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			Uı	nit no.	Lot/con.
Municipality	Postal code	Plan number/ other des	cription		1
BRAMPTON			·		
B. Individual who reviews and takes	s responsibility f	or design activities			
Name		Firm			
MICHAEL O'ROURKE		HVAC DESIGNS LTD.	-		
Street address			Unit no.		Lot/con.
375 FINLEY AVE	Postal code	Province	202 E-mail		N/A
Municipality AJAX	L1S 2E2	ONTARIO	info@hvacdesig	ns.ca	
Telephone number	Fax number	•	Cell number		
(905) 619-2300	(905) 619-2375		()		
C. Design activities undertaken by	individual identif	ied in Section B. [Build	ding Code Table	3.5.2.1 OF Div	ision C]
Dulawa	S 11) / A C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	□ D.	ilalia a Charanton	-1
☐ House☐ Small Buildings		C – House ng Services	☐ Bu	ıilding Structur umbing – Hous	aı Se
☐ Large Buildings	Detect	tion, Lighting and Pov	ver 🔲 Pli	umbing – All B	uildings
☐ Complex Buildings	☐ Fire P	rotection	☐ Or	n-site Sewage	Systems
Description of designer's work		Model:	SD-6 A		
HEAT LOSS / GAIN CALCULATIONS DUCT SIZING			CNR - OPT. 4 BED		
RESIDENTIAL MECHANICAL VENTILAT	ION DESIGN SUM	MARY Dualant			
RESIDENTIAL SYSTEM DESIGN per CS.		Project:	ENCORE		
D. Declaration of Designer					
MICHAEL O'ROURKE			declare that	(choose one as ap	opropriate):
· ·	print name)				
☐ I review and take responsibility Division C, of the Building Code classes/categories.	for the design work e. I am qualified, an	on behalf of a firm registed the firm is registered, in	red under subsecti the	ion 3.2.4.of appropriate	
Individual BCIN: Firm BCIN:					
I review and take responsibility designer under subsection		am qualified in the approposion C, of the Building Code		n "other	
Individual BCIN: Basis for exemption	19669 from registration ar	nd qualification:	O.B.C SENTE	NCE 3.2.4.1	(4)
☐ The design work is exempt Basis for exemption from regis		tion and qualification requi	irements of the Bui	Iding Code.	
I certify that:					
The information contained I have submitted this applie		dule is true to the best of maledge and consent of the			
September 28, 2017			Michael	Offmhe	
Date				Signature of Des	igner

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.

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 COMBINED HEAT LOSS BTU/H: 38426

10799

000

STRUCTURAL HEAT LOSS: 36022

LOSS DUE TO VENTILATION LOAD BTU/H: 2404

5280

0 418

2803

TOTAL HEAT GAIN BTU/H:

29610

TOTAL HT GAIN x 1.3 BTU/H

TOTAL HT LOSS BTU/H

HEAT GAIN APPLIANCES/LIGHTS

HEAT GAIN PEOPLE DUCT LOSS DUCT GAIN

0

AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN

0.35 720

0.30

0.35 3924

0.30

0.50

1.02

5456

35

5343

482

3469

1349

0.35 1198

0 418

4556

1356

335

0.30

LEVEL FACTOR / MULTIPLIER

SUB TOTAL HT GAIN

SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS

0 0 0 2083

BASEMENT/CRAWL HEAT LOSS EXPOSED FLOOR

0 0 0 338

278 0 0

24.7 36.4 20.8

20.8

20.8

20.8 16.1

LOSS GAI 295 0

GAIN

SSOT

FACTORS

EAST

NORTH

GLAZING SOUTH

WEST

SKYLT.

DOORS

41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3

NO ATTIC EXPOSED CLG

NET EXPOSED BSMT WALL ABOVE GR NET EXPOSED WALL EXPOSED CLG

0 0 82 0 0

1704

0 13 10 0 60 60 347

1479

0 536 249 0 0 279 285 0

0 0 0 0 20 0 0 0

93 163 0

1012 LOSS 291 0

BAS 148 9

0 270 208 0

0 896 3383 0

SSOT

LOSS GAIN 430

3 & 5 5 & 6

0 0

456 1 48 0

ROOM USE EXP. WALL CLG. HT.

