

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 16		Lot:	
S38-			Lot/con.	
Municipality Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for design	gn activities	T		
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202			Lot/con.
Municipality Mississauga	Postal code L4T 0A4	Province Ontario	E-mail <u>dave@gtadesi</u>	gns.ca
Telephone number	Fax number		Cell number	
(905) 671-9800 C. Design activities undertaken by individual identified in S		') 494-9643	(416) 268-6	820
C. Design activities undertaken by individual identified in S	ection b. [bu	iliding Code Table 3	5.5.2.1 OF DIVISION C	
☐ House ☑ HVAC – H	louse		■ Building Structural	
☐ Small Buildings ☐ Building Se			☐ Plumbing – House	
	Lighting and Po	wer	☐ Plumbing – All Buildings	
☐ Complex Buildings ☐ Fire Protect			On-site Sewage System	
Description of designer's work Mod	del Certification	1	Project #:	PJ-00204
Heating and Cooling Load Calculations Main	X	Builder	Layout #: Bayview Wellingto	JB-04487
Air System Design Alternate	^	Project	Green Valley East	
Residential mechanical ventilation Design Summary Area Sq ft:	2386	Model	Barossa 16	
Residential System Design per CAN/CSA-F280-12			\$38-16	
Residential New Construction - Forced Air D. Declaration of Designer		SB-12	Package A1	
David DaCosta	declare that (c	choose one as appro	nriate):	
	deciare triat (e	shoose one as appro	priato).	
(print name)				
☐ I review and take responsibility for	the design work	on hehalf of a firm regi	stared under subsection	
3.2.4 Division C of the Building Cod				
classes/categories.				
Individual BCIN:			•	
Firm BCIN:			•	
	the design and	am qualified in the app	ropriate category as an	
"other designer" under subsection	3.2.5 of Division	C, of the Building Cod	e.	
Individual BCIN:	3296	64		
Basis for exemp	tion from registra	ation:	Division C 3.2.4.1. (4)	
☐ The design work is exempt from the	e registration and	d qualification requirem	nents 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	ny knowledge.			
I have submitted this application with the knowledge and consent	of the firm.			
March 12, 2018		Mana Ho	-	
Date		Signature of De	signer	

NOTE:

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d), of Division C, Article 3.2.5.1. of Division C and all other persons who are exempt from qualifications under Subsections 3.2.4. and 3.2.5.of Division C.

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



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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-04487
Building	Location
Address (Model): \$38-16	Site: Green Valley East
Model: Barossa 16	Lot:
City and Province: Bradford	Postal code:
Calculations	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: 2386
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 p	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



Builder: Bayview Wellington

Air System Design

Date:

