

SITE NAME:																		E: Jan-1	,		,	WINTE	R NAT	URAL	AIR CH	IANGE RATE	0.250) F	IEAT LOS	S AT °F	. 72			CSA-F2	80-12
BUILDER:		NPARK	HOM	ES				TYPE:	IVY 11				(GFA: 2	2256		LO	# 71719			S	UMME	R NAT	URAL A	AIR CH	ANGE RATE	0.076	1	HEAT GAI	N AT °F	. 14		E	ENERGY	STAR
ROOM USE				MBR			ENS		1	WIC		E	BED-2			BED-3		BED-4			BATH														
EXP. WALL	l			32			9		l	0			11			34		21		l	10		l												
CLG. HT.	l			9			9		l	9			9			10	1	9		1	9		1												
	FACTO	ors	l														ļ				•												l		
GRS.WALL AREA				282			79		l	0			97			340	- 1	185			88									1			i		
GLAZING		CAIN		LOSS	CAINI			CAIN	l	-	CAINI		oss e			•							l										l		
	ı		١.			١.	LOSS		١.	LOSS						LOSS GAI	- 1	LOSS			LOSS				- 1					1					
NORTH		15.9	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0 0	•	0	0	0	0	0											1		
EAST	20.4	40.7	0	0	0	0	0	0	0	0	0	40		1629	23	469 93	1	0	0	0	0	0						.41		T	γM	VI OF	= 1/1	LTO	VI.
SOUTH	20.4	24.5	36	734	883	0	0	0	0	0	0	0	0	0	18	367 44	2 36	734	883	11	224	270							PLANN						
WEST	20.4	40.7	22	449	896	16	326	651	0	0	0	0	0.	0	0	0 0	0	. 0	0	0	0	0					Ì	MILTON							'
SKYLT.	35.7	102.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0					L		BU	ILDIN	NG P	EKM	11:17	7-5337	
DOORS	24.1	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0					F	ום ווטו	NG: RI	=\/IF\	WED				
NET EXPOSED WALL	3.1	0.6	224	686	129	63	194	36	Ιo	0	0	57	174	33	299	917 17	2 149	9 456	86	77	236	44	ļ.										1111	0 204	7
NET EXPOSED BSMT WALL ABOVE GR	3.6	0.7	0	0	0	0	0	. 0	۱۰	0	0	0	0	0	0	0 0		0	0	0	0	0							SHER		· S		VIAY	9, 201	1
EXPOSED CLG	i	0.7	252	365	179	126	182	90	63	91	45			94	96	139 68		9 390	192	104	151	74	'				P	LANS E	XAMINE	₹				DAT	Е
NO ATTIC EXPOSED CLG		1.1	0	0	0	0	0	0	0	0	0	0	0	0	24	56 28			31	0	0	0					N	leither th	e issuanc	e of a p	permit	nor car	rying o	ut of	
EXPOSED FLOOR			ı	0	0	1 -	0	0		0	0				0		1			L									is by the						m 📗
1	2.3	0.4	0	0	U	0	0	U	0	-	U	132		58	U		12		5	0	0	0							nsibility fo						-
BASEMENT/CRAWL HEAT LOSS				Ü			0			0			0			0		0			0								io Building						
SLAB ON GRADE HEAT LOSS				0		1	0		l	0		l	0			0		0			0		1						h as ame						
SUBTOTAL HT LOSS			1	2234		1	703			91			1490			1949		1672			611		İ						nd regula						
SUB TOTAL HT GAIN					2087			778			45			1813		164	6		1197	Ī		388					В	y-laws o	f the Reg	ion of F	lalton a	and Io	wn of N	/lilton	_
LEVEL FACTOR / MULTIPLIER			0.20	0.22		0.20	0.22		0.20	0.22		0.20	0.22		0.20	0.22	0.2	0 0.22		0.20	0.22		l					1		TE					=
AIR CHANGE HEAT LOSS				501			158		1	20			334			437		375			137									1 1	F	REC	FI\/F	FD	
AIR CHANGE HEAT GAIN					126			47	1		3			109		99			72			23								1 1				LTON	
DUCT LOSS				0			0		İ	0			182			0	1	205			0									1 1	101	/VIN C	I IVII	LION	
DUCT GAIN				٠	0		·	0		U	0			263		0		200	198		Ü	0								1 1		MAY	5, 20	17	
HEAT GAIN PEOPLE			١.		•	١,		-	١.		- 1					-				١.,		-								1 1			1		
	240		2		480	0		0	0		0	1		240	1	24			240	0		0								1 1		17-	5337	·	
HEAT GAIN APPLIANCES/LIGHTS					472			0	l		0			472		47	2		472			0			- 1					1	DI III	DINI	2 DIV	/ISION	
TOTAL HT LOSS BTU/H				2735			860			112			2006	- 1		2386					748		l		- 1			1			DUIL	I JIINU	סוט כ	1000	4
																	- 1	2251			140				- 1			1							_
TOTAL HT GAIN x 1.3 BTU/H					4115			1072	<u> </u>		62			3767		319	5	2251	2833		140	535						<u> </u>		┸┺			L		
	L				4115			1072			62			3767		319	5		2833			535						<u> </u>		<u> </u>					
ROOM USE	l			OFF	4115		DIN	1072		KT/FM	62			3767			5	2251 W/R	2833		FOY	535		MUD	l			I			WOD		L	BAS	
ROOM USE EXP. WALL				OFF 36	4115		DIN 31	1072		KT/FM 40	62			3767		319	5		2833			535		MUD 6			·	<u> </u>						BAS 134	
ROOM USE					4115			1072			62			3767		319 LAUN	5	W/R	2833		FOY	535						I			WOD				
ROOM USE EXP. WALL CLG. HT.	FACTO	DRS		36	4115		31	1072		40	62			3767		319 LAUN 0	5	W/R 4	2833		FOY 11	535		6							WOD 23			134	
ROOM USE EXP. WALL CLG. HT.				36	4115		31	1072		40	62			3767		319 LAUN 0	5	W/R 4	2833		FOY 11	535		6							WOD 23			134	
ROOM USE EXP. WALL CLG. HT.				36 10			31 10			40 10				3767		319 LAUN 0 9		W/R 4 11			FOY 11 10			6 11	GAIN						WOD 23 9			134 9 1049	GAIN
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	LOSS	GAIN	0	36 10 360 LOSS	GAIN	0	31 10 310 LOSS	GAIN		40 10 400 LOSS	GAIN			3767		AUN 0 9 0 LOSS GA	N	W/R 4 11 44 Loss	GAIN		FOY 11 10 110 LOSS	GAIN	ł .	6 11 66 LOSS							WOD 23 9 202 LOSS	GAIN	4	134 9 1049 LOSS	
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH	LOSS 20.4	GAIN 15.9	0	36 10 360 LOSS 0	GAIN 0	0	31 10 310 LOSS 0	GAIN 0	0	40 10 400 LOSS 0	GAIN 0			3767		315 LAUN 0 9 0 LOSS GA 0 0	N o	W/R 4 11	GAIN 0	0	FOY 11 10 110 LOSS 0	GAIN 0	0	6 11 66 LOSS	0					10	WOD 23 9 202 LOSS 204	GAIN 159	4	134 9 1049 LOSS 82	63
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	20.4 20.4	GAIN 15.9 40.7	32	36 10 360 LOSS 0 653	GAIN 0 1303	0	31 10 310 LOSS 0	GAIN 0 0	0	40 10 400 LOSS 0	GAIN 0 0			3767		0 0 0 0	N 0	W/R 4 11 44 Loss	GAIN 0	0 0	FOY 11 10 110 LOSS 0	GAIN 0 0	0	6 11 66 LOSS 0 0	0					10 0	WOD 23 9 202 LOSS 204 0	GAIN 159 0	4 0	134 9 1049 LOSS 82 0	63 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	20.4 20.4 20.4 20.4	GAIN 15.9 40.7 24.5	32 25	36 10 360 LOSS 0 653 510	GAIN 0 1303 613	0 50	31 10 310 LOSS 0 0	GAIN 0 0 1227	0 0 42	40 10 400 LOSS 0 0 857	GAIN 0 0 1031			3767	0 0 0	315 LAUN 0 9 0 LOSS GA 0 0 0 0	N 0 0	W/R 4 11 44 Loss	GAIN 0 0	0 0 6	FOY 11 10 110 LOSS 0 0	GAIN 0 0 147	0 0 0	6 11 66 LOSS 0 0	0 0 0						WOD 23 9 202 LOSS 204 0	GAIN 159 0	4 0 0	134 9 1049 LOSS 82 0	63 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	20.4 20.4 20.4 20.4 20.4	GAIN 15.9 40.7 24.5 40.7	32 25 0	360 LOSS 0 653 510	GAIN 0 1303 613 0	0 50 0	31 10 310 LOSS 0 0 1020	GAIN 0 0 1227	0 0 42 71	40 10 400 LOSS 0 0 857 1449	GAIN 0 0 1031 2891			3767	0 0 0 0	315 LAUN 0 9 0 LOSS GA 0 0 0 0 0 0	N 0 0 0 0 0	W/R 4 11 44 Loss	GAIN 0 0 0	0 0 6 0	FOY 11 10 110 LOSS 0 0 122 0	GAIN 0 0 147 0	0 0 0	6 11 66 LOSS 0 0 0	0 0 0 0					10 0 0 0	23 9 202 LOSS 204 0 0	GAIN 159 0 0	4 0 0	134 9 1049 LOSS 82 0 0	63 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	20.4 