

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.
Municipality VAUGHAN (WOODBIDGE)			Postal code
Plan number/ other description			Lot/con.
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: 4204 BROOKVALLEY - OPT 5 BED Project: PINE VALLEY PH 2	
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.			
May 2, 2022 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

TOTAL COMBINED HEAT LOSS BTU/H: 79485

Michael Spinde.

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

SITE NAME: PINE VALLEY PH 2
BUILDER: GOLD PARK HOMES

TYPE: 4204

DATE: May-22

GFA: 3646

LO# 96511

HEATING CFM 1995
TOTAL HEAT LOSS 77,527
AIR FLOW RATE CFM 25.73COOLING CFM 1995
TOTAL HEAT GAIN 60,643
AIR FLOW RATE CFM 32.9ML196UH110XE60C
FAN SPEED 0
LOW
MEDIUM
MEDIUM HIGH
HIGH\$LENNOX
110
1420
1550
1725
1995AFUE = 96 %
INPUT (BTU/H) = 110,000
OUTPUT (BTU/H) = 107,200

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	17	13	6
R/A	0	0	6	3	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	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME	MBR	ENS	MBR	BED-3	BED-4	BED-5	ENS-4	BED-3	BED-4	WIC	ENS-3	DIN	KT/GT	KT/GT	KT/GT	LIB	LAUN	PWD	FOY	MUD	BAS	BAS	BAS	BAS
RM LOSS MBH	1.75	3.61	1.75	2.19	1.75	1.86	0.97	2.19	1.75	1.76	0.21	1.63	2.43	2.43	2.43	2.16	0.22	1.10	2.59	2.37	3.92	3.92	3.92	3.92
CFM PER RUN HEAT	45	93	45	56	45	43	25	56	45	45	5	42	63	63	63	56	6	28	61	61	101	101	101	101
RM GAIN MBH	2.48	3.13	2.48	3.01	2.58	2.31	0.80	3.01	2.58	0.91	0.10	1.79	2.47	2.47	2.47	2.59	1.41	0.18	1.29	0.39	0.56	0.56	0.56	0.56
CFM PER RUN COOLING	82	103	82	99	85	76	26	99	85	30	3	59	81	81	81	85	47	6	43	13	18	18	18	18
ADJUSTED PRESSURE	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.16	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH	51	47	47	52	72	45	50	56	63	43	25	29	26	26	26	43	50	34	36	10	41	21	16	52
EQUIVALENT LENGTH	160	200	120	150	200	160	140	160	190	160	150	100	110	110	110	150	170	100	150	140	130	100	100	100
TOTAL EFFECTIVE LENGTH	211	247	167	202	272	205	190	216	253	203	175	129	136	136	193	163	220	134	186	150	171	121	116	152
ADJUSTED PRESSURE	0.08	0.07	0.1	0.08	0.06	0.08	0.09	0.08	0.06	0.08	0.1	0.13	0.12	0.12	0.08	0.1	0.08	0.13	0.09	0.11	0.09	0.13	0.14	0.11
ROUND DUCT SIZE	6	6	6	6	6	6	4	6	6	5	4	6	6	6	6	6	5	4	5	5	6	6	6	6
HEATING VELOCITY (ft/min)	229	474	229	286	229	219	287	286	229	330	57	214	321	321	321	286	44	321	492	448	515	515	515	515
COOLING VELOCITY (ft/min)	418	525	418	505	433	388	298	505	433	220	34	301	413	413	413	433	345	69	316	95	92	92	92	92
OUTLET GRILL SIZE	4X10	4X10	4X10	4X10	4X10	4X10	3X10	4X10	4X10	3X10	3X10	4X10	4X10	4X10	4X10	4X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	4X10
TRUNK	E	A	D	C	B	A	C	C	B	E	D	A	D	E	A	B	C	C	C	E	A	E	D	B