SB-12 Package A1 March 12, 2018

Barossa 16

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

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

Page 3 Project # PJ-00204

Project: Green V	alley Ea	st	ı	Model:			Baros S38					Sy	/stem	1		of the Bui ndividual		32964	Mo	ene la	4€€	7 [David DaC	Costa		ject # /out #	JB-	04487
DESIGN LOAD SPECIFICATION	S			AIR DIST	RIBUTION	& PRES	SURE				E	URNACE	AIR HA	NDLER D	ATA:		[BOILER/V	VATER HI	EATER D	ATA:			A	VC UNIT	DATA:		
Level 1 Net Load Level 2 Net Load Level 3 Net Load Level 4 Net Load Total Heat Loss	13,736 i 19,081 i 13,940 i 0 i 46,758 i	btu/h btu/h btu/h		Additiona Available Return B	nt Externa al Equipme Design P ranch Lon um Pressu	ent Press ressure igest Effe	sure Drop		0.5 0.225 0.275 300 0.138	"w.c. ft	I I	Make Model nput Btu/ Dutput Bt E.s.p.	'h	Ama AMEC9600 6000 5760 0.50	603BNA 00 00	' W.C.		Make Model Input Btu/ Output Bt Min.Outpu	u/h			Type AWH		(Amana Cond Coil		2.5 T 2.5 2.5	on
Total Heat Gain	25,421 i				ım Pressu				0.14			Nater Ten	np			deg. F.	L				W		wer DATA					
Combo System HL + 10% Building Volume Vb	51,434 I 27268 f			_	Air Flow P Air Flow P	-	-			cfm/btuh cfm/btuh		AFUE Aux. Heat		96%	6			Blower Sp	eed Sele	cted:	VVZ	2		E	Blower Ty	pe E ss DC OE	CM	E (2))
Ventilation Load	1,118 I			Cooling A	All Flow F		R/A Tem			deg. F.		SB-12 Pac	kage	Packag	e A1			Heating C	heck	1170 c	efm				Cooling C		963 c	
Ventilation PVC	79.5						S/A Temp			deg. F.									_							_		
Supply Branch and Grill Sizing			1	Diffuser I	oss _	0.01	"w.c.			-	1	Гетр. Ris	e>>>	<u>46</u>	leg. F.			Selected of	cfm>	1170 c	cfm		C	Cooling A	ir Flow R	ate _	963 c	fm
							Lev	el 1													Leve	1 2						
S/A Outlet No.	1	2	3	4										•	5	6	7	8	9	10	11	12	13					
Room Use	BASE	BASE	BASE	BASE											KIT	KIT	LIV	LIV	MUD	FOY	FOY	PWD	DIN					
Btu/Outlet	3434	3434	3434	3434											2597	2597	1359	1359	1833	3416	3416	792	1711					
Heating Airflow Rate CFM	86	86	86	86											65	65	34	34	46	85	85	20	43					
Cooling Airflow Rate CFM	14	14	14	14											96	96	59	59	10	76	76	14	68					
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	31	32	22	29											44	47	42	32	35	30	33	6	14					
Equivalent Length	125	80	100	100	70	70	70	70	70	70	70	70	70	70	90	130	120	120	180	80	90	100	170	70	70	70	70	70
Total Effective Length	156	112	122	129	70	70	70	70	70	70	70	70	70	70	134	177	162	152	215	110	123	106	184	70	70	70	70	70
Adjusted Pressure	0.08	0.12	0.11	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.10	0.07	0.08	0.09	0.06	0.12	0.11	0.12	0.07	0.19	0.19	0.19	0.19	0.19
Duct Size Round	6	6	6	6											6	6	5	5	5	6	6	3	6					
Outlet Size	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	4x10	3x10	3x10	3x10	4x10	4x10	3x10	4x10	4x10	4x10	4x10	4x10	4x10
Trunk	В	В	В	Α											В	С	С	С	С	Α	Α	Α	В					
							Lev	el 3													Leve	l 4						
S/A Outlet No.	14	15	16	17	18	19	20	21	22	23																		
S/A Outlet No. Room Use	14 MAST	15 MAST	16 ENS	17 BED 2	18 BATH	19 WIC	20 BED 3	21 BED 3	22 LAUN	23 BED 4																		
Room Use	MAST	MAST	ENS	BED 2	BATH	WIC	BED 3	BED 3	LAUN	BED 4																		
Room Use Btu/Outlet	MAST 1909	MAST 1909	ENS 1246	BED 2 1439	BATH 965	WIC 771	BED 3 1760	BED 3 1760	LAUN 936	BED 4 1245																		
Room Use Btu/Outlet Heating Airflow Rate CFM	MAST 1909 48	MAST 1909 48	ENS 1246 31	BED 2 1439 36	965 24	WIC 771 19	BED 3 1760 44	BED 3 1760 44	LAUN 936 23	BED 4 1245 31	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
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM	MAST 1909 48 48	MAST 1909 48 48	ENS 1246 31 27	BED 2 1439 36 33	965 24 11	WIC 771 19 11	BED 3 1760 44 49	BED 3 1760 44 49	23 40	BED 4 1245 31 38	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
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure	MAST 1909 48 48 0.13	MAST 1909 48 48 0.13	ENS 1246 31 27 0.13	BED 2 1439 36 33 0.13	965 24 11 0.13	WIC 771 19 11 0.13	BED 3 1760 44 49 0.13	BED 3 1760 44 49 0.13	936 23 40 0.13	BED 4 1245 31 38 0.13	0.13 70	0.13 70	0.13	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13 70	0.13
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length	MAST 1909 48 48 0.13 44	MAST 1909 48 48 0.13 56	ENS 1246 31 27 0.13 65	BED 2 1439 36 33 0.13 46	965 24 11 0.13 46	WIC 771 19 11 0.13 50	BED 3 1760 44 49 0.13 50	BED 3 1760 44 49 0.13 49	936 23 40 0.13	BED 4 1245 31 38 0.13 30																		
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length	MAST 1909 48 48 0.13 44 155	MAST 1909 48 48 0.13 56 150	ENS 1246 31 27 0.13 65 150	BED 2 1439 36 33 0.13 46 130	965 24 11 0.13 46 170	WIC 771 19 11 0.13 50 160	BED 3 1760 44 49 0.13 50 150	BED 3 1760 44 49 0.13 49 140	936 23 40 0.13 19	BED 4 1245 31 38 0.13 30 110	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length	MAST 1909 48 48 0.13 44 155 199	MAST 1909 48 48 0.13 56 150 206	ENS 1246 31 27 0.13 65 150 215	BED 2 1439 36 33 0.13 46 130 176	965 24 11 0.13 46 170 216	WIC 771 19 11 0.13 50 160 210	BED 3 1760 44 49 0.13 50 150 200	BED 3 1760 44 49 0.13 49 140 189	23 40 0.13 19 105 124	BED 4 1245 31 38 0.13 30 110 140	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure	MAST 1909 48 48 0.13 44 155 199 0.07	MAST 1909 48 48 0.13 56 150 206 0.06	ENS 1246 31 27 0.13 65 150 215	BED 2 1439 36 33 0.13 46 130 176 0.07	965 24 11 0.13 46 170 216 0.06	WIC 771 19 11 0.13 50 160 210	BED 3 1760 44 49 0.13 50 150 200 0.07	BED 3 1760 44 49 0.13 49 140 189 0.07	LAUN 936 23 40 0.13 19 105 124 0.10	BED 4 1245 31 38 0.13 30 110 140 0.09	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round	MAST 1909 48 48 0.13 44 155 199 0.07 5	MAST 1909 48 48 0.13 56 150 206 0.06 5	ENS 1246 31 27 0.13 65 150 215 0.06 4	BED 2 1439 36 33 0.13 46 130 176 0.07	965 24 11 0.13 46 170 216 0.06	WIC 771 19 11 0.13 50 160 210 0.06	BED 3 1760 44 49 0.13 50 150 200 0.07 5	BED 3 1760 44 49 0.13 49 140 189 0.07 5	LAUN 936 23 40 0.13 19 105 124 0.10 4	BED 4 1245 31 38 0.13 30 110 140 0.09	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Autual Duct Length Outlet Size Round Outlet Size Trunk	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5	LAUN 936 23 40 0.13 19 105 124 0.10	BED 4 1245 31 38 0.13 30 110 140 0.09	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No.	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5	LAUN 936 23 40 0.13 19 105 124 0.10	BED 4 1245 31 38 0.13 30 110 140 0.09	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing	70 70 0.19 4x10	70 70 0.19	70 70 0.19	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los 4R 104	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los:	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 0.02 9 6R 155 0.12	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Frunk	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C Grill Pres 3R 104 0.12	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los: 4R 104 0.12 48	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A s 5R 155 0.12 55	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 0.02 6R 155 0.12 52	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Trunk	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Trunk	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125	ENS 1246 31 27 0.13 65 150 2215 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los 4R 104 0.12 48 205	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 0.02 6R 155 0.12 52 155	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 440 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Frunk Drop	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk A B C	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Equivalent Length	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125 157	ENS 1246 31 27 0.13 65 150 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los 4R 104 0.12 48 205 253	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 0.02 6R 155 0.12 52 155 207	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A "w.c	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50 50	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Frunk Drop	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88 0.13	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209 0.06	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los 4R 104 0.12 48 205 253 0.05	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A 5 FR 155 0.12 55 205 260 0.05	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 155 0.12 52 207 0.06	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 440 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12	70 70 0.19 4x10 <u>F</u>	70 70 0.19 4x10 Return Ti Frunk Orop Z (70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk A B C	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88 0.13 7.0	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125 157	ENS 1246 31 27 0.13 65 150 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los 4R 104 0.12 48 205 253	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 0.02 6R 155 0.12 52 155 207	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A "w.c	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50 50	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Frunk Orop Z (70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Inlet Size	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88 0.13	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125 157 0.07	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209 0.06	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los 4R 104 0.12 48 205 253 0.05	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A 5 FR 155 0.12 55 205 260 0.05	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 155 0.12 52 207 0.06	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A "w.c	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50 50	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10 <u>F</u>	70 70 0.19 4x10 Return Ti Frunk Orop Z (70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88 0.13 7.0	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125 157 0.07 11.5	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209 0.06	BED 2 1439 36 33 0.13 46 6130 176 0.07 4 3x10 C sure Los: 4R 104 0.12 48 205 253 0.05 6.0	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A 5 FR 155 0.12 55 205 260 0.05	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 155 0.12 52 155 207 0.06 8.0	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A "w.c	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50 50	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Frunk Drop Z	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk A B C	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Inlet Size	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88 0.13 7.0 FLC	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125 157 0.07 11.5 8	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209 0.06 6.0	BED 2 1439 36 33 0.13 46 6130 176 0.07 4 3x10 C sure Los: 4R 104 0.12 48 205 253 0.05 6.0 8	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A 5 5 0.12 55 200 0.05 8.0 8	WIC 771 19 11 0.13 50 210 0.06 4 3x10 A 0.02 155 0.12 52 155 207 0.06 8.0 8	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A "w.c	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50 0.24	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10	70 70 0.19 4x10 Return Ti Frunk Drop Z	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk A B C D E	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19
Room Use Btu/Outlet Heating Airflow Rate CFM Cooling Airflow Rate CFM Duct Design Pressure Actual Duct Length Equivalent Length Adjusted Pressure Duct Size Round Outlet Size Trunk Return Branch And Grill Sizing R/A Inlet No. Inlet Air Volume CFM Duct Design Pressure Actual Duct Length Equivalent Length Total Effective Length Adjusted Pressure Duct Size Round Inlet Size Duct Size Round Inlet Size " "	MAST 1909 48 48 0.13 44 155 199 0.07 5 3x10 B 1R 172 0.12 13 75 88 0.13 7.0 FLC	MAST 1909 48 48 0.13 56 150 206 0.06 5 3x10 B 2R 480 0.12 32 125 157 0.07 11.5 8 x	ENS 1246 31 27 0.13 65 150 215 0.06 4 3x10 C Grill Pres 3R 104 0.12 44 165 209 0.06 6.0 8 x	BED 2 1439 36 33 0.13 46 130 176 0.07 4 3x10 C sure Los: 4R 104 0.12 48 205 253 0.05 6.0 8 x	BATH 965 24 11 0.13 46 170 216 0.06 4 3x10 A	WIC 771 19 11 0.13 50 160 210 0.06 4 3x10 A 0.02 52 155 207 0.06 8.0 8 x	BED 3 1760 44 49 0.13 50 150 200 0.07 5 3x10 A "w.c	BED 3 1760 44 49 0.13 49 140 189 0.07 5 3x10 A	LAUN 936 23 40 0.13 19 105 124 0.10 4 3x10 A 9R 0.12 50 0.24	BED 4 1245 31 38 0.13 30 110 140 0.09 4 3x10 A	70 70 0.19 4x10 11R 0.12 50	70 70 0.19 4x10	70 70 0.19 4x10 Ax10 Return Ti Frunk Drop Z	70 70 0.19 4x10	70 70 0.19 4x10 Sizing CFM I	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round 17.0	70 70 0.19 4x10 Rect. :	70 70 0.19 4x10 Size	70 70 0.19 4x10	70 70 0.19 4x10 Supply Tr Frunk A B C D E	70 70 0.19 4x10 unk Duct	70 70 0.19 4x10 Sizing CFM F	70 70 0.19 4x10 Press. F	70 70 0.19 4x10 Round	70 70 0.19 4x10 Rect. \$	70 70 0.19 4x10	70 70 0.19