20.4 20.4 20.4 20.4 35.7	GAIN 15.9 40.7 24.5 40.7 102.0	32 25 0 0	36 10 360 LOSS 0 653 510 0	GAIN 0 1303 613 0	0 50 0 0	31 10 310 LOSS 0 0 1020 0	GAIN 0 0 1227 0	0 0 42 71 0	40 10 400 LOSS 0 0 857 1449	GAIN 0 0 1031 2891 0			3767	0 0 0 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 0	GAIN 0 0 0 0	0 0 6 0	FOY 11 10 110 LOSS 0 0 122 0	GAIN 0 0 147 0	0 0 0 0	66 LOSS 0 0 0 0	0 0 0 0					10 0 0 0 0	WOD 23 9 202 LOSS 204 0 0	GAIN 159 0 0 0	4 0 0 0 0 0	134 9 1049 LOSS 82 0 0	63 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	20.4 20.4 20.4 20.4 20.4 35.7 24.1	15.9 40.7 24.5 40.7 102.0 4.5	32 25 0 0	36 10 360 LOSS 0 653 510 0	GAIN 0 1303 613 0 0	0 50 0 0	31 10 310 LOSS 0 0 1020 0	GAIN 0 0 1227 0 0	0 0 42 71 0	400 400 LOSS 0 0 857 1449 0	GAIN 0 0 1031 2891 0			3767	0 0 0 0 0 0 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 0 0	GAIN 0 0 0 0 0	0 6 0 0 40	FOY 11 10 110 LOSS 0 0 122 0 0 962	GAIN 0 0 147 0 0	0 0 0 0 0 20	66 LOSS 0 0 0 0 0	0 0 0 0 0 0					10 0 0 0 0 0 0	WOD 23 9 202 LOSS 204 0 0 0	GAIN 159 0 0 0	20	134 9 1049 LOSS 82 0 0 0	63 0 0 0 0
ROOM USE 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 20.4 35.7 24.1 3.1	15.9 40.7 24.5 40.7 102.0 4.5 0.6	32 25 0 0 0 303	360 LOSS 0 653 510 0 0 930	GAIN 0 1303 613 0 0 0	0 50 0 0 0 260	31 10 310 LOSS 0 0 1020 0 0 0 798	GAIN 0 0 1227 0 0 0	0 0 42 71 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880	GAIN 0 0 1031 2891 0 0			3767	0 0 0 0 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0 44	W/R 4 11 44 LOSS 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0	0 6 0 0 40 64	FOY 11 10 110 LOSS 0 0 122 0 0 962 196	GAIN 0 0 147 0	0 0 0 0 0 20 46	6 11 66 LOSS 0 0 0 0 0 0 481 141	0 0 0 0 0 0 90 27					10 0 0 0 0 0 0 0 0	WOD 23 9 202 LOSS 204 0 0	GAIN 159 0 0 0	20 0	134 9 1049 LOSS 82 0 0 0 0 481	63 0 0 0 0 0 90
ROOM USE 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 20.4 35.7 24.1	15.9 40.7 24.5 40.7 102.0 4.5	32 25 0 0	36 10 360 LOSS 0 653 510 0	GAIN 0 1303 613 0 0	0 50 0 0	31 10 310 LOSS 0 0 1020 0	GAIN 0 0 1227 0 0	0 0 42 71 0	400 400 LOSS 0 0 857 1449 0	GAIN 0 0 1031 2891 0			3767	0 0 0 0 0 0 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 0 0	GAIN 0 0 0 0 0	0 6 0 0 40	FOY 11 10 110 LOSS 0 0 122 0 0 962	GAIN 0 0 147 0 0	0 0 0 0 0 20	66 LOSS 0 0 0 0 0	0 0 0 0 0 0					10 0 0 0 0 0 0	WOD 23 9 202 LOSS 204 0 0 0	GAIN 159 0 0 0	20	134 9 1049 LOSS 82 0 0 0	63 0 0 0 0 0
ROOM USE 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 35.7 24.1 3.1 3.6 1.4	15.9 40.7 24.5 40.7 102.0 4.5 0.6	32 25 0 0 0 303	360 LOSS 0 653 510 0 0 930	GAIN 0 1303 613 0 0 0	0 50 0 0 0 260	31 10 310 LOSS 0 0 1020 0 0 0 798	GAIN 0 0 1227 0 0 0	0 0 42 71 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880	GAIN 0 0 1031 2891 0 0			3767	0 0 0 0 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 44 0	W/R 4 11 44 LOSS 0 0 0 0 0 0 135	GAIN 0 0 0 0 0 0	0 6 0 0 40 64	FOY 11 10 110 LOSS 0 0 122 0 0 962 196	GAIN 0 0 147 0 0 181 37	0 0 0 0 0 20 46	6 11 66 LOSS 0 0 0 0 0 0 481 141	0 0 0 0 0 0 90 27					10 0 0 0 0 0 0 0 0	23 9 202 LOSS 204 0 0 0	GAIN 159 0 0 0	20 0	134 9 1049 LOSS 82 0 0 0 0 481	63 0 0 0 0 0 90
ROOM USE 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 35.7 24.1 3.1 3.6 1.4	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7	32 25 0 0 0 303 0	360 LOSS 0 653 510 0 0 930	GAIN 0 1303 613 0 0 175	0 50 0 0 0 260	31 10 310 LOSS 0 0 1020 0 0 0 798	GAIN 0 0 1227 0 0 0 150	0 0 42 71 0 0 287	40 10 400 LOSS 0 0 857 1449 0 0 880 0	GAIN 0 0 1031 2891 0 0 165 0			33767	0 0 0 0 0 0 0 0 0 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 44 0	W/R 4 11 44 LOSS 0 0 0 0 0 0 135	GAIN 0 0 0 0 0 0 25	0 6 0 0 40 64	FOY 11 10 110 LOSS 0 0 122 0 0 962 196	GAIN 0 0 147 0 0 181 37	0 0 0 0 0 20 46	6 11 66 LOSS 0 0 0 0 0 481 141	0 0 0 0 0 0 90 27					10 0 0 0 0 0 128	23 9 202 LOSS 204 0 0 0 0 0 463	GAIN 159 0 0 0 0 0	20 0 130	134 9 1049 LOSS 82 0 0 0 0 481 0 471	63 0 0 0 0 0 90 0
ROOM USE 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 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7	32 25 0 0 0 303 0	360 LOSS 0 653 510 0 0 930 0	GAIN 0 1303 613 0 0 175 0	0 50 0 0 0 260 0	31 10 310 LOSS 0 0 1020 0 0 0 798 0	GAIN 0 0 1227 0 0 150 0	0 0 42 71 0 0 287 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0	GAIN 0 1031 2891 0 0 165 0			33767	0 0 0 0 0 0 0 0	315 AUN 0 9 0 LOSS GA 0 0 0 0 0 0 0 0 0 104 51	N 0 0 0 0 0 0 0 44 0 0	W/R 4 11 44 LOSS 0 0 0 1 135	GAIN 0 0 0 0 0 0 25 0	0 0 6 0 0 40 64 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0	GAIN 0 0 147 0 0 181 37 0	0 0 0 0 0 20 46 0	6 11 66 LOSS 0 0 0 0 0 481 141 0 0	0 0 0 0 0 90 27 0					10 0 0 0 0 0 128 0	23 9 202 LOSS 204 0 0 0 0 0 463 0	GAIN 159 0 0 0 0 0 0	20 0 130 0	134 9 1049 LOSS 82 0 0 0 481 0 471	63 0 0 0 0 90 0 88 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 GR EXPOSED CLG NO ATTIC EXPOSED CLG	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0	36 10 360 LOSS 0 653 510 0 0 930 0	GAIN 0 1303 613 0 0 175 0	0 50 0 0 0 260 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0	GAIN 0 0 1227 0 0 150 0	0 0 42 71 0 0 287 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0	GAIN 0 1031 2891 0 0 165 0			33767	0 0 0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 104 51	N 0 0 0 0 0 0 44 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 0 0	GAIN 0 0 0 0 0 0 25 0	0 0 6 0 0 40 64 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0	GAIN 0 0 147 0 181 37 0	0 0 0 0 0 20 46 0	6 11 66 LOSS 0 0 0 0 0 481 141 0 0 0	0 0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 202 LOSS 204 0 0 0 0 0 463 0	6 GAIN 159 0 0 0 0 0 0	20 0 130 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0	63 0 0 0 0 90 0 88 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 LG EXPOSED LGG BASEMENTICRAWL HEAT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0	36 10 360 LOSS 0 653 510 0 0 930 0 0 37	GAIN 0 1303 613 0 0 175 0	0 50 0 0 0 260 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0	GAIN 0 0 1227 0 0 150 0	0 0 42 71 0 0 287 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0	GAIN 0 1031 