

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		<b>Barossa 6</b> <b>S38-6</b>	Lot:
Municipality		Postal code	Plan number/ other description
<b>Bradford</b>			
B. Individual who reviews and takes responsibility for design activities			
Name		Firm	
<b>David DaCosta</b>		<b>gtaDesigns Inc.</b>	
Street address		Unit no.	Lot/con.
<b>2985 Drew Road, Suite 202</b>			
Municipality	Postal code	Province	E-mail
<b>Mississauga</b>	<b>L4T 0A4</b>	<b>Ontario</b>	<a href="mailto:dave@gtadesigns.ca">dave@gtadesigns.ca</a>
Telephone number	Fax number	Cell number	
<b>(905) 671-9800</b>	<b>(647) 494-9643</b>	<b>(416) 268-6820</b>	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1 of Division C]			
<input type="checkbox"/> House	<input checked="" type="checkbox"/> HVAC – House	<input type="checkbox"/> Building Structural	
<input type="checkbox"/> Small Buildings	<input type="checkbox"/> Building Services	<input type="checkbox"/> Plumbing – House	
<input type="checkbox"/> Large Buildings	<input type="checkbox"/> Detection, Lighting and Power	<input type="checkbox"/> Plumbing – All Buildings	
<input type="checkbox"/> Complex Buildings	<input type="checkbox"/> Fire Protection	<input type="checkbox"/> On-site Sewage Systems	
Description of designer's work		Project #:	<b>PJ-00204</b>
<b>Model Certification</b>		Layout #:	<b>JB-04483</b>
Heating and Cooling Load Calculations	Main	X	Builder
Air System Design	Alternate		Project
Residential mechanical ventilation Design Summary	Area Sq ft:	2891	Model
Residential System Design per CAN/CSA-F280-12			SB-12
Residential New Construction - Forced Air			
			<b>Bayview Wellington</b> <b>Green Valley East</b> <b>Barossa 6</b> <b>S38-6</b> <b>Package A1</b>
D. Declaration of Designer			
I, <u>David DaCosta</u> declare that (choose one as appropriate):			
(print name)			
<input type="checkbox"/> I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4 Division C of the Building Code. I am qualified, and the firm is registered in the appropriate classes/categories.			
Individual BCIN: _____			
Firm BCIN: _____			
<input checked="" type="checkbox"/> I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5 of Division C, of the Building Code.			
Individual BCIN: <u>32964</u>			
Basis for exemption from registration: <u>Division C 3.2.4.1. (4)</u>			
<input type="checkbox"/> The design work is exempt from the registration and qualification requirements of the Building Code.			
Basis for exemption from registration and qualification:			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge.			
2. I have submitted this application with the knowledge and consent of the firm.			
<u>March 12, 2018</u>			
Date		Signature of Designer	

**NOTE:**

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d), of Division C, Article 3.2.5.1. of Division C and all other persons who are exempt from 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, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited licence to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

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<b>Heat loss and gain calculation summary sheet</b>		CSA-F280-M12 Standard Form No. 1
These documents issued for the use of <b>Bayview Wellington</b>		Layout No. <b>JB-04483</b>
and may not be used by any other persons without authorization. Documents for permit and/or construction are signed in red.		
Building Location		
Address (Model): <b>S38-6</b>	Site: <b>Green Valley East</b>	
Model: <b>Barossa 6</b>	Lot:	
City and Province: <b>Bradford</b>	Postal code:	
Calculations based on		
Dimensional information based on: <b>VA3 Design Jan/2018</b>		
Attachment: <b>Detached</b>	Front facing: <b>East/West</b>	Assumed? <b>Yes</b>
No. of Levels: <b>3</b> Ventilated? <b>Included</b>	Air tightness: <b>1961-Present (ACH=3.57)</b>	Assumed? <b>Yes</b>
Weather location: <b>Bradford</b>	Wind exposure: <b>Sheltered</b>	
HRV? <b>LifeBreath</b> <b>RNC155</b>	Internal shading: <b>Light-translucent</b>	Occupants: <b>5</b>
Sensible Eff. at -25C <b>71%</b> Apparent Effect. at -0C <b>84%</b>	Units: <b>Imperial</b>	Area Sq ft: <b>2891</b>
Sensible Eff. at -0C <b>75%</b>		
Heating design conditions		Cooling design conditions
Outdoor temp <b>-9.4</b> Indoor temp: <b>72</b> Mean soil temp: <b>48</b>	Outdoor temp <b>86</b> Indoor temp: <b>75</b> Latitude: <b>44</b>	
Above grade walls		Below grade walls
Style A: <b>As per OBC SB12 Package A1 R 22</b>	Style A: <b>As per OBC SB12 Package A1 R 20ci</b>	
Style B: <b>Existing Walls (When Applicable) R 12</b>	Style B:	
Style C:	Style C:	
Style D:	Style D:	
Floors on soil		Ceilings
Style A: <b>As per Selected OBC SB12 Package A1</b>	Style A: <b>As per Selected OBC SB12 Package A1 R 60</b>	
Style B:	Style B: <b>As per Selected OBC SB12 Package A1 R 31</b>	
Style C:	Style C:	
Exposed floors		Doors
Style A: <b>As per Selected OBC SB12 Package A1 R 31</b>	Style A: <b>As per Selected OBC SB12 Package A1 R 4.00</b>	
Style B:	Style B:	
Windows		Skylights
Style A: <b>As per Selected OBC SB12 Package A1 R 3.55</b>	Style A: <b>As per Selected OBC SB12 Package A1 R 2.03</b>	
Style B: <b>Existing Windows (When Applicable) R 1.99</b>	Style B:	
Style C:	Style C:	
Style D:	Style D:	
Attached documents: <b>As per Shedule 1</b>	<b>Heat Loss/Gain Caculations based on CSA-F280-12 Effective R-Values</b>	
Notes:	<b>Residential New Construction - Forced Air</b>	
<b>Calculations performed by</b>		
Name: <b>David DaCosta</b>	Postal code: <b>L4T 0A4</b>	
Company: <b>gtaDesigns Inc.</b>	Telephone: <b>(905) 671-9800</b>	
Address: <b>2985 Drew Road, Suite 202</b>	Fax: <b>(416) 268-6820</b>	
City: <b>Mississauga</b>	E-mail: <b>dave@gtadesigns.ca</b>	

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SB-12 Package A1

Builder: Bayview Wellington

Date: March 12, 2018

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.

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Project: Green Valley East

Model: Barossa 6 S38-6

System 1

Individual BCIN: 32964 *David DaCosta* David DaCosta

Project # PJ-00204  
Layout # JB-04483

DESIGN LOAD SPECIFICATIONS

AIR DISTRIBUTION & PRESSURE

FURNACE/AIR HANDLER DATA:

BOILER/WATER HEATER DATA:

A/C UNIT DATA:

Level 1 Net Load	15,932 btu/h
Level 2 Net Load	17,220 btu/h
Level 3 Net Load	17,528 btu/h
Level 4 Net Load	0 btu/h
<b>Total Heat Loss</b>	<b>50,680 btu/h</b>
Total Heat Gain	26,976 btu/h
Combo System HL + 10%	55,748 Btu/h
Building Volume Vb	33896 ft <sup>3</sup>
Ventilation Load	1,118 Btu/h
Ventilation PVC	79.5 cfm
Supply Branch and Grill Sizing	

Equipment External Static Pressure	0.5 "w.c.
Additional Equipment Pressure Drop	0.225 "w.c.
Available Design Pressure	0.275 "w.c.
Return Branch Longest Effective Length	300 ft
R/A Plenum Pressure	0.138 "w.c.
S/A Plenum Pressure	0.14 "w.c.
Heating Air Flow Proportioning Factor	0.0231 cfm/btuh
Cooling Air Flow Proportioning Factor	0.0357 cfm/btuh
R/A Temp	70 deg. F.
S/A Temp	116 deg. F.
Diffuser loss	0.01 "w.c.

Make	Amana
Model	AMEC960603BNA
Input Btu/h	60000
Output Btu/h	57600
E.s.p.	0.50 " W.C.
Water Temp	deg. F.
AFUE	96%
Aux. Heat	
SB-12 Package	Package A1
Temp. Rise>>>	46 deg. F.

Make	Type	Amana	2.5 Ton
Model		Cond.-----	2.5
Input Btu/h		Coil -----	2.5
Output Btu/h			
Min. Output Btu/h	AWH		
Blower DATA:			
Blower Speed Selected:	W2	Blower Type	ECM
		(Brushless DC OBC 12.3.1.5.(2))	
Heating Check	1170 cfm	Cooling Check	963 cfm
Selected cfm>	1170 cfm	Cooling Air Flow Rate	963 cfm

Amana	2.5 Ton
Cond.-----	2.5
Coil -----	2.5
Blower Type	ECM
(Brushless DC OBC 12.3.1.5.(2))	
Cooling Check	963 cfm
Cooling Air Flow Rate	963 cfm

S/A Outlet No.	Level 1													Level 2												
	1	2	3	4	5	6	7	8	9	10	11	12	13	5	6	7	8	9	10	11	12	13				
Room Use	BASE	BASE	BASE	BASE										GRT	GRT	KIT	KIT	STUDY	MUD	FOY	PWD	DIN				
Btu/Outlet	3983	3983	3983	3983										1751	1751	1836	1836	2053	1203	3641	1129	2020				
Heating Airflow Rate CFM	92	92	92	92										40	40	42	42	47	28	84	26	47				
Cooling Airflow Rate CFM	13	13	13	13										67	67	66	66	48	6	52	17	92				
Duct Design Pressure	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		
Actual Duct Length	51	49	28	38										58	48	49	47	8	15	37	29	34				
Equivalent Length	80	90	90	110	70	70	70	70	70	70	70	70	70	140	130	100	100	80	90	130	110	70	70	70	70	
Total Effective Length	131	139	118	148	70	70	70	70	70	70	70	70	70	198	178	149	147	88	105	127	159	144	70	70	70	70
Adjusted Pressure	0.10	0.09	0.11	0.09	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.07	0.07	0.09	0.09	0.15	0.12	0.10	0.08	0.09	0.19	0.19	0.19	0.19
Duct Size Round	6	6	6	6										6	6	5	5	4	4	6	4	6				
Outlet Size	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	3x10	3x10	3x10	3x10	4x10	3x10	4x10	4x10	4x10	4x10	4x10
Trunk	D	D	C	B										E	E	E	D	A	A	B	C	C				

S/A Outlet No.	Level 3											Level 4														
	14	15	16	17	18	19	20	21	22	23	14	15	16	17	18	19	20	21	22	23						
Room Use	MAST	ENS	BED 2	BATH	BED 3	BED 4	BED 4	ENS 4	LAUN	WIC																
Btu/Outlet	2838	2072	1358	595	1715	2629	2629	2037	973	682																
Heating Airflow Rate CFM	66	48	31	14	40	61	61	47	22	16																
Cooling Airflow Rate CFM	79	41	30	8	33	65	65	60	42	6																
Duct Design Pressure	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Actual Duct Length	70	63	59	51	37	56	52	63	38	60																
Equivalent Length	130	140	100	130	110	160	150	125	140	120	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Total Effective Length	200	203	159	181	147	216	202	188	178	180	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Adjusted Pressure	0.07	0.06	0.08	0.07	0.09	0.06	0.06	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
Duct Size Round	6	5	4	3	4	6	6	5	5	3																
Outlet Size	4x10	3x10	3x10	3x10	3x10	4x10	4x10	3x10	3x10	3x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10
Trunk	E	D	C	C	A	B	B	B	C	C																

Return Branch And Grill Sizing	Grill Pressure Loss										
R/A Inlet No.	1R	2R	3R	4R	5R	6R	7R	8R	9R	10R	11R
Inlet Air Volume CFM	185	415	155	155	155	105					
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
Actual Duct Length	17	28	51	46	39	53					
Equivalent Length	110	175	160	245	165	135	50	50	50	50	50
Total Effective Length	127	203	211	291	204	188	50	50	50	50	50
Adjusted Pressure	0.09	0.06	0.06	0.04	0.06	0.06	0.24	0.24	0.24	0.24	0.24
Duct Size Round	8.0	11.5	8.0	8.5	8.0	6.0					
Inlet Size	FLC	8	8	8	8	8					
" "	x	x	x	x	x	x	x	x	x	x	x
Inlet Size	9x6	30	14	14	14	14					
Trunk	Y	Z	Y	Z	Z	Z					

