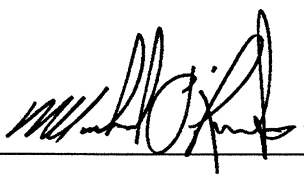


Schedule 1: Designer Information

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]			
☐ 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: 42-4 – OPT 2 ND FLR 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: 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.			
<u>January 27, 2016</u> Date		 Signature of Designer	

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.

ROOM USE	FACTORS		LVIDN	DEN	KTIFM	LAUN	FOY	FOY	BAS
EXP. WALL	EXP. WALL	CLG. HT.	22	24	76	29	82	82	190
CLG. HT.	10		10	10	10	11	10	10	9
FACTORS									
GRS WALL AREA	LOSS GAIN	220	240	760	319	820	1140	1140	
GLAZING	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN	LOSS GAIN
NORTH	24.1 17.5	0 0 0	0 0 0	10 241 175	7 169 122	0 0 0	6 145 105	6 145 105	
EAST	24.1 43.0	0 0 0	0 0 0	123 3084 5509	0 0 0	0 0 0	0 0 0	0 0 0	
SOUTH	24.1 26.4	38 916 1003	19 458 501	0 0 0	0 0 0	0 0 0	6 145 158	6 145 158	
WEST	24.1 43.0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	3 72 129	3 72 129	
SKYLT.	24.1 88.1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
DOORS	25.2 5.3	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	20 505 106	20 505 106	
NET EXPOSED WALL	3.5 0.7	182 629 132	221 763 161	622 2149 452	312 1078 227	40 1010 213	0 0 0	0 0 0	
NET EXPOSED BSMT WALL ABOVE GR	6.3 1.3	0 0 0	0 0 0	0 0 0	0 0 0	749 2587 545	570 3610 760	570 3610 760	
EXPOSED CLG	1.5 0.8	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
NO ATTIC EXPOSED CLG	2.5 1.2	0 0 0	0 0 0	22 54 27	0 0 0	120 284 147	0 0 0	0 0 0	
EXPOSED FLOOR	2.5 0.5	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
BASEMENT/CRAWL HEAT LOSS		0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	8631	8631	
SLAB ON GRADE HEAT LOSS		0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	13108	13108	
SUBTOTAL HT LOSS		1544	1221	5527	1246	4638	2239	1259	
SUB TOTAL HT GAIN		1135	662	6163	349	0.30 0.43	0.30 0.43	0.50 0.78	
LEVEL FACTOR / MULTIPLIER	0.30 0.43	0.30 0.43	0.30 0.43	0.30 0.43	0.30 0.43	0.30 0.43	0.30 0.43	0.50 0.78	
AIR CHANGE HEAT LOSS	668	528	528	2391	539	2007	10223	10223	
AIR CHANGE HEAT GAIN	78	45	45	421	24	153	86	86	
DUCT LOSS	0	0	0	0	0	0	0	0	
DUCT GAIN	0	0	0	0	0	0	0	0	
HEAT GAIN PEOPLE	240	0	0	1	240	0	0	0	
HEAT GAIN APPLIANCES/LIGHTS	836	836	836	836	836	836	0	0	
TOTAL HT LOSS BTUH	2212	1750	1750	7919	1786	6645	23330	23330	
TOTAL HT GAIN x 1.3 BTUH	2975	2005	2005	9958	1571	3109	1748	1748	

TOTAL HEAT GAIN BTU/H:	39940	TONS: 3.33	LOSS DUE TO VENTILATION LOAD BTU/H: 2815	STRUCTURAL HEAT LOSS: 60387	TOTAL COMBINED HEAT LOSS BTU/H: 63203
I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.					
					INDIVIDUAL BCIN: 19669
					MICHAEL O'ROURKE

SITE NAME: KLEINBURG GLEN
BUILDER: GOLD PARK HOMES

TYPE: 42-4 OPT 2ND FL

DATE: Jan-16

GFA: 3371 LO# 66895

HEATING CFM 1255 COOLING CFM 1255
TOTAL HEAT LOSS 60,387 TOTAL HEAT GAIN 39,347
AIR FLOW RATE CFM 20.78 AIR FLOW RATE CFM 31.9

EL195UH090XE48C
FAN SPEED
LOW 0
MEDLOW 0
MEDIUM 1105
HIGH 1255

AFUE = 95.0 %
INPUT (BTU/H) = 88,000
OUTPUT (BTU/H) = 84,000

DESIGN CFM = 1255
CFM @ .6" E.S.P.