2891 0 0 165 0			33767	0 0 0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 104 51	N 0 0 0 0 0 0 44 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 0 0	GAIN 0 0 0 0 0 0 25 0	0 0 6 0 0 40 64 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0	GAIN 0 0 147 0 181 37 0	0 0 0 0 0 20 46 0	6 11 66 LOSS 0 0 0 0 0 481 141 0 0 0	0 0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 202 LOSS 204 0 0 0 0 463 0 0 0 0	6 GAIN 159 0 0 0 0 0 0	20 0 130 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0	63 0 0 0 0 90 0 88 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 SLAB ON GRADE HEAT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0	GAIN 0 1303 613 0 0 175 0	0 50 0 0 0 260 0	31 10 310 LOSS 0 0 1020 0 0 0 798 0 0 0	GAIN 0 0 1227 0 0 150 0	0 0 42 71 0 0 287 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0 0 0	GAIN 0 1031 2891 0 0 165 0			33767	0 0 0 0 0 0 0 0 0 72	315 LAUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 0 0	N 0 0 0 0 0 0 44 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 25 0	0 6 0 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 0 0 0 0	GAIN 0 0 147 0 181 37 0	0 0 0 0 0 20 46 0	6 11 66 LOSS 0 0 0 0 481 141 0 0 0 0 0 0 0	0 0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	6 GAIN 159 0 0 0 0 0 0	20 0 130 0	134 9 1049 LOSS 82 0 0 0 0 481 0 471 0 0 3934	63 0 0 0 0 90 0 88 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 EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 0 303 0 0	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0	GAIN 0 1303 613 0 0 175 0 18	0 50 0 0 0 260 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0 0	GAIN 0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0 0	GAIN 0 1031 2891 0 0 165 0 0			33767	0 0 0 0 0 0 0 0 0 72	315 LAUN 0 9 0 .OSS GA 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 0 0 0 104 51 0 0 104	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 25 0 0	0 6 0 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 0	GAIN 0 0 147 0 0 181 37 0 0 0	0 0 0 0 0 20 46 0	6 11 66 LOSS 0 0 0 0 481 141 0 0	0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 202 LOSS 204 0 0 0 0 463 0 0 0 0	6 GAIN 159 0 0 0 0 0 87 0	20 0 130 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 0 90 0 88 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 BASEMENTI/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0 0 0	GAIN 0 0 1227 0 0 150 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 LOSS 0 0 857 1449 0 0 880 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 1031 2891 0 0 165 0				0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 104 51 0 0 104 51	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 135 0 0 135	GAIN 0 0 0 0 0 0 25 0	0 0 6 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 0 0	GAIN 0 0 147 0 181 37 0	0 0 0 0 0 20 46 0 0	6 11 66 LOSS 0 0 0 0 481 141 0 0 0 0	0 0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	6 GAIN 159 0 0 0 0 0 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 0 90 0 88 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 BSMT WALL ABOVE OR EXPOSED FLOOR EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GSIS SUB TOTAL HT GSIS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 18	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 0 0 0 0 798 0 0 0 0 0 1818	GAIN 0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0 0 0 0 0 3186	GAIN 0 1031 2891 0 0 165 0 0				0 0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 104 51 0 0 104 51 0 0 22	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 135 0 0 135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 25 0 0	0 6 0 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 1222 0 0 0 0 0 0 0 0 1281 0.32	GAIN 0 0 147 0 0 181 37 0 0 0	0 0 0 0 0 20 46 0	6 11 66 LOSS 0 0 0 0 481 141 0 0 0 0 0 0	0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	6 GAIN 159 0 0 0 0 0 87 0	20 0 130 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934 4968 0.88	63 0 0 0 0 90 0 88 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 CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 0 18 0	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 798 0 0 0 0	GAIN 0 1227 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	400 100 4000 LOSS 0 0 857 1449 0 0 880 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1031 2891 0 0 165 0 0 0				0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 0 104 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 135 0 0 135	GAIN 0 0 0 0 0 0 25 0 0 0	0 0 6 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 0 0 0	GAIN 0 0 147 0 0 181 37 0 0 0	0 0 0 0 0 20 46 0 0	6 11 66 LOSS 0 0 0 0 481 141 0 0 0 0	0 0 0 0 0 90 27 0 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	6 GAIN 159 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 0 90 0 88 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 EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS SAIR CHANGE HEAT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 18	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 0 0 0 0 798 0 0 0 0 0 1818	GAIN 0 0 1227 0 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0 0 0 0 0 3186	GAIN 0 1031 2891 0 0 165 0 0				0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 104 51 0 0 104 51 0 0 22	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 135 0 0 135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 25 0 0	0 0 6 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 1222 0 0 0 0 0 0 0 0 1281 0.32	GAIN 0 0 147 0 0 181 37 0 0 0	0 0 0 0 0 20 46 0 0	6 11 66 LOSS 0 0 0 0 481 141 0 0 0 0 0 0	0 0 0 0 0 90 27 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	6 GAIN 159 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 0 90 0 88 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 CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 0 18 0	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 0 0 0 0 798 0 0 0 0 0 1818	GAIN 0 1227 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 857 1449 0 0 880 0 0 0 0 0 3186	GAIN 0 0 1031 2891 0 0 165 0 0 0				0 