

### **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 Baross	sa 6		Lot:	
S38-	6		Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	gn activities			
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202			Lot/con.
Municipality  Mississauga	Postal code L4T 0A4	Province Ontario	E-mail hvac@gtadesi	gns.ca
Telephone number	Fax number		Cell number	
(905) 671-9800  C. Design activities undertaken by individual identified in S	ection B. [Bu	ilding Code Table 3	3.5.2.1 of Division C]	
☐ House ☑ HVAC – H	louse		☐ Building Structural	
☐ Small Buildings ☐ Building Se	ervices		☐ Plumbing – House	
☐ Large Buildings ☐ Detection,	Lighting and Po	wer	☐ Plumbing – All Buildings	
☐ Complex Buildings ☐ Fire Protect	ction		☐ On-site Sewage System	s
Description of designer's work Mod	del Certification	1	Project #:	PJ-00041
Heating and Ocaling Land Octobering		Duilden	Layout #:	JB-07353
Heating and Cooling Load Calculations Main Air System Design Alternate	X	Builder Project	Bayview Wellingto Green Valley East	
Residential mechanical ventilation Design Summary Area Sq ft:	2893		Barossa 6	
Residential System Design per CAN/CSA-F280-12		Model	S38-6	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer				
David DaCosta	declare that (d	choose one as appro	priate):	
(print name)				
☐ I review and take responsibility for 3.2.4 Division C of the Building Cod				
classes/categories.				
Individual BCIN:			1	
Firm BCIN:				
☑ I review and take responsibility for "other designer" under subsection				
Individual BCIN:	3296	64		
Basis for exemp	tion from registr	ation:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from the	e registration and	d qualification requirem	ents of the Building Code.	
Basis for exemp	tion from registr	ation and qualification:		
I certify that:				
The information contained in this schedule is true to the best of n	ny knowledge.			
I have submitted this application with the knowledge and consent	of the firm.			
July 21, 2021		Mare 16	- Contraction of the contraction	
Date		Signature of Des	signer	

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

2. Schedule 1 does not require to be completed a holder of a license, temporay license, or a certificate of authorization, issed by the Ontario Associstion 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.



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

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These documents issued for the use of and may not be used by any other persons without authorization. Documents for permit and/or construction are signed in red.    Building Location		Heat loss and gain calcula	ation summary sheet CSA-F280-M12 Standard Form No. 1								
Building Location	These documents iss	sued for the use of									
Address (Model): S38-6   Site: Green Valley East	and may not be used	by any other persons without authorization. Documents	· · · · · · · · · · · · · · · · · · ·								
Address (Model): 838-6   Site: Green Valley East	,	<u> </u>									
Postal code:   Post	Address (Model):										
Calculations based on  Dimensional information based on:  VA3 Design13/May/2021  Attachment: Detached	Model:	Barossa 6	Lot:								
Dimensional information based on:   VA3 Design13/May/2021     Attachment:   Detached   Front facing:   EastWest   Assumed?   Yes   No. of Levels:   3   Ventilated? Included   Air tightness:   1961-Present (ACH=3.57)   Assumed?   Yes   Weather location:   Bradford   Wind exposure:   Shettered   HRV?   VanEE   V150H75NS   Internal shading: Light-translucent   Occupants:   5   Sensible Eff. at -25C   60%   Apparent Effect. at -0C   83%   Units:   Imperial   Area Sq ft:   2893	City and Province:	Bradford	Postal code:								
Dimensional information based on:   VA3 Design13/May/2021	-	Calculations	based on								
No. of Levels: 3   Ventilated?   Included   Air tightness: 1961-Present (ACH=3,57)   Assumed?   Yes	Dimensional informa										
Weather location:   Bradford   Wind exposure:   Sheltered	Attachment:	Detached	Front facing: East/West Assumed? Yes								
HRV?   VanEE	No. of Levels:	3 Ventilated? Included	Air tightness: 1961-Present (ACH=3.57) Assumed? Yes								
Sensible Eff. at -25C	Weather location:	Bradford	Wind exposure: Sheltered								
Sensible Eff. at -0C	HRV?	VanEE V150H75NS	Internal shading: Light-translucent Occupants: 5								
Heating design conditions  Cutdoor temp 9-9.4 Indoor temp: 72 Mean soil temp: 48 Outdoor temp 86 Indoor temp: 75 Latitude: 44  Above grade walls  Style A: As per OBC SB12 Package A1 R 22 Style A: As per OBC SB12 Package A1 R 20 Style B:  Style B: Style C: Style C: Style C: Style C: Style C: Style D:  Floors on soil  Ceilings  Style B: As per Selected OBC SB12 Package A1 R 30 Style C: Style B: As per Selected OBC SB12 Package A1 R 30 Style C: Style B: As per Selected OBC SB12 Package A1 R 30 Style B: Style B: As per Selected OBC SB12 Package A1 R 30 Style B: Style B: As per Selected OBC SB12 Package A1 R 30 Style B: S	Sensible Eff. at -25C	60% Apparent Effect. at -0C 83%	Units: Imperial Area Sq ft: 2893								
Outdoor temp	Sensible Eff. at -0C	75%									
Above grade walls   Below grade walls		Heating design conditions	Cooling design conditions								
Style A:	Outdoor temp -9.	4 Indoor temp: 72 Mean soil temp: 48	Outdoor temp 86 Indoor temp: 75 Latitude: 44								
Style B: Style C: Style C: Style D:  Floors on soil Style A: As per Selected OBC SB12 Package A1 Style A: As per Selected OBC SB12 Package A1 R Style B:  Exposed floors Style A: As per Selected OBC SB12 Package A1 R 31 Doors Style B: Style B: Style A: As per Selected OBC SB12 Package A1 R 31 Doors Style B: Style B: Style B: Style B: Style B: Style B: Style A: As per Selected OBC SB12 Package A1 R 3.55 Style C: Style B: Style B: Style B: Style B: Style B: Style B: Style C: Style B: Style C: Style B: Style C: Style C: Style B: Style C: Sty		Above grade walls	Below grade walls								
Style C:  Style D:  Floors on soil  Style A: As per Selected OBC SB12 Package A1 Style B:  Style B:  Style B:  Style B:  Style A: As per Selected OBC SB12 Package A1 R 31 Style C:  Style B:  Style B:  Style A: As per Selected OBC SB12 Package A1 R 31 Doors  Style B:  Style A: As per Selected OBC SB12 Package A1 R 4.0  Windows  Style B:  Style B:  Style A: As per Selected OBC SB12 Package A1 R 3.55 Style C:  Style B:  Style A: As per Selected OBC SB12 Package A1 R 2.0  Style B:  Style C:  Style B:  Style B:  Style B:  Style C:  Style B:  Style B:  Style C:  Style B:  Style B:  Style C:  Style B:  Style B:  Style B:  Style B:  Style B:  Attached documents:  As per Shedule 1 Heat Loss/Gain Caculations based on CSA-F280-12 Effective R-Values  Residential New Construction - Forced Air  Calculations performed by  Name:  David DaCosta  Postal code: L4T 0A4  Company: gtaDesigns Inc.	Style A: As per 0	DBC SB12 Package A1 R 22	Style A: As per OBC SB12 Package A1 R 20ci								
Style D:    Style D:   Style D:   Style D:	Style B:		Style B:								
Style A: As per Selected OBC SB12   Package A1   Style A: As per Selected OBC SB12   Package A1   R   Style B:   Style B: As per Selected OBC SB12   Package A1   R   Style B:   Style B:   As per Selected OBC SB12   Package A1   R   Style A:   As per Selected OBC SB12   Package A1   R	Style C:		Style C:								
Style A: As per Selected OBC SB12 Package A1 Style A: As per Selected OBC SB12 Package A1 R Style B: Style B: As per Selected OBC SB12 Package A1 R Style B: As per Selected OBC SB12 Package A1 R Style C: Style C: Style B: Style A: As per Selected OBC SB12 Package A1 R A1 Doors  Style B: Style A: As per Selected OBC SB12 Package A1 R A2.0  Windows Style B: Style B: Style B: Style B: Style C: Style B: Style B: Style C: Style B: Style	Style D:		Style D:								
Style B: Style B: As per Selected OBC SB12 Package A1 R Style C: Style A: As per Selected OBC SB12 Package A1 R A Style B: Style A: As per Selected OBC SB12 Package A1 R A Style B: St		Floors on soil	Ceilings								
Exposed floors  Style A: As per Selected OBC SB12  Package A1  R  31  Doors  Style B: Style A: As per Selected OBC SB12  Package A1  R  4.0  Windows Style B: Style B:  Style A: As per Selected OBC SB12  Package A1  R  3.55  Style C:  Style B: Skylights  Style B: Skylights  Style C: Style A: As per Selected OBC SB12  Package A1  R  2.0  Style B: Style B: 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	Style A: As per	Selected OBC SB12 Package A1	Style A: As per Selected OBC SB12 Package A1 R 60								
Style A: As per Selected OBC SB12 Package A1 R 31 Doors  Style B: Style A: As per Selected OBC SB12 Package A1 R 4.0  Windows Style B: Style B: Skylights  Style A: As per Selected OBC SB12 Package A1 R 3.55 Style C: Style B: Skylights  Style C: Style A: As per Selected OBC SB12 Package A1 R 2.0  Style D: Style B: Style B: As per Selected OBC SB12 Package A1 R 2.0  Style B: Style B: 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	Style B:		Style B: As per Selected OBC SB12 Package A1 R 31								
Style B:    Style A:   As per Selected OBC SB12   Package A1   R   4.0   Style A:   As per Selected OBC SB12   Package A1   R   3.55   Style C:   Style B:   Skylights     Style C:   Style A:   As per Selected OBC SB12   Package A1   R   2.0   Style D:   Style B:   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		Exposed floors	Style C:								
Windows Style A: As per Selected OBC SB12 Package A1 R 3.55 Style C: Style B: Skylights Style C: Style A: As per Selected OBC SB12 Package A1 R 2.0 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	Style A: As per	Selected OBC SB12 Package A1 R 31	Doors								
Style A: As per Selected OBC SB12 Package A1 R 3.55 Style C:  Style B: Style C: Style A: As per Selected OBC SB12 Package A1 R 2.0  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	Style B:		Style A: As per Selected OBC SB12 Package A1 R 4.00								
Style B:  Style C:  Style D:  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		Windows	Style B:								
Style C: Style A: As per Selected OBC SB12 Package A1 R 2.0 Style D: 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	Style A: As per	Selected OBC SB12 Package A1 R 3.55	Style C:								
Style D:  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	Style B:		Skylights								
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	Style C:		Style A: As per Selected OBC SB12 Package A1 R 2.03								
Notes: Residential New Construction - Forced Air  Calculations performed by  Name: David DaCosta Postal code: L4T 0A4  Company: gtaDesigns Inc. Telephone: (905) 671-9800	Style D:		Style B:								
Calculations performed by  Name: David DaCosta Postal code: L4T 0A4  Company: gtaDesigns Inc. Telephone: (905) 671-9800	Attached documents	As per Shedule 1 Heat Loss/0	Gain Caculations based on CSA-F280-12 Effective R-Values								
Name: David DaCosta Postal code: L4T 0A4  Company: gtaDesigns Inc. Telephone: (905) 671-9800	Notes:	Residential New C	Construction - Forced Air								
Company: gtaDesigns Inc. Telephone: (905) 671-9800		Calculations p	erformed by								
	Name:	David DaCosta	Postal code: L4T 0A4								
Address: 2985 Drew Road, Suite 202 Fax:	Company:	gtaDesigns Inc.	Telephone: (905) 671-9800								
	Address:	2985 Drew Road, Suite 202	Fax:								
City: Mississauga E-mail hvac@gtadesigns.ca	City:	Mississauga	E-mail hvac@gtadesigns.ca								



