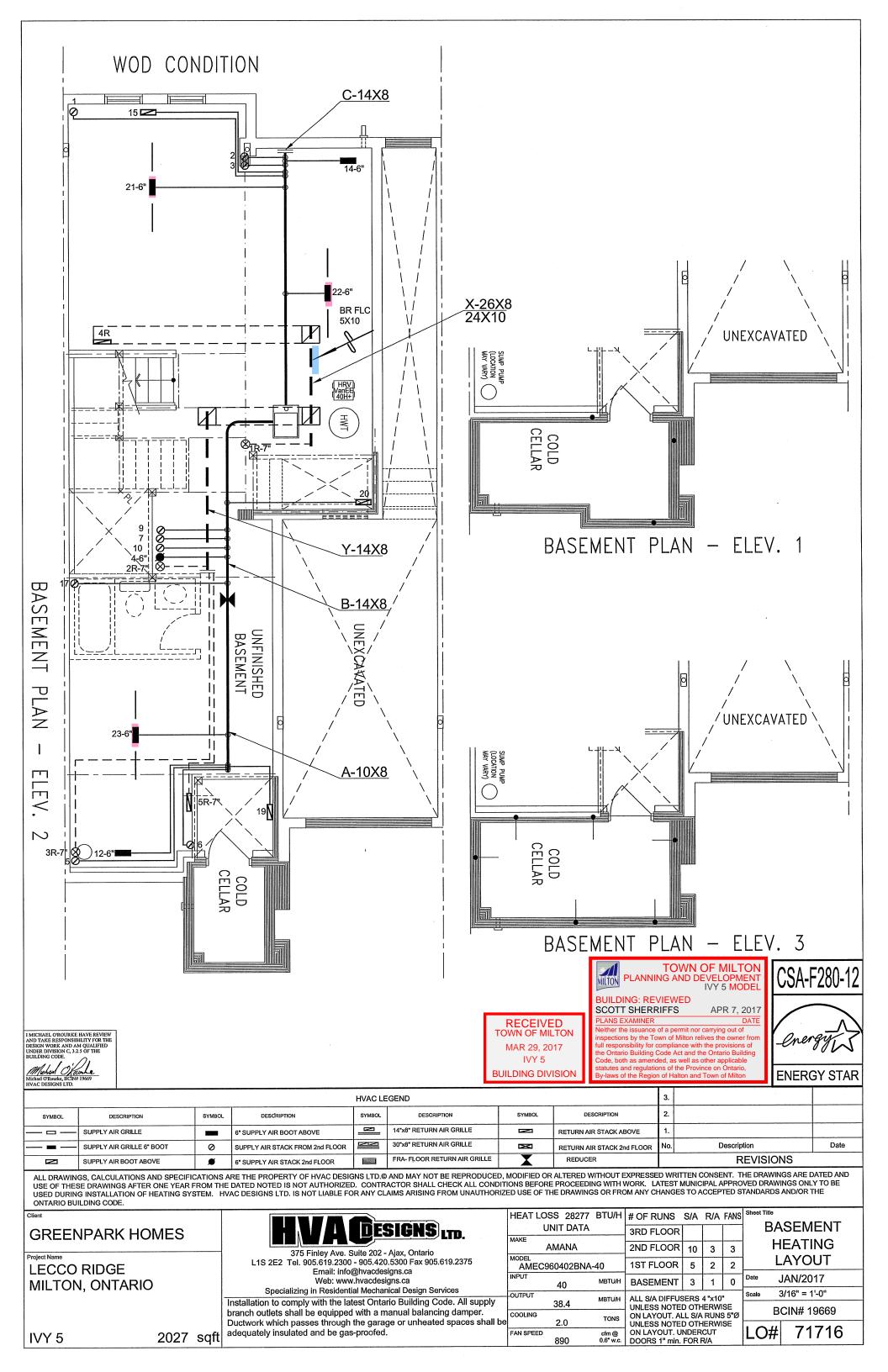
## **Air Infiltration Residential Load Calculator**

