

TOTAL HEAT GAIN BTU/H:

31241

SITE NAME:	TRINAF	R HALL	номе	s					LOT 18	В								DATE:	Dec-20				WINTE	R NATI	URAL A	AIR CH	ANGE	RATE	0.254		HEAT L	LOSS A	Τ°F.	81			CSA-F28
BUILDER:	GREEN	IPARK	HOMES	3				TYPE:	: GLEN	WAY 7	A			GFA:	3314			LO#	88660				SUMME	R NATI	URAL A	AIR CH	ANGE	RATE	0.071		HEAT (GAIN A	T°F.	11		E	NERGYS'
ROOM USE				MBR			ENS			WIC			BED-2			BED-3			BED-4			ENS-2			BED-5			S-ENS			ENS-3						
EXP. WALL	l			42			22			8			14		1	16			30			11			11			6			17	1					
CLG. HT.				9			9		1	9			9			9			9			9			9			9			9	- 1					
	FACTO	RS							1						l	-			-			-			-	1		-		-	-	1					
GRS.WALL AREA				378			198			72			126		1	144			270		1	99			99			54			153						
GLAZING	1000	OAIIV			GAIN	-		GAIN			GAIN			GAIN	1		GAIN			GAIN			GAIN		LOSS			LOSS			LOSS						
NORTH		45.4	0	0	0	0	0	0	0	0	0	47			١.,		0		0	O AIN	9			0	0	OAIN		0	OAIN O	١,							
EAST	20.4	15.1	0		0	0	0		0	0	0	17	346 0	257	0	0 672		0		-		183	136	-	-	- 1	0	-	-		0	0					
1	20.4	40.7	1 -	0		1 *	-	0	1		-	1	U	0	33		1344	34	692	1384	0	0	0	0	0	0	0	0	0	18		733					
SOUTH	20.4	24.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	346	409	9	183	217	0	0	0					
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	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	0			1		
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	0					
NET EXPOSED WALL	3.9	0.5	344	1327	179	183	706	95	72	278	38	109	421	57	111	428	58	236	910	123	90	347	47	82	316	43	45	174	23	135	521	70			1		
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	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	40					
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	0					
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	13					
BASEMENT/CRAWL HEAT LOSS	l			0		1	0			0			0			0			0			0			0			0			0						
SLAB ON GRADE HEAT LOSS	l			0		1	0			0			0			0			0			0			0			0		l	0						
SUBTOTAL HT LOSS	l			2530			1180			436			1081			2096			1980			810			979			457		1	1082						
SUB TOTAL HT GAIN					1771			775			102			442	1		1632			1661			246			580			281			856					
LEVEL FACTOR / MULTIPLIER			0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27		0.20	0.27						
AIR CHANGE HEAT LOSS				689			321		1	119			294			570			539			220			266			124			294						
AIR CHANGE HEAT GAIN					110			48			6			27			101			103	1		15			36			17			53					
DUCT LOSS				0			0			0			0			267			0			103			0			0			138	- 1					
DUCT GAIN					0			0			0			0			259			0			26			0			0			91					
HEAT GAIN PEOPLE	240		2		480	0		0	0		0	1		240	1		240	1		240	0		0	1		240	0		0	0		0					
HEAT GAIN APPLIANCES/LIGHTS					613			0			0			613			613			613	1		0			613			0			0					
TOTAL HT LOSS BTU/H				3219		l	1502			555			1376		l	2933			0540		l	4400			1245	- 1		582			1514						
																2000			2519		l	1133								į.							
TOTAL HT GAIN x 1.3 BTU/H	İ			0210	3866			1070			140		1370	1719		2333	3699		2519	3402		1133	374		1240	1910		-	388			1301					
TOTAL HT GAIN x 1.3 BTU/H	İ				3866			1070			140		1070	1719		2333	3699		2519	3402		1133	374		1240	1910			388			1301					
ROOM USE	<u> </u>				3866		LV/DN	1070	<u> </u>	K/D/F	140		OFF	1719		LAUN	3699		PWD	3402		FOY	374			1910			388			1301		WOD			BAS
ROOM USE EXP. WALL					3866		LV/DN 26	1070		K/D/F 77	140		OFF 10	1719		LAUN 25	3699		PWD 13	3402		FOY 19	374			1910			388			1301		WOD 45			BAS 178
ROOM USE					3866		LV/DN	1070		K/D/F	140		OFF	1719		LAUN	3699		PWD	3402		FOY	374			1910			388			1301					
ROOM USE EXP. WALL CLG. HT.	FACTO				3866		LV/DN 26 11	1070		K/D/F 77 11	140		OFF 10 11	1719		LAUN 25 12	3699		PWD 13 12	3402		FOY 19 12	374			1910			388			1301		45			178
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA					3866		LV/DN 26	1070		K/D/F 77	140		OFF 10	1719		LAUN 25	3699		PWD 13	3402		FOY 19	374		1240		Town					1301		45			178
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	FACTO				3866		LV/DN 26 11	1070 GAIN		K/D/F 77 11			OFF 10 11	1719 GAIN		LAUN 25 12	3699 GAIN		PWD 13 12	3402 GAIN		FOY 19 12	374 GAIN		1240		East			mbu		1301		45 9	GAIN		178 9
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA	FACTO				3866	0	LV/DN 26 11		0	K/D/F 77 11		20	OFF 10 11		9	LAUN 25 12 300		0	PWD 13 12		0	FOY 19 12 228			1240			t Gw	villi		ıry	1301	0	45 9 405	GAIN 0		178 9 1203
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	FACTO LOSS	GAIN			3866		LV/DN 26 11 286 LOSS	GAIN	0 0	K/D/F 77 11 847 LOSS	GAIN	20 0	OFF 10 11 110 LOSS	GAIN	9 0	LAUN 25 12 300 LOSS	GAIN	0 12	PWD 13 12 156 LOSS	GAIN	0 0	FOY 19 12 228 LOSS	GAIN		1240			t Gw	villi	mbu BCIN #1644	ıry	1301		45 9 405 LOSS			178 9 1203 LOSS G
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH	FACTO LOSS 20.4	GAIN 15.1			3866	0	LV/DN 26 11 286 LOSS 0	GAIN 0	1	K/D/F 77 11 847 LOSS 0	GAIN 0		OFF 10 11 110 LOSS 407	GAIN 303		LAUN 25 12 300 LOSS 183	GAIN 136		PWD 13 12 156 LOSS 0	GAIN 0	1	FOY 19 12 228 LOSS 0	GAIN 0		Chr. Zwa.			t Gw	villi		ıry	1301	0	45 9 405 LOSS 0	0	5	178 9 1203 LOSS G 102
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	FACTO LOSS 20.4 20.4	GAIN 15.1 40.7			3866	0	LV/DN 26 11 286 LOSS 0	GAIN 0	0	K/D/F 77 11 847 LOSS 0	GAIN 0 0	0	OFF 10 11 110 LOSS 407 0	GAIN 303 0		LAUN 25 12 300 LOSS 183	GAIN 136 0	12	PWD 13 12 156 LOSS 0	GAIN 0	0	FOY 19 12 228 LOSS 0	GAIN 0 0		These	Our Alars h	Buildin	t Gw g Standard	Villi s Branch	BCIN#164	ith the	1301	0 0	45 9 405 LOSS 0	0	5 0	178 9 1203 LOSS G 102 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	FACTO LOSS 20.4 20.4 20.4	15.1 40.7 24.1			3866	0 0 26	LV/DN 26 11 286 LOSS 0 0 529	GAIN 0 0 626	0 13	K/D/F 77 11 847 LOSS 0 0	GAIN 0 0 313	0	OFF 10 11 110 LOSS 407 0	GAIN 303 0	0	LAUN 25 12 300 LOSS 183 0	GAIN 136 0	12 0	PWD 13 12 156 LOSS 0 244 0	GAIN 0 489 0	0	FOY 19 12 228 LOSS 0 0	GAIN 0 0		These correct	plans h	Buildin	G Gw g Standard en revie	villi s Branch	BCIN#164	ith the nay be	1301	0 0 0	45 9 405 LOSS 0 0	0 0 0	5 0 10	178 9 1203 LOSS G 102 0 204 2
