

	SITE NAME:																		: Jan-1	7			WINT	TER NATURAL AIR C	HANGE RATE 0.2	68	HEAT LOSS	ΔT°F.	. 72			CSA-F2	80-12
	BUILDER:	GREE	VPARK	HOME	S		TYPE: IVY 6E								LO#	71717				SUMN	IER NATURAL AIR C	HANGE RATE 0.0	90	HEAT GAIN	ΔT °F	. 14		E	ENERGY	STAR			
	ROOM USE				MBR	П		ENS			WIC			BED-2			BED-3		BED-4			BAT	Н										
	EXP. WALL				40			9			0			9			39	14.4	10			6		1									
	CLG. HT.		- 1		9			9			9			9			10		9		l	9			*	i							
		FACTO	DRS															1			l												
	GRS.WALL AREA	Loss	GAIN		360			81			0			81			371		90			54				İ							
	GLAZING				LOSS 6	MIA		LOSS	GAIN		LOSS	GAIN		LOSS (GAIN		LOSS GAIN		LOSS	GAIN		Los	S GAII	v l									- 1
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	SOUTH		25.3	7	143	177	0	0	0	0	. 0	0	0	0	0	0	0 0	16	326	404	10	204		.	1							LTO	
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	EXPOSED FLOOR	2.3	0.5	0	0	0	0	0	0	0	0	0	126	294	57	12	28 5	20	47	9	12	28	5				onsibility for o						
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	SLAB ON GRADE HEAT LOSS	1			0			0			0			0			0		0			0					ooth as amend						
	SUBTOTAL HT LOSS				2336			578			104		l	1419			1910	1	846			506	3				s and regulations of the Region						
	SUB TOTAL HT GAIN				•	1985			670	1		52			1848		1544			579			353	3	1	by-laws	or the Regio	יון טורו	idilUII 8	nu 10	vvii UI IV	mitori	
	LEVEL FACTOR / MULTIPLIER			0.20	0.26		0.20	0.26		0.20	0.26		0.20	0.26		0.20	0.26	0.20	0.26		0.20	0.26	6		I								-
	AIR CHANGE HEAT LOSS				602			149		l	27		1	365			492		218		1	130)						R	ECI	EIVE	ED.	
	AIR CHANGE HEAT GAIN	ĺ				160			54			4			149		125			47			29	1		1						LTON	
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	DUCT GAIN					0			0			0			273		240	1		136			38	ł					M	AR 2	29, 20)17	
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	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 CLG EXPOSED CLG EXPOSED CLG SUBSEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	FACTO LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0	300 10 300 LOSS 0 0 571 428 0 0 0 770 0 0 0 0 0	0 1174 530 0 0 0 149 0 0				0 0 55 0 20 535 0 0	61 10 610 LOSS 0 0 1122 0 481 1641 0 0 0 0 3244	GAIN 0 0 2305 0 93 317 0 0				0 0 0 0 0 0 0 0 63 0	0 9 0 CLOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0	7 10 70 LOSS 0 0 163 0 0 0 190 0 0 0 0 0	0 0 202 0 0 0 37 0 0	14 0 0 40 146 0 0	200 10 2000 LOS 0 2866 0 0 0 962 448 0 0 0 0 1696	S GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0 0 6 0 0 0 150	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0	0 8 0 0 20 0 231 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 836 0 0 4228	0 0 202 0 0 93 0 162 0
	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 GAIN LEVEL FACTOR / MULTIPLIER	FACTO LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0	30 10 300 LOSS 0 571 428 0 0 0 770 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 530 0 0 0 149 0 0				0 0 55 0 20 535 0 0	610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43	GAIN 0 0 2305 0 93 317 0 0				0 0 0 0 0 0 0 0 63 0	0 9 0 LOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0	7 10 70 LOSS 0 0 163 0 0 0 190 0 0 0 0 0 353	0 0 202 0 0 0 37 0 0	14 0 0 40 146 0 0	200 10 2000 LOS 0 0 0 0 962 448 0 0 0 0 0 0	S GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0 0 6 0 0 0 150	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0	0 8 0 0 20 0 231 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 836 0 0 4228 5708	0 0 2022 0 0 93 0 162 0 0
	CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET 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 35.7 24.1 3.6 1.4 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0	300 10 300 LOSS 0 0 571 428 0 0 0 770 0 0 0 0 1770 0 0 0 0 0 0 1770 0 0 0	0 1174 530 0 0 0 149 0 0 0				0 0 55 0 20 535 0 0	610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43	GAIN 0 0 2305 0 93 317 0 0 0				0 0 0 0 0 0 0 0 63 0	0 9 0 LOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0	7 10 70 LOSS 0 0 163 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 202 0 0 0 37 0 0 0	14 0 0 40 146 0 0	200 100 2000 LOS 0 0 2866 0 0 0 0 0 0 0 0 0 16996 0 0 43 727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0 0 6 0 0 0 150	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0	0 8 0 0 20 0 231 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 0 483 0 0 4228 5708 0.79 5049	0 0 202 0 0 93 0 162 0
