

	TRINAR	HALL	HOME	S					LOT 30									DATE:	Dec-20				WINTE	R NAT	URAL	AIR CI	HANGE	RATE	. 0.234	1	HEA	AI LOS	SS AT	-r. 0		CSA-F	
BUILDER:									GLENV					GFA:	3314			LO#											0.065			AT GAI				ENERGY	
ROOM USE				MBR			ENS			WIC			BED-2			BED-3			BED-4			ENS-2		Ī	BED-	5	T	S-ENS	5	T	ENS	S-3	Т		 1		
EXP. WALL				42			22			8	1		14			16			30			11			11		1	6			17	7	- 1		1		
CLG. HT.				9			9			9			9	l		9			9			9			9			9			9						
	FACTO	RS																																			
GRS.WALL AREA				378			198			72			126			144			270			99			99			54		1	15	:2	- 1				
GLAZING	1000	OAIN		LOSS	GAIN			GAIN	١,		AIN			GAIN	1		GAIN			GAIN			GAIN			S GAIN			S GAIN			SS GAI	IN		1		
NORTH	20.4	15.1	0	0		0	0	0	0 '		0	17	346	257	0	0	0	0	0	0	9	183	136	0	0	0	0	0	0	0	0		- 1				
	ł		-		0	0		0	0	0	- 1	0	0	201							0	0		0	0	0	0	0					- 1				
EAST	20.4	40.7	0	0	0	1 -	0	-	0	· ·	0	0	0	- 1	33		1344	34 0	692	1384	0	0	0	1 -	346	-	1 -	-	0 217	17	34 0						
SOUTH	20.4	24.1	0	0	0	0	0	0	1 -	0	0	-	-	0	0	0	-		0	0	-	-	0	17		409	1	183		0	-		1				
WEST	20.4	40.7	34	692	1384	15	305	611	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SKYLT.	34.2	99.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
DOORS	27.0	3.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
NET EXPOSED WALL	3.9	0.5	344	1327	179	183	706	95	72		38	109	421	57	111	428	58	236	910	123	90	347	47	82	316		45	174	23	136							
NET EXPOSED BSMT WALL ABOVE GR	3.9	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		·				
EXPOSED CLG	1.4	0.6	372	512	207	123	169	69	115	158	64	229	315	128	215	296	120	275	378	153	68	94	38	230	316	128	73	100	41	72	99	9 40	0		1		
NO ATTIC EXPOSED CLG	2.9	1.2	0	0	0	0	0	0	0	0	0	0	0	0	20	59	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0				1		
EXPOSED FLOOR	2.7	0.4	0	0	0	0	0	0	0	0	0	0	0	0	235	642	87	0	0	0	68	186	25	0	0	0	0	0	0	35	96	6 13	3				
BASEMENT/CRAWL HEAT LOSS			ĺ	0		1	0			0			0	ŀ		0			0			0		1	0		1	0			0	)	1				
SLAB ON GRADE HEAT LOSS			1	0		1	0		1	0	- 1		0	l		0			0			0			0			0			0	)			1		
SUBTOTAL HT LOSS	1			2530		1	1180			436			1081			2096			1980			810		1	979		1	457			108	65	- 1		1		
SUB TOTAL HT GAIN					1771			775	1		102			442			1632			1661			246			580			281	1		81	16				
LEVEL FACTOR / MULTIPLIER	1		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25		0.20	0.25	:	0.20	0.25		0.20	0.2	25			1		
AIR CHANGE HEAT LOSS				634		1	296			109			271	ı		525			496		i	203			245			115			26	67			İ		
AIR CHANGE HEAT GAIN	l				105			46			6			26			97			99	Ì		15			34			17	ı		48	8		ł		
DUCT LOSS				0			0			0	- 1		0			262			0			101			0		1	0			13	33			į		
DUCT GAIN					0	1		0	}		0			0			258			0	i		26			0			0			86	6		Ì		
HEAT GAIN PEOPLE	240		2		480	0		0	١٠		0	1		240	1		240	1		240	0		0	1		240	0		0	0		0	. 1		ļ		
HEAT GAIN APPLIANCES/LIGHTS	~~~		_		613	"		0	ľ		١	•		613	•		613			613	*		0	Ι΄.		613			n	1		n			1		
TOTAL HT LOSS BTU/H				3165	010		1476	٠		545	١		1352	"		2884	0.0		2477	0.0		1114	٠		1224		1	572	•		146	65			1		
TOTAL HT GAIN x 1.3 BTU/H				5105	3860		1470	1067			140			1717			3692		4477	2200			373	l		1908	1	0.1	387		140	123	36		ł		
	L		L														0002	L		3396			3/3			1300	ــــــــــــــــــــــــــــــــــــــ		307								