Builder:

**Bayview Wellington** 

### Air System Design

July 21, 2021

Date:

**SB-12** Package A1 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

Page 3 Project #

Barossa 6 PJ-00041 **Building Code.** System 1 Mane Alex **Green Valley East** S38-6 Individual BCIN: 32964 David DaCosta Lavout # JB-07353 Project: Model: BOILER/WATER HEATER DATA: DESIGN LOAD SPECIFICATIONS AIR DISTRIBUTION & PRESSURE FURNACE/AIR HANDLER DATA: A/C UNIT DATA: Level 1 Net Load 20,386 btu/h **Equipment External Static Pressure** 0.5 "w.c. Make Make 3.0 Ton Amana Туре Amana AMEC960803BNA Level 2 Net Load 22,103 btu/h **Additional Equipment Pressure Drop** 0.225 "w.c. Model Model Cond.-3.0 Level 3 Net Load 19.769 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 62 257 htu/h " W C ΔWH 0.138 "w.c. 0.50 Min.Output Btu/h Total Heat Loss R/A Plenum Pressure E.s.p. Blower DATA: **Total Heat Gain** 30,087 btu/h S/A Plenum Pressure 0.14 "w.c. deg. F. W2 Heating Air Flow Proportioning Factor AFUE Blower Speed Selected: ECM 0.0188 cfm/btuh 96% **Blower Type** 37672 ft<sup>3</sup> **Building Volume Vb** Cooling Air Flow Proportioning Factor 0.0390 cfm/btuh (Brushless DC OBC 12.3.1.5.(2)) Aux. Heat Ventilation Load 1.188 Btuh. Package A1 Heating Check 1172 cfm 1172 cfm R/A Temp 70 dea. F. SB-12 Package Cooling Check Ventilation PVC 79.5 cfm S/A Temp 131 deg. F. Supply Branch and Grill Sizing Diffuser loss 1172 cfm **Cooling Air Flow Rate** 1172 cfm 0.01 "w.c. Temp. Rise>>> 61 deg. F. Selected cfm> Level 1 Level 2 S/A Outlet No 2 5 10 11 12 13 14 Room Use BASE BASE BASE KIT KIT MUD FOY PWD DIN GRT GRT Btu/Outlet 5096 5096 5096 5096 2084 2084 4911 1294 3521 805 3405 1999 1999 **Heating Airflow Rate CFM** 96 96 96 96 39 39 92 24 66 15 64 38 38 18 18 18 115 67 10 93 80 Cooling Airflow Rate CFM 18 81 81 80 **Duct Design Pressure** 0.13 **Actual Duct Length** 35 44 26 24 45 50 5 23 32 23 29 53 43 Equivalent Length 70 110 100 90 140 70 70 70 70 70 70 70 70 70 160 170 80 170 130 160 120 120 110 70 70 70 70 70 Total Effective Length 70 145 144 116 164 70 70 70 70 70 70 70 70 205 220 85 193 162 183 149 173 153 70 70 70 70 70 70 **Adjusted Pressure** 0.19 0.09 0.09 0.11 0.08 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.06 0.06 0.15 0.07 0.08 0.07 0.09 0.08 0.08 0.19 0.19 0.19 0.19 0.19 **Duct Size Round Outlet Size** 4x10 4x10 4x10 4x10 4x10 3x10 3x10 4x10 3x10 4x10 4x10 4x10 4x10 4x10 4x10 Trunk D D Level 3 Level 4 S/A Outlet No. 15 17 18 20 22 23 24 16 19 21 Room Use MAST **FNS** RFD 2 **BATH** BFD 3 RFD 4 RFD 4 FNS 2 LAUND WIC. Btu/Outlet 3508 2326 1405 668 1672 3127 3127 2283 805 848 **Heating Airflow Rate CFM** 66 44 26 13 31 59 59 43 15 16 94 58 74 Cooling Airflow Rate CFM 42 14 43 74 70 10 **Duct Design Pressure** 0.13 **Actual Duct Length** 60 63 47 50 51 47 31 **Equivalent Length** 150 150 150 140 140 150 140 150 150 140 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 210 213 187 190 201 197 181 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 Total Effective Length 199 186 184 70 70 70 Adjusted Pressure 0.06 0.06 0.07 0.07 0.07 0.06 0.07 0.07 0.07 0.07 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 0.19 0.19 **Duct Size Round** 6 6 6 Outlet Size 4x10 4x10 4x10 4x10 3x10 4x10 4x10 4x10 3x10 3x10 4x10 Trunk D D R C Return Branch And Grill Sizing **Grill Pressure Loss** 0.02 "w.c **Return Trunk Duct Sizing** Supply Trunk Duct Sizing R/A Inlet No 1R 2R 3R 4R 5R 6R 7R 8R 9R 10R 11R Trunk CFM Press. Round Rect. Size Trunk CFM Press. Round Rect. Size Inlet Air Volume CFM 192 415 160 105 150 150 **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 1172 0.06 24x10 1171 16.5 32x8 24x10 Drop 16.5 0.06 56 31 1172 0.06 R 717 14.0 22v8 **Actual Duct Length** 9 30 30 40 Z 16.5 32v8 24 y 10 0.06 18 10 **Equivalent Length** 110 125 160 120 125 145 50 50 50 50 50 Υ 575 0.06 12.5 18x8 14x10 C 498 0.06 12.0 16x8 12x10 **Total Effective Length** 119 155 190 176 156 185 50 50 50 50 50 х 264 0.06 9.5 10x8 127 Adjusted Pressure 0.10 0.08 0.06 0.07 0.08 0.06 0.24 0.24 0.24 0.24 0.24 w 362 0.06 10.5 12x8 10x10 **Duct Size Round** 8.0 10.5 8.0 6.0 7.5 8.0 FLC Inlet Size U G Inlet Size 9X6 30 14 14 14 s Trunk z z Q