RUN #	25	26	27	28	29	30	31	32	33	34	35	36
ROOM NAME	BED-5	LIB	KT/GT	S-BATH	BED-2	BAS	BED-4	LIB	FOY	BAS	DIN	S-BATH
RM LOSS MBH	1.68	2.16	2.43	0.48	1.66	3.92	1.75	2.16	2.59	3.92	1.63	0.48
CFM PER RUN HEAT	43	56	63	12	43	101	45	56	67	101	42	12
RM GAIN MBH	2.31	2.59	2.47	0.20	2.78	0.56	2.58	2.59	1.29	0.56	1.79	0.20
CFM PER RUN COOLING	76	85	81	6	92	18	85	85	43	18	59	6
ADJUSTED PRESSURE	0.17	0.16	0.16	0.17	0.16	0.16	0.16	0.16	0.17	0.16	0.17	0.17
ACTUAL DUCT LGH	50	37	55	22	30	76	54	43	38	29	58	58
EQUIVALENT LENGTH	150	150	150	160	120	160	140	170	180	120	120	130
TOTAL EFFECTIVE LENGTH	200	200	187	215	182	150	236	194	213	218	149	188
ADJUSTED PRESSURE	0.09	0.08	0.09	0.08	0.09	0.11	0.07	0.08	0.08	0.07	0.12	0.09
ROUND DUCT SIZE	6	6	6	4	6	6	6	6	5	6	5	4
HEATING VELOCITY (ft/min)	219	286	321	138	219	515	229	286	492	515	308	138
COOLING VELOCITY (ft/min)	388	433	413	69	469	92	433	316	316	92	433	69
OUTLET GRILL SIZE	4X10	4X10	4X10	3X10	4X10	4X10	4X10	4X10	3X10	4X10	3X10	3X10
TRUNK	A	B	A	C	E	D	B	B	B	C	A	C

SUPPLY AIR TRUNK SIZE										RETURN AIR TRUNK SIZE									
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	490	0.07	11.1	16	8	TRUNK G	0	0.00	0	0	8	TRUNK O	0	0.06	0	0	8		
TRUNK B	471	0.06	11.4	16	8	TRUNK H	0	0.00	0	0	8	TRUNK P	0	0.06	0	0	8		
TRUNK C	834	0.06	14.1	24	8	TRUNK I	0	0.00	0	0	8	TRUNK Q	0	0.06	0	0	8		
TRUNK D	1639	0.06	18.1	30	10	TRUNK J	0	0.00	0	0	8	TRUNK R	0	0.06	0	0	8		
TRUNK E	358	0.08	9.5	10	8	TRUNK K	0	0.00	0	0	8	TRUNK S	0	0.06	0	0	8		
TRUNK F	0	0.00	0	0	0	TRUNK L	0	0.00	0	0	8	TRUNK T	0	0.06	0	0	8		

RETURN AIR #									
1	2	3	4	5	6	7	8	9	BR
130	0	0	0	0	0	0	0	0	TRUNK V
130	130	130	130	140	340	370	260	130	0
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK W
45	59	61	54	47	26	26	60	51	1495
185	175	195	185	160	205	170	155	185	0
EQUIVALENT LENGTH									TRUNK X
TOTAL EFFECTIVE LH	230	234	256	239	207	196	231	236	660
ADJUSTED PRESSURE	0.06	0.06	0.06	0.07	0.06	0.08	0.07	0.06	TRUNK Y
ROUND DUCT SIZE	7	7	7	6.9	10.1	9.7	8.8	7	1130
INLET GRILL SIZE	8	8	8	8	8	8	8	8	DROP
INLET GRILL SIZE	14	14	14	14	30	30	30	14	1995
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TYPE: 4204
SITE NAME: PINE VALLEY PH 2

LO # 96511
BROOKVALLEY - OPT 5 BED

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	6 @ 10.6 cfm	63.6 cfm
Other Rooms	4 @ 10.6 cfm	42.4 cfm
Table 9.32.3.A.	TOTAL	190.8 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	95.4	cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	190.8	cfm
Less Principal Ventil. Capacity	95.4	cfm
Required Supplemental Capacity	95.4	cfm

PRINCIPAL EXHAUST FAN CAPACITY			
Model:	VANEE V150H		
Location:	BSMT		
95.4 cfm	☒ HVI Approved		
PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	$\Delta T^{\circ}F$	FACTOR	% LOSS
95.4 CFM	X 76 F	X 1.08	X 0.25

