


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@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]				
<input type="checkbox"/> House <input type="checkbox"/> Small Buildings <input type="checkbox"/> Large Buildings <input type="checkbox"/> Complex Buildings <input checked="" type="checkbox"/> HVAC – House <input type="checkbox"/> Building Services <input type="checkbox"/> Detection, Lighting and Power <input type="checkbox"/> Fire Protection <input type="checkbox"/> Building Structural <input type="checkbox"/> Plumbing – House <input type="checkbox"/> Plumbing – All Buildings <input type="checkbox"/> 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: 4005 THE EDGEBROOK Project: PINE VALLEY & TESTON		
D. Declaration of Designer				
I, <u>MICHAEL O'ROURKE</u> (print name) declare that (choose one as appropriate):				
<input type="checkbox"/> 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: _____				
<input checked="" type="checkbox"/> 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>				
<input type="checkbox"/> 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.				
September 10, 2018				
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.

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

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

TOTAL HEAT GAIN BTU/H:

STRUCTURAL HEAT LOSS: 66134

TOTAL COMBINED HEAT LOSS BTU/H: 89315

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

TYPE: 4005 THE EDGEBROOK

DATE: Sep-18

GFA: 3481 LO# 77481

HEATING CFM 1525 COOLING CFM 1525
TOTAL HEAT LOSS 66,134 TOTAL HEAT GAIN 47,349
AIR FLOW RATE CFM 23.06 AIR FLOW RATE CFM 32.21

ALLENNOX
EL296UH090XE48C 90
FAN SPEED
LOW 0
MEDIUM 1105
HIGH 1255
DESIGN CFM = 1525
CFM @ 8" E.S.P.

AFUE = 96 %

INPUT (BTU/H) = 88,000

OUTPUT (BTU/H) = 85,000

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	12	9	5
R/A	0	0	5	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	18	19	20	21	22	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	ENS-3/4	MEDIA	MEDIA	MBR	BATH	GRDN	K/M/G	K/M/G	K/M/G	LAUN	W/R	FOY	FOY	MEDIA	K/M/G	BAS	BAS
RM LOSS MBH	1.85	2.61	1.71	1.71	1.75	1.51	0.85	2.02	2.02	1.85	0.85	3.50	2.30	2.30	2.30	2.59	0.79	4.06	4.06	2.02	2.30	4.46	4.46
CFM PER RUN HEAT	43	60	14	40	40	35	20	47	47	43	19	81	53	53	53	60	18	94	94	47	53	103	103
RM GAIN MBH	2.25	2.04	0.18	2.32	2.60	2.35	0.50	2.49	2.49	2.25	1.34	3.14	2.61	2.61	2.61	1.71	0.38	2.32	2.32	2.49	2.61	0.75	0.75
CFM PER RUN COOLING	72	66	6	75	84	76	16	80	80	72	43	101	84	84	84	55	12	75	75	80	84	24	24
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH	64	42	87	52	15	38	22	40	43	79	31	12	42	48	57	67	6	36	25	46	63	36	54
EQUIVALENT LENGTH	150	130	190	170	180	140	170	165	150	130	180	165	140	130	100	180	100	100	120	180	120	150	140
TOTAL EFFECTIVE LENGTH	214	172	277	222	195	178	192	205	193	209	211	177	182	178	157	247	186	136	145	206	183	186	194
ADJUSTED PRESSURE	0.08	0.1	0.06	0.08	0.08	0.1	0.09	0.08	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.07	0.09	0.12	0.11	0.08	0.09	0.09	0.08
ROUND DUCT SIZE	5	5	4	5	6	5	4	5	5	5	4	6	5	5	5	5	4	5	5	5	5	6	6
HEATING VELOCITY (ft/min)	316	441	161	294	204	257	229	345	345	316	218	413	389	389	389	441	207	690	690	345	389	525	525
COOLING VELOCITY (ft/min)	529	485	69	551	428	558	184	587	587	529	493	515	617	617	617	404	138	551	551	587	617	122	122
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10
TRUNK	B	C	A	D	C	C	C	D	D	A	D	C	B	B	B	A	C	D	D	D	A	B	A