Total Heat Loss

Total Heat Gain

62,257 btu/h

30,087 btu/h

### Heatloss/Gain Calculations CSA-F280-12

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

e-mail hvac@gtadesigns.ca

Run ft. expose Run ft. expose Ceilin	Project	_		igton		Date:		Jul	y 21, 2021					_	Weather D	ata	Bradford	44	-9.4 8	36 22	48.2				Page 4
Run ft. expose Run ft. expose Ceilin Fi Exposed Ce		: Gree	en Valley E	East		Model:		В	arossa 6 S38-6				System 1		Heat Los	s ^T 81.4	deg. F	Ht gain ^T	11 c	leg. F	GTA:	2893	Proj Lay	ject # out #	PJ-00041 JB-07353
Run ft. expose Run ft. expose Ceilin Fi Exposed Ce																									
Run ft. expose Ceilin Fl Exposed Ce				BA 164 A	SE								Α												
Ceilin Fl Exposed Co				164 A B					A B		A B		В		A B		A B	A B		A B		A B		A B	
FI Exposed Co																									
Exposed Co				6.0 AG		6.0		6.0		6.0	0 AG	6	.0 AG	6.0		6.0		6.0 AG		6.0 AG		6.0 AG		6.0 AG	
	loor area		1	178 Area			Area		Area		Area		Area		Area		Area	Area		Area		Area		Area	
Exposed Ce				Α		,			A		Α		Α		Α		A	Α		Α		Α		Α	
				В			3		В		В		В		В		В	В		В		В		В	
	ed Floors			Flr			-Ir		Flr		Fir		Fir		Flr		Flr	Flr		Flr		Flr		Flr	
Gross Ex	xp Wall A			984																					
Gross Ex																									
Com	nponents R-Value	Loss G	ain	Loss	Gain		oss Gain		Loss Ga	ain	Loss G	ain	Loss Gain		Loss Gai	in	Loss Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain
North	h Shaded 3.5	22.93	11.62	3	69 3	5																			
Ea	ast/West 3.5	22.93	29.56	22 5	04 65	)																			
	South 3.5	22.93	22.50	3	69 6	3																			
WOB V	Windows 3.5	22.93	27.86																						
	Skylight 2.0	40.10	88.23																						
	Doors 4.0			21 4	27 5	3																			
Net exposed				935	48																				
Net exposed			0.65																						
Exposed Co			0.64																						
Exposed Co			1.37																						
Exposed Co	ed Floors 29.8		0.17																						
Foundation Conductive Hea		2.13	0.17	81	97																				
L.	Heat Loss	_		92																					
	Heat Gain			92	129	,																			
		4.4004	0.0470	400																		4			
Air Leakage Heat Lo	.oss/Gain	1.1694 0.06	0.0473	108	36 6																				
Ventilation	Case 1		0.06																						
ventilation	Case 2	14.95	11.88																						
	Case 3 x	0.03	0.06	2	83 8	)																			
Heat Gair			239																						
		percent	4818																						
Duct and P			10%																						
		Total HL for petal HG per room		203	86 187																				
	Laval 2				-		OTUDY.				FOY		nun.		5111										
	Level 2			K	Т		STUDY		MUD		FOY		PWD		DIN		GRT								
Run ft. expose				36 A		55 /		9 /		24	4 A		6 A	34		34		Α		Α		Α		Α	
Run ft. expose				В			3		В		В		В		В		В	В		В		В		. В	
	ng height			11.0		11.0		13.0		12.0		11		11.0		11.0		11.0		11.0		11.0		11.0	
	loor area			297 Area		133 /			Area	68	B Area	3	36 Area		Area	222		Area		Area		Area		Area	
Exposed Co				Α		,			A		Α		Α		Α	5		Α		Α		Α		Α	
Exposed Ce				В					В		В		В		В		В	В		В		В		В	
	ed Floors			Flr			Flr		Fir		Fir		Flr				Flr								
	1A/-II A			396		605		117		288					Flr		TII .	Flr		Flr		Fir		Flr	
Gross Ex										200	В	•	66 6	374		374	TII .	Flr		Flr		Fir		Flr	
Gross Ex Gross Ex	xp Wall B												66	374		374	-								
Gross Ex Gross Ex		Loss G	ain	Loss	Gain		oss Gain		Loss Ga			eain_		374		374	Loss Gair		Gain	Fir Loss	Gain	Flr Loss	s Gain	Fir Loss	Gain
Gross Ex Gross Ex	xp Wall B mponents R-Value h Shaded 3.5	22.93	11.62				oss Gain		Loss Ga	ain	Loss G	Sain	Loss Gain	374	Loss Gai	374 in 349	Loss Gair	Loss	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North	xp Wall B mponents R-Value h Shaded 3.5 East/West 3.5	5 22.93 5 22.93		Loss 53 12					Loss Ga		Loss G	Sain	Loss Gain	374	Loss Gai	374 in	-	Loss	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North	xp Wall B   mponents   R-Value   h Shaded   3.5   East/West   3.5   South   3.5	5 22.93 5 22.93	11.62				oss Gain		Loss Ga	ain	Loss G	Sain 1	Loss Gain	374	Loss Gai	374 in 349	Loss Gair	Loss	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North	xp Wall B   mponents   R-Value   h Shaded   3.5   East/West   3.5   South   3.5	22.93 22.93 22.93	11.62 29.56 22.50 23.66			,			Loss Ga	ain	Loss G	Sain 1	Loss Gain	374	Loss Gai	374 in 349	Loss Gair	Loss	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ea	xp Wall B   mponents   R-Value   h Shaded   3.5   East/West   3.5   South   3.5	5 22.93 5 22.93 5 22.93 9 40.90	11.62 29.56 22.50			,			Loss Ga	ain	Loss G	Sain 1	Loss Gain	374	Loss Gai	374 in 349	Loss Gair	Loss	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ea	xp Wall B mponents R-Value h Shaded 3.5 East/West 3.5 South 3.5 Windows 1.9	5 22.93 5 22.93 5 22.93 6 40.90 8 40.10	11.62 29.56 22.50 23.66			,			Loss Ga	ain	Loss G	Sain 1	Loss Gain	374	Loss Gai	374 in 349	Loss Gair	Loss	Gain		Gain		Gain		s Gain
Gross Ex Gross Ex Com North Ea	xp Wall B	5 22.93 5 22.93 5 22.93 0 40.90 8 40.10 0 20.35	11.62 29.56 22.50 23.66 88.23 2.75		15 156	26		35		ain 33	Loss G	975	Loss Gain 13 298 1:	374	Loss Gai	374 in 349	Loss Gair	Loss	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V	xp Wall B mponents R-Value h Shaded 3.5 East/West 3.5 South 3.5 Windows 1.9 Skylight 2.0 Doors 4.0 d walls A 17.0	5 22.93 5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 9 20.35 8 4.78	11.62 29.56 22.50 23.66 88.23 2.75	53 12	15 156	26	596 5	35	427	ain 33	Loss G	975	Loss Gain 13 298 1:	374	Loss Gai	374 in 349 52	Loss Gain	Loss i37	Gain		Gain		; Gain		Gain
Gross Ex Gross Ex Com North Existing V  Net exposed Net exposed	XP Wall B   R-Value	5 22.93 5 22.93 5 22.93 9 40.90 8 40.10 0 20.35 8 4.78 0 9.58	11.62 29.56 22.50 23.66 88.23 2.75 0.65	53 12	15 156	26	596 5	35	427	ain 33	Loss G	975	Loss Gain 13 298 1:	374	Loss Gai	374 in 349 52	Loss Gain	Loss i37	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V Net exposec Net exposed Exposed Cx	xp Wall B   mponents   R-Value   h Shaded   3.5	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 0 20.35 8 4.78 0 9.58 2 1.37	29.56 22.50 23.66 88.23 2.75 0.65 1.29	53 12	15 156	26	596 5	35	427	ain 33	Loss G	975	Loss Gain 13 298 1:	374	Loss Gai	374 in 349 52 222 322	Loss Gain	Loss i37	Gain		Gain		; Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed C Exposed C Exposed C	xp Wall B   mponents   R-Value   h Shaded   3.5	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 10 20.35 8 4.78 10 9.58 2 1.37 5 2.94	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29	53 12	15 156	26	596 5	35	427	ain 33	Loss G	975	Loss Gain 13 298 1:	374	Loss Gai	374 in 349 52 222 322	Loss Gain	Loss i37	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed C Exposed C Exposed C	xp Wall B mponents R-Value h Shaded 3.5.6 East/West 3.5 South 3.5 South 3.5 Skylight 2.0 Doors 4.0 d walls A 17.0 d walls B 8.5 Zeilings A 59.2 delflors 22.8 del Floors 22.8	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 10 20.35 8 4.78 10 9.58 2 1.37 5 2.94	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37	53 12	15 156	26	596 5	35	427	ain 33	Loss G	975	Loss Gain 13 298 1:	374	Loss Gai	374 in 349 52 222 322	Loss Gain	Loss i37	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Et Existing V  Net exposed Exposed Ct Exposed Ct Exposed Foundation Conductive Hei	xp Wall B mponents R-Value h Shaded 3.5. EastWest 3.5. South 3.5 Windows 1.9 Skylight 1.9 Doors 4.0 d walls A 17.0 d walls B 8.5 Deilings B 27.6 Edilings B 27.6 Edilings B 27.6 Ediloss 29.8 Eastloss	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 10 20.35 8 4.78 10 9.58 2 1.37 5 2.94	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37	53 12 343 16	15 156° 39 22°	26	596 5 2768 3	35	427 459	ain 33	Loss 6 7 7 7 7 7 1085	975	Loss Gain 1: 298 1: 3 298 1: 3 253 : 3 253	374	Loss Gai 688	374 in 349 52 222 322	1192 15 1539 2	Loss i37	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed Ct	xp Wall B  rponents R-Value h Shaded 3.5.8  South 3.5.8  South 3.5.8  South 3.5.8  Skylight 2.0  Doors 4.0.0  d walls A 17.0  d walls B 8.5.8  Cellings A 59.2.  Cellings B 27.6  de Floors 29.8  eatloss leat Loss	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 10 20.35 8 4.78 10 9.58 2 1.37 5 2.94	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37	53 12	15 156°	26 2579	596 5 2768 3	21 96	427	58 28 62 227	Loss G	975 77 147 5	Loss Gain 13 298 11 53 253 :	374 51 30 34 344	1644 2332	374 in 349 52 222 322 5	1192 15 1539 2 7	Loss 337	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed C Exposed C Exposed Foundation Conductive Hea Total Conductive H	xp Wall B mponents R-Value mponents R-Value h Shaded 3.5. South 3.5. South 3.5. Skylight 2.0 Doors 4.0 d walls A 17.0 d walls B 8.5. Pellings A 59.2 Pellings A 59.2 Pellings A 59.2 Sed Floors 29.8 atloss leat Loss Heat Casin	22.93 5 22.93 6 22.93 6 40.90 8 40.10 10 20.35 8 4.78 9 9.58 2 1.37 6 2.94 10 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17	53 12 343 16 28	15 156°339 22°3555 178°3	26 2579	596 5 2768 3 3364 9	21 96	427 459 886	ain 33	Loss 6 3 757 8 570 7 1085	975	Loss Gain 1: 298 1: 553 253 : 551 1:	374	1644 2332	374 in 349 52 222 322 5 571	Loss Gair 1192 15 1539 2 7 2738	Loss i37	Gain		Gain		Gain		S Gain