ROOM USE			\			T	LV/DN						OFF	····			0002	\	PWD	3396	I	FOY	3/3				<del></del>			<del></del>					  T	BAS	
ROOM USE EXP. WALL							LV/DN 26			K/D/F						LAUN	0002		PWD 13	3396		FOY 19	3/3			1300	T			$\frac{\perp}{\Gamma}$						BAS 178	
EXP. WALL							26			K/D/F 77			OFF 10			LAUN 25	0002		13	3396		19	3/3			1300											
1	FACTO	RS								K/D/F			OFF			LAUN	-			3336			3/3			1500										178	
EXP. WALL CLG. HT.	FACTO						26 11			K/D/F 77 11			OFF 10 11			LAUN 25 12	0002		13 12	3396		19 12	3/3			1300			307							178	
EXP. WALL CLG. HT. GRS.WALL AREA							26 11 286	GAIN		K/D/F 77 11			OFF 10 11			LAUN 25 12			13 12 156			19 12 228				1300			307							178 9 1068	GAIN
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	Loss	GAIN					26 11 286 LOSS	GAIN		K/D/F 77 11 847 LOSS G	GAIN		OFF 10 11 110 LOSS	GAIN	•	LAUN 25 12 300 LOSS	GAIN		13 12 156 LOSS	GAIN		19 12 228 LOSS	GAIN			1300			307						3	178 9 1068 LOSS	GAIN
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH	LOSS 20.4	GAIN 15.1				0	26 11 286 LOSS 0	0	0	K/D/F 77 11 847 LOSS 0	GAIN 0	20	OFF 10 11 110 LOSS 407	GAIN 303	9	25 12 300 LOSS 183	GAIN 136	0	13 12 156 LOSS 0	GAIN 0	0	19 12 228 LOSS 0	GAIN 0			1300			307						3	178 9 1068 LOSS 61	45
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	20.4 20.4	GAIN 15.1 40.7				0	26 11 286 LOSS 0	0	0	K/D/F 77 11 847 LOSS 0 0	GAIN 0 0	20 0	OFF 10 11 110 LOSS 407 0	GAIN 303 0	0	LAUN 25 12 300 LOSS 183 0	GAIN 136 0	16	13 12 156 LOSS 0 326	GAIN 0 651	0	19 12 228 LOSS 0	GAIN 0 0			1300		7							3 0	178 9 1068 LOSS 61 0	45 0
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	20.4 20.4 20.4 20.4	940.7 40.7 24.1				0 26	26 11 286 LOSS 0 0 529	0 0 626	0 0 13	K/D/F 77 11 847 LOSS 0 0 0	GAIN 0 0 313	20 0 0	OFF 10 11 110 LOSS 407 0	GAIN 303 0	0	25 12 300 LOSS 183 0	GAIN 136 0	16 0	13 12 156 LOSS 0 326 0	GAIN 0	0	19 12 228 LOSS 0 0	GAIN 0 0			1300			Town of		illiı				6	178 9 1068 LOSS 61 0	45 0 144
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	20.4 20.4 20.4 20.4 20.4	15.1 40.7 24.1 40.7				0 26 0	26 11 286 LOSS 0 0 529 0	0 0 626 0	0 0 13 63	K/D/F 77 11 847 LOSS 0 0 0 265 1282 2	GAIN 0 0 313 2565	20 0 0	OFF 10 11 110 LOSS 407 0 0	GAIN 303 0 0	0	25 12 300 LOSS 183 0 0	GAIN 136 0 0	16 0 0	13 12 156 LOSS 0 326 0	GAIN 0 651 0	0 0	19 12 228 LOSS 0 0 0	GAIN 0 0 0			1300		E	Town of			mbu	ıry		6	178 9 1068 LOSS 61 0 122 61	45 0 144 122
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	20.4 20.4 20.4 20.4 20.4 34.2	15.1 40.7 24.1 40.7 99.9				0 26 0	26 11 286 LOSS 0 0 529 0	0 0 626 0	0 0 13 63	K/D/F 77 11 847 LOSS 0 0 0 265 1282 2	GAIN 0 0 313 2565 0	20 0 0 0	OFF 10 11 110 LOSS 407 0 0	GAIN 303 0 0	0 0 0	LAUN 25 12 300 LOSS 183 0 0	GAIN 136 0 0 0	16 0 0 0	13 12 156 LOSS 0 326 0	GAIN 0 651 0	0 0 0	19 12 228 LOSS 0 0 0	GAIN 0 0 0			1500	The same Out	E	Town of	Gwi		mbu	ıry		6 3 0	178 9 1068 LOSS 61 0 122 61	45 0 144 122 0