TEMPERATURE RISE 52 °F

RUN #	25	26	27
ROOM NAME	BAS	BAS	BAS
RM LOSS MBH	4.46	4.46	4.46
CFM PER RUN HEAT	103	103	103
RM GAIN MBH	0.75	0.75	0.75
CFM PER RUN COOLING	24	24	24
ADJUSTED PRESSURE	0.16	0.16	0.16
ACTUAL DUCT LGH	44	11	39
EQUIVALENT LENGTH	110	130	180
TOTAL EFFECTIVE LENGTH	154	141	199
ADJUSTED PRESSURE	0.11	0.11	0.08
ROUND DUCT SIZE	6	6	6
HEATING VELOCITY (ft/min)	525	525	525
COOLING VELOCITY (ft/min)	122	122	122
OUTLET GRILL SIZE	4X10	4X10	4X10
TRUNK	B	C	D

SUPPLY AIR TRUNK SIZE										RETURN AIR TRUNK SIZE										VELOCITY	
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	273	0.06	9.3	10	8	X	8	0.00	0	0	X	8	0	0.05	0	0	X	8	0		
TRUNK B	681	0.06	13.1	20	8	X	8	0.00	0	0	X	8	0	0.05	0	0	X	8	0		
TRUNK C	1038	0.06	15.3	28	8	X	8	0.00	0	0	X	8	0	0.05	0	0	X	8	0		
TRUNK D	491	0.08	10.7	14	8	X	8	0.00	0	0	X	8	0	0.05	0	0	X	8	0		
TRUNK E	0	0.00	0	0	8	X	8	0.00	0	0	X	8	0	0.05	0	0	X	8	0		
TRUNK F	0	0.00	0	0	8	X	8	0.00	0	0	X	8	0	0.05	0	0	X	8	0		
RETURN AIR #	1	2	3	4	5	6	7														
AIR VOLUME	135	135	130	130	130	345	275	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		
ACTUAL DUCT LGH	79	59	46	35	36	41	45	1	1	1	1	1	1	1	1	1	1	1	1		
EQUIVALENT LENGTH	230	225	190	145	185	185	225	0	0	0	0	0	0	0	0	0	0	0	0		
TOTAL EFFECTIVE LH	309	284	236	180	221	226	270	1	1	1	1	1	1	1	1	1	1	1	1		
ADJUSTED PRESSURE	0.05	0.05	0.06	0.08	0.07	0.07	0.05	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80		
ROUND DUCT SIZE	7.5	7.5	7	6.5	6.8	9.7	9.7	0	0	0	0	0	0	0	0	0	0	0	0		
INLET GRILL SIZE	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
INLET GRILL SIZE	14	14	14	14	14	30	30	0	0	0	0	0	0	0	0	0	0	0	0		

Michael O'Rourke

TYPE: 4005 THE EDGEBROOK
SITE NAME: PINE VALLEY & TESTON

LO # 77461

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)
a) <input checked="" type="checkbox"/> Direct vent (sealed combustion) only	
b) <input type="checkbox"/> Positive venting induced draft (except fireplaces)	
c) <input type="checkbox"/> Natural draft, B-vent or induced draft gas fireplace	
d) <input type="checkbox"/> Solid Fuel (including fireplaces)	
e) <input type="checkbox"/> No Combustion Appliances	

HEATING SYSTEM	
<input checked="" type="checkbox"/> Forced Air	<input type="checkbox"/> Non Forced Air
<input type="checkbox"/> Electric Space Heat	