Gross Ex Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed C Exposed C Exposed Foundation Conductive Hea Total Conductive H	xp Wall B mponents R-Value h Shaded 3.5 aast/West 3.5 South 3.5 Swijhdr 2.0 Doors 4.0 d walls A 17.0 d walls B 8.5 cleilings A 9.5 cleilings B 27.6 d Floors 29.8 deat Loss Heat Gain Loss/Gain	22.93 5 22.93 5 22.93 9 40.90 3 40.10 9 20.35 8 4.78 9 9.58 2 1.37 5 2.94 9 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x	53 12 343 16	15 156°339 22°3555 178°3	26 2579	596 5 2768 3 3364 9	21 74 96	427 459	58 28 62 227	Loss 6 7 7 7 7 7 1085	975 77 147 5	Loss Gain 13 298 11 53 253 :	374 51 30 34 344	1644 2332	374 in 349 52 222 322 5	Loss Gair 1192 15 1539 2 7 2738	Loss 1337 108 139 1448	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Et  Existing V  Net exposed Exposed Ct Exposed Ct Exposed Total Conductive Het Total Conductive Air Leakage Heat Le	xp Wall B  rponents R-Value h Shaded 3.5. South 3.5. So	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 10 20.35 10 4.78 10 9.58 11 1.37 12 1.37 13 2.94 14 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x	53 12 343 16 28	15 156°339 22°3555 178°3	26 2579	596 5 2768 3 3364 9	21 74 96	427 459 886	58 28 62 227	Loss 6 3 757 8 570 7 1085	975 77 147 5	Loss Gain 1: 298 1: 553 253 : 551 1:	374 51 30 34 344	1644 2332	374 in 349 52 222 322 5 571	Loss Gair 1192 15 1539 2 7 2738	Loss 1337 108 139 1448	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed C Exposed C Exposed Foundation Conductive Hea Total Conductive H	xp Wall B mponents R-Value mponents R-Value h Shaded 3.5 East/West 3.5 South 3.5 Windows 1.5 Boors 4.0 Doors 4.0 d walls A 17.0 d walls B 8.5 Eellings A 59.2 Eellings A 59.2 Eellings A 29.8 ed Floors 29.8 atloss Heat Gain Loss/Gain Case 2 Case 2	22.93 5 22.93 6 22.93 9 40.90 8 40.10 1 20.35 8 4.78 0 9.58 2 1.37 5 2.94 0 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x	53 12 343 16 28	15 156°	26 2579	596 5 2768 3 3364 9 1445	21 74 96	427 459 886 381	58 28 62 227	Loss G 3 757 8 570 7 1085	975 177 147 5	Loss Gain 1: 298 1: 553 253 : 551 1: 237	374 51 30 34 344 85 9	1644 2332 1002	374 in 349 52 222 322 5 571 27	1192 15 1539 2 7 2738 17	Loss 1337 108 3 148 83	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed Cx Exposed Cx Exposed Cr Exposed Ct	xp Wall B  xp Walle R  h Shaded 3.5  ast/West 3.5  South 3.5  South 3.5  Skylight 2.0  Doors 4.0  d walls A 17.0  d walls B 8.5  cellings A 9.2  cellings B 27.6  del Floors 29.8  det A 100 29.8  det A 100 29.8  det A 100 29.8  det Coss 3 2 2  Case 2 2  Case 3 x	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 10 20.35 10 4.78 10 9.58 11 1.37 12 1.37 13 2.94 14 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x	53 12 343 16 28	15 156°339 22°3555 178°3	26 2579	596 5 2768 3 3364 9 1445	21 74 96	427 459 886	58 28 62 227	Loss 6 3 757 8 570 7 1085	975 77 147 5	Loss Gain 1: 298 1: 553 253 : 551 1: 237	374 51 30 34 344	1644 2332	374 in 349 52 222 322 5 571	1192 15 1539 2 7 2738 17	Loss 1337 108 139 1448	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Gross Ex Com North Et  Existing V  Net exposed Exposed Ci Exposed Ci Exposed Total Conductive Het Total Conductive Het Air Leakage Heat Lot Ventilation Heat Gair	xp Wall B  rponents R-Value  Robin S R-Value  1 South 3.5  South 3.5  South 3.5  South 3.5  South 3.5  Skylight 2.0  Doors 4.0  d walls A 17.0  d walls B 8.5  Cellings B 8.7  cellings B 27.6  del Floors 29.8  teat Loss  teat Loss  teat Loss  feat Gain  Case 1  Case 2  Case 3 x  in People	5 22.93 5 22.93 5 22.93 9 40.90 8 40.10 9 20.35 8 4.78 9 9.58 2 1.37 6 2.94 9 2.73 0 4295 0 .02 14.95	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x 0.0473 0.06 11.88 0.06 239	53 12 343 16 28 12	15 156° 339 22: 555 178: 26 8:	26 2 579	596 5 2768 3 3364 9 1445	21 74 96	427 459 886 381	58 28 62 227	Loss G 3 757 8 570 7 1085	975 177 147 5	Loss Gain 1: 298 1: 553 253 : 551 1: 237	374 51 30 34 344 855 9	1644 2332 1002	374 in 349 52 222 322 5 571 27 35	1192 11 1539 2 7 2738 11 1176 84 1	Loss 1337 108 108 108	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Gross Ex Com North Et Existing V  Net exposed Exposed Ct Exposed Ct Exposed Ct Exposed Foundation Conductive Hea Total Conductive Heat Lo Ventilation Heat Gail Appliance	xp Wall B mponents R-Value h Shaded 3.5 aast/West 3.5 South 3.5 Swindows 1.9 Skylight 2.0 Doors 4.0 d walls A 17.0 d walls B 8.5 cellings B 27.6 ede Floors 29.8 aatloss leat Loss letat Gase 1 Case 2 Case 3 x in People es Loads 1=26	22.93 5 22.93 6 22.93 9 40.90 8 40.10 1 20.35 8 4.78 0 9.58 2 1.37 5 2.94 0 2.73	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x 0.0473 0.06 11.88 0.06 239 4818	53 12 343 16 28	15 156°	26 2 579	596 5 2768 3 3364 9 1445	21 74 96	427 459 886 381	58 28 62 227	Loss G 3 757 8 570 7 1085	975 177 147 5	Loss Gain 1: 298 1: 553 253 : 551 1: 237	374 51 30 34 344 85 9	1644 2332 1002	374 in 349 52 222 322 5 571 27	1192 11 1539 2 7 2738 11 1176 84 1	Loss 1337 108 3 148 83	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Com North Ex Existing V  Net exposed Exposed Ct Exposed Ct Exposed Ct Exposed Ct Exposed Ct Exposed Ct Ventilation  Heat Gail Appliance Duct and F	xp Wall B  rponents R-Value h 5 haded 3.5 ast/West 3.5 South 3.5 South 3.5 Swijch 2.0 Doors 4.0 Doors 4.0 d walls A 17.0 d walls B 8.5 ceilings B 27.6 del Floors 29.8 astaloss leat Loss leat Gain coss/Gain Case 1 Case 2 Case 3 x in People less Loads 1 = .2! Pipe loss	5 22.93 5 22.93 6 22.93 9 40.90 8 40.10 9 20.35 8 4.78 9 58 2 1.37 5 2.94 9 2.73 0.4295 0.02 14.95 0.03	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x 0.0473 0.0473 0.06 239 4818 10%	53 12 343 16 28 12	15 156° 339 22° 555 1788 887 11° 120°	26 2 579	596 5 2768 3 3364 9 1445 103 12	21 74 96	427 459 886 381	58 28 62 227	Loss G 3 757 8 570 7 1085 2411 1036	975 177 147 5	Loss Gain 1:    298	374 51 30 34 344 855 9	1644 2332 1002 71	374 in 349 52 222 322 5 571 27 35	1192 11 1192 12 1539 2 7 2738 11 1176 84 1	Loss 1337 108 108 108	Gain		Gain		Gain		Gain
Gross Ex Gross Ex Gross Ex Com North Et  Existing V  Net exposed Exposed C Exposed C Exposed C Total Conductive Hea Total Conductive Hea Level HL Total  Appliance Duct and F Level HL Total 22,	xp Wall B  rponents R-Value  Robin S R-Value	5 22.93 5 22.93 5 22.93 9 40.90 8 40.10 9 20.35 8 4.78 9 9.58 2 1.37 6 2.94 9 2.73 0 4295 0 .02 14.95	11.62 29.56 22.50 23.66 88.23 2.75 0.65 1.29 0.64 1.37 0.17 x 0.0473 0.06 11.88 0.06 239 4818 10% er room	53 12 343 16 28 12	15 156° 339 22° 555 1788 887 11° 120°	26 26 579 26 579 36 5 5 5 1.0	596 5 2768 3 3364 9 1445	21 96 99 15 59	427 459 886 381	58 28 62 227	Loss G 3 757 8 570 7 1085	975 177 147 5	566  Loss Gain 13 298 1: 53 253 :: 551 1: 237 17	374 51 30 34 344 855 9	1644 2332 1002 71 1 1 3405	374 in 349 52 222 322 5 571 27 35	1192 15 1539 2 7 2738 11 1176 84 1 12 3998	Loss 1337 108 108 108	Gain		Gain		Gain		Gain