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	FACTO LOSS 20.4 20.4 20.4 20.4	15.1 40.7 24.1 40.7			3866	0 0 26 0	LV/DN 26 11 286 LOSS 0 0 529	GAIN 0 0 626 0	0 13 63	K/D/F 77 11 847 LOSS 0 0 265 1282	GAIN 0 0 313 2565	0 0 0	OFF 10 11 110 LOSS 407 0 0	GAIN 303 0 0	0 0	25 12 300 LOSS 183 0 0	GAIN 136 0 0	12 0 0	PWD 13 12 156 LOSS 0 244 0	GAIN 0 489 0	0 0	FOY 19 12 228 LOSS 0 0 0	GAIN 0 0 0		These correct made	plans h	Buildin nave been noted.	g Standard	villi s Branch	or use wanges not the Bu	ith the nay be nilding	1301	0 0 0 5	45 9 405 LOSS 0 0 0	0 0 0 204	5 0 10 0	178 9 1203 LOSS G 102 0 204 2
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	FACTO LOSS 20.4 20.4 20.4 20.4 34.2	15.1 40.7 24.1 40.7 99.9			3866	0 0 26 0	286 LOSS 0 0 529 0	GAIN 0 0 626 0	0 13 63 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0	GAIN 0 0 313 2565	0 0 0	OFF 10 11 110 LOSS 407 0 0	GAIN 303 0 0	0 0 0	25 12 300 LOSS 183 0 0 0	GAIN 136 0 0	12 0 0 0	PWD 13 12 156 LOSS 0 244 0 0	GAIN 0 489 0 0	0 0 0	FOY 19 12 228 LOSS 0 0 0	GAIN 0 0 0		These correct made standa	plans h	Buildin nave bee s noted t writte anch.	en revie	wed for	BCIN#164	ith the nay be nilding y with	1301	0 0 0 5	45 9 405 LOSS 0 0 0 102	0 0 0 204 0	5 0 10 0	178 9 1203 LOSS G 102 0 204 2 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0	15.1 40.7 24.1 40.7 99.9 3.7			3866	0 0 26 0	LV/DN 26 11 286 LOSS 0 0 529 0	GAIN 0 0 626 0 0	0 13 63 0 30	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811	GAIN 0 0 313 2565 0	0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0	GAIN 303 0 0 0	0 0 0 0 20	LAUN 25 12 300 LOSS 183 0 0 0 0	GAIN 136 0 0 0 0 73	12 0 0 0 0	PWD 13 12 156 LOSS 0 244 0 0	GAIN 0 489 0 0 0	0 0 0 0 40	FOY 19 12 228 LOSS 0 0 0 0 0	GAIN 0 0 0 0 0		These correct made standa Zoning Ontario	plans h tions as withou urds Bra g By-La o Buil	Buildin nave been s noted t writte anch aw 201 lding (en revie No of All wor 8-043,	wed for the country of the country o	or use wanges not the But complyended, a	ith the nay be milding y with not the These	1301	0 0 0 5 0	45 9 405 LOSS 0 0 0 102 0	0 0 0 204 0	5 0 10 0 0	178 9 1203 LOSS G 102 0 204 2 0 0 541
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5			3866	0 0 26 0 0 0	LV/DN 26 11 286 LOSS 0 0 529 0 0 0	GAIN 0 0 626 0 0 0	0 13 63 0 30 741	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859	GAIN 0 0 313 2565 0 110 386	0 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0	GAIN 303 0 0 0 0	0 0 0 0 20 271	LAUN 25 12 300 LOSS 183 0 0 0 0 541 1045	GAIN 136 0 0 0 73 141	12 0 0 0 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556	GAIN 0 489 0 0 0	0 0 0 0 40 188	FOY 19 12 228 LOSS 0 0 0 0 0 1082 725	GAIN 0 0 0 0 0 146 98		These correct made Standa Zoning Ontaria approv	plans h tions as withou ards Bra g By-Li o Built	Buildin ave bee s noted t writte anch. aw 201 dding (cuments	en revie No of n approal all wor 8-043, Code, a	wed for ther ch oval of k must as amo	or use we anges not to comply ended, a ended.	ith the nay be nilding y with nd the These at all	1301	0 0 0 5 0	45 9 405 LOSS 0 0 0 102 0	0 0 0 204 0 0	5 0 10 0 0 20	178 9 1203 LOSS G 102 0 204 2 0 0 541
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5			3866	0 0 26 0 0 0 260	LV/DN 26 11 286 LOSS 0 0 529 0 0 1003 0	GAIN 0 0 626 0 0 0 136	0 13 63 0 30 741	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0	GAIN 0 0 313 2565 0 110 386	0 0 0 0 0 90	OFF 10 11 110 LOSS 407 0 0 0 0 0 347	GAIN 303 0 0 0 0 0 47	0 0 0 0 20 271 0	LAUN 25 12 300 LOSS 183 0 0 0 0 541 1045 0	GAIN 136 0 0 0 73 141	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 0 556	GAIN 0 489 0 0 0	0 0 0 0 40 188 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0	GAIN 0 0 0 0 0 146 98 0		These correct made Standa Zoning Ontario approve times.	plans h tions as withour rds Brz g By-L o Buill ved doc	Building Courners building	en revie No of n appro All wor 8-043, Code, a must b	wed for ther ch oval of k must as amo	or use wanges not the But complyended, a	ith the nay be nilding y with nd the These at all	1301	0 0 5 0 0 265	45 9 405 LOSS 0 0 0 102 0	0 0 0 204 0 0 0	5 0 10 0 0 20 0 399	178 9 1203 LOSS G 102 0 204 2 0 0 541 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.5			3866	0 0 26 0 0 0 260 0	LV/DN 26 11 286 LOSS 0 0 529 0 0 1003 0	GAIN 0 0 626 0 0 136 0	0 13 63 0 30 741 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0	GAIN 0 0 313 2565 0 110 386 0	0 0 0 0 0 90 0	OFF 10 11 110 LOSS 407 0 0 0 0 347 0	GAIN 303 0 0 0 0 0 47 0	0 0 0 0 20 271 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0	GAIN 136 0 0 0 73 141 0	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556 0	GAIN 0 489 0 0 0 75	0 0 0 0 40 188 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0	GAIN 0 0 0 0 0 146 98 0		These correct made Standa Zoning Ontaria approvitimes.	plans h tions as withou ards Brag g By-Li o Buil ved doc The on site	Building at all to	en revie No of n approal All wor 8-043, Code, a must b g perm imes.	wed for the character of the character o	or use wanges no the But complyed, a consider.	ith the nay be nilding y with nd the These at all clearly	1301	0 0 0 5 0 0 0 265	45 9 405 LOSS 0 0 0 102 0 0 0	0 0 0 204 0 0 0 138	5 0 10 0 0 20 0 399	178 9 1203 LOSS G 102 0 204 2 0 0 541 0 1538 2
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 0 260 0	LV/DN 26 11 286 LOSS 0 0 529 0 0 1003 0	GAIN 0 0 626 0 0 136 0	0 13 63 0 30 741 0 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0 0	GAIN 0 0 313 2565 0 110 386 0 0	0 0 0 0 0 90 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 347 0 0	GAIN 303 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	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556 0	GAIN 0 489 0 0 0 75	0 0 0 0 40 188 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0	GAIN 0 0 0 0 146 98 0		These correct made vistanda Zoning approvitimes. posted	plans h tions as withou ards Bra g By-Li o Buil ved doo The on site	Building (cuments building at all t	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 0 5541 0 1538 2