Heatloss/Gain Calculations CSA-F280-12

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

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		Builder:	Вау	view Wel	lington	1		Date:			March 1	2, 2018							v	Veather Da	ıta	Bradford	I 44	-9.4	86 22	48.2				Page 4
2012 OBC		Drainati	C=	een Valley	. Foot			lodel:			Baros S38	sa 16				s	ystem 1	1		Hoat Loss	^T 81.4 d	dog E	Ht gain ^T	11	deg. F	GTA:	2386	P	roject # ayout #	PJ-00204 JB-04487
2012 OBC		Project:	Gre	een valley	y East		- N	lodel: _			538	-16			•		,			neat Loss	^1 81.4 (ieg. F	nt gain ^i	11	aeg. r	GIA:	2386		ayout #	JB-04487
	Level 1 un ft. exposed wall A un ft. exposed wall B				151	BASE A B			A 3		A B			A B			A B		A B		,	A 3	A B		A B		A B		A B	
	Ceiling height				3.8			3.8			3.8 AG		3.8	AG		3.8	AG		3.8 AC	3	3.8	AG	3.8 AG		3.8 AG		3.8 AG		3.8 A	G
	Floor area Exposed Ceilings A					Area A			Area A		Area A	ı		Area A			Area A		Ar A			Area A	Area A		Area A		Area A	1	A A	rea
	Exposed Ceilings B					В			3		В			В			В		В			3	В		В		В		В	
	Exposed Floors					Flr			Flr		Flr			Flr		-	Flr		Fli	r		-Ir	Flr		Flr		Flr		FI	r
	Gross Exp Wall A Gross Exp Wall B				566																									
	Components			Gain			Gain		oss (Gain	Los	Gair		Loss	Gain	ا	Loss G	ain	Lo	ss Gair		oss Gair	n Loss	Gain	Loss	Gain	Los	Gain	Lo	oss Gain
	North Shaded East/West	3.55 3.55	22.93 22.93	10.91 27.35		69 459																								
	South	3.55	22.93	20.89		138																								
	WOB Windows	3.15	25.84	28.32																										
	Skylight Doors	2.03 4.00	40.10 20.35	88.23 2.75		427	58																							
ı	Net exposed walls A	21.12	3.85	0.52	516		269																							
	Net exposed walls B	14.49	5.62	0.76																										
	Exposed Ceilings A Exposed Ceilings B	59.22 22.86	1.37 3.56	0.64 1.66																										
	Exposed Floors	29.80	2.73	0.17																										
Foundation Con	nductive Heatloss	On Grade	() or Abo			6022																								
Total Conductive	Heat Loss Heat Gain					7114	1032																							
Air Leakage	Heat Loss/Gain		0.8961	0.0332		6376																								
V	Case 1		0.08	0.07																										
Ventilation	Case 2 Case 3	х	14.07 0.03	11.88 0.07		246	76																							
	Heat Gain People	^	0.03	239		240	70																							
	Appliances Loads	1 =.25 p	ercent	3867																										
Level 1 HL Total	Duct and Pipe loss 13,736	T	otal HL for p	10%		13736																								
Level 1 HG Total			HG per ro				1484																						l L	
	Level 2					KIT			LIV		м	UD		FOY			PWD			DIN										
Ru	ın ft. exposed wall A				46			28 /			19 A	00	35			9 /			14 A	Dii		Α.	Α		Α		Α		А	
Ru	in ft. exposed wall B					В			3		В			В			В		. В			3	В		В		В		В	
	Ceiling height Floor area				10.0 264	Area		10.0 188 /	Area		12.0 103 Area		19.0 127	Area		10.0	Area		10.0 202 Ar	ea	10.0	Area	10.0 Area		10.0 Area		10.0 Area		10.0 A	·ea
	Exposed Ceilings A					A		.00 /			Α		127				A		Α	ou.		A	A		A		A		A	ou .
	Exposed Ceilings B					В			3		В			В			В		В			3	В		В		В		В	
	Exposed Floors Gross Exp Wall A				460	Fir		280	Flr		Fir 228		665	Flr		90	Flr		Fli 140	r		Flr	Flr		Flr		Flr		FI	r
	Gross Exp Wall B				400			200					000			30			140											
	Components			Gain			Gain			Gain	Los	Gair		Loss	Gain	ļ	Loss G	ain	Lo	ss Gair	<u> </u>	oss Gair	n Loss	Gain	Loss	Gain	Los	s Gain	Lo	oss Gain
	North Shaded East/West	3.55 3.55	22.93 22.93	10.91 27.35	47 53	1078 1215			642 321	306 383			69	1582	1887															
	East/West South	3.55	22.93	20.89		1215	1450	14	321	363			20			10	229	209	36	825 7	752									
	Existing Windows	1.99	40.90	22.15																										
	Skylight Doors	2.03 4.00	40.10 20.35	88.23 2.75							21	127	58 20	407	55															
	Net exposed walls A	17.03	4.78	0.65		1721	233	238	1138				34 556			80	382	52	104	497	67									
	Net exposed walls B	8.50	9.58	1.29																										
	Exposed Ceilings A Exposed Ceilings B	59.22 22.86	1.37 3.56	0.64 1.66									127	175	81															
	Exposed Floors	29.80	2.73	0.17																										
Foundation Con	nductive Heatloss			х																										
Total Conductive	Heat Loss					4014	2405		2101	842	1-	117	04	5280	2801		612	264		1323	319									
Air Leakage	Heat Gain Heat Loss/Gain		0.2594	0.0332		1041	2195 73		545	28		168	91	1370			159	261 9			27									
	Case 1		0.02	0.07																										
Ventilation	Case 2		14.07	11.88		400	464		70	00		40	44	400	000		04	40		40	60									
1	Case 3	X	0.03	0.07		139	161		73	62		49	14	183	206		21	19		46	60									
	Heat Gain Peonle		II.	239								- 1	- 1					1	1	- 1		1		1	1					
	Heat Gain People Appliances Loads	1 =.25 p	ercent	239 3867			1450	1.5		1450									0.5	4	183									
Lauriciu Z	Appliances Loads Duct and Pipe loss			3867 10%		F40.	1450	1.5	0710	1450		200		600-			700				183									
Level 2 HL Total	Appliances Loads Duct and Pipe loss 19,081	To	otal HL for p	3867 10% per room	1.5	5194			2718		1:	333	275	6832			792			1711										
Level 2 HL Total Level 2 HG Total	Appliances Loads Duct and Pipe loss 19,081	To		3867 10% per room	1.5	5194	1450 5043			3097		2	275		4029			375		1711	307								SB-12 Pa	

 $Ireview\ and\ take\ responsibility\ for\ the\ design\ work\ and\ am\ qualified\ in\ the\ appropriate\ category\ as\ an\ "other\ designer"\ under$

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

Mane Alex

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 e-mail dave@gtadesigns.ca

		Dellater	D		!t		D-4			M 40	0040								14/41-	D-1-	٠,					00 00	40.0				D 5
		Builder:	Ва	yview Welli	ington	_	Date:			March 12, Barossa				۱ -	_				Weath	er Data		Bradford		44	-9.4 8	86 22	48.2		Proj	ect#	Page 5 PJ-00204
2012 OBC		Project:	Gı	reen Valley	East		Model:			S38-1	6			-	5	ystem	1		Heat I	Loss ^T	81.4 deg.	F	Ht ga	in ^T	11 (deg. F	GTA:	2386	Lay	out #	JB-04487
	Level 3				MAS	т		ENS		BEC	2		BATH	ı		WIC			BED 3		LA	UN		BED 4							
	n ft. exposed wall A n ft. exposed wall B				46 A B		15			10 A B		6 /	A B		10 A	A B		20 /			11 A B		13	A B		A B		A B		A B	
Kui	Ceiling height				9.0		8.0	Ь		3.0		8.0	ь		8.0	Ь		11.0	ь		8.0		8.0	_		8.0		8.0		8.0	
	Floor area				309 Area 309 A		120 . 120 .			71 Area 71 A		100 / 100 /			23 A			125 / 125 /			121 Area	1	135 135	Area		Area A		Area		Are A	a
	Exposed Ceilings A Exposed Ceilings B				309 A B			В	1	В			В		Е	В			В		121 A B			В		В		A B		В	
	Exposed Floors				Flr 414			Flr		43 Flr		71 I 48	Fir		23 F 80	Flr		125 F	Flr		Flr			Flr		Flr		Fir		Flr	
	Gross Exp Wall A Gross Exp Wall B				414		120			80		48			80			220			88		104								
	Components North Shaded	R-Values 3.55			Loss	Gain	1 [Loss	Gain	Loss	Gain 175		Loss 161	Gain 76	L	Loss	Gain	12	Loss 275	Gain 131	Los	Gain	_	Loss	Gain	Loss	Gain	Loss	Gain	Los	s Gain
	East/West	3.55	22.93	27.35	32 73	4 875	13	298	356	16 36	173		101	76	4	92	109	40	917												
	South Existing Windows	3.55 1.99	22.93 40.90	20.89																	8 -	183 16	7 16	367	334						
	Skylight	2.03		88.23																											
N.	Doors	4.00	20.35	2.75	202 402	247	107	E44	60	64 20	NG 44	44	106	26	76	262	40	160	903	100	90		52 88	424	E7						
N	let exposed walls A let exposed walls B	17.03 8.50	4.78 9.58	0.65 1.29	382 182		107	511		64 30			196		76	363	49	168	803	109		382 5			57						
	Exposed Ceilings A	59.22 22.86	1.37 3.56	0.64 1.66	309 42	198	120	165	77 1	71 23	110	100	137	64	23	32	15	125	172	80	121	166 7	8 135	186	87						
	Exposed Ceilings B Exposed Floors	29.80	2.73	0.17						43 11	7 7	71	194	12	23	63	4	125	341	21											
Foundation Cond					298			974		102	· E		688			549			2509			732		973							
Total Conductive	Heat Loss Heat Gain				290	1320			502		333	3	000	179			177			1435		29	16		478						
Air Leakage	Heat Loss/Gain Case 1		0.2444	0.0332	72	9 44		238	17	25	51 11		168	6		134	6		613	48		179 1	0	238	16						
Ventilation	Case 1		14.07	11.88																											
	Case 3 Heat Gain People	х	0.03	0.07 239	10	3 97 478		34	37	3	239		24	13		19	13		87	105 239		25 2	22	34	35 239						
	Appliances Loads	1 =.25 p	percent	3867	2	4/0					238							- 1		239	0.5	48	3		239						
Level 3 HL Total	Duct and Pipe loss 13,940	т.	otal HL for	10%	381	7		1246		1 12		1	86 965		1	68 771	18	1	312 3521	167		936		1245							
Level 3 HG Total			I HG per ro		361	2521		1240	722	143	864	ı	900	281		771	278		3321	2592	•	105	i5	1245	998						
					·		_								_			_													
Rur	Level 4 n ft. exposed wall A				Α			A		Α			A		,	A			A		Α			Α		Α		Α		Α	
	n ft. exposed wall B				В			В		В			В		E	В		E	В		В			В		В		В		В	
	Ceiling height Floor area				Area			Area		Area			Area		,	Area		,	Area		Area	1		Area		Area		Area		Are	a
	Exposed Ceilings A				Α			A		Α			Α		-	A			A		Α			Α		Α		Α		Α	
E	Exposed Ceilings B Exposed Floors				B Flr			B Flr		B Flr			B Flr			B Flr			B Flr		B Flr			B Flr		B Flr		B Fir		B Fir	
	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	Los	s Gain		Loss	Gain	Loss	Gain	Loss	Gain	Los	s Gain
	North Shaded	3.55	22.93	10.91																											
	East/West South	3.55 3.55	22.93 22.93	27.35 20.89																											
	Existing Windows	1.99	40.90	22.15																											
	Skylight Doors	2.03 4.00	40.10 20.35	88.23 2.75																											
	let exposed walls A	17.03	4.78	0.65																											
	let exposed walls B Exposed Ceilings A	8.50 59.22	9.58 1.37	1.29 0.64																											
	Exposed Ceilings B	22.86	3.56	1.66																											
Foundation Cond	Exposed Floors ductive Heatloss	29.80	2.73	0.17																											
Total Conductive	Heat Loss																														
Air Leakage	Heat Gain Heat Loss/Gain		0.0000	0.0332																											
	Case 1		0.00	0.07																											
Ventilation	Case 2	x	14.07 0.03	11.88 0.07																											
	Heat Gain People			239																											
	Appliances Loads Duct and Pipe loss	1 =.25 p	percent	3867 10%																											
Level 4 HL Total	0	To	otal HL for	per room																											
Level 4 HG Total	0	Tota	I HG per ro	om x 1.3			J L			L		J L			L														\perp		