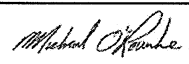
SUPPLEMENTAL FANS		BY INSTALLING CONTRACTOR		
Location	Model	cfm	HVI	Sones
ENS	BY INSTALLING CONTRACTOR	50	☒	3.5
ENS-4	BY INSTALLING CONTRACTOR	50	☒	3.5
ENS-3	BY INSTALLING CONTRACTOR	50	☒	3.5
PWD	BY INSTALLING CONTRACTOR	50	☒	3.5

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model:	VANEE V150H	
150 cfm high	35 cfm low	
75 % 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:	May-22

CSA F280-12 Residential Heat Loss and Heat Gain Calculations																																																																																					
Formula Sheet (For Air Leakage / Ventilation Calculation)																																																																																					
LO#: 96511		Model: 4204		Builder: GOLD PARK HOMES		Date: 2022-05-02																																																																															
Volume Calculation				Air Change & Delta T Data																																																																																	
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5.2.3.1 Heat Loss due to Air Leakage																																																																																					
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$																																																																																					
0.370	x	421.26	x	42 °C	x	1.2	=	7889 W																																																																													
								=	26916 Btu/h																																																																												
5.2.3.2 Heat Loss due to Mechanical Ventilation																																																																																					
$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$																																																																																					
95 CFM	x	76 °F	x	1.08	x	0.25	=	1958 Btu/h																																																																													
5.2.3.3 Calculation of Air Change Heat Loss for Each Room (Floor Multiplier Section)																																																																																					
$HL_{airr} = Level Factor \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr}) \div (HL_{agclevel} + HL_{bgclevel})\}$																																																																																					
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5	0		0	0.000																																																																																	
*HLairbv = Air leakage heat loss + ventilation heat loss **For a balanced or supply only ventilation system HLairve = 0																																																																																					
								Michael O'Rourke BCIN# 19669 																																																																													

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: 4204	BROOKVALLEY - OPT 5 BED	BUILDER: GOLD PARK HOMES
SFQT: 3646	LO# 96511	SITE: PINE VALLEY PH 2

DESIGN ASSUMPTIONS

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	-4	OUTDOOR DESIGN TEMP.	88
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	75
		WINDOW SHGC	0.50

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):	53556.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.75	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	7.0 ft
LENGTH: 62.0 ft	WIDTH: 35.0 ft	EXPOSED PERIMETER:	194.0 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	96%	-
HRV/ERV Minimum Efficiency	75%	-
Domestic Hot Water Heater Minimum EF	0.8	-

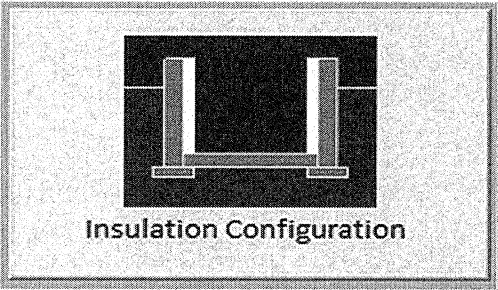
INDIVIDUAL BCIN: 19669

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):	18.9	 Insulation Configuration
Floor Width (m):	10.7	
Exposed Perimeter (m):	0.0	
Wall Height (m):	3.0	
Depth Below Grade (m):	2.13	
Window Area (m ²):	2.7	
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):		1930