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	20.4 20.4 20.4 20.4 20.4 34.2 27.0	15.1 40.7 24.1 40.7 99.9 3.7				0 26 0 0	26 11 286 LOSS 0 0 529 0 0	0 0 626 0 0	0 0 13 63 0	K/D/F 77 11 847 LOSS 0 0 265 1282 2 0 811	GAIN 0 0 313 2565 0	20 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0	GAIN 303 0 0 0	0 0 0 0 0	25 12 300 LOSS 183 0 0 0 0	GAIN 136 0 0 0 0	16 0 0 0 0	13 12 156 LOSS 0 326 0 0	GAIN 0 651 0 0	0 0 0 0 40	19 12 228 LOSS 0 0 0 0	GAIN 0 0 0 0 0			1500	Our trees. On	E	Town of	Gwi		mbu	ıry		6 3 0 20	178 9 1068 LOSS 61 0 122 61 0 541	45 0 144 122 0 73
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.4 20.4 20.4 20.4 34.2 27.0 3.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5				0 26 0 0 0 260	26 11 286 LOSS 0 0 529 0 0 0	0 0 626 0 0 0	0 0 13 63 0 30 741	K/D/F 77 11 847 LOSS 0 0 0 265 1282 2 0 811 2859	GAIN 0 0 313 2565 0 110 386	20 0 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 347	GAIN 303 0 0 0 0 0	0 0 0 0 20 271	LAUN 25 12 300 LOSS 183 0 0 0 541 1045	GAIN 136 0 0 0 0 73 141	16 0 0 0 0 0	13 12 156 LOSS 0 326 0 0 0 0	GAIN 0 651 0 0 0	0 0 0 0 40 188	19 12 228 LOSS 0 0 0 0 0 1082 725	GAIN 0 0 0 0 0 146			Q T	These pla	lans hav	Town of Cast (	Gwi Standards B	Branch B	mbu BCIN #1648	ary		6 3 0 20 0	178 9 1068 LOSS 61 0 122 61 0 541	45 0 144 122 0 73 0
EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5				0 26 0 0 0 260	26 11 286 LOSS 0 0 529 0 0 0 1003 0	0 0 626 0 0 0 136	0 0 13 63 0 30 741	K/D/F 77 11 847 LOSS 0 0 0 265 1282 2 0 811 2859 0	GAIN 0 0 313 2565 0 110 386 0	20 0 0 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 347 0	GAIN 303 0 0 0 0 0 47	0 0 0 0 20 271 0	25 12 300 LOSS 183 0 0 0 541 1045 0	GAIN 136 0 0 0 0 73 141	16 0 0 0 0 140	13 12 156 LOSS 0 326 0 0 0 0 540	GAIN 0 651 0 0	0 0 0 0 40 188 0	19 12 228 LOSS 0 0 0 0 0 1082 725 0	GAIN 0 0 0 0 0 146 98			Ę T co	These placerrection	lans hav	Town of Cast (Building Si	Gwi Standards B	Branch B wed for ner cha	mbu BCIN #1648 or use wi	ary with the may be	e	6 3 0 20	178 9 1068 LOSS 61 0 122 61 0 541	45 0 144 122 0 73 0 278
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EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	GAIN 15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2				0 26 0 0 0 260 0	286 LOSS 0 0 529 0 0 1003 0 0	0 0 626 0 0 0 136 0	0 0 13 63 0 30 741 0	K/D/F 77 11 847 LOSS 0 0 265 1282 2 0 811 2859 0 0 29 0	GAIN 0 0 313 2565 0 110 386 0 0	20 0 0 0 0 0 0 90 0	OFF 10 11 110 LOSS 407 0 0 0 0 347 0 0 0	GAIN 303 0 0 0 0 0 47 0	0 0 0 0 20 271 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0	GAIN 136 0 0 0 73 141 0	16 0 0 0 0 140 0	13 12 156 LOSS 0 326 0 0 0 540 0 0	GAIN 0 651 0 0 0 73 0	0 0 0 0 40 188 0 0	19 12 228 LOSS 0 0 0 0 1082 725 0 0 0	GAIN 0 0 0 0 0 146 98 0			T come s s s s s s s s s s s s s s s s s s s	These placerection or the standard Zoning H Dutario upproved imes. I	lans havens as reithout vids Bran By-Lav Buildid docur	Building St	Standards B n review. No other approv. Il work -043, as ode, as must be permit	er cha val of must s amer e kept	mbu r use wi anges m the Bu comply nded, an	ary vith the may be uilding ly with and the These e at all	e g h e e II	6 3 0 20 0 534 0	178 9 1068 LOSS 61 0 122 61 0 541 0 2058 0	45 0 144 122 0 73 0 278 0
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STRUCTURAL HEAT LOSS: 50142 LOSS DUE TO VENTILATION LOAD BTU/H: 2097 TOTAL HEAT GAIN BTU/H: 30966 TONS: 2.58

