

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	a 17		Lot:	
S38-1	17		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		Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail	
Mississauga Telephone number	L4T 0A4 Fax number	Ontario	dave@gtades Cell number	<u>igns.ca</u>
(905) 671-9800		') 494-9643	(416) 268-6	820
C. Design activities undertaken by individual identified in S		•	, ,	
☐ House ☑ HVAC – H	ouse		☐ Building Structural	
☐ Small Buildings ☐ Building Se	ervices		☐ Plumbing – House	
☐ Large Buildings ☐ Detection,	Lighting and Pov	wer	☐ Plumbing – All Buildings	3
☐ Complex Buildings ☐ Fire Protect	tion		☐ On-site Sewage System	ns
Description of designer's work Mod	del Certification	1	Project #:	PJ-00204
			Layout #:	JB-04488
Heating and Cooling Load Calculations Main Air System Design Alternate	Х	Builder Project	Bayview Wellingto Green Valley Eas	
Residential mechanical ventilation Design Summary Area Sq ft:	2511		Barossa 17	
Residential System Design per CAN/CSA-F280-12		Model	S38-17	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer				
David DaCosta	declare that (c	choose one as appro	priate):	
(print name) I review and take responsibility for to 3.2.4 Division C of the Building Cocclasses/categories. Individual BCIN:	de. I am qualified	BUILDIN(on behalf ofिLtinn சேர் d, and the firのNeTrAge	O18-11-16	
Firm BCIN: I review and take responsibility for "other designer" under subsection				
Individual BCIN:	3296	64		
Basis for exemp			Division C 3.2.4.1. (4)	
Basis for exemp	uon nom registi	Lation.	77731011 0 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 registra	ation and qualification:		
I certify that:				
The information contained in this schedule is true to the best of n				
I have submitted this application with the knowledge and consent	of the firm.			
March 12, 2018		Mare the	-6-	
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.

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 licen
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 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

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Heat loss and gain calcul	ation summary sheet CSA-F280-M12 Standard Form No. 1
These documents issued for the use of	ayview Wellington Layout No.
and may not be used by any other persons without authorization. Document	s for permit and/or construction are signed in red. JB-04488
Building	Location
Address (Model): \$38-17	Site: Green Valley East
Model: Barossa 17	Lot:
City and Province: Bradford	Postal code:
Calculation	s based on
Dimensional information based on:	VA3 Design Jan/2018
Attachment: Detached	Front facing: East/West Assumed? Yes
No. of Levels: 3 Ventilated? Included	Air tightness: 1961-Present (ACH=3.57) Assumed? Yes
Weather location: Bradford	Wind exposure: Sheltered
HRV? LifeBreath RNC155	Internal shading: Light-translucent Occupants: 5
Sensible Eff. at -25C 71% Apparent Effect. at -0C 84%	Units: Imperial Area Sq ft: 2511
Sensible Eff. at -0C 75%	
Heating design conditions	Cooling design conditions
Outdoor temp -9.4 Indoor temp: 72 Mean soil tem; 48	Outdoor temp 86 Indoor temp: 75 Latitude: 44
Above grade walls	Below grade walls
Style A: As per OBC SB12 Package A1 R 22	Style A: As per OBC SB12 Package A1 R 20ci
Style B: Existing Walls (When Applicable) R 12	Style B:
Style C:	Style C:
Style D:	Style D:
Floors on soil	Ceilings
Style A: As per Selected OBC SB12 Package A1	Style A: As per Selected OBC SB12 Package A1 R 60
Style B:	Style B: As per Selected OBC SB12 Package A1 R 31
Exposed floors	Style C:
Style A: As per Selected OBC SB12 Package A1 R 31	Doors
Style B:	Style A: As per Selected OBC SB12 Package A1 R 4.00
Windows	Style B:
Style A: As per Selected OBC SB12 Package A1 R 3.55	Style C:
Style B: Existing Windows (When Applicable) R 1.99	Skylights
Style C:	Style A: As per Selected OBC SB12 Package A1 R 2.03
Style D:	Style B:
Attached documents: As per Shedule 1 Heat Loss/Ga	ain Caculations based on CSA-F280-12 Effective R-Values
Notes: Residential New C	Construction - Forced Air
Calculations	performed by
Name: David DaCosta	Postal code: L4T 0A4
Company: gtaDesigns Inc.	Telephone: (905) 671-9800
Address: 2985 Drew Road, Suite 202	Fax: (416) 268-6820
City: Mississauga	E-mail dave@gtadesigns.ca



Bayview Wellington

Builder:

Air System Design

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

SB-12 Package A1

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.

Page 3

PJ-00204 Barossa 17 of the Building Code. Project # System 1 Mane Alexa Project: **Green Valley East** Model: S38-17 Individual BCIN: David DaCosta Layout # JB-04488 DESIGN LOAD SPECIFICATIONS AIR DISTRIBUTION & PRESSURE FURNACE/AIR HANDLER DATA: BOILER/WATER HEATER DATA: A/C UNIT DATA: Level 1 Net Load 14,146 btu/h **Equipment External Static Pressure** 0.5 "w.c. Make Туре Amana 2.5 Ton Level 2 Net Load 16,313 btu/h Additional Equipment Pressure Drop 0.225 "w.c. Model AMEC960603BNA Model Cond.---2.5 Level 3 Net Load 15,646 btu/h **Available Design Pressure** 0.275 "w.c. Input Btu/h 60000 Input Btu/h Coil --2.5 Level 4 Net Load Return Branch Longest Effective Length 300 ft Output Btu/h 57600 Output Btu/h 0 btu/h Min.Output Btu/h Total Heat Loss 46,105 btu/h 0.138 "w.c. E.s.p. 0.50 " W.C. AWH R/A Plenum Pressure Blower DATA: **Total Heat Gain** 24,568 btu/h S/A Plenum Pressure 0.14 "w.c. Water Temp deg. F. W2 Combo System HL + 10% 50,716 Btuh. **Heating Air Flow Proportioning Factor** 0.0254 cfm/btuh AFUE Blower Speed Selected: ECM Blower Type (Brushless DC OBC 12.3.1.5.(2)) **Building Volume Vb** 28974 ft³ **Cooling Air Flow Proportioning Facter** 0.0392 cfm/btuh Aux. Heat SB-12 Package Package A1 Ventilation Load 1.118 Btuh. R/A Temp 70 deg. F. Heating Check 1170 cfm Cooling Check 963 cfm Ventilation PVC 79.5 cfm S/A Temp 116 deg. F. Supply Branch and Grill Sizing Diffuser loss 0.01 "w.c. Temp. Rise>>> 46 deg. F. Selected cfm> 1170 cfm **Cooling Air Flow Rate** 963 cfm

							Leve	11													Leve	l 2						
S/A Outlet No.	1	2	3	4											5	6	7	8	9	10	11	12						
Room Use	BASE	BASE	BASE	BASE											KIT	KIT	DIN	MUD	FOY	PWD	GRT	GRT						
Btu/Outlet	3536	3536	3536	3536											2021	2021	2616	1955	3166	910	1812	1812						
Heating Airflow Rate CFM	90	90	90	90											51	51	66	50	80	23	46	46						
Cooling Airflow Rate CFM	11	11	11	11											95	95	83	63	63	15	39	39						
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	0.13	0.13
Actual Duct Length	30	40	12	31											40	45	13	14	41	34	28	39						
Equivalent Length	110	130	80	120	70	70	70	70	70	70	70	70	70	70	120	140	110	90	120	130	120	140	70	70	70	70	70	70
Total Effective Length	140	170	92	151	70	70	70	70	70	70	70	70	70	70	160	185	123	104	161	164	148	179	70	70	70	70	70	70
Adjusted Pressure	0.09	80.0	0.14	0.09	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.08	0.07	0.11	0.13	0.08	0.08	0.09	0.07	0.19	0.19	0.19	0.19	0.19	0.19
Duct Size Round	6	6	6	6											6	6	6	5	6	4	5	5						
Outlet Size	4x10	3x10	4x10	3x10	3x10	3x10	4x10	4x10	4x10	4x10	4x10	4x10																
Trunk	В	С	Α	D											В	С	Α	Α	D	D	В	В						
							Leve	13													Leve	l 4						
S/A Outlet No.	13	14	15	16	17	18	19	20	21	22																		

Trunk	<u>D</u>		A	ע													Α	Α		ע								
							Lev	el 3													Leve	14						
S/A Outlet No.	13	14	15	16	17	18	19	20	21	22																		
Room Use	MAST	MAST	ENS 2	BED 2	BED 3	BATH	BED 4	BED 4	LAUN	ENS																		
Btu/Outlet	1799	1799	558	1322	2869	942	1849	1849	1111	1550																		
Heating Airflow Rate CFM	46	46	14	34	73	24	47	47	28	39																		
Cooling Airflow Rate CFM	50	50	8	32	70	17	58	58	53	30																		
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	0.13	0.13
Actual Duct Length	55	68	58	65	54	46	50	61	36	59																		
Equivalent Length	95	145	120	135	180	170	120	130	170	155	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Total Effective Length	150	213	178	200	234	216	170	191	206	214	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Adjusted Pressure	0.09	0.06	0.07	0.07	0.06	0.06	0.08	0.07	0.06	0.06	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	0.19
Duct Size Round	5	5	3	4	6	4	5	5	5	5																		
Outlet Size	3x10	3x10	3x10	3x10	4x10	3x10	3x10	3x10	3x10	3x10	4x10																	
Trunk	В	С	С	С	D	D	D	D	В	В																		

Return Branch And Grill Sizing		G	irill Press	ure Loss		0.02 "	w.c					Return Trur	nk Duct Sizing
R/A Inlet No.	1R	2R	3R	4R	5R	6R	7R	8R	9R	10R	11R	Trunk	CFM
Inlet Air Volume CFM	178	480	152	90	90	90	90						
Duct Design Pressure	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	Drop	1170
Actual Duct Length	8	22	41	41	55	53	45					z	1170
Equivalent Length	110	125	195	200	115	215	225	50	50	50	50	Υ	358
Total Effective Length	118	147	236	241	170	268	270	50	50	50	50	X	
Adjusted Pressure	0.10	0.08	0.05	0.05	0.07	0.04	0.04	0.24	0.24	0.24	0.24	w	
Duct Size Round	7.0	11.0	8.0	6.0	6.0	6.0	6.0					V	
Inlet Size	FLC	8	8	8	8	8	8					U	
	x	x	x	x	x	x	x	x	x	x	x	T	
Inlet Size		30	14	14	14	14	14					S	
												R	
Trunk	Υ	Z	z	Υ	z	Υ	Z					Q	

Return Truni	k Duct Sizing					Supply Trui	nk Duct Sizing					
Trunk	CFM	Press.	Round	Rect.	Size	Trunk	CFM	Press.	Round	Rect.	Size	
Orop	1170	0.04	18.0	24x12		Α	1170	0.06	16.5	32x8	24x10	
<u> </u>	1170	0.04	18.0	30x10	24x12	В	580	0.06	12.5	18x8	14x10	
1	358	0.04	11.5	14x8	12x10	С	234	0.06	9.0	8x8	10x7	
(D	384	0.06	11.0	14x8	10x10	
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3						K						



Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643

e-mail dave@gtadesigns.ca

		Builder:	Bay	view Well	ington			Date:			Marc	:h 12, 20	18								Weathe	er Data	Bra	dford	44	-9.4	86 22	48.2					Page 4
2012 OBC		Project:	Gre	en Valley	East		N	lodel:				rossa 17 338-17	7				S	ystem	1		Heat L	oss ^T	81.4 deg. F		Ht gain ^T	1.	1 deg. F	GTA	: 2	2511	Projec Layou		PJ-00204 JB-04488
																															-		
_	Level 1				450	BASE																											
	ft. exposed wall A ft. exposed wall B				156 /	A R		A			A			A R			A			A			A R		A B		A R			A B		A R	
Kun	Ceiling height				3.8	_		3.8 A			3.8 A	•		3.8 A			3.8 A	-		3.8 4	_		3.8 AG		3.8 AG		3.8 AG			3.8 AG		.8 AG	
	Floor area				996 /				rea			krea		O.O A				Area			Area		Area		Area		Are	а		Area	•	Area	
E	xposed Ceilings A					A		A			A			A				A		7			A		A		A	u		A		A	
	xposed Ceilings B					В		В			В			В			Е			E			В		В		В			В		В	
	Exposed Floors					Flr		F			F			FI				-Ir			Flr		Flr		Flr		Fir			Flr		Flr	
	Gross Exp Wall A				585																												
	Gross Exp Wall B																																
	Components			Bain			Gain	L	oss G	iain	L	oss (Gain	Lo	oss G	ain	L	oss C	ain	L	Loss	Gain	Loss	Gain	Loss	Gain	Los	s Gain	<u> </u>	Loss	Gain	Loss	Gain
	North Shaded	3.55	22.93	10.91	3	69																											
	East/West	3.55	22.93	27.35	13	298																											
	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																													
N	Doors et exposed walls A	4.00 21.12	20.35 3.85	2.75 0.52	21 545	427	58 284																										
	et exposed walls B	14.49	5.62	0.52	545		284																										
	xposed Ceilings A	59.22	1.37	0.64																													
	xposed Ceilings B	22.86	3.56	1.66																													
	Exposed Floors	29.80	2.73	0.17																													
Foundation Cond	uctive Heatloss					6252																											
Total Conductive	Heat Loss					7115																											
	Heat Gain						793																										
Air Leakage	Heat Loss/Gain		0.9521	0.0377		6774	30																										
	Case 1		0.08	0.08																													
Ventilation	Case 2		14.07	11.88																													
	Case 3	х	0.04	0.08 239		256	62																										
	Heat Gain People Appliances Loads	1 =.25 pe	roont	4128																													
	Duct and Pipe loss	1 =.25 pt	ercent	10%																													
Level 1 HL Total	14,146	То	tal HL for p			14146																											
Level 1 HG Total			HG per roo				1150																										
					_						_						_			_				,									
	Level 2					KIT			DIN			MUD			FOY			PWD			GRT												
	ft. exposed wall A				37			26 A			19 A			25 A			10 A			39 A			A		A		A			A		A	
Run	ft. exposed wall B				10.0	В		10.0	3		12.0	3		11.0			10.0	3		10.0	В		B 10.0		B 10.0		В 10.0			B 10.0	10	В	
	Ceiling height Floor area				239	Araa		238 A			12.0 80 A			75 Aı			10.0 60 A	1		297	A		10.0 Area		10.0 Area		10.0 Are	_	1	10.0 Area	10	.u Area	
-	Exposed Ceilings A					Area A		230 A			00 A			75 AI	ea		00 A			291 F			Area		A		A	d		Area		A	
	xposed Ceilings B					В		В			В			В			É			É			В		B		В			В		В	
	Exposed Floors					Fir		F			F			FI	r			- Flr			Fir		Flr		Fir		Fir			Fir		Fir	
	Gross Exp Wall A				370			260			228			275			100			390													
	Gross Exp Wall B																																
	Components			ain	I	Loss	Gain	L	oss G	iain	L	oss (Gain	Lo	oss G	ain	L	oss G	ain	L	Loss	Gain	Loss	Gain	Loss	Gain	Los	s Gain	1	Loss	Gain	Loss	Gain
	North Shaded	3.55	22.93	10.91				36	825	393																							
	East/West	3.55	22.93	27.35	64	1467	1751							24	550	656				42	963	1149											
	South	3.55	22.93	20.89										12	275	251	10	229	209														
	Existing Windows	1.99	40.90	22.15																													
	Skylight	2.03	40.10	88.23											40=																		
N	Doors	4.00 17.03	20.35 4.78	2.75 0.65	306	1463	198	224	1071	145	21	427 989	58 134	21 218	427 1042	58 141	90	430	58	348	1663	225											
	et exposed walls A et exposed walls B	8.50	9.58	1.29	306	1463	190	224	1071	145	207	909	134	210	1042	141	90	430	30	346	1003	225											
F	xposed Ceilings A	59.22	1.37	0.64																													
	xposed Ceilings B	22.86	3.56	1.66																													
	Exposed Floors	29.80	2.73	0.17																													
Foundation Cond	uctive Heatloss			x																													
Total Conductive	Heat Loss					2930			1896			1417			2295			659			2626												
	Heat Gain						1948			538			191			1106			267			1374											
Air Leakage	Heat Loss/Gain		0.3438	0.0377		1007	73		652	20		487	7		789	42		227	10		903	52											
Vor:	Case 1		0.03	0.08																													
Ventilation	Case 2		14.07	11.88																												_	
	Case 3	х	0.04	80.0		105	153		68	42		51	15		83	87		24	21		94	108										1 1	
	Heat Gain People	1 =.25 pe	orcont.	239 4128	1.5		1548	1.0		1032	1.0		1032																- '	_		7 1	
	Appliances Loads Duct and Pipe loss	1 =.23 pe	er cern	10%	1.5		1548	1.0		1032	1.0		1032																. 4				
Level 2 HL Total	16,313	To	tal HL for p			4043			2616			1955			3166			910			3624							_					
Level 2 HG Total	12,565		HG per roo				4839			2122			1619			1604			387			1993											
																	<u> </u>			_				•		•		ı					
																																2 Dacks	

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

46,105 btu/h Total Heat Loss Total Heat Gain 24,568 btu/h

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

Man 16Cot 2

David DaCosta

SB-12 Package Package A1



Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 o mail dayo@atadosians ca

							e-mail dave	@gtadesigns.ca				
	Builder: Bayview	Wellington Da	te: N	larch 12, 2018			Weather Data	Bradford	44 -9.4	86 22 48.2		Page 5
2012 OBC	Project: Green V	'alley East Moo	lel:	Barossa 17 S38-17		System 1	Heat Loss ^T	81.4 deg. F	Ht gain ^T 11	deg. F GTA: 251	Project # 1 Layout #	PJ-00204 JB-04488
	<u> </u>											
Level 3 Run ft. exposed wall A		MAST 42 A	ENS 2 6 A	BED 2	BED 3 25 A	BATH 7 A	BED 4 32 A	LAUN 11 A	ENS 22 A	A	A	A
Run ft. exposed wall B		42 A B	В	B A	25 A B	B	32 A B	В В	22 A B	В		B
Ceiling height			8.0 8		.0	8.0	10.0	8.0	8.0	8.0 8.		-
Floor area					75 Area	70 Area	202 Area	125 Area	112 Area	Area		Area
Exposed Ceilings A		342 A	50 A 18	19 A 17	75 A	70 A	202 A	125 A	112 A	Α		A
Exposed Ceilings B		В	В	В	В	В	В	В	В	В		В
Exposed Floors		Fir			63 Flr	70 Flr	15 Flr	Flr	Fir	Flr	Fir	Flr
Gross Exp Wall A Gross Exp Wall B		378	48 8	18 20	00	56	320	88	176			
	R-Values Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain
North Shaded		0.91		6 367 175								
East/West	3.55 22.93 27	7.35 32 734 875		1 2	24 550 656	7 161 191	42 963 1149		13 298 356			
South		0.89					18 413 376	16 367 334	4			
Existing Windows		2.15										
Skylight		3.23 2.75										
Doors Net exposed walls A			40 191 26 7	2 344 47 17	76 841 114	49 234 32	260 1243 168	72 344 47	7 163 779 105			
Net exposed walls B		1.29			3	20. 02	12.0		110			
Exposed Ceilings A			50 69 32 18	9 260 121 17	75 241 112	70 96 45	202 278 130	125 172 80	0 112 154 72			
Exposed Ceilings B		1.66										
Exposed Floors	29.80 2.73 0	0.17	1	9 79 5 16	63 445 27	70 191 12	15 41 3					
Foundation Conductive Heatloss Total Conductive Heat Loss		2858	443	1050	2077	682	2937	883	1231			
Total Conductive Heat Gain		1318	145	347	910		1825	46				
Air Leakage Heat Loss/Gain	0.2228 0.0		99 5	234 13	463 34	152 11	654 69	197 17	7 274 20			
Ventilation Case 2		0.08										
		1.88 0.08 103 103	16 11	20 27	75 71	25 22	106 143	32 36	6 44 42			
Case 3 Heat Gain People		0.08 103 103 239 2 478	16 11	38 27 1 239	75 71 1 239	25 22	1 239	32 30	44 42			
Appliances Loads		128						0.5 516	6			
Duct and Pipe loss		10%			1 254 115	1 83 28						
Level 3 HL Total 15,646	Total HL for per ro		558	1322	2869	942	3697	1111	1550			
Level 3 HG Total 10,853	Total HG per room x	1.3 2534	211	815	1780	442	2959	1339	9 773			
Level 4												
Run ft. exposed wall A Run ft. exposed wall B		A B	A B	A B	A B	A B	A B	A B	A B	A B		A B
Ceiling height		ь	ь	В	ь	ь	ь	ь	ь	В	В	В
Floor area		Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
Exposed Ceilings A		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	A
Exposed Ceilings B		В	В	В	В	В	В	В	В	В		В
Exposed Floors		Fir	Fir	Fir	Fir	Flr	Fir	Fir	Fir	Flr	Fir	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	Loss Gain	Loss Gain
North Shaded	3.55 22.93 10	0.91										
East/West	3.55 22.93 27	7.35										
South		0.89										
Existing Windows Skylight		2 <u>.15</u> 3.23										
Doors		2.75										
Net exposed walls A		0.65										
Net exposed walls B		1.29										
Exposed Ceilings A		0.64										
Exposed Ceilings B		1.66										
Exposed Floors Foundation Conductive Heatloss	29.80 2.73 0	0.17										
Heat Lean												
Total Conductive Heat Gain												
Air Leakage Heat Loss/Gain	0.0000 0.0											
Ventilation Case 2		0.08										
Ventilation Case 2 Case 3		1.88										
Heat Gain People		239										
Appliances Loads		128										
Duct and Pipe loss	1	10%										
Level 4 HL Total 0	Total HL for per ro								T T T		_	_
Level 4 HG Total 0	Total HG per room x	1.3										

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

46,105 Total Heat Loss btu/h Total Heat Gain 24,568 btu/h

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

Mane Maleta

David DaCosta

SB-12 Package Package A1



Page 6 PJ-00204

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 Project # e-mail dave@gtadesigns.ca Layout # JB-04488 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 Mare Alet David DaCosta Package: Package A1 Project: **Bradford** Model: S38-17 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		
	Builder	
Name	Danies.	
	Bayview Wellington	
Address		

	Builder	
Name		
	Bayview Wellington	
Address		
City		
Tel	Fax	

	Installing Contractor	
Name		
Address		
City		
Tel	Fax	

		Combustion Appliances 9.32.3.1(1)
a)	Х	Direct vent (sealed combustion) only
b)		Positive venting induced draft (except fireplaces)
c)		Natural draft, B-vent or induced draft fireplaces
d)		Solid fuel (including fireplaces)
e)		No combustion Appliances

Heating System						
	Х	Forced air				
		Non forced air				
		Electric space heat (if over 10% of heat load)				

	House Type 9.32.3.1(2)							
I	Х	Type a) or b) appliances only, no solid fuel						
Ш		Type I except with solid fuel (including fireplace)						
Ш		Any type c) appliance						
IV		Type I or II either electric space heat						
Other		Type I, II or IV no forced air						

	System Design Option							
1		Exhaust only / forced air system						
2		HRV WITH DUCTING / forced air system						
3	Х	HRV simplified connection to forced air system						
4		HRV full ducting/not coupled to forced air system						
		Part 6 design						

Total Ventilation Capacity 9.32.3.3(1)									
Bsmt & Master Bdrm Other Bedrooms Bathrooms & Kitchen Other rooms	2 3 5 4	@ @ @	21.2 10.6 10.6 10.6 Total	cfm cfm cfm	42.4 31.8	•			

Principal Ventilation Capacity 9.32.3.4(1)									
Master bedroom Other bedrooms	1 3	_	31.8 15.9 Total		31.8 47.7 79.5				

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

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

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

Supplemental Ventilation Capacity							
Total ventilation capacity	169.6						
Less principal exhaust capacity	79.5						
REQUIRED supplemental vent. Capacity	90.1 cfm						

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

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

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00204 Layout # JB-04488

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

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

For use by Principal Authority												
Application No:					Model/Ce	tification Nu	mber					
A. Project Information												
Building number, street name			Baross	a 17			Unit nu	mber	Lo	ot/Con		
			S38-1	17								
Municipality Bradford		Postal code			Reg. Plan	number / oth	her desc	cription	1			
Bradioid												
B. Prescriptive Compliance [indica	ate the bu	ilding cod	e complia	ance packa	ge being e	employed in	the hou	ıse design	n]			
SB-12 Prescriptive (input design package):				<u>Pack</u>	age A1			T	Гable: <u>3</u>	.1.1.2./	<u>A</u>	
C. Project Design Conditions												
Climatic Zone (SB-1):		Heat. E	auip. El	fficiency			Sp	ace Heat	tina Fue	l Sourc	e	
Zone 1 (< 5000 degree days)					✓	Gas		Prop		П	Solid Fuel	
Zone 2 (≥ 5000 degree days)				% AFUE		Oil		⊒ Flect			Earth Energy	
Ratio of Windows, Skylights & Glass (W, S						O.II						
					☐ Log/F	Post&Beam	Other Building Characteristics				☐ ICF Basement	
Area of Walls = 330.91 m ² or 3561.9	ft² W.S		W,S &G % =			on-ground		— □ Walk	out Base	ment		
		,0 0.0 /		<u>11%</u>		onditioning		Combo Unit				
Area of W, S & G = <u>35.581</u> m ² or <u>383.0</u>	ft²	Utilize Window ☐ Yes		☐ Yes	☐ Air Sourced Heat Pump (ASHP)							
· —		Averaging \square No			Ground Source Heat Pump (GSHP)							
D. Building Specifications [provide	e values a	nd ratings	of the er		encv com	onents pror	posedl	• `	· · · · · · · · · · · · · · · · · · ·			
Energy Efficiency Substitutions					,,							
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))												
☐ Combined space heating and domestic	water he	eating syst	ems (3.1	.1.2(7) / 3.	1.1.3.(7))							
☐ Airtightness substitution(s)		Table 3.1	.1.4.B	Required:	Permitted Substitution:					:		
Airtightness test required		T-1-1-04	4.4.0	Required:	: Permitted Substitution:					:		
(Refer to Design Guide Attached)		Table 3.1	able 3.1.1.4.C Required:			Permitted Substitution:						
Building Component		mum RS //aximun			Building Component				Efficiency Ratings			
Thermal Insulation	Non	ninal	Effe	ective	Windov	vs & Doo	rs Prov	/ide I I-Val	ue ⁽¹⁾ or F	R rating		
Ceiling with Attic Space		60				s/Sliding G			uo 01 L	.r. raurig	1.6	
Ceiling without Attic Space	3	1			Skylights					2.8		
Exposed Floor	3	1			Mechai							
Walls Above Grade	22					Equip.(AFL	UF)			96%		
Basement Walls		20.0ci			HRV Efficiency (SRE% at 0°C)					75%		
		x				eater (EF)		<u> </u>			0.80	
Slab (edge only ≤600mm below grade)		10		DWHR (CSA B55.1 (min. 42% efficiency))				#Showers 2				
Slab (all ≤600mm below grade, or heated) 10					Combine	ed Heating	Syster	m				
(1) U value to be provided in either W/(m²·K) or Bt	u/(h·ft·F) b	out not bot	h.		3							
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso	n(s) prov	iding infor	mation her	ein to subst	tantiate	that desig	n meets b	ouilding (code]	
Name				BCIN		Signature)					
David DaCosta				329	964			Man	re /	4Œ		



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

Page 8
Project # PJ-00204
Layout # JB-04488

Package:Package A1System:System 1Project:BradfordModel:\$38-17

Air Leakage Calculations

Building Air Leakage Heat Loss										
В	B LRairh Vb HL^T HLleak									
0.018 0.319 28974 81.4 13549										

Building Air Leakage Heat Gain				
В	LRairh	Vb	HG^T	HG Leak
0.018	0.079	28974	11	454

	Air Leakage Heat Loss/Gain Multiplier Table (Section 11)						
Level	Level	Building	Level Conductive	Air Leakage Heat Loss			
Level	Factor (LF)	Air	Heat Loss	Multiplier			
Level 1	0.5		7115	0.9521			
Level 2	0.3	13549	11824	0.3438			
Level 3	0.2	13349	12162	0.2228			
Level 4	0		0	0.0000			

		Air Leakage Heat Gain
HG LEAK	454	0.0377
BUILDING CONDUCTIVE HEAT GAIN	12035	0.0377

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

Levels this Dwelling
3

Ventilation Calculations

		Ventilation	Hoat Loce	
Ventilation Heat Loss				
С	PVC	HL^T	(1-E) HRV	HLbvent
1.08	79.5	81.4	0.16	1118

Ventilation Heat Loss

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

Case 1

Case 1 - Exhaust Only						
Level	LF	HLbvent	LVL Cond. HL	Multiplier		
Level 1	0.5		7115	0.08		
Level 2	0.3	1118	11824	0.03		
Level 3	0.2		12162	0.02		
Level 4	0		0	0.00		

Ventilation Heat Loss (Direct Ducted Systems)

Ventilation Heat Gain	(Exhaust Only Systems)

Ventilation Heat Gain (Direct Ducted Systems)

Ventilation Heat Gain (Forced Air Systems)

Case 1

Ventilation Heat Gain

Case 1 - Exh	aust Only	Multiplier
HGbvent	944	0.08
Building	12035	0.06

Case 2

		Multiplier
HL^T	(1-E) HRV	14.07
81.4	0.16	14.07

1.08

		Multiplier
С	HG^T	11.88
1.08	11	11.00

C 2	C 2
Case 3	Case 3

Ventilation He	at Loss (Force	d Air Systams)
ventilation ne	at LOSS (FOICE	u Ali Systems)

	HLbvent	Multiplier
Total Ventilation Load	1118	0.04

		Vent Heat Gain	Multiplier
HGbvent	HG*1.3	944	0.08
		344	0.00

Foundation Conductive Heatloss Level 1 1832 Watts 6252 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 Shiel	ding
Building Site:	Suburban, forest
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	6.63
Building Confi	guration
Type:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m ³):	820.54
Air Leakage/Ve	entilation
Air Tightness Type:	Present (1961-) (ACH=3.57)
	ELA @ 10 Pa. 322.44 cm ²
Custom BDT Data:	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply: Total Exhaust:
, ,	39.75
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Heating Air Leakage Rate (ACH/H):	0.319
Cooling Air Leakage Rate (ACH/H):	0.079

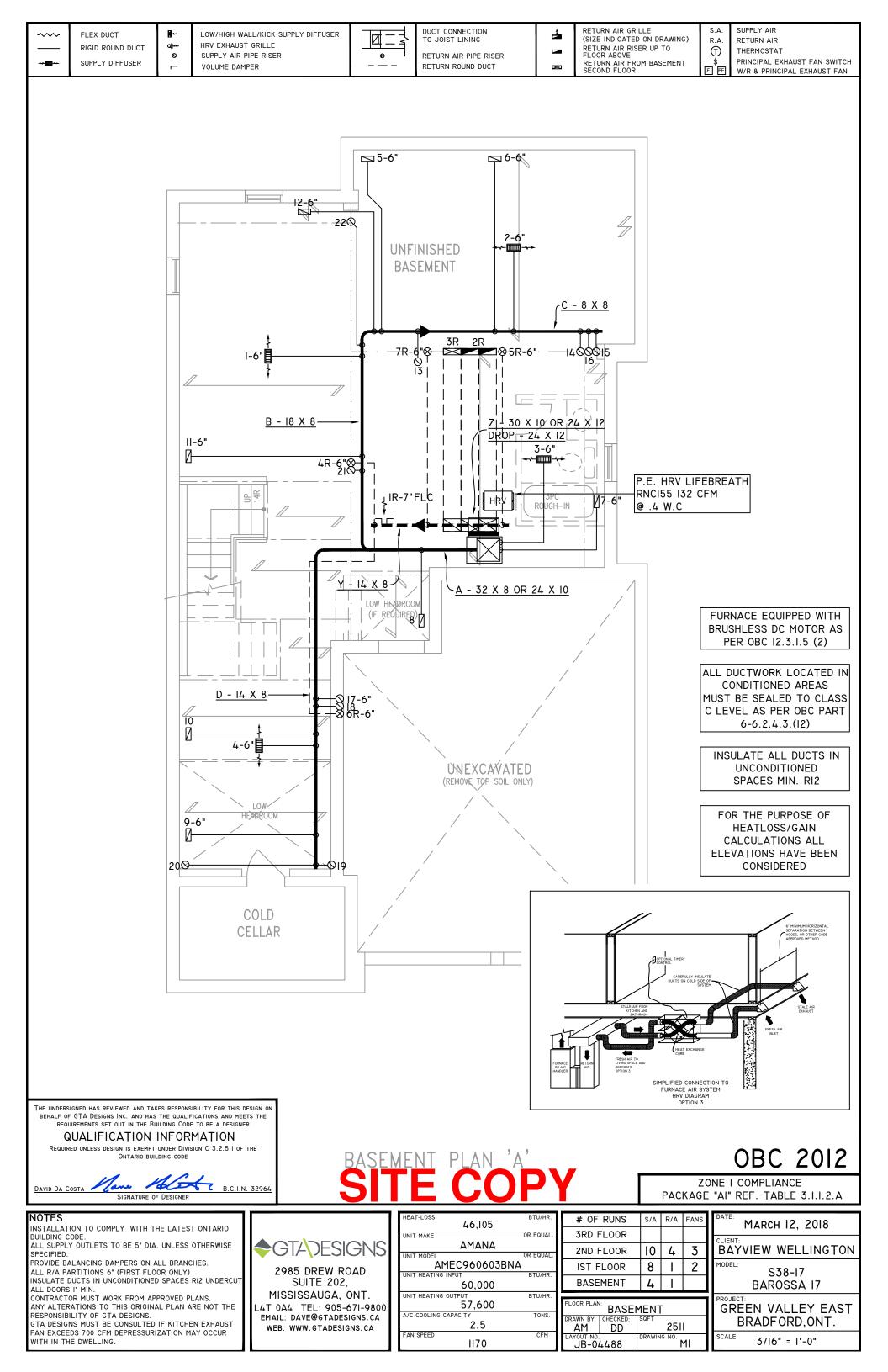


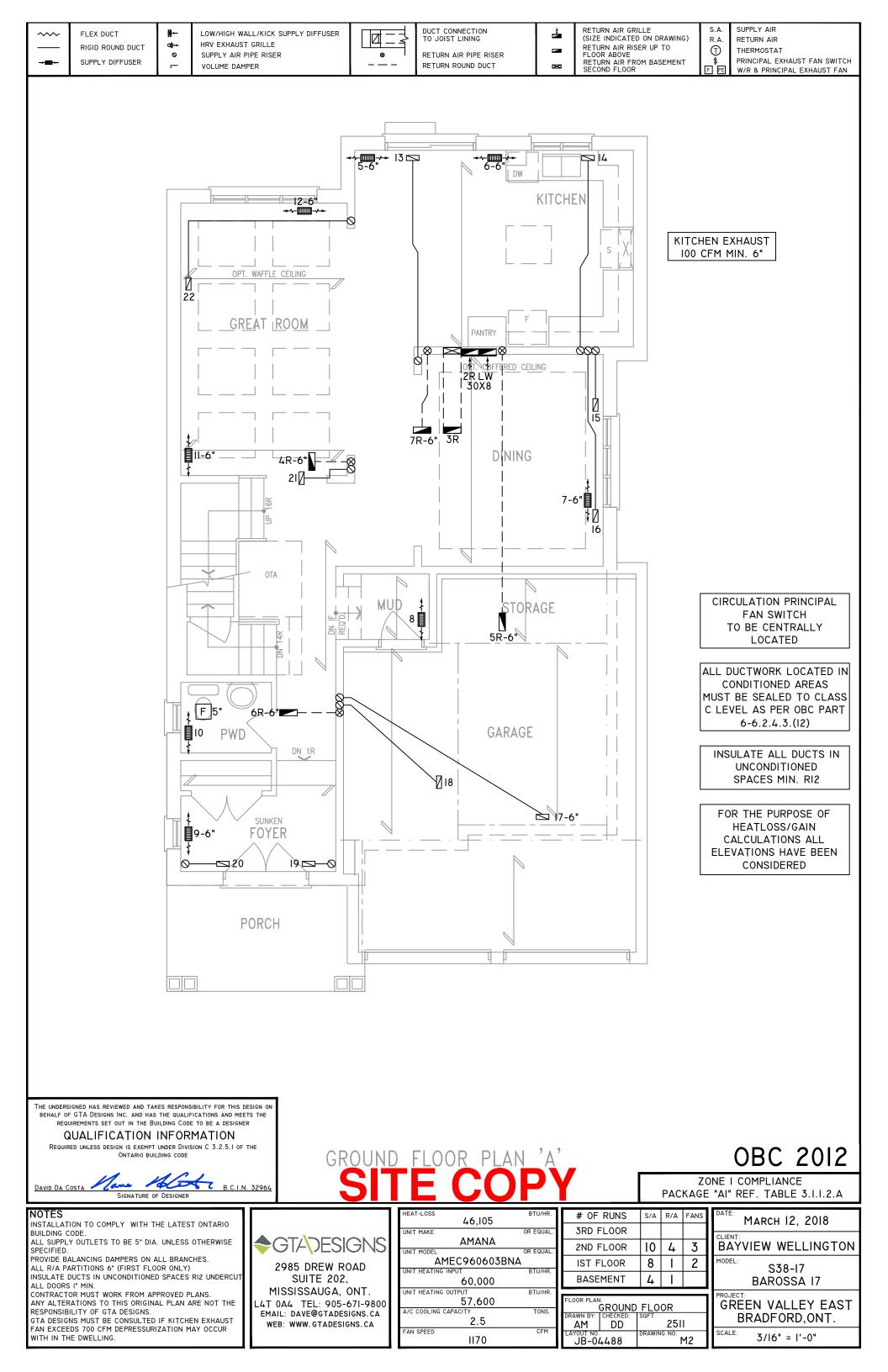
Residential Foundation Thermal Load Calculator

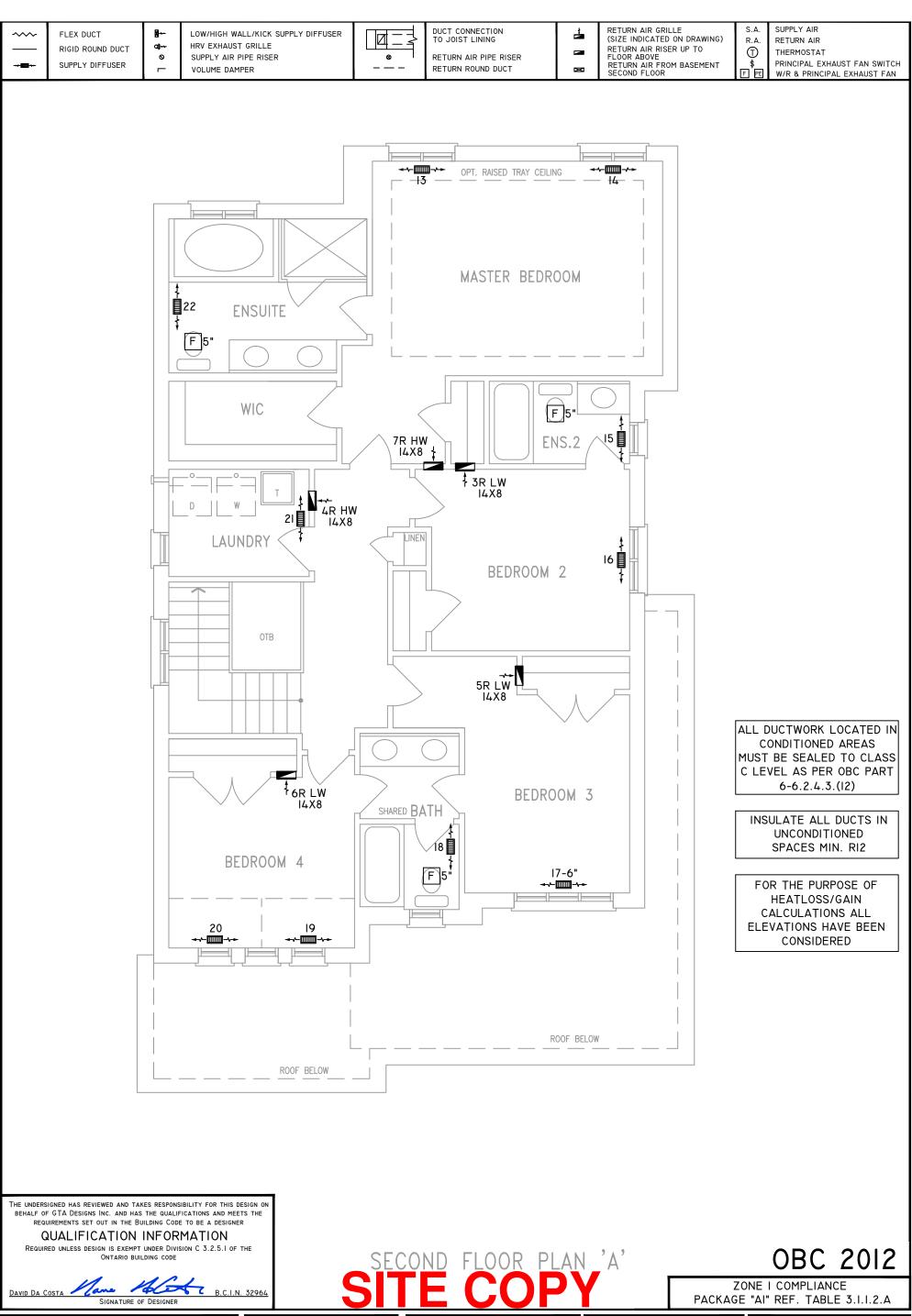
Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:		Ontario		
Region:		Bradford ▼		
	Site D	escription		
Soil Conductivity:		High conductivity: moist soil ▼		
Water Table:		Normal (7-10 m, 23-33 Ft)		
Fou	ındatio	on Dimensions		
Floor Length (m):	18.87			
Floor Width (m):	4.90			
Exposed Perimeter (m):	47.55			
Wall Height (m):	2.74			
Depth Below Grade (m):	1.60	Insulation Configuration		
Window Area (m²):	1.77			
Door Area (m²):	1.95			
	Radi	iant Slab		
Heated Fraction of the Slab:	0			
Fluid Temperature (°C):	33			
	Desig	n Months		
Heating Month	1			
	Foundation Loads			
Heating Load (Watts):		1832		









INSTALLATION TO COMPLY WITH THE LATEST ONTARIO

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

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

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

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

GTADESIGNS

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

WEB: WWW.GTADESIGNS.CA

46,105	5 (0 / 1 11 1 1
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603BNA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.5	
FAN SPEED	CFM
1170	

# OF RUNS	S/A	R/A	FANS	
3RD FLOOR				
2ND FLOOR	10	4	3	
IST FLOOR	8	-	2	
BASEMENT	4	-		
FLOOR PLAN: SECOND FLOOR				

DD

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JB-04488

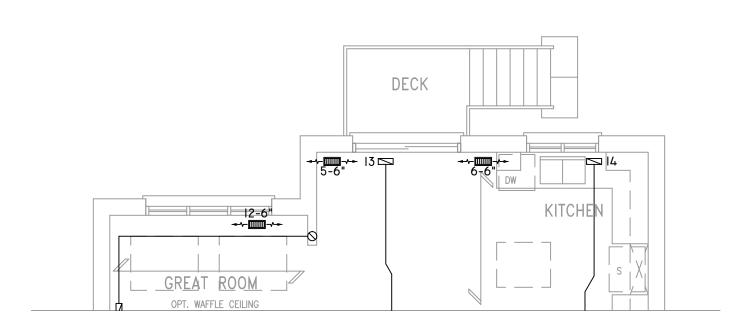
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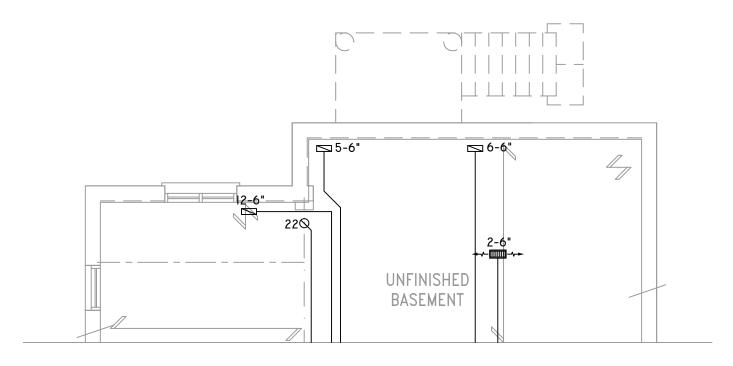
MARCH 12, 2018 **BAYVIEW WELLINGTON** MODEL: S38-I7 BAROSSA 17

GREEN VALLEY EAST BRADFORD, ONT. 3/16" = 1'-0"

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



PART. GROUND FLOOR PLAN EL. 'A', 'B' & 'C' W/ 9R OR MORE W.O.D. CONDITION



PART. BASEMENT PLAN EL. 'A', 'B' & 'C' W/ 9R OR MORE W.O.D. CONDITION



SITE COPY

OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" 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

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

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

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



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WEB: WWW.GTADESIGNS.CA

40,100	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603BNA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.5	
FAN SPEED	CFM
1170	

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
IST FLOOR	8	-	2
BASEMENT	4	_	
ELOOP BLAN			
FLOOR PLAN: PARTIAL PLAN(S)			

DD

JB-04488

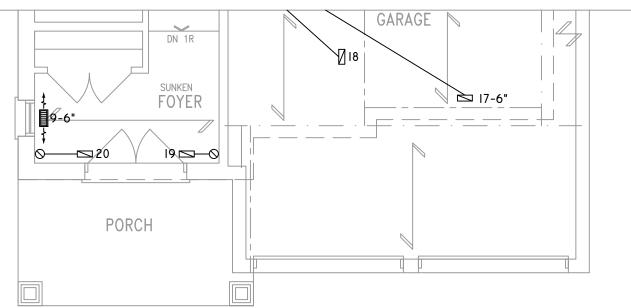
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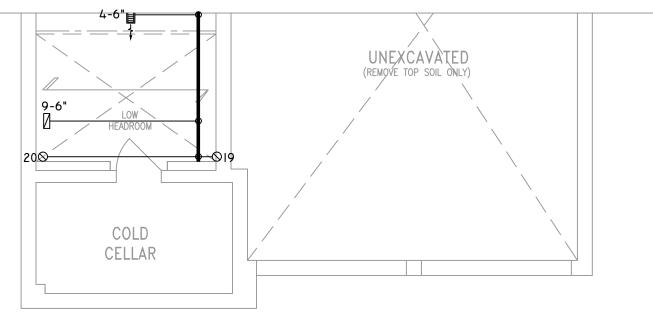
MARCH 12, 2018
CLIENT: BAYVIEW WELLINGTON
MODEL: S38-17
BAROSSA 17
PROJECT:

GREEN VALLEY EAST BRADFORD,ONT.

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) SUPPLY AIR DUCT CONNECTION FLEX DUCT LOW/HIGH WALL/KICK SUPPLY DIFFUSER 4 TO JOIST LINING R.A. RETURN AIR HRV EXHAUST GRILLE **a)**→ RETURN AIR RISER UP TO FLOOR ABOVE RIGID ROUND DUCT 1 THERMOSTAT RETURN AIR PIPE RISER SUPPLY AIR PIPE RISER 8 PRINCIPAL EXHAUST FAN SWITCH SUPPLY DIFFUSER RETURN AIR FROM BASEMENT SECOND FLOOR **VOLUME DAMPER** RETURN ROUND DUCT W/R & PRINCIPAL EXHAUST FAN F 6R LW SHARED BATH BEDROOM 2 BEDROOM 2 17-6" F 5' RAISED CEILING 2'-0" **---**20 19 -----~-**||||**-ROOF BELOW FLAT ROOF BELOW PART. SECOND FLOOR PLAN 'B' **GARAGE** DN 1R



PART. GROUND FLOOR 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

PART. BASEMENT PLAN 'B'

OBC 2012

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

INSTALLATION TO COMPLY WITH THE LATEST ONTARIO

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

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

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

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

♦GTA\DESIGNS

2985 DREW ROAD SUITE 202,

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

46,105	_,
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603BNA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.5	
FAN SPEED	CFM
1170	

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	9	4	3
IST FLOOR	8	-	2
BASEMENT	4	_	
FLOOR PLAN: PARTIAL I	PLAN	1(S)	
	SQFT	.,,,	

DD

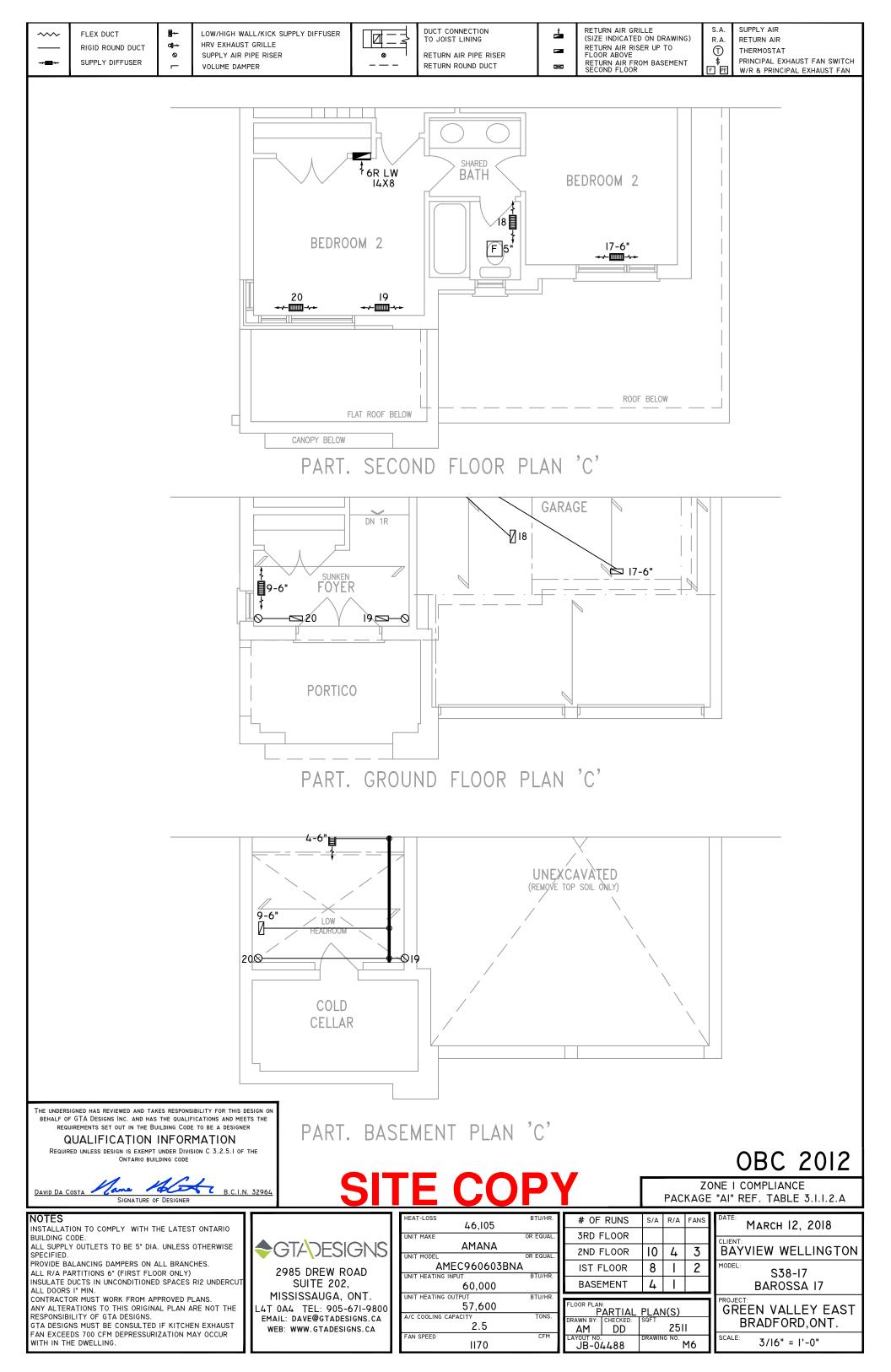
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JB-04488

	ď	ı		S38-
	4	-		BAROSS
ļ	PLAN SQFT	N(S) 251	l	GREEN VALL BRADFOR
[DRAWIN	IG NO.	4 5	SCALE: 3/16" =

MARCH 12, 2018 **BAYVIEW WELLINGTON** -17 SA 17

LEY EAST D,ONT. 3/16" = 1'-0"



FLEX DUCT
RIGID ROUND DUCT
SUPPLY DIFFUSER

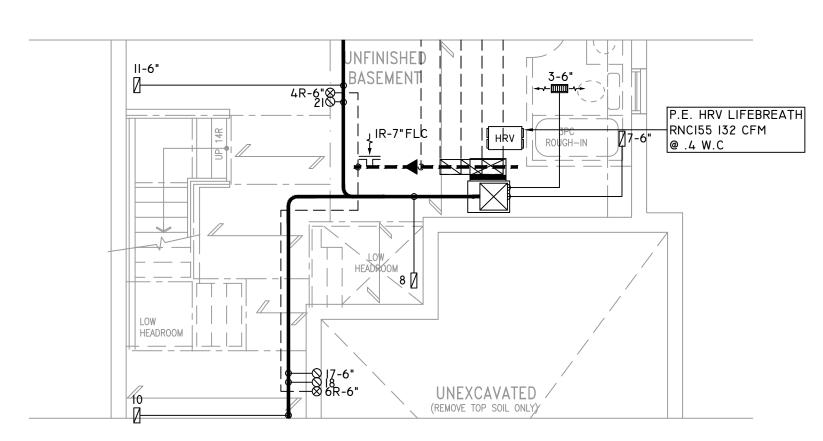
LOW/HIGH WALL/KICK SUPPLY DIFFUSER
HRV EXHAUST GRILLE
SUPPLY AIR PIPE RISER
VOLUME DAMPER



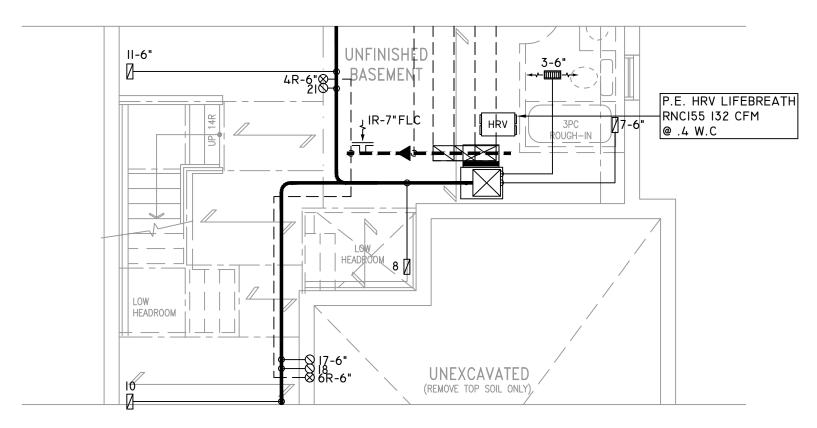
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

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

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



PART. BASEMENT PLAN FOR SUNKEN MUD COND.



PART. BASEMENT PLAN FOR -2R OR MORE SUNKEN MUD COND.

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

SITE COPY

OBC 2012

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

NOTES

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

SPECIFIED.

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

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

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



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

WEB: WWW.GTADESIGNS.CA

46,105	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603BNA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.5	
FAN SPEED	CFM
1170	

# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
IST FLOOR	8	-	2
BASEMENT	4	_	
FLOOR PLAN: PARTIAL PLAN(S)			
DDAWN DV. CHECKED.	CVET		

AM DD

JB-04488

25II

M7

MARCH 12, 2018
CLIENT: BAYVIEW WELLINGTON
S38-I7 BAROSSA I7
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
SUPPLY AIR PIPE RISER
VOLUME DAMPER

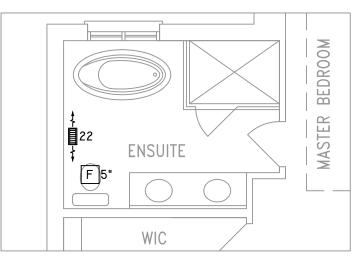


DUCT CONNECTION
TO JOIST LINING

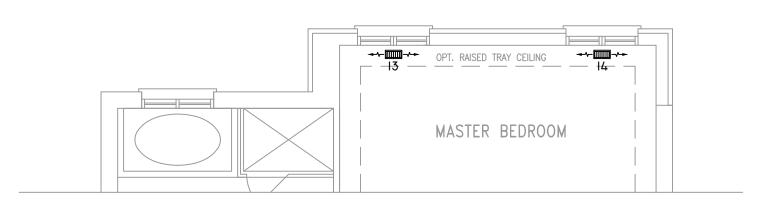
RETURN AIR PIPE RISER
RETURN ROUND DUCT

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

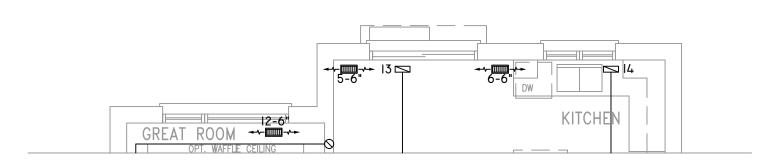
SUPPLY AIR
RETURN AIR
THERMOSTAT
PRINCIPAL EXHAUST FAN SWITCH
W/R & PRINCIPAL EXHAUST FAN



OPT. SECOND FLOOR W/ ALT. ENSUITE LAYOUT



PARTIAL SECOND FLOOR PLAN ELEVATION 'C' REAR UPGRADE



PARTIAL GROUND FLOOR PLAN ELEVATION 'C' REAR UPGRADE

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

SITE COPY

OBC 2012

ZONE I COMPLIANCE PACKAGE "AI" 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

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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.



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40,100	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603BNA	
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
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FAN SPEED	CFM
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# OF RUNS	S/A	R/A	FANS
3RD FLOOR			
2ND FLOOR	10	4	3
IST FLOOR	8	-	2
BASEMENT	4	-	
FLOOR PLAN: PARTIAL	PLAN	۱(S)	

25II

M8

AM DD

JB-04488

MARCH 12, 2018
BAYVIEW WELLINGTON
S38-I7 BAROSSA I7
PROJECT: GREEN VALLEY EAST

BRADFORD, ONT.

3/16" = 1'-0"