

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 VAUGHAN (WOODBIDGE)	Postal code	Plan number/ other description	
B. Individual who reviews and takes responsibility for design activities			
Name MICHAEL O'ROURKE		Firm HVAC DESIGNS LTD.	
Street address 375 FINLEY AVE		Unit no. 202	Lot/con. N/A
Municipality AJAX	Postal code L1S 2E2	Province ONTARIO	E-mail info@hvacdsgns.ca
Telephone number (905) 619-2300	Fax number (905) 619-2375	Cell number ()	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1 OF Division C]			
☐ House ☐ Small Buildings ☐ Large Buildings ☐ Complex Buildings ☒ HVAC – House ☐ Building Services ☐ Detection, Lighting and Power ☐ Fire Protection ☐ Building Structural ☐ Plumbing – House ☐ Plumbing – All Buildings ☐ On-site Sewage Systems			
Description of designer's work HEAT LOSS / GAIN CALCULATIONS DUCT SIZING RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY RESIDENTIAL SYSTEM DESIGN per CSA-F280-12		Model: 5002 - THE ROSEVIEW Project: PINE VALLEY & TESTON	
D. Declaration of Designer			
I <u>MICHAEL O'ROURKE</u> (print name)		declare that (choose one as appropriate):	
☐ 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: <u>19669</u> Basis for exemption from registration and qualification: <u>O.B.C SENTENCE 3.2.4.1 (4)</u>			
☐ 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.			
January 23, 2018		 Signature of Designer	
Date			

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.

Application for a Permit Construct or Demolish – Effective January 1, 2015

SITE NAME: PINE VALLEY & TESTON
BUILDER: GOLD PARK HOMES
TYPE: 5002 - THE ROSEVIEW
DATE: Jan-18
LO# 77473
GFA: 3764
WINTER NATURAL AIR CHANGE RATE 0.330
HEAT LOSS AT °F. 76
HEAT GAIN AT °F. 15
CSA-F280-12
SB-12 PACKAGE A1

ROOM USE	EXP. WALL CLG. HT.	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	ENS-4	LOSS GAIN
GRS.WALL AREA	500	270	351	90	432	432	144	36	0	
GLAZING	18	333	298	0	0	0	0	0	0	
NORTH	21.3	16.5	0	0	0	0	0	0	0	
EAST	21.3	42.1	0	0	0	0	0	0	0	
SOUTH	21.3	25.5	0	0	0	0	0	0	0	
WEST	21.3	42.1	0	0	0	0	0	0	0	
SKYL.T.	37.2	102.5	0	0	0	0	0	0	0	
DOORS	25.2	4.9	0	0	0	0	0	0	0	
NET EXPOSED WALL	4.5	0.9	442	1973	384	224	1000	195	0	
NET EXPOSED BMT WALL ABOVE GR	3.6	0.7	0	0	0	0	0	0	0	
EXPOSED CLG	1.3	0.6	437	561	272	224	287	139	60	77
NO ATTIC EXPOSED CLG	2.7	1.3	0	0	0	0	0	0	0	
EXPOSED FLOOR	2.6	0.5	0	0	0	0	0	0	0	
BASEMENT/CRAWL HEAT LOSS	0	0	0	0	0	0	0	0	0	
SLAB ON GRADE HEAT LOSS	0	0	0	0	0	0	0	0	0	
SUBTOTAL HT LOSS	3768	2638	1938	607	178	3561	1468	608	77	
SUB TOTAL HT GAIN	0.20	0.27	0.20	0.27	0.20	0.27	0.20	0.27	0.20	0.27
LEVEL FACTOR / MULTIPLIER	1026	617	169	165	15	1013	400	165	21	
AIR CHANGE HEAT LOSS	0	230	0	0	0	310	0	77	0	
AIR CHANGE HEAT GAIN	0	0	0	0	0	457	0	66	0	
DUCT LOSS	2	480	0	0	1	240	1	0	0	
HEAT GAIN PEOPLE	240	463	463	0	0	463	1868	463	463	
HEAT GAIN APPLIANCES/LIGHTS	4793	4953	2883	772	251	5205	5115	851	98	
TOTAL HT LOSS BTU/H										
TOTAL HT GAIN x 1.3 BTU/H										