TYPE: 4204
LO# 96511

BROOKVALLEY - OPT 5 BED

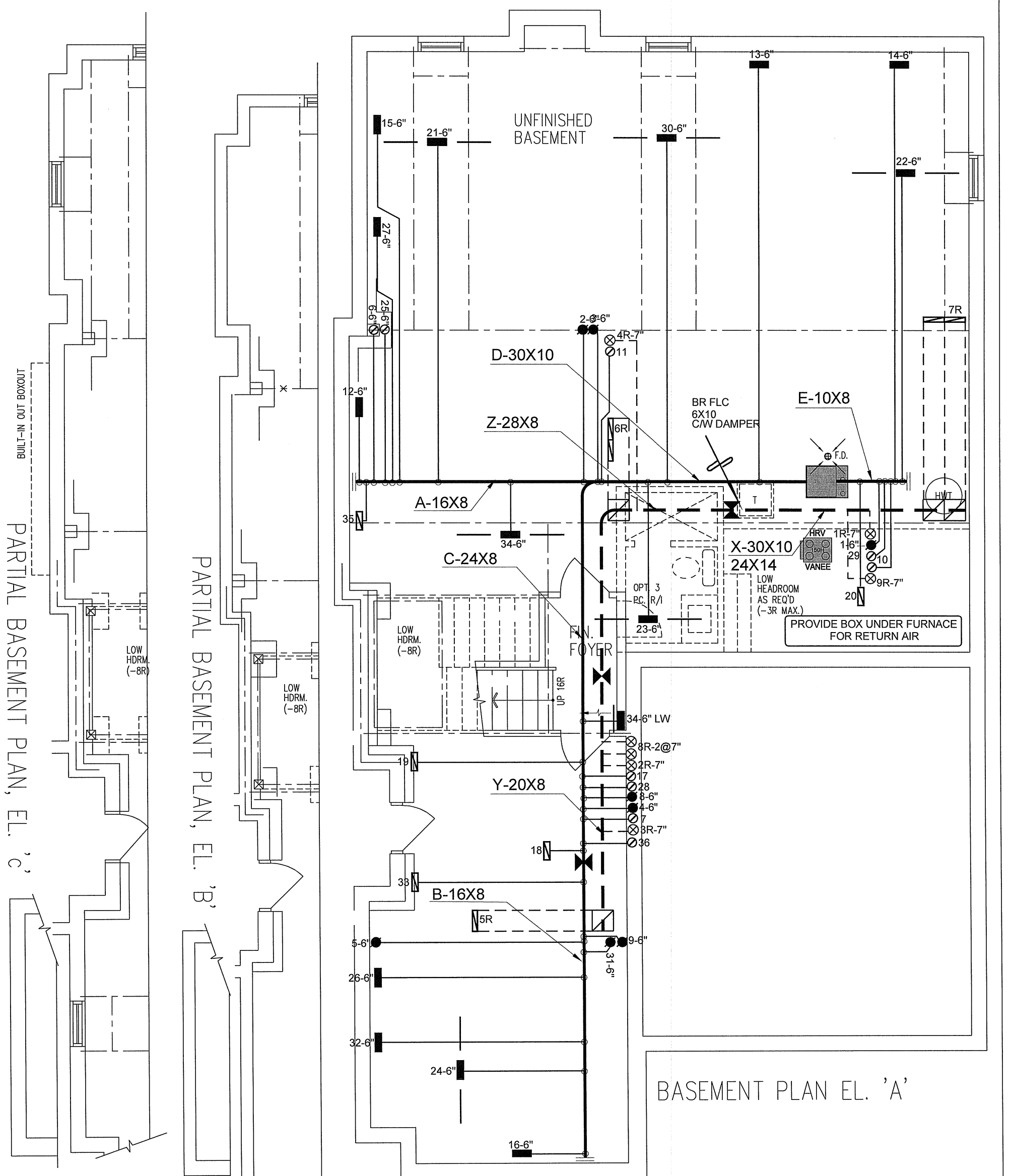
Air Infiltration Residential Load Calculator

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):	7.92			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	1516.5			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa. 3.57	2021.6 cm ² ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply 45.0	Total Exhaust 45.0		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):		0.370		
Cooling Air Leakage Rate (ACH/H):		0.124		

