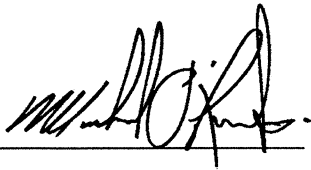


Schedule 1: Designer Information

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	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@hvacdesigns.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]																
<table style="width: 100%; border: none;"> <tr> <td>☐ House</td> <td>☒ HVAC – House</td> <td>☐ Building Structural</td> </tr> <tr> <td>☐ Small Buildings</td> <td>☐ Building Services</td> <td>☐ Plumbing – House</td> </tr> <tr> <td>☐ Large Buildings</td> <td>☐ Detection, Lighting and Power</td> <td>☐ Plumbing – All Buildings</td> </tr> <tr> <td>☐ Complex Buildings</td> <td>☐ Fire Protection</td> <td>☐ On-site Sewage Systems</td> </tr> </table>					☐ 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
☐ 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 HEAT LOSS / GAIN CALCULATIONS DUCT SIZING RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY RESIDENTIAL SYSTEM DESIGN per CSA-F280-12		Model: 42-1 Project: KLEINBURG GLEN														
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: <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: - The information contained in this schedule is true to the best of my knowledge. - I have submitted this application with the knowledge and consent of the firm.																
<u>January 26, 2016</u> 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: KLEINBURG GLEN
BUILDER: GOLD PARK HOMES
TYPE: 42-1
DATE: Jan-16
LO# 68864
GFA: 2983
WINTER NATURAL AIR CHANGE RATE 0.322
HEAT LOSS AT °F: 76
CSA-F280-12
SB-12 PACKAGE J

ROOM USE EXP. WALL CLG. HT.	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	WIC-2	ENS-2	DEN
GRS.WALL AREA GLAZING	297	261	54	117	144	108	171	126	153	180
NORTH	0	0	0	0	0	0	0	0	0	0
EAST	0	0	0	0	0	0	0	0	0	0
SOUTH	0	0	0	0	0	0	0	0	0	0
WEST	0	0	0	0	0	0	0	0	0	0
SKYL.T.	0	0	0	0	0	0	0	0	0	0
DOORS	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	257	261	54	117	144	108	171	126	153	180
NET EXPOSED BSMT WALL ABOVE GR	6.3	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.5	0	0	0	0	0	0	0	0	0
NO ATTIC EXPOSED CLG	347	264	96	143	217	109	180	274	137	216
BASEMENT/CRAWL HEAT LOSS	0	0	0	0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS	0	0	0	0	0	0	0	0	0	0
SUBTOTAL HT LOSS	2173	1879	332	931	1625	1197	1186	778	1293	931
SUB TOTAL HT GAIN	0.20	0.31	0.20	0.31	0.20	0.31	0.20	0.31	0.20	0.31
LEVEL FACTOR / MULTIPLIER	581	589	104	292	509	375	372	244	405	434
AIR CHANGE HEAT LOSS	118	109	8	30	80	45	156	0	43	26
AIR CHANGE HEAT GAIN	571	0	0	0	213	157	72	0	0	0
DUCT LOSS	154	0	0	0	224	169	0	0	0	0
HEAT GAIN PEOPLE	240	0	0	1	240	1	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS	740	0	0	740	740	740	0	0	0	740
TOTAL HT LOSS BTU/H	3425	2469	437	1223	2348	1730	1714	1023	1698	1365
TOTAL HT GAIN x 1.3 BTU/H	4214	2247	156	1891	3204	2419	1027	809	881	1492