Muhar Okambe.

TOTAL COMBINED HEAT LOSS BTU/H: 52238



		TRINAR GREENI							LOT 30 GLENWA				DATE:	Dec-20			GFA:	3314	LO#	88661				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	1131 50,142 22.56	Α	TOTAL H	LING CFM EAT GAIN RATE CFM	30,682		а	furi a/c coil vailable	pressure nace filter pressure pressure r s/a & r/a	0.6 0.05 0.2 0.35						(	SMEC9606 FAN		GOODMA 60	AN		AFUE = (BTU/H) = (BTU/H) =	60,000	
RUN COUNT	4th	3rd	2nd	1st	Bas													DLOW			DESI	GN CFM =		_
S/A R/A	0	0	13 5	8	4				essure s/a ress. loss	0.18 0.02	r/a	r/a grille pre	pressure	0.17 0.02				MEDIUM M HIGH				CFM @ .	6 " E.S.P.	
All S/A diffusers 4"x10" unle			e on layo	ut.					ssure s/a	0.16		usted pre		0.15			WEDTO	HIGH	1131	Т	EMPERAT	URE RISE	47	°F
All S/A runs 5"Ø unless note RUN#	ed othen	wise on la 2	yout. 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		04
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	ENS-2	BED-5	S-ENS	MBR	ENS-3	BED-3	LV/DN	K/D/F	K/D/F	OFF	LAUN	PWD	FOY	K/D/F	BAS	BAS	23 BAS	24 BAS
RM LOSS MBH.	1.58	1.48	0.55	1.35	1.44	1.24	1.11	1.22	0.57	1.58	1.47	1.44	2.14	2.44	2.44	1.05	2.47	1.21	2.52	2.44	4.29	4.29	4.29	4.29
CFM PER RUN HEAT RM GAIN MBH.	36 1.93	33 1.07	12 0.14	31 1.72	33 1.85	28 1.70	25 0.37	28 1.91	13 0.39	36 1.93	33 1.24	33 1.85	48 1.85	55 1.82	55 1.82	24 1.28	56 1.28	27 1.00	57 0.34	55 1.82	97 0.43	97 0.43	97 0.43	97 0.43
CFM PER RUN COOLING	71	39	5	63	68	63	14	70	14	71	46	68	68	67	67	47	47	37	12	67	16	16	16	16
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH. EQUIVALENT LENGTH	62 170	54 160	42 160	42 140	54 120	50 170	51 140	20 190	46 160	51 150	51 130	54 110	7 150	47 130	42 140	30 130	28 170	27 100	38 100	48	46 150	45	24	18
TOTAL EFFECTIVE LENGTH	232	214	202	182	174	220	191	210	206	201	181	164	157	177	182	160	198	127	138	150 198	196	100 145	140 164	110 128
ADJUSTED PRESSURE	0.07	0.08	0.09	0.09	0.1	0.08	0.09	0.08	0.08	0.09	0.1	0.1	0.11	0.1	0.09	0.11	0.09	0.14	0.12	0.09	0.08	0.11	0.1	0.13
ROUND DUCT SIZE HEATING VELOCITY (ft/min)	6 184	5 242	4 138	<b>6</b> 158	5 242	5 206	4 287	6 143	4 149	6 184	5 242	5 242	6 245	5 404	5 404	5 176	5 411	4 310	6	5	6	6	6	6
COOLING VELOCITY (ft/min)	362	286	57	321	499	463	161	357	161	362	338	499	245 347	404	404 492	345	345	424	291 61	404 492	495 82	495 82	495 82	495 82
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	3X10	3X10	4X10	3X10	4X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	4X10	3X10	4X10	4X10	4X10	4X10
TRUNK	A	В	В	B	D	<u> </u>	D	В	D	Α	D	D	D	A	A	В	D	<u>C</u>	С	A	<u> </u>	В	В	D
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH.	25 BED-4 1.24 28 1.70																			These	Over famet	ilding Standards B	llimbu	87
CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (f/min)	63 0.17 44 180 224 0.08 5 206																			correct made Standa Zoning Ontario approv times.	tions as note without wri rds Branch. g By-Law 2 o Building red documen	ed. No other titen approvation. All work 018-043, as Code, as nts must be ling permit	er changes mal of the Bu must comply amended, a amended. kept on site must be o	nay be nilding y with nd the These at all
COOLING VELOCITY (ft/min)	463																			Discip Buildi	~ 1		3236 Date 2021	e -02-03
OUTLET GRILL SIZE	3X10																				ge System	n. Autriler 4	3236 2021	-02-03
TRUNK	С																			Zonin	g			
SUPPLY AIR TRUNK SIZE																	RETURN A	IR TRUNK	SIZE					
	TRUNK	STATIC PRESS.	ROUND	RECT DUCT			VELOCITY (ft/min)			TRUNK	STATIC PRESS.	ROUND	RECT DUCT			VELOCITY (ft/min)		TRUNK CFM	STATIC PRESS.	ROUND	RECT			VELOCITY (ft/min)
TRUNK A	334	0.07	9.6	12	x	8	501		TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.05	0	0	x	8	(IVMin)
TRUNK B	656 140	0.07 0.08	12.4 6.7	18 8	X	8 8	656 315		TRUNK H	0	0.00	0	0	x	8	0	TRUNK P	0	0.05	0	0	x	8	0
TRUNK C	478	0.08	10.6	0 14	X X	8	615		TRUNK I TRUNK J	0	0.00 0.00	0	0	X X	8 8	0	TRUNK Q TRUNK R	0 0	0.05 0.05	0	0	X X	8 8	0
TRUNK E	0	0.00	0	0	x	8	0		TRUNK K	0	0.00	0	0	x	8	ō	TRUNK S	ŏ	0.05	Ö	ŏ	x	8	ŏ
TRUNK F	0	0.00	0	0	X	8	0		TRUNK L	0	0.00	0	0	Х	8	0	TRUNK T	0	0.05 0.05	0	0	X	8 8	0
																	TRUNK V	0	0.05	Ö	0	X X	8	0
RETURN AIR #	1 0	2 0	3 0	4 0	5 0	6	7 0	8	0	0	0	0	0	0		BR	TRUNK W	425	0.05	11.5	16	X	8	478
AIR VOLUME	115	85	115	85	85	155	155	155	0	0	0	0	0	0	0 0	181	TRUNK X	1131 440	0.05 0.05	16.5 11.6	32 16	X X	8 8	636 495
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	270	0.05	9.7	12	x	8	405
ACTUAL DUCT LGH. EQUIVALENT LENGTH	61 205	48 185	56 225	51 205	54 185	36 210	35 205	33 210	1 0	1 0	1 0	1 0	1 0	1 0	1	14 135	DROP	1131	0.05	16.5	24	x	10	679
TOTAL EFFECTIVE LH	266	233	281	256	239	246	240	243	1	1	1	1	1	1	1	149								
ADJUSTED PRESSURE	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.10								1
ROUND DUCT SIZE	6.7 8	6 8	7 8	6 8	6 8	7.5 8	7.5 8	7.5 8	0	0	0	0	0	0	0	7 8								
	X	X	X	Х	Х	Χ	Х	X	X	X	X	Χ	X	X	X	X								
INLET GRILL SIZE	14	14	14	14	14	14	14	14	0	0	0	00	00	0	0	14	<u> </u>							