TYPE: 4204
LO# 96511

BROOKVALLEY - OPT 5 BED



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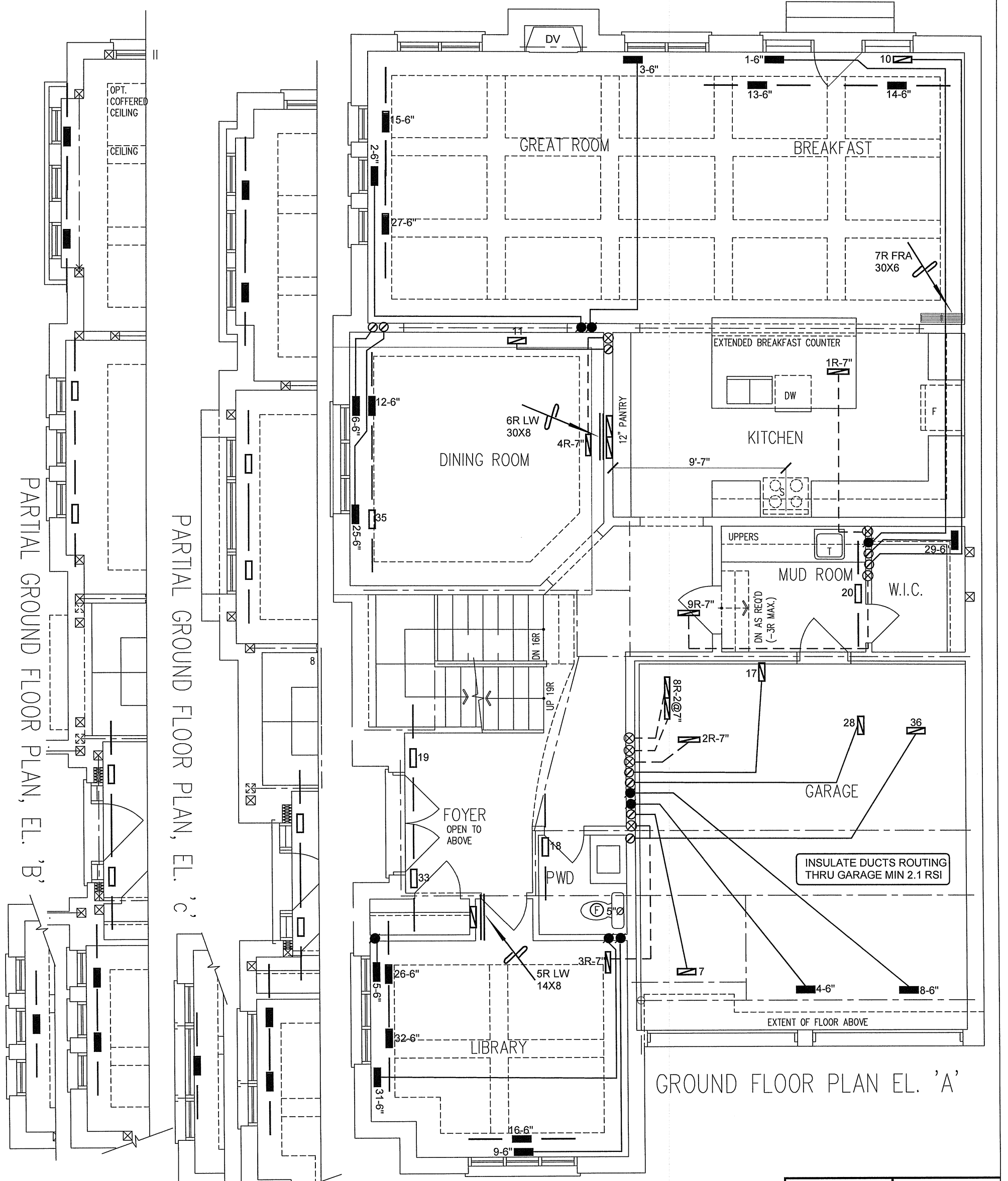
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

LOD	CSA-F280-12
WOD	PACKAGE A1

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

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GOLD PARK HOMES			MAKE LENNOX		3RD FLOOR			BASEMENT HEATING LAYOUT		
Project Name PINE VALLEY PH 2 VAUGHAN, ONTARIO			MODEL ML196UH110XE60C		2ND FLOOR	17	6	5		
OPT 5 BED BROOKVALLEY			INPUT 110	MBTU/H	1ST FLOOR	13	3	2	Date MAY/2022	
4204			OUTPUT 107.2	MBTU/H	BASEMENT	6	1	0	Scale 3/16" = 1'-0"	
3646 sqft			COOLING 5.0	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 1995	cfm @ 0.6" w.c.						LO# 96511



GROUND FLOOR PLAN EL. 'A'