0 0 0 0 0 0 0 72	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 0 104 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 135 0 0 135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 0 25 0 0 0	0 0 6 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 1222 0 0 0 0 0 0 0 0 1281 0.32	GAIN 0 0 147 0 0 181 37 0 0 0	0 0 0 0 0 20 46 0 0	6 11 66 LOSS 0 0 0 0 481 141 0 0 0 0 0 0	0 0 0 0 0 90 27 0 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	6 GAIN 159 0 0 0 0 0 87 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 471 0 0 3934	63 0 0 0 0 90 0 88 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 EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 0 18 0	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 0 798 0 0 0 0 0 1818	GAIN 0 1227 0 0 150 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 887 1449 0 0 880 0 0 0 0 3186	GAIN 0 0 1031 2891 0 0 165 0 0 0				0 0 0 0 0 0 0 0 72	315 LAUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 104 51 0.22 23	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 135 0 0 0.32 44	GAIN 0 0 0 0 0 0 25 0 0 0	0 0 6 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 1281 0.32 416	GAIN 0 0 147 0 0 181 37 0 0 0	0 0 0 0 0 20 46 0 0	6 111 66 LOSS 0 0 0 0 481 141 0 0 0 0 622	0 0 0 0 0 90 27 0 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	GAIN 159 0 0 0 0 0 87 0 0 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968	63 0 0 0 0 90 0 88 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 CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS	20.4 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 18 0	0 50 0 0 260 0 0	31 10 310 LOSS 0 0 1020 0 0 0 798 0 0 0 0 0 1818	GAIN 0 0 1227 0 0 0 150 0 0 1377 83	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 887 1449 0 0 880 0 0 0 0 3186	GAIN 0 0 1031 2891 0 0 165 0 0 0				0 0 0 0 0 0 0 0 72	315 LAUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 104 51 0.22 23	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 135 0 0 0.32 44	GAIN 0 0 0 0 0 0 25 0 0 0 0	0 0 6 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 1281 0.32 416	GAIN 0 0 147 0 181 37 0 0 0	0 0 0 0 0 20 46 0 0	6 111 66 LOSS 0 0 0 0 481 141 0 0 0 0 622	0 0 0 0 0 90 27 0 0 0 0					10 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	GAIN 159 0 0 0 0 0 87 0 0 0	20 0 130 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968	63 0 0 0 0 90 0 88 0 0 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 GR 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 GAIN DUCT GAIN DUCT GAIN	20.4 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16 0	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 175 0 0 18 0	0 50 0 0 0 260 0 0 0	31 10 310 LOSS 0 0 1020 0 0 0 798 0 0 0 0 0 1818	GAIN 0 0 1227 0 0 0 150 0 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 887 1449 0 0 880 0 0 0 0 3186	GAIN 0 0 1031 2891 0 0 165 0 0 0 0				0 0 0 0 0 0 0 0 72 0	315 AUN 0 9 0 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 104 51 0 0 0 104 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 135 0 0 0.32 44	GAIN 0 0 0 0 0 0 25 0 0 0 0 25 25 2	0 0 6 0 0 40 64 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 1281 0.32 416	GAIN 0 0 147 0 0 181 37 0 0 0 365	0 0 0 0 0 20 46 0 0 0	6 111 66 LOSS 0 0 0 0 481 141 0 0 0 0 622	0 0 0 0 0 90 27 0 0 0 0					10 0 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	G GAIN 159 0 0 0 0 0 87 0 0	20 0 130 0 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 0 90 0 88 0 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 EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.4 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16 0	36 10 360 LOSS 0 653 510 0 0 0 37 0 0 2130 0.32 692	GAIN 0 1303 613 0 0 1775 0 0 18 0 0 1277 0 0 0	0 50 0 0 0 260 0 0 0	31 10 310 LOSS 0 0 1020 0 0 0 0 0 0 0 0 0 1818 0.32 590	GAIN 0 0 1227 0 0 0 150 0 0 0 1377 83 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 0 8857 1449 0 0 0 0 0 0 0 0 3186 0 0.32	GAIN 0 0 1031 2891 0 0 165 0 0 0 4087				0 0 0 0 0 0 0 0 72 0	315 LAUN 0 9 0 LOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 0 104 51 0 0 0 47:	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 135 0 0 0 135 0 0 0 14 15 0 0 0 14 15 0 0 0 15 0 0 0 15 0 0 0 0 15 0 0 0 0	GAIN 0 0 0 0 0 25 0 0 0 25 0 0 0	0 0 6 0 0 40 64 0 0 0	FOY 11 10 LOSS 0 0 122 0 0 0 0 1281 0.32 416 0	GAIN 0 0 147 0 0 181 37 0 0 0 365	0 0 0 0 0 20 46 0 0 0	6 11 66 LOSS 0 0 0 0 0 481 141 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 0	0 0 0 0 0 90 27 0 0 0 0					10 0 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2044 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G GAIN 159 0 0 0 0 0 87 0 0	20 0 130 0 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 0 0 90 0 88 0 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 CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT COSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT LOSS DUCT GAIN	20.4 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	15.9 40.7 24.5 40.7 102.0 4.5 0.6 0.7 0.7	32 25 0 0 303 0 0 16 0	36 10 360 LOSS 0 653 510 0 0 930 0 0 37 0 0 2130	GAIN 0 1303 613 0 0 1775 0 0 18 0 0 1277 0 0 0	0 50 0 0 0 260 0 0 0	31 10 310 LOSS 0 0 1020 0 0 0 798 0 0 0 0 0 1818	GAIN 0 0 1227 0 0 0 150 0 0 0 1377 83 0 0	0 0 42 71 0 0 287 0 0 0	40 10 400 LOSS 0 0 8857 1449 0 0 0 0 0 0 0 0 3186 0 0.32 1035 0	GAIN 0 0 1031 2891 0 0 165 0 0 0 4087				0 0 0 0 0 0 0 0 72 0	315 LAUN 0 9 0 LOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 104 51 0 0 0 0 104 51 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 0 0 0 0 0 0 0	W/R 4 11 44 LOSS 0 0 0 0 0 135 0 0 135 0 0 0.32 44	GAIN 0 0 0 0 0 25 0 0 0 25 0 0 0	0 0 6 0 0 40 64 0 0 0	FOY 11 10 110 LOSS 0 0 122 0 0 962 196 0 0 0 1281 0.32 416	GAIN 0 0 147 0 0 181 37 0 0 0 365	0 0 0 0 0 20 46 0 0 0	6 111 66 LOSS 0 0 0 0 481 141 0 0 0 0 622	0 0 0 0 0 90 27 0 0 0 0					10 0 0 0 0 0 0 128 0	WOD 23 9 2022 LOSS 2004 0 0 0 0 463 0 0 0	G GAIN 159 0 0 0 0 0 87 0 0	20 0 130 0 0 0	134 9 1049 LOSS 82 0 0 0 481 0 0 471 0 0 3934 4968 0.88 4964	63 0 0 0 0 90 0 88 0 0 0