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:

Mane Alexa

David DaCosta

SB-12 Package
Package A1



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

Project # Layout #

Page 6 PJ-00204 JB-04487

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

Division C subsection 3.2.5. of the Building Code.

System Design Option Exhaust only / forced air system

HRV WITH DUCTING / forced air system

Part 6 design

HRV simplified connection to forced air system

HRV full ducting/not coupled to forced air system

1 2

3 Х

4

David DaCosta

Package: Project:	Package A1 Bradford	Model:	S38-16	
-	RESIDENTIAL MECHANICAL For systems serving one dwelling unit & col			
. , ,,	Location of Installation	Total Ve	ntilation Capacity 9.32.3.3	(1)
Lot #	Plan #	Bsmt & Master Bdrm	2 @ 21.2 cfm	42.4 cfm
Township	Bradford	Other Bedrooms Bathrooms & Kitchen	3 @ 10.6 cfm 4 @ 10.6 cfm	
Roll #	Permit #	Other rooms	4 @ 10.6 cfm Total	42.4 cfm 159
Address				
		Principal \	Ventilation Capacity 9.32.3	.4(1)
	Builder			
Name	Bayview Wellington	Master bedroom Other bedrooms	1 @ 31.8 cfm 3 @ 15.9 cfm	47.7 cfm
Address			Total	79.5
City		Prince	inal Exhaust Ean Canacity	
Tel	Fax	Make	ipal Exhaust Fan Capacity Model	Location
		LifeBreath	RNC155	Base
	Installing Contractor		-	_ •
Name		132 cfm		Sones or Equiv.
Address			eat Recovery Ventilator	
O:h.		Make	LifeBreath RNC155	
City		Model1	132 cfm high	80 cfm low
Tel	Fax	Sensible efficiency @ -	25 deg C	71%
		Sensible efficiency @ (75%
	Combustion Appliances 0.22.2.4(4)		nce HRV/ERV to within 10 p	
a) x	Combustion Appliances 9.32.3.1(1) Direct vent (sealed combustion) only	Supple	mental Ventilation Capacit	у
b) X	Positive venting induced draft (except fireplaces)	Total ventilation capaci	ity	159.0
c)	Natural draft, B-vent or induced draft fireplaces	Less principal exhaust	capacity	79.5
d)	Solid fuel (including fireplaces)	REQUIRED supplement	ntal vent. Capacity	79.5 cfm
e)	No combustion Appliances			
		Sun	plemental Fans 9.32.3.5.	
	Heating System	Location	cfm Model	Sones
х	Forced air	Ens	50 XB50	0.3
	Non forced air	Bath	50 XB50	0.3
	Electric space heat (if over 10% of heat load)			
	House Type 9.32.3.1(2)			
l x	Type a) or b) appliances only, no solid fuel	all fans HVI listed	Make Broan	or Equiv.
II .	Type I except with solid fuel (including fireplace)			•
III	Any type c) appliance		Designer Certification	
IV Other	Type I or II either electric space heat Type I, II or IV no forced air	I hereby certify that this in accordance with the	s ventilation system has beer Ontario Building Code.	n designed
	· ·	1	3	

ı		Designer	Sertification	
	I hereby certify the in accordance w		n system has been uilding Code.	designed
İ	Name	David D	aCosta	
	Signature	Have	16CH 0	
	HRAI#	5190	BCIN#	32964
	Date	March 1	2, 2018	

♦GTA\DESIGNS

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00204 Layout # JB-04487

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 us	e by Princi	pal Author	ity					
Application No:						rtification Nu	mber				
A. Project Information											
Building number, street name			Baross	a 16			Unit n	umbe	er	Lot/Con	
			S38-1	16							
Municipality Bradford			Postal co	ode	Reg. Plan	number / oth	her des	cripti	ion	1	
Bradiora											
B. Prescriptive Compliance [indicate]	ate the bu	ilding cod	e complia	ance packa	ige being e	employed in	the ho	use	design]		
SB-12 Prescriptive (input design pa	ockada).			Pack	age A1				Table:	3.1.1.2.	Δ
1 (1 3 1	ionago).			1 401	ago / (1				Table.	0.1.1.2./	
C. Project Design Conditions											
Climatic Zone (SB-1):				fficiency			SI	ace	Heating F	uel Sourc	
☑ Zone 1 (< 5000 degree days)		_	2% AFUE			Gas			Propane		Solid Fuel
☐ Zone 2 (≥ 5000 degree days)			4% < 92			Oil			Electric		Earth Energy
Ratio of Windows, Skylights & Glas	ss (W, S	& G) to \	Wall Are	ea				er B	Building Cha		
Area of Walls = <u>332.88</u> m ² or <u>3583.2</u>	ft²					Post&Beam			ICF Above	Grade	☐ ICF Basement
		W,S &	G % =	<u>13%</u>		-on-ground			Walkout Ba		
						onditioning			Combo Unit		
Area of W, S & G = $\frac{42.177}{}$ m ² or $\frac{454.0}{}$	ft²	Utilize V		☐ Yes		ourced Hea					
		Avera		☑ No		ind Source I		ump	(GSHP)		
D. Building Specifications [provide	e values a	nd ratings	of the e	nergy effici	ency comp	onents prop	posed]				
Energy Efficiency Substitutions											
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))											
Combined space heating and domestic				.1.2(7) / 3.	1.1.3.(7))						
☐ Airtightness substitution(s)		Table 3.1	I.1.4.B	Required:					Permitted S		
Airtightness test required		Table 3.1	1.1.4.C	Required:					Permitted S		
(Refer to Design Guide Attached)				Required:					Permitted S	Substitution	:
Building Component		mum RS Maximun				Buile	ding (Com	ponent		Efficiency Ratings
Thermal Insulation	Non	ninal	Effe	ective	Windov	vs & Doo	rs Pro	vide	U-Value ⁽¹⁾ o	r ER rating	
Ceiling with Attic Space	6	0			Window	s/Sliding G	lass D	oor:	S		1.6
Ceiling without Attic Space	3	31			Skylights	6					2.8
Exposed Floor	3	31			Mechar	nicals					
Walls Above Grade	22				Heating	Equip.(AFL	JE)				96%
Basement Walls		20.0ci			HRV Eff	iciency (SR	RE% at	0°C)		75%
Slab (all >600mm below grade)	1	x			DHW H	eater (EF)					0.80
Slab (edge only ≤600mm below grade)	1	0			DWHR (CSA B55.1	(min. 4	2% е	efficiency))		#Showers 2
Slab (all ≤600mm below grade, or heated)	1	0			Combine	ed Heating	Syste	m			
(1) U value to be provided in either W/(m 2 ·K) or Bi	tu/(h·ft·F) b	out not bo	:h.								
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso	on(s) prov		mation her			that	t design meet	s building	code]
Name				BCIN		Signature	:		. 1	. 1 1	,
David DaCosta				329	964			Þ	Mane	14C=	₹ 7