ROOM USE EXP. WALL CLG. HT.	DIN	KTGR	LAUN	FOY	PWD	BAS
GRS.WALL AREA GLAZING	110	710	231	520	120	1044
NORTH	0	0	0	0	0	6
EAST	0	0	0	0	0	145
SOUTH	18	434	7	578	169	3
WEST	0	0	0	0	0	72
SKYL.T.	0	0	0	0	0	145
DOORS	0	0	0	0	0	258
NET EXPOSED WALL	92	318	67	456	113	20
NET EXPOSED BSMT WALL ABOVE GR	6.3	0	0	0	0	0
EXPOSED CLG	1.5	0	0	0	0	522
NO ATTIC EXPOSED CLG	2.5	0	0	0	0	3306
BASEMENT/CRAWL HEAT LOSS	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS	0	0	0	0	0	0
SUBTOTAL HT LOSS	751	4629	1378	3259	559	7358
SUB TOTAL HT GAIN	0.30	0.47	0.30	0.47	0.30	0.50
LEVEL FACTOR / MULTIPLIER	350	2156	642	1518	260	8932
AIR CHANGE HEAT LOSS	37	315	30	110	26	84
AIR CHANGE HEAT GAIN	0	0	0	0	0	0
DUCT LOSS	0	0	0	0	0	0
HEAT GAIN PEOPLE	240	0	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS	740	740	740	0	0	0
TOTAL HT LOSS BTU/H	1101	6785	2020	4777	819	20462
TOTAL HT GAIN x 1.3 BTU/H	1714	7426	1572	2255	532	1727

TOTAL HEAT GAIN BTU/H: 34123 TONS: 2.84 LOSS DUE TO VENTILATION LOAD BTU/H: 2651

STRUCTURAL HEAT LOSS: 53395 TOTAL COMBINED HEAT LOSS BTU/H: 56047

SITE NAME: KLEINBURG GLEN
BUILDER: GOLD PARK HOMES

DATE: Jan-16 GFA: 2983 LO# 66864

TYPE: 42-1

furnace pressure 0.6

furnace filter 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 diff press. loss 0.02

min adjusted pressure s/a 0.16

HEATING CFM 1100 COOLING CFM 1100
TOTAL HEAT LOSS 53,395 TOTAL HEAT GAIN 33,565
AIR FLOW RATE CFM 20.6 AIR FLOW RATE CFM 32.77

LENNOX
EL195UH070XE38B 70
FAN SPEED
LOW 0
MEDIUM 995
HIGH 1100

AFUE = 95.0 %
INPUT (BTU/H) = 66,000
OUTPUT (BTU/H) = 63,000
DESIGN CFM = 1100
CFM @ 8" E.S.P.

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	11	8	4
R/A	0	0	4	2	1

All S/A diffusers 4"x10" unless noted otherwise on layout.

All S/A runs 5'Ø unless noted otherwise on layout.

RUN #	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	19	20	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	WIC-2	ENS	MBR	ENS-2	DIN	KT/GR	KT/GR	KT/GR	LAUN	FOY	PWD	DEN	BAS
RM LOSS MBH	1.71	1.23	0.44	1.22	2.35	1.73	1.71	1.02	1.23	1.71	1.70	1.10	2.26	2.26	2.26	2.02	4.78	0.82	1.37	5.12
CFM PER RUN HEAT	35	25	9	25	48	36	35	21	25	35	35	23	47	47	47	42	98	17	28	105
RM GAIN MBH	2.11	1.12	0.16	1.89	3.20	2.42	1.03	0.81	1.12	2.11	0.88	1.71	2.48	2.48	2.48	1.57	2.26	0.53	1.49	0.43
CFM PER RUN COOLING	69	37	5	62	105	79	34	27	37	69	29	56	81	81	81	51	74	17	49	14
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.17	0.16	0.17	0.17	0.16
EQUIVALENT LENGTH	46	55	23	38	31	28	27	36	66	41	39	23	41	31	40	24	28	33	20	32
TOTAL EFFECTIVE LENGTH	186	255	143	198	151	198	177	216	206	201	209	123	181	161	130	174	108	133	150	132
ADJUSTED PRESSURE	0.09	0.07	0.12	0.09	0.11	0.09	0.1	0.08	0.08	0.09	0.08	0.14	0.09	0.1	0.12	0.1	0.15	0.13	0.11	0.12
ROUND DUCT SIZE	5	4	4	5	6	5	4	4	4	5	4	4	5	5	5	4	5	4	4	5
HEATING VELOCITY (ft/min)	257	287	103	184	245	264	402	241	287	257	402	264	345	345	345	482	720	195	321	771
COOLING VELOCITY (ft/min)	507	424	57	455	535	580	390	310	424	507	333	642	595	595	595	585	543	195	562	103
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10
TRUNK	A	A	B	B	C	B	B	C	A	A	C	B	A	A	A	B	C	C	B	B

