

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			Lot:	
S38-	20		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	gn activities	1		
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	ad, Suite 202		Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail	
Mississauga	L4T 0A4	Ontario	hvac@gtades	signs.ca
Telephone number (905) 671-9800	Fax number		Cell number	
C. Design activities undertaken by individual identified in S	Section B. [Bu	ilding Code Table 3	3.5.2.1 of Division C]	
☐ House ☑ HVAC – H	House		☐ Building Structural	
☐ Small Buildings ☐ Building S			☐ Plumbing – House	
-	Lighting and Po	wer	☐ Plumbing – All Building:	s
☐ Complex Buildings ☐ Fire Protect			☐ On-site Sewage System	
Description of designer's work Mo	del Certification	1	Project #:	PJ-00041
			Layout #:	JB-08344
Heating and Cooling Load Calculations Main		Builder	Bayview Wellingto	
Air System Design Alternate		Project	Green Valley Eas	st
Residential mechanical ventilation Design Summary Area Sq ft: Residential System Design per CAN/CSA-F280-12	3262	Model	S38-20	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer			. we.kuge / ki	
l David DaCosta	declare that (choose one as appro	priate):	
(print name)	•		,	
(1				
☐ I review and take responsibility for	the design work	on behalf of a firm regi	stered under subsection	
3.2.4 Division C of the Building Co	de. I am qualifie	d, and the firm is registe	ered, in the appropriate	
classes/categories. Individual BCIN			TOWN OF BRADFORD WEST	GWILLIMBURY
Individual BOIN			BUILDING DEPARTMENT PLANS EXAMINED	
Firm BCIN:			ONTARIO BUILDING CODE A DATE: 2022-09-29	PPLIES
	r the design and	am qualified in the app		
"other designer" under subsection	3.2.5 of Division	C, of the Building Cod	e	
Individual BCIN	329	64		
Basis for exemp	otion from registr	ration:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from th	e registration an	d qualification requirem	nents of the Building Code.	
Basis for exemp	otion from registr	ration and qualification:		
I certify that:				
The information contained in this schedule is true to the best of r	ny knowledge.			
I have submitted this application with the knowledge and consen				
		Mare Sto		
July 19, 2022				.
Date		Signature of De	signer	

NOTE:

Page 1

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 qualifications under Subsections 3.2.4. and 3.2.5.of Division C.

Schedule 1 does not require to be completed a holder of a license, temporay license, or a certificate of authorization, issed 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 licence to
practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

REVIEWED



2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@gtadesigns.ca

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Heat loss and gain calcul	ation summary sheet CSA-F280-M12 Standard
These documents issued for the use of Ba	yview Wellington Layout No.
and may not be used by any other persons without authorization. Document	s for permit and/or construction are signed in red. JB-08344
Building	Location
Address (Model): S38-20	Site: Green Valley East
Model:	Lot:
City and Province: Bradford	Postal code:
Calculation	s based on
Dimensional information based on:	VA3 DesignOct/2021
Attachment: Detached	Front facing: East/West Assumed? Yes
No. of Levels: 3 Ventilated? Included	Air tightness: 1961-Present (ACH=3.57) Assumed? Yes
Weather location: Bradford	Wind exposure: Sheltered
HRV? VanEE V150H75NS	Internal shading: Light-translucent Occupants: 5
Sensible Eff. at -25C 60% Apparent Effect. at -0C 80%	Units: Imperial Area Sq ft: 3262
Sensible Eff. at -0C 75%	
Heating design conditions	Cooling design conditions
Outdoor temp -9.4 Indoor temp: 72 Mean soil temp: 48	Outdoor temp 86 Indoor temp: 75 Latitude: 44
Above grade walls	Below grade walls
Style A: As per OBC SB12 Package A1 R 22	Style A: As per OBC SB12 Package A1 R 20ci
Style B:	Style B:
Style C:	Style C:
Style D:	Style D:
Floors on soil	Ceilings
Style A: As per Selected OBC SB12 Package A1	Style A: As per Selected OBC SB12 Package A1 R 60
Style B:	Style B: As per Selected OBC SB12 Package A1 R 31
Exposed floors	Style C:
Style A: As per Selected OBC SB12 Package A1 R 3	1 Doors
Style B:	Style A: As per Selected OBC SB12 Package A1 R 4.00
Windows	Style B:
Style A: As per Selected OBC SB12 Package A1 R 3.5	5 Style C:
Style B:	Skylights
Style C:	Style A: As per Selected OBC SB12 Package A1 R 2.03
Style D:	Style B:
Attached documents: As per Shedule 1 Heat Loss	Gain Caculations based on CSA-F280-12 Effective R-Values
Notes: Residential New	Construction - Forced Air
Calculations	performed by
Name: David DaCosta	Postal code: L4T 0A4
Company: gtaDesigns Inc.	Telephone: (905) 671-9800
Address: 2985 Drew Road, Suite 202	Fax:
City: Mississauga	E-mail hvac@gtadesigns.ca



Bayview Wellington

Date:

Builder:

Air System Design

SB-12 Package A1 July 19, 2022

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@gtadesigns.ca

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under Division C subsection 3.2.5. of the

Project #

PJ-00041 JB-08344

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Building Code. System 1 Mana Alexander **Green Valley East** S38-20 Individual BCIN: 32964 David DaCosta Layout # Project: Model: AIR DISTRIBUTION & PRESSURE BOILER/WATER HEATER DATA: DESIGN LOAD SPECIFICATIONS FURNACE/AIR HANDLER DATA: A/C UNIT DATA: Level 1 Net Load 23,844 btu/h **Equipment External Static Pressure** 0.5 "w.c. Make Make 3.0 Ton Amana Type Amana AMEC960803BNA Level 2 Net Load 22,811 btu/h **Additional Equipment Pressure Drop** 0.225 "w.c. Model Model Cond.-3.0 Level 3 Net Load 21.835 btu/h **Available Design Pressure** 0.275 "w.c. Input Btu/h 80000 Input Btu/h Coil --3.0 Return Branch Longest Effective Length 76800 Level 4 Net Load 0 btu/h 300 ft Output Btu/h Output Btu/h 0.50 " W C ΔWH 68.490 btu/h 0.138 "w.c. Min.Output Btu/h Total Heat Loss R/A Plenum Pressure E.s.p. Blower DATA: **Total Heat Gain** 31,950 btu/h S/A Plenum Pressure 0.14 "w.c. Water Temp deg. F. W2 Heating Air Flow Proportioning Factor 0.0171 cfm/btuh AFUE Blower Speed Selected: ECM 96% **Blower Type** 42203 ft³ **Building Volume Vb** Cooling Air Flow Proportioning Factor 0.0367 cfm/btuh Aux. Heat (Brushless DC OBC 12.3.1.5.(2)) Ventilation Load 1.398 Btuh. SB-12 Package Package A1 Heating Check 1172 cfm 1172 cfm R/A Temp 70 dea. F. Cooling Check Ventilation PVC 79.5 cfm S/A Temp 131 deg. F. Supply Branch and Grill Sizing Diffuser loss Selected cfm> 1172 cfm **Cooling Air Flow Rate** 1172 cfm 0.01 "w.c. Temp. Rise>>> 61 deg. F. Level 1 Level 2 S/A Outlet No. 1 2 5 10 11 12 13 14 15 Room Use BASE BASE BASE BASE BASE KIT KIT LIV/DIN MUD FOY PWD STUDY GRT GRT Btu/Outlet 4769 4769 4769 4769 4769 2334 2334 2947 2947 1553 3780 764 1695 2228 2228 **Heating Airflow Rate CFM** 82 82 82 82 82 40 40 50 50 27 65 13 29 38 38 Cooling Airflow Rate CFM 18 18 18 18 18 89 89 58 58 50 99 78 78 14 0.13 **Duct Design Pressure** 0.13 **Actual Duct Length** 42 36 14 21 28 41 46 36 25 36 27 22 30 44 **Equivalent Length** 130 120 110 110 120 70 70 70 70 70 70 70 70 70 170 140 100 120 90 110 110 80 90 110 70 70 70 70 Total Effective Length 172 156 124 131 148 70 70 70 70 70 70 70 70 70 211 186 136 145 97 146 137 102 120 154 70 70 70 70 **Adjusted Pressure** 0.08 0.08 0.10 0.10 0.09 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.06 0.07 0.10 0.09 0.13 0.09 0.09 0.13 0.11 0.08 0.19 0.19 0.19 0.19 **Duct Size Round** 5 **Outlet Size** 4x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 3x10 3x10 3x10 4x10 3x10 3x10 4x10 Trunk D В С G D Level 3 Level 4 S/A Outlet No. 16 17 19 20 21 22 23 24 25 26 27 18 28 Room Use P.RFD P.RFD wc. FNS FNS 2 RFD 2 BFD 3 BFD 3 FNS 3 WIC 4 RFD 4 LAUND WIC. Btu/Outlet 1809 1809 447 2211 694 1631 3301 3301 421 1066 3647 685 813 **Heating Airflow Rate CFM** 31 31 38 12 28 56 56 18 62 12 14 47 47 13 42 68 68 Cooling Airflow Rate CFM 8 33 25 86 12 7 3 0.13 **Duct Design Pressure** 0.13 58 47 52 **Actual Duct Length** 54 61 45 41 33 38 33 37 **Equivalent Length** 120 180 170 140 130 110 120 110 140 100 140 120 130 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 178 177 151 173 192 153 70 70 Total Effective Length 234 224 201 148 165 138 167 70 70 70 70 70 70 70 70 70 70 70 70 70 Adjusted Pressure 0.07 0.06 0.06 0.06 0.07 0.09 0.08 0.09 0.08 0.09 0.07 0.08 0.08 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 **Duct Size Round** 5 5 5 3 6 6 6 3 Outlet Size 3x10 3x10 3x10 3x10 3x10 3x10 4x10 4x10 3x10 3x10 4x10 3x10 3x10 4x10 Trunk D G R Return Branch And Grill Sizing **Grill Pressure Loss** 0.02 "w.c Return Trunk Duct Sizing Supply Trunk Duct Sizing R/A Inle Duc