TYPE: SITE NAME: GLENWAY 7A

TRINAR HALL HOMES

LO#

88661 LOT 30 RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VE	ENTILATION CAPACITY			9.32.3.5.	]	
a) Direct vent (sealed combustion) only		Total Ventilation Capa	acity	212		cfm		
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil.	Capacity	95.4		cfm		
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplement	al Capacity	116.6		cfm		
d) Solid Fuel (including fireplaces)		PRINCIPAL EXHAUS	ET EAN CADACITY				]	
e) No Combustion Appliances		Model:		Location	DC	мт		
		Wodel.	VANEE 65H	Location	i. DO	IVI I	1	
HEATING SYSTEM		95.4	cfm 3.0	sones	✓ H	VI Approved		
Forced Air Non Forced Air			T HEAT LOSS CALCULA					
		05M 95.4 CFM	ΔΤ°F Χ 81 F	FACTOR X 1.08	×	% LOSS 0.25		
Electric Space Heat							,	
		SUPPLEMENTAL FA		PANASON		Conno		
HOUSE TYPE	9.32.1(2)	Location ENS	Model FV-05-11VK1	cfm 50	HVI	Sones 0.3	┨	
	010211(2)	ENS-2	FV-05-11VK1	50	1	0.3	1	
✓ I Type a) or b) appliance only, no solid fuel		ENS-3	FV-05-11VK1	50	1	0.3	]	
		PWD	FV-05-11VK1	50	1	0.3	]	
II Type I except with solid fuel (including fireplaces)							7	
III Any Type of appliance		HEAT RECOVERY V				9.32.3.11.		
III Any Type c) appliance		Model: 155	VANEE 65H cfm high	64		cfm low	1	
IV Type I, or II with electric space heat		100	- Citt tilgit			Citi IOW	1	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		75	% Sensible Efficience	су	✓ H	VI Approved		
Other: Type I, II or IV no forced air			@ 32 deg F ( 0 deg	C)				
		F					,	
SYSTEM DESIGN OPTIONS CO	O.N.H.W.P.	LOCATION OF INST	ALLATION					
STSTEM DESIGN OPTIONS	J.N.H.VV.P.	Lot:		Concession	n			
1 Exhaust only/Forced Air System	ĺ		······································		<del></del>	***************************************	1	
		Township		Plan:			-	
2 HRV with Ducting/Forced Air System		Address						
3 HRV Simplified/connected to forced air system		Roll#		Building Pe	ermit #			
4 HRV with Ducting/non forced air system		11011#		Dullullig 1 e	*	Town of	]	
		BUILDER:	GREENPARK HON	IES		East Gw	illir	nbury
Part 6 Design		Name:				Building Standards	Branch B	JIN #16487
		rvanic.			Our town, Our fature			
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:			These plans had corrections as			
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			made without Standards Bra	nch. All worl	c must	comply wi
					Zoning By-La Ontario Build	ling Code, a	s ame	nded. The
Other Bedrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	Telephone #:		Fax #:		uilding permi		
Kitchen & Bathrooms 6 @ 10.6 cfm 63.6	cfm	INSTALLING CONTE	RACTOR		posted on site	at all times.		
-					Discipline Building Code	Reviewer H. Authier	BCIN 43236	Date 2021-02-0
Other Rooms6 @ 10.6 cfm63.6	cfm	Name:			Sewage System	n		1
Table 9.32.3.A. TOTAL <u>212.0</u>	cfm	Address:			Zoning			
		O:t					l	
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	City:					-	
PRINCIPAL VENTILATION CAPACITY REQUIRED	3.32.3.4.(1)	Telephone #:		Fax #:				
1 Bedroom 31.8	cfm						_	
		DESIGNER CERTIFI						
2 Bedroom 47.7	cfm		is ventilation system has b	een designed				
3 Bedroom 63.6	cfm	in accordance with th Name:	e Ontario Building Code. HVAC Designs Ltd					
55.5	5,	1			· · · · · · · · · · · · · · · · · · ·		1	
4 Bedroom 79.5	cfm	Signature:	III	Nichael O'Kovel	le.			
5 Bedroom 95.4	cfm	HRAI#		001820			]	
TOTAL 95.4 cfm		Date:		December-20	)			
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL	IFIED IN THE APPR		OTHER DESIGNER" UNDER DIVI				J	
INDIVIDUAL BCIN: 19669 Maked Office. MICHAEL O'RO	URKE							



	CSA F28	30-12 Residential Heat	Loss and Heat Gain Calculations
	Form	ula Sheet (For Air Leak	age / Ventiliation Calculation)
LO#: 88661	Model: GLENWAY 7A	Builder:	GREENPARK HOMES Date: 14/12/2020
	Volume Calculation		Air Change & Delta T Data
House Volume		1	WINTER NATURAL AIR CHANGE RATE 0.234
Level Floor Area (ft²)	Floor Height (ft) Volume (ft³)		SUMMER NATURAL AIR CHANGE RATE 0.065
Bsmt 1502	9 13518		0.000
First 1502	11 16522		
Second 1822	9 16398		Design Temperature Difference
Third 0 Fourth 0	9 0		Tin °C Tout °C ΔT °C ΔT °F
Fourth 1 0	Total: 46,438.0 ft <sup>3</sup>		Winter DTDh         22         -23         45         81           Summer DTDc         24         30         6         11
	Total: 1315.0 m <sup>3</sup>		Summer DTDc   24   30   6   11
			,
5.2.	3.1 Heat Loss due to Air Leakage		6.2.6 Sensible Gain due to Air Leakage
	$LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$		$HG_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$
0.234 x <u>365.27</u>	x <u>45 °C</u> x <u>1.2</u>	= 4634 W	=
		= 15813 Btu/h	= 594 Btu/h
5.2.3.2 He	eat Loss due to Mechanical Ventilation		6.2.7 Sensible heat Gain due to Ventilation
$\mathit{HL}_{vairb} =$	$PVC \times DTD_h \times 1.08 \times (1 - E)$		$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$
95 CFM x 81 °F	x 1.08 x 0.25	= 2097 Btu/h	95 CFM x 11 °F x 1.08 x 0.25 = <b>283 Btu/h</b>
	5.2.3.3 Calcula	tion of Air Change Heat Lo	ss for Each Room (Floor Multiplier Section)

$$HL_{airr} = Level \; Factor \; \times \; HL_{airbv} \; \times \{ \left( HL_{agcr} + \; HL_{bgcr} \right) \div \left( HL_{agclevel} + HL_{bgclevel} \right) \}$$

Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL <sub>clevel</sub> )	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5	(200)	9,243	0.855
2	0.3		11,974	0.396
3	0.2	15,813	12,615	0.251
4	0	ŕ	0	0.000
5	0		0	0.000

<sup>\*</sup>HLairbv = Air leakage heat loss + ventilation heat loss



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

<sup>\*</sup>For a balanced or supply only ventilation system HLairve = 0



375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375

Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

#### **HEAT LOSS AND GAIN SUMMARY SHEET**

				ALIA DOLALIAIVI DILETI	
MODEL:	GLENWAY 7A		OT 30	BUILDER: GREENPARK HOM	
SFQT:	3314	LO# 8	38661	SITE: TRINAR HALL HON	1ES
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOO	R DESIGN TEMP.		-9	OUTDOOR DESIGN TEMP.	86
INDOOR I	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	75
BUILDING	G DATA				
ATTACHM	1ENT:	С	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	IGES PER HOUR:		2.50	ASSUMED (Y/N):	Υ
AIR TIGHT	TNESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EX	POSURE:	Si	HELTERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):		46438.0	ASSUMED (Y/N):	Υ
INTERNAL	SHADING:	BLINDS/	CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR	LIGHTING LOAD (Btu/	/h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	FION CONFIGURATION	I	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	54.0 ft	WIDTH:	35.0 ft	EXPOSED PERIMETER:	178.0 ft