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 0 260 0	LV/DN 26 11 286 LOSS 0 0 529 0 0 1003 0 0 0 0	GAIN 0 0 626 0 0 136 0	0 13 63 0 30 741 0 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0 0 29	GAIN 0 0 313 2565 0 110 386 0 0	0 0 0 0 0 90 0	OFF 10 11 110 LOSS 407 0 0 0 0 347 0 0	GAIN 303 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	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556 0 0	GAIN 0 489 0 0 0 75	0 0 0 0 40 188 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0	GAIN 0 0 0 0 146 98 0		These correct made Standa Zoning Ontaria approv times. posted Discip Buildi	plans h tions as without and be seen to the consideration of the conside	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en revie No of n approal All wor 8-043, Code, a must b g perm imes.	wed for the character of the character o	or use wanges not to comply inded, a con site st be of Date	ith the nay be nilding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 0 541 0 1538 2 0 0
ROOM USE 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	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 0 260 0	LV/DN 26 11 286 LOSS 0 0 529 0 0 1003 0 0 0 0 0	GAIN 0 0 626 0 0 136 0	0 13 63 0 30 741 0 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0 0 29	GAIN 0 0 313 2565 0 110 386 0 0	0 0 0 0 0 90 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0	GAIN 303 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 136 0 0 0 73 141 0	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556 0 0	GAIN 0 489 0 0 0 75	0 0 0 0 40 188 0	FOY 19 12 228 LOSS 0 0 0 1082 725 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 146 98 0		These correct made standa provo times. posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 0 541 0 1538 2 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BANT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 0 260 0	LV/DN 26 11 286 LOSS 0 0 529 0 0 1003 0 0 0 0 0 0 0 0 0	GAIN 0 0 626 0 0 136 0	0 13 63 0 30 741 0 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 8111 2859 0 0 0 0 0 0 0	GAIN 0 0 313 2565 0 110 386 0 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 47 0	0 0 0 0 20 271 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 136 0 0 0 73 141 0	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 2444 0 0 0 5566 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 489 0 0 0 75	0 0 0 0 40 188 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0	GAIN 0 0 0 0 146 98 0		These correct made Standa Zoning Ontaria approv times. posted Discip Buildi	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 0 5541 0 1538 2 0 0 6360
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 0 260 0	LV/DN 26 11 286 LOSS 0 0 0 529 0 0 0 0 0 0 0 0 0 0 0 1532	GAIN 0 0 0 626 0 0 136 0 0 0 0	0 13 63 0 30 741 0 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0 0 0 29 0 0 5246	GAIN 0 0 313 2565 0 110 386 0 0 12 0	0 0 0 0 0 90 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 136 0 0 0 73 141 0 0	12 0 0 0 0 144 0	PWD 13 12 156 LOSS 0 2444 0 0 0 0 5566 0 0 0 0 800	GAIN 0 489 0 0 0 75 0	0 0 0 40 188 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0	GAIN 0 0 0 0 0 1466 98 0 0 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 541 0 1538 2 0 0 6360
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 11 286 LOSS 0 0 0 529 0 0 0 0 0 0 0 0 0 0 0 1532	GAIN 0 0 0 626 0 0 136 0 0 0 0	0 13 63 0 30 741 0 10	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 2859 0 0 0 29 0 0 5246	GAIN 0 0 313 2565 0 110 386 0 0 12 0	0 0 0 0 0 90 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 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 0 1769	GAIN 136 0 0 0 73 141 0 0	12 0 0 0 0 144 0 0	PWD 13 12 156 LOSS 0 2444 0 0 0 0 5566 0 0 0 0 800	GAIN 0 489 0 0 0 75 0	0 0 0 40 188 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 0 1807	GAIN 0 0 0 0 0 1466 98 0 0 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 0 541 0 1538 2 0 0 6360
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED LG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 11 2866 LOSS 0 0 529 0 0 1003 0 0 0 0 1532 0.43	GAIN 0 0 0 626 0 0 136 0 0 0 0	0 13 63 0 30 741 0 10	K/D/F 77 11 847 LOSS 0 0 265 1282 0 8111 2859 0 0 0 29 0 0 5246	GAIN 0 0 313 2565 0 110 386 0 0 12 0	0 0 0 0 0 90 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 347 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 47 0 0	0 0 0 20 271 0 0	LAUN 25 12 300 LOSS 183 0 0 0 5411 1045 0 0 0 1769 0.43	GAIN 136 0 0 0 73 141 0 0	12 0 0 0 0 144 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556 0 0 0 0 800 0.43	GAIN 0 489 0 0 0 75 0	0 0 0 40 188 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 146 98 0 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 0 541 0 1538 0 0 6360 8744 5 0.87 8594
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BANT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG SYOUTH WEST SKYLT. DOORS NET EXPOSED CLG EXPOSED CLG EXPOSED CLG SYOUTH SET LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR, MULTIPLIER AIR CHANGE HEAT LOSS	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 11 2866 LOSS 0 0 529 0 0 1003 0 0 0 0 1532 0.43	GAIN 0 0 626 0 0 136 0 0 0 0 761	0 13 63 0 30 741 0 10	K/D/F 77 11 847 LOSS 0 0 265 1282 0 8111 2859 0 0 0 29 0 0 5246	GAIN 0 0 31352560 1110 386 0 0 12 0	0 0 0 0 0 90 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 347 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 47 0 0 0	0 0 0 20 271 0 0	LAUN 25 12 300 LOSS 183 0 0 0 5411 1045 0 0 0 1769 0.43	GAIN 136 0 0 0 0 73 141 0 0 0	12 0 0 0 0 144 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 556 0 0 0 0 800 0.43	GAIN 0 489 0 0 0 0 75 0 0	0 0 0 40 188 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 1466 98 0 0 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 204 2 0 541 0 1538 0 0 6360 8744 5 0.87