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	13	9	5
R/A	0	0	4	3	1

All S/A diffusers 4"x10" unless noted otherwise on layout.
All S/A runs 5'Ø unless noted otherwise on layout.

TEMPERATURE RISE 62 °F

RUN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME	ENS	MBR	BED-2	ENS-2	BED-4	BED-5	BATH	WIC-2	BED-4	MBR	BED-3	LVDN	LVDN	KT/FM	KT/FM	WIC	LAUN	ENS	FOY	DEN	BAS	BAS	BAS	BAS
RM LOSS MBH	1.24	1.55	1.22	0.89	1.50	1.32	1.17	1.18	1.50	1.55	1.73	1.11	1.11	2.64	2.64	0.64	1.79	1.24	3.32	1.75	4.67	4.67	4.67	4.67
CFM PER RUN HEAT	26	32	25	19	31	27	24	25	31	32	36	23	23	55	55	13	37	26	69	36	97	97	97	97
RM GAIN MBH	0.83	2.13	2.16	0.49	1.70	2.09	0.48	0.88	1.70	2.13	2.34	1.49	1.49	3.32	3.32	7	50	28	1.55	2.01	0.35	0.35	0.35	0.35
CFM PER RUN COOLING	26	68	69	16	54	67	15	28	54	68	74	47	47	106	106	7	50	28	50	64	11	11	11	11
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	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	0.16	0.16
EQUIVALENT LENGTH	50	52	35	36	44	36	44	42	38	28	39	22	41	41	32	31	16	30	36	30	38	38	20	22
EQUIVALENT LENGTH	170	130	140	180	170	130	180	150	190	220	200	102	160	170	170	120	130	160	160	170	170	190	80	120
TOTAL EFFECTIVE LENGTH	220	182	175	216	214	166	224	192	228	248	239	124	201	211	202	151	146	190	196	200	208	228	100	142
ADJUSTED PRESSURE	0.08	0.09	0.1	0.08	0.08	0.1	0.08	0.09	0.08	0.07	0.07	0.14	0.09	0.08	0.08	0.08	0.11	0.12	0.09	0.09	0.08	0.07	0.16	0.11
ROUND DUCT SIZE	4	5	5	4	5	5	4	4	5	5	5	4	4	6	6	4	4	4	5	5	6	6	5	5
HEATING VELOCITY (ft/min)	298	235	184	218	228	198	275	287	228	235	264	264	264	280	280	80	424	298	507	264	495	495	712	712
COOLING VELOCITY (ft/min)	298	499	507	184	396	492	172	321	396	499	543	539	539	540	540	80	574	298	367	470	56	56	81	81
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	3X10	3X10
TRUNK	A	B	F	E	E	F	E	E	E	A	E	F	B	A	A	C	F	A	D	E	B	A	C	F

RUN #	25	29	30
ROOM NAME	BAS	FOY	KT/FM
RM LOSS MBH	4.67	3.32	2.64
CFM PER RUN HEAT	97	69	55
RM GAIN MBH	0.35	1.55	3.32
CFM PER RUN COOLING	11	50	106
ADJUSTED PRESSURE	0.16	0.17	0.16
EQUIVALENT LENGTH	35	17	41
EQUIVALENT LENGTH	170	120	120
TOTAL EFFECTIVE LENGTH	205	187	161
ADJUSTED PRESSURE	0.08	0.09	0.1
ROUND DUCT SIZE	6	5	6
HEATING VELOCITY (ft/min)	495	507	280
COOLING VELOCITY (ft/min)	56	367	540
OUTLET GRILL SIZE	4X10	3X10	4X10
TRUNK	D	D	B