Return Trunk Duct Sizing	Trunk	CFM	Press.	Round	Rect. Size
Drop		1170	0.04	18.0	24x12
Z		1170	0.04	18.0	30x10 24x12
Y		340	0.06	10.5	12x8 10x10
X					
W					
V					
U					
G					
H					
I					
J					
R					
Q					

Supply Trunk Duct Sizing	Trunk	CFM	Press.	Round	Rect. Size
A		1170	0.06	16.5	32x8 24x10
B		344	0.06	10.5	12x8 10x10
C		711	0.06	14.0	22x8 18x10
D		463	0.06	11.5	14x8 12x10
E		189	0.07	8.5	8x8
F					
G					
H					
I					
J					
K					

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2012 OBC

Builder: Bayview Wellington Date: March 12, 2018  
 Project: Green Valley East Model: Barossa 6 S38-6

System 1

Weather Data Bradford 44 -9.4 86 22 48.2  
 Heat Loss ^T 81.4 deg. F Ht gain ^T 11 deg. F GTA: 2891

Project # PJ-00204  
 Layout # JB-04483

Level 1

	BASE																	
Run ft. exposed wall A	164 A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Run ft. exposed wall B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Ceiling height	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG	3.7 AG
Floor area	1178 Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
Exposed Ceilings A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Exposed Ceilings B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Exposed Floors	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr
Gross Exp Wall A	600																	
Gross Exp Wall B																		

Components	R-Values	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain
North Shaded	3.55	22.93	10.91	3	69	33													
East/West	3.55	22.93	27.35	22	504	602													
South	3.55	22.93	20.89	3	69	63													
WOB Windows	3.15	25.84	28.32																
Skylight	2.03	40.10	88.23																
Doors	4.00	20.35	2.75	21	427	58													
Net exposed walls A	21.12	3.85	0.52	551		287													
Net exposed walls B	14.49	5.62	0.76																
Exposed Ceilings A	59.22	1.37	0.64																
Exposed Ceilings B	22.86	3.56	1.66																
Exposed Floors	29.80	2.73	0.17																
Foundation Conductive Heatloss	On Grade ( ) or Above (x)			6699															
Total Conductive	Heat Loss			7769															
	Heat Gain					1042													
Air Leakage	Heat Loss/Gain			1.0172	0.0408														
Ventilation	Case 1			0.07	0.07														
	Case 2			14.07	11.88														
	Case 3			x	0.03	0.07	262	76											
Heat Gain People						239													
Appliances Loads	1 =.25 percent					4821													
Duct and Pipe loss						10%													
Level 1 HL Total	15,932	Total HL for per room			15932														
Level 1 HG Total	1,509	Total HG per room x 1.3				1509													

Level 2

	GRT	KIT	STUDY	MUD	FOY	PWD	DIN											
Run ft. exposed wall A	33 A	36 A	21 A	9 A	33 A	12 A	19 A	A	A	A	A	A	A	A	A	A	A	A
Run ft. exposed wall B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Ceiling height	10.0	10.0	10.0	12.0	11.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Floor area	215 Area	297 Area	167 Area	27 Area	124 Area	70 Area	275 Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
Exposed Ceilings A	5 A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Exposed Ceilings B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Exposed Floors	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr	Flr
Gross Exp Wall A	330	360	210	108	363	120	190											
Gross Exp Wall B																		

Components	R-Values	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain			
North Shaded	3.55	22.93	10.91																			
East/West	3.55	22.93	27.35	48	1101	1313																
South	3.55	22.93	20.89																			
Existing Windows	1.99	40.90	22.15																			
Skylight	2.03	40.10	88.23																			
Doors	4.00	20.35	2.75																			
Net exposed walls A	17.03	4.78	0.65	282	1348	182	313	1496	202	186	889	120	87	416	56	315	1506	203	108			
Net exposed walls B	8.50	9.58	1.29																			
Exposed Ceilings A	59.22	1.37	0.64	5	7	3																
Exposed Ceilings B	22.86	3.56	1.66																			
Exposed Floors	29.80	2.73	0.17																			
Foundation Conductive Heatloss	On Grade ( ) or Above (x)																					
Total Conductive	Heat Loss			2455				2574		1439			843		2552		791		1416			
	Heat Gain					1498				382				114		1000		320		689		
Air Leakage	Heat Loss/Gain			0.3927	0.0408			964	61	1011	61	565	16	331	5	1002	41	311	13	556	28	
Ventilation	Case 1			0.03	0.07																	
	Case 2			14.07	11.88																	
	Case 3			x	0.03	0.07	83	109	87	108	49	28	28	8	86	73	27	23	48	50		
Heat Gain People						239																
Appliances Loads	1 =.25 percent					4821																
Duct and Pipe loss						10%																
Level 2 HL Total	17,220	Total HL for per room			3503			3671		2053		1337		1203		3641		1129		2020		2565
Level 2 HG Total	13,435	Total HG per room x 1.3				3736		3721							165		1447					

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Total Heat Loss	50,680	btu/h
Total Heat Gain	26,976	btu/h

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

Dave DaCosta

SB-12 Package

Package A1

Builder: Bayview Wellington Date: March 12, 2018  
 Project: Green Valley East Model: Barossa 6 S38-6

Weather Data Bradford 44 -9.4 86 22 48.2  
 Heat Loss ^T 81.4 deg. F Ht gain ^T 11 deg. F GTA: 2891

Project # PJ-00204  
 Layout # JB-04483

2012 OBC

System 1

Level 3

	MAST	ENS	BED 2	BATH	BED 3	BED 4	ENS 4	LAUN	WIC		
Run ft. exposed wall A	32 A	23 A	12 A	6 A	12 A	34 A	21 A	12 A	11 A	A	A
Run ft. exposed wall B	B	B	B	B	B	B	B	B	B	B	B
Ceiling height	9.0	8.0	8.0	8.0	8.0	10.0	8.0	9.0	8.0	8.0	8.0
Floor area	253 Area	123 Area	232 Area	68 Area	218 Area	289 Area	87 Area	89 Area	84 Area	84 Area	8.0 Area
Exposed Ceilings A	253 A	123 A	232 A	68 A	218 A	289 A	87 A	89 A	84 A	84 A	A
Exposed Ceilings B	B	B	B	B	B	B	B	B	B	B	B
Exposed Floors	Flr	Flr	Flr	Flr	66 Flr	194 Flr	3 Flr	Flr	Flr	Flr	Flr
Gross Exp Wall A	288	184	96	48	96	340	168	108	88		
Gross Exp Wall B											

Components	R-Values	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain											
North Shaded	3.55	22.93	10.91																													
East/West	3.55	22.93	27.35	28	642	766																										
South	3.55	22.93	20.89																													
Existing Windows	1.99	40.90	22.15																													
Skylight	2.03	40.10	88.23																													
Doors	4.00	20.35	2.75																													
Net exposed walls A	17.03	4.78	0.65	260	1243	168	152	727	98	80	382	52	40	191	26	80	382	52	273	1305	176	131	626	85	101	483	65	88	421	57		
Net exposed walls B	8.50	9.58	1.29																													
Exposed Ceilings A	59.22	1.37	0.64	253	348	162	123	169	79	232	319	149	68	93	44	218	300	140	289	397	185	87	120	56	89	122	57	84	115	54		
Exposed Ceilings B	22.86	3.56	1.66																													
Exposed Floors	29.80	2.73	0.17																													
Foundation Conductive Heatloss																																
Total Conductive																																
Heat Loss				2233			1629		1068		468		1229		3768		1602		766		536		111									
Heat Gain					1096		789		375		157		377		2104		1153		269		603											
Air Leakage	Heat Loss/Gain	0.2377	0.0408	531	45		387	32	254	15	111	6	292	15	896	86	381	47	182	11	127	5										
Ventilation	Case 1		0.02																													
	Case 2		14.07																													
	Case 3	x	0.03																													
Heat Gain People			239	2	75	80	55	58	1	36	27	16	11	1	41	27	127	153	54	84	26	20	18	8								
Appliances Loads	1 =.25 percent		4821																													
Duct and Pipe loss			10%																													
Level 3 HL Total	17,528		Total HL for per room	2838			2072	1143	1358		595		1715		5257		2037		973		682		160									
Level 3 HG Total	12,033		Total HG per room x 1.3		2208					854		227			937		3662		1669		1172											

Level 4

	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Run ft. exposed wall A	A		A		A		A		A		A		A		A		A		A		A	
Run ft. exposed wall B	B		B		B		B		B		B		B		B		B		B		B	
Ceiling height																						
Floor area	Area		Area		Area		Area		Area		Area		Area		Area		Area		Area		Area	
Exposed Ceilings A	A		A		A		A		A		A		A		A		A		A		A	
Exposed Ceilings B	B		B		B		B		B		B		B		B		B		B		B	
Exposed Floors	Flr		Flr		Flr		Flr		Flr		Flr		Flr		Flr		Flr		Flr		Flr	
Gross Exp Wall A																						
Gross Exp Wall B																						

Components	R-Values	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	Loss	Gain	
North Shaded	3.55	22.93	10.91																			
East/West	3.55	22.93	27.35																			
South	3.55	22.93	20.89																			
Existing Windows	1.99	40.90	22.15																			
Skylight	2.03	40.10	88.23																			
Doors	4.00	20.35	2.75																			
Net exposed walls A	17.03	4.78	0.65																			
Net exposed walls B	8.50	9.58	1.29																			
Exposed Ceilings A	59.22	1.37	0.64																			
Exposed Ceilings B	22.86	3.56	1.66																			
Exposed Floors	29.80	2.73	0.17																			
Foundation Conductive Heatloss																						
Total Conductive																						
Heat Loss																						
Heat Gain																						
Air Leakage	Heat Loss/Gain	0.0000	0.0408																			
Ventilation	Case 1		0.00																			
	Case 2		14.07																			
	Case 3	x	0.03																			
Heat Gain People			239																			
Appliances Loads	1 =.25 percent		4821																			
Duct and Pipe loss			10%																			
Level 4 HL Total	0		Total HL for per room																			
Level 4 HG Total	0		Total HG per room x 1.3																			

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Total Heat Loss	50,680	btu/h
Total Heat Gain	26,976	btu/h

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

*Handwritten signature*

David DaCosta

SB-12 Package

Package A1

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 *David DaCosta* David DaCosta

**Package: Package A1**  
**Project: Bradford** **Model: S38-6**

## RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

For systems serving one dwelling unit & conforming to the Ontario Building Code, O.reg 332/12

Location of Installation	
Lot #	Plan #
Township	Bradford
Roll #	Permit #
Address	

Total Ventilation Capacity 9.32.3.3(1)			
Bsmt & Master Bdrm	2 @ 21.2 cfm	42.4 cfm	
Other Bedrooms	3 @ 10.6 cfm	31.8 cfm	
Bathrooms & Kitchen	5 @ 10.6 cfm	53 cfm	
Other rooms	5 @ 10.6 cfm	53 cfm	
	Total	<u>180.2</u>	

Builder	
Name	Bayview Wellington
Address	
City	
Tel	Fax

Principal Ventilation Capacity 9.32.3.4(1)			
Master bedroom	1 @ 31.8 cfm	31.8 cfm	
Other bedrooms	3 @ 15.9 cfm	47.7 cfm	
	Total	<u>79.5</u>	

Installing Contractor	
Name	
Address	
City	
Tel	Fax

Principal Exhaust Fan Capacity			
Make	Model	Location	
LifeBreath	RNC155	Base	
	132 cfm	Sones	or Equiv.