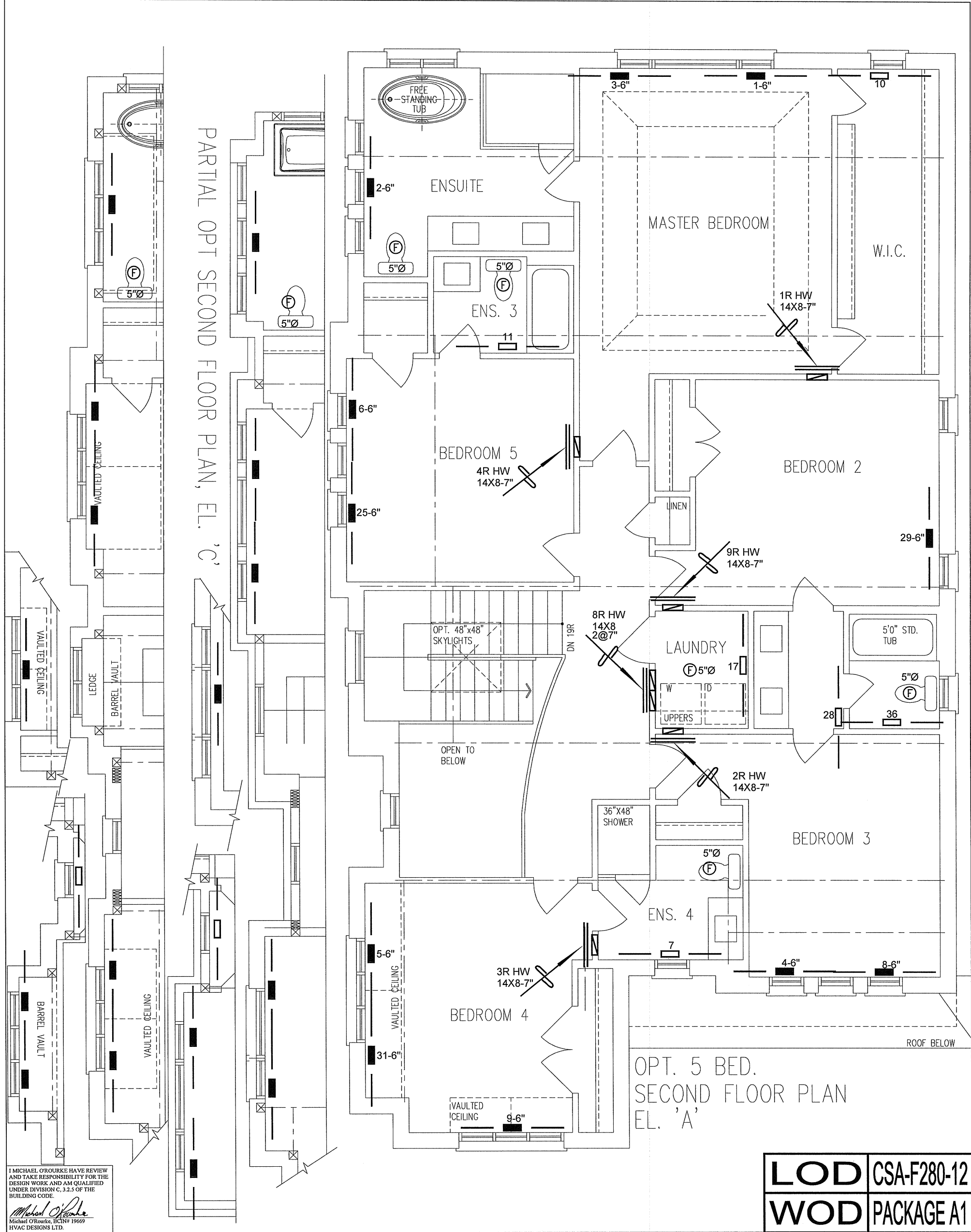
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Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

LOD	CSA-F280-12
WOD	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
	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		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.	Date MAY/2022	
PINE VALLEY PH 2 VAUGHAN, ONTARIO			Scale 3/16" = 1'-0"	
OPT 5 BED BROOKVALLEY			BCIN# 19669	
4204			LO# 96511	
3646 sqft				