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	FACTO LOSS 20.4 20.4 20.4 20.4 34.2 27.0 3.9 3.9 1.4 2.9	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 111 2866 LOSS 0 0 529 0 0 11003 0 0 0 0 0 1532 0.43 663	GAIN 0 0 626 0 0 136 0 0 0 0 761	0 13 63 0 30 741 0 10	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 22859 0 0 0 0 5246	GAIN 0 0 31352560 1110 386 0 0 12 0	0 0 0 0 0 90 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 47 0 0 0	0 0 0 20 271 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0 1769 0 0 1769 0 0 1769	GAIN 136 0 0 0 0 73 141 0 0 0	12 0 0 0 0 144 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 489 0 0 0 0 75 0 0	0 0 0 40 188 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0 0 1807 0 0 1807 0 180	GAIN 0 0 0 0 0 146 98 0 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 0 541 0 1538 0 0 6360 8744 5 0.87
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BIMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT COSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GOSS AIR CHANGE HEAT GAIN DUCT LOSS	FACTO LOSS 20.4 20.4 20.4 20.4 3.9 3.9 1.4 2.9 2.7	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 111 2866 LOSS 0 0 529 0 0 11003 0 0 0 0 0 1532 0.43 663	GAIN 0 0 626 0 0 136 0 0 0 761	0 13 63 0 30 741 0 10	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 22859 0 0 0 0 5246	GAIN 0 0 313 2565 0 110 0 0 12 0 0 3386	0 0 0 0 0 90 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 20 271 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0 1769 0 0 1769 0 0 1769	GAIN 136 0 0 0 0 73 141 0 0 0	12 0 0 0 0 144 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 489 0 0 0 75 0 0 0	0 0 0 40 188 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0 0 1807 0 0 1807 0 180	GAIN 0 0 0 0 146 98 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 0 541 0 1538 0 0 6360 8744 5 0.87
ROOM USE EXP. WALL CLG, HT. GRS.WALL AREA GLAZING MORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED EAG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN	FACTO LOSS 20.4 20.4 20.4 20.4 3.9 3.9 1.4 2.9 2.7	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 111 2866 LOSS 0 0 529 0 0 11003 0 0 0 0 0 1532 0.43 663	GAIN 0 0 626 0 0 0 136 0 0 0 0 761 47 0	0 13 63 0 30 741 0 10 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 22859 0 0 0 0 5246	GAIN 0 0 0 313 2565 0 110 386 0 0 0 12 0 0 3386	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 47 0 0 0	0 0 0 20 271 0 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0 1769 0 0 1769 0 0 1769	GAIN 136 0 0 0 0 73 141 0 0 0 0 0 351 22 0	12 0 0 0 144 0 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 489 0 0 0 75 0 0 0	0 0 0 40 188 0 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0 0 1807 0 0 1807 0 180	GAIN 0 0 0 0 0 0 148 98 0 0 0 0 2444 15 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0	5 0 10 0 20 0 399 0	178 9 1203 LOSS G 102 0 0 541 0 1538 0 0 6360 8744 5 0.87 8594
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE	FACTO LOSS 20.4 20.4 20.4 20.4 3.9 3.9 1.4 2.9 2.7	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 111 2866 LOSS 0 0 529 0 0 11003 0 0 0 0 0 1532 0.43 663	GAIN 0 0 626 0 0 136 0 0 761 47	0 13 63 0 30 741 0 10 0	K/D/F 77 11 847 LOSS 0 0 265 1282 0 811 22859 0 0 0 0 5246	GAIN 0 0 0 313 2565 0 110 0 0 12 0 0 3386 211 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 0 47 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 20 271 0 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0 1769 0 0 1769 0 0 1769	GAIN 136 0 0 0 0 73 1441 0 0 0 0 3551 222 0 0 0	12 0 0 0 144 0 0 0	PWD 13 12 156 LOSS 0 244 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 489 0 0 0 75 0 0 0	0 0 0 40 188 0 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0 0 1807 0 0 1807 0 180	GAIN 0 0 0 0 146 98 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0 0	45 9 405 LOSS 0 0 0 102 0 0 1021 0 0 0 1123	0 0 0 204 0 0 0 138 0 0 0	5 0 10 0 0 20 0 399 0 0 0	178 9 1203 LOSS G 102 0 0 541 0 1538 0 0 6360 8744 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	FACTO LOSS 20.4 20.4 20.4 20.4 3.9 3.9 1.4 2.9 2.7	15.1 40.7 24.1 40.7 99.9 3.7 0.5 0.6 1.2			3866	0 0 26 0 0 260 0 0 0	LV/DN 26 111 286 LOSS 0 0 529 0 0 11003 0 0 0 0 1532 0.43 663 0	GAIN 0 0 626 0 0 136 0 0 761 47	0 13 63 0 30 741 0 10 0	K/D/F 77 111 847 LOSS 0 0 265 1282 0 8111 2859 0 0 0 0 5246	GAIN 0 0 0 313 2565 0 110 0 0 12 0 0 3386 211 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OFF 10 11 110 LOSS 407 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 303 0 0 0 0 0 47 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 20 271 0 0 0	LAUN 25 12 300 LOSS 183 0 0 0 541 1045 0 0 0 1769 0 .43 766 0	GAIN 136 0 0 0 0 73 1441 0 0 0 0 3551 222 0 0 0	12 0 0 0 144 0 0 0	PWD 13 12 156 LOSS 0 2444 0 0 0 5556 0 0 0 0 0 800 0 0.43 3466 0	GAIN 0 489 0 0 0 75 0 0 0	0 0 0 40 188 0 0 0	FOY 19 12 228 LOSS 0 0 0 0 1082 725 0 0 0 0 1807 0.43 782 0	GAIN 0 0 0 0 146 98 0 0 0		These correct made standa portous posted Discip Buildi Sewag	plans h tions as without must bring be be before the long to the l	Buildin aave bees s noted t writte anch aw 201 dding (cuments building at all to Ree H	en reviee No of n appre All words. Se-043, cmust be g permismes.	wed for the characteristic way of the charac	or use wanges not to comply inded, a con site st be of Date	ith the nay be illiding y with nd the These at all clearly	1301	0 0 5 0 0 0 265 0 0	45 9 405 LOSS 0 0 102 0 0 1021 0	0 0 0 204 0 0 0 138 0 0 0	5 0 10 0 0 20 0 399 0 0 0	178 9 1203 LOSS G 102 0 0 541 0 1538 0 0 6360 8744 5 0.87 8594