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

Heat Recovery Ventilator			
Make	LifeBreath		
Model	RNC155		
	132 cfm high	80 cfm low	
Sensible efficiency @ -25 deg C		<u>71%</u>	
Sensible efficiency @ 0 deg C		<u>75%</u>	

Note: Installer to balance HRV/ERV to within 10 percent of PVC

Heating System	
<input checked="" type="checkbox"/>	Forced air
<input type="checkbox"/>	Non forced air
<input type="checkbox"/>	Electric space heat (if over 10% of heat load)

Supplemental Ventilation Capacity	
Total ventilation capacity	180.2
Less principal exhaust capacity	<u>79.5</u>
REQUIRED supplemental vent. Capacity	<u>100.7</u> cfm

House Type 9.32.3.1(2)		
I	<input checked="" type="checkbox"/>	Type a) or b) appliances only, no solid fuel
II	<input type="checkbox"/>	Type I except with solid fuel (including fireplace)
III	<input type="checkbox"/>	Any type c) appliance
IV	<input type="checkbox"/>	Type I or II either electric space heat
Other	<input type="checkbox"/>	Type I, II or IV no forced air

Supplemental Fans 9.32.3.5.			
Location	cfm	Model	Sones
Ens	50	XB50	0.3
Bath	50	XB50	0.3
Ens 4	50	XB50	0.3
<i>all fans HVI listed</i> Make    Broan      or Equiv.			

System Design Option		
1	<input type="checkbox"/>	Exhaust only / forced air system
2	<input type="checkbox"/>	HRV WITH DUCTING / forced air system
3	<input checked="" type="checkbox"/>	HRV simplified connection to forced air system
4	<input type="checkbox"/>	HRV full ducting/not coupled to forced air system
	<input type="checkbox"/>	Part 6 design

Designer Certification			
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.			
Name	David DaCosta		
Signature	<i>David DaCosta</i>		
HRAI #	5190	BCIN #	32964
Date	March 12, 2018		

# SITE COPY



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

## Energy Efficiency Design Summary: Prescriptive Method (Building Code Part 9, Residential)

Page 7  
 Project # PJ-00204  
 Layout # JB-04483

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 Principal Authority

Application No:	Model/Certification Number
-----------------	----------------------------

### A. Project Information

Building number, street name <b>Barossa 6 S38-6</b>	Unit number	Lot/Con
Municipality <b>Bradford</b>	Postal code	Reg. Plan number / other description

### B. Prescriptive Compliance [indicate the building code compliance package being employed in the house design]

SB-12 Prescriptive (input design package):	<u>Package A1</u>	Table: <u>3.1.1.2.A</u>
--	-------------------	-------------------------

### C. Project Design Conditions

Climatic Zone (SB-1):	Heat. Equip. Efficiency	Space Heating Fuel Source
<input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) <input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input checked="" type="checkbox"/> ≥ 92% AFUE <input type="checkbox"/> ≥ 84% < 92% AFUE	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area	Other Building Characteristics	
Area of Walls = <u>343.47</u> m <sup>2</sup> or <u>3697.1</u> ft <sup>2</sup>  Area of W, S & G = <u>39.483</u> m <sup>2</sup> or <u>425.0</u> ft <sup>2</sup>	W,S & G % = <u>11%</u>  Utilize Window <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement <input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement <input checked="" type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit <input type="checkbox"/> Air Sourced Heat Pump (ASHP) <input type="checkbox"/> Ground Source Heat Pump (GSHP)

### D. Building Specifications [provide values and ratings of the energy efficiency components proposed]

Energy Efficiency Substitutions				
<input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5)) <input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2(7) / 3.1.1.3.(7))				
<input type="checkbox"/> Airtightness substitution(s) Airtightness test required (Refer to Design Guide Attached)	<input type="checkbox"/> Table 3.1.1.4.B Required:	Permitted Substitution:		
	<input type="checkbox"/> Table 3.1.1.4.C Required:	Permitted Substitution:		
		Permitted Substitution:		
Building Component	Minimum RSI/R-Values or Maximum U-Value <sup>1</sup>		Building Component	Efficiency Ratings
<b>Thermal Insulation</b>	Nominal	Effective	<b>Windows &amp; Doors</b> Provide U-Value <sup>(1)</sup> or ER rating	
Ceiling with Attic Space	60		Windows/Sliding Glass Doors	1.6
Ceiling without Attic Space	31		Skylights	2.8
Exposed Floor	31		<b>Mechanicals</b>	
Walls Above Grade	22		Heating Equip.(AFUE)	96%
Basement Walls	20.0ci		HRV Efficiency (SRE% at 0°C)	75%
Slab (all >600mm below grade)	x		DHW Heater (EF)	0.80
Slab (edge only ≤600mm below grade)	10		DWHR (CSA B55.1 (min. 42% efficiency))	#Showers 1
Slab (all ≤600mm below grade, or heated)	10		Combined Heating System	

(1) U value to be provided in either W/(m<sup>2</sup>·K) or Btu/(h·ft<sup>2</sup>·F) but not both.

### E. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets building code]

Name <b>David DaCosta</b>	BCIN <b>32964</b>	Signature 
------------------------------	----------------------	---------------

Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 2016.

# SITE COPY



Package: **Package A1** System: **System 1**  
Project: **Bradford** Model: **S38-6**

### Air Leakage Calculations

<b>Building Air Leakage Heat Loss</b>					<b>Building Air Leakage Heat Gain</b>				
<b>B</b>	<b>LRairh</b>	<b>Vb</b>	<b>HL^T</b>	<b>HLleak</b>	<b>B</b>	<b>LRairh</b>	<b>Vb</b>	<b>HG^T</b>	<b>HG Leak</b>
0.018	0.318	33896	81.4	15804	0.018	0.079	33896	11	529

Air Leakage Heat Loss/Gain Multiplier Table (Section 11)					Levels			
Level	Level Factor (LF)	Building Air	Level Conductive Heat Loss	Air Leakage Heat Loss Multiplier	1	2	3	4
Level 1	0.5	15804	7769	1.0172	(LF)	(LF)	(LF)	(LF)
Level 2	0.3		12072	0.3927	1.0	0.6	0.5	0.4
Level 3	0.2		13300	0.2377		0.4	0.3	0.3
Level 4	0		0	0.0000			0.2	0.2

<b>HG LEAK</b>		529	<b>Air Leakage Heat Gain</b>	
<b>BUILDING CONDUCTIVE HEAT GAIN</b>		12965	0.0408	

<b>Levels this Dwelling</b>			
<b>3</b>			

### Ventilation Calculations

Vent	Ventilation Heat Loss					Ventilation Heat Gain					Vent																																		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="5">Ventilation Heat Loss</th></tr> <tr><th>C</th><th>PVC</th><th>HL^T</th><th>(1-E) HRV</th><th>HLbvent</th></tr> <tr><td>1.08</td><td>79.5</td><td>81.4</td><td>0.16</td><td>1118</td></tr> </table>					Ventilation Heat Loss						C	PVC	HL^T	(1-E) HRV	HLbvent	1.08	79.5	81.4	0.16	1118	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="4">Ventilation Heat Gain</th></tr> <tr><th>C</th><th>PVC</th><th>HG^T</th><th>HGbvent</th></tr> <tr><td>1.1</td><td>79.5</td><td>11</td><td>944</td></tr> </table>					Ventilation Heat Gain				C	PVC	HG^T	HGbvent	1.1	79.5	11	944	Case 1						
Ventilation Heat Loss																																													
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Case 1 - Exhaust Only																																													
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Level 1	0.5	1118	7769	0.07																																									
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Building	12965																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="4">Case 2</th></tr> <tr><th>C</th><th>HL^T</th><th>(1-E) HRV</th><th>Multiplier</th></tr> <tr><td>1.08</td><td>81.4</td><td>0.16</td><td>14.07</td></tr> </table>					Case 2				C	HL^T	(1-E) HRV	Multiplier	1.08	81.4	0.16	14.07	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">Case 2</th></tr> <tr><th>C</th><th>HG^T</th><th>Multiplier</th></tr> <tr><td>1.08</td><td>11</td><td>11.88</td></tr> </table>					Case 2			C	HG^T	Multiplier	1.08	11	11.88	Case 3														
Case 2																																													
C	HL^T	(1-E) HRV	Multiplier																																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="3">Case 3</th></tr> <tr><th colspan="2">Total Ventilation Load</th><th>Multiplier</th></tr> <tr><td colspan="2" style="text-align: center;">1118</td><td style="text-align: center;">0.03</td></tr> </table>					Case 3			Total Ventilation Load		Multiplier	1118		0.03	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="4">Case 3</th></tr> <tr><th colspan="2">HGbvent</th><th>HG*1.3</th><th>Vent Heat Gain</th><th>Multiplier</th></tr> <tr><td colspan="2" style="text-align: center;">944</td><td style="text-align: center;">1</td><td style="text-align: center;">944</td><td style="text-align: center;">0.07</td></tr> </table>					Case 3				HGbvent		HG*1.3	Vent Heat Gain	Multiplier	944		1	944	0.07													
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HGbvent		HG*1.3	Vent Heat Gain	Multiplier																																									
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**Foundation Conductive Heatloss Level 1**

1963 Watts 6699 Btu/h

**Foundation Conductive Heatloss Level 2**

Watts Btu/h



# Envelope Air Leakage Calculator

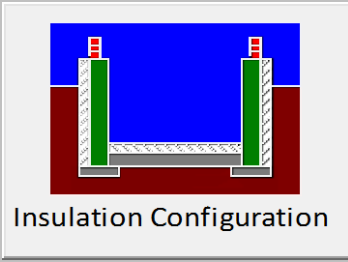
Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Bradford			
Weather Station Location:	Open flat terrain, grass			
Anemometer height (m):	10			
Local Shielding				
Building Site:	Suburban, forest			
Walls:	Heavy			
Flue:	Heavy			
Highest Ceiling Height (m):	6.60			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m <sup>3</sup> ):	959.93			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (ACH=3.57)			
Custom BDT Data:	ELA @ 10 Pa. 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
<b>Heating Air Leakage Rate (ACH/H): 0.318</b>				
<b>Cooling Air Leakage Rate (ACH/H): 0.079</b>				