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Page PJ-00204 Project # Layout # JB-04487

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

Project: S38-16 Air Leakage Calculations **Building Air Leakage Heat Loss Building Air Leakage Heat Gain** В LRairh Vb **HLleak** В LRairh Vb HG^T **HG Leak** 0.018 0.319 27268 81.4 12751 0.018 0.079 27268 11 427 Levels Air Leakage Heat Loss/Gain Multiplier Table (Section 11) 1 2 3 4 Level Building Level Conductive Air Leakage Heat Loss Level (LF) (LF) (LF) (LF) Factor (LF) Air **Heat Loss** Multiplier 0.8961 1.0 0.6 0.5 0.4 Level 1 0.5 7114 Level 2 0.2594 14745 0.3 0.3 0.4 0.3 12751 0.2444 Level 3 10435 0.2 0 0.0000 Level 4 0 0.1 Air Leakage Heat Gain Levels this Dwelling **HG LEAK** 427 0.0332 3 **BUILDING CONDUCTIVE HEAT GAIN** 12861 **Ventilation Calculations Ventilation Heat Loss Ventilation Heat Gain** /ent /ent Ventilation Heat Loss Ventilation Heat Gain PVC (1-E) HRV **HLbvent** PVC HG^T **HGbvent** 1118 944 1.08 79.5 81.4 0.16 1.1 79.5 11 Case 1 Case 1 Ventilation Heat Loss (Exhaust only Systems) Ventilation Heat Gain (Exhaust Only Systems) Case 1 - Exhaust Only Case 1 - Exhaust Only Multiplier Case Level LF HLbvent LVL Cond. HL Multiplier **HGbvent** 944 0.07 Level 1 Building 12861 7114 0.5 0.08 Level 2 0.3 14745 0.02 1118 10435 Level 3 0.2 0.02 Level 4 0 0 0.00 Case 2 Case 2 **Ventilation Heat Loss (Direct Ducted Systems) Ventilation Heat Gain (Direct Ducted Systems)** Case Case Multiplier Multiplier HL^T (1-E) HRV HG^T С 14.07 11.88 1.08 1.08 0.16 Case 3 Case 3 Ventilation Heat Loss (Forced Air Systems) Ventilation Heat Gain (Forced Air Systems) **HLbvent** Multiplier Vent Heat Gain Multiplier **HGbvent** HG*1.3 **Total Ventilation Load** 1118 0.03 944 0.07 944 Foundation Conductive Heatloss Level 1 6022 1765 Watts Btu/h **Foundation Conductive Heatloss Level 2** Watts Btu/h

Envelope Air Leakage Calculator

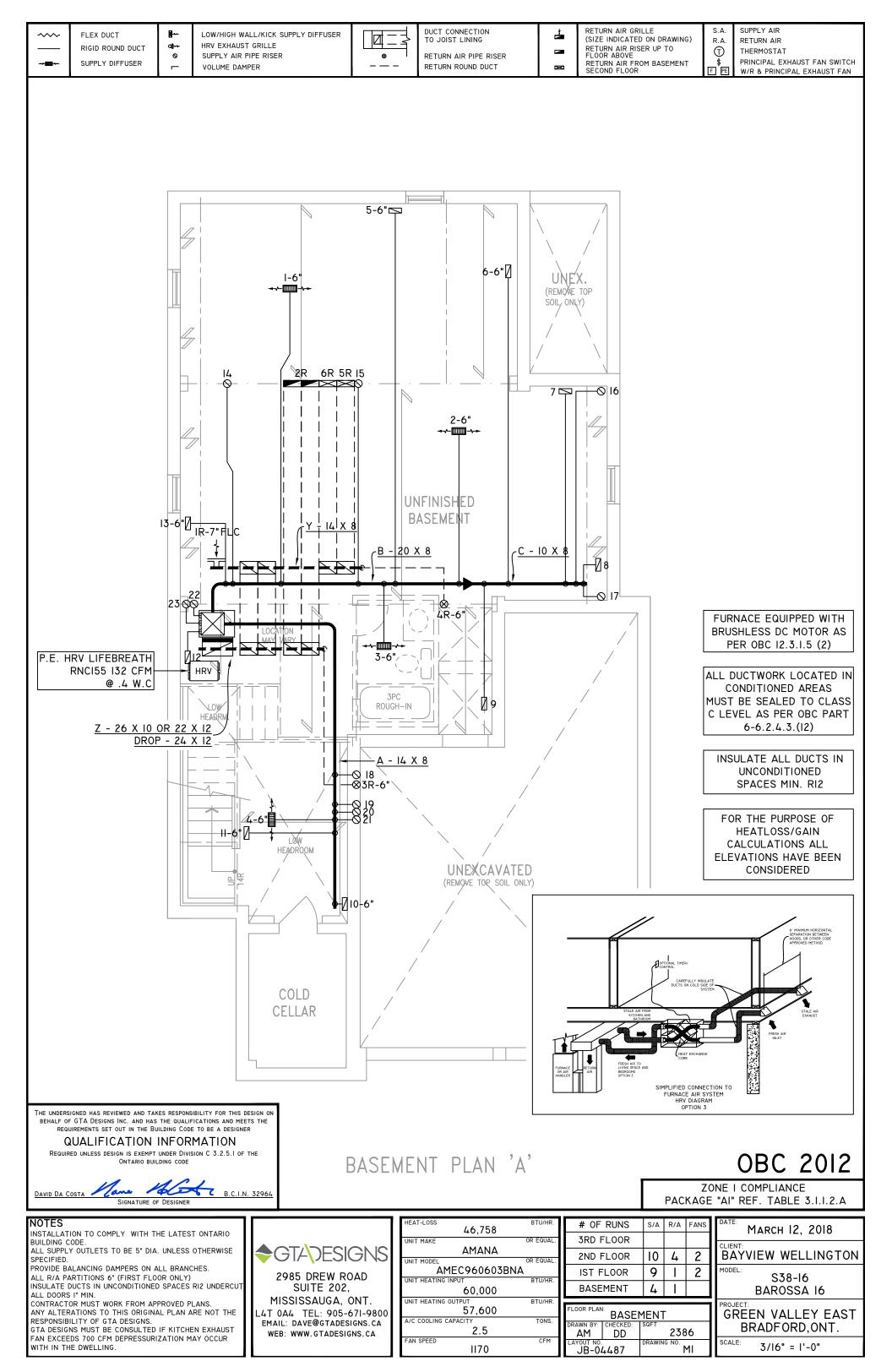
Supplemental tool for CAN/CSA-F280

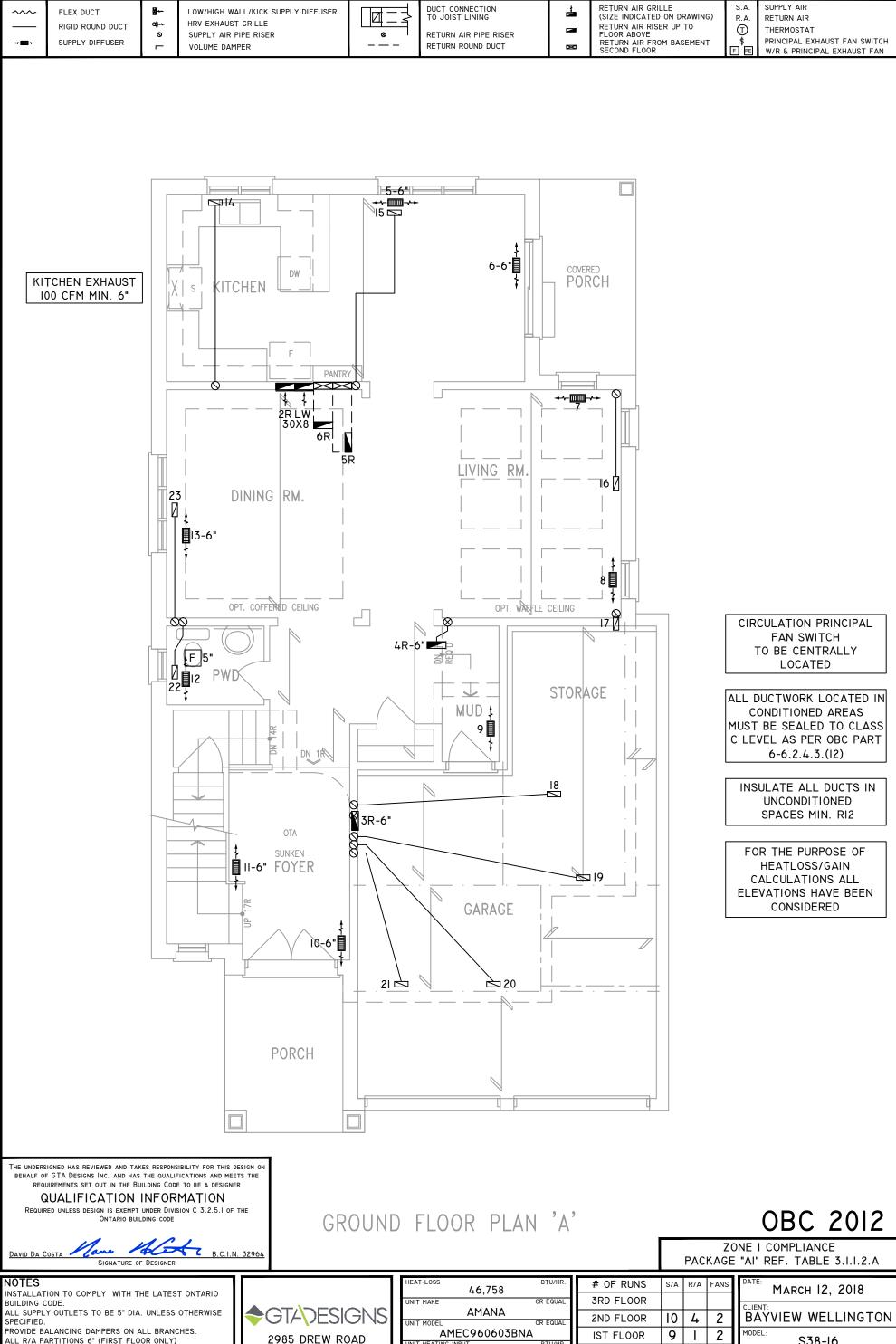
Weather Stat	ion Description
Province:	Ontario
Region:	Bradford ▼
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Local S	hielding
Building Site:	Suburban, forest ▼
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	6.63
Building Co	onfiguration
Type:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m ³):	772.23
Air Leakage	e/Ventilation
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