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

LOSS DUE TO VENTILATION LOAD BTU/H: 2097

TONS: 2.60

STRUCTURAL HEAT LOSS: 52102 TOTAL COMBINION OF STRUCTURAL HEAT LOSS: 52102 TOTAL HEAT LOSS: 52102 TOTAL COMBINION OF STRUCTURAL HEAT LOSS: 52102 TOTAL HEAT LOSS: 5210

TOTAL COMBINED HEAT LOSS BTU/H: 54199

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



			HALL HO						LOT 18 GLENWA	NY 7A			DATE:	Dec-20			GFA:	3314	LO# 8	8660				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	1131 52,102 21.71	А		LING CFM EAT GAIN ATE CFM	1131 30,958 36.53		а	furı a/c coil vailable	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35							GMEC9600 FAN		D			AFUE = (BTU/H) = (BTU/H) =	60,000	
RUN COUNT	4th	3rd	2nd	1st	Bas												ME	EDLOV			DESIG	GN CFM =		_
S/A R/A	<u>0</u>	0	13 5	<u>8</u> 3	1				ssure s/a	0.18			pressure	0.17				MEDIU				CFM @ .6	6 " E.S.P.	
All S/A diffusers 4"x10" unle									ress. loss ssure s/a	0.02 0.16		grille pre usted pre	ssure r/a	0.02 0.15			MEDIU	HIGH		TE	MPERATI	URE RISE	47	°F
All S/A runs 5"Ø unless not								<u> </u>			-													• •
RUN#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME RM LOSS MBH.	MBR 1.61	ENS 1.50	WIC 0.55	BED-2 1.38	BED-3 1.47	BED-4 1.26	ENS-2 1.13	BED-5 1.24	S-ENS 0.58	MBR 1.61	ENS-3 1.51	BED-3 1.47	LV/DN 2.20	K/D/F 2.51	K/D/F 2.51	OFF 1.08	LAUN 2.54	PWD 1.15	FOY 2.59	K/D/F 2.51	BAS 4.62	BAS 4.62	BAS 4.62	BAS 4.62
CFM PER RUN HEAT	35	33	12	30	32	27	25	27	13	35	33	32	48	54	54	23	55	25	56	54	100	100	100	100
RM GAIN MBH.	1.93	1.07	0.14	1.72	1.85	1.70	0.37	1.91	0.39	1.93	1.30	1.85	1.85	1.82	1.82	1.28	1.28	0.78	0.34	1.82	0.52	0.52	0.52	0.52
CFM PER RUN COOLING	71	39	5	63	68 0.17	62	14	70 0.17	14	71	48	68	68	67	67	47	47	28	12	67	19	19	19	19
ADJUSTED PRESSURE ACTUAL DUCT LGH.	0.17 62	0.17 54	0.17 42	0.17 42	54	0.17 50	0.17 51	0.17 20	0.17 46	0.17 51	0.17 51	0.17 54	0.17 7	0.17 47	0.17 42	0.17 30	0.17 28	0.17 27	0.17 38	0.17 48	0.16 46	0.16 45	0.16 24	0.16 18
EQUIVALENT LENGTH	170	160	160	140	120	170	140	190	160	150	130	110	150	130	140	130	170	100	100	150	150	100	140	110
TOTAL EFFECTIVE LENGTH	232	214	202	182	174	220	191	210	206	201	181	164	157	177	182	160	198	127	138	198	196	145	164	128
ADJUSTED PRESSURE ROUND DUCT SIZE	0.07 6	0.08 5	0.09 4	0.09	0.1	0.08 5	0.09 4	0.08 6	0.08 4	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
HEATING VELOCITY (ft/min)	178	242	138	6 153	5 235	198	287	138	4 149	6 178	5 242	5 235	6 245	5 396	5 396	5 169	5 404	4 287	6 286	5 396	6 510	6 510	6 510	6 510
COOLING VELOCITY (ft/min)	362	286	57	321	499	455	161	357	161	362	352	499	347	492	492	345	345	321	61	492	97	97	97	97
OUTLET GRILL SIZE	4X10	3X10	3X10	4X10	3X10	3X10	3X10	4X10	3X10	4X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10		3X10	4X10	4X10	4X10	4X10
TRUNK	A	В	В	В	D	С	D	В	D	A	D	D	D	A	Α	В	D	<u>C</u>	С	A	A	В	B	D
RUN#	25				***************************************						************							7	Town of					
ROOM NAME	BED-4																	₹ Ea	st Gwilli	mbury	7			
RM LOSS MBH. CFM PER RUN HEAT	1.26 27																	B u	ilding Standards Branch	BCIN #16487				
RM GAIN MBH.	1.70																Our town, Our fa	fature						
CFM PER RUN COOLING	62																		been reviewed fo					
ADJUSTED PRESSURE	0.17																		ed. No other chitten approval of					
ACTUAL DUCT LGH. EQUIVALENT LENGTH	44 180																Standards	s Branch	. All work mus	t comply w	ith			
TOTAL EFFECTIVE LENGTH	224																		018-043, as ame Code, as am					
ADJUSTED PRESSURE	0.08																approved	docume	nts must be kep	t on site at	all			
ROUND DUCT SIZE	5																posted on	he build i site at a	ling permit mu Il times.	st be clea	rly			
HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min)	198 455																Disciplin		Reviewer BCIN	Date	_			
OUTLET GRILL SIZE	3X10																Building		H. Authier 43236		03			
TRUNK	C										************	****					Sewage S	System						
SUPPLY AIR TRUNK SIZE																	Zoning							
OUT ET AIK TRONK OLL	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	- N	LIVOININ	SINIO	NOOND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A	332 657	0.07 0.07	9.6 12.4	12 18	X	8 8	498 657		TRUNK G TRUNK H	0	0.00 0.00	0	0	X	8 8	0	TRUNK O	0	0.05 0.05	0 0	0	X	8	0
TRUNK C	135	0.07	6.6	8	X X	8	304		TRUNK I	0	0.00	0	0	X X	8	0	TRUNK Q	0	0.05	0	0	X X	8 8	0
TRUNK D	473	0.08	10.6	14	x	8	608		TRUNK J	ō	0.00	Ö	ō	X	8	ō	TRUNK R	ŏ	0.05	ŏ	ő	x	8	ŏ
TRUNK E	0	0.00	0	0	X	8	0		TRUNK K	0	0.00	0	0	х	8	0	TRUNK S	0	0.05	0	0	x	8	0
TRUNK F	0	0.00	0	0	Х	8	00		TRUNK L	0	0.00	0	0	Х	88	0	TRUNK T	0	0.05 0.05	0 0	0 0	X X	8 8	0
																	TRUNK V	Ō	0.05	0	0	x	8	0
RETURN AIR #	1 0	2	3 0	4 0	5 0	6 0	7 0	8 0	0	0	0	0	0	0	0	BR	TRUNK W	425 1131	0.05 0.05	11.5 16.5	16 32	X	8	478 636
AIR VOLUME	115	85	115	85	85	155	155	155	Ö	Ö	0	0	0	0	0	181	TRUNK Y	440	0.05	11.6	32 16	X X	8	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	48 185	56	51 205	54 195	36 310	35 305	33	1	1	1	1	1	1	1	14	DROP	1131	0.05	16.5	24	x	10	679
TOTAL EFFECTIVE LH	205 266	185 233	225 281	205 256	185 239	210 246	205 240	210 243	0 1	0 1	0 1	0 1	0 1	0 1	0 1	135 149								
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								
ROUND DUCT SIZE	6.7	6	7	6	6	7.5	7.5	7.5	0	0	0	0	0	0	0	7	İ							
INLET GRILL SIZE	8 X	8 X	8 X	8 X	8 X	8 X	8 X	8 X	0 X	0 X	0 X	0 X	0 X	0 X	0 X	8 X								
INLET GRILL SIZE	14	14	14	14	14	14	14	14	ô	ô	ô	ô	ô	ô	ô	14								
·																								