HOUSE TYPE	9.32.1(2)
<input checked="" type="checkbox"/> I Type a) or b) appliance only, no solid fuel	
<input type="checkbox"/> II Type I except with solid fuel (including fireplaces)	
<input type="checkbox"/> III Any Type c) appliance	
<input type="checkbox"/> IV Type I, or II with electric space heat	
<input type="checkbox"/> Other: Type I, II or IV no forced air	

SYSTEM DESIGN OPTIONS	O.N.H.W.P.
<input type="checkbox"/> 1 Exhaust only/Forced Air System	
<input type="checkbox"/> 2 HRV with Ducting/Forced Air System	
<input checked="" type="checkbox"/> 3 HRV Simplified/connected to forced air system	
<input type="checkbox"/> 4 HRV with Ducting/non forced air system	
<input type="checkbox"/> Part 6 Design	

TOTAL VENTILATION CAPACITY					9.32.3.3(1)
Basement + Master Bedroom	2	@ 21.2 cfm	42.4	cfm	
Other Bedrooms	3	@ 10.6 cfm	31.8	cfm	
Kitchen & Bathrooms	4	@ 10.6 cfm	42.4	cfm	
Other Rooms	4	@ 10.6 cfm	42.4	cfm	
Table 9.32.3.A.	TOTAL			159.0	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	159		cfm
Less Principal Ventil. Capacity	155		cfm
Required Supplemental Capacity	4.0		cfm

PRINCIPAL EXHAUST FAN CAPACITY				
Model:	VANEE 65H		Location:	BSMT
155.0	cfm	3.0	sones	<input checked="" type="checkbox"/> HVI Approved
PRINCIPAL EXHAUST HEAT LOSS CALCULATION				
CFM	ΔT °F	FACTOR	% LOSS	
155.0 CFM	X	76 F	X	1.08 X 0.25


SUPPLEMENTAL FANS		NUTONE		
Location	Model	cfm	HVI	Sones
ENS	QTXEN050C	50	✓	0.3
ENS-3/4	QTXEN050C	50	✓	0.3
BATH	QTXEN050C	50	✓	0.3
W/R	QTXEN050C	50	✓	0.3

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

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:	September-18

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

CSA F280-12 Residential Heat Loss and Heat Gain Calculations																																																																					
Formula Sheet (For Air Leakage / Ventilation Calculation)																																																																					
LO#: 77461	Model: 4005 THE EDGEBROOK	Builder: GOLD PARK HOMES	Date: 9/10/2018																																																																		
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5.2.3.1 Heat Loss due to Air Leakage																																																																					
$HL_{airb} = LR_{airb} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$ <p>0.351 x 406.09 x 42 °C x 1.2 = 7223 W</p> <p>= 24645 Btu/h</p>																																																																					
5.2.3.2 Heat Loss due to Mechanical Ventilation																																																																					
$HL_{paurb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ <p>155 CFM x 76 °F x 1.08 x 0.25 = 3181 Btu/h</p>																																																																					
5.2.3.3 Calculation of Air Change Heat Loss for Each Room (Floor Multiplier Section)																																																																					
$HL_{airv} = Level Factor \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr}) \div (HL_{aglevel} + HL_{bglevel})\}$ <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Level</th> <th>Level Factor (LF)</th> <th>HLaive Air Leakage + Ventilation Heat Loss (Btu/h)</th> <th>Level Conductive Heat Loss: (HL_{level})</th> <th>Air Leakage Heat Loss Multiplier (LF x HLaiveb / HLlevel)</th> </tr> <tr> <td>1</td> <td>0.5</td> <td rowspan="5" style="text-align: center; vertical-align: middle;">24,645</td> <td>9,975</td> <td>1.235</td> </tr> <tr> <td>2</td> <td>0.3</td> <td>16,801</td> <td>0.440</td> </tr> <tr> <td>3</td> <td>0.2</td> <td>13,769</td> <td>0.358</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> <p>*HLairbv = Air leakage heat loss + ventilation heat loss *For a balanced or supply only ventilation system HLairve = 0</p>				Level	Level Factor (LF)	HLaive Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{level})	Air Leakage Heat Loss Multiplier (LF x HLaiveb / HLlevel)	1	0.5	24,645	9,975	1.235	2	0.3	16,801	0.440	3	0.2	13,769	0.358	4	0	0	0.000	5	0	0	0.000																																								
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6.2.6 Sensible Gain due to Air Leakage																																																																					
$HG_{satb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$ <p>= 0.128 x 406.09 x 9 °C x 1.2 = 548 W</p> <p>= 1869 Btu/h</p>																																																																					
6.2.7 Sensible heat Gain due to Ventilation																																																																					
$HL_{paurb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ <p>155 CFM x 16 °F x 1.08 x 0.25 = 661 Btu/h</p>																																																																					