ROOM USE	EXP. WALL CLG. HT.	LIBR	DIN	KIT	LIV	LAUN	FOY	MUD	BAS	LOSS GAIN
GRS.WALL AREA	370	370	290	630	120	83	310	324	1176	
GLAZING	0	0	0	0	0	0	0	0	0	
NORTH	21.3	16.5	0	0	0	0	0	0	0	
EAST	21.3	42.1	0	0	0	0	0	0	0	
SOUTH	21.3	25.5	0	0	0	0	0	0	0	
WEST	21.3	42.1	0	0	0	0	0	0	0	
SKYL.T.	37.2	102.5	0	0	0	0	0	0	0	
DOORS	26.2	4.9	0	0	0	0	0	0	0	
NET EXPOSED WALL	4.5	0.9	310	1383	269	236	1053	205	528	2356
NET EXPOSED BMT WALL ABOVE GR	3.6	0.7	0	0	0	0	0	0	0	
EXPOSED CLG	1.3	0.6	0	0	0	0	0	0	0	
NO ATTIC EXPOSED CLG	2.7	1.3	0	0	0	0	0	0	0	
EXPOSED FLOOR	2.6	0.5	0	0	0	0	0	0	0	
BASEMENT/CRAWL HEAT LOSS	0	0	0	0	0	0	0	0	0	
SLAB ON GRADE HEAT LOSS	0	0	0	0	0	0	0	0	0	
SUBTOTAL HT LOSS	2660	2596	2202	4527	939	594	2589	1862	9710	
SUB TOTAL HT GAIN	0.30	0.46	0.30	0.46	0.30	0.27	0.30	0.46	0.50	1.18
LEVEL FACTOR / MULTIPLIER	1232	1232	1020	2087	435	162	1189	862	11410	
AIR CHANGE HEAT LOSS	0	226	0	0	0	0	0	0	0	
AIR CHANGE HEAT GAIN	0	0	0	0	0	0	0	0	0	
DUCT LOSS	0	0	0	0	0	0	0	0	0	
HEAT GAIN PEOPLE	240	463	463	0	0	0	0	0	0	
HEAT GAIN APPLIANCES/LIGHTS	3892	4270	3222	6624	1374	756	3788	2724	21119	
TOTAL HT LOSS BTU/H										
TOTAL HT GAIN x 1.3 BTU/H										

TOTAL HEAT GAIN BTU/H: 48094 TONS: 4.01 LOSS DUE TO VENTILATION LOAD BTU/H: 3181 STRUCTURAL HEAT LOSS: 68088 TOTAL COMBINED HEAT LOSS BTU/H: 68268

Michael O'Rourke

SITE NAME: PINE VALLEY & TESTON
BUILDER: GOLD PARK HOMES

TYPE: 5002 - THE ROSEVIEW DATE: Jan-18
furnace pressure 0.6
a/c coil pressure 0.2
available pressure for s/a & r/a 0.35
plenum pressure s/a 0.18
max s/a dir press. loss 0.02
min adjusted pressure s/a 0.16

GFA: 3764 LO# 77473

HEATING CFM	1525	COOLING CFM	1525			
TOTAL HEAT LOSS	65,088	TOTAL HEAT GAIN	47,475			
AIR FLOW RATE CFM	23.43	AIR FLOW RATE CFM	32.12			
RUN COUNT		4th	3rd	2nd	1st	Bas
S/A		0	0	0	14	10
R/A		0	0	0	5	3
						1