TOTAL HEAT GAIN BTU/H:

30955 TONS: 2.58

LOSS DUE TO VENTILATION LOAD BTU/H: 2286

STRUCTURAL HEAT LOSS: 33974

TOTAL COMBINED HEAT LOSS BTU/H: 36261

Mahal Oxinche.



SITE NAME: LECCO RIDGE BUILDER: GREENPARK HOMES TYPE: IVY 11 DATE: Jan-17 GFA: 2256 LO# 71719 furnace pressure 0.6 HEATING CFM 890 COOLING CFM 890 0.05 #AMANA AFUE = 96 % furnace filter TOTAL HEAT LOSS 33,974 TOTAL HEAT GAIN 30,525 a/c coil pressure 0.2 AMEC960402BNA INPUT (BTU/H) = 40,000 AIR FLOW RATE CFM 26.2 AIR FLOW RATE CFM 29.16 available pressure **FAN SPEED** OUTPUT (BTU/H) = 38,400 for s/a & r/a 0.35 LOW **RUN COUNT** 4th 3rd 2nd 1st **MEDLOW** DESIGN CFM = 890 Bas 0 0 9 4 plenum pressure s/a 0.18 r/a pressure 0.17 MEDIUM CFM @ .6 " E.S.P. S/A MEDIUM HIGH R/A 0 0 4 max s/a dif press. loss 0.03 r/a grille press. Loss 0.02 All S/A diffusers 4"x10" unless noted otherwise on layout. min adjusted pressure s/a 0.15 adjusted pressure r/a 0.15 HIGH 890 TEMPERATURE RISE 40 °F All S/A runs 5"Ø unless noted otherwise on layout. RUN# 6 8 10 12 13 14 15 16 17 18 19 20 21 22 23 24 ROOM NAME MBR ENS WIC BED-4 BATH BED-2 BED-3 MBR OFF DIN KT/FM KT/FM KT/FM LAUN W/R FOY MUD BAS BAS BAS BAS RM LOSS MBH. 1.37 0.86 0.11 2.25 0.75 2.01 2.39 1.37 2.82 2.41 1.41 1.41 1.41 0.13 0.18 1.70 0.82 2.65 2.65 2.65 2.65 CFM PER RUN HEAT 59 36 23 3 20 53 63 36 74 63 37 37 37 3 5 44 22 69 69 69 69 RM GAIN MBH. 2.06 1.07 0.06 2.83 0.54 3.77 3.19 2.06 3.52 2.51 2.08 2.08 2.08 0.68 0.03 0.50 0.16 0.32 0.32 0.32 0.32 CFM PER RUN COOLING 60 31 2 83 16 110 93 60 103 73 61 61 61 20 15 5 9 9 9 9 ADJUSTED PRESSURE 0.17 0.17 0.17 0.16 0.17 0.15 0.16 0.17 0.16 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 ACTUAL DUCT LGH 57 20 20 64 50 52 53 10 40 13 32 48 26 26 45 27 16 16 EQUIVALENT LENGTH 130 150 190 180 170 170 140 150 150 170 130 130 150 130 160 140 150 130 130 140 180 TOTAL EFFECTIVE LENGTH 150 156 234 205 163 237 170 234 220 182 156 203 140 190 163 202 178 184 166 146 207 ADJUSTED PRESSURE 0.11 0.07 0.1 0.11 0.07 0.07 0.09 0.11 0.08 0.12 0.09 0.11 0.09 0.1 0.11 0.07 0.09 0.1 0.12 0.08 0.08 ROUND DUCT SIZE 5 4 5 5 5 5 4 4 5 4 6 6 5 6 5 5 4 5 5 5 HEATING VELOCITY (ft/min) 34 433 229 321 463 272 272 323 252 507 507 507 507 264 264 270 264 377 272 34 57 COOLING VELOCITY (ft/min 441 356 23 609 184 561 474 441 525 536 448 448 448 229 11 110 57 66 66 66 66 **OUTLET GRILL SIZE** 3X10 3X10 3X10 3X10 3X10 4X10 4X10 3X10 4X10 3X10 TRUNK В В D D В В В

RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH **EQUIVALENT LENGTH** TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min COOLING VELOCITY (ft/min) **OUTLET GRILL SIZE** TRUNK