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Inlet Air Volume CFM	204	393	170	105	150	150																		
Duct Design Pressure	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	Drop	1172	0.0	6 16	5 24x1	0	Α	1173	0.06	16.5	32x8	24x10	
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Total Effective Length	169	180	191	200	212	177	50	50	50	50	50	X						D	151	0.07	7.5	8x8	87	
Adjusted Pressure	0.07	0.07	0.06	0.06	0.06	0.07	0.24	0.24	0.24	0.24	0.24	w						E	250	0.06	9.5	10x8	127	
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Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800

e-mail hvac@gtadesigns.ca

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Heat Loss Second Conductive Seco	otal Conductive Meat Gain Heat Loss Heat Gain James Gain </td <td>Level HL Total Level HG Total Rur Rur Rur R</td> <td>Appliances Loads Duct and Pipe loss 23,844 2,507 I Level 2 In ft. exposed wall A In ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Iet exposed walls A let exposed walls A let exposed walls A Exposed Ceilings A</td> <td>R-Values L. 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65</td> <td>rcent 5399 10% al HL for per room HG per room x 1.3 soss Gain 22.93 11.62 22.93 22.50 22.93 22.50 40.90 23.66 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37</td> <td>35 A B 1.0 261 Area A B Fir 385 Loss</td> <td>Gain 1951</td> <td>55 A B 11.0 503 Area A B Fir 605 Loss 52 11</td> <td>s Gain 192 604</td> <td>11 A B 13.0 24 Are: A B Fir 143 Los</td> <td>; Gain</td> <td>28 A B 12.0 96 Ar A B Fi 336 Lc</td> <td>r Gain 527 686</td> <td>6 A B 11.0 37 Area A B Fir 66 Loss</td> <td>Gain 9 225</td> <td>12 A B 11.0 140 Area A B Fir 132 Loss</td> <td>38 Gain 585</td> <td>15 A B 10 19 Area 5 A B Fir 15 15 15 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18</td> <td>B 11.0 Area A B Fir T Loss 828 675</td> <td></td> <td>B .0 Area A B Fir</td> <td></td> <td>B 11.0 Area A B Fir</td> <td>11.0</td> <td>3 Area A 3 Fir</td>	Level HL Total Level HG Total Rur Rur Rur R	Appliances Loads Duct and Pipe loss 23,844 2,507 I Level 2 In ft. exposed wall A In ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Iet exposed walls A let exposed walls A let exposed walls A Exposed Ceilings A	R-Values L. 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	rcent 5399 10% al HL for per room HG per room x 1.3 soss Gain 22.93 11.62 22.93 22.50 22.93 22.50 40.90 23.66 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37	35 A B 1.0 261 Area A B Fir 385 Loss	Gain 1951	55 A B 11.0 503 Area A B Fir 605 Loss 52 11	s Gain 192 604	11 A B 13.0 24 Are: A B Fir 143 Los	; Gain	28 A B 12.0 96 Ar A B Fi 336 Lc	r Gain 527 686	6 A B 11.0 37 Area A B Fir 66 Loss	Gain 9 225	12 A B 11.0 140 Area A B Fir 132 Loss	38 Gain 585	15 A B 10 19 Area 5 A B Fir 15 15 15 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18	B 11.0 Area A B Fir T Loss 828 675		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir
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Case 3 x 0.03 0.06 102 128 129 57 34 8 83 56 17 15 37 39 98 102	Heat Gain People 239 Appliances Loads 1 = .25 percent 5399 1.0 1350 1.0 1350 1.0 1350	evel HL Total evel HG Total Rur Rur I I Foundation Concotal Conductive Air Leakage	Appliances Loads Duct and Pipe loss 23,844 2,507 Level 2 In ft. exposed wall A In t. exposed wall B Ceiling height Floor area Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors let exposed walls A let exposed walls A Exposed Ceilings B Exposed Heat Loss Heat Loss/Gain Heat Loss/Gain	R-Values L. 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65	rcent 5399 10% al HL for per room HG per room x 1.3 20.35 Gain 22.93 11.62 22.93 22.56 22.93 22.56 22.93 22.56 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37 2.73 0.17 x 0.5031 0.0519 0.03 0.06	KIT 35 A B 1.0 261 Area A B Fir Loss 66 1513 319 1525	Gain 3 1951 5 206	55 A B 11.0 503 Area A B Fir 605 Loss 52 11	s Gain 192 604 643 357 643 962	11 A B 13.0 24 Area A B Fir 143 Los	Gain 127 5 183 7	28 A B 12.0 96 Ar A A B FI 336 Lc 23 8 28 9 285	sea r	6 A B 11.0 37 Area A B Fir 66 Loss 50 10 22	Gain 3 225 3 36	12 A B 11.0 140 Area A B Fir 132 Loss 106 507	38 Gain 2 585 3 3 4 68 3 4 654	15 A B 1.0	B 11.0 Area A B Fir Fir 1 Loss 828 675 2211 3		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir
Heat Gain People 239	Appliances Loads 1 = 25 percent 5399 1.0 1350 1	evel HL Total evel HG Total Rur Rur I I Foundation Concotal Conductive Air Leakage	Appliances Loads Duct and Pipe loss 23,844 2,507 I Level 2 In ft. exposed wall A In ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors I et exposed walls A Let exposed walls B Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings B Exposed Floors ductive Heatloss Heat Loss Heat Case Heat Gain Heat Loss/Gain Case 2	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	rcent 5399 10% al HL for per room HG per room x 1.3 1.2 2.93 2.93 2.93 2.93 2.93 2.93 2.93 2	KIT 35 A B 1.0 261 Area A B Fir Loss Loss 1525 1525 1525	Gain 3 1951 5 206 3 2157 3 112	55 A B 11.0 503 Area A B Fir 605 Loss 52 11 553 26	s Gain 192 604 643 357 643 962 930 50	11 A B 13.0 24 Area A B Fir 143 Los 21 122	Gain 5.27 5 5.83 7	28 A B 12.0 96 Ar A A B FI 336 Lc 23 8 28 9 285	sea r Sain Sain Sain Sain Sain Sain Sain Sain	6 A B 11.0 37 Area A B Fir 66 Loss 0 10 22 7 7 5 56 26	Gain 3 225 3 36 7 261 1 14	12 A B 11.0 140 Area A B Fir 132 Loss 106 507	38 Gain 2 585 3 3 4 654 34	15 A B 1.0	B 11.0 Area A B Fir Fir 1.0 Loss 828 675 2211 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir
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Appriances Loads 1=.25 percent 3399 1.0 1300 1.0	Little and Mine loss 1 10% 1 1 1 1 1 1 1 1 1	Rur Rur Rur E E E E E E E E E E E E E E E E E E E	Appliances Loads Duct and Pipe loss 23,844 2,507 I Level 2 In ft. exposed wall A In ft. exposed wall B Celling height Floor area Exposed Cellings A Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors let exposed walls B Exposed Cellings A let exposed walls B Exposed Cellings A let exposed walls B Exposed Cellings A let exposed walls B Exposed Cellings B Exposed Floors ductive Heatloss Heat Loss Heat Gain Heat Loss/Gain Case 1 Case 2 Case 3 Heat Gain People	R-Values Lu 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	rcent 5399 10% al HL for per room HG per room x 1.3 20.33 11.62 22.93 22.50 22.93 22.56 22.93 22.56 22.93 22.56 22.93 22.56 40.90 23.66 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37 2.73 0.17 x 0.5031 0.0519 0.003 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06	KIT 35 A B 1.0 261 Area A B Fir 385 Loss 1513 1525 1526 1626 1513	Gain 3 1951 5 206 3 2157 3 112 2 128	55 A B 11.0 503 Area A B Fir 605 Loss 52 11 553 26	S Gain 192 604 5543 357 5636 962 670 50	11 A B 13.0 24 Area A B Fir 143 Los 21 122	Gain 5.27 5 5.83 7	28 A B 12.0 96 Ar A A B FI 336 Lc 23 8 28 9 285	sea r Sain Sain Sain Sain Sain Sain Sain Sain	6 A B 11.0 37 Area A B Fir 66 Loss 0 10 22 7 7 5 56 26	Gain 3 225 3 36 7 261 1 14	12 A B 11.0 140 Area A B Fir 132 Loss 106 507 1103 555 37	38 Gain 24 585 3 68 34 654 34	15 A B 10	11.0 Area A B Fir 11.0 Area A B Fir 11.0 Area A B Fir 11.0 Area A B B Fir 11.0 Area A B B B B B B B B B B B B B B B B B B		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir
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Duct and Pipe loss 10%	Level HL 10tal 22,811 10tal HL 10t Per room 4669 5894 1553 3/80 764 1695 4456 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rur Rur E E E E E E E E E E E E E E E E E E E	Appliances Loads Duct and Pipe loss 23,844 2,507 Level 2 In ft. exposed wall A In ft. exposed wall B Celling height Floor area Exposed Cellings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Iet exposed walls A Iet exposed walls A Iet exposed Cellings A Exposed Cellings B Exposed Cellings B Exposed Floors ductive Heatloss Heat Gain Heat Loss Heat Gain Heat Case 1 Case 2 Loss 3 Heat Gain People Appliances Loads Duct and Pipe loss	R-Values L. 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 7.65 29.80	rcent 5399 10% al HL for per room HG per room x 1.3 1 22.93 22.93 22.50 22.93 22.50 40.90 23.66 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37 2.73 0.17 x 0.5031 0.0519 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89	35 A B 1.0 261 Area A B Fir 385 Loss 1513 19 1525 1526 102 11.0	Gain 3 1951 5 206 3 2157 3 112 2 128 1350	55 A B 11.0 503 Area A B Fir 605 Loss 52 11 11 1.0	s Gain 192 604 3543 357 3636 962 330 50 129 57 1350	11 A B 13.0 24 Are: A B Fir 143 Los	Gain 127 5 183 7 110 13	28 A B 12.0 96 AA A B F1 336 Lc 23 8 8 28 9 285	ea sea sea sea sea sea sea sea sea sea s	6 A B 11.0 37 Area A B Fir 66 Loss 10 10 22 7 4 56 26 49 49	Gain 225 3 36 7 261 14 7 15	12 A B 11.0 140 Area A B Fir 132 Loss 596 596 106 507 1103 555 37 1.0	38 Gain 585 68 32 654 34 39 1350 1	15 A B 1.0 B	11.0 Area A B Fir 11.0 Area A B Fir 11.0 Area A B Fir 11.0 Area A B B Fir 11.0 Area A B B B B B B B B B B B B B B B B B B		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir
Appliances Loads 1 = 25 percent 5399 1.0 1350 1.0 1350 1.0 1350 1.0 1350		Rur Rur Rur E E E E E E E E E E E E E E E E E E E	Appliances Loads Duct and Pipe loss 23,844 2,507 I Level 2 In ft. exposed wall A In ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors I et exposed walls A Let exposed walls B Exposed Ceilings A Exposed Ceilings A Exposed Ceilings A Exposed Ceilings B Exposed Floors ductive Heatloss Heat Loss Heat Case Heat Gain Heat Loss/Gain Case 2	R-Values L 3.55 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 27.65 29.80	rcent 5399 10% al HL for per room HG per room x 1.3 1.2 2.93 2.93 2.93 2.93 2.93 2.93 2.93 2	KIT 35 A B 1.0 261 Area A B Fir Loss Loss 1525 1525 1525	Gain 3 1951 5 206 3 2157 3 112	55 A B 11.0 503 Area A B Fir 605 Loss 52 11 553 26	s Gain 192 604 643 357 643 962 930 50	11 A B 13.0 24 Area A B Fir 143 Los 21 122	Gain 5.27 5 5.83 7	28 A B 12.0 96 Ar A A B FI 336 Lc 23 8 28 9 285	sea r Sain Sain Sain Sain Sain Sain Sain Sain	6 A B 11.0 37 Area A B Fir 66 Loss 0 10 22 7 7 5 56 26	Gain 3 225 3 36 7 261 1 14	12 A B 11.0 140 Area A B Fir 132 Loss 106 507	38 Gain 2 585 3 3 4 654 34	15 A B 1.0	B 11.0 Area A B Fir Fir 1.0 Loss 828 675 2211 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	Area A A B Fir
Duct and Pipe loss 10%	Sever III. 10731 12731 10731 III. 10731	Rur Rur E E E E E E E E E E E E E E E E E E E	Appliances Loads Duct and Pipe loss 23,844 2,507 Level 2 In ft. exposed wall A In ft. exposed wall B Celling height Floor area Exposed Cellings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Iet exposed walls A Iet exposed walls A Iet exposed Cellings A Exposed Cellings B Exposed Cellings B Exposed Floors ductive Heatloss Heat Gain Heat Loss Heat Gain Heat Case 1 Case 2 Loss 3 Heat Gain People Appliances Loads Duct and Pipe loss	R-Values L. 3.55 3.55 3.55 1.99 2.03 4.00 17.03 8.50 59.22 7.65 29.80	rcent 5399 10% al HL for per room HG per room x 1.3 1 22.93 22.93 22.50 22.93 22.50 40.90 23.66 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37 2.73 0.17 x 0.5031 0.0519 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89	35 A B 1.0 261 Area A B Fir 385 Loss 1513 19 1525 1526 102 11.0	Gain 3 1951 5 206 3 2157 3 112 2 128 1350	55 A B 11.0 503 Area A B Fir 605 Loss 52 11 11 1.0	s Gain 192 604 3543 357 3636 962 330 50 129 57 1350	11 A B 13.0 24 Are: A B Fir 143 Los	Gain 127 5 183 7 110 13	28 A B 12.0 96 AA A B F1 336 Lc 23 8 8 28 9 285	ea sea sea sea sea sea sea sea sea sea s	6 A B 11.0 37 Area A B Fir 66 Loss 10 10 22 7 4 56 26 49 49	Gain 225 3 36 7 261 14 7 15	12 A B 11.0 140 Area A B Fir 132 Loss 596 596 106 507 1103 555 37 1.0	38 Gain 585 68 32 654 34 39 1350 1	15 A B 1.0 B	11.0 Area A B Fir 11.0 Area A B Fir 11.0 Area A B Fir 11.0 Area A B B Fir 11.0 Area A B B B B B B B B B B B B B B B B B B		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir
Duct and Pipe loss 10%		Level HL Total Level HG Total Rur Rur N N I E Foundation Conc otal Conductive Air Leakage Ventilation	Appliances Loads Duct and Pipe loss 23,844 2,507 I Level 2 In ft. exposed wall A In ft. exposed wall B Celling height Floor area Exposed Ceilings A Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors I et exposed walls B Exposed Ceilings A let exposed walls B Exposed Ceilings A let exposed walls B Exposed Ceilings B Exposed Floors ductive Heatloss Heat Gain Heat Loss Heat Gain Heat Case 1 Case 2 Case 3 Heat Gain People Appliances Loads Duct and Pipe loss 22,811	R-Values Lu 3.55 3.55 3.55 3.55 3.55 4.00 17.03 8.50 59.22 27.65 29.80	rcent 5399 10% al HL for per room HG per room x 1.3 2.93 11.62 22.93 22.56 22.93 22.56 22.93 22.56 22.93 22.56 40.90 23.66 40.10 88.23 20.35 2.75 4.78 0.65 9.58 1.29 1.37 0.64 2.94 1.37 2.73 0.17 x 0.5031 0.0519 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.88 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89 0.03 0.06 17.58 11.89	35 A B 1.0 261 Area A B Fir 385 Loss 1513 19 1525 1526 102 11.0	Gain 3 1951 5 206 3 2157 3 112 2 128 1350	55 A B 11.0 503 Area A B Fir 605 Loss 52 11 11 1.0	S Gain 192 604 343 357 343 962 336 962 330 50 129 57 1350	11 A B 13.0 24 Are: A B Fir 143 Los	Gain 1227 5 183 7 110 13 130 134	28 A B 12.0 96 Ar A B FI 336 Lc 23 8 28 9 285	sea 7	6 A B 11.0 37 Area A B Fir 66 Loss 4 56 26 4 49 2 25 5 1	Gain 225 3 36 7 261 14 7 15	12 A B 11.0 140 Area A B Fir 132 Loss 596 596 106 507 1103 555 37 1.0	Gain 585 3 68 32 654 34 39 1350 1	15 A B 10	B 11.0 Area A B Fir		B .0 Area A B Fir		B 11.0 Area A B Fir	11.0	3 Area A 3 Fir

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under

68,490 btu/h Total Heat Loss Total Heat Gain 31,950 btu/h

Division C subsection 3.2.5. of the Building Code. Individual BCIN:

Mana Mate

David DaCosta

SB-12 Package Package A1



Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800

e-mail hvac@gtadesigns.ca

														man mvac										
		Builder: Bayview Well	ington		Date:		July 19, 2	022		_			w 	ather Data	Bra	dford	44	-9.4 86	22	48.2		Proje	ct#	Page 5
2012 OBC		Project: Green Valle	y East	_ Me	odel:		S38-20	1		_	Sys	em 1	н	eat Loss ^T	81.4 deg. F	Ht g	ain ^T	11 de	g. F	GTA: 3	262	Layo		JB-08344
Run ft. e	Level 3 exposed wall A exposed wall B		P.BED 31 A B)	WC 4 A B		ENS 25 A B		ENS 7 A B	2	14 A B	D 2	43 A B	ED 3	ENS A B		WIC 8 A B		BED 33 A		LAUND 7 A B		11 A B	IC
	Ceiling height Floor area		11.0 338 Area		9.0 23 Area		9.0 156 Area		9.0 62 Area		9.0 228 Area		11.0 337 Area	1	9.0 69 Area	9. 3	0 8 Area		1.0 216 Area		9.0 57 Area		9.0 93 Area	
	osed Ceilings A		338 A B		23 A B		156 A B		62 A B		228 A B		337 A B		69 A B		8 A B		216 A B		57 A B		93 A	
	sed Ceilings B Exposed Floors		В Flr		В Fir		В Flr		В Flr		B Flr		232 Flr		69 Flr	3	8 Flr		4 Flr		В Flr		B Flr	
Gro Gro	oss Exp Wall A oss Exp Wall B		341		36	:	225		63		126		473			7	2	3	363		63		99	
	Components	R-Values Loss Gain		Gain	Loss	Gain	Loss	Gain	Loss	Gain	Los		Los	s Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss (Gain	Loss	Gain
	North Shaded East/West	3.55 22.93 11.62 3.55 22.93 29.56	32 734	946	7 161	207	19 436	562	7 16	1 81	16	67 18	40	917 1182		1	2 275	355	36 825	1064				
Exir	South isting Windows	3.55 22.93 22.50 1.99 40.90 23.66											20	459 450							7 161	158		
	Skylight	2.03 40.10 88.23																						
Net ex	Doors xposed walls A	4.00 20.35 2.75 17.03 4.78 0.65		200	29 139	19	206 985	133	56 26	8 36	110	26 7	413 1	974 267		6	0 287	39 3	327 1563	211	56 268	36	99 4	73 6-
	xposed walls B osed Ceilings A	8.50 9.58 1.29 59.22 1.37 0.64		217	23 32	15	156 214	100	62 8	5 40	228	13 14	337	463 216	69 95	44 3	8 52	24 2	216 297	139	57 78	37	93 1	28 6
Expos	sed Ceilings B	27.65 2.94 1.37		- 17	25 52	10	130 21-	100	02	J 40		113									37 70	3,	33	20 0
eundation Conductiv	Exposed Floors ive Heatloss	29.80 2.73 0.17											232	534 39	69 188	12 3	8 104	6	4 11	1				
al Conductive	Heat Loss Heat Gain		2675	1362	331	240	1635	795	51	3 157		206		147 2154	283	56	718	424	2696	1415	507	230	6	01 12
Air Leakage H	Heat Loss/Gain	0.3189 0.0519	853		105	12	521	41	16			85 2		418 112	90		229		860		162	12	1	92
Ventilation	Case 1 Case 2	0.02 0.06 17.58 11.88																						
Не	Case 3	x 0.03 0.06 239		81 478	11	14	55	47	1	7 9	1	41 24		150 128 239	10	3	24	25	91	84 239	17	14		20
Арр	pliances Loads	1 =.25 percent 5399		476								23.								239				
Duct evel HL Total	t and Pipe loss 21,835	Total HL for per room	3619		447		2211		69	4	10	31		586 239 601	1 37		1 95		3647		685		8	13
Run ft. e	Level 4 exposed wall A exposed wall B Ceiling height Floor area		A B Area		A B Area		A B Area		A B Area		A B		A B	1	A B Area		A B Area		A B Area		A B Area		A B Area	
	osed Ceilings A		A		Α		A		A		A		A	•	A		A		Α		Α		Α	
E: Gro	osed Ceilings B Exposed Floors oss Exp Wall A oss Exp Wall B		B Fir		B Fir		B Flr		B Fir		B Flr		B Fir		B Flr		B Fir		B Flr		B Flr		B Fir	
		R-Values Loss Gain 3.55 22.93 11.62	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Los	Gain	Los	s Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss (Gain	Loss	Gain
	North Shaded East/West	3.55 22.93 11.62																						
				1																				
Exis	South sting Windows	3.55 22.93 22.50 1.99 40.90 23.66																						
Exis	sting Windows Skylight	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23																						
Net ex	Skylight Doors xposed walls A	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23 4.00 20.35 2.75 17.03 4.78 0.65																						
Net ex	Skylight Doors xposed walls A xposed walls B	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23 4.00 20.35 2.75																						
Net ex Net ex Expos Expos	sting Windows Skylight Doors xposed walls A xposed walls B osed Ceilings A osed Ceilings B	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23 4.00 20.35 2.75 17.03 4.78 0.65 8.50 9.58 1.29 59.22 1.37 0.64 27.65 2.94 1.37																						
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Net ex Net ex Expo: Expos Expo	sting Windows Skylight Doors xposed walls A xposed walls B beed Ceilings B Exposed Floors ive Heatloss Heat Loss Heat Gain Heat Loss/Gain Case 1 Case 2	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 83.62 4.00 20.35 2.75 17.03 4.78 0.65 8.50 9.58 1.29 59.22 1.37 0.64 27.65 2.94 1.37 29.80 2.73 0.17 0.0000 0.0519 0.000 0.066 17.58 11.88																						
Net ex Net ex Expor Expor Expor Economication Conductive tal Conductive Air Leakage H Ventilation	sting Windows Skylight Doors xposed walls A xposed walls B xposed Ceilings A ssed Ceilings B Exposed Floors Heat Cass Heat Case 1 Case 2 Case 3	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23 4.00 20.35 2.75 17.03 4.78 0.65 59.22 1.37 0.64 27.65 2.94 1.37 29.80 2.73 0.17 0.0000 0.0519 0.000 0.0519																						
Net ex Net ex Expoi Expoi Expoi Coundation Conductive Air Leakage H Ventilation Hea	sting Windows Skylight Doors xposed walls A xposed Ceilings A ssed Ceilings A ssed Ceilings A ssed Floors tye Heatloss Heat Loss Heat Loss Heat Loss Gase 1 Case 2 Case 3 at Gain People	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23 4.00 20.35 2.75 17.03 4.78 0.65 8.50 9.58 1.29 59.22 1.37 0.64 27.65 2.94 1.37 29.80 2.73 0.17 0.0000 0.051 0.000 0.056 17.58 11.88 x 0.03 0.06 12.59 percent 5399															D	_		/	_ \	A	/ E	
Net ex Net ex Expoi Expoi Expoi exit oundation Conductive tal Conductive Air Leakage H Ventilation Hea	sting Windows Skylight Doors xposed walls A xposed walls B sed Ceilings A sed Ceilings B Exposed Floors Heat Loss Heat Gain Gase 1 Case 2 Case 3 at Gain People	3.55 22.93 22.50 1.99 40.90 23.66 2.03 40.10 88.23 4.00 20.35 2.75 17.03 4.78 0.65 59.22 1.37 0.64 27.65 2.94 1.37 29.80 2.73 0.17 0.0000 0.0519 0.00 0.06 17.58 11.88 x 0.03 0.06															R	E	V	'11	= 1	N	7 E	

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under 32964

68,490 Total Heat Loss btu/h Total Heat Gain 31,950 btu/h Division C subsection 3.2.5. of the Building Code. Individual BCIN:

Name Met

David DaCosta

SB-12 Package Package A1



2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@gtadesigns.ca

Project # Layout #

David DaCosta

Page 6 PJ-00041 JB-08344

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under

Division C subsection 3.2.5. of the Building Code. Individual BCIN: 32964 Mane At Et c