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

Mana Alex

David DaCosta

SB-12 Package
Package A1



62,257

30,087

btu/h

Total Heat Loss

Total Heat Gain

#### Heatloss/Gain Calculations CSA-F280-12

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

e-mail hvac@gtadesigns.ca

	Dellater	Danadan Walliantan	D-4-		lulu 04 0004					14/-	D	D	44	0.4 00 00	40.0				D 5
	Builder:	Bayview Wellington	Date	::	July 21, 2021 Barossa 6	<del></del>	Г			we	ather Data	Bradford	44	-9.4 86 22	48.2		Project		Page 5 J-00041
2012 OBC	Project:	Green Valley East	Mode	l:	S38-6			System	1	H	eat Loss ^T 8	1.4 deg. F	Ht gain ^T	11 deg. F	GTA	A: 2893	Layout		B-07353
Level 3			MAST	ENS	BED 2	BATH		BED 3		BE	D 4	ENS 2	LAUNI	)	wic				
Run ft. exposed wall A	L	32 /		3 A	12 A	6 A		12 A		39 A		19 A	9 A	12 A		Α		Α	
Run ft. exposed wall B				В	В	В		В		В		В	В	В		В		В	
Ceiling height		11.0	9.		9.0	9.0		9.0		11.0		0.0	9.0	9.0		9.0	9.		
Floor area		324 /		9 Area	181 Area	72 Area		182 Area		321 Area		79 Area	66 Area	88 Ar	ea	Area		Area	
Exposed Ceilings A		324 /		9 A	181 A	72 A		182 A		321 A		79 A	66 A	88 A		A		A	
Exposed Ceilings B Exposed Floors			B Flr	B Flr	B Flr	B Flr		B 73 Flr		B 190 Flr		B 10 Flr	B Fir	B Fl		B Fir		B Flr	
Gross Exp Wall A		352	20		108	54		73 FII 108		429		190	81	108		FII		FII	
Gross Exp Wall B		332	20	•	100	34		100		423		.50	01	100					
Components	R-Values Los	ss Gain L	Loss Gain	Loss Gai	in Loss Gair	Loss Ga	ain	Loss	ain :	Los	s Gain	Loss Gain	Loss	Gain Lo	ss Gair	n Loss	Gain	Loss	Gain
North Shaded	3.55	22.93 11.62									136 221		7 161	81					
East/West	3.55	22.93 29.56 28	642 828 1		473					51 1	169 1507	37 848 109	4						
South	3.55	22.93 22.50	1	6 367	360 16 367 3	860 8 183	180	16 367	360										
Existing Windows	1.99 2.03	40.90 23.66 40.10 88.23																	
Skylight Doors	4.00	20.35 2.75																	
Net exposed walls A	17.03	4.78 0.65 324	1549 209 17	5 836	113 92 440	59 46 220	30	92 440	59	359 17	716 232 1	53 731 9	9 74 354	48 108	516	70			
Net exposed walls B	8.50	9.58 1.29																	
Exposed Ceilings A	59.22	1.37 0.64 324	445 208 12	9 177	83 181 249 ·	116 72 99	46	182 250	117	321	141 206	79 109 5	1 66 91	42 88	121	56			
Exposed Ceilings B	27.65	2.94 1.37								400		40 0-							
Exposed Floors	29.80	2.73 0.17						73 199	12	190	519 32	10 27	2						
Foundation Conductive Heatloss Heat Loss			2636	1748	1055	502		1256		4	281	1716	605		637				
Total Conductive Heat Coss Heat Gain			1245			536	256	.200	548		2198	124		172		126			
Air Leakage Heat Loss/Gain		0.3002 0.0473	791 59	525		25 151	12	377	26	13	285 104	515 5		8	191	6			
Case 1		0.02 0.06																	
Ventilation Case 2		14.95 11.88														-			
Case 3 Heat Gain People	х	0.03 0.06 239 2	81 77 478	53		33 15 239	16	38	34 239	1	131 136 239	52 7	7 19	11	19	8			
Appliances Loads	1 =.25 per		470						200		200								
Duct and Pipe loss		10%								1 !	557 244								
Level HL Total 19,769		I HL for per room	3508	2326	1405	668		1672		62	254	2283	805		848				
Level HG Total 12,477	I otal H	G per room x 1.3	2417		1484 10	083	369		1102		3798	179	5	247		182			
	1																		
Level 4																			
Run ft. exposed wall A			A	Α	Α	Α		Α		Α		Α	Α	A		Α		Α	
Run ft. exposed wall B		E	В	В	В	В		В		В		В	В	В		В		В	
Ceiling height						Area													
Floor area Exposed Ceilings A			Area A	Area A	Area A	Area A		Area A		Area A	l	Area A	Area A	Ar A	ea	Area A		Area A	
Exposed Ceilings A Exposed Ceilings B			В	В	В	В		В		В		В	В	В		В		В	
Exposed Floors			Flr	Fir	Fir	Flr		Fir		Fir		Fir	Flr	Fli		Flr		Flr	
Gross Exp Wall A																			
Gross Exp Wall B	5 V . I.	<u> </u>																	
Components North Shaded		22.93 11.62	Loss Gain	Loss Gai	in Loss Gair	Loss Ga	ain	Loss	Sain	Los	s Gain	Loss Gain	Loss	Gain Lo	ss Gair	n Loss	Gain	Loss	Gain
North Shaded East/West	3.55 3.55	22.93 11.62																	
South	3.55	22.93 22.50																	
Existing Windows	1.99	40.90 23.66																	
Skylight	2.03	40.10 88.23																	
Doors Net exposed walls A	4.00 17.03	20.35 2.75 4.78 0.65															4		
Net exposed walls A Net exposed walls B	8.50	9.58 1.29																	
Exposed Ceilings A	59.22	1.37 0.64																	
Exposed Ceilings B	27.65	2.94 1.37																	
Exposed Floors	29.80	2.73 0.17																	
Foundation Conductive Heatloss																			
Total Conductive Heat Loss Heat Gain																			
Air Leakage Heat Loss/Gain		0.0000 0.0473																	
Case 1		0.00 0.06																	
Ventilation Case 2		14.95 11.88																	
Case 3	х	0.03 0.06																	
Heat Gain People	1 = 25 ===	239 cent 4818																	
Appliances Loads Duct and Pipe loss	1 =.25 per	10%																	
Level HL Total 0	Tota	I HL for per room																	
Level HG Total 0		G per room x 1.3																	
																		. B	
T	ľ			I review and	take responsibility for t	he design work and a	am qua	alified in the app	propriate	category	as an "other de	esigner" under					SB-1	2 Packag	je

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

Name Met

David DaCosta

Package A1



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

System Design Option
Exhaust only / forced air system

HRV WITH DUCTING / forced air system

Part 6 design

HRV simplified connection to forced air system HRV full ducting/not coupled to forced air system

1 2

3 x

Project # Layout #

David DaCosta

Page 6 PJ-00041 JB-07353

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

Package: Project:	Package A1 Bradford	Model:	S38-6	
	RESIDENTIAL MECHANICAL			
	For systems serving one dwelling unit & cont			
	Location of Installation	Total	Ventilation Capacity 9.32.3.3	3(1)
Lot #	Plan #	Bsmt & Master Bdrm	2 @ 21.2 cfm	n 42.4 cfm
Township	Bradford	Other Bedrooms Bathrooms & Kitcher	3 @ 10.6 cfm	n 31.8 cfm
Roll #	Permit #	Other rooms	5 @ 10.6 cfm Total	53 cfm 180.2
Address				
		Principa	I Ventilation Capacity 9.32.3	3.4(1)
	Builder	·	, ,	. ,
Name	Bayview Wellington	Master bedroom Other bedrooms	1 @ 31.8 cfm 3 @ 15.9 cfm	
Address	26)	<b>33.</b> 2.22	Total	79.5
City				
Tal	Eav	Prir Make	ncipal Exhaust Fan Capacity  Model	
Tel	Fax			Location
	Installing Contractor	VanEE	V150H75NS	Base
Name	Installing Contractor	140 cfm		Sones or Equiv.
Address			Heat Recovery Ventilator	
		Make	VanEE	
City		Model	V150H75NS 140 cfm high	ofm low
Tel	Fax	Sensible efficiency @		80 cfm low 60%
		Sensible efficiency @	0 deg C	<u>75%</u>
			alance HRV/ERV to within 10	
0)   V	Combustion Appliances 9.32.3.1(1) Direct vent (sealed combustion) only	Supp	lemental Ventilation Capaci	ty
a) <u>x</u> b)	Positive venting induced draft (except fireplaces)	Total ventilation capa	acity	180.2
c)	Natural draft, B-vent or induced draft fireplaces	Less principal exhaus	•	79.5
d) e)	Solid fuel (including fireplaces) No combustion Appliances	REQUIRED supplem	nental vent. Capacity	100.7 cfm
o)	140 combustion / ppilations			
			upplemental Fans 9.32.3.5.	
1 1	Heating System	Location	cfm Model	Sones
X	Forced air Non forced air	Ens Ens 2	50 XB50 50 XB50	0.3 0.3
	Electric space heat (if over 10% of heat load)	Bath	50 XB50	0.3
	,			
	House Type 9.32.3.1(2)			
l x	Type a) or b) appliances only, no solid fuel	all fans HVI listed	Make Broan	or Equiv.
II	Type I except with solid fuel (including fireplace)			
III L	Any type c) appliance	Lhoroby cortifue that the	Designer Certification his ventilation system has bee	an designed
IV Other	Type I or II either electric space heat Type I, II or IV no forced air	, ,	nis ventilation system nas bee ne Ontario Building Code.	in designed