RUN #	25	26	27
ROOM NAME	BAS	BAS	BAS
RM LOSS MBH	5.12	5.12	5.12
CFM PER RUN HEAT	105	105	105
RM GAIN MBH	0.43	0.43	0.43
CFM PER RUN COOLING	14	14	14
ADJUSTED PRESSURE	0.16	0.16	0.16
EQUIVALENT LENGTH	32	14	26
TOTAL EFFECTIVE LENGTH	172	144	136
ADJUSTED PRESSURE	0.09	0.11	0.12
ROUND DUCT SIZE	6	6	5
HEATING VELOCITY (ft/min)	535	535	771
COOLING VELOCITY (ft/min)	71	71	103
OUTLET GRILL SIZE	4X10	4X10	3X10
TRUNK	A	C	C

SUPPLY AIR TRUNK SIZE

TRUNK	CFM	VELOCITY (ft/min)	RECT DUCT	ROUND DUCT	STATIC PRESS.	TRUNK CFM	VELOCITY (ft/min)	RECT DUCT	ROUND DUCT	STATIC PRESS.	TRUNK CFM	VELOCITY (ft/min)	RECT DUCT	ROUND DUCT	STATIC PRESS.
TRUNK A	366	0.07	10	12	0.07	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK B	669	0.07	12.5	18	0.07	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK C	429	0.08	10.2	12	0.08	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK D	0	0.00	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK E	0	0.00	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK F	0	0.00	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0.00

RETURN AIR TRUNK SIZE

TRUNK	CFM	VELOCITY (ft/min)	RECT DUCT	ROUND DUCT	STATIC PRESS.	TRUNK CFM	VELOCITY (ft/min)	RECT DUCT	ROUND DUCT	STATIC PRESS.
TRUNK G	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK H	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK I	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK J	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK K	0	0	0	0	0.00	0	0	0	0	0.00
TRUNK L	0	0	0	0	0.00	0	0	0	0	0.00

RETURN AIR

AIR VOLUME	165	195	95	105	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	0.15
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	0.15	0.15	0.15	0.15	0.15
EQUIVALENT LENGTH	42	28	33	32	24	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL EFFECTIVE LENGTH	185	135	165	165	190	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADJUSTED PRESSURE	0.07	0.09	0.07	0.08	0.07	0.09	0.09	0.07	0.08	0.07	0.09	0.09	0.07	0.08	0.07	0.09	0.09	0.07	0.08	0.07	0.09
ROUND DUCT SIZE	7.4	7.4	6	6	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
INLET GRILL SIZE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
INLET GRILL SIZE	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

TYPE: 42-1
SITE NAME: KLEINBURG GLEN

LO # 66864

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	<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>5</u> @ 10.6 cfm	<u>53.0</u> cfm
Table 9.32.3.A.	TOTAL	<u>180.2</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
More than 5 - Part 6	TOTAL	<u>79.5</u> cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	<u>180.2</u>	cfm
Less Principal Ventil. Capacity	<u>95</u>	cfm
Required Supplemental Capacity	<u>85.2</u>	cfm

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANEE 50H	Location: BSMT
<u>95.0</u> cfm	<u>3.0</u> sones
☒ HVI Approved	