RECEIVED TOWN OF MILTON MAY 5, 2017 17-5337 BUILDING DIVISION

SUPPLY AIR TRUNK SIZE																	RETURN A	IR TRUN	K SIZE					
	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY		TRUNK	STATIC	ROUND	RECT			VELOCITY
1	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A	270	0.07	8.9	10	x	8	486		TRUNK G	0	0.00	0	0	Х	8	0	TRUNK O	0	0.06	0	0	Х	8	0
TRUNK B	215	0.07	8.2	8	х	8	484		TRUNK H	0	0.00	0	0	Х	8	0	TRUNK P	0	0.06	0	0	х	8	0
TRUNK C	696	0.07	12.7	18	х	8	696		TRUNK I	0	0.00	0	0	х	. 8	0	TRUNK Q	0	0.06	0	0	х	8	0
TRUNK D	195	0.11	7	6	Х	8	585		TRUNK J	0	0.00	0	0	Х	8	0	TRUNK R	0	0.06	0	0	Х	8	0
TRUNK E	0	0.00	0	0	Х	8	0		TRUNK K	0	0.00	0	0	х	8	0	TRUNK S	0	0.06	0	0	х	8	0
TRUNK F	0	0.00	0	0	X	8	0		TRUNK L	0	0.00	0	0	X	88	0	TRUNK T	0	0.06	0	0	Х	8	0
																	TRUNK U	0	0.06	0	0	Х	8	0
																	TRUNK V	0	0.06	0	0	Х	8	0
RETURN AIR #	1	2	3	4	5	6		_	_	_	_	_	_	_	_	BR	TRUNK W	0	0.06	0	0	Х	8	0
1	0	0	0	0		0	0	0	0	0	0	0	0	0	0		TRUNK X	890	0.06	14.4	24	х	8	668
AIR VOLUME	135	135	85	85	175	155	0	0	0	0	0	0	0	0	0	120	TRUNK Y	240	0.06	8.8	10	х	8	432
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	0	0.06	0	0	х	8	.0
ACTUAL DUCT LGH.	18	12	50	62	18	45	1	1	1	1	1	1	1	1	1	14	DROP	890	0.06	14.4	24	X	10	534
EQUIVALENT LENGTH	175	215	215	190	135	185	0	0	0	0	Ü	0	0	. 0	Ü	135								
TOTAL EFFECTIVE LH	193	227	265	252	153	230	1	. 1	. 1	1	1	1	1	1	1	149	l							
ADJUSTED PRESSURE	0.08	0.07	0.06	0.06	0.10	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.10								
ROUND DUCT SIZE	6.6	6.8	6	6	6.9	7.5	0	0	0	0	0	0	0	0	0	6								
INLET GRILL SIZE	8	8	8	8	8	8	0	0	0	Ü	0	0	0	0	0	8								
l	X	X	X	X	X	X	Х	X	X	Х	Х	X	X	Х	Х	X								
INLET GRILL SIZE	14	14	14	14	14	14	00	0	0	0	0	00	0	0	00	14	l							



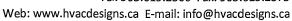
TYPE: SITE NAME: IVY 11

LECCO RIDGE

LO# 71719

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	169.6	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil.	Capacity	86	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplement	tal Capacity	83.6	cfm
d) Solid Fuel (including fireplaces)			VA		
e) No Combustion Appliances		PRINCIPAL EXHAUS	ST FAN CAPACITY		
		Model:	VANEE 40H+	Location:	BSMT
HEATING SYSTEM		86.0	cfm 3.0 sone		✓ HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUS	ST HEAT LOSS CALCULATION		% LOSS
<u> </u>		86.0 CFM	ΔT *F X 72 F X	FACTOR 1.08	% LOSS X 0.34
Electric Space Heat		SUPPLEMENTAL FA	ANS	NUTONE	
		Location	Model	cfm I	-IVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	✓ 0.3 ✓ 0.3
I Type a) or b) appliance only, no solid fuel		BATH	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplace) e)	W/R	QTXEN050C	50	✓ 0.3
III Any Type c) appliance	,,,	HEAT RECOVERY V Model:	ENTILATOR VANEE 40H+		9.32.3.11.
		86	cfm high	37	cfm low
IV Type I, or II with electric space heat		66	% Sensible Efficiency		✓ HVI Approved
Other: Type I, II or IV no forced air			@ 32 deg F (0 deg C)		
		LOCATION OF INST	ALLATION	DEC	DEIVED
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	Lot:			CEIVED OF MILTON
1 Exhaust only/Forced Air System				MAY	/ 5, 2017
2 HRV with Ducting/Forced Air System		Township		P	7-5337
		Address		BUILDIN	IG DIVISION
HRV Simplified/connected to forced air system		Roll#		TOWN	E MIL TON
4 HRV with Ducting/non forced air system		BUILDER:		NG AND DE	F MILTON VELOPMENT
Part 6 Design		Name:	BUILDING: REV	.DING PERN /IEWED	IIT: 17-5337
TOTAL VENTILATION CAPACITY	0.00.0.0(4)		SCOTT SHERR		MAY 9, 2017
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	PLANS EXAMINER	of a normit nor or	DATE
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	_ cfm	City:	Neither the issuance inspections by the To full responsibility for o	wn of Milton reliv	es the owner from
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u>	_ cfm	Telephone #:	the Ontario Building (Code Act and the	Ontario Building
Kitchen & Bathrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	_ cfm	INSTALLING CONT	RACTOR statutes and regulation By-laws of the Region	ns of the Provinc of Halton and T	e on Ontario, own of Milton
Other Rooms5 @ 10.6 cfm53.0	_ cfm	Name:			
Table 9.32.3.A. TOTAL 169.6	_ cfm	Address:		·	
		City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		Fax #:	
1 Bedroom 31.8 cfm		DESIGNER CERTIFI	CATION		
2 Bedroom 47.7 cfm		I hereby certify that the	nis ventilation system has been de Ontario Building Code.	lesigned	
3 Bedroom 63.6 cfm		Name:	HVAC Designs Ltd.		
4 Bedroom 79.5 cfm		Signature:	Make	l Opporte .	
5 Bedroom 95.4 cfm		HRAI#		001820	
More than 5 - Part 6 TOTAL 79.5 cfm		Date:		January-17	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM Q	UALIFIED IN THE AP	PROPRIATE CATEGORY AS A	N UTHER DESIGNER" UNDER DIVISION	U, 3.2.5 OF THE BUI	LUING CODE.





HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: IVY 11		BUILDER: GREENPARK HOME	S
SFQT: 2256	LO# 71719	SITE: LECCO RIDGE	
DESIGN ASSUMPTIONS			-
HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	0	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72.4
BUILDING DATA			
ATTACHMENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Υ
AIR CHANGES PER HOUR:	. 3	ASSUMED (Y/N):	Υ
AIR TIGHTNESS CATEGORY:	TIGHT	ASSUMED (Y/N):	Υ
WIND EXPOSURE:	UNSHELTERED	ASSUMED (Y/N):	Υ
HOUSE VOLUME (ft³):	30715.6	ASSUMED (Y/N):	Υ
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/	h/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.8 ft
LENGTH: 57.0 ft	WIDTH: 25.0 ft	EXPOSED PERIMETER:	134.0 ft

2012 OBC - COMPLIANCE PACKAGE			
Component		Compliance ENERG	Package YSTAR
		Nominal	
Ceiling with Attic Space Minimum RSI (R)-Value		50	
Ceiling Without Attic Space Minimum RSI (R)-Value		31	
Exposed Floor Minimum RSI (R)-Value		31	
Walls Above Grade Minimum RSI (R)-Value	20+3.6		
Basement Walls Minimum RSI (R)-Value	20		
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (F	R)-Value	-	
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	ıe	10	
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	RECEIVED	10	
Windows and Sliding Glass Doors Maximum U-Value	TOWN OF MILTON	ZONE 2	
Skylights Maximum U-Value	MAY 5, 2017	ZONE 2	
Space Heating Equipment Minimum AFUE	17-5337	0.95	
HRV Minimum Efficiency	BUILDING DIVISION	65%	
Domestic Hot Water Heater Minimum EF		90% TE	