EL296UH090XE48C

FAN SPEED

LOW

MEDIUM

HIGH

LENNOX

90

FOY

1105

1255

EL296UH090XE48C

FAN SPEED

LOW

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EL296UH090XE48C

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TYPE: 5002 - THE ROSEVIEW
SITE NAME: PINE VALLEY & TESTON

LO # 77473

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		9.32.3.2
☒	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	<u>2</u> @ 21.2 cfm	<u>42.4</u> cfm
Other Bedrooms	<u>3</u> @ 10.6 cfm	<u>31.8</u> cfm
Kitchen & Bathrooms	<u>5</u> @ 10.6 cfm	<u>53</u> cfm
Other Rooms	<u>7</u> @ 10.6 cfm	<u>74.2</u> cfm
Table 9.32.3.A.	TOTAL	<u>201.4</u> 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	79.5	cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	<u>201.4</u>	cfm
Less Principal Ventil. Capacity	<u>155</u>	cfm
Required Supplemental Capacity	<u>46.4</u>	cfm

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANEE 65H	Location: BSMT
<u>155.0</u> cfm	<u>3.0</u> sones
☒	HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION	
CFM	ΔT °F
155.0 CFM	76 F
X	X
FACTOR	% LOSS
1.08	X
	0.25

SUPPLEMENTAL FANS		NUTONE	
Location	Model	cfm	HVI
ENS	QTXEN050C	50	☒
BATH	QTXEN050C	50	☒
ENS-4	QTXEN050C	50	☒

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 65H		
<u>155</u> cfm high	<u>64</u> cfm low	
<u>75</u> % Sensible Efficiency	☒	HVI Approved
@ 32 deg F (0 deg C)		

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

BUILDER:		GOLD PARK HOMES
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:	January-18

CSA F280-12 Residential Heat Loss and Heat Gain Calculations																																									
Formula Sheet (For Air Leakage / Ventilation Calculation)																																									
LO#: 77473		Model: 5002 - THE ROSEVIEW		Builder: GOLD PARK HOMES		Date: 2018-01-23																																			
Volume Calculation																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>House Volume Level</th> <th>Floor Area (ft²)</th> <th>Floor Height (ft)</th> <th>Volume (ft³)</th> </tr> <tr> <td>Bsmt</td> <td>1700</td> <td>9</td> <td>15300</td> </tr> <tr> <td>First</td> <td>1700</td> <td>10</td> <td>17000</td> </tr> <tr> <td>Second</td> <td>2064</td> <td>9</td> <td>18576</td> </tr> <tr> <td>Third</td> <td>0</td> <td>9</td> <td>0</td> </tr> <tr> <td>Fourth</td> <td>0</td> <td>9</td> <td>0</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total:</td> <td></td> <td>50,876.0 ft³</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total:</td> <td></td> <td>1440.6 m³</td> </tr> </table>										House Volume Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)	Bsmt	1700	9	15300	First	1700	10	17000	Second	2064	9	18576	Third	0	9	0	Fourth	0	9	0	Total:			50,876.0 ft³	Total:			1440.6 m³
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Air Change & Delta T Data																																									