PRINCIPAL EXHAUST HEAT LOSS CALCULATION				
CFM	$\Delta T^{\circ}F$	FACTOR	% LOSS	
95.0 CFM	X 76 F	X 1.08	X	0.34

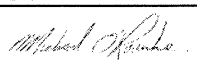
SUPPLEMENTAL FANS		NUTONE		
Location	Model	cfm	HVI	Sones
ENS	QTXEN050C	50	☒	0.3
BATH	QTXEN050C	50	☒	0.3
ENS-2	QTXEN050C	50	☒	0.3
PWD	QTXEN050C	50	☒	0.3

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 50H		
<u>95</u> cfm high	<u>48</u> cfm low	
<u>66</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:	
HRAI #	001820
Date:	January-16

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: 42-1	BUILDER: GOLD PARK HOMES
SFQT: 2983	LO# 66864
	SITE: KLEINBURG GLEN

DESIGN ASSUMPTIONS

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-4	OUTDOOR DESIGN TEMP.	88
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):	40797.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.35	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 54.0 ft	WIDTH: 33.0 ft	EXPOSED PERIMETER:	174.0 ft

2012 OBC - COMPLIANCE PACKAGE

Component	Compliance Package
	J
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	22
Basement Walls Minimum RSI (R)-Value	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
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10
Windows and Sliding Glass Doors Maximum U-Value	1.8
Skylights Maximum U-Value	2.8
Space Heating Equipment Minimum AFUE	0.94
HRV Minimum Efficiency	60%
Domestic Hot Water Heater Minimum EF	0.67

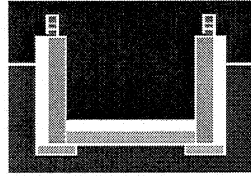
INDIVIDUAL BCIN: 19669

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):	16.5	 Insulation Configuration
Floor Width (m):	10.1	
Exposed Perimeter (m):	0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.8	
Window Area (m ²):	1.4	
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):	2156	