Weat	her Sta	tion Description							
Province:		Ontario							
Region:		Bradford ▼							
	Site D	escription							
Soil Conductivity:		High conductivity: moist soil ▼							
Water Table:		Normal (7-10 m, 23-33 Ft)							
Fou	ındatio	n Dimensions							
Floor Length (m):	17.98								
Floor Width (m):	5.03								
Exposed Perimeter (m):	46.02								
Wall Height (m):	2.74								
Depth Below Grade (m):	1.60	Insulation Configuration							
Window Area (m²):	2.69								
Door Area (m²):	1.95								
	Radi	ant Slab							
Heated Fraction of the Slab:	0								
Fluid Temperature (°C):	33								
	Desig	n Months							
Heating Month	1								
	Foundation Loads								
Heating Load (Watts):		1765							





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.

L4T 0A

LYOU DILLW HOAD	ı
SUITE 202,	
MISSISSAUGA, ONT.	
L4T 0A4 TEL: 905-67I-9800	
EMAIL: DAVE@GTADESIGNS.CA	
WEB: WWW.GTADESIGNS.CA	
	ш

HEAT-LOSS 46,758	BTU/HR.
,	00 501141
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	D
3RD FLOOR				CI
2ND FLOOR	10	4	2	Ë
IST FLOOR	9	1	2	М
BASEMENT	4	-		
FLOOR PLAN:				PF
GROUND	FLO	OK		ш,

AM DD

JB-04487

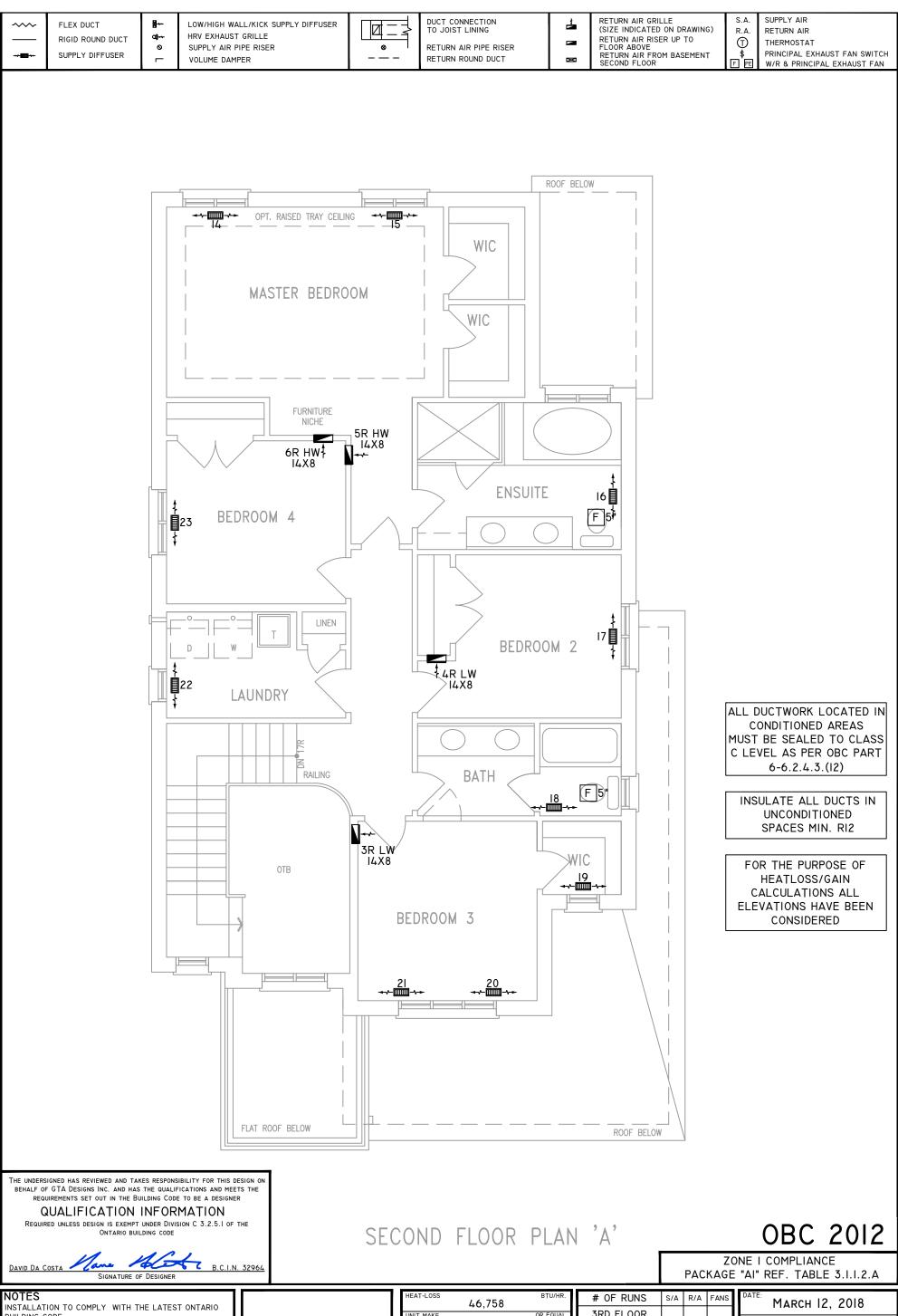
2386

M2

DRAWING NO

MARCH 12, 2018
BAYVIEW WELLINGTON
S38-16 BAROSSA 16
PROJECT:

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



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 UNDERCUTALL 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 SU MISSIS L4T 0A4 1