TRUNK	CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK	CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)	TRUNK	CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT	VELOCITY (ft/min)
TRUNK A	291	0.07	9.1	10	524	TRUNK G	0	0.00	0	0	0	TRUNK H	0	0.00	0	0	0
TRUNK B	207	0.08	7.8	8	466	TRUNK I	0	0.00	0	0	0	TRUNK J	0	0.00	0	0	0
TRUNK C	608	0.07	12	16	684	TRUNK K	0	0.00	0	0	0	TRUNK L	0	0.00	0	0	0
TRUNK D	235	0.08	8.2	14	529												
TRUNK E	437	0.07	10.6	18	562												
TRUNK F	646	0.07	12.3	18	646												

RETURN AIR #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
AIR VOLUME	135	120	120	125	155	255	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0.15	0.15	0.15
ACTUAL DUCT LGH.	24	52	55	36	32	42	40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EQUIVALENT LENGTH	215	195	195	175	220	235	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EFFECTIVE LENGTH	239	247	250	211	252	277	240	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADJUSTED PRESSURE	0.06	0.06	0.06	0.07	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
ROUND DUCT SIZE	7.1	6.8	6.8	6.7	7.5	9.5	7.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INLET GRILL SIZE	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INLET GRILL SIZE	14	14	14	14	14	30	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TYPE: 42-4
SITE NAME: KLEINBURG GLEN

LO # 66895
OPT 2ND FL

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	2 @ 21.2 cfm	42.4 cfm
Other Bedrooms	4 @ 10.6 cfm	42.4 cfm
Kitchen & Bathrooms	5 @ 10.6 cfm	53 cfm
Other Rooms	6 @ 10.6 cfm	63.6 cfm
Table 9.32.3.A.	TOTAL	201.4 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	95.4 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	201.4	cfm
Less Principal Ventil. Capacity	98	cfm
Required Supplemental Capacity	103.4	cfm

PRINCIPAL EXHAUST FAN CAPACITY			
Model: VANEE 60H	Location: BSMT		
98.0 cfm	3.0 sones ☒ HVI Approved		
PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	ΔT °F	FACTOR	% LOSS
98.0 CFM	X 76 F	X 1.08	X 0.35

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

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 60H		
98 cfm high	50 cfm low	
65 % 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: 42-4	OPT 2ND FL	BUILDER: GOLD PARK HOMES
SFQT: 3371	LO# 66895	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

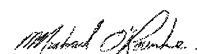
ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	WEST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	46694.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 61.0 ft	WIDTH: 34.0 ft	EXPOSED PERIMETER:	190.0 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



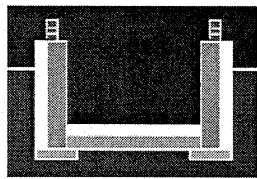
Air Infiltration Residential Load Calculator

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):	1322.2			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (ACH=3.57)			
Custom BDT Data:	ELA @ 10 Pa: 716.42 cm ²		ACH @ 50 Pa: 3.57	
Mechanical Ventilation (L/s):	Total Supply:	Total Exhaust:		
	0	0		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Change Rate (ACH/H):		0.322		
Cooling Air Change Rate (ACH/H):		0.098		