53.2

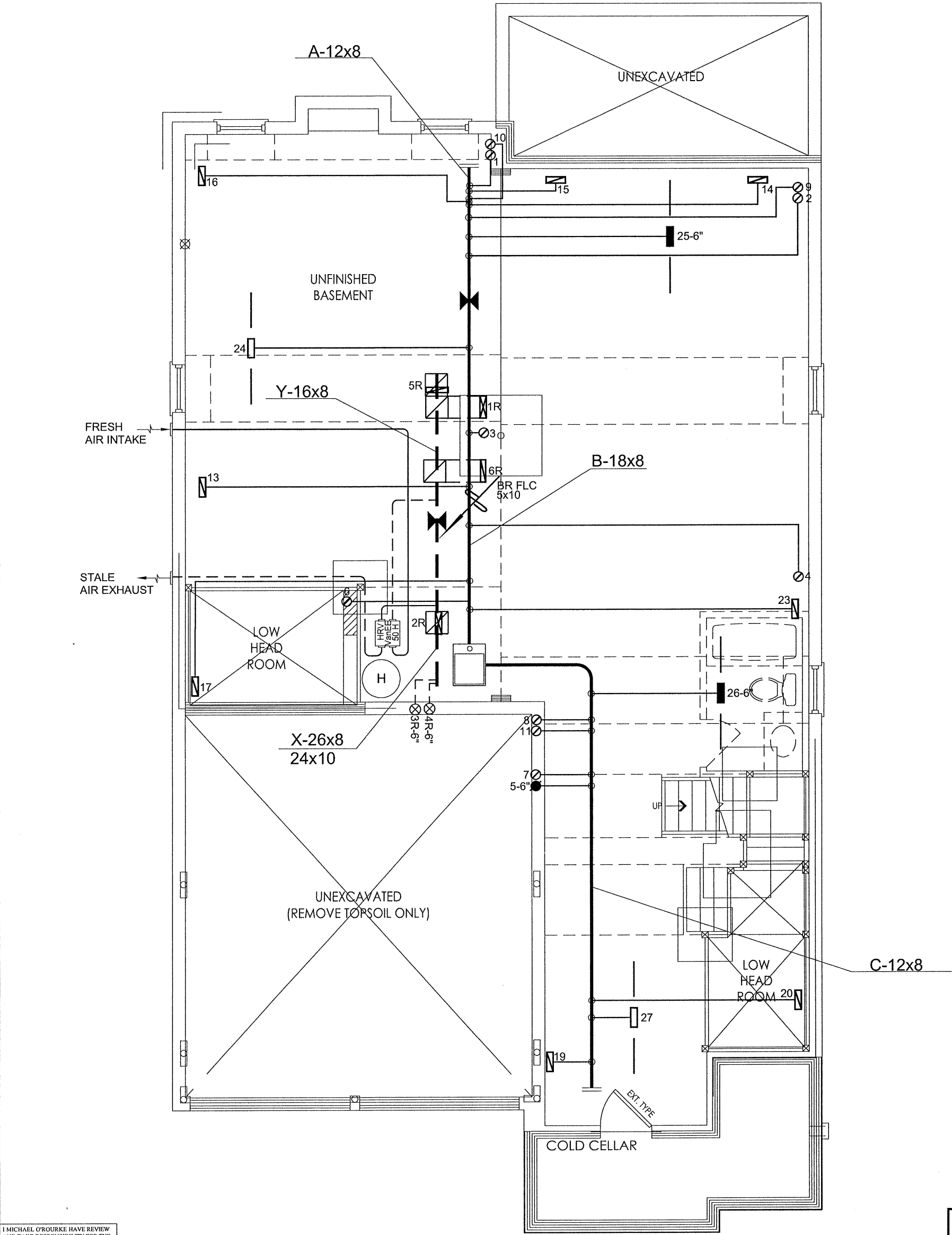
2.6 142.24

141.74

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):	1155.2		
Air Leakage/Ventilation			
Air Tightness Type:	Present (1961-) (ACH=3.57) ▼		
Custom BDT Data:	ELA @ 50 Pa ▼	716.42 cm ²	
	3.57	ACH @ 50 Pa	
Mechanical Ventilation (L/s):	Total Supply:	Total Exhaust:	
	0	0	
Flue Size			
Flue #:	#1	#2	#3
Diameter (mm):	0	0	0
Natural Infiltration Rates			
Heating Air Change Rate (ACH/H):		0.322	
Cooling Air Change Rate (ACH/H):		0.098	



BASEMENT FLOOR ELEV 'A'