Package: Project:	Package A1 Bradford	Model:	S38-20	
rioject.				
	RESIDENTIAL MECHANICAL			
	For systems serving one dwelling unit & co	onforming to the Untario Buildii	ng Code, O.reg 332/12	
	Location of Installation	Total \	Ventilation Capacity 9.32.3.3	(1)
Lot #	Plan #			
Township		Bsmt & Master Bdrm Other Bedrooms	1 2 @ 21.2 cfm 3 @ 10.6 cfm	
Township	Bradford	Bathrooms & Kitcher	· -	
Roll #	Permit #	Other rooms	5 @ 10.6 cfm	
Λ -l -l		!	Total	180.2
Address				
		Principa	al Ventilation Capacity 9.32.3.	.4(1)
	Builder		•	, ,
Name	Downiew Wellington	Master bedroom	1 @ 31.8 cfm 3 @ 15.9 cfm	
Address	Bayview Wellington	Other bedrooms	3 @ 15.9 cfm Total	47.7 cfm 79.5
City				
Tal	Fax	Prir Make	ncipal Exhaust Fan Capacity Model	Location
Tel	rax	Make	Wodel	Location
		VanEE	V150H75NS	Base
	Installing Contractor]		
Name		127 cfm		Sones or Equiv.
Address			Heat Recovery Ventilator	
		Make	VanEE	
City		Model	V150H75NS 127 cfm high	80 cfm low
Tel	Fax	Sensible efficiency @		60%
		Sensible efficiency @	② 0 deg C	<u>75%</u>
	0 1 1 1 1 1 2 2 2 2 1 (1)		alance HRV/ERV to within 10 p	
a) x	Combustion Appliances 9.32.3.1(1) Direct vent (sealed combustion) only	Supp	olemental Ventilation Capacit	ty
b) X	Positive venting induced draft (except fireplaces)	Total ventilation capa	acity	180.2
c)	Natural draft, B-vent or induced draft fireplaces	Less principal exhau	. ,	79.5
d)	Solid fuel (including fireplaces)	REQUIRED supplem	nental vent. Capacity	100.7 cfm
e)	No combustion Appliances			
		Si	upplemental Fans 9.32.3.5.	
	Heating System	Location	cfm Model	Sones
Х	Forced air	Ens	50 XB50 50 XB50	0.3
	Non forced air Electric space heat (if over 10% of heat load)	Ens 2 Ens 3	50 XB50 50 XB50	0.3 0.3
	Electric space fleat (ii over 1070 of fleat load)	LII3 3	30 AB30	0.5
		. 1		
	House Type 9.32.3.1(2) Type a) or b) appliances only, no solid fuel	all fans HVI listed	Make Broom	or Equiv
I x	Type I except with solid fuel (including fireplace)	aii iaiis HVI iisted	Make Broan	or Equiv.
iii 🔚	Any type c) appliance		Designer Certification	
IV	Type I or II either electric space heat		his ventilation system has beer	n designed
Other	Type I, II or IV no forced air	in accordance with the	he Ontario Building Code.	

	System Design Option	Name	David DaCosta
1 2	Exhaust only / forced air system HRV WITH DUCTING / forced air system	Signature	Mana Mit
3 4	X HRV simplified connection to forced air system HRV full ducting/not coupled to forced air system	HRAI#	5190 BCIN# 32964
	Part 6 design	Date	July 19, 2022 C V C L

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00041 Layout # JB-08344

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

			For use by Princi	pal Authority			
Application No:				Model/Certification I	Number		
A. Project Information							
Building number, street name					Unit number	Lot/Con	
			S38-20				
Municipality Bradford			Postal code	Reg. Plan number /	other description		
B. Prescriptive Compliance [indica	ate the bu	ilding cod	le compliance packa	ge being employed	in the house design]		
SB-12 Prescriptive (input design pa	ickage):		Pack	age A1	Table	3.1.1.2.	<u>4</u>
C. Project Design Conditions							
Climatic Zone (SB-1):		Heat. E	quip. Efficiency		Space Heating F	uel Sourc	e
Zone 1 (< 5000 degree days)		√ ≥ 9:	2% AFUE	✓ Gas	Propane		Solid Fuel
Zone 2 (≥ 5000 degree days)		_ ≥8	34% < 92% AFUE	☐ Oil	☐ Electric		Earth Energy
Ratio of Windows, Skylights & Glas	s (W, S	& G) to	Wall Area		Other Building Ch	aracterist	ics
404.0025470.0	612			☐ Log/Post&Bea	m	Grade	☐ ICF Basement
Area of Walls = $\frac{481.22}{100}$ m ² or $\frac{5179.9}{100}$	ft ²	W,S &	G % = <u>9.1%</u>	☐ Slab-on-groun	d Walkout Ba	sement	
		İ		☑ Air Conditioning	g Combo Uni	t	
Area of W, S & G = <u>43.57</u> m ² or <u>469.0</u>	ft²	Utilize \	Window ☐ Yes	☐ Air Sourced H	eat Pump (ASHP)		
		Aver	aging 🔽 No	☐ Ground Sourc	e Heat Pump (GSHP)		
D. Building Specifications [provide	e values a	nd ratings	s of the energy effici	ency components p	roposed]		
Energy Efficiency Substitutions							
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))							
☐ Combined space heating and domestic	water he	eating sys	tems (3.1.1.2(7) / 3.	1.1.3.(7))			
☐ Airtightness substitution(s)		Table 3.	1.1.4.B Required:		Permitted S	Substitution	:
Airtightness test required		Table 3.	Required:		Permitted S	Substitution	:
(Refer to Design Guide Attached)		rable 3.	Required:		Permitted S	Substitution	:
Building Component			SI/R-Values or	Ві	ilding Component		Efficiency Ratings
			n U-Value¹				, ,
Thermal Insulation		ninal	Effective		ors Provide U-Value ⁽¹⁾ o	r ER rating	
Ceiling with Attic Space		60	59.22	Windows/Sliding	Glass Doors		1.6
Ceiling without Attic Space	_	31	27.65	Skylights			2.8
Exposed Floor		31	29.80	Mechanicals			1 000/
Walls Above Grade	22		17.03	Heating Equip.(A	· · · · · · · · · · · · · · · · · · ·		96%
Basement Walls		20.0ci	21.12	HRV Efficiency (75%
Slab (all >600mm below grade)		X	X	DHW Heater (EF	•		0.80
Slab (edge only ≤600mm below grade)		0	11.13	,	.1 (min. 42% efficiency))		#Showers 2
Slab (all ≤600mm below grade, or heated)		0	11.13	Combined Heatir	ng System		
(1) U value to be provided in either W/(m²·K) or Bt	u/(h·ft·F) l	out not bo	th.				
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso				ts building	code]
Name			BCIN	Signatu		11/	. ,
David DaCosta			329	964	Mane	14C=	₹ 7
Form authorized by OHRA OROA IMCRO Revised December 1 20							





2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 e-mail hvac@gtadesigns.ca

Page 8 PJ-00041 Project # Layout # JB-08344

Vent

Case

Case

Case

Package: System: System 1 Package A1 Project: **Bradford** Model: S38-20

Air Leakage Calculations

	Building A	ir Leakage	Heat Loss	
В	LRairh	Vb	HL^T	HLleak
0.018	0.403	42203	81.4	24891

	Building Air Leakage Heat Gain									
В	LRairh	Vb	HG^T	HG Leak						
0.018	0.099	42203	11	827						

	Air Lea	kage Heat	Loss/Gain Multiplier T	able (Section 11)
Level	Level	Building	Level Conductive	Air Leakage Heat Loss
Level	Factor (LF)	Air	Heat Loss	Multiplier
Level 1	0.5		11027	1.1286
Level 2	0.3	24891	14843	0.5031
Level 3	0.2	24091	15612	0.3189
Level 4	0		0	0.0000

		Air Leakage Heat Gain
HG LEAK	827	0.0519
BUILDING CONDUCTIVE HEAT GAIN	15924	0.0519

Levels				
1	2	3	4	
(LF)	(LF)	(LF)	(LF)	
1.0	0.6	0.5	0.4	
	0.4	0.3	0.3	
		0.2	0.2	
			0.1	

Levels this Dwelling	
3	

Ventilation Calculations

			Ventilat	ion Heat Loss	1		
ent			Ventilation	n Heat Loss			
>	С	PVC	HL^T	(1-E) HRV	HLbvent		С
	1.08	79.5	81.4	0.20	1398		1.1
		-	•			,	

Ventilation Heat Gain				
С	PVC	HG^T	HGbvent	
1.1	79.5	11	944	

Ventilation Heat Gain

Case 1

Ventilation Heat Gain (Exhaust Only Systems)

Ventilation Heat Loss (Exhaust only Systems)
ventilation near Loss (Exhaust only Systems)

eat Loss	(Exhaust only S	vstems)

Case 1 - Exh	aust Only	Multiplier
HGbvent	944	0.06
Building	15924	0.06

Case 1 - Exhaust Only				
Level	LF	HLbvent	LVL Cond. HL	Multiplier
Level 1	0.5	1398	11027	0.06
Level 2	0.3		14843	0.03
Level 3	0.2		15612	0.02
Level 4	0		0	0.00

Case 1

Case 2

			Multiplier
С	HL^T	(1-E) HRV	17.58
1.08	81.4	0.20	17.30

Ventilation Heat Gain (Direct Ducted Systems
--

Case 2

Case 3 Ventilation Heat Gain (Forced Air Systems)

		Multiplier	
С	HG^T	11.88	
1.08	11	11.00	
1.00		J	

Case 3	

ventilation heat Loss (Forced All Systems)	

	HLbvent	Multiplier
Total Ventilation Load	1398	0.03

		Vent Heat Gain	Multiplier
vent	HG*1.3	944	0.06
		944	0.00

Foundation Conductive Heatloss Level 1	Level 1	2851 Watts	9728 Btu/h	
Foundation Conductive Heatloss Level 2	Level 2	Watts	Btu/h	