3ASEMENT/CRAWL HEAT LOSS

NET EXPOSED BSMT WALL ABOVE GR

NET EXPOSED WALL

GRS.WALL AREA LOSS

GAIN

145

GLAZING

NORTH

LOSS GAIN

LOSS GAIR 187

LOSS GAIN

SSOT

LOSS GAIN

0 0 SSOT

351

EAST

SOUTH

20.8 20.8 20.8

WEST

SKYLT

24.7 36.4 20.8

16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.6 1.3

0 0 0 0

0 498 0 0 -16 0

EXP. WALL ROOM USE

MBR 17

BED-2 21 9

CLG. HT

FACTORS

SITE NAME: ENCORE

BUILDER: GOLD PARK HOMES

CNR - OPT. 4 BED TYPE: SD-6 A

GFA: 2007

DATE: Sep-17 LO# 76094 BED-4 39 9

WINTER NATURAL AIR CHANGE RATE 0.315
SUMMER NATURAL AIR CHANGE RATE 0.108

HEAT LOSS AT °F.
HEAT GAIN AT °F.

74 14

CSA-F280-12 SB-12 PACKAGE A1

Tel: 905.619.2300 Fax: 905.619.2375 Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

375 Finley Ave. Suite 202 Ajax, ON L1S 2E2

NO ATTIC EXPOSED CLG

EXPOSED CLG

EXPOSED FLOOR

SLAB ON GRADE HEAT LOSS

LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS

0.20

0.20 0.22 349

0.20

0.22 1966

1450

1741

434

0.22 385 213

0.20

0.22 2552

0.20

0.22 96

141

1921

532

106

0.22 355

SUB TOTAL HT GAIN

SUBTOTAL HT LOSS

1609

1579

1611

AIR CHANGE HEAT GAIN

DUCT LOSS

196

HEAT GAIN APPLIANCES/LIGHTS TOTAL HT GAIN x 1.3 BTU/H

HEAT GAIN PEOPLE

240

TOTAL HT LOSS BTU/H

2161

2400

240 418

229 240 418

0 240 418

529

1286 418 0 0

418 263 480 HAMA DESIGNS LID.

GRS.WALL AREA

31 30

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				145 159 80 0.09 80 6.5 0 8 0 8	0 14.80 0 0 0 0 0 0	0 0 1 1 1 14.80 14.80 0 0 0 0 0 0	0 14.80 0 0 0 0	0 14.80 0 0 0	0 14.80 0 0 0 0	0 0 1 1 1 14.80 14.80 0 0 0 0 0 0	0 1 14.80 0 0 0	0 14.80 0 0	0 14.80 0 0 0	165 201 0.07 10.1 8 8 X	165 1 202 2 0.07 0 6.6 1 8 8	200 255 255 0.06 7.5 8 8 X	195 247 0.06 7.5 8 8 X	교 노 코 -
24 0 20 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.06 0 0.06 0 0.06 14.8 0.06 13.1 0.06 0 0.06 14.8	950 0 0 0 0 0 0 0 0 0 0 0 0 0 0																RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH.
××××			TRUNK Q TRUNK R TRUNK S	0000	∞ ∞ ∞ ∞ o	××××	0000	0.00	0000	TRUNK J TRUNK K TRUNK K	0000	00000	××××	0000	0000	0.00	0000	
××	တာတာ ကို ဂ်	Ŷ		() E			. 0		_	TRUNK G	_OCITY Vmin) 343	<	× ×		Ü	-	,,	SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK B
																		RUN# ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK
5 698 51 3X10 A	627 403 4X10 B		5 301 426 3X10 B	71		57 4× 4×	5 543 426 3X10 B	10	20 20 3X A	5 001 26 8 100 8					4.4.3	6 260 438 4X10 A		HEATING VELOCITY (ft/min) 2 COOLING VELOCITY (ft/min) 4 COOLING VELOCITY (ft/min) 4 OUTLET GRILL SIZE 3 TRUNK
0.22 0.22 0.22 7 7 7 0.16 0.16 0.16 32 16 31 120 130 110 152 146 141 0.11 0.11 0.11	2.43 79 0.15 34 100 134 0.11		1.77 58 0.17 50 130 180 0.1	111015	145 3.45 12 112 15 0.15 16 21 4 21 20 120 141 1 0.11	3.45 112 0.15 34 120 154 0.1	1.79 58 0.17 23 120 143 0.12	7 7 8	1.88 61 0.17 40 170 210 0.08	1.77 58 0.17 55 140 195 195	1.29 1 42 1 0.17 0 18 1 180 1 198 1	1.64 1 53 0.17 0 40 190 230 0.07 0	1.64 1 53 0.17 0 42 150 192 0.09 0	2.88 1 94 0.16 0 37 180 217 0.07 0	0 N 4 . 0 . N	2.63 86 0.16 48 160 208 0.08	1.88 61 0.17 43 130 173 0.1	
22 BAS 3.60 95	20 FOY 4.67 123		17 BED-4 1.56 41	6 FM	_	1. KT/ 2.6 7	12 FORM 2.80 74	~ & ži C	10 MB 1.0 28	8 ED-4 1.56	_		ω	, ,	. BE	2 ENS 1.93 51	1 //BR 1.08 28	RUN # ROOM NAME N RM LOSS MBH. 1 CFM PER RUN HEAT
DESIGN CFM = 950 CFM @ .6 * E.S.P. TEMPERATURE RISE 42	0 650 950 1060		MEDLOW MEDLOW MEDIUM HIGH MEDIUM HIGH		17 02 15	sure 0.17 Loss 0.02 e r/a 0.15	r/a pressure r/a grille press. Loss adjusted pressure r/a		r/a 0.35 s/a 0.18 ss 0.03 s/a 0.15	for s/a & r/a plenum pressure s/a max s/a dif press. loss min adjusted pressure s/a	plenun max s/a in adjuste	<u> </u>	Bas 1	1 4 st		3rd 2	4th 0 0 s noted of otherwise	RUN COUNT
AFUE = 96 % INPUT (BTU/H) = 44,000 OUTPUT (BTU/H) = 43,000	^LENNOX 45	^LE! XE36B 4 SPEED	ALED FAN SPEED					, N.55 60		furnace pressure furnace filter a/c coil pressure available pressure	fur a/c availi		950 29,157 32.58	GAIN 29 CFM 3:	COOLING CFM TOTAL HEAT GAIN AIR FLOW RATE CFM	TC AIR F	950 36,022 26.37	HEATING CFM (TOTAL HEAT LOSS 36 AIR FLOW RATE CFM 2)
	LO# 76094	2007 LC	GFA: 2		-17	DATE: Sep-17	DA	BED	무	CNR - (TYPE: SD-6 A	, T				K HOMES	SITE NAME: ENCORE BUILDER: GOLD PARK HOMES	IAME: EN	SITE N