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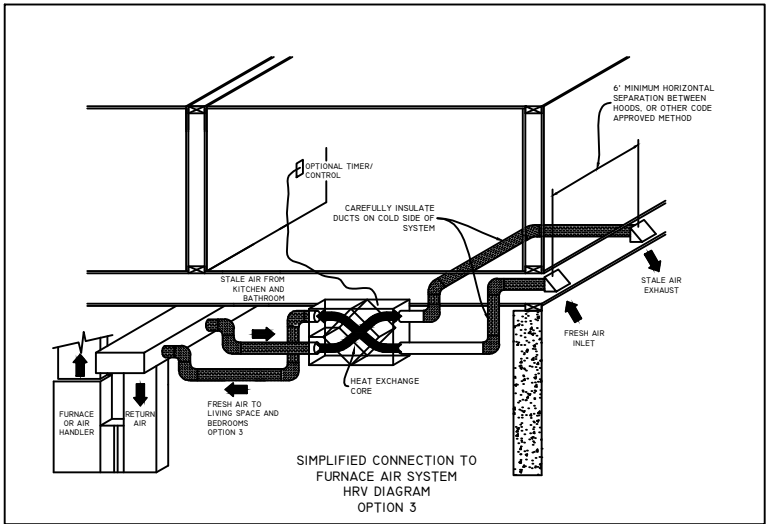
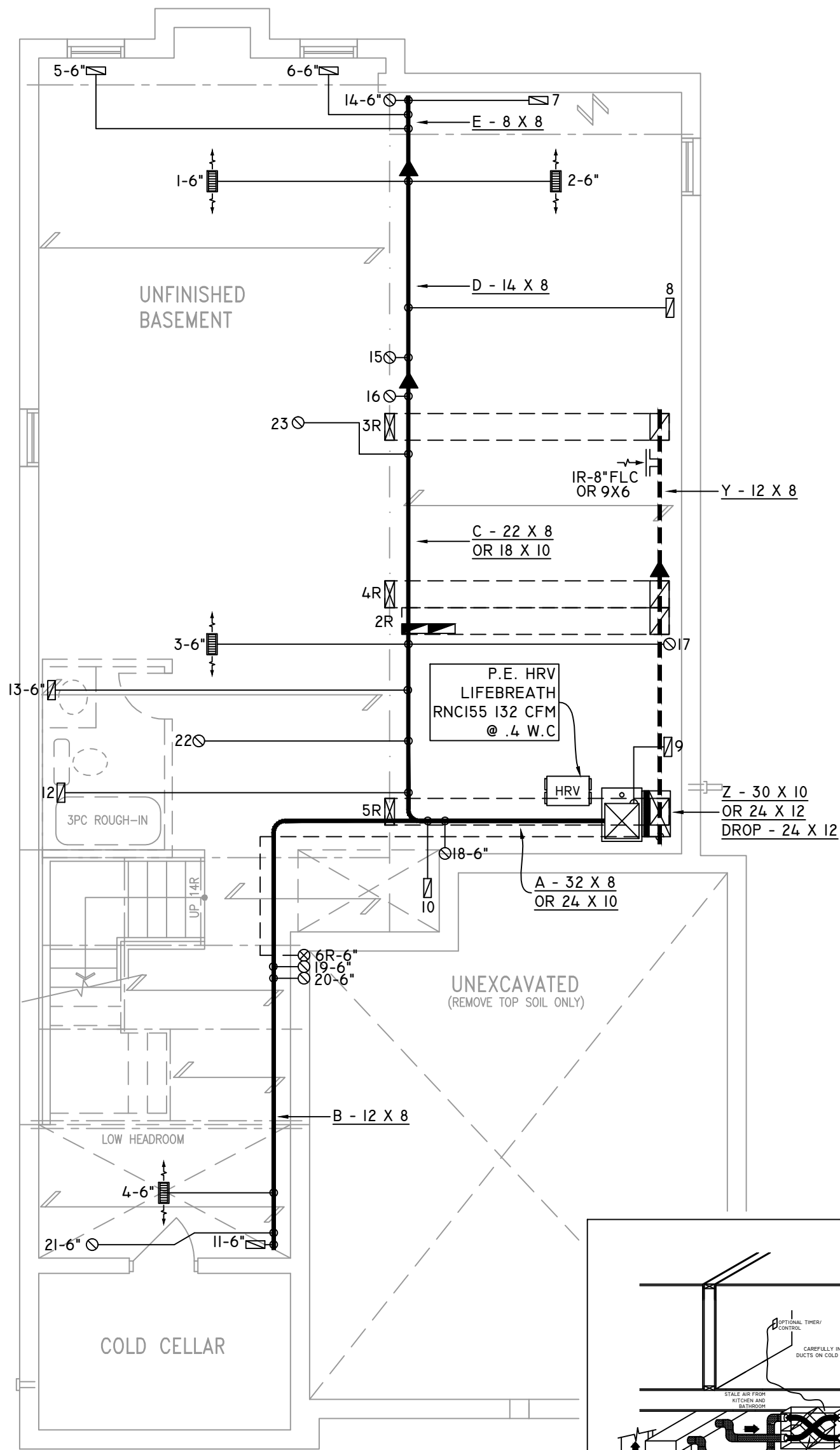
# Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	▼
Region:	Bradford	▼
Site Description		
Soil Conductivity:	High conductivity: moist soil	▼
Water Table:	Normal (7-10 m, 23-33 Ft)	▼
Foundation Dimensions		
Floor Length (m):	19.33	 <p>Insulation Configuration</p>
Floor Width (m):	5.66	
Exposed Perimeter (m):	49.99	
Wall Height (m):	2.74	
Depth Below Grade (m):	1.63	
Window Area (m <sup>2</sup> ):	2.60	
Door Area (m <sup>2</sup> ):	1.95	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):	1963	

**SITE COPY**

	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER						PRINCIPAL EXHAUST FAN SWITCH
									W/R & PRINCIPAL EXHAUST FAN



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

DAVID DA COSTA *David Da Costa* B.C.I.N. 32964  
SIGNATURE OF DESIGNER

BASEMENT PLAN 'A'

**SITE COPY**

OBC 2012

ZONE I COMPLIANCE PACKAGE "A1" REF. TABLE 3.1.1.2.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 R12 UNDERCUT ALL DOORS 1" 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.

**GTADESIGNS**

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

HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

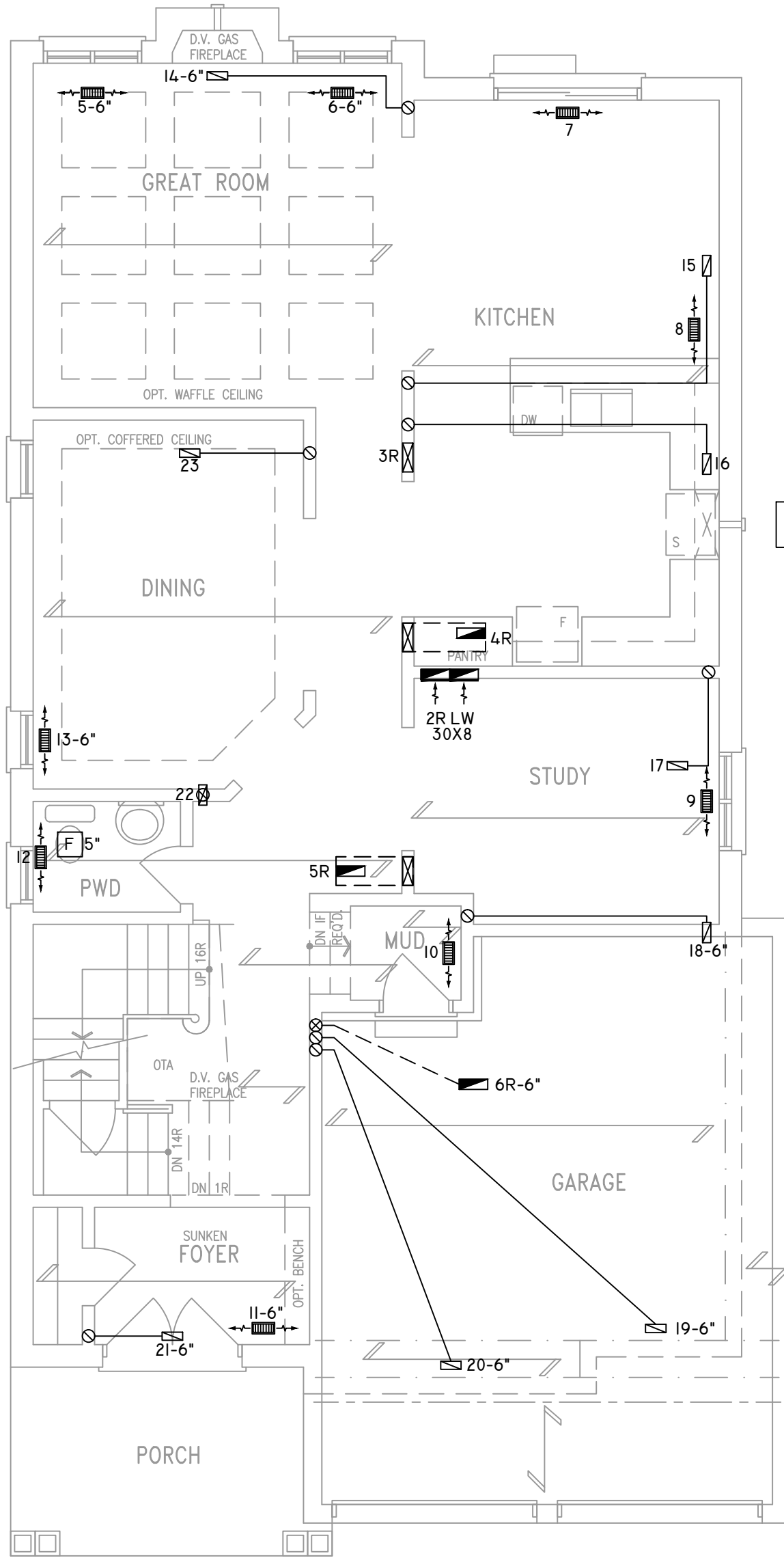
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

FLOOR PLAN:	BASEMENT
DRAWN BY:	AP
CHECKED:	DD
SQFT	2891
LAYOUT NO:	JB-04483
DRAWING NO.	MI

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"

	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER						PRINCIPAL EXHAUST FAN SWITCH
									W/R & PRINCIPAL EXHAUST FAN



KITCHEN EXHAUST  
100 CFM MIN. 6"

CIRCULATION PRINCIPAL  
FAN SWITCH  
TO BE CENTRALLY  
LOCATED

ALL DUCTWORK LOCATED IN  
CONDITIONED AREAS  
MUST BE SEALED TO CLASS  
C LEVEL AS PER OBC PART  
6-6.2.4.3.(12)

INSULATE ALL DUCTS IN  
UNCONDITIONED  
SPACES MIN. R12

FOR THE PURPOSE OF  
HEATLOSS/GAIN  
CALCULATIONS ALL  
ELEVATIONS HAVE BEEN  
CONSIDERED

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

DAVID DA COSTA *David Da Costa* B.C.I.N. 32964  
SIGNATURE OF DESIGNER

GROUND FLOOR PLAN 'A'

**SITE COPY**

OBC 2012

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.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 R12 UNDERCUT ALL DOORS 1" 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.

**GTADESIGNS**

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

HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

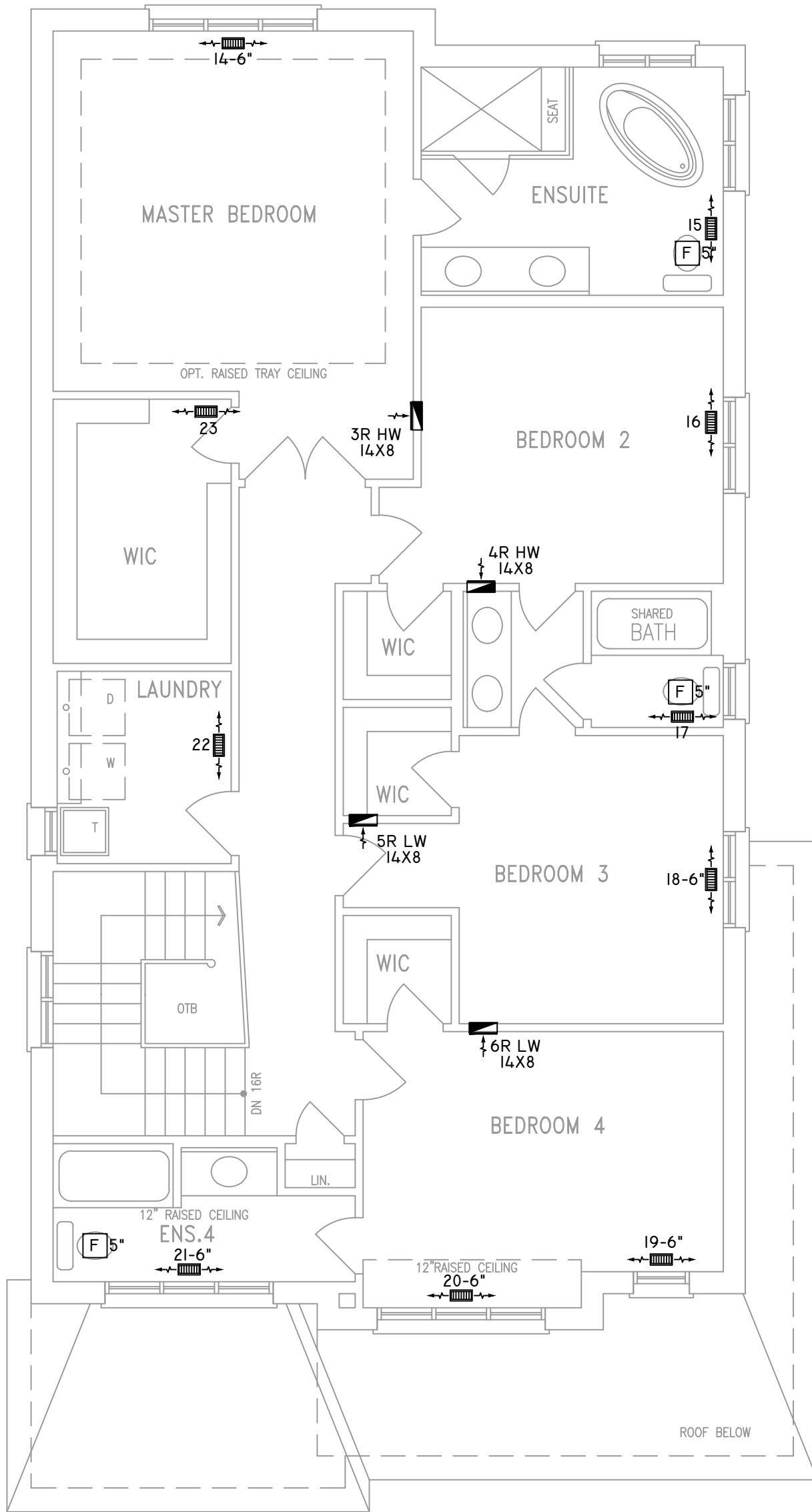
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