HEAT LOSS AND GAIN SUMMARY SHEET**MODEL:** 4005 THE EDGEBROOK**BUILDER:** GOLD PARK HOMES**SFQT:** 3481**LO#** 77461**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)	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 (ft ³):	51626.9	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft ²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.1 ft
LENGTH: 67.0 ft	WIDTH: 32.0 ft	EXPOSED PERIMETER:	198.0 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	-

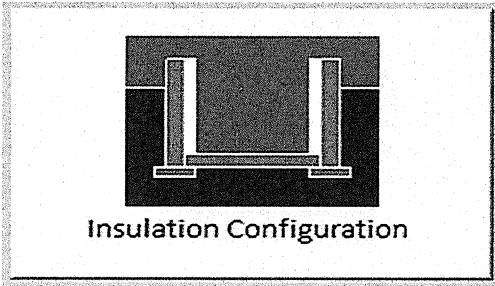
INDIVIDUAL BCIN: 19669

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):	20.4	 Insulation Configuration
Floor Width (m):	9.8	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.8	
Depth Below Grade (m):	1.86	
Window Area (m ²):	3.3	
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):	1955	

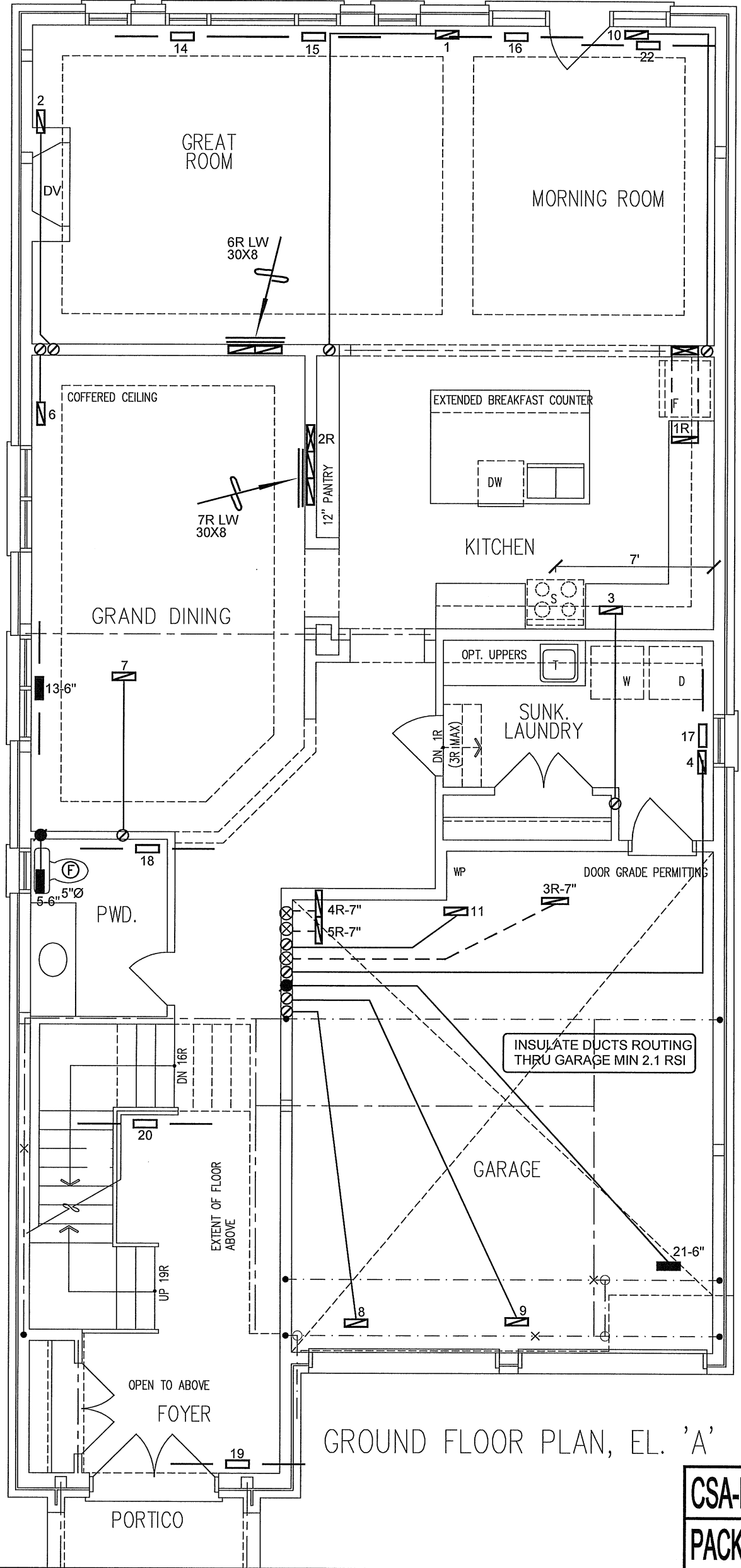
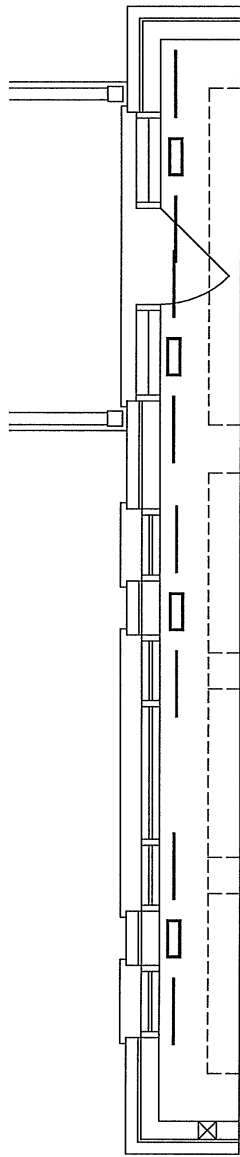
TYPE: 4005 THE EDGEBROOK
LO# 77461

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):	7.35			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	1461.9			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	1948.8 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):		0.351		
Cooling Air Leakage Rate (ACH/H):		0.128		