375 Finley Ave. Suite 202 Ajax, ON L1S 2E2
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Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

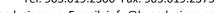


TYPE: SD-6 A SITE NAME: ENCORE LO# 760

76094 CNR - OPT. 4 BED

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL \	VENTILATION CAPACITY		9.32.3.5.
a)		Total Ventilation Ca	pacity	148.4	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	il. Capacity	120	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacity	28.4	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAL	JST FAN CAPACITY		
		Model:	VANEE 60H-V+	Location:	BSMT
HEATING SYSTEM		120.0	cfm 3.0	sones	✓ HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAU	JST HEAT LOSS CALCUI		% LOSS
		120.0 CFM	ΔT °F X 74 F	FACTOR X 1.08	X 0.25
Electric Space Heat		SUPPLEMENTAL F	ANS	NUTONE	
		Location	Model	cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	√ 0.3
		BATH	QTXEN050C	50	√ 0.3
✓ I Type a) or b) appliance only, no solid fuel		PWD	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplaces	5)	HEAT RECOVERY	VENTILATOR		9.32.3.11.
III Any Type c) appliance		Model: 139	VANEE 60H-V+	50	cfm low
IV Type I, or II with electric space heat			_	-	
Other: Type I, II or IV no forced air		75	% Sensible Efficier @ 32 deg F (0 deg		✓ HVI Approved
		·			
OVOTEM REGION ORTIONS	O.N.H.W.P.	LOCATION OF INS	TALLATION		
SYSTEM DESIGN OPTIONS	U.N.H.W.P.	Lot:		Concession	
1 Exhaust only/Forced Air System					
2 HRV with Ducting/Forced Air System		Township		Plan:	
✓ 3 HRV Simplified/connected to forced air system		Address			
4 HRV with Ducting/non forced air system		Roll #		Building Per	mit #
Part 6 Design		BUILDER:	GOLD PARK HOM	MES	
ranto bosign		Name:			
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:			
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u>	cfm	Telephone #:		Fax#:	
Kitchen & Bathrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	INSTALLING CONT	TRACTOR		
Other Rooms <u>3</u> @ 10.6 cfm <u>31.8</u>	cfm	Name:			
Table 9.32.3.A. TOTAL 148.4	cfm	Address:			
		City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		Fax#:	
1 Bedroom 31.8	cfm			FdX#.	
2 Bedroom 47.7	cfm		this ventilation system has	-	
3 Bedroom 63.6	cfm	in accordance with t Name:	the Ontario Building Code. HVAC Designs Lt		
4 Bedroom 79.5	cfm	Signature:	/	Mehad Ofound	e.
5 Bedroom 95.4	cfm	HRAI#		001820	
TOTAL 79.5 cfm		Date:		September-17	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL	LIFIED IN THE API		"OTHER DESIGNER" UNDER DI	VISION C, 3.2.5 OF THE BI	UILDING CODE.