	Designer (	Certification				
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.						
in accordance w	ith the Ontario B	uliding Code.				
Name	David D	aCosta				
	Dane	166				
Signature						
HRAI#	5190	BCIN#	32964			
Date	July 21	, 2021				

# ♦GTA\DESIGNS

### **Energy Efficiency Design Summary: Prescriptive Method**

(Building Code Part 9, Residential)

Page 7

Project # PJ-00041 Layout # JB-07353

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 b	y Princip	pal Authori	ty							
Application	n No:						tification Nun	nber						
Α.	Project Information													
Building n	umber, street name			Barossa	6			Unit nur	nber	Lot/Con				
				S38-6										
Municipali	y Bradford			Postal code		Reg. Plan	number / oth	er desci	ription	•				
В.	Prescriptive Compliance [indica	ate the bui	lding cod	e complianc	e packa	kage being employed in the house design]								
	SB-12 Prescriptive (input design pa	ckage):			Pack	ckage A1 Table: 3.1.1.2.A								
C.	Project Design Conditions													
	Climatic Zone (SB-1):		Heat. E	quip. Effic	iency			Spa	ace Heating F	uel Sourc	е			
<b>✓</b>	Zone 1 (< 5000 degree days)	Zone 1 (< 5000 degree days)				~	Gas		Propane		Solid Fuel			
	Zone 2 (≥ 5000 degree days)			34% < 92% /	AFUE		Oil		Electric		Earth Energy			
F	Ratio of Windows, Skylights & Glas	s (W, S	& G) to \	Wall Area				Othe	r Building Ch	aracterist	ics			
Area	$f \text{ Walls} = \frac{449.73}{100} \text{ m}^2 \text{ or } \frac{4840.9}{100}$	ft²				☐ Log/P	ost&Beam		ICF Above	Grade	☐ ICF Basement			
Aleao	1 Walls = 443.75 III 01 4040.5		W,S &	.G % =	9.3%	☐ Slab-	on-ground	1	Walkout Ba	sement				
						☑ Air Co	onditioning		Combo Uni	t				
Area of	Area of W, S & G = $\frac{41.712}{100}$ m <sup>2</sup> or $\frac{449.0}{100}$ ft <sup>2</sup>			Vindow [	Yes	☐ Air S	ourced Heat	Pump	(ASHP)					
	Avera			aging 🗔	No	☐ Grou	nd Source H	leat Pu	mp (GSHP)					
D.	Building Specifications [provide	values a	nd ratings	s of the ener	gy effici	ency comp	onents prop	osed]						
	Energy Efficiency Substitutions													
	ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))													
	Combined space heating and domestic			-										
	Airtightness substitution(s)		Table 3.1		equired:									
	Airtightness test required		Table 3.1	1.1.4.C	equired:									
(F	Refer to Design Guide Attached)				equired:	ed: Permitted Substitution:								
	Building Component			SI/R-Values n U-Value¹	or		Build	ding Co	omponent		Efficiency Ratings			
Therma	l Insulation	Nom	ninal	Effect	ive	Window	s & Door	<b>'S</b> Prov	ide U-Value <sup>(1)</sup> c	r ER rating				
Ceiling v	vith Attic Space	6	0	59.2	2	Windows	S/Sliding Gl	ass Do	ors		1.6			
Ceiling v	vithout Attic Space	3	1	27.6	5	Skylights	i				2.8			
Exposed	Floor	3	1	29.8	0	Mechan	icals							
	oove Grade	22		17.0			Equip.(AFU				96%			
Baseme	nt Walls		20.0ci	21.1	2	HRV Effi	ciency (SR	E% at 0	)°C)		75%			
Slab (all	>600mm below grade)	х	(	х		DHW He	ater (EF)				0.80			
_ `	ge only ≤600mm below grade)	10		11.1		· `		`	% efficiency))		#Showers 2			
	≤600mm below grade, or heated)	10		11.1	3	Combine	d Heating	System	1					
` '	e to be provided in either W/(m²·K) or Bt	, ,												
E.	Designer(s) [name(s) & BCIN(s), if	applicable	, of perso			mation her		antiate t	hat design mee	ts building	code]			
Name	5 115 6			B	CIN		Signature		11	11/				
	David DaCosta				329	964			Mane	/4C=	₹ 7			



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

Page Project # PJ-00041 Layout # JB-07353

Package: Package A1 System: System 1 **Bradford** Model:

#### Project: S38-6 Air Leakage Calculations **Building Air Leakage Heat Loss Building Air Leakage Heat Gain** HL^T В LRairh Vb HLleak В LRairh ٧b HG^T **HG Leak** 0.018 0.393 37672 81.4 21672 0.018 0.097 37672 Levels Air Leakage Heat Loss/Gain Multiplier Table (Section 11) 1 2 3 4 Level Building Level Conductive Air Leakage Heat Loss Level (LF) (LF) (LF) (LF) Multiplier Factor (LF) **Heat Loss** Level 1 0.5 9266 1.1694 1.0 0.6 0.5 0.4 Level 2 0.4295 0.3 15138 0.3 0.3 0.4 21672 0.3002 Level 3 0.2 14436 0.2 0.2 Level 4 0 0.0000 Air Leakage Heat Gain Levels this Dwelling **HG LEAK** 720 0.0473 3 **BUILDING CONDUCTIVE HEAT GAIN** 15222 Ventilation Calculations **Ventilation Heat Loss Ventilation Heat Gain** Vent Vent **Ventilation Heat Loss** Ventilation Heat Gain **PVC** (1-E) HRV HLbvent PVC HG^T **HGbvent** 1.08 81.4 0.17 1188 79.5 944 79.5 11 Case 1 Case 1 **Ventilation Heat Loss (Exhaust only Systems)** Ventilation Heat Gain (Exhaust Only Systems) Case 1 - Exhaust Only Case 1 - Exhaust Only Multiplier Case Case LVL Cond. HL HGbvent 944 Level LF HLbvent Multiplier 0.06 Level 1 0.5 9266 0.06 Building 15222 Level 2 15138 0.3 0.02 1188 14436 Level 3 0.2 0.02 Level 4 0 0 0.00 Case 2 Case 2 **Ventilation Heat Loss (Direct Ducted Systems)** Ventilation Heat Gain (Direct Ducted Systems) Case Multiplier Multiplier C HL^T (1-E) HRV С HG^T 14.95 11.88 1.08 81.4 0.17 1.08 11 Case 3 Case 3 Ventilation Heat Loss (Forced Air Systems) **Ventilation Heat Gain (Forced Air Systems)** Case **HLbvent** Vent Heat Gain Multiplier Multiplier HGbvent HG\*1.3 Total Ventilation Load 1188 0.03 944 0.06 944 Foundation Conductive Heatloss Level 1 Level 1 2402 Watts 8197 Btu/h **Foundation Conductive Heatloss Level 2** Level 2 Watts Btu/h Slab on Grade Foundation Conductive Heatloss Watts Btu/h Walk Out Basement Foundation Conductive Heatloss Watts Btu/h