TYPE:

GLENWAY 7A

SITE NAME: TRINAR HALL HOMES

LO#

88660 LOT 18

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9).32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY			9.32.3.5.	1
a) Direct vent (sealed combustion) only		Total Ventilation Capacity	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 Supplemental Capacity	116.6		cfm	
d) Solid Fuel (including fireplaces)]
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CAPACITY				
		Model: VANEE 65H	Locatio	n: BS	MT	
HEATING SYSTEM		95.4 cfm 3.0 s	ones	✓ H	VI Approved	
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION CFM	ON FACTOR		% LOSS	
Electric Space Heat		95.4 CFM X 81 F	X 1.08	Х	0.25	
Licetine opener rieat		SUPPLEMENTAL FANS	PANASO		_	1
HOUSE TYPE	9.32.1(2)	Location Model ENS FV-05-11VK1	cfm 50	HVI	Sones 0.3	1
		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	✓	0.3	1
		PWD FV-05-11VK1	50	√	0.3	J
II Type I except with solid fuel (including fireplaces)		HEAT DECOVEDY VENTUATOR			0 20 0 44	1
III Any Type c) appliance		HEAT RECOVERY VENTILATOR Model: VANEE 65H			9.32.3.11.	
/u.j 1,jpc o) application		155 cfm high	64		cfm low	1
IV Type I, or II with electric space heat						
Other: Type I, II or IV no forced air		75 % Sensible Efficiency @ 32 deg F (0 deg C)		[✓] H	/I Approved	
		LOCATION OF INSTALLATION				1
SYSTEM DESIGN OPTIONS O.	N.H.W.P.					
1 Exhaust only/Forced Air System		Lot:	Concessio	n		
2 HRV with Ducting/Forced Air System		Township	Plan:			
		Address				
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		Roll #	Building Pe	ermit #		
4 HRV with Ducting/non forced air system		BUILDER: GREENPARK HOMES		F	East Gw	illimbı
Part 6 Design					Building Standards E	
		Name:		These plans ha	ve been review	ed for use v
TOTAL VENTILATION CAPACITY 9.	.32.3.3(1)	Address:		made without	written approv	al of the B
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:		Standards Bran Zoning By-Lav Ontario Build	v 2018-043, as	amended,
Other Bedrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	Telephone #:	Fax #:	approved docu times. The bi	ments must be uilding permit	kept on sit
Kitchen & Bathrooms6@ 10.6 cfm63.6	cfm	INSTALLING CONTRACTOR		posted on site a		BCIN Da
Other Rooms 6 @ 10.6 cfm 63.6	cfm	Name:		Building Code Sewage System		13236 202
Table 9.32.3.A. TOTAL 212.0	cfm	Address:		Zoning		
10112	J					
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.3	32.3.4.(1)	City:	····			
1 Bedroom 31.8	cfm	Telephone #:	Fax #:			
2 Bedroom 47.7	cfm	DESIGNER CERTIFICATION	doolessel			
		I hereby certify that this ventilation system has beer in accordance with the Ontario Building Code.	i uesigned			
3 Bedroom 63.6	cfm	Name: HVAC Designs Ltd.),		
4 Bedroom 79.5	cfm	Signature:	had Oxform	le.		
5 Bedroom 95.4	cfm	HRAI#	001820			
		.	D			
TOTAL 95.4 cfm	j	Date:	December-20)	1	



	AND THE RESERVE OF THE PARTY OF		CSA F28	30-12 Residential Heat	Loss a	nd Heat Gair	n Calculations						
			Form	ula Sheet (For Air Leak	age / \	entiliation (Calculation)						
LO#:	88660	Model: GLENWAY 7A		Builder:	GREEN	PARK HOMES				Date:	14/12/2020		
		Volume Calculation	1		Air Change & Delta T Data								
				1						1	1		
House Volume								ATURAL AIR CHANG		0.254			
Level							SUMMER	NATURAL AIR CHAN	GE RATE	0.071	J		
Bsmt	1502	9	13518										
	First 1502 11 16522												
	Second 1822 9 16398								emperature Diff		T		
Third	0	9	0					Tin °C	Tout °C	ΔT °C	ΔT °F		
Fourth	0	9	0				Winter DTDh	22	-23	45	81		
		Total:	46,438.0 ft ³	,			Summer DTDc	24	30	6	11		
		Total:	1315.0 m³										
	5.2.3	.1 Heat Loss due to Air	Leakage				6.2.0	Sensible Gain due	to Air Leakage				
	$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_h \times 1.2$			F	$HG_{salb} = LR_{airc}$	$\times \frac{V_b}{3.6} \times DTD_c$	× 1.2				
0.254	x <u>365.27</u>	x <u>45 °C</u>	x <u>1.2</u>	= 5037 W	= -	0.071	x <u>365.27</u>	x <u>6°C</u>	x1.2	- =	189 W		
				= 17187 Btu/h						=	646 Btu/h		
	5.2.3.2 Hea	t Loss due to Mechan	cal Ventilation				6.2.7 S	ensible heat Gain d	ue to Ventilatio	n			
	$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$					HL	$_{vairb} = PVC \times I$	$OTD_h \times 1.08 \times$	(1 - E)				
95 CFM	x <u>81°F</u>	x <u>1.08</u>	x <u>0.25</u>	= 2097 Btu/h	-	95 CFM	x11 °F	x <u>1.08</u>	x0.25	=	283 Btu/h		
			tion of Air Change Heat Lo	ss for E	ach Room (Flo	or Multiplier Section	1)						
								7					

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

Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{clevel})	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5		9,868	0.871
2	0.3		11,908	0.433
3	0.2	17,187	12,632	0.272
4	0		0	0.000
5	0		0	0.000

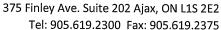
^{*}HLairbv = Air leakage heat loss + ventilation heat loss



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			

^{*}For a balanced or supply only ventilation system HLairve = 0





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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	GLENWAY 7A		LOT 18	BUILDER: GREENPARK HOME:	S
SFQT:	3314	LO#	88660	SITE: TRINAR HALL HOME	ES
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
	R DESIGN TEMP. DESIGN TEMP.		-9 72	OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F)	86 75
INDOOR	LSIGN TEINIT.		72	INDOOR DESIGN TEINF. (MAX 75 F)	/5
BUILDING	DATA	77.7.			
ATTACHM	IENT:		DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		2.50	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EXP	OSURE:	:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VC	DLUME (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	ION CONFIGURATION		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 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 amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times. **Compliance Package** Component **ENERGYSTAR** Nominal Min. Eff. Ceiling with Attic Space Minimum RSI (R)-Value 60 59.20 Ceiling Without Attic Space Minimum RSI (R)-Value 31 27.70 Discipline Reviewer BCIN Building Code H. Authier 43236 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 grade Minimum RSI (R)-Value Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value 10 10 Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value 10 11.13 Windows and Sliding Glass Doors Maximum U-Value ZONE 2 Skylights Maximum U-Value ZONE 2 Space Heating Equipment Minimum AFUE 0.96 HRV Minimum Efficiency 75% Domestic Hot Water Heater Minimum EF 0.9