Residential Foundation Thermal Load Calculator

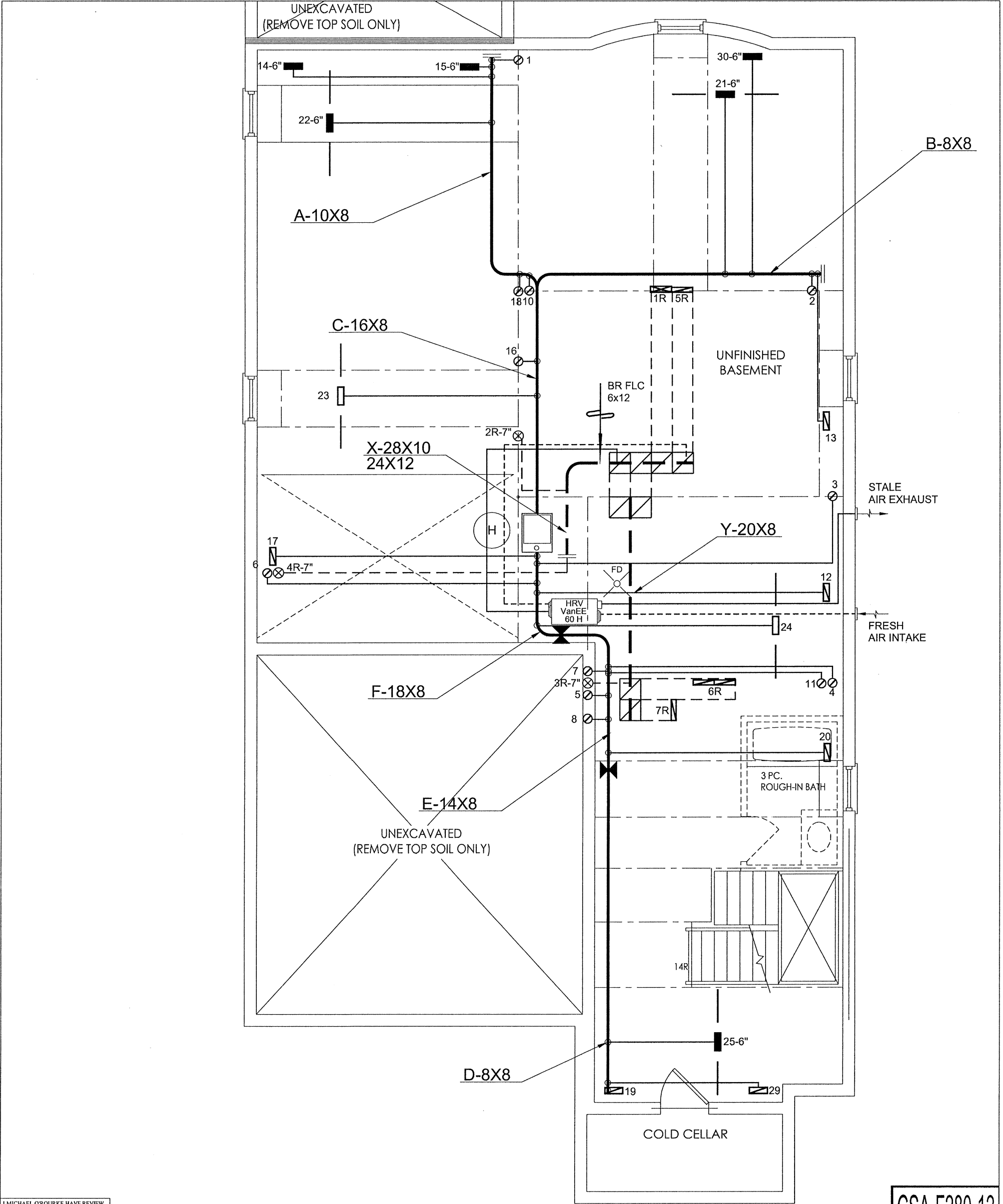
Supplemental tool for CAN/CSA-F280

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):	18.6	 Insulation Configuration
Floor Width (m):	12.8	
Exposed Perimeter (m):	57.9	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.8	
Window Area (m ²):	1.7	
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):	2529	

62.8

2.6 167.86

167.66



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.