				WINTER NATURAL AIR CHANGE RATE		0.330																																			
				SUMMER NATURAL AIR CHANGE RATE		0.117																																			
Design Temperature Difference																																									
				Tin °C		Tout °C		ΔT °C																																	
				22		-20		42																																	
				23		31		8																																	
				Winter DTDh				ΔT °F																																	
								76																																	
				Summer DTDc				15																																	
6.2.6 Sensible Gain due to Air Leakage																																									
$HG_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$																																									
0.330		x		400.18		x		8 °C		x		1.2		=		463 W																									
										=				=		1578 Btu/h																									
6.2.7 Sensible heat Gain due to Ventilation																																									
$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$																																									
155 CFM		x		76 °F		x		1.08		x		0.25		=		619 Btu/h																									
5.2.3.3 Calculation of Air Change Heat Loss for Each Room (Floor Multiplier Section)																																									
$HL_{qirr} = Level Factor \times HL_{qirbv} \times \{(HL_{qgcr} + HL_{bgcr}) \div (HL_{qgclvl} + HL_{bgclvl})\}$																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Level</th> <th>Level Factor (LF)</th> <th>HLairbv Air Leakage + Ventilation Heat Loss (Btu/h)</th> <th>Level Conductive Heat Loss: (HLclvl)</th> <th>Air Leakage Heat Loss Multiplier (LF x HLairbv / HLclvl)</th> </tr> <tr> <td>1</td> <td>0.5</td> <td rowspan="5">22,820</td> <td>9,710</td> <td>1.175</td> </tr> <tr> <td>2</td> <td>0.3</td> <td>14,779</td> <td>0.463</td> </tr> <tr> <td>3</td> <td>0.2</td> <td>16,764</td> <td>0.272</td> </tr> <tr> <td>4</td> <td>0</td> <td>0</td> <td>0.000</td> </tr> <tr> <td>5</td> <td>0</td> <td>0</td> <td>0.000</td> </tr> </table>										Level	Level Factor (LF)	HLairbv Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HLclvl)	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLclvl)	1	0.5	22,820	9,710	1.175	2	0.3	14,779	0.463	3	0.2	16,764	0.272	4	0	0	0.000	5	0	0	0.000						
Level	Level Factor (LF)	HLairbv Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HLclvl)	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLclvl)																																					
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3	0.2		16,764	0.272																																					
4	0		0	0.000																																					
5	0		0	0.000																																					
*HLairbv = Air leakage heat loss + ventilation heat loss *For a balanced or supply only ventilation system HLairbv = 0																																									