Slab on Grade Foundation Conductive Heatloss

Watts

HGbv

944

Btu/h

Walk Out Basement Foundation Conductive Heatloss

Watts

Btu/h

Envelope Air Leakage Calculator

Supplemental tool for CAN/CSA-F280

Weather Station	Description
Province:	Ontario T
Region:	Bradford ▼
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Local Shiel	ding
Building Site:	Suburban, forest ▼
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	8.84
Building Confi	guration
Type:	Detached
Number of Stories:	Two
Foundation:	Shallow
House Volume (m ³):	1195.19
Air Leakage/Ve	entilation
Air Tightness Type:	Present (1961-) (ACH=3.57)
Custom DDT Data	ELA @ 10 Pa. 322.44 cm²
Custom BDT Data:	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply: Total Exhaust:
	39.75
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Heating Air Leakage Rate (ACH/H):	0.403
Cooling Air Leakage Rate (ACH/H):	0.099

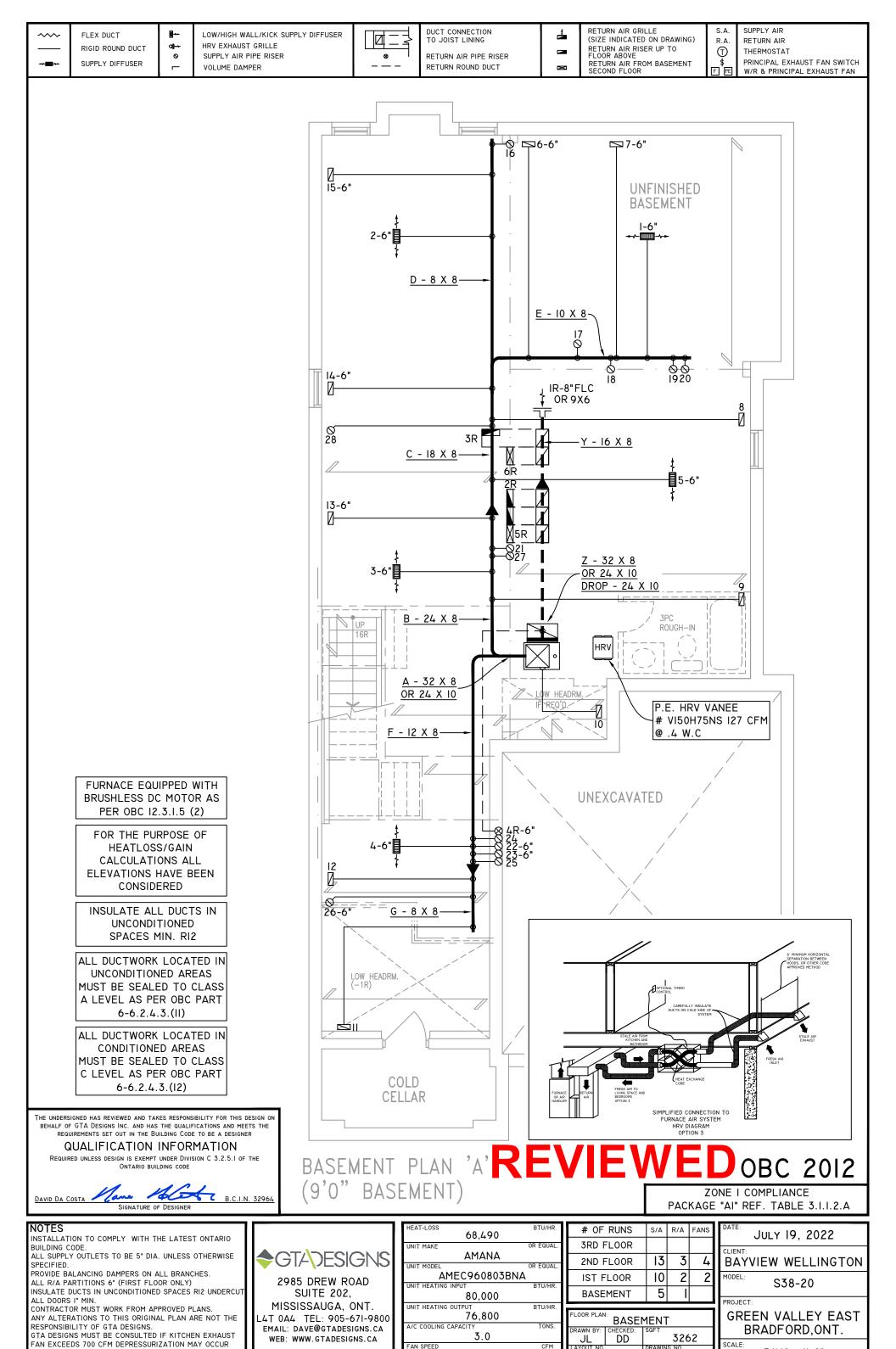


Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description					
Province:		Ontario			
Region:		Bradford ▼			
	Site D	escription			
Soil Conductivity:		High conductivity: moist soil ▼			
Water Table:		Normal (7-10 m, 23-33 Ft) ▼			
For	undatio	on Dimensions			
Floor Length (m):	21.99				
Floor Width (m):	5.59				
Exposed Perimeter (m):	55.17				
Wall Height (m):	3.05	Annana			
Depth Below Grade (m):	0.91	Insulation Configuration			
Window Area (m²):	3.53				
Door Area (m²):	1.95				
	Radi	ant Slab			
Heated Fraction of the Slab:	0				
Fluid Temperature (°C):	33				
	Desig	n Months			
Heating Month	1				
	Foundation Loads				
Heating Load (Watts):		2851			





FAN SPEED

1172

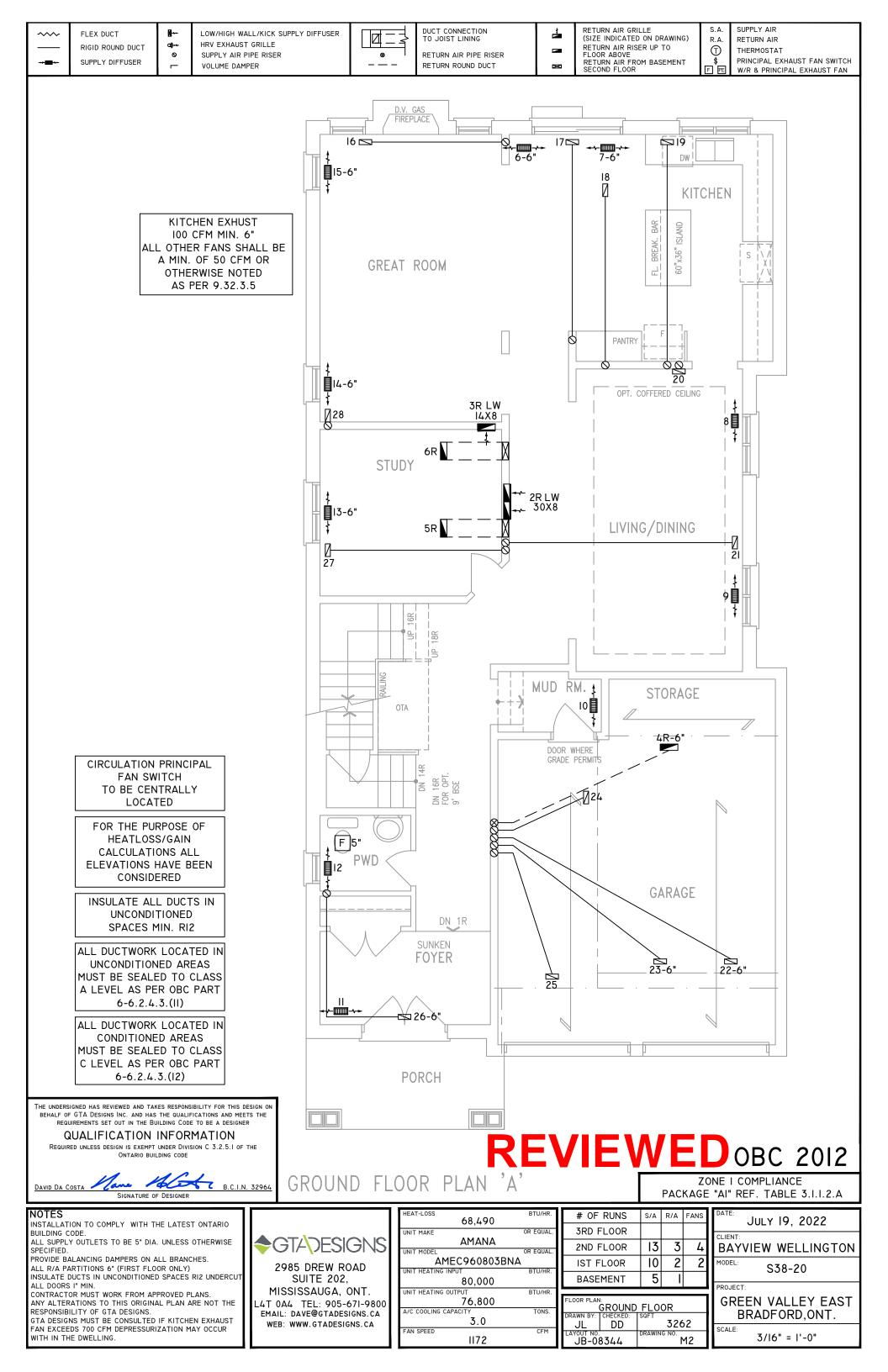
WITH IN THE DWELLING.