TYPE: 4005 THE EDGEBROOK
LO# 77461



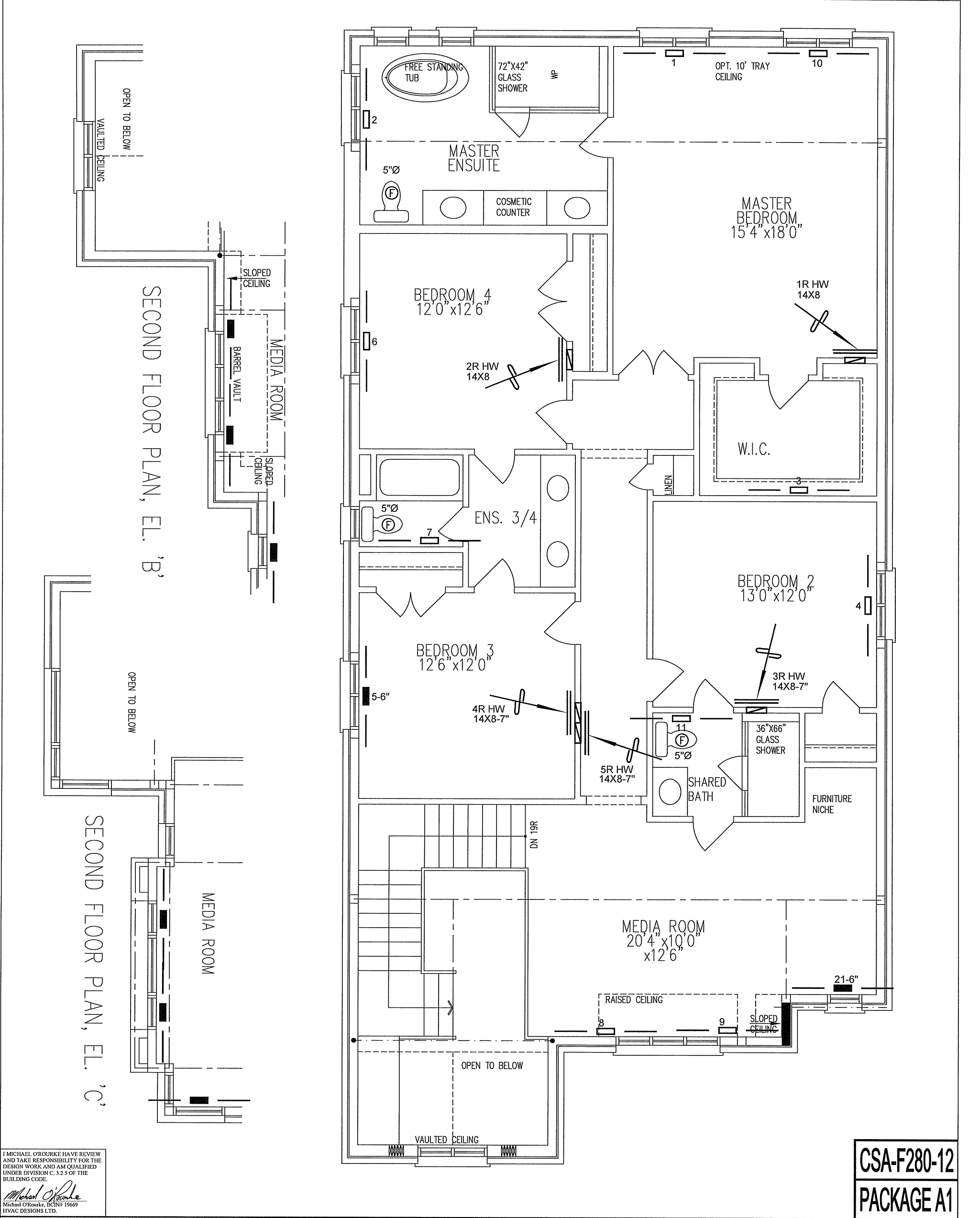
GROUND FLOOR PLAN, EL. 'A'

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

CSA-F280-12
PACKAGE A1

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Client		<div></div> <div>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</div> <div>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.</div>	Sheet Title		
GOLD PARK HOMES			FIRST FLOOR HEATING LAYOUT		
Project Name PINE VALLEY & TESTON VAUGHAN, ONTARIO			Date	JAN/2018	
			Scale	3/16" = 1'-0"	
			BCIN# 19669		
THE EDGEBROOK 4005		3481 sqft		LO#	77461



I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C.3.2.3 OF THE BUILDING CODE.

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

CSA-F280-12

PACKAGE A1

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.	DECK CONDITIONS ADDED	SEPT/2018
	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			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	JAN/2018
PINE VALLEY & TESTON VAUGHAN, ONTARIO			Scale	3/16" = 1'-0"
THE EDGEBROOK			BCIN# 19669	
4005	3481 sqft		LO#	77461