# **Envelope Air Leakage Calculator**

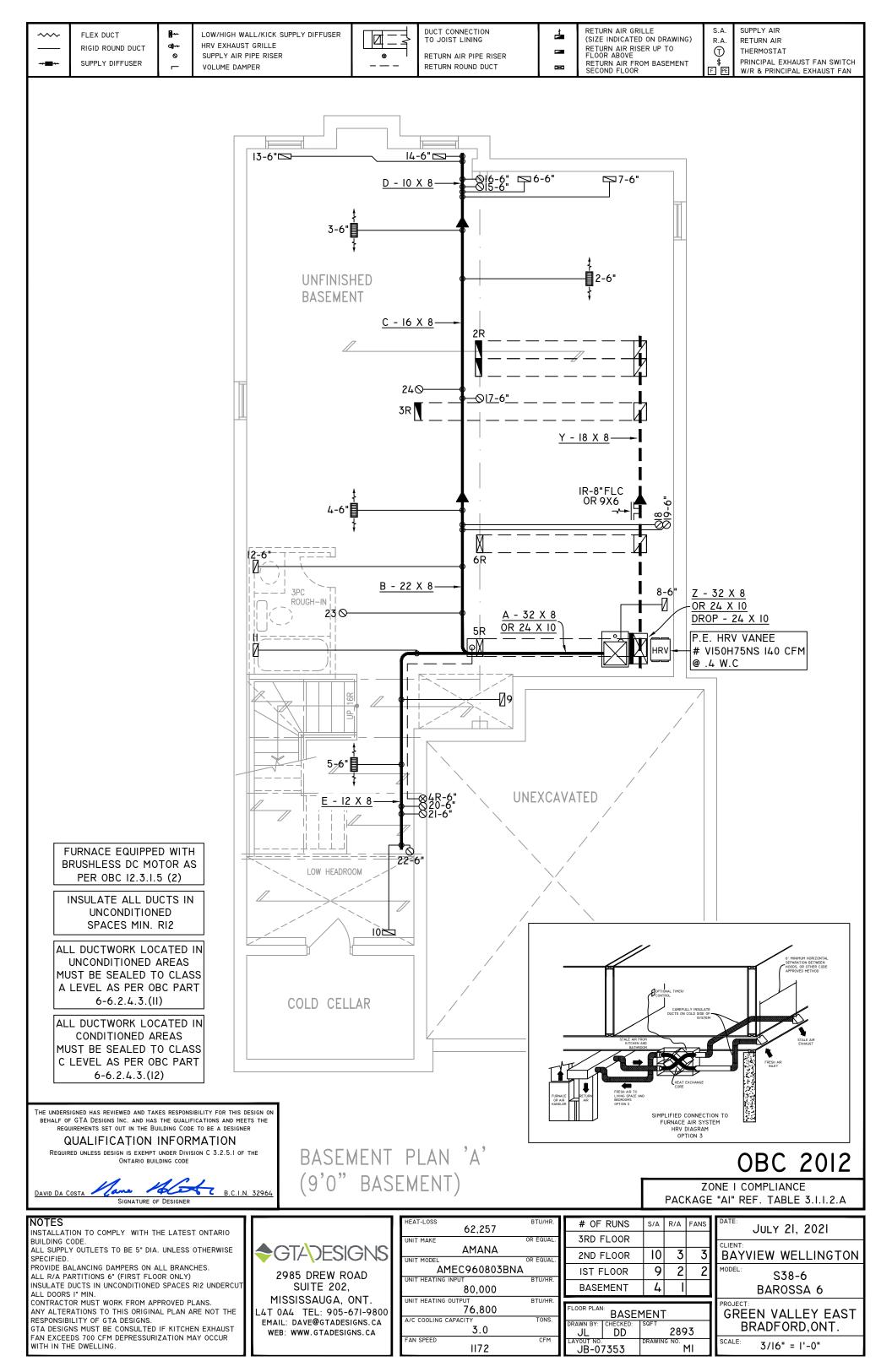
Supplemental tool for CAN/CSA-F280

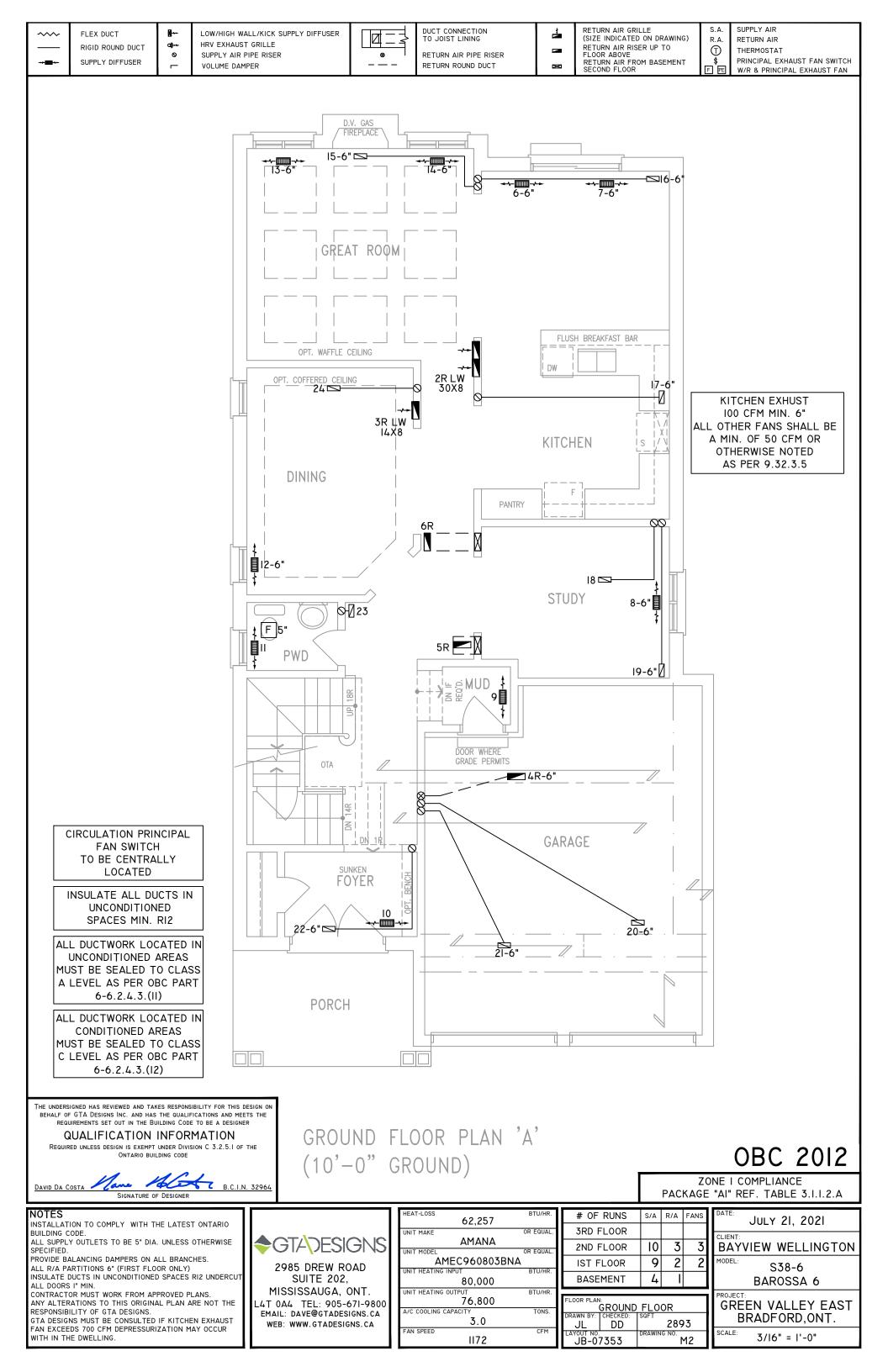
Weather Station	Description
Province:	Ontario
Region:	Bradford ▼
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Local Shie	lding
Building Site:	Suburban, forest ▼
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	8.53
Building Confi	guration
Type:	Detached
Number of Stories:	Two
Foundation:	Shallow
House Volume (m³):	1066.87
Air Leakage/Vo	entilation
Air Tightness Type:	Present (1961-) (ACH=3.57)
Custom BDT Data:	322.44 cm <sup>2</sup> 3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply: Total Exhaust:  39.75  39.75
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Heating Air Leakage Rate (ACH/H):	0.393
Cooling Air Leakage Rate (ACH/H):	0.097

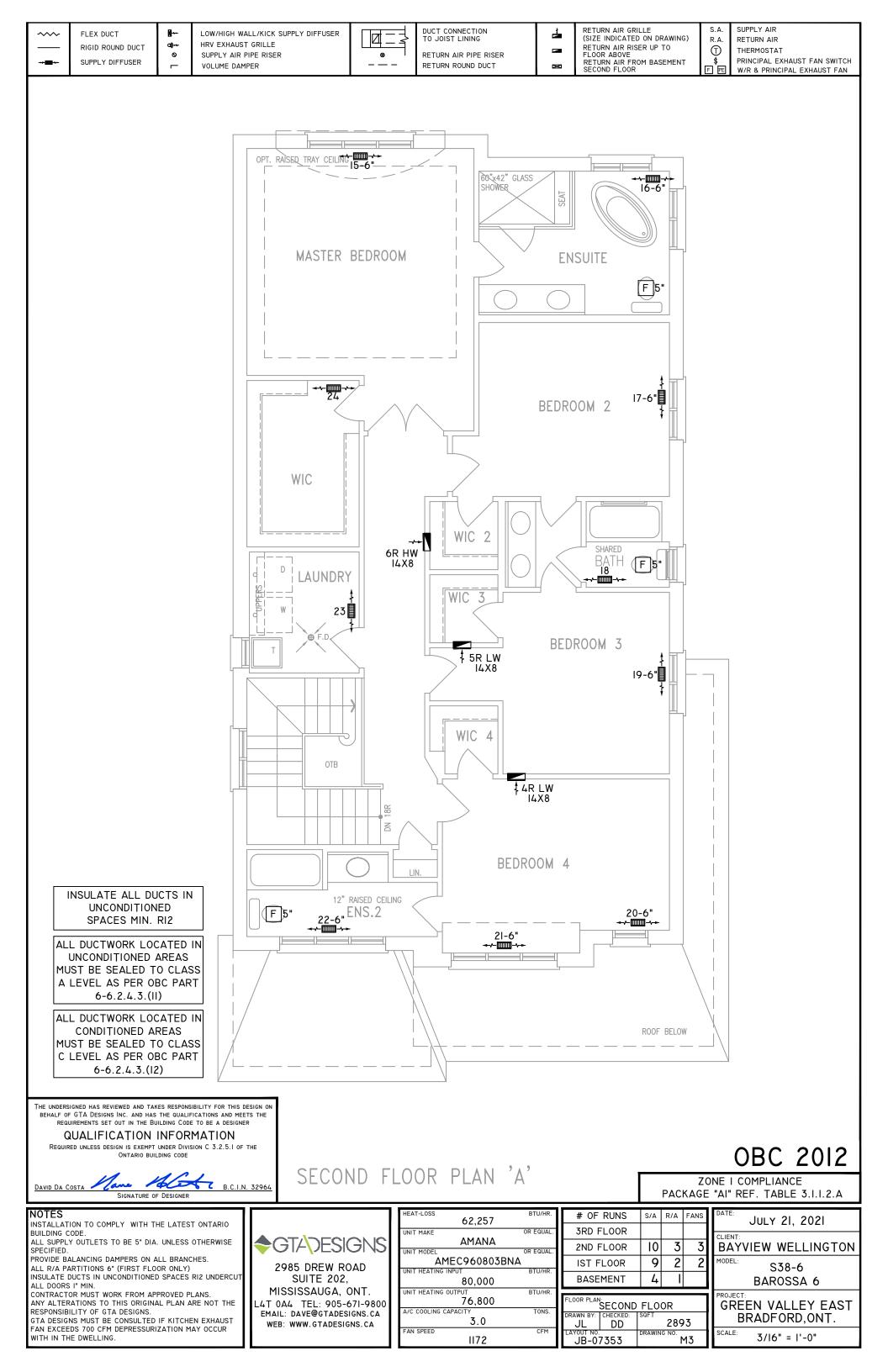
## **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