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Heating Load (Watts):		1864				
	Founda	tion Loads				
Heating Month	1			1	<u> </u>	
	Desig	n Months	Sewage System Zoning			
Fluid Temperature (°C):	33		Discipline Building Code	Reviewer H. Authier	BCIN 43236	Date 2021-02-
Heated Fraction of the Slab:	o		made without v Standards Brand Zoning By-Law Ontario Buildin approved docum	ch. All wo 2018-043, ng Code, nents must	rk must o as amen as amer be kept o	comply w ded, and ided. Th on site at
	Radi	ant Slab	These plans have corrections as n	oted. No c	ther char	iges may
Door Area (m²):	1.9			ast Gv Building Standar		•
Window Area (m²):	1.9		•			
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	n Dimensions				
Water Table:	Normal ((7-10 m, 23-33 ft)				
Soil Conductivity:		conductivity: dry sand, loam, clay				
		escription				
Province: Region:	Ontario Bradford	ı				
		tion Description				

TYPE: GLENWAY 7A **LO#** 88660

LOT 18



Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weat	her 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):	7.92
Bu	ilding Configuration
Type:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m³):	1315.0
Air	Leakage/Ventilation
Air Tightness Type:	Energy Star Detached (2.5 ACH)
Custom BDT Data:	ELA @ 10 Pa. 1227.5 cm
	2.50 ACH @ 50 P
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
Nati	ural Infiltration Rates East

Heating Air Leakage Rate (ACH/H): 0.254

0.071 Cooling Air Leakage Rate (ACH/H):

TYPE: GLENWAY 7A

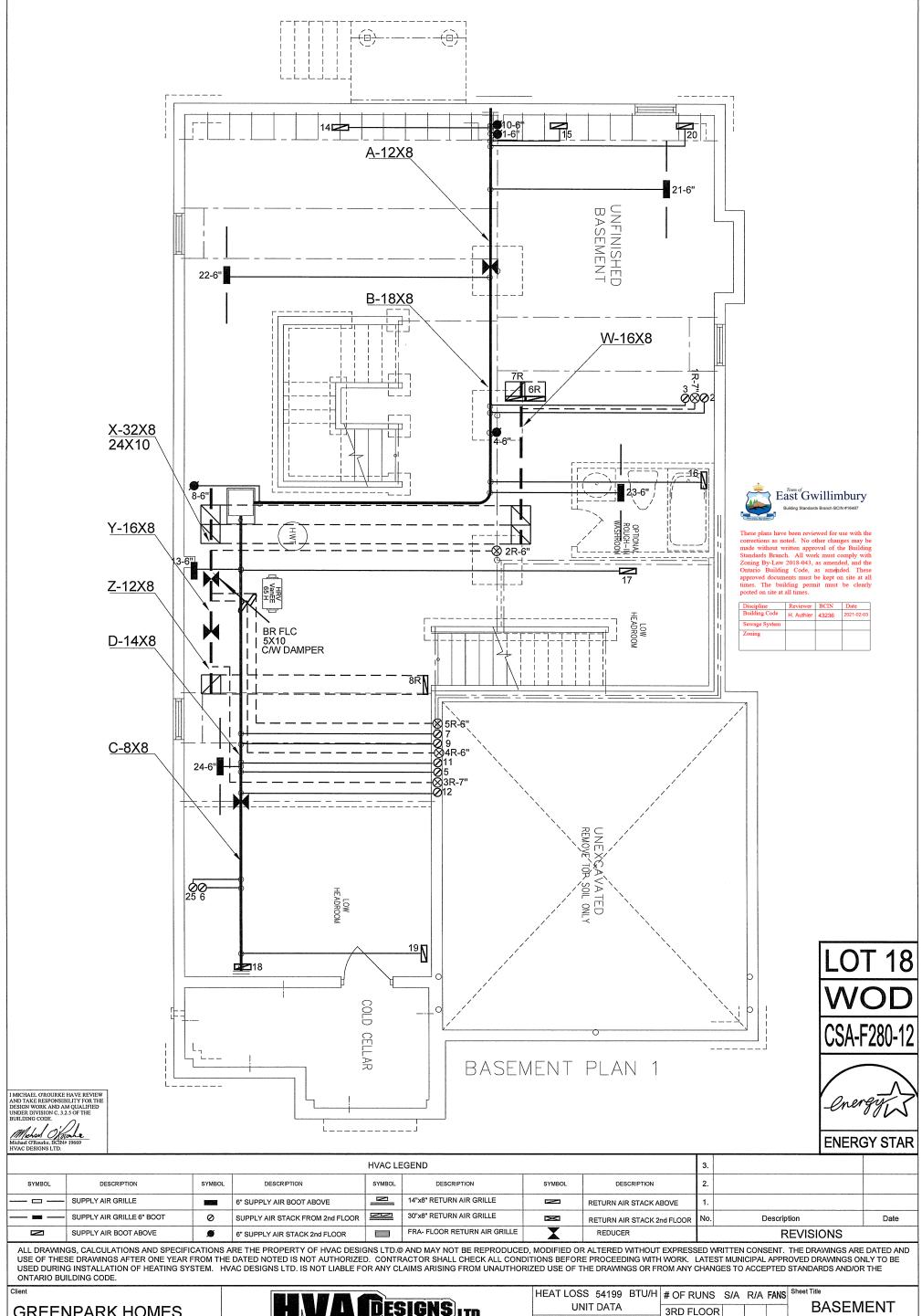
LO# 88660

LOT 18

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.

Building Standards Branch BCIN #16487

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



GREENPARK HOMES

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 18 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.

	SS 54199	BTU/H	# OF RUNS	S/A	R/A	FANS	Sh
	NIT DATA		3RD FLOOR				
MAKE GC	OODMAN		2ND FLOOR	13	5	4	
MODEL GMEC	960603BN	A	1ST FLOOR	8	3	2	
INPUT	60	МВТИ/Н	BASEMENT	4	1	0	Da
OUTPUT	57.6	мвти/н	ALL S/A DIFFU				Sc
COOLING	3.0	TONS	UNLESS NOTE ON LAYOUT. A	LL S/A	RUN	S 5"Ø	