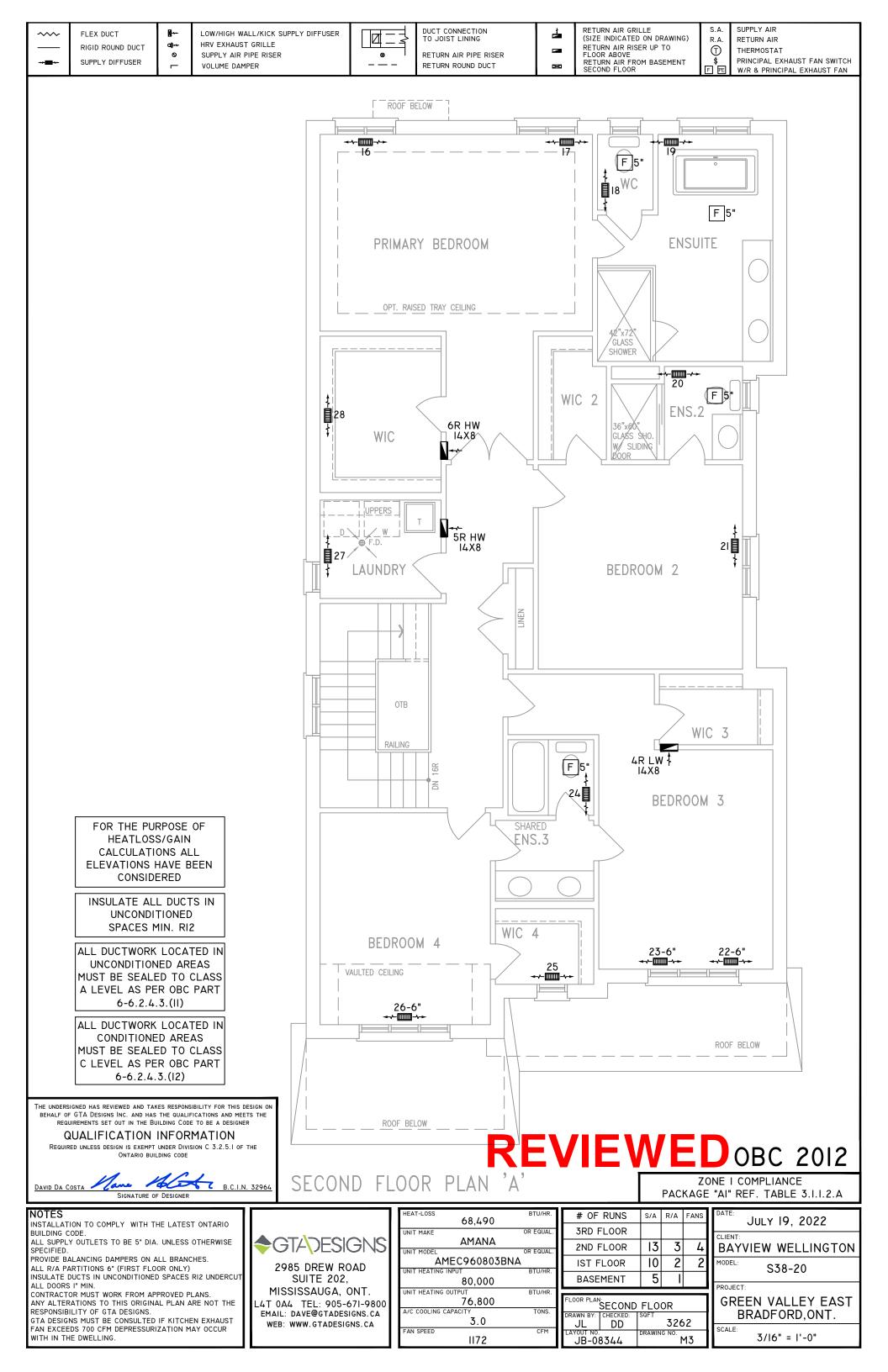
CFM

JB-08344

MI

3/16" = 1'-0"





FLEX DUCT
RIGID ROUND DUCT
SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER

HRV EXHAUST GRILLE
SUPPLY AIR PIPE RISER
VOLUME DAMPER



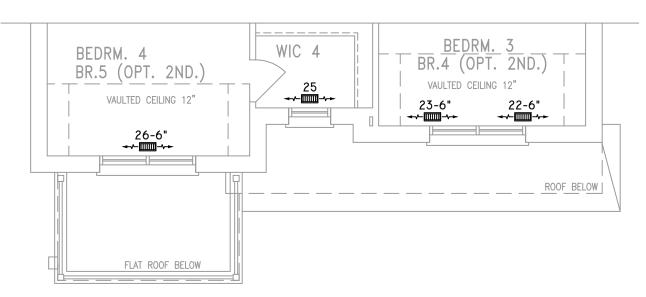
DUCT CONNECTION
TO JOIST LINING

RETURN AIR PIPE RISER
RETURN ROUND DUCT

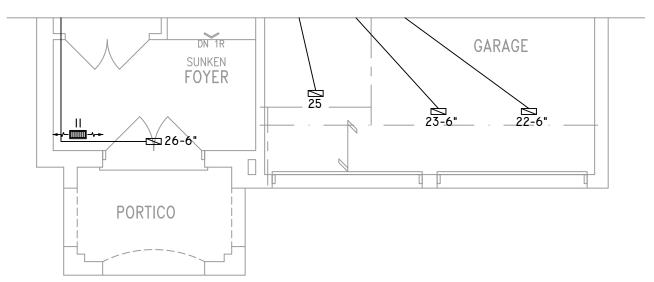
RETURN AIR GRILLE
(SIZE INDICATED ON DRAWING)
RETURN AIR RISER UP TO
FLOOR ABOVE
RETURN AIR FROM BASEMENT
SECOND FLOOR

S.A. SUPPLY AIR
R.A. RETURN AIR
THERMOSTA
\$ PRINCIPAL E

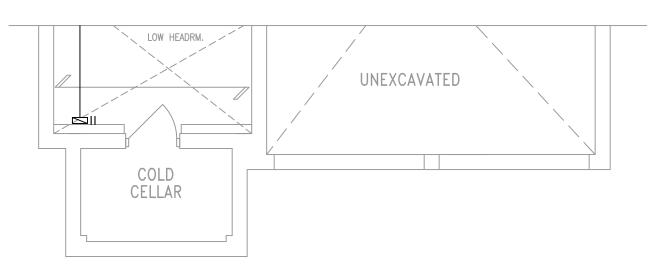
RETURN AIR
THERMOSTAT
PRINCIPAL EXHAUST FAN SWITCH



PARTIAL STD./OPT. SECOND FLOOR PLAN 'B'



PARTIAL GROUND FLOOR PLAN 'B'



HEAT-LOSS

PARTIAL BASEMENT PLAN 'B'

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN ON BEHALF OF GTA DESIGNS INC. AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE BUILDING CODE TO BE A DESIGNER

QUALIFICATION INFORMATION

REQUIRED UNLESS DESIGN IS EXEMPT UNDER DIVISION C 3.2.5.1 OF THE ONTARIO BUILDING CODE



REVIEWED OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.I.I.2.A

NOTES

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO

BUILDING CODE.
ALL SUPPLY OUTLETS TO BE 5" DIA. UNLESS OTHERWISE

PROVIDE BALANCING DAMPERS ON ALL BRANCHES.
ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY)
INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT
ALL DOORS I" MIN.

ALL DOORS I" MIN. CONTRACTOR MUST WORK FROM APPROVED PLANS. ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE

RESPONSIBILITY OF GTA DESIGNS. GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR WITH IN THE DWELLING.



2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA

WEB: WWW.GTADESIGNS.CA

UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960803BNA	
UNIT HEATING INPUT	BTU/HR.
80,000	
UNIT HEATING OUTPUT	BTU/HR.
76,800	
A/C COOLING CAPACITY	TONS.
3.0	
FAN SPEED	CFM
1172	

68,490

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	13	3	4
IST FLOOR	10	2	2
BASEMENT	5	-	
FLOOR PLAN:			

LOOR PLAN			
PARTIAL PLAN(S)			
RAWN BY:	CHECKED:	SQFT	
JL	DD	3262	
.AYOUT NO.		DRAWING NO.	
JB-0	8344	M4	

JULY 19, 2022

CLIENT:
BAYVIEW WELLINGTON

MODEL: \$38-20

PROJECT:

GREEN VALLEY EAST BRADFORD,ONT.