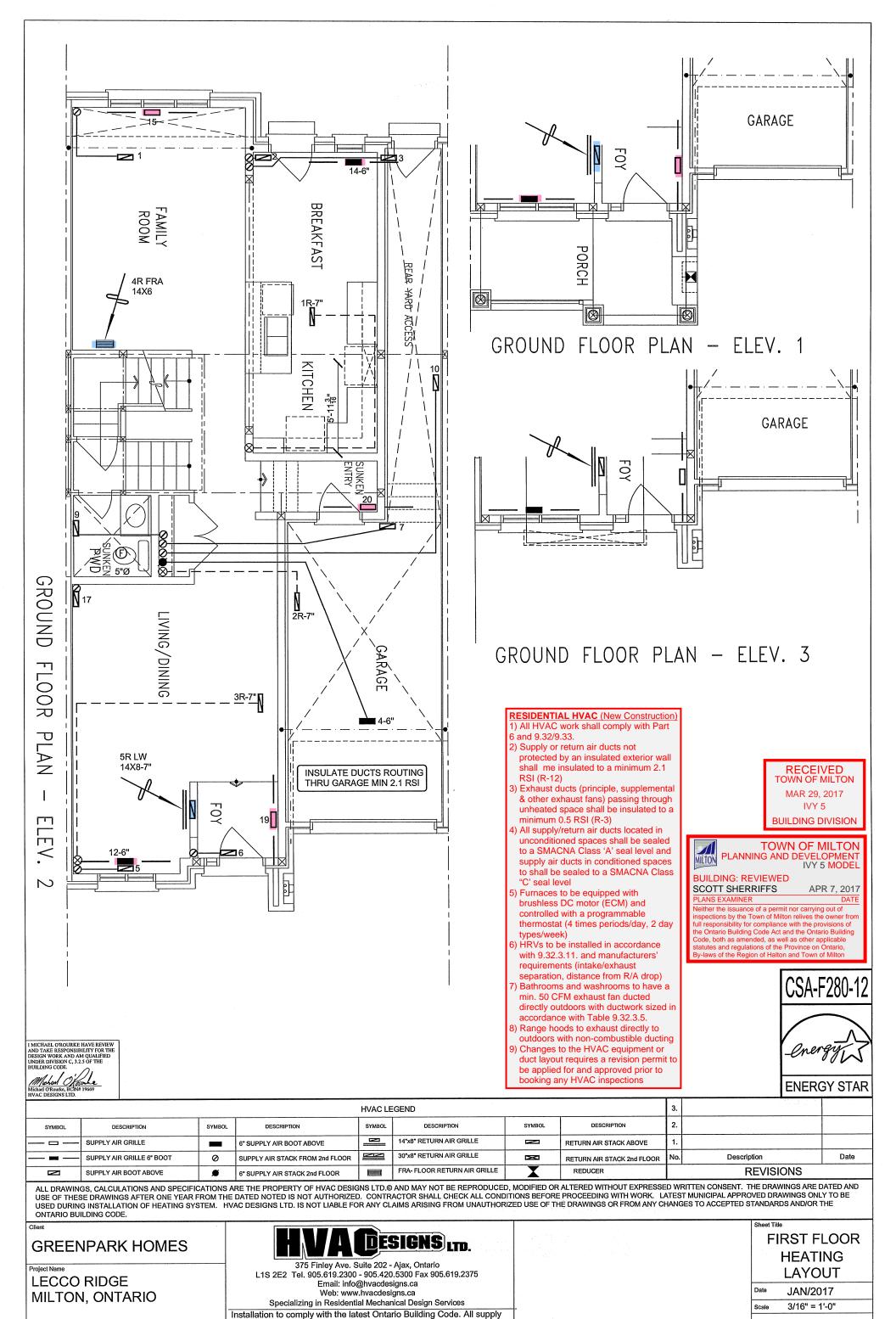
Supplemental tool for CAN/CSA-F280

Weather Sta	tion De	script	ion		
Province:	Onta	rio			
Region:	Milto	n			
Weather Station Location:	Oper	flat te	rrain,	grass	
Anemometer height (m):	10				
Local	Shieldir	g			
Building Site:	Subu	rban, f	orest	***************************************	
Walls:	Heav	У			
Flue:	Heav	У			
Highest Ceiling Height (m):	6.58				
Building C	onfigur	ation			
Туре:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	774.0	)			
Air Leakag	e/Venti	lation	1		
Air Tightness Type:	Ener	gy Star	Attach	ed (3.0	) ACH)
Custom BDT Data:	ELA (	9 10 Pa	₹.		867.0 cm <sup>2</sup>
	3.00				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	otal Sup	ply		Total Exhaust
		40.6			40.6
Flu	e Size		,		
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Inf	iltration	Rate	:S		
Heating Air Leakage Rate (ACH/H	l):	C	.26	5	
Cooling Air Leakage Rate (ACH/H	<b>)</b> :	C	.08	9	

**TYPE:** IVY 5 **LO#** 71716

RECEIVED TOWN OF MILTON MAR 29, 2017 IVY 5 BUILDING DIVISION





branch outlets shall be equipped with a manual balancing damper.

adequately insulated and be gas-proofed.

2027 sqft

IVY 5

Ductwork which passes through the garage or unheated spaces shall be

BCIN# 19669

71716

LO#