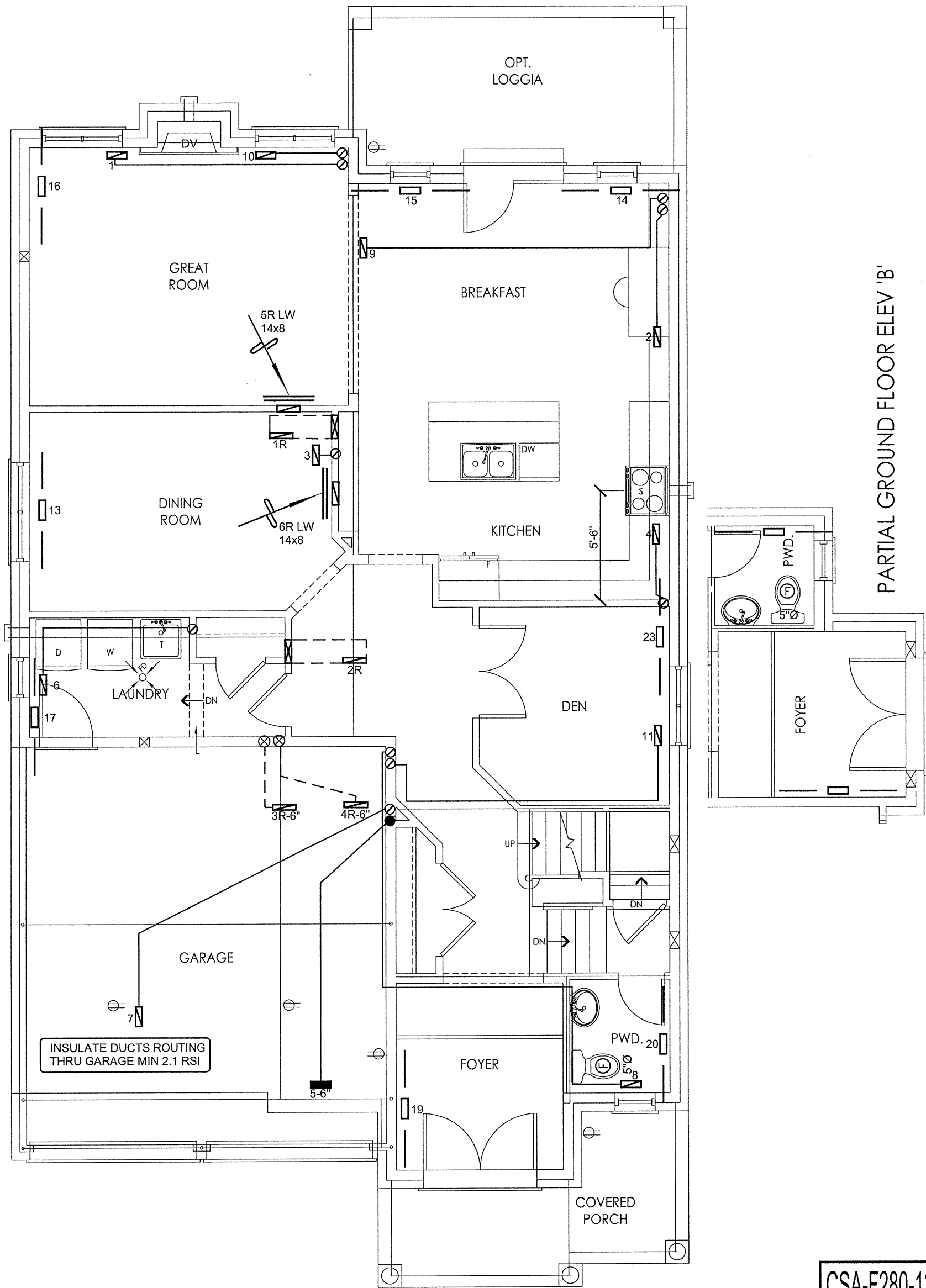
CSA-F280-12
PACKAGE J

I MICHAEL O'ROURKE HAVE REVIEW
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.	
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.	
	FLOOR SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	No.	
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS	
								Description	Date

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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 56047 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 KLEINBURG GLEN VAUGHAN, ONTARIO			MODEL EL195UH070XE36B-70	2ND FLOOR		11	4	4	
			INPUT 66 MBTU/H	1ST FLOOR		8	2	2	
42-1			OUTPUT 63 MBTU/H	BASEMENT		4	1	0	Date JAN/2016
2983 sqft		COOLING 3.0 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			Scale 3/16" = 1'-0"		BCIN# 19669	
		FAN SPEED 1100 cfm @ 0.6" w.c.				LO#		66864	