2012 OBC - COMPLIANCE PACKAGE			
		Compliance	Package
Component		ENERG	YSTAR
		Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		60	59.20
Ceiling Without Attic Space Minimum RSI (R)-Va	lue	31	27.70
Exposed Floor Minimum RSI (R)-Value		31	29.80
Walls Above Grade Minimum RSI (R)-Value		R22+R5	21.10
Basement Walls Minimum RSI (R)-Value		20	21.12
Below Grade Slab Entire surface > 600 mm below	w grade Minimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grad	le Minimum RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Mini	mum RSI (R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-V	'alue	ZONE 2	-
Skylights Maximum U-Value	East Gwillimbury	ZONE 2	-
Space Heating Equipment Minimum AFUE	Building Standards Branch BCIN #16487	0.96	-
HRV Minimum Efficiency	Other Annua, Other Section 2.	75%	-
Domestic Hot Water Heater Minimum EF	These plans have been reviewed for use with the corrections as noted. No other changes may be made without written appropriate of the Building	0.9	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





## **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

Heating Load (Watts):		1875				
	Founda	ation Loads				
Heating Month	1					
	Desig	n Months	Building Code Sewage System Zoning	H. Authier	43236	2021-02-
Fluid Temperature (°C):	33		approved documentimes. The built posted on site at	ilding pern all times.	BCIN	be clea
Heated Fraction of the Slab:	0		made without w Standards Branc Zoning By-Law Ontario Buildin	vritten appr ch. All wor 2018-043, ng Code,	oval of t rk must o as amen as amen	he Build comply v ded, and ided. Th
	Radi	ant Slab	These plans have corrections as no			
Door Area (m²):	1.9		E	ast Gv	Villin	nbury
Window Area (m²):	1.1	ENTRETESTATION PROPERTY SECURIFICATION AND PROPERTY AND				
Depth Below Grade (m):	1.83	Insulation Configuration				
Wall Height (m):	2.7					
Exposed Perimeter (m):	0.0					
Floor Width (m):	10.7					
Floor Length (m):	16.5					
F	oundatio	on Dimensions				
Water Table:	Normal	(7-10 m, 23-33 ft)				
Soil Conductivity:		conductivity: dry sand, loam, clay				
region.		description				
Province: Region:	Ontario Bradford	4				
		tion Description				

**TYPE:** GLENWAY 7A

**LO#** 88661

LOT 30



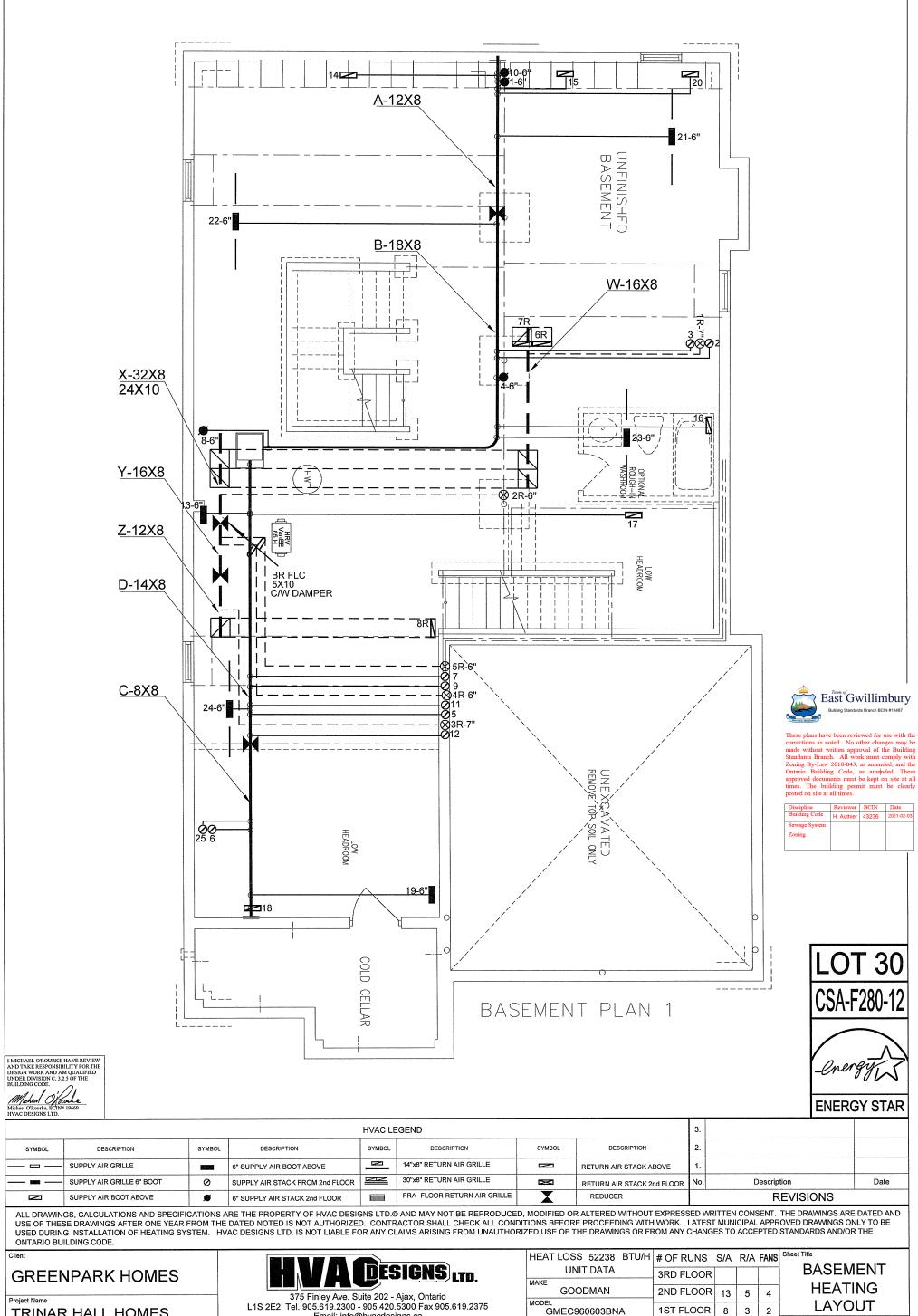
# **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weath	er Station Description	
Province:	Ontario	
Region:	Bradford	
Weather Station Location:	Open flat terrain, grass	
Anemometer height (m):	10	
	Local Shielding	
Building Site:	Suburban, forest	
Walls:	Heavy	
Flue:	Heavy	
Highest Ceiling Height (m):	7.01	East Gwillimbury
Buil	ding Configuration	Building Standards Branch BCIN #16487
Type:	Detached	These plans have been reviewed for use with the corrections as noted. No other changes may be
Number of Stories:	Two	made without written approval of the Buildin Standards Branch. All work must comply wit Zoning By-Law 2018-043, as amended, and the
Foundation:	Full	Ontario Building Code, as amended, and a approved documents must be kept on site at a
House Volume (m³):	1315.0	times. The building permit must be clear posted on site at all times.
Air L	eakage/Ventilation	Discipline Reviewer BCIN Date Building Code H. Authier 43236 2021-02-03 Sewage System
Air Tightness Type:	Energy Star Detached (2.5	Zoning
Custom BDT Data:	ELA @ 10 Pa.	1227.5 cm <sup>2</sup>
	2.50	ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust
	45.0	45.0
	Flue Size	
Flue #:	#1 #2 #3 #4	
Diameter (mm):	0 0 0 0	
Natu	ral Infiltration Rates	
Heating Air Leakage Rate (A	CH/H): 0.234	
Cooling Air Leakage Rate (A	CH/H): 0.065	