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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: SFQT:	SD-6 A 2007	LO#	CNR - OPT. 4 BED 76094	BUILDER: GOLD PARK HOMES SITE: ENCORE	
	SSUMPTIONS				
	R DESIGN TEMP. DESIGN TEMP.		°F -2 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	°F 86 72
ATTACHM			ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA			EAST	ASSUMED (Y/N):	Y
AIR CHAN	GES PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGHTNESS CATEGORY:			AVERAGE	ASSUMED (Y/N):	Υ
WIND EXF	POSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	DLUME (ft³):		26116.5	ASSUMED (Y/N):	Υ
INTERNAL	. SHADING:	BLINDS	S/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/h	n/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	TION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.5 ft
LENGTH:	48.0 ft	WIDTH:	26.0 ft	EXPOSED PERIMETER:	123.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Compliance	e Package
Component	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	29.8
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

Wea	ther Sta	tion Description							
Province: Region:	Ontario Brampto	on							
		escription							
Soil Conductivity:	Normal	conductivity: dry dand, loam, clay							
Water Table:	Normal	(7-10 m, 23-33 ft)							
Fo	undatio	on Dimensions							
Floor Length (m):	14.6								
Floor Width (m):	7.9								
Exposed Perimeter (m):	37.5								
Wall Height (m):	2.6								
Depth Below Grade (m):	2.0	Insulation Configuration							
Window Area (m²):	1.3								
Door Area (m²):	1.9								
Radiant Slab									
Heated Fraction of the Slab:	0								
Fluid Temperature (°C):	33								
	Desig	n Months							
Heating Month	1								
	Founda	ation Loads							
Heating Load (Watts):		1083							

TYPE: SD-6 A **LO#** 76094

CNR - OPT. 4 BED



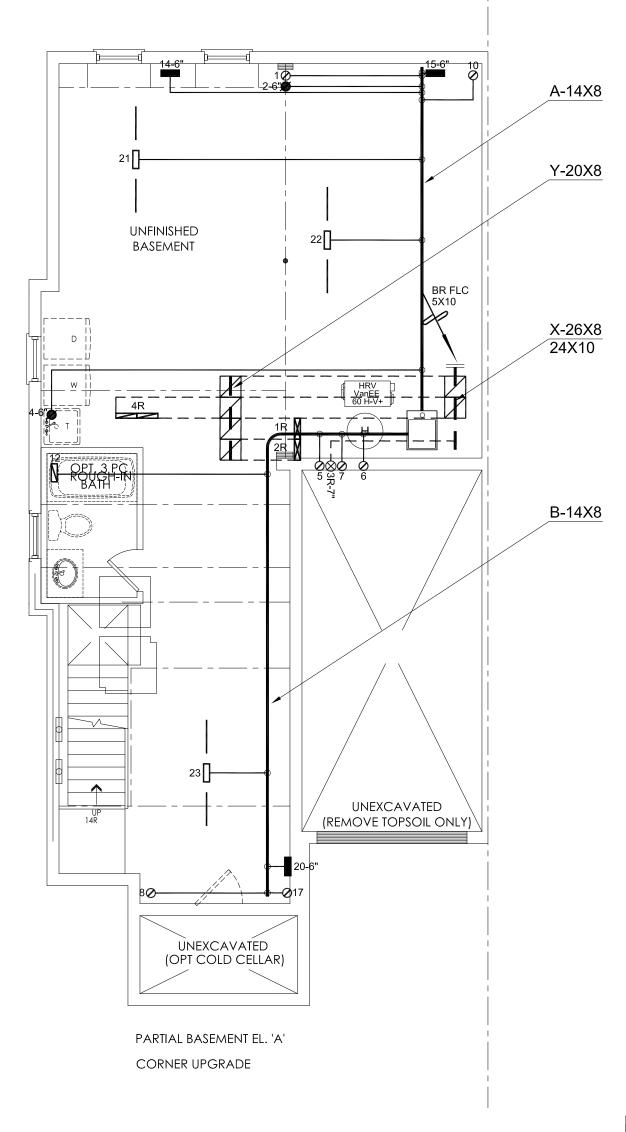
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Statio	n Des	cript	ion		
Province:	Ontai	rio			
Region:	Bram	pton			
Weather Station Location:	Open	flat te	rrain, g	grass	
Anemometer height (m):	10				
Local Sh	ieldin	g			
Building Site:	Subui	rban, f	orest		
Walls:	Heav	y			
Flue:	Heav	y			
Highest Ceiling Height (m):	6.10				
Building Cor	nfigura	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	739.5				
Air Leakage/	Venti	latior	1		
Air Tightness Type:	Prese	nt (19	61-) (3.	.57 ACH	H)
Custom BDT Data:	ELA @	9 10 Pa	Э.		985.8 cm ²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
• • •		56.6			56.6
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infilt	ration	Rate	S		
Heating Air Leakage Rate (ACH/H):		C	.31	5	
Cooling Air Leakage Rate (ACH/H):		C	.10	8	