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** 5002 - THE ROSEVIEW**BUILDER:** GOLD PARK HOMES**SFQT:** 3764**LO#** 77473**SITE:** PINE VALLEY & TESTON**DESIGN ASSUMPTIONS**

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-4	OUTDOOR DESIGN TEMP.	88
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	73

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):	50876.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 56.0 ft	WIDTH: 42.0 ft	EXPOSED PERIMETER:	196.0 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	29.80
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	-

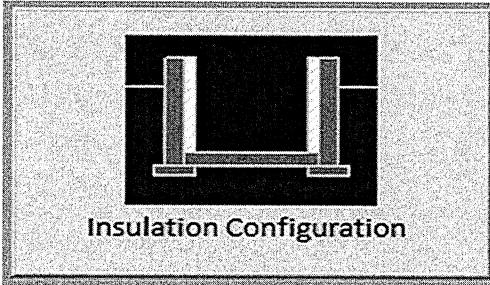
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Vaughan (Woodbridge)	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	17.1	 Insulation Configuration
Floor Width (m):	12.8	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	
Window Area (m ²):	1.5	
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):	1977	

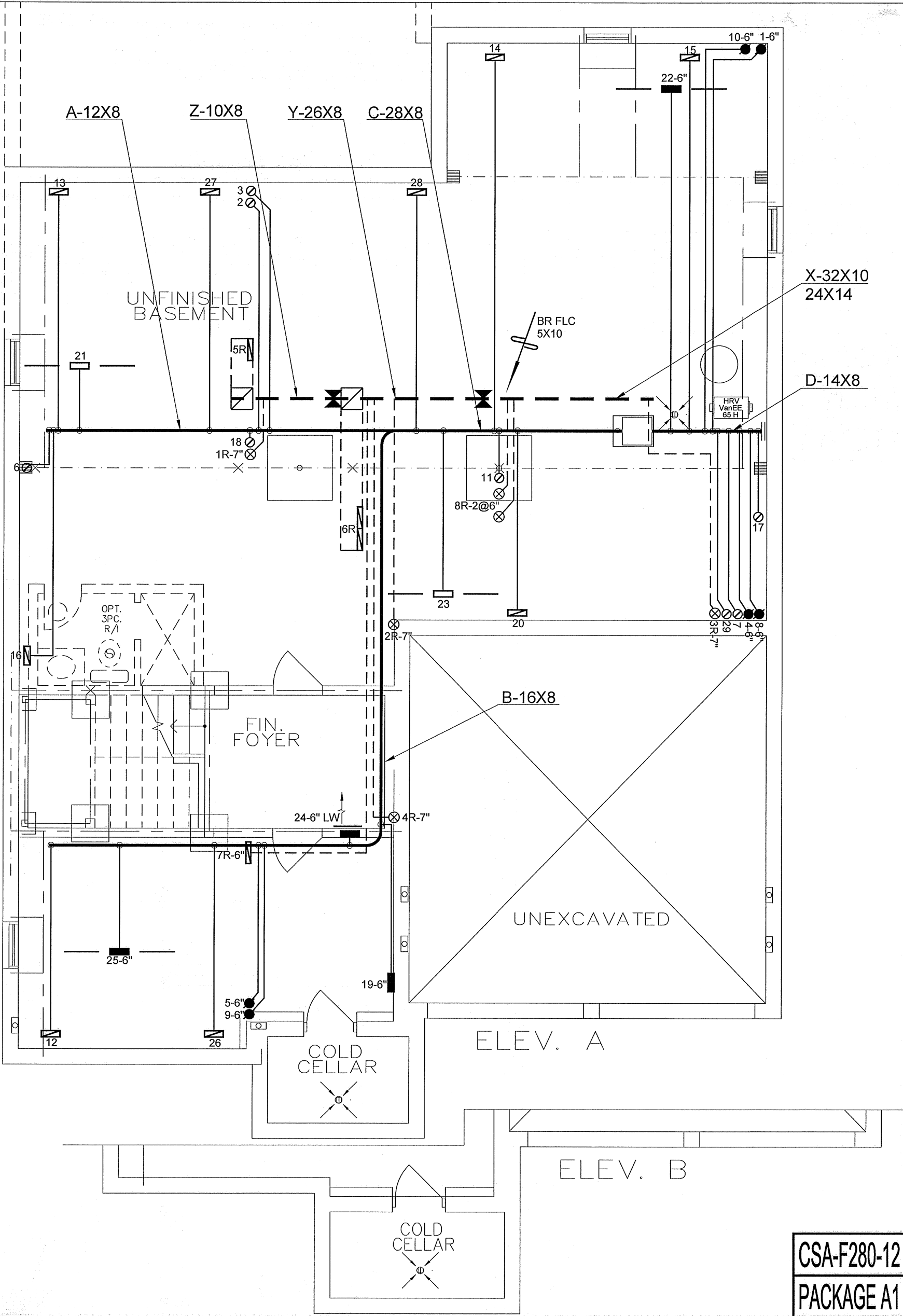
TYPE: 5002 - THE ROSEVIEW
LO# 77473

Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Vaughan (Woodbridge)			
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):	1440.6			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	1920.4 cm ²		
	3.57	ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust		
	73.2	73.2		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):	0.330			
Cooling Air Leakage Rate (ACH/H):	0.117			

TYPE: 5002 - THE ROSEVIEW
LO# 77473



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.