FLOOR PLAN:	
GROUND FLOOR	
DRAWN BY:	CHECKED:
AP	DD
LAYOUT NO.	DRAWING NO.
JB-04483	M2

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"

	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER				PRINCIPAL EXHAUST FAN SWITCH		W/R & PRINCIPAL EXHAUST FAN



ALL DUCTWORK LOCATED IN  
CONDITIONED AREAS  
MUST BE SEALED TO CLASS  
C LEVEL AS PER OBC PART  
6-6.2.4.3.(12)

INSULATE ALL DUCTS IN  
UNCONDITIONED  
SPACES MIN. R12

FOR THE PURPOSE OF  
HEATLOSS/GAIN  
CALCULATIONS ALL  
ELEVATIONS HAVE BEEN  
CONSIDERED

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DAVID DA COSTA B.C.I.N. 32964  
SIGNATURE OF DESIGNER

SECOND FLOOR PLAN 'A'

**SITE COPY**

OBC 2012

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.A

**NOTES**

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











HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

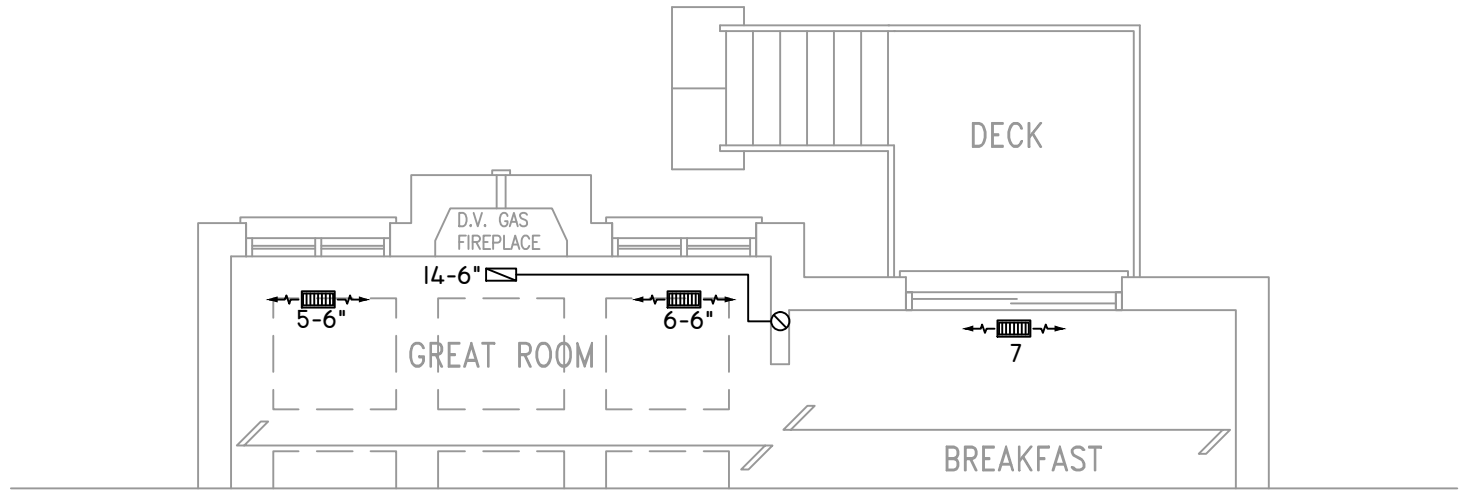
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

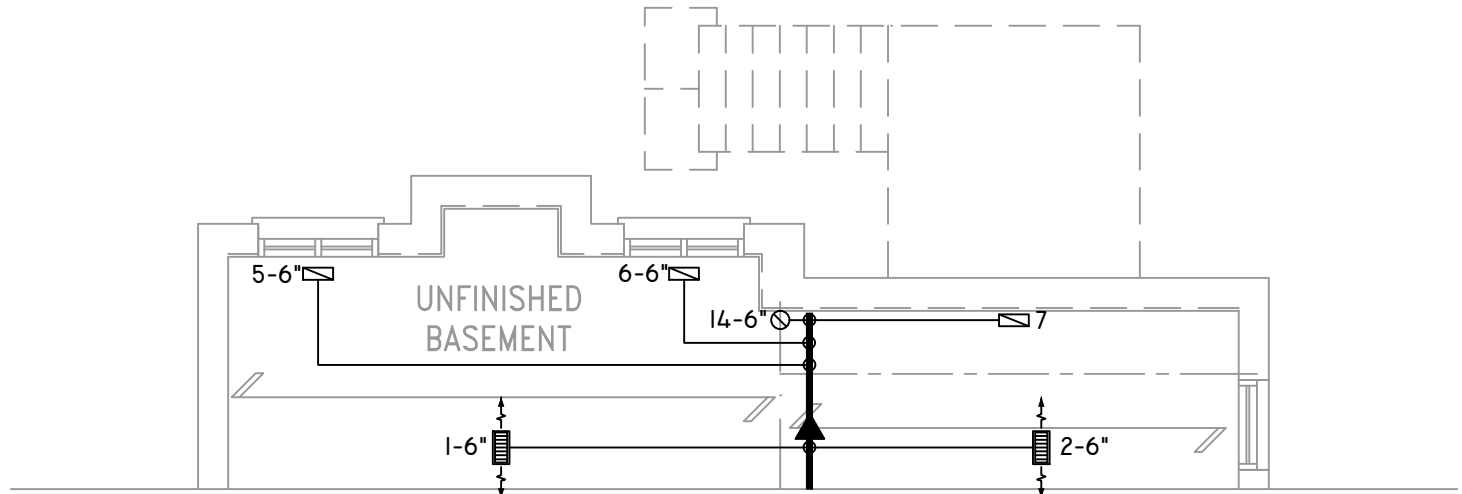
FLOOR PLAN: SECOND FLOOR	
DRAWN BY: AP	CHECKED: DD
LAYOUT NO: JB-04483	DRAWING NO: M3
sqft	2891

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"

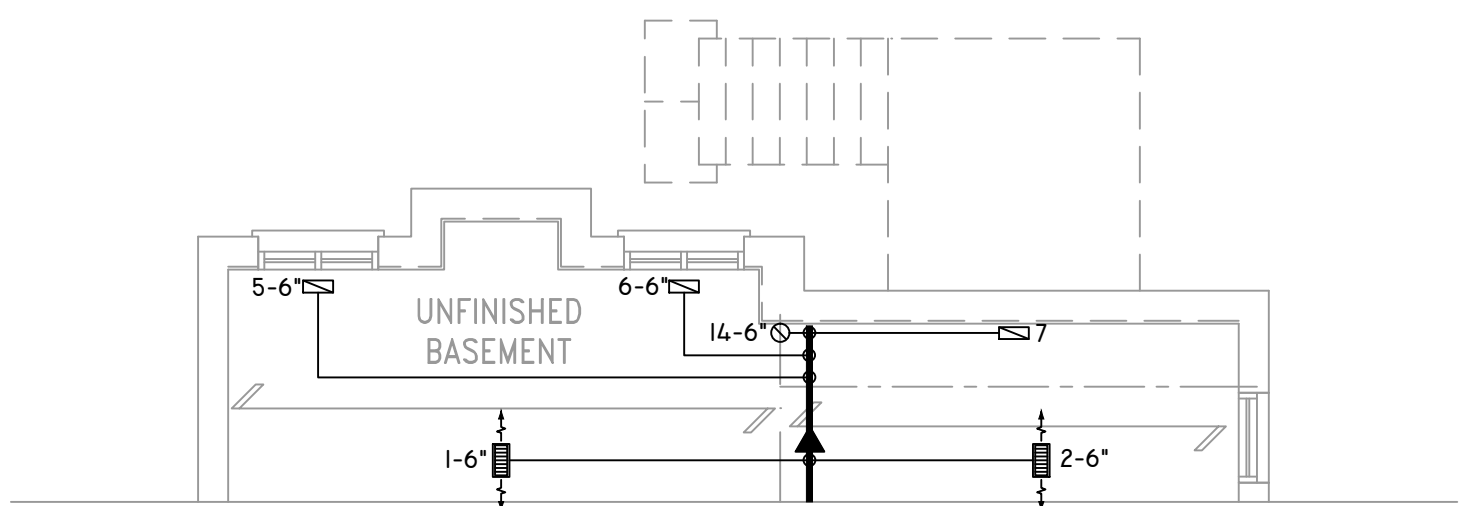
	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER						PRINCIPAL EXHAUST FAN SWITCH
									W/R & PRINCIPAL EXHAUST FAN



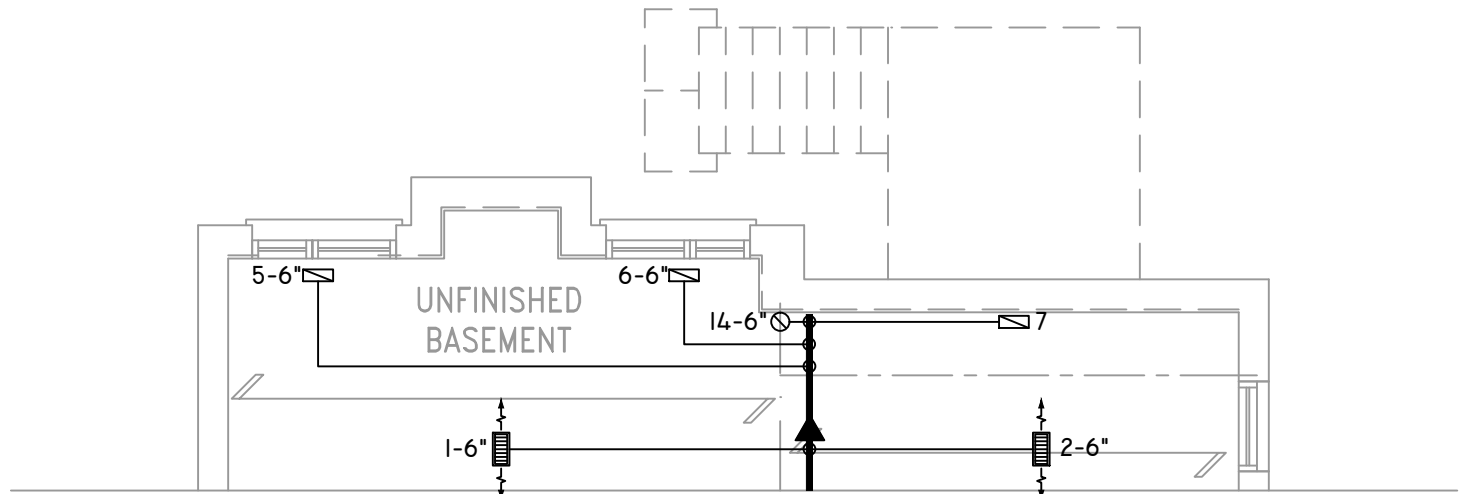
GROUND FLOOR PLAN 'A' - W.O.D. CONDITION  
ELEV. 'B' & 'C' SIMILAR



BASEMENT PLAN 'A' - W.O.D. CONDITION  
ELEV. 'B' & 'C' SIMILAR



BASEMENT PLAN 'C' - W.O.D. CONDITION  
ELEV. 'B' & 'C' SIMILAR



BASEMENT PLAN 'C' - W.O.D. UPG CONDITION  
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