TYPE: SD-6 A **LO#** 76094

CNR - OPT. 4 BED



I MICHAEL O'ROURKE HAVE REVIEW
AND TAKE RESPONSIBILITY FOR IDESIGN WORK AND AM QUALIFIED
UNDER DIVISION C, 3.2.5 OF THE
BUILDING CODE.

Michael Of Durke

PACKAGE A1

	·			HVAC LE	EGEND			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	0	SUPPLY AIR STACK FROM 2nd FLOOR	<u> </u>	30"x8" RETURN AIR GRILLE	×	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	Ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD. MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

Cllent

GOLD PARK HOMES

Project Name

ENCORE
BRAMPTON, ONTARIO
CORNER UPGRADE
OPT. 4 BED
SD-6 A 2007 sqft

HVA DESIGNS 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.

FAN SPEED

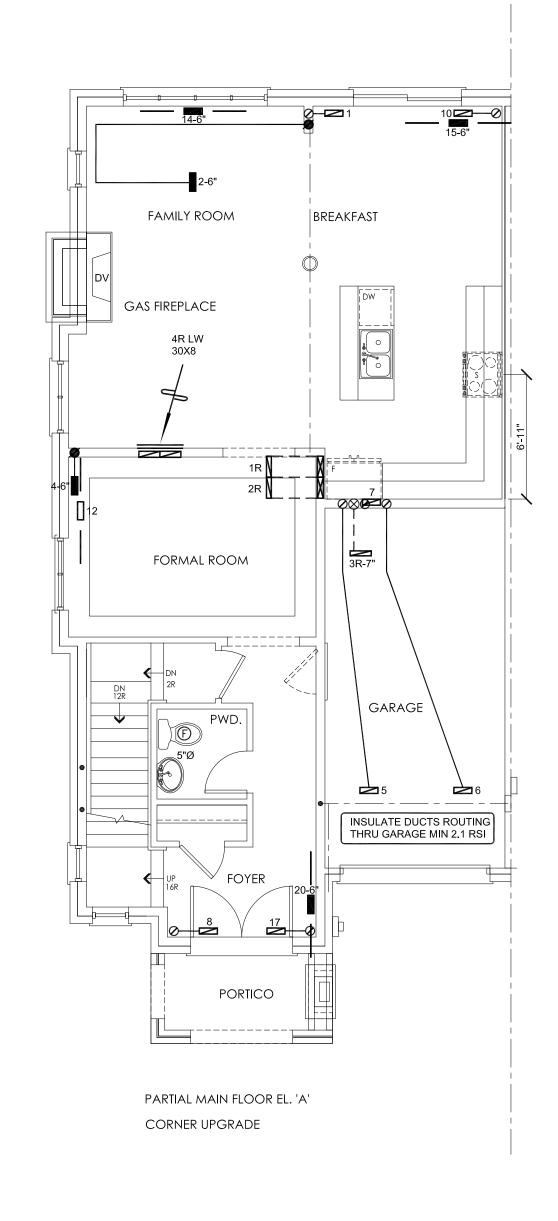
		55 38426	BTU/H	# OF RUNS	S/A	R/A	FANS	
	U	NIT DATA		3RD FLOOR				
	MAKE L	ENNOX		2ND FLOOR	9	3	2	
	MODEL EL296	JH045XE36	6B	1ST FLOOR	4	1	2	
	INPUT	44	MBTU/H	BASEMENT	3	1	0	Da
_	OUTPUT	40	MBTU/H	ALL S/A DIFFU:	SERS	4 "x10)"	So
	COOLING	43		UNLESS NOTE				
Э	COOLING	2.5	TONS	ON LAYOUT. A UNLESS NOTE				_
						~		11