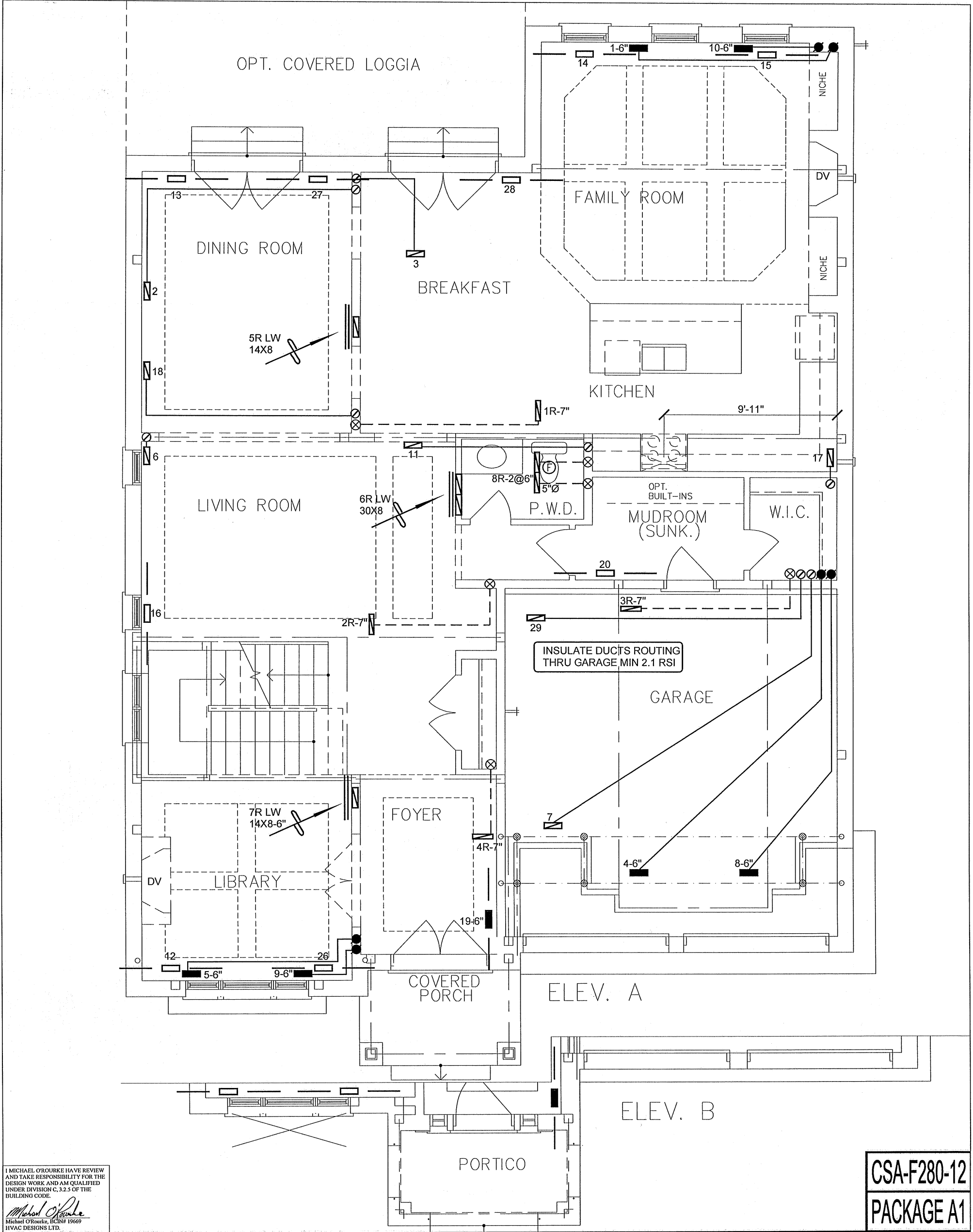
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
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CSA-F280-12
PACKAGE A1

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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Client		HVACDESIGNS LTD. 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.	HEAT LOSS 68268 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS				Sheet Title	
GOLD PARK HOMES			MAKE	LENNOX	3RD FLOOR				BASEMENT HEATING LAYOUT	
Project Name			MODEL	EL296UH090XE48C	2ND FLOOR	14	5	4		
PINE VALLEY & TESTON VAUGHAN, ONTARIO			INPUT	88 MBTU/H	1ST FLOOR	10	3	2	Date JAN/2018	
5002 - ROSEVIEW 3764 sqft			OUTPUT	85 MBTU/H	BASEMENT	5	1	0	Scale 3/16" = 1'-0"	
		COOLING	4.0 TONS	ALL S/A DIFFUSERS 4 "x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5"Ø UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A				BCIN# 19669		
		FAN SPEED	1525 cfm @ 0.6" w.c.					LO#	77473	