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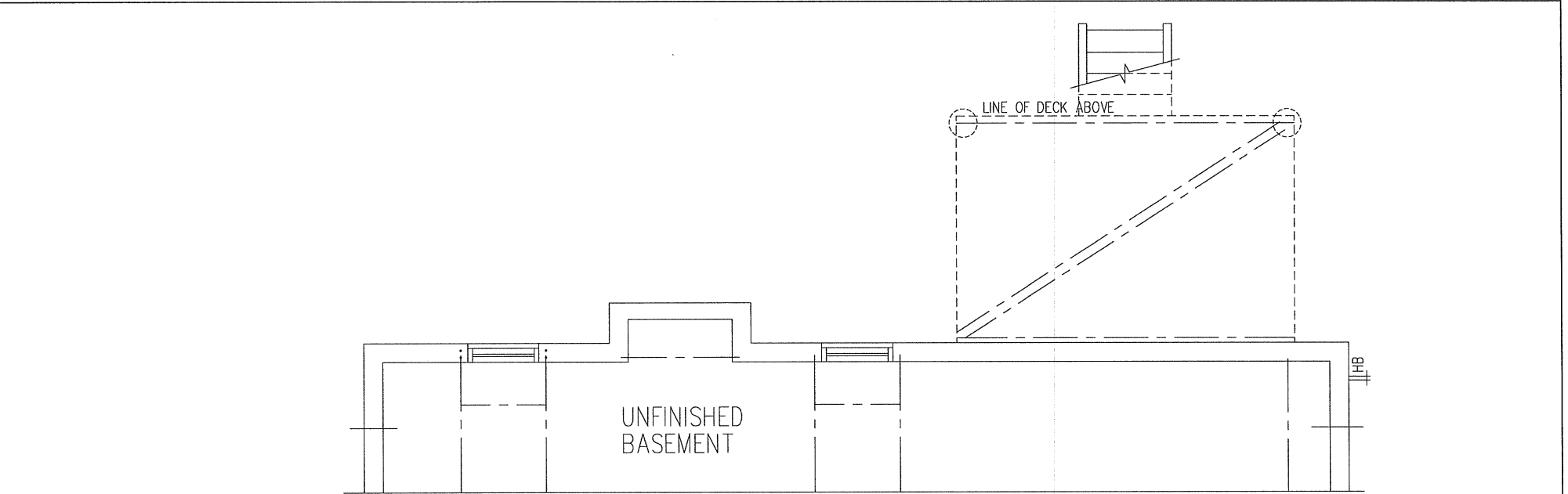
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LOD	CSA-F280-12
WOD	PACKAGE A1

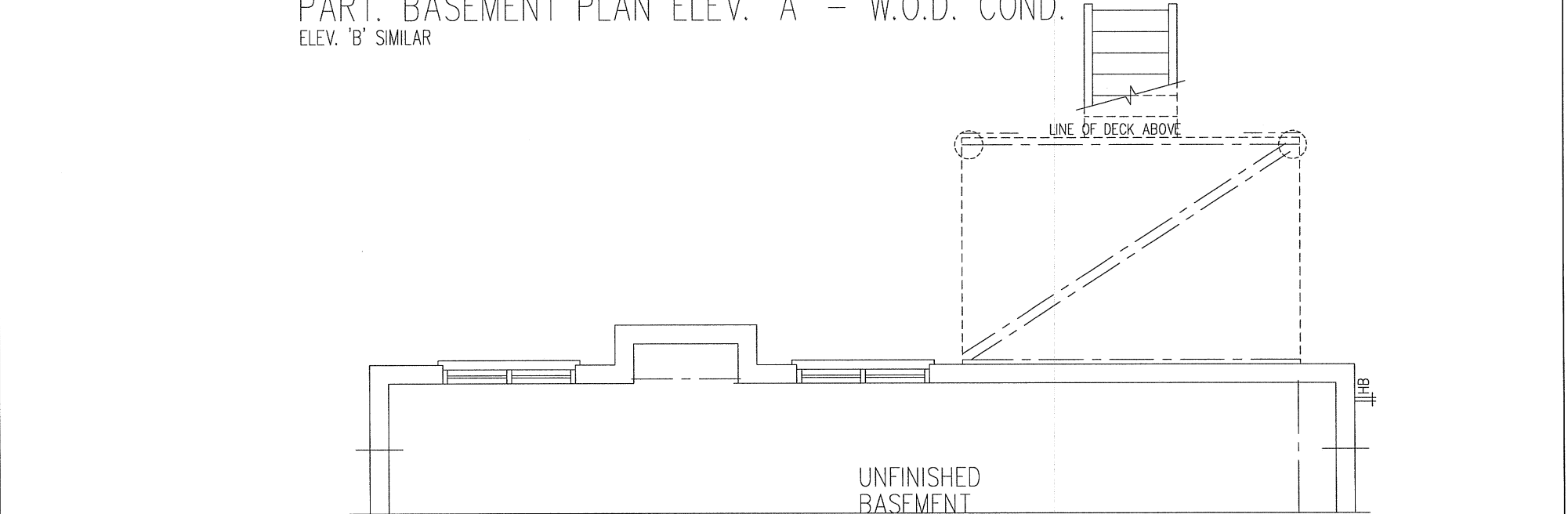
HVAC LEGEND							3.		
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	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS	