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

HEAT-LOSS	BTU/HR.
46,758	
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	

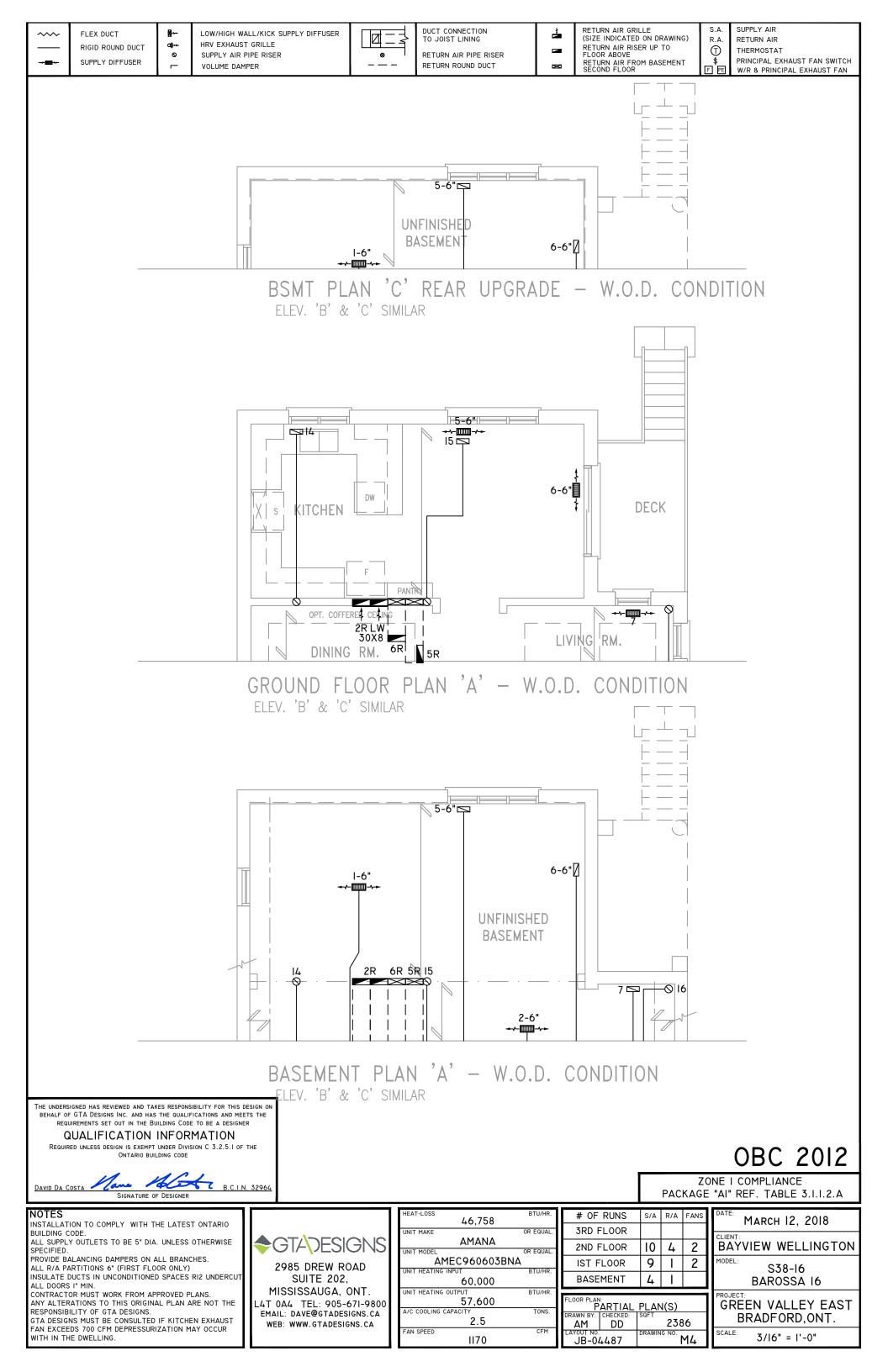
	1710117102			· '
# OF RUNS	S/A	R/A	FANS	DA
3RD FLOOR				CI
2ND FLOOR	10	4	2	Ĕ
IST FLOOR	9	١	2	М
BASEMENT	4	١		
EL COR BLAN				PF
FLOOR PLAN: SECOND	FLO	OR		(
DRAWN BY: CHECKED: DD	SQFT	238	36	
LAYOUT NO.	DRAWIN	IG NO.	47	S

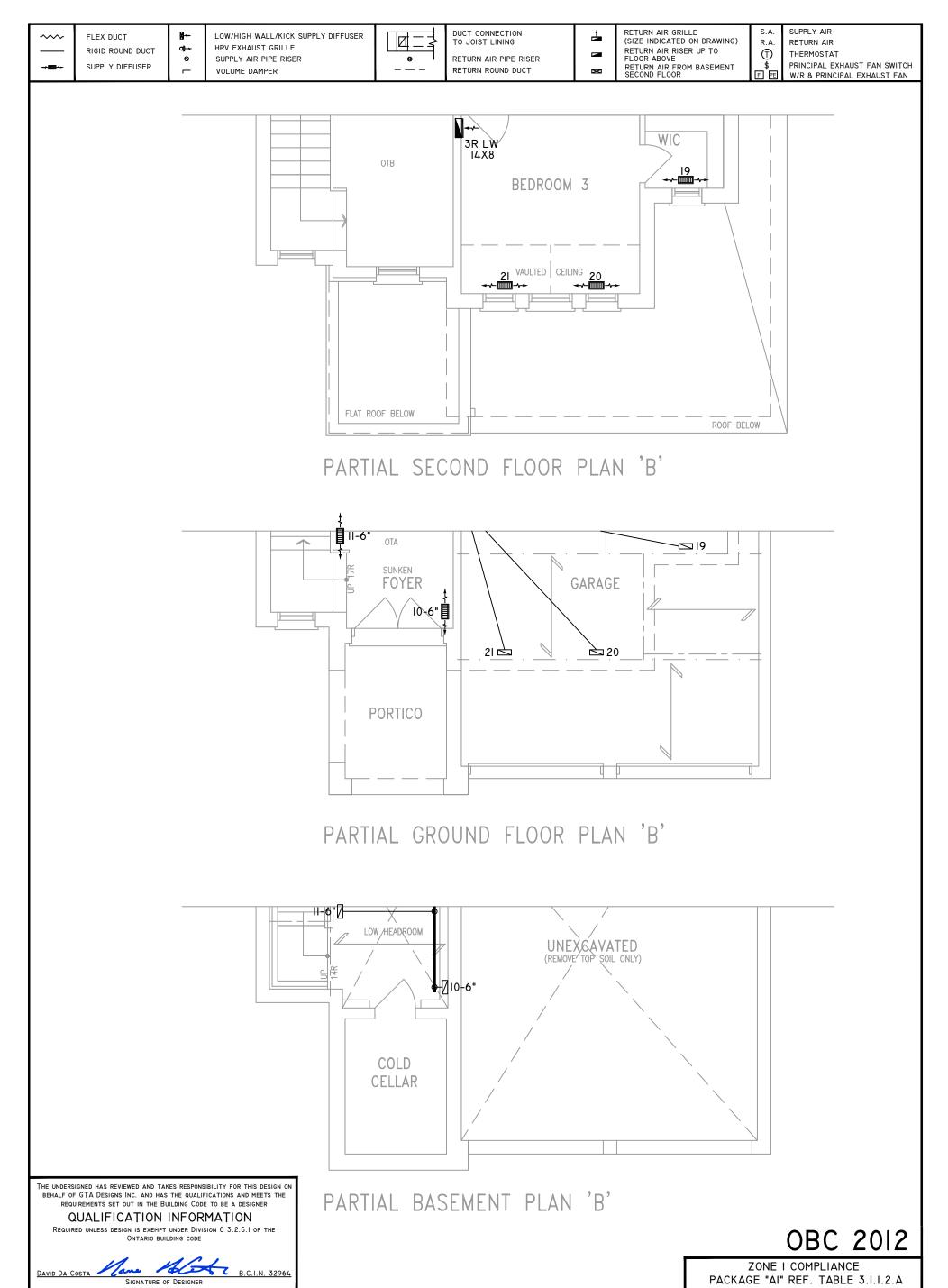
JB-04487

M3

DATE:	MARCI	н 12, 2	2018
LIENT: BAY	VIEW	WELL	INGTON
10DEL:	_	38-16 OSSA	16
ROJEC	T:		

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





NOTES

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

SPECIFIED.

PROVIDE BALANCING DAMPERS ON ALL BRANCHES.
ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY)

INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT ALL DOORS I" MIN. CONTRACTOR MUST WORK FROM APPROVED PLANS.

ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE RESPONSIBILITY OF GTA DESIGNS.

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.

MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 email: dave@gtadesigns.ca web: www.gtadesigns.ca

1.4 750	5 , 6, , , , , ,
46,758	
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	