**TYPE:** GLENWAY 7A **LO#** 88661

**LOT 30** 



TRINAR HALL HOMES Email: info@hvacdesigns.ca DEC/2020 EAST GWILLIMBURY, ONT. Web: www.hvacdesigns.ca

LOT 30

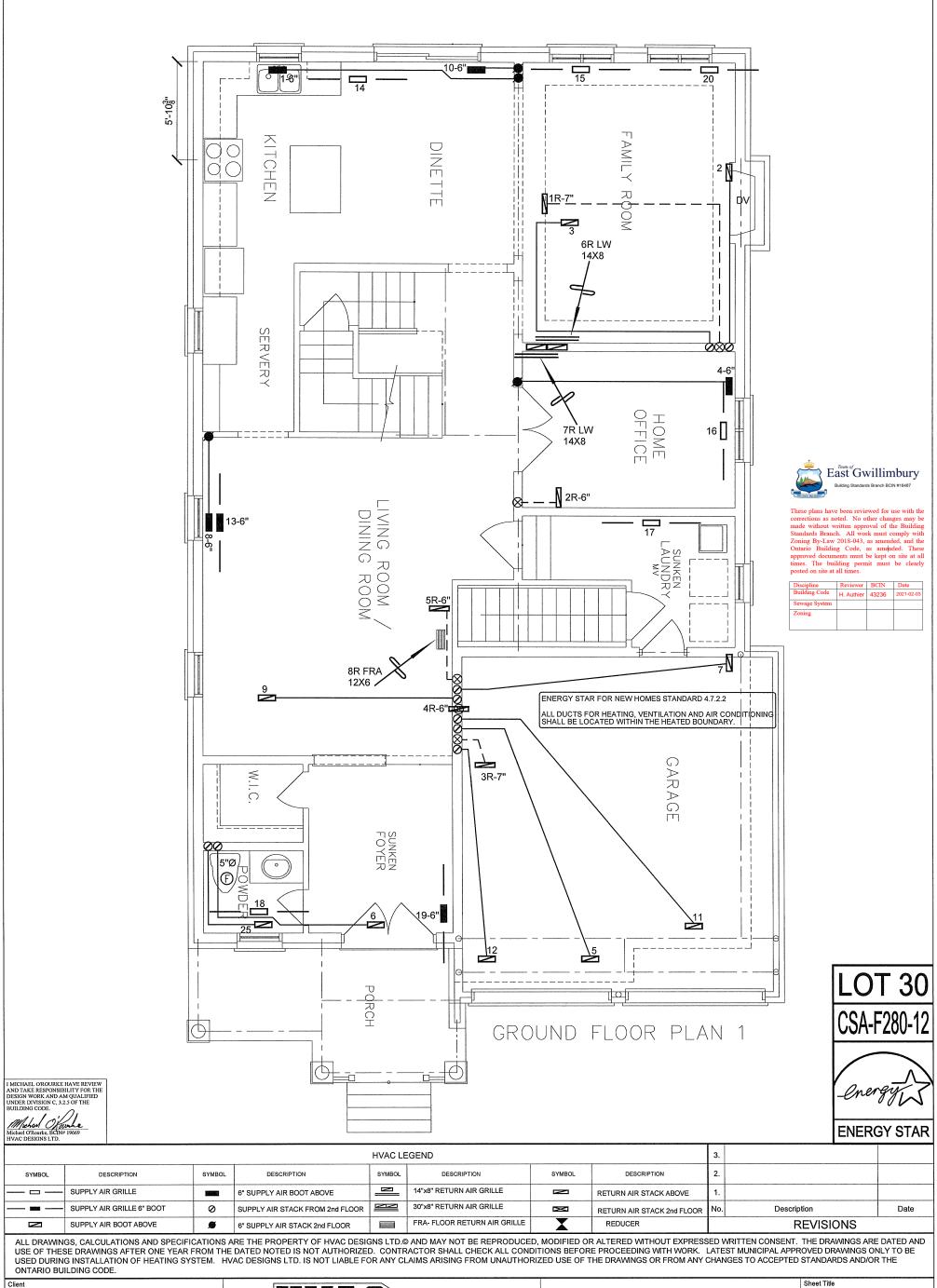
**GLENWAY 7A** 

3314 sqft

Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

,	UNII DATA	•	3RD FLOOR				
MAKE G	OODMAN		2ND FLOOR	13	5	4	
MODEL GME	C960603B1	۸A	1ST FLOOR	8	3	2	
INPUT	60	мвти/н	BASEMENT	4	1	0	Date
OUTPUT	57.6	MBTU/H	ALL S/A DIFFUS				Scal
COOLING	3.0	TONS	ON LAYOUT. AI UNLESS NOTE	LL S/A	RUN	S 5"Ø	
FAN SPEED	1121	cfm @	ON LAYOUT. U				L

3/16" = 1'-0" BCIN# 19669 O# 88661



#### **GREENPARK HOMES**

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