.E: 3/16" = 1'-0" FLEX DUCT
RIGID ROUND DUCT
SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER

HRV EXHAUST GRILLE
SUPPLY AIR PIPE RISER

VOLUME DAMPER

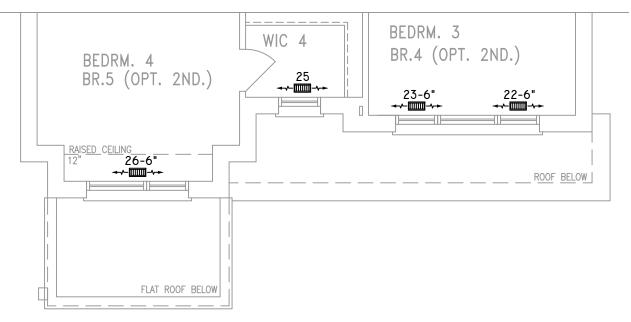


DUCT CONNECTION
TO JOIST LINING

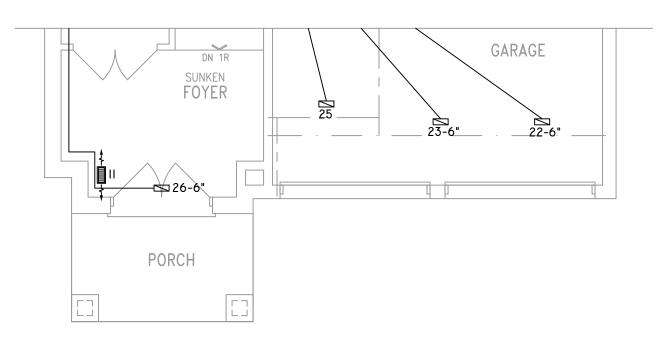
RETURN AIR PIPE RISER
RETURN ROUND DUCT

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR S.A. SUPPLY AIR
R.A. RETURN AIR
THERMOSTA
\$ PRINCIPAL E

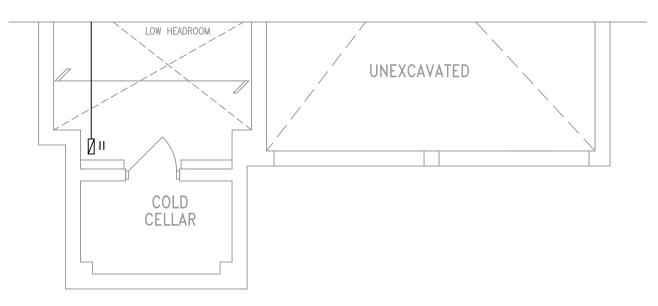
RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



PARTIAL STD./OPT. SECOND FLOOR PLAN 'C'



PARTIAL GROUND FLOOR PLAN 'C'



PARTIAL BASEMENT PLAN 'C'

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN ON BEHALF OF GTA DESIGNS INC. AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE BUILDING CODE TO BE A DESIGNER QUALIFICATION INFORMATION

REQUIRED UNLESS DESIGN IS EXEMPT UNDER DIVISION C 3.2.5.1 OF THE ONTARIO BUILDING CODE

AVID DA COSTA

B.C.I.N. 32964

REVIEWED OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.I.I.2.A

NOTES

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE.
ALL SUPPLY OUTLETS TO BE 5" DIA. UNLESS OTHERWISE

SPECIFIED.

PROVIDE BALANCING DAMPERS ON ALL BRANCHES.
ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY)
INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT
ALL DOORS I" MIN.

CONTRACTOR MUST WORK FROM APPROVED PLANS.
ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE
RESPONSIBILITY OF GTA DESIGNS.

RESPONSIBILITY OF GTA DESIGNS.
GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST
FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR
WITH IN THE DWELLING.



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WEB: WWW.GTADESIGNS.CA

HEAT-LUSS	B I U/HR.
68,490	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960803BNA	
UNIT HEATING INPUT	BTU/HR.
80,000	
UNIT HEATING OUTPUT	BTU/HR.
76,800	
A/C COOLING CAPACITY	TONS.
3.0	
FAN SPEED	CFM
1172	

# OF RUNS	S/A	R/A	FANS	Ī
3RD FLOOR				
2ND FLOOR	13	3	4	
IST FLOOR	10	2	2	Ī
BASEMENT	5	I		۱,
FLOOR PLAN:				il'

LOOR PLAN:				
PARTIAL PLAN(S)				
RAWN BY:	CHECKED:	SQFT		
JL	DD	3262		
AYOUT NO.		DRAWING NO.		
JB-08344		M5		

DATE:
JULY 19, 2022

CLIENT:
BAYVIEW WELLINGTON

MODEL:
S38-20

PROJECT:

GREEN VALLEY EAST BRADFORD,ONT.

3/16" = 1'-0"

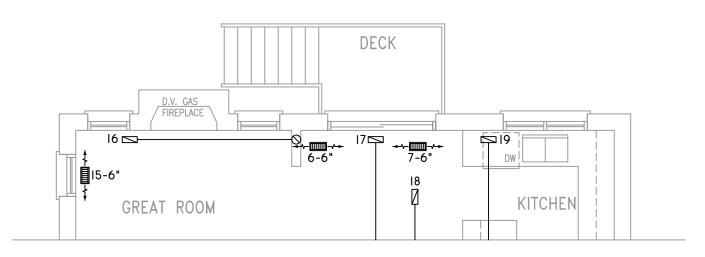
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER

RETURN ROUND DUCT

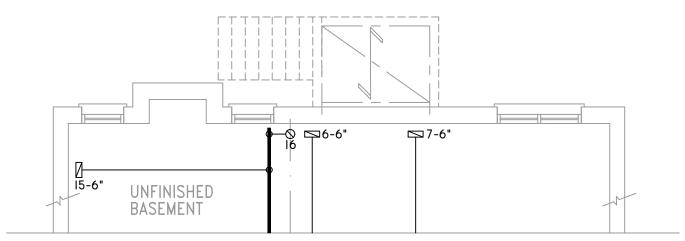
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A 1

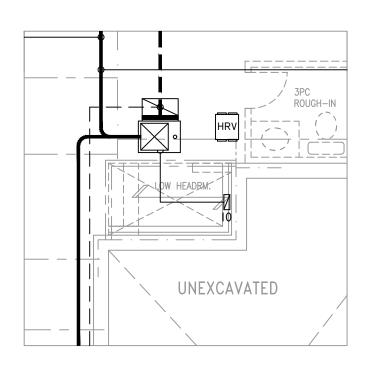
SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



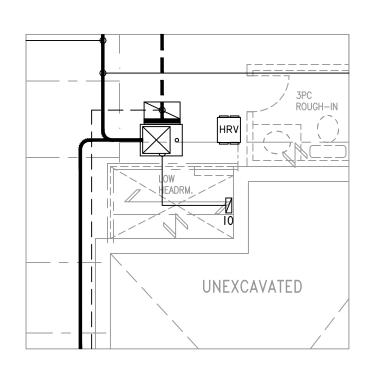
PARTIAL BASEMENT PLAN 'A', 'B' & 'C' - 9R OR MORE W.O.D. CONDITION



PARTIAL GROUND FLOOR PLAN 'A', 'B' & 'C' - 9R OR MORE W.O.D. COND.



PART. SUNKEN MUD ROOM



PART. SUNKEN MUD ROOM (-1R)

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN ON BEHALF OF GTA DESIGNS INC. AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE BUILDING CODE TO BE A DESIGNER QUALIFICATION INFORMATION Required unless design is exempt under Division C 3.2.5.1 of the ONTARIO BUILDING CODE lane 146 B.C.I.N. 32964

REVIEWED OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" REF. TABLE 3.1.1.2.A

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE. ALL SUPPLY OUTLETS TO BE 5" DIA. UNLESS OTHERWISE

PROVIDE BALANCING DAMPERS ON ALL BRANCHES. ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY) INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT ALL DOORS I" MIN.

CONTRACTOR MUST WORK FROM APPROVED PLANS. ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE RESPONSIBILITY OF GTA DESIGNS.

GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR WITH IN THE DWELLING.



2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT.

L4T 0A4 TEL: 905-67I-9800 EMAIL: DAVE@GTADESIGNS.CA WEB: WWW.GTADESIGNS.CA

HEAT-LOSS	BTU/HR.		
68,490			
UNIT MAKE	OR EQUAL.		
AMANA			
UNIT MODEL	OR EQUAL.		
AMEC960803BNA			
UNIT HEATING INPUT	BTU/HR.		
80,000			
UNIT HEATING OUTPUT	BTU/HR.		
76,800			
A/C COOLING CAPACITY	TONS.		
3.0			
FAN SPEED	CFM		
1172			

# OF RUNS S/A R/A FANS 3RD FLOOR				
2ND FLOOR 13 3 4				
IST FLOOR 10 2 2				
BASEMENT 5 I				
FLOOR PLAN: PARTIAL PLAN(S)				

BASEMENT 5	
. -	PROJECT:
OOR PLAN: PARTIAL PLAN(S) RAWN BY: CHECKED: SOFT JI DD 3262	GREEN VALLEY EAST BRADFORD,ONT.
JL DD 3262 AYOUT NO. DRAWING NO.	SCALE:
JB-08344 M6	3/16" = 1'-0"
	-

JULY 19, 2022 CLIENT BAYVIEW WELLINGTON MODEL: S38-20