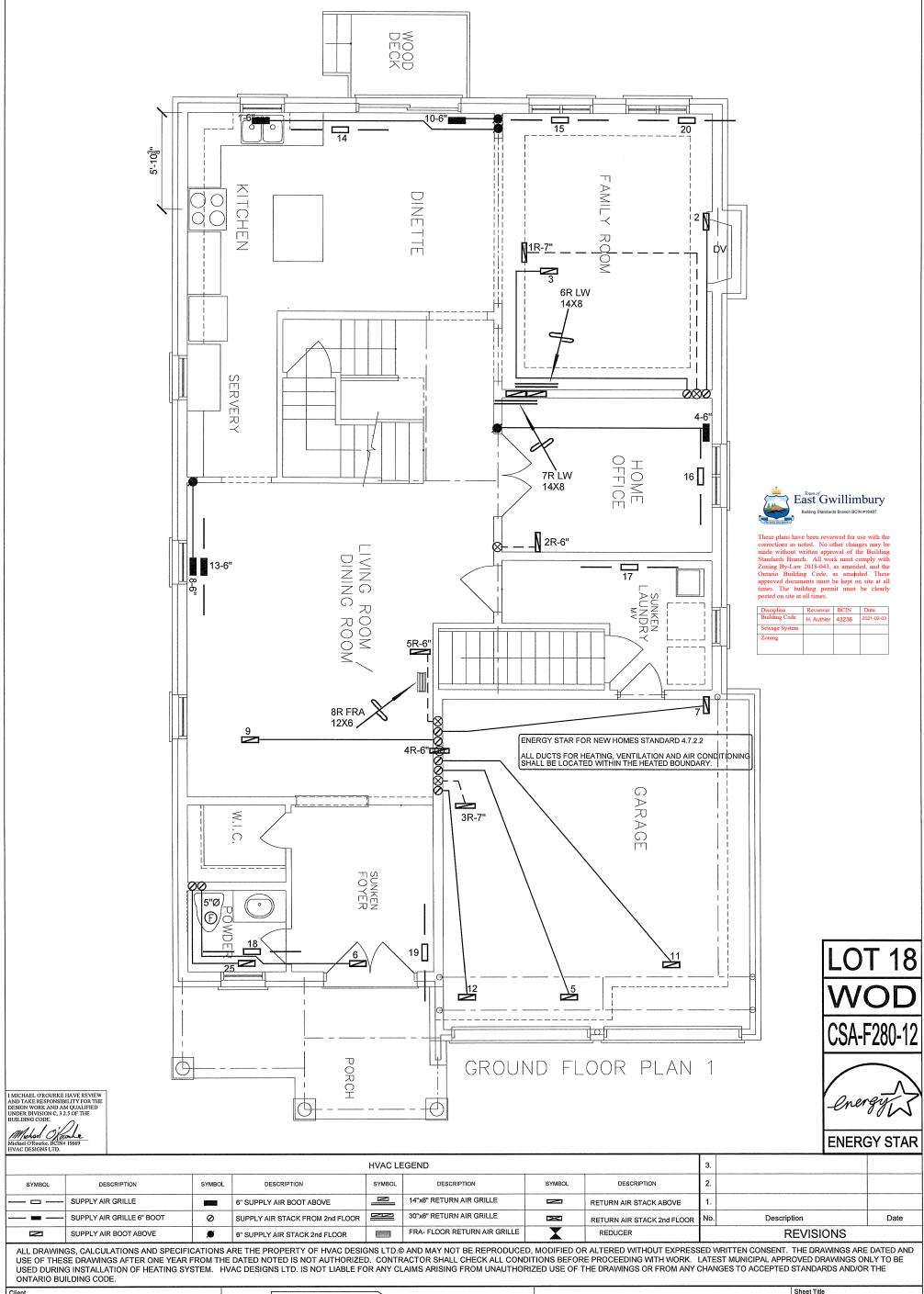
FAN SPEED

1131

ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

HEATING LAYOUT DEC/2020 3/16" = 1'-0" BCIN# 19669 88660 LO#



GREENPARK HOMES

TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 18 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

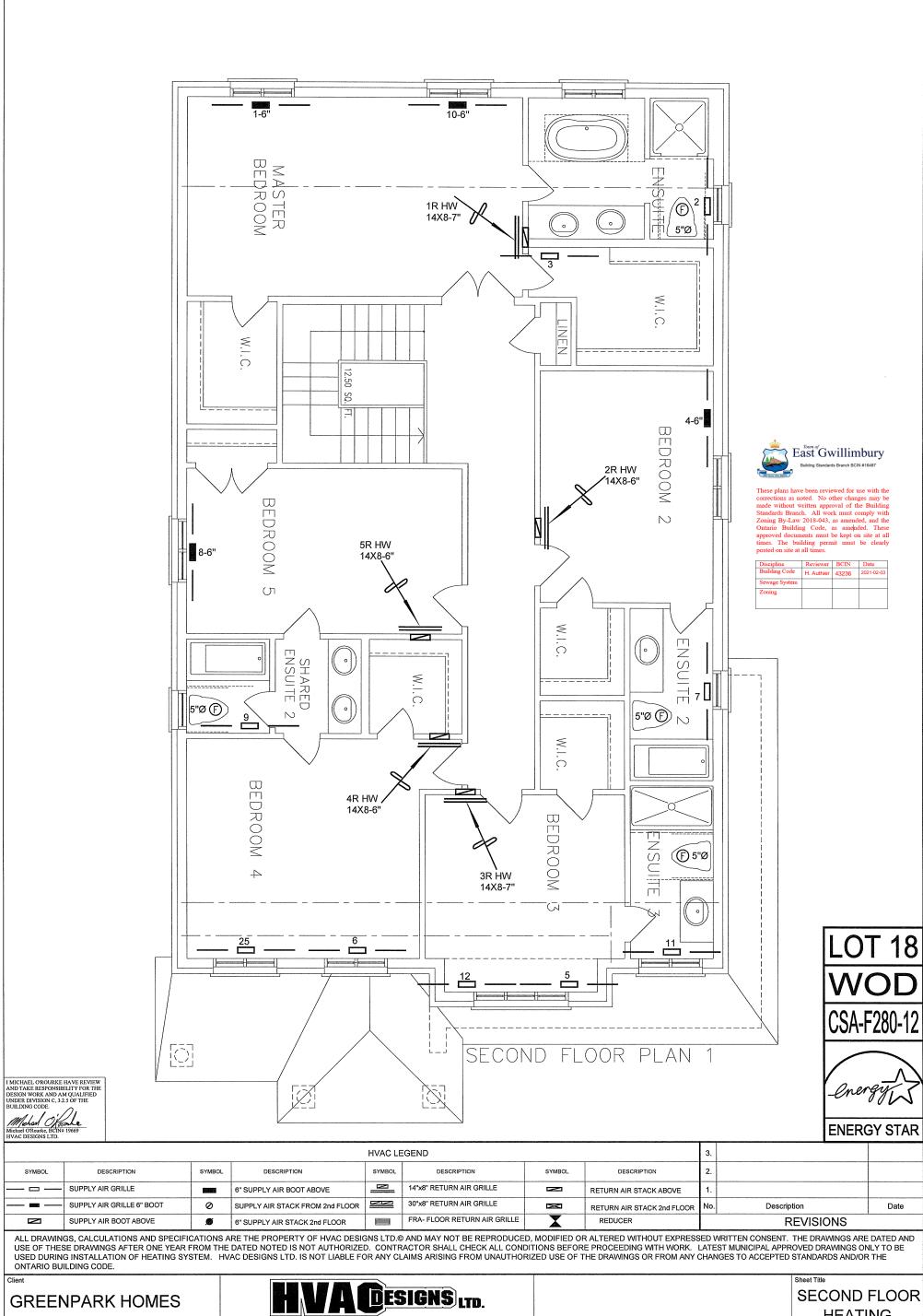
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

FIRST FLOOR **HEATING LAYOUT**

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

BCIN# 19669

88660 LO#



TRINAR HALL HOMES EAST GWILLIMBURY, ONT.

LOT 18 GLENWAY 7A

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

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