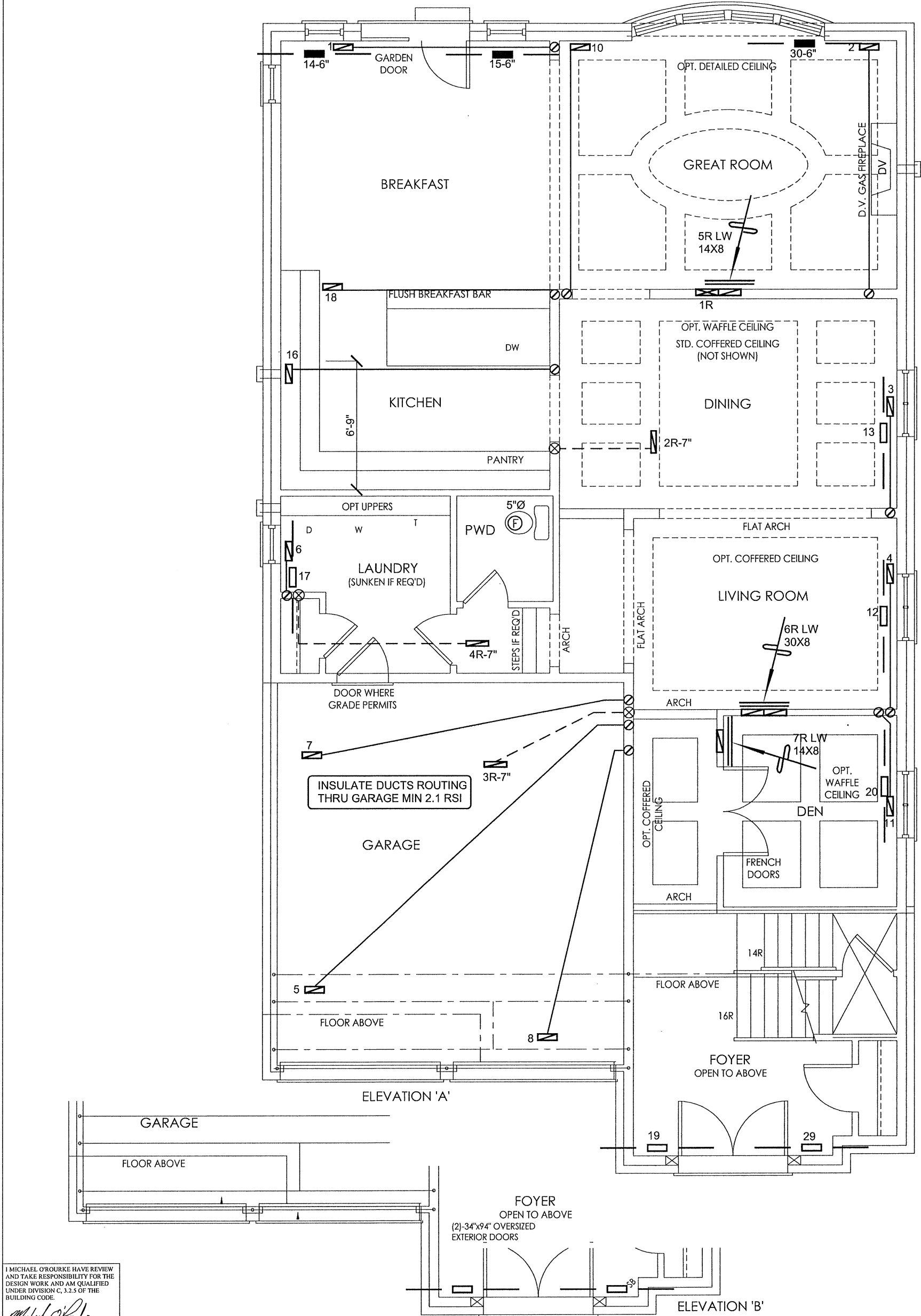
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE J

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.	Description
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS	

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Client		 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	HEAT LOSS 63203 BTU/H		Sheet Title		
GOLD PARK HOMES			UNIT DATA		BASEMENT		
Project Name KLEINBURG GLEN VAUGHAN, ONTARIO			MAKE LENNOX		3RD FLOOR		
			MODEL EL195UH090XE48C-90		2ND FLOOR		
			INPUT 88 MBTU/H		1ST FLOOR		
OPT 2ND FL 42-4		OUTPUT 84 MBTU/H		BASEMENT			
3371 sqft		COOLING 3.5 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			
		FAN SPEED 1255 cfm @ 0.6" w.c.		Date JAN/2016			
				Scale 3/16" = 1'-0"			
				BCIN# 19669			
				LO# 66895			



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
HVAC DESIGNS LTD.

CSA-F280-12
PACKAGE J

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.	Description
	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"
OPT 2ND FL 42-4			BCIN# 19669	
3371 sqft			LO#	66895