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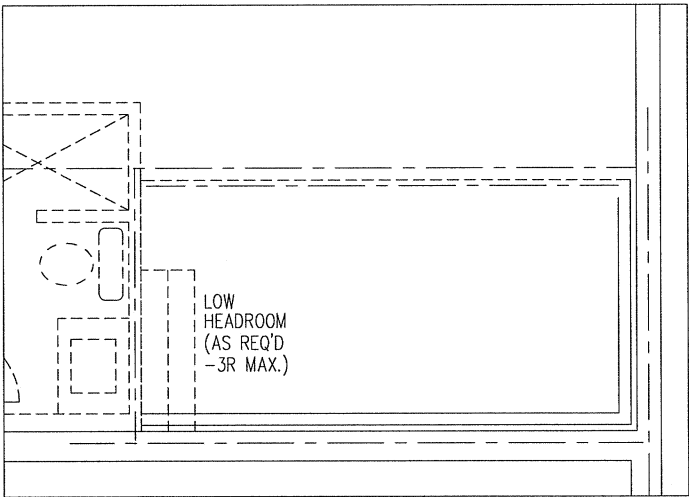
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GOLD PARK HOMES			SECOND FLOOR HEATING LAYOUT	
Project Name			Date	MAY/2022
PINE VALLEY PH 2 VAUGHAN, ONTARIO			Scale	3/16" = 1'-0"
OPT 5 BED BROOKVALLEY 4204			BCIN# 19669	
3646 sqft			LO#	96511



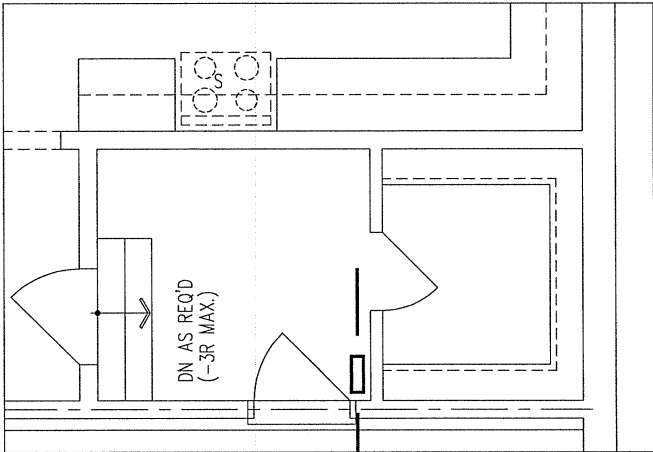
PART. BASEMENT PLAN ELEV. 'A' – W.O.D. COND.
ELEV. 'B' SIMILAR



PART. BASEMENT PLAN ELEV. 'A' – L.O.D. COND.
ELEV. 'B' SIMILAR



PART. BASEMENT PLAN EL. 'A' FOR
-2R/3R SUNKEN MUDROOM



PART. GROUND FLOOR PLAN EL. 'A'
FOR -2R/3R SUNKEN MUDROOM

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LOD	CSA-F280-12
WOD	PACKAGE A1

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GOLD PARK HOMES			STRIP PLAN HEATING LAYOUT	
Project Name PINE VALLEY PH 2 VAUGHAN, ONTARIO			Date	MAY/2022
OPT 5 BED BROOKVALLEY			Scale	3/16" = 1'-0"
4204			BCIN# 19669	
3646 sqft		LO#	96511	