Weat	her Sta	tion Description						
Province:		Ontario						
Region:		Bradford ▼						
	Site D	escription						
Soil Conductivity:		High conductivity: moist soil ▼						
Water Table:		Normal (7-10 m, 23-33 Ft) ▼						
Foundation Dimensions								
Floor Length (m):	19.33							
Floor Width (m):	5.66							
Exposed Perimeter (m):	49.99							
Wall Height (m):	3.05							
Depth Below Grade (m):	1.22	Insulation Configuration						
Window Area (m²):	2.60							
Door Area (m²):	1.95							
	Radi	ant Slab						
Heated Fraction of the Slab:	0							
Fluid Temperature (°C):	33							
	Desig	n Months						
Heating Month	1							
	Founda	ation Loads						
Heating Load (Watts):		2402						







FLEX DUCT
RIGID ROUND DUCT
SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER

HRV EXHAUST GRILLE
SUPPLY AIR PIPE RISER
VOLUME DAMPER

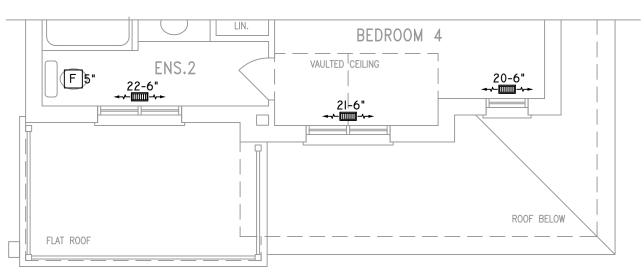


DUCT CONNECTION
TO JOIST LINING

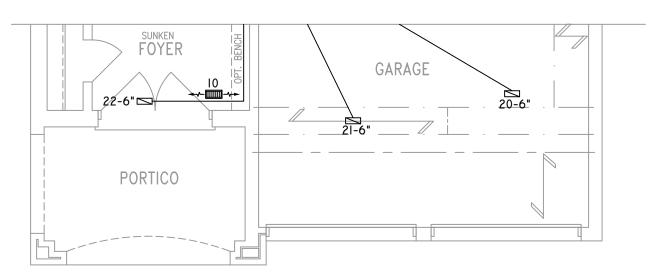
RETURN AIR PIPE RISER
RETURN ROUND DUCT

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR S.A. R.A. T

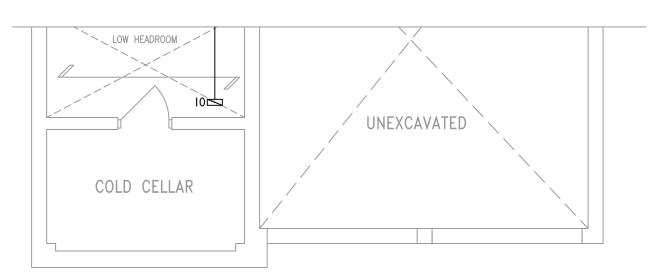
SUPPLY AIR
RETURN AIR
THERMOSTAT
PRINCIPAL EXHAUST FAN SWITCH
W/R & PRINCIPAL EXHAUST FAN



PARTIAL SECOND FLOOR PLAN 'B'



PARTIAL GROUND FLOOR PLAN 'B' (10'-0" GROUND)



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

ID DA COSTA

B.C.I.N. 32964

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.

MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA WEB: WWW.GTADESIGNS.CA

62,257	BIU/HR.
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	Г					
3RD FLOOR				ŀ					
2ND FLOOR	10	3	3						
IST FLOOR	9	2	2	Ī					
BASEMENT	4	-							
				ı,					
FLOOR PLAN: PARTIAL PLAN(S)									
	SQFT								

DD

JB-07353

2893

M4

ANS	JULY 21, 2021
3	CLIENT: BAYVIEW WELLINGTON
2	MODEL: S38-6
	BAROSSA 6
	PROJECT: GREEN VALLEY EAST

BRADFORD, ONT.

3/16" = 1'-0"

FLEX DUCT RIGID ROUND DUCT SUPPLY DIFFUSER

LOW/HIGH WALL/KICK SUPPLY DIFFUSER HRV EXHAUST GRILLE **a}**→ ⊗ SUPPLY AIR PIPE RISER VOLUME DAMPER



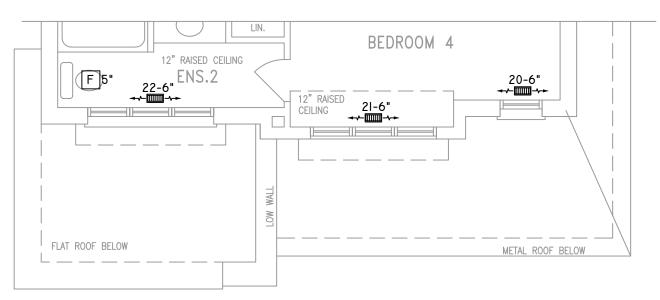
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

4

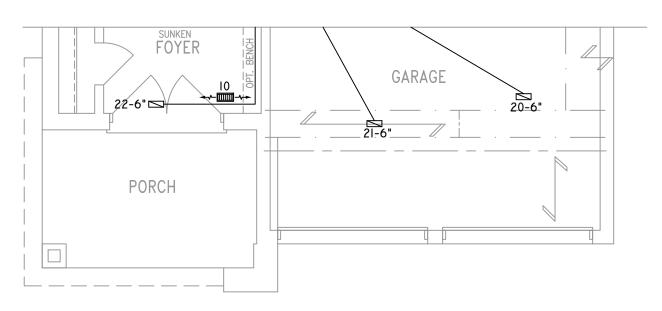
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A 1

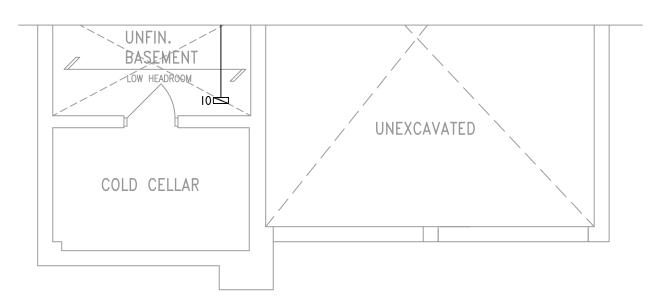
SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH W/R & PRINCIPAL EXHAUST FAN



### PARTIAL SECOND FLOOR PLAN 'C'



# PARTIAL GROUND FLOOR PLAN 'C' (10'-0" GROUND)



PARTIAL BASEMENT FLOOR PLAN 'C'

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

Ane 166 B.C.I.N. 32964

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

### NOTES

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UNIT MAKE	OR EQUAL.
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A/C COOLING CAPACITY	TONS.
3.0	
FAN SPEED	CFM
1172	

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	3	3
IST FLOOR	9	2	2
BASEMENT	4		
FLOOR PLAN: PARTIAL PLAN(S)			
DRAWN BY: CHECKED:	SQFT		

DD

JB-07353

2893

DRAWING NO. M5

BAYVIEW WELLINGTON
MODEL: S38-6
BAROSSA 6
GREEN VALLEY EAST BRADFORD,ONT.

3/16" = 1'-0"

JULY 21, 2021

LOW/HIGH WALL/KICK SUPPLY DIFFUSER FLEX DUCT HRV EXHAUST GRILLE **a]**→ 0 RIGID ROUND DUCT SUPPLY AIR PIPE RISER SUPPLY DIFFUSER VOLUME DAMPER

8

TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

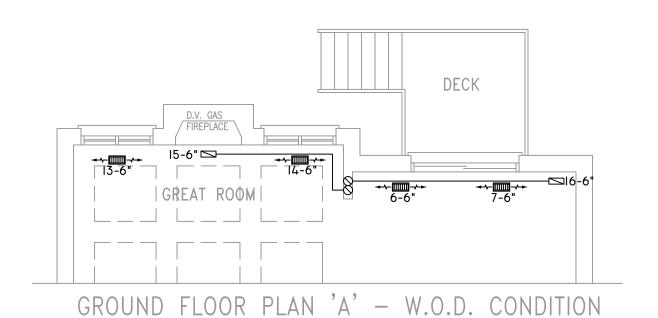
DUCT CONNECTION

j

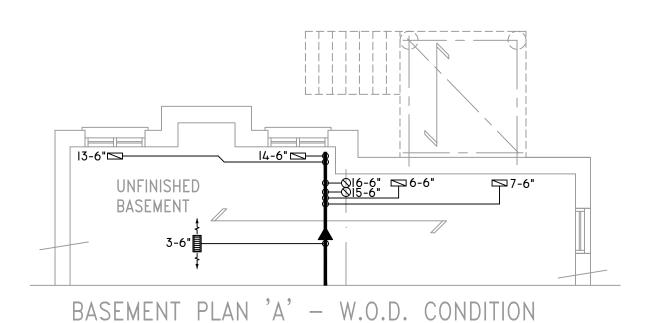
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A. 1

SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH



ELEV. 'B' & 'C' SIMILAR



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 Ane 166 B.C.I.N. 32964

OBC 2012

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

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ELEV. 'B' & 'C' SIMILAR

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_			
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	3	3
IST FLOOR	9	2	2
BASEMENT	4	- 1	
FLOOR PLAN:			
PARTIAL PLAN(S)			
DRAWN BY: CHECKED: SOFT			

2893

M6

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JB-07353

JULY 21, 2021
CLIENT: BAYVIEW WELLINGTON
MODEL: S38-6
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