DAVID DA COSTA  B.C.I.N. 32964  
SIGNATURE OF DESIGNER

**SITE COPY**

**OBC 2012**

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.A

**NOTES**  
INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE.  
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INSULATE DUCTS IN UNCONDITIONED SPACES R12 UNDERCUT ALL DOORS 1" MIN.  
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2985 DREW ROAD  
SUITE 202,  
MISSISSAUGA, ONT.  
L4T 0A4 TEL: 905-671-9800  
EMAIL: DAVE@GTADESIGNS.CA  
WEB: WWW.GTADESIGNS.CA

HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

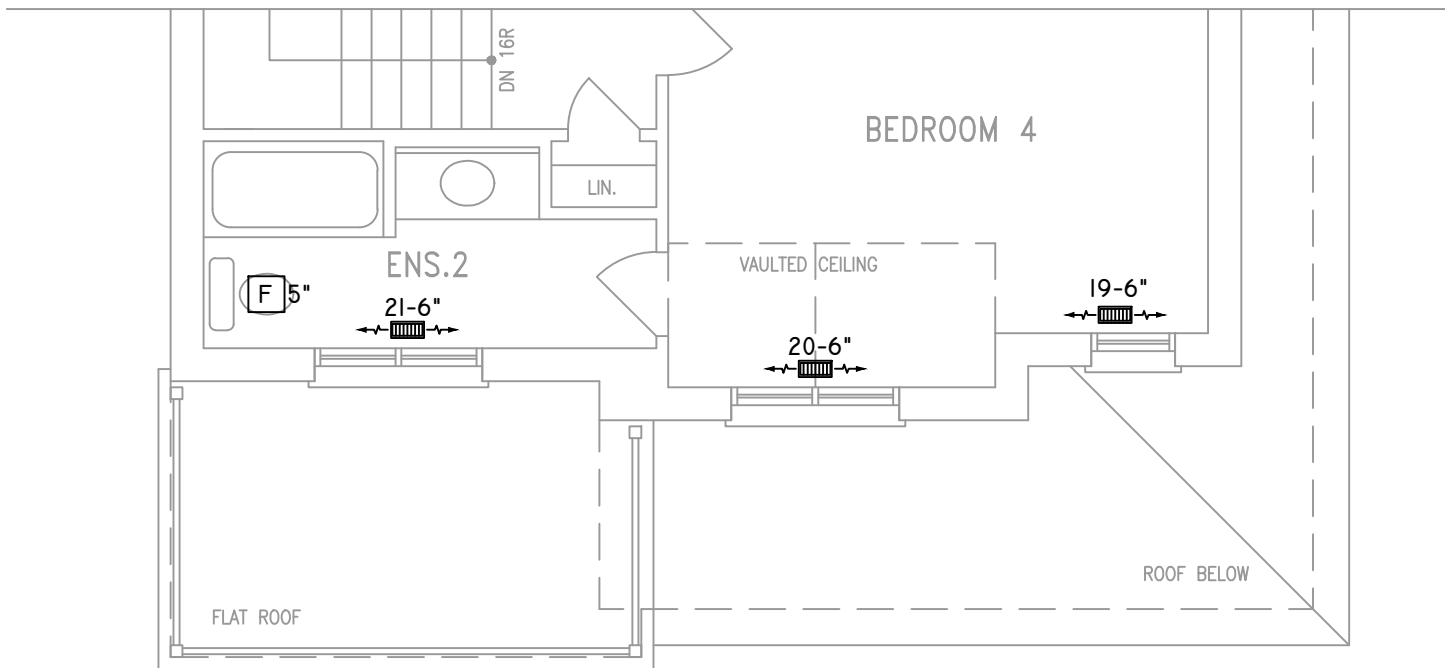
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

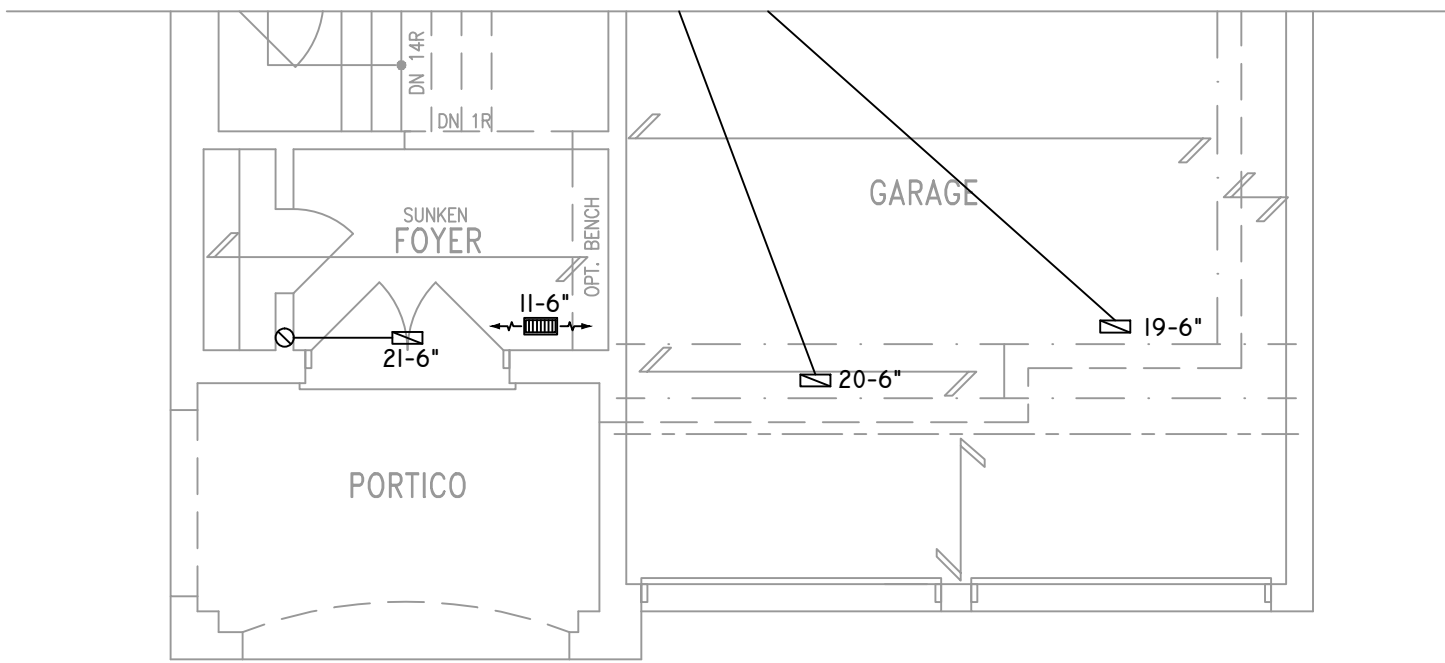
FLOOR PLAN:		PARTIAL PLAN(S)
DRAWN BY:	CHECKED:	SQFT
AP	DD	2891
LAYOUT NO:	DRAWING NO:	
JB-04483	M4	

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"

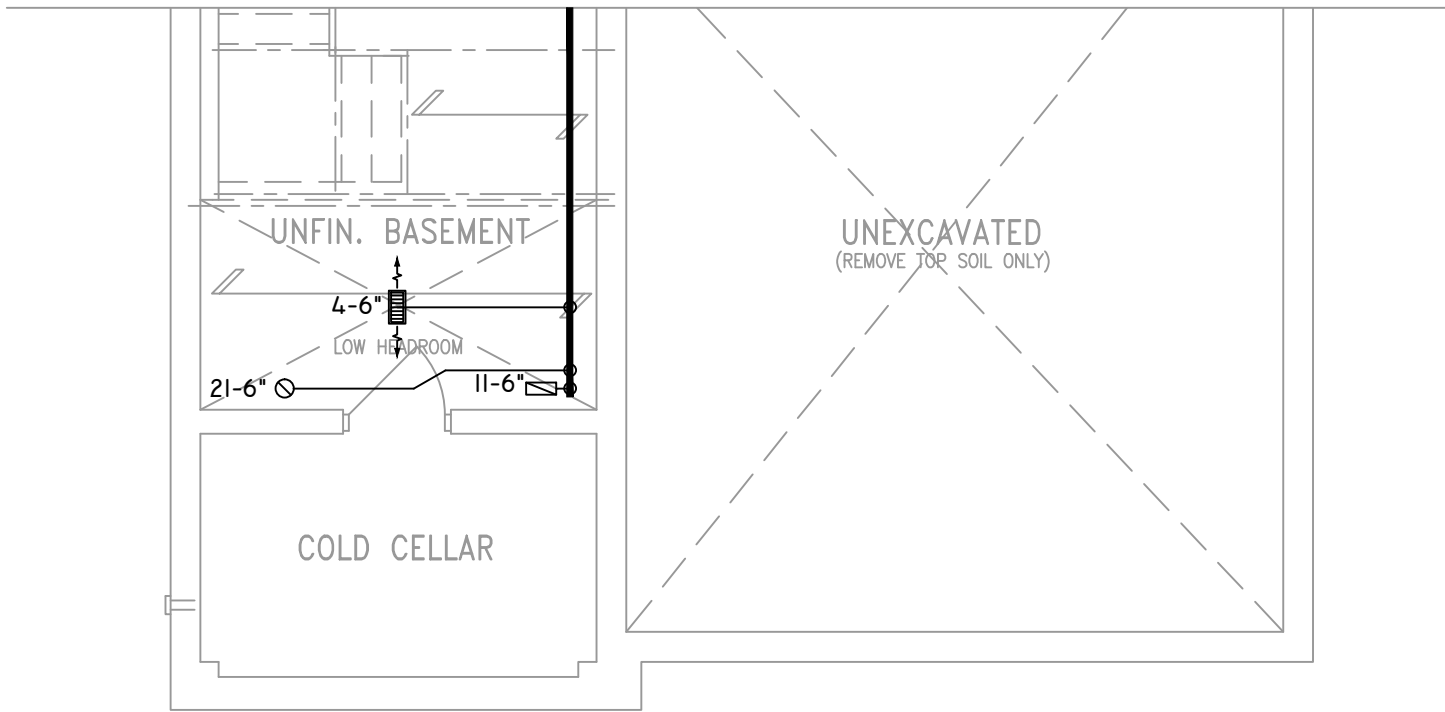
	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER						PRINCIPAL EXHAUST FAN SWITCH
									W/R & PRINCIPAL EXHAUST FAN



PARTIAL SECOND FLOOR PLAN 'B'



PARTIAL GROUND FLOOR PLAN 'B'



PARTIAL BASEMENT PLAN 'B'

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DAVID DA COSTA B.C.I.N. 32964  
SIGNATURE OF DESIGNER

**SITE COPY**

**OBC 2012**

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.A

**NOTES**  
INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE.  
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INSULATE DUCTS IN UNCONDITIONED SPACES R12 UNDERCUT ALL DOORS 1" MIN.  
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L4T 0A4 TEL: 905-671-9800  
EMAIL: DAVE@GTADESIGNS.CA  
WEB: WWW.GTADESIGNS.CA

HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

















# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

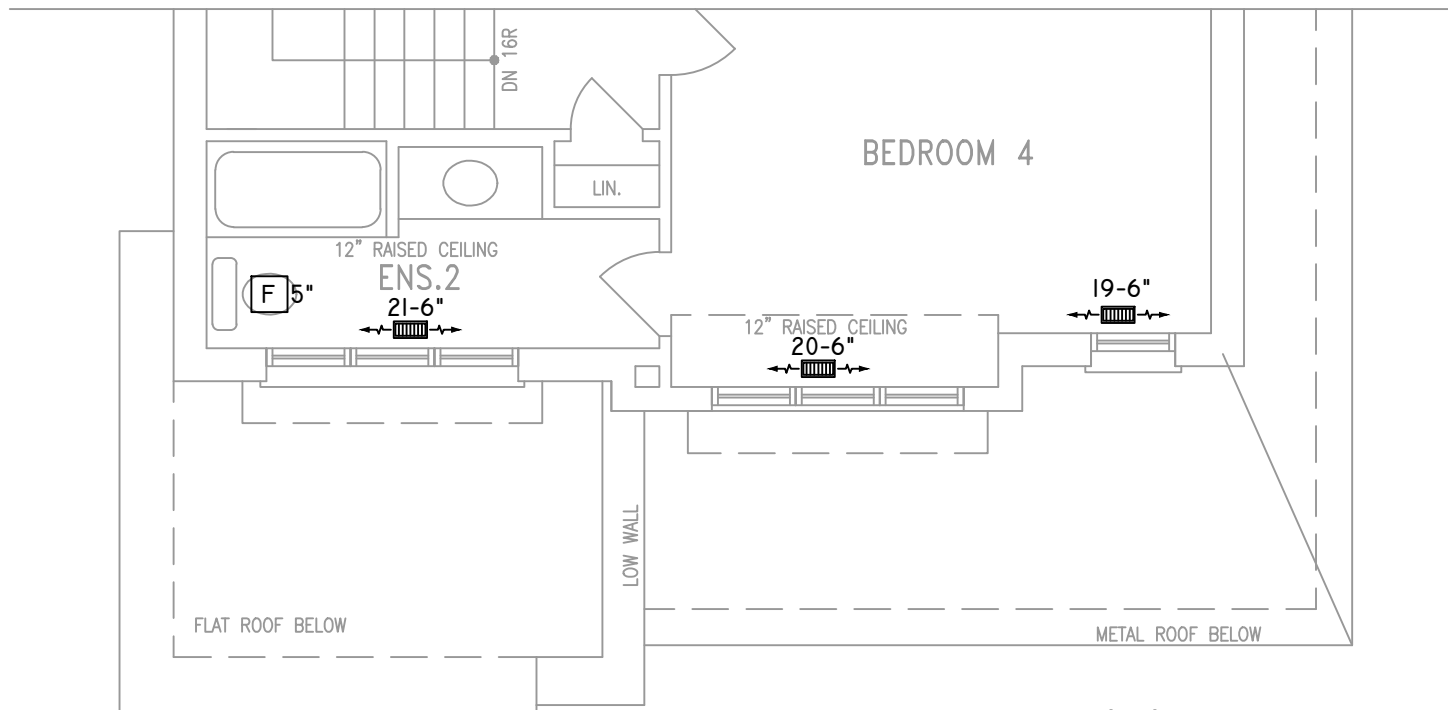
  

FLOOR PLAN:		PARTIAL PLAN(S)
DRAWN BY:	CHECKED:	SQFT
AP	DD	2891
LAYOUT NO.	DRAWING NO.	
JB-04483	M5	

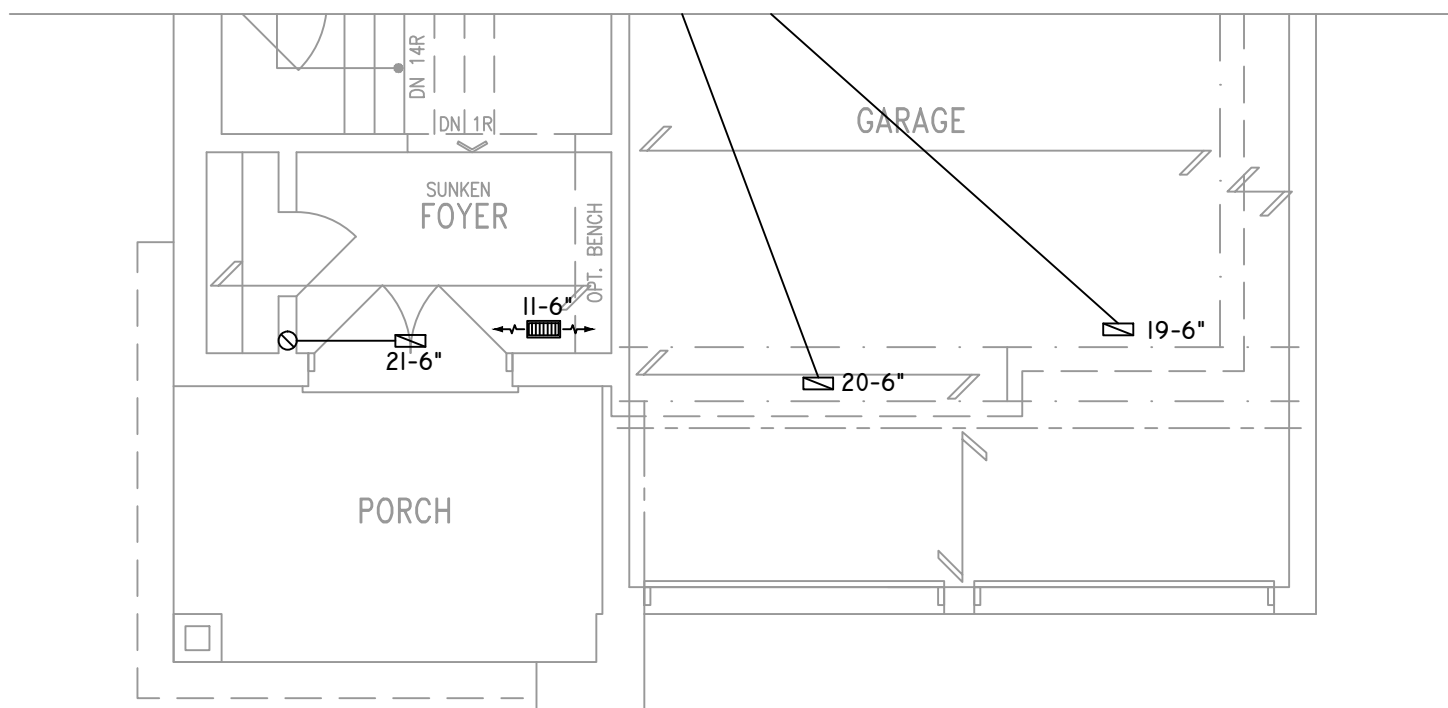
DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"



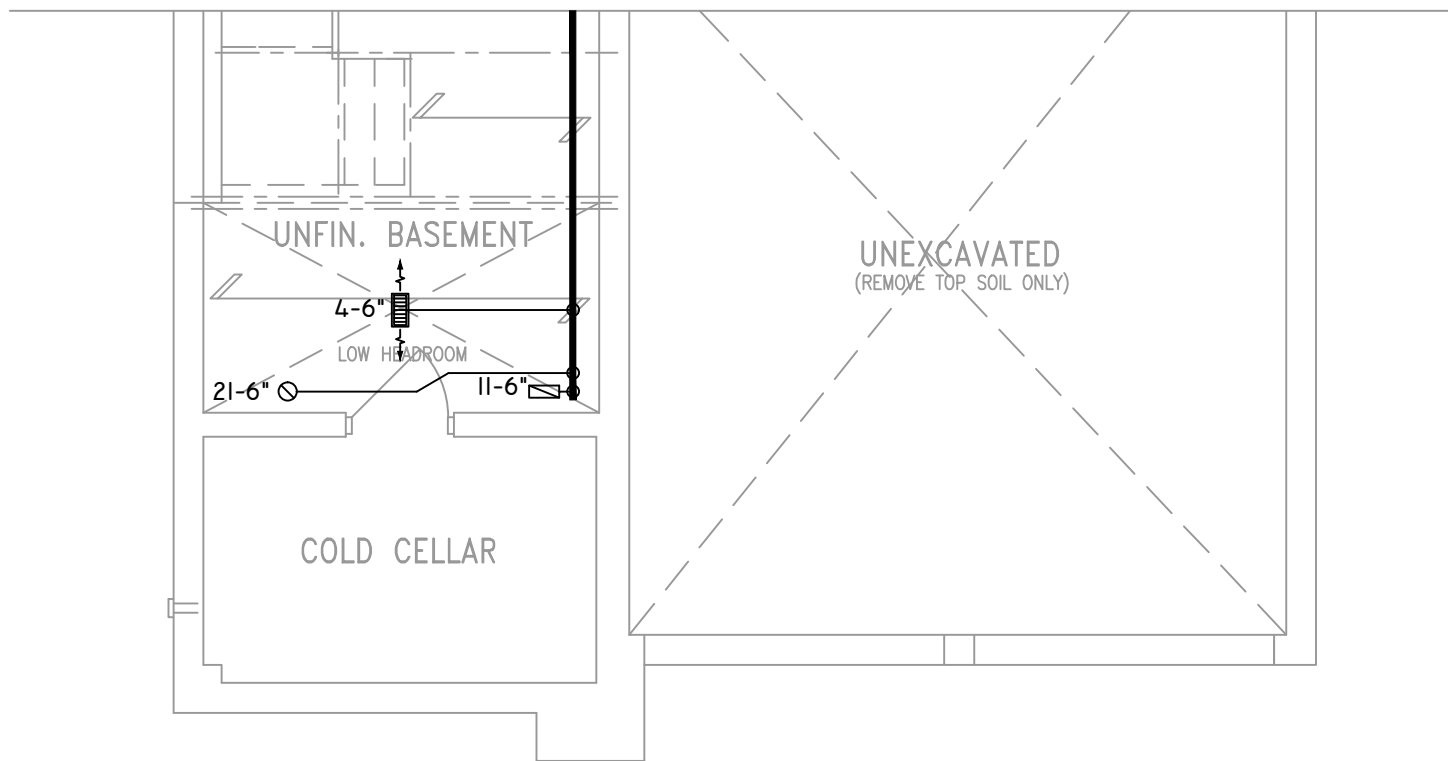
	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER				PRINCIPAL EXHAUST FAN SWITCH		W/R & PRINCIPAL EXHAUST FAN



PARTIAL SECOND FLOOR PLAN 'C'



PARTIAL GROUND FLOOR PLAN 'C'



PARTIAL BASEMENT FLOOR PLAN 'C'

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**QUALIFICATION INFORMATION**

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DAVID DA COSTA  B.C.I.N. 32964  
SIGNATURE OF DESIGNER

**SITE COPY**

**OBC 2012**

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.A

**NOTES**

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE.

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

HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

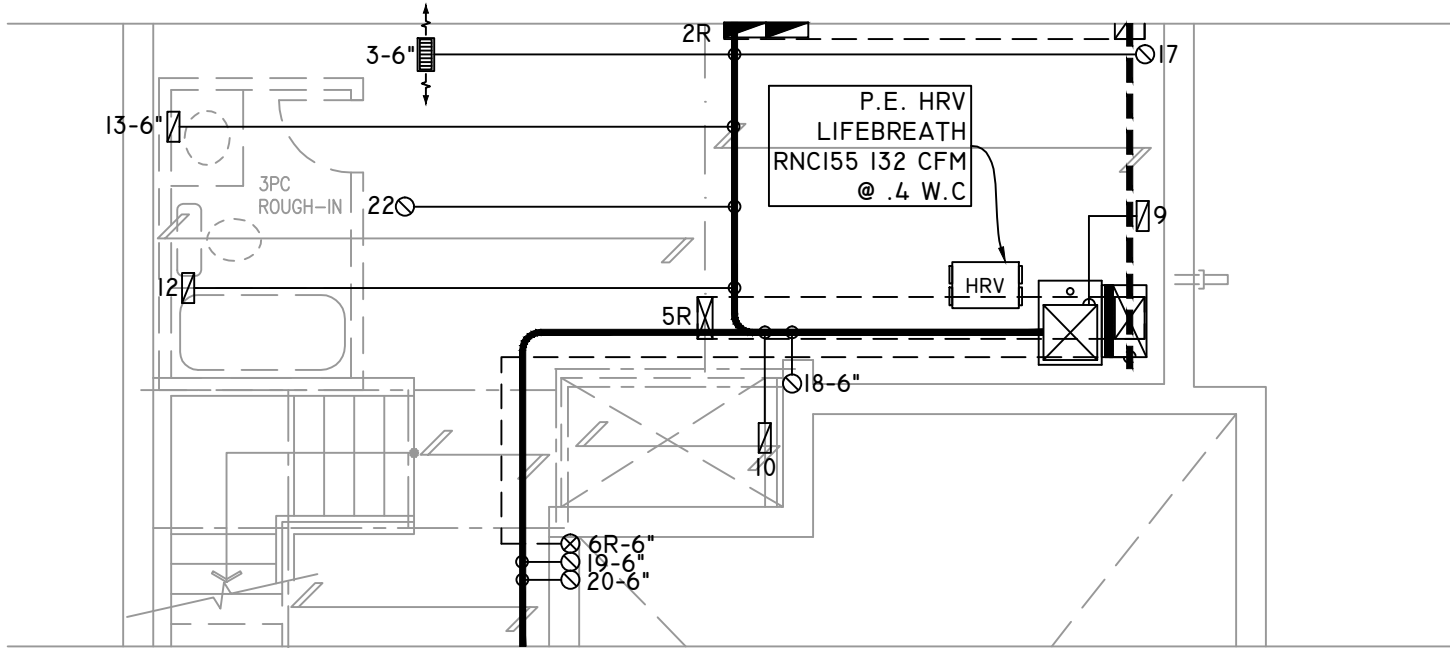
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

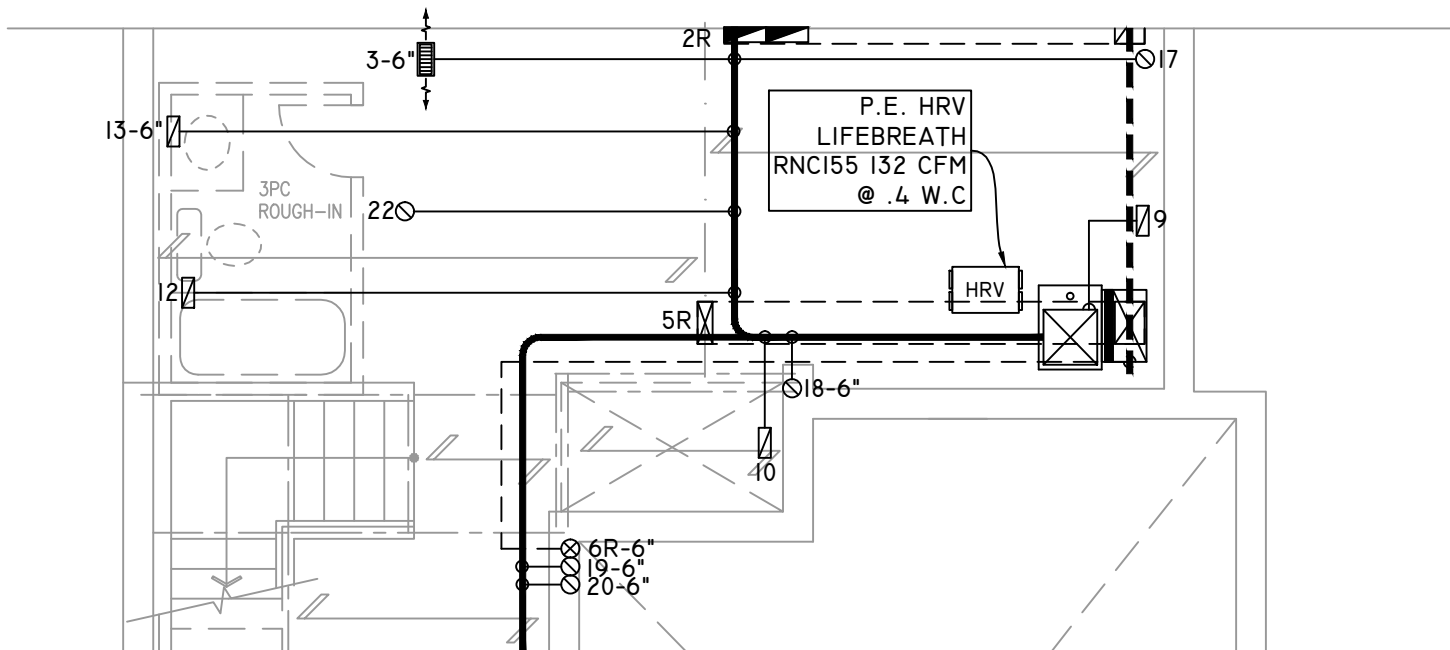
FLOOR PLAN:		PARTIAL PLAN(S)
DRAWN BY:	CHECKED:	SQFT
AP	DD	2891
LAYOUT NO.	DRAWING NO.	
JB-04483	M6	

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"

	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER				PRINCIPAL EXHAUST FAN SWITCH		W/R & PRINCIPAL EXHAUST FAN



PARTIAL PLAN FOR 2R OR MORE SUNKEN MUD ROOM COND.



PARTIAL PLAN FOR 1R SUNKEN MUD ROOM COND.

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DAVID DA COSTA *David Da Costa* B.C.I.N. 32964  
SIGNATURE OF DESIGNER

**SITE COPY**

OBC 2012

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.A

**NOTES**

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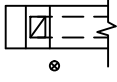














HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
A/C COOLING CAPACITY	2.5	TONS.
FAN SPEED	1170	CFM

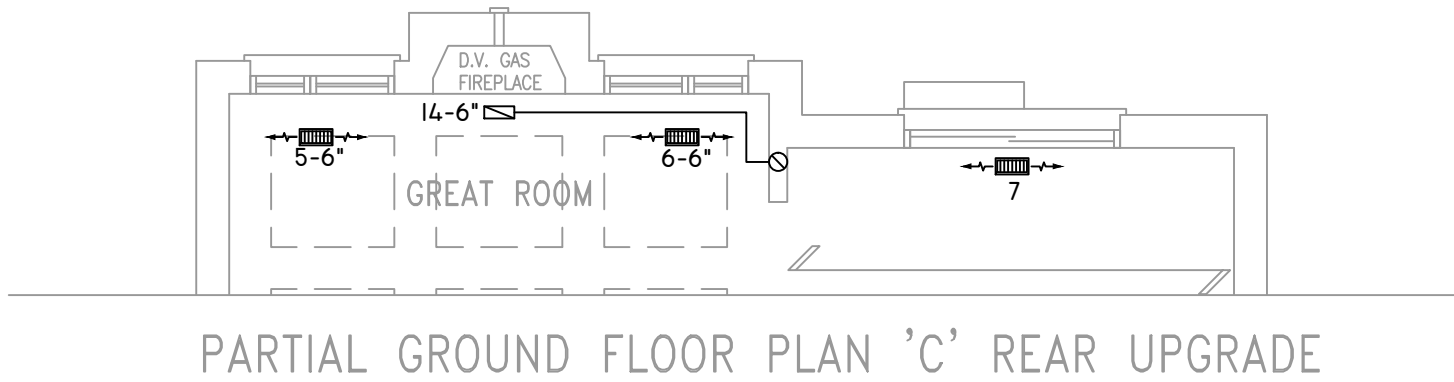
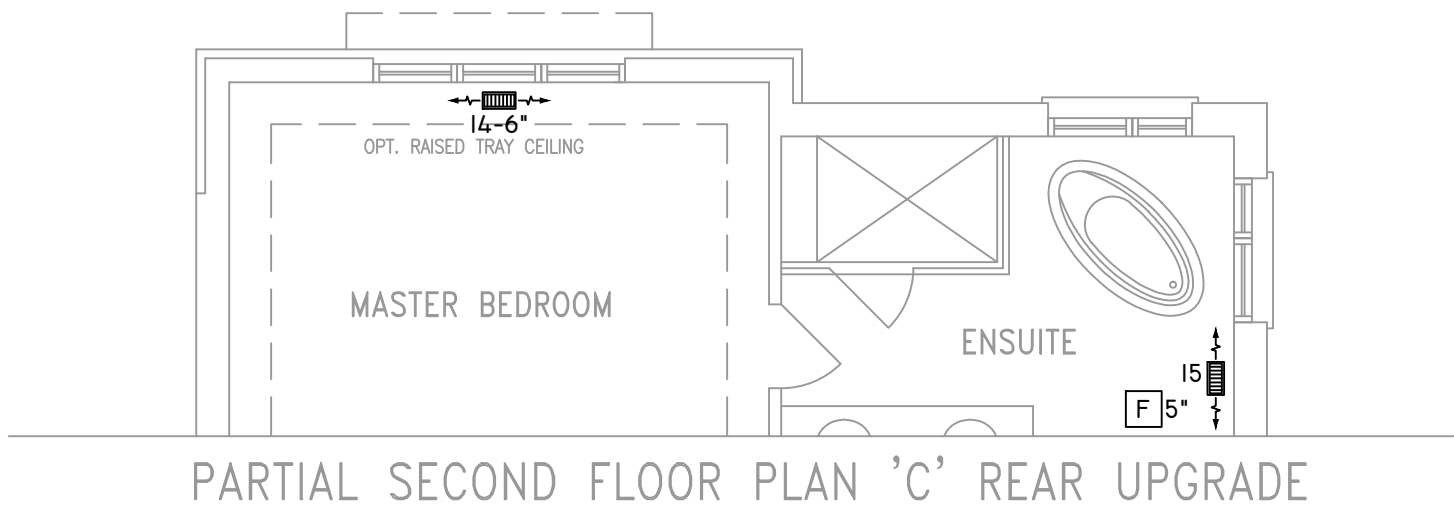
# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

FLOOR PLAN:	
PARTIAL PLAN(S)	
DRAWN BY: AP	CHECKED: DD
LAYOUT NO: JB-04483	DRAWING NO: M7
sqft	2891

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"

	FLEX DUCT		LOW/HIGH WALL/KICK SUPPLY DIFFUSER		DUCT CONNECTION TO JOIST LINING		RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)	S.A.	SUPPLY AIR
	RIGID ROUND DUCT		HRV EXHAUST GRILLE		RETURN AIR PIPE RISER		RETURN AIR RISER UP TO FLOOR ABOVE	R.A.	RETURN AIR
	SUPPLY DIFFUSER		SUPPLY AIR PIPE RISER		RETURN ROUND DUCT		RETURN AIR FROM BASEMENT SECOND FLOOR		THERMOSTAT
			VOLUME DAMPER						PRINCIPAL EXHAUST FAN SWITCH
									W/R & PRINCIPAL EXHAUST FAN



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

DAVID DA COSTA  B.C.I.N. 32964  
SIGNATURE OF DESIGNER

**SITE COPY**

**OBC 2012**

ZONE I COMPLIANCE  
PACKAGE "A1" REF. TABLE 3.1.1.2.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 R12 UNDERCUT ALL DOORS 1" 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

HEAT-LOSS	50,680	BTU/HR.
UNIT MAKE	AMANA	OR EQUAL.
UNIT MODEL	AMEC960603BNA	OR EQUAL.
UNIT HEATING INPUT	60,000	BTU/HR.
UNIT HEATING OUTPUT	57,600	BTU/HR.
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FAN SPEED	1170	CFM

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
1ST FLOOR	9	1	2
BASEMENT	4	1	

FLOOR PLAN:		PARTIAL PLAN(S)
DRAWN BY:	CHECKED:	SQFT
AP	DD	2891
LAYOUT NO.	DRAWING NO.	
JB-04483	M8	

DATE:	MARCH 12, 2018
CLIENT:	BAYVIEW WELLINGTON
MODEL:	S38-6 BAROSSA 6
PROJECT:	GREEN VALLEY EAST BRADFORD, ONT.
SCALE:	3/16" = 1'-0"