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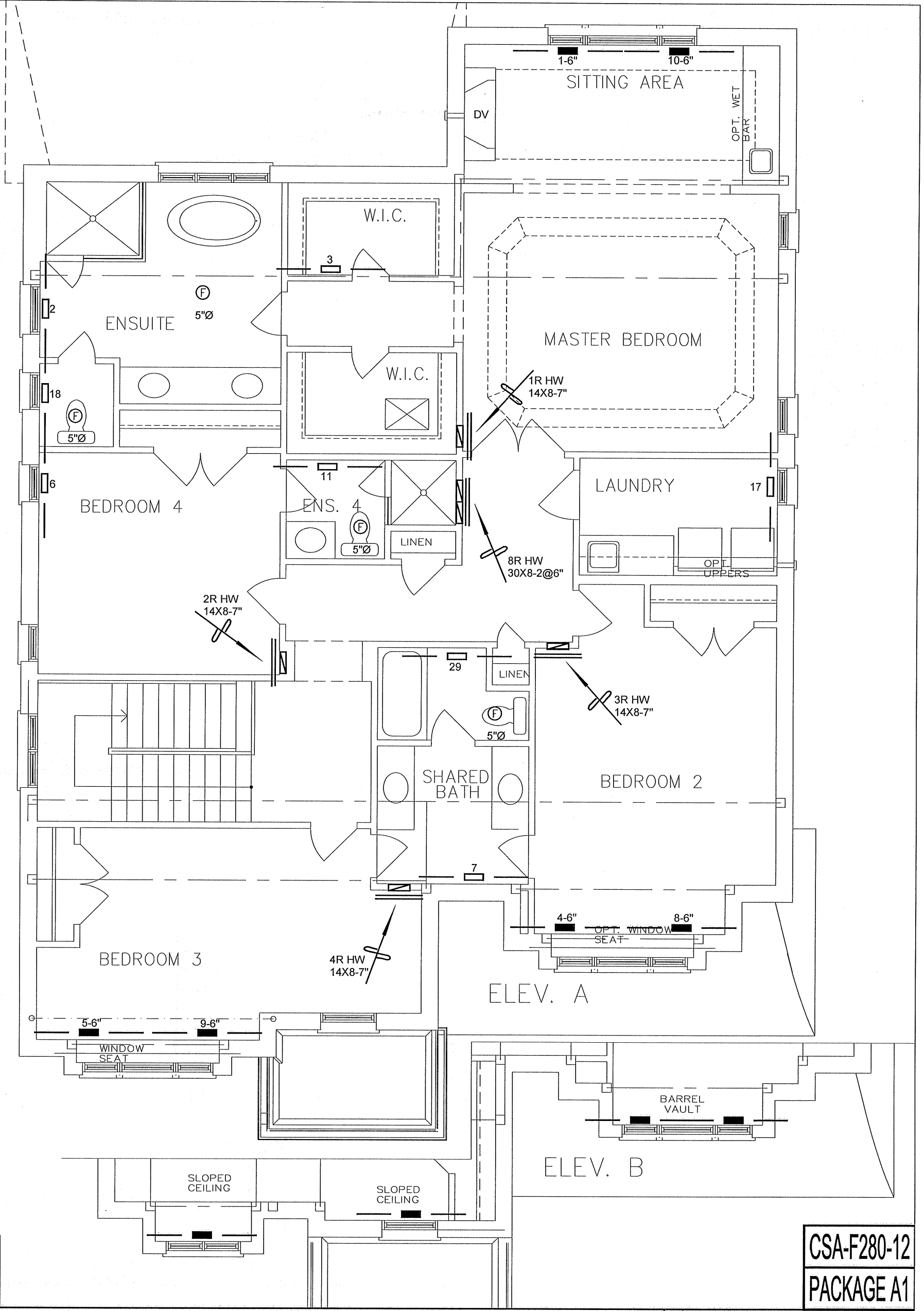
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CSA-F280-12
PACKAGE A1

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

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GOLD PARK HOMES		FIRST FLOOR HEATING LAYOUT	
Project Name		Date	JAN/2018
PINE VALLEY & TESTON VAUGHAN, ONTARIO		Scale	3/16" = 1'-0"
		BCIN# 19669	
5002 - ROSEVIEW 3764 sqft		LO#	77473



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CSA-F280-12
PACKAGE A1

HVAC LEGEND							3.		
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GOLD PARK HOMES			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	JAN/2018
PINE VALLEY & TESTON VAUGHAN, ONTARIO			Scale	3/16" = 1'-0"
5002 - ROSEVIEW 3764 sqft			BCIN# 19669	
		LO#	77473	