950

ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

IS	Sheet		
		BASEMEN	T
		HEATING	i
		LAYOUT	
	Date	SEPT/2017	
	Scale	3/16" = 1'-0"	
Ø		BCIN# 19669	9
	LC)# 7609	4



I MICHAEL O'ROURKE HAVE REVIEW
AND TAKE RESPONSIBILITY FOR IDESIGN WORK AND AM QUALIFIED
UNDER DIVISION C, 3.2.5 OF THE
BUILDING CODE.

Michael O'Rounds of Division
Michael O'Rounds of Division
Michael O'Rounds of Division

CSA-F280-12 PACKAGE A1

	'			HVAC LE	EGEND			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	0	SUPPLY AIR STACK FROM 2nd FLOOR	<u> </u>	30"x8" RETURN AIR GRILLE	×	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	Ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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Cllent

GOLD PARK HOMES

Project Name

ENCORE
BRAMPTON, ONTARIO
CORNER UPGRADE
OPT. 4 BED
SD-6 A 2007 sqft

HVA DESIGNS 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.

FIRST FLOOR HEATING

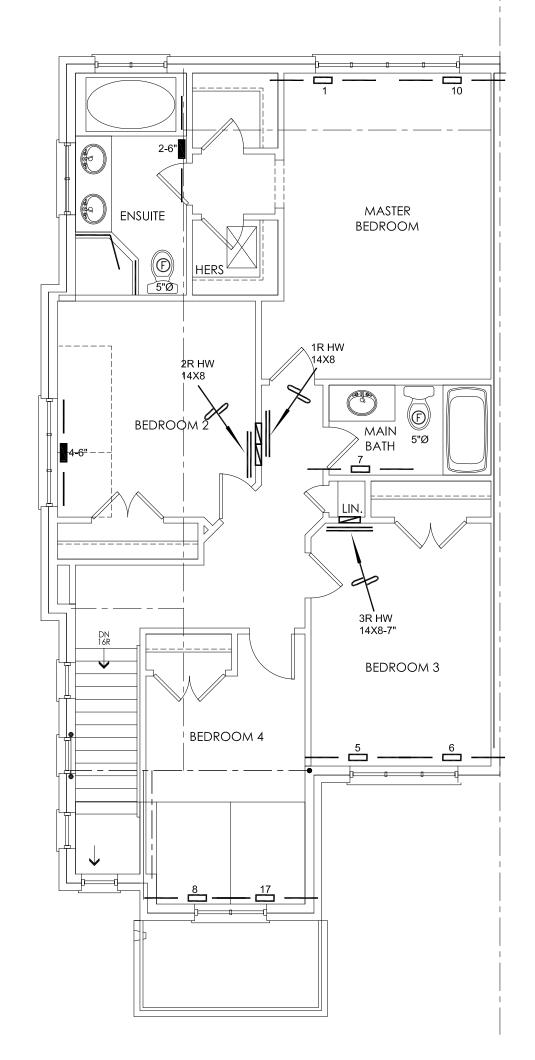
 LAYOUT

 Date
 SEPT/2017

 Scale
 3/16" = 1'-0"

BCIN# 19669

LO# 76094



PARTIAL SECOND FLOOR ELEV. 'A'
CORNER UPG / OPT. 4 BEDRM

I MICHAEL O'ROURKE HAVE REVIEW
AND TAKE RESPONSIBILITY FOR TH
DESIGN WORK AND AM QUALIFIED
UNDER DIVISION C, 3.2.5 OF THE
BUILDING CODE.

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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	N	RETURN AIR STACK ABOVE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR	<u> </u>	30"x8" RETURN AIR GRILLE	×	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	Ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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SECOND FLOOR HEATING

LAYOUT

Date SEPT/2017

BCIN# 19669

LO# 76094