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Stat	ion Description								
Province:	Ontario									
Region:	Milton									
	Site De	scription								
Soil Conductivity:	Normal co	onductivity: dry dand, loam, clay								
Water Table: Normal (7-10 m, 23-33 ft)										
	Foundation	Dimensions								
Floor Length (m):	17.4									
Floor Width (m):	7.6									
Exposed Perimeter (m):	40.8									
Wall Height (m):	2.7									
Depth Below Grade (m):	2.07	Insulation Configuration								
Window Area (m²):	1.3	Promoter and the extrement of the state of t								
Door Area (m²):	1.9									
	Radia	nt Slab								
Heated Fraction of the Slab:	0									
Fluid Temperature (°C):	33									
	Design	Months								
Heating Month	1	·								
	Foundat	ion Loads								
Heating Load (Watts):		1153								

TYPE: IVY 11 **LO#** 71719

RECEIVED TOWN OF MILTON MAY 5, 2017 17-5337 BUILDING DIVISION



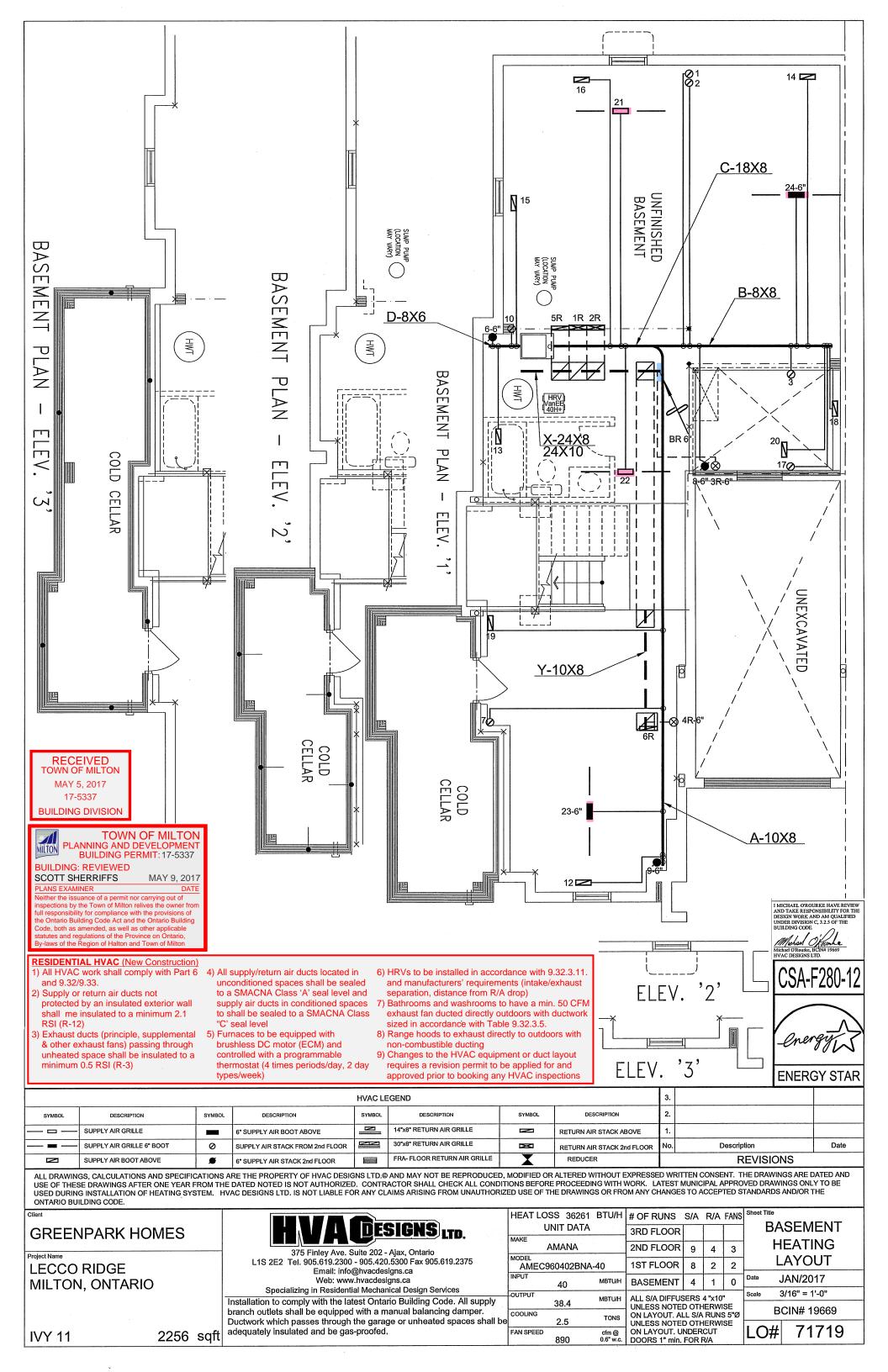
Air Infiltration Residential Load Calculator