**LOT 30** 

**GLENWAY 7A** 

3314 sqft

# DESIGNS LTD.

375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper.

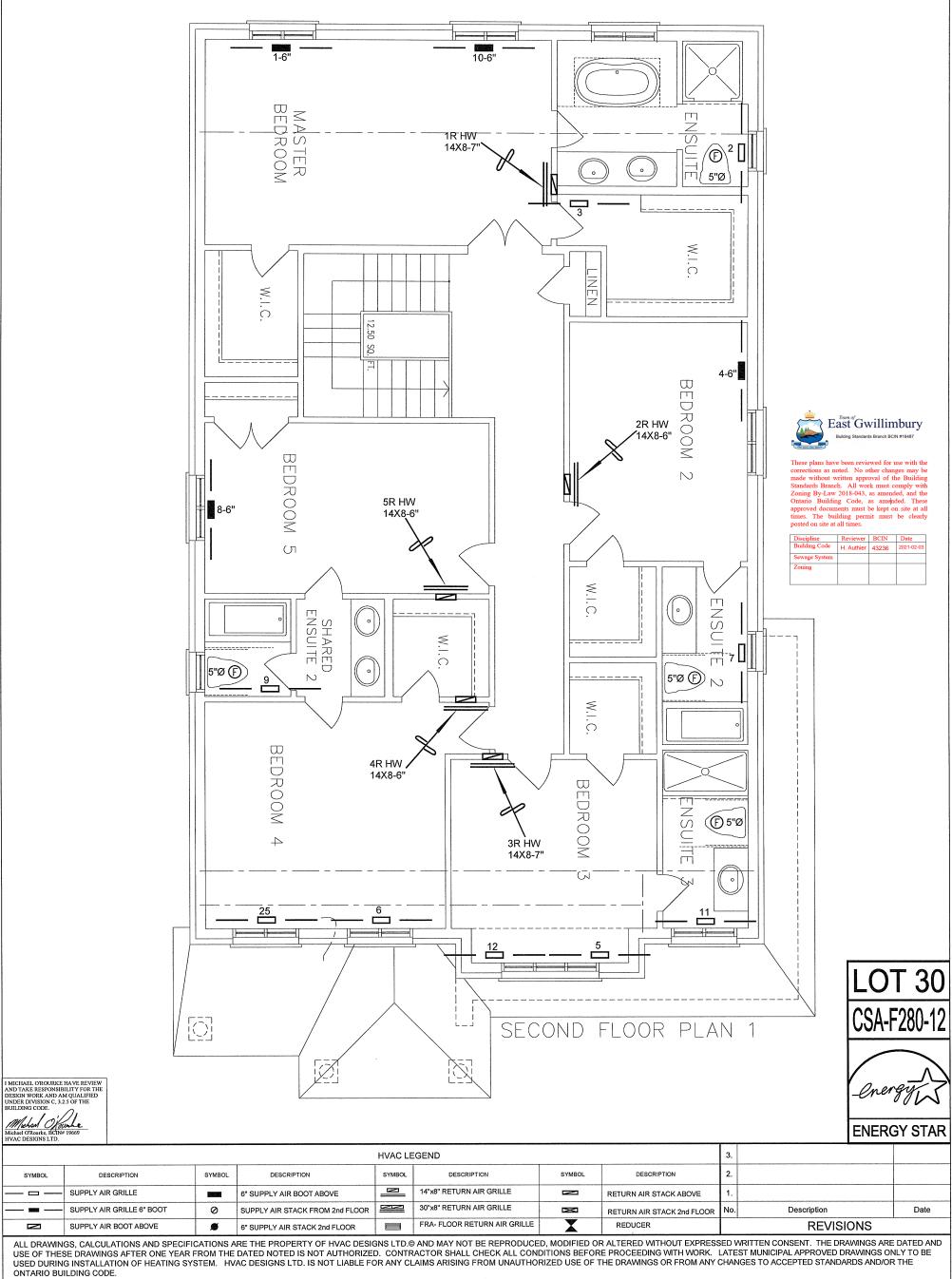
Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

FIRST FLOOR **HEATING LAYOUT** 

DEC/2020 3/16" = 1'-0"

BCIN# 19669

LO# 88661



Client

### **GREENPARK HOMES**

Project Name

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 30 GLENWAY 7A

3314 sqft

# HVA DESIGNS LTD.

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Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

Sheet Title

### SECOND FLOOR HEATING

LAYOUT

Date DEC/2020

Scale 3/16" = 1'-0"

BCIN# 19669

LO# 88661