	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 SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	FACTC LOSS 20.4 20.4 20.4 20.4 35.7 24.1 3.6 1.4 2.3 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0	30 10 300 LOSS 0 571 428 0 0 0 770 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1174 530 0 0 0 149 0 0 0				0 0 55 0 20 535 0 0	610 610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43 1391	GAIN 0 0 2305 0 93 317 0 0 0				0 0 0 0 0 0 0 0 63 0	0 9 0 LOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0	7 10 70 LOSS 0 0 163 0 0 0 190 0 0 0 0 0 353	0 0 202 0 0 0 37 0 0 0	14 0 0 40 146 0 0	200 10 2000 LOS 0 0 0 0 962 448 0 0 0 0 0 0	S GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0 0 6 0 0 0 150	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0	0 8 0 0 20 0 231 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 836 0 0 4228 5708	0 0 2022 0 0 93 0 1622 0 0
	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 BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	FACTC LOSS 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0 0	300 10 300 LOSS 0 0 571 428 0 0 0 770 0 0 0 0 1770 0 0 0 0 0 0 1770 0 0 0	0 11774 530 0 0 0 149 0 0 0 0				0 0 55 0 20 535 0 0 0	610 610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43 1391	GAIN 0 0 0 2305 0 93 317 0 0 0 2716 219 0				0 0 0 0 0 0 0 0 63 0 22	0 9 0 CLOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0 0 0	7 10 70 LOSS 0 0 163 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 202 0 0 0 37 0 0 0 239	14 0 0 40 146 0 0 0	200 100 2000 LOS 0 0 2866 0 0 0 0 0 0 0 0 0 16996 0 0 43 727	S GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0 0 6 0 0 0 150 0 0	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0 0	0 8 0 0 20 0 231 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 0 483 0 0 4228 5708 0.79 5049	0 0 2022 0 0 93 0 162 0 0 0
	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 SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE	FACTC LOSS 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0	300 100 3000 LOSS 0 0 428 0 0 0 0 0 0 0 0 0 1770 0 0 0 0 0 0 1770 0 0 0	0 11774 5330 0 0 0 1449 0 0 0 0				0 0 55 0 20 535 0 0	610 610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43 1391	GAIN 0 0 0 2305 0 93 3117 0 0 0 27116 219 0 480				0 0 0 0 0 0 0 0 63 0	0 9 0 LOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0	7 10 70 LOSS 0 0 163 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 202 0 0 0 37 0 0 0 0 239	14 0 0 40 146 0 0	200 100 2000 LOS 0 0 2866 0 0 0 0 0 0 0 0 0 16996 0 0 43 727	S GAI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0 0 6 0 0 0 150	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0 0	0 8 0 0 20 0 231 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 836 0 0 4228 5708 0.79 5049	0 0 2022 0 0 93 0 162 0 0 0
	CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET 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 AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	FACTC LOSS 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0 0 0	300 100 3000 LOSS 0 0 5711 428 0 0 0 0 0 0 0 0 1770 0 0 0 0 0 0 0 0 0	0 11774 530 0 0 0 149 0 0 0 0				0 0 55 0 20 535 0 0 0	61 10 610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43 1391	GAIN 0 0 0 2305 0 93 317 0 0 0 2716 219 0				0 0 0 0 0 0 0 0 63 0 22	0 9 0 LOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0 0 0	7 10 70 LOSS 0 0 0 163 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 202 0 0 0 37 0 0 0 239	14 0 0 40 146 0 0 0	200 100 2000 LOS 0 0 0 0 0 0 0 0 16960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0					0 0 6 0 0 0 150 0 0	26 9 234 LOSS 0 0 0 122 0 0 0 543 0 0 0	0 0 251 0 0 105 0 0	0 8 0 0 20 0 231 0 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 0 4836 0 0 4228 5708 0.79 5049	0 0 2022 0 0 93 0 162 0 0 0
	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 SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE	FACTC LOSS 20.4 20.4 20.4 35.7 24.1 3.1 3.6 1.4 2.3 2.3	GAIN 16.3 41.9 25.3 41.9 102.2 4.7 0.6 0.7 0.7 1.2 0.5	0 28 21 0 0 0 251 0 0 0 0	300 100 3000 LOSS 0 0 5711 428 0 0 0 0 0 0 0 0 0 1770 0 0 0 0 0 1770 17	0 11774 5330 0 0 0 1449 0 0 0 0				0 0 55 0 20 535 0 0 0	610 610 LOSS 0 0 0 1122 0 481 1641 0 0 0 0 3244 0.43 1391	GAIN 0 0 0 2305 0 93 3117 0 0 0 27116 219 0 480				0 0 0 0 0 0 0 0 63 0 22	0 9 0 LOSS GAIN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 0 0 0 62 0 0 0 0	7 10 70 LOSS 0 0 163 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 202 0 0 0 37 0 0 0 0 239	14 0 0 40 146 0 0 0	200 100 2000 LOS 0 0 2866 0 0 0 0 0 0 0 0 0 16996 0 0 43 727	0					0 0 6 0 0 0 150 0 0	26 9 234 LOSS 0 0 122 0 0 543 0 0	0 0 251 0 0 105 0 0	0 8 0 0 20 0 231 0 0 0	129 9 930 LOSS 0 0 163 0 0 481 0 0 483 0 0 4228 5708 0.79 5049 0	0 0 2022 0 0 93 0 162 0 0 0

TOTAL HEAT GAIN BTU/H:

27801

TONS: 2.32

LOSS DUE TO VENTILATION LOAD BTU/H: 2286

STRUCTURAL HEAT LOSS: 31983

TOTAL COMBINED HEAT LOSS BTU/H: 34270

Mulated Office Lo. INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE



SITE NAME: LECCO RIDGE

BUILDER: GREENPARK HOMES							TYPE: IVY 6E					DATE: Jan-17			GFA: 2134				71717				
								furnace	pressure	0.6								LO#					
HEATING CFM	890			LING CFM				furr	ace filter	0.05							7	#AMAN	Α		AFUE =	96 %	
TOTAL HEAT LOSS				HEAT GAIN				a/c coil	pressure	0.2					-	MEC960	402BNA	40		INPUT	(BTU/H) =	40.000	
AIR FLOW RATE CFM	27.83	Α	IR FLOW	RATE CFM	32.53		а	vailable p	pressure							FAN	SPEED			OUTPUT	(BTU/H) =	38,400	
								for	s/a & r/a	0.35							LOW						
RUN COUNT	4th	3rd	2nd	1st	Bas											M	EDLOW			DESI	GN CFM =	890	
S/A	00	0	11	6	4		ple	num pre	ssure s/a	0.18	r/a	pressure	0.17			1	MEDIUM				CFM @	6 " E.S.P.	•
R/A	0	0	4	2	1		max	s/a dif pr	ess. loss	0.02	r/a grille pre	ss. Loss	0.02			MEDIL	JM HIGH						
	/A diffusers 4"x10" unless noted otherwise on layout.						min adju	isted pre	ssure s/a	0.16	adjusted pre	ssure r/a	0.15				HIGH	890	TI	EMPERAT	URE RISE	40	°F
All S/A runs 5"Ø unless note	ed otherv	vise on la	yout.																		•		•
RUN#	1	, 2	3	4	5	6	7	8	9	10	12	13		15	16	17	18	19		21	22	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	BED-2	BED-3	MBR	LIV	LIV		KT/FM	KT/FM	LAUN	W/R	FOY		BAS	BAS	BAS	BAS
RM LOSS MBH.	1.47	0.73	0.13	0.98	1.32	1.17	0.70	0.98	1.32	1.47	1.26	1.26		2.32	2.32	0.20	0.50	2.42		2.86	2.86	2.86	2.86
CFM PER RUN HEAT	41	20	4	27	37	33	19	27	37	41	35	35		65	65	5	14	67		79	79	79	79
RM GAIN MBH.	2.03	0.94	0.07	1.95	1.72	1.95	0.55	1.95	1.72	2.03	1.62	1.62		2.54	2.54	0.79	0.34	1.21		0.45	0.45	0.45	0.45
CFM PER RUN COOLING	66	31	