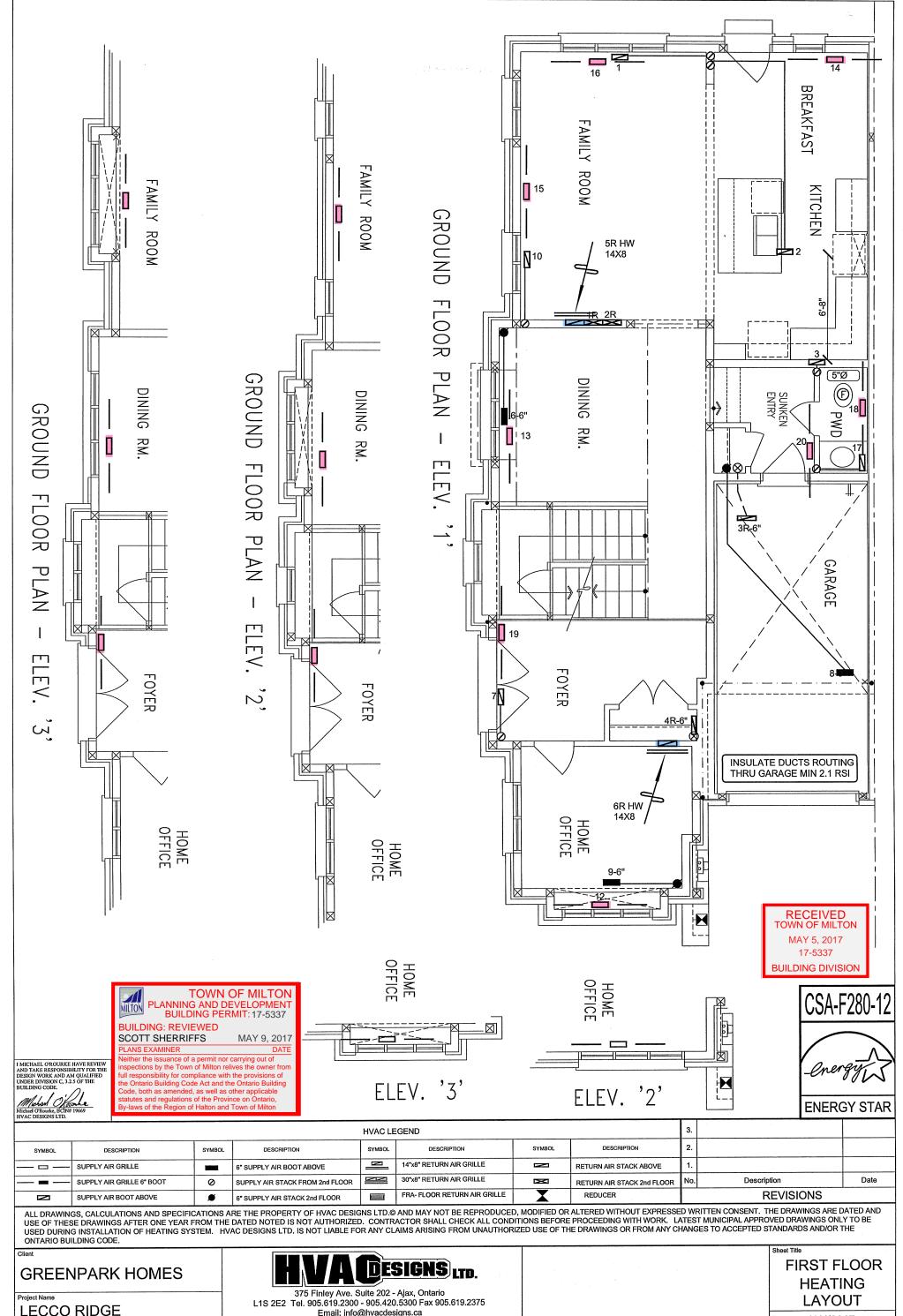
Supplemental tool for CAN/CSA-F280

Weather St	tation D	es	cript	ion								
Province:	On	tari	o									
Region:	Mi	tor	1									
Weather Station Location:	Ор	en t	flat te	rrain, į	grass							
Anemometer height (m):	10											
Loca	al Shield	ing	3									
Building Site:	Sul	url	ban, fo	orest								
Walls:	Ve	y h	eavy									
Flue:	He	avy										
Highest Ceiling Height (m):	Highest Ceiling Height (m): 6.34											
Building Configuration												
Type:	Sei	ni										
Number of Stories:	Tw	0										
Foundation:	Ful											
House Volume (m³):	869	8.6										
Air Leaka	age/Ven	tila	ation	1								
Air Tightness Type:	Ene	rgy	/ Star	Attach	ed (3.0	OACH)						
Custom BDT Data:	ELA	. @	10 Pa	١.		974.3 cm ²						
	3.	00			ACH @ 50 Pa							
Mechanical Ventilation (L/s):		Tot	al Sup	ply	Total Exhaust							
			40.6			40.6						
F	lue Size											
Flue #:	#	L	#2	#3	#4							
Diameter (mm):	C		0	0	0							
Natural Ir	nfiltratio	n	Rate	S		ŗ						
Heating Air Leakage Rate (ACH/	/H):		0	.25	0	:						
Cooling Air Leakage Rate (ACH/	'H):		0									

TYPE: IVY 11 **LO#** 71719

RECEIVED TOWN OF MILTON MAY 5, 2017 17-5337 BUILDING DIVISION





LECCO RIDGE MILTON, ONTARIO 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.

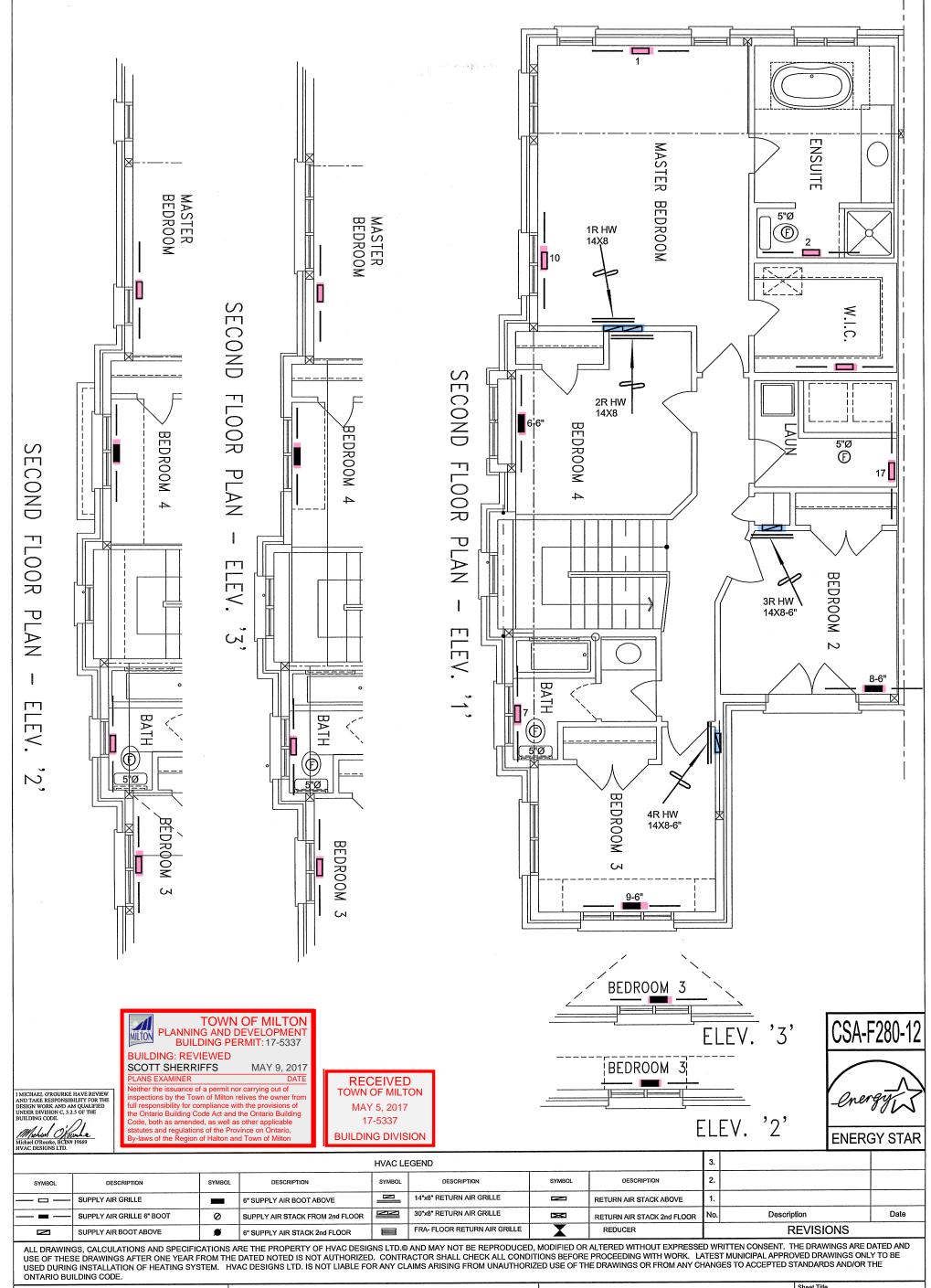
Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

JAN/2017 3/16" = 1'-0" BCIN# 19669

LO# 71719

IVY 11

2256 sqft



GREENPARK HOMES

LECCO RIDGE MILTON, ONTARIO

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.

Sheet Title SECOND FLOOR **HEATING** LAYOUT

JAN/2017 3/16" = 1'-0"

BCIN# 19669 71719

IVY 11

2256 sqft