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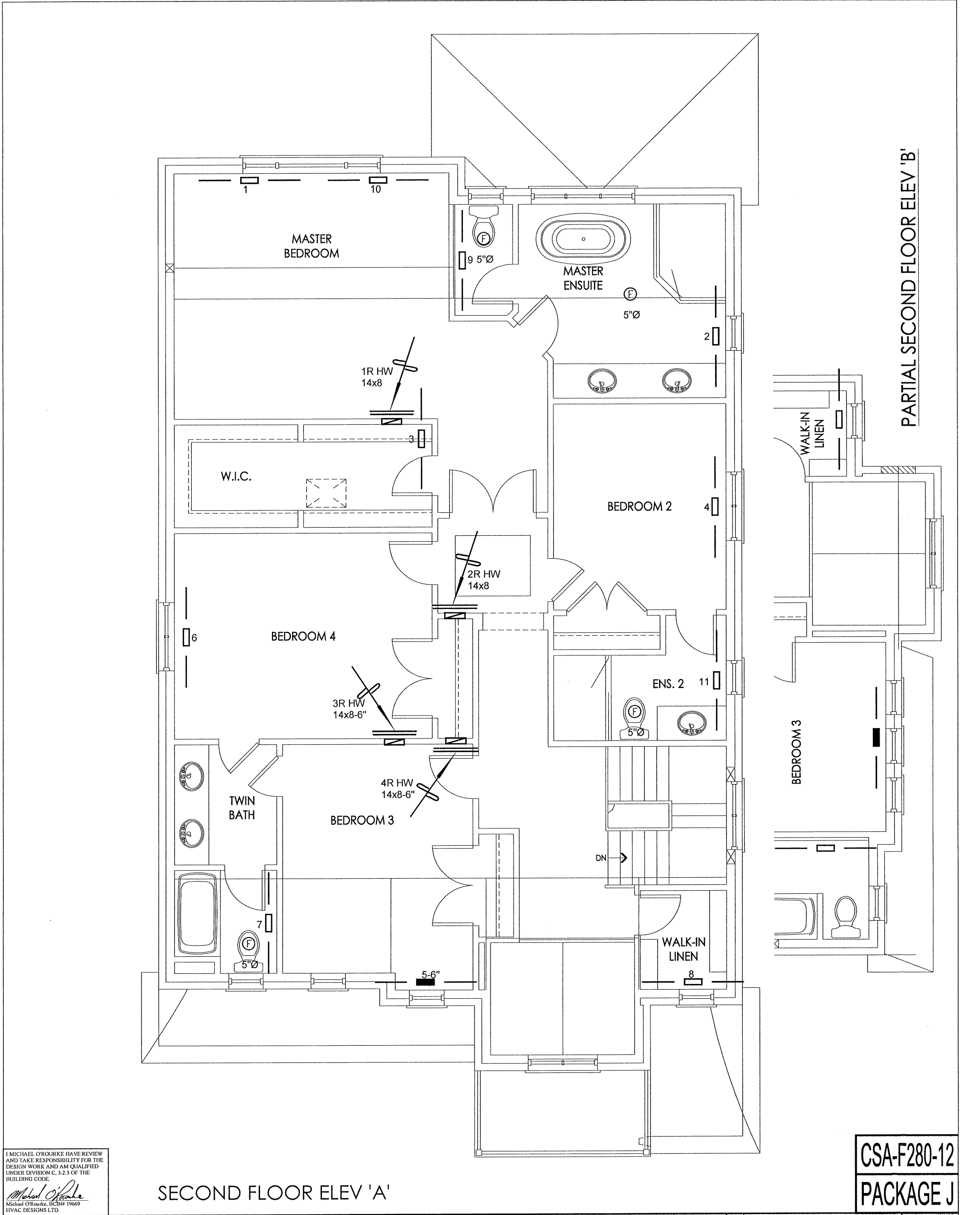
GROUND FLOOR ELEV 'A'

CSA-F280-12
PACKAGE J

HVAC LEGEND							3.		
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	FLOOR 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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GOLD PARK HOMES			FIRST FLOOR HEATING LAYOUT	
Project Name			Date	JAN/2016
KLEINBURG GLEN VAUGHAN, ONTARIO			Scale	3/16" = 1'-0"
42-1			BCIN# 19669	
2983 sqft		LO#	66864	



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HVAC LEGEND								3.		
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GOLD PARK HOMES			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	JAN/2016
KLEINBURG GLEN VAUGHAN, ONTARIO			Scale	3/16" ≈ 1'-0"
42-1			BCIN# 19669	
2983 sqft			LO#	66864