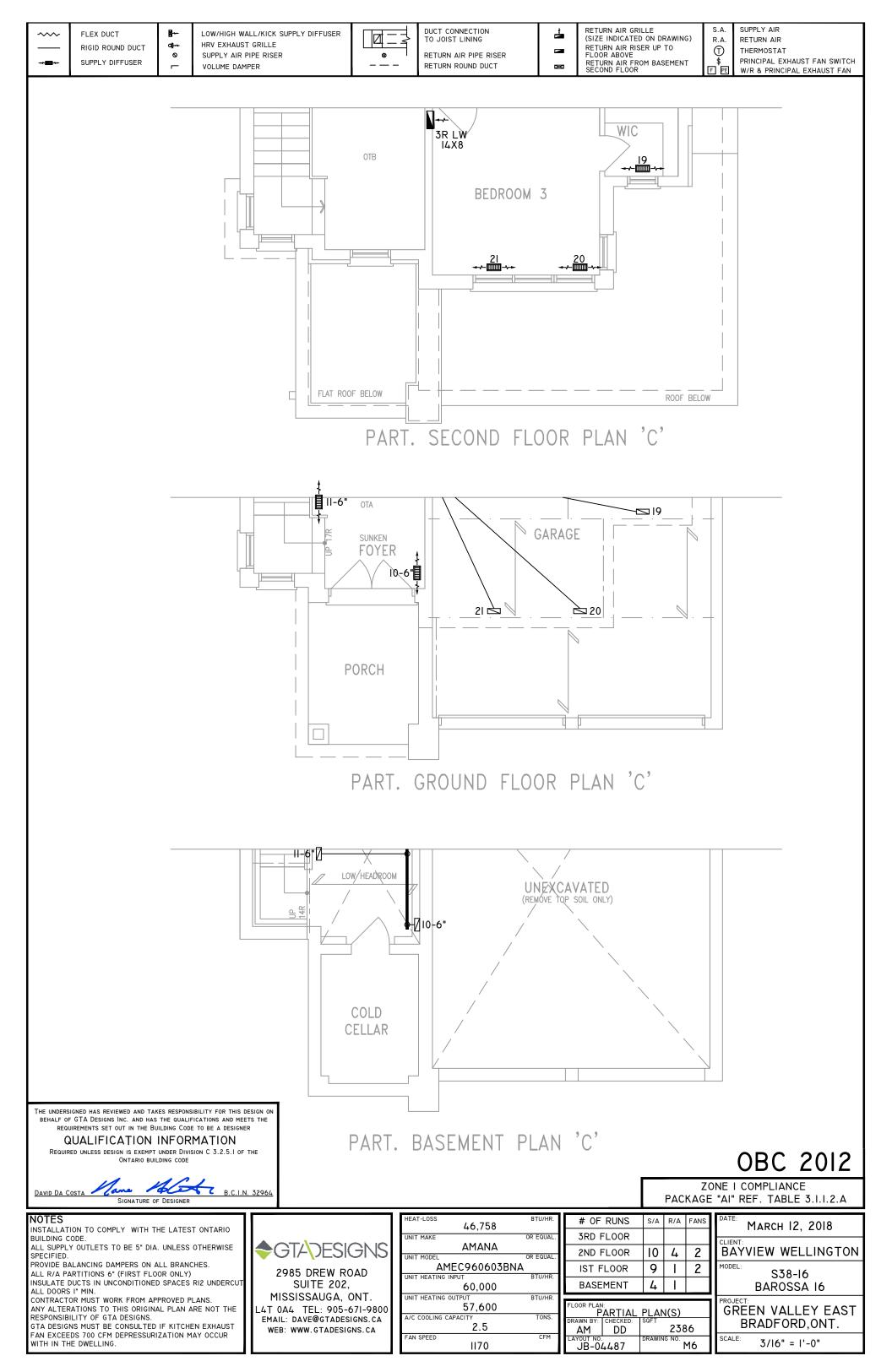
UNS	S/A	R/A	FANS
OOR			
OOR	10	4	2
OOR	9	1	2
ENT	4	١	
FLOOR PLAN: PARTIAL PLAN(S)			
DD D	2386		
	HECKED:	00R	OOR

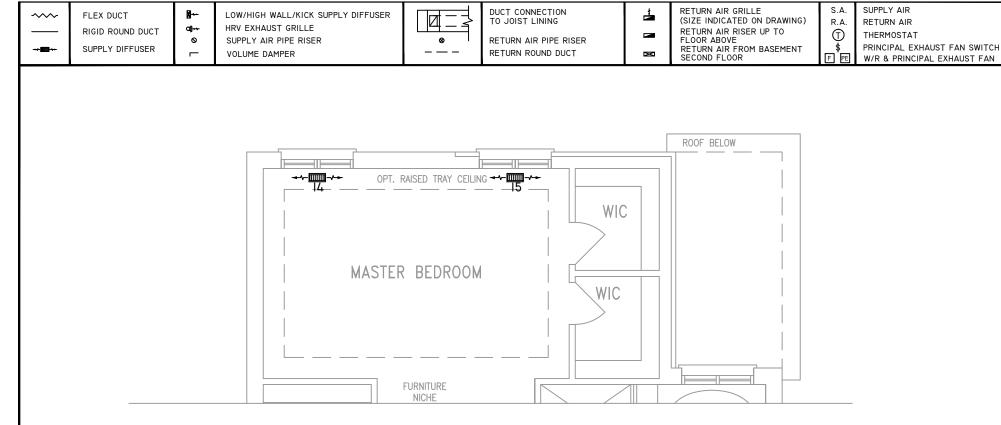
уо<u>ит но.</u> JB-04487 DRAWING NO. M5

MARCH 12, 2018
BAYVIEW WELLINGTON
S38-16 BAROSSA 16
PROJECT:

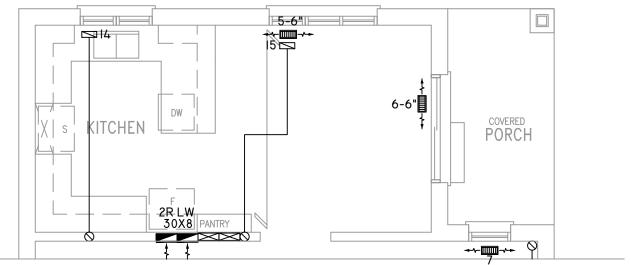
GREEN VALLEY EAST
BRADFORD,ONT.

SCALE: 3/16" = 1'-0"

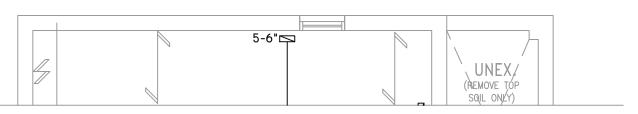




PARTIAL SECOND FLOOR PLAN ELEVATION 'C' REAR UPGRADE



PARTIAL GROUND FLOOR PLAN ELEVATION 'C' REAR UPGRADE



PARTIAL BASEMENT PLAN ELEVATION REAR UPGRADE



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.

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

WEB: WWW.GTADESIGNS.CA

HEAT-LUSS	BIU/HR.
46,758	
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	I
3RD FLOOR				╟
2ND FLOOR	10	4	2	
IST FLOOR	9	1	2	
BASEMENT	4	-		
				it
FLOOR PLAN: PARTIAL	ΡΙ ΔΝ	J(S)		П
	COET	1(0)		Н

AM DD

JB-04487

2386

DRAWING NO. M7

MARCH 12, 2018
CLIENT: BAYVIEW WELLINGTON
S38-I6 BAROSSA I6
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 **aj**↔ SUPPLY AIR PIPE RISER VOLUME DAMPER



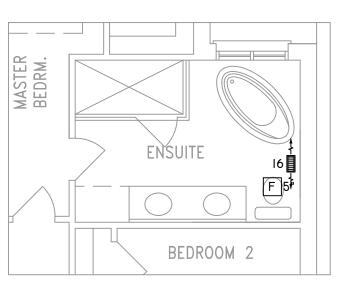
DUCT CONNECTION TO JOIST LINING RETURN AIR PIPE RISER RETURN ROUND DUCT

j

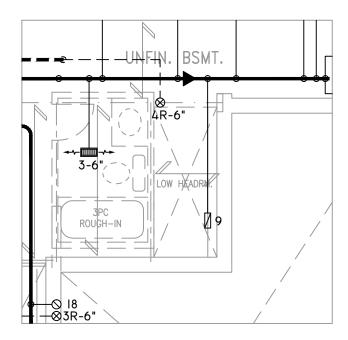
RETURN AIR GRILLE (SIZE INDICATED ON DRAWING) RETURN AIR RISER UP TO FLOOR ABOVE RETURN AIR FROM BASEMENT SECOND FLOOR

R.A. 1

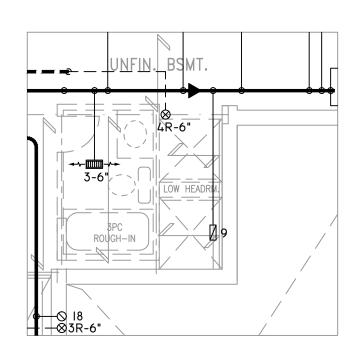
SUPPLY AIR RETURN AIR THERMOSTAT PRINCIPAL EXHAUST FAN SWITCH



PART. OPT. SECOND FLOOR W/ ALT. ENSUITE LAYOUT



PART. SUNKEN LANDING TO GARAGE FOR -1R CONDITION



PART. SUNKEN LANDING TO GARAGE FOR -2R TO -3RCONDITION

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.I of the ONTARIO BUILDING CODE

OBC 2012

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

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

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HEAT-LOSS	BTU/HR.
46,758	
,	
UNIT MAKE	OR EQUAL.
AMANA	
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AMEC960603BNA	١
UNIT HEATING INPUT	BTU/HR.
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57,600	
A/C COOLING CAPACITY	TONS.
2.5	
FAN SPEED	CFM
1170	

	TACKAGE		
S/A	R/A	FANS	Г
			H
10	4	2	
9	1	2	
4	1		
. PLAN	۱(S)		
SQFT	238	36	
	10 9 4	S/A R/A	S/A R/A FANS

JB-04487

DRAWING NO. M8

BAYVIEW WELLINGTON
S38-16 BAROSSA 16
GREEN VALLEY EAST BRADFORD,ONT.

3/16" = 1'-0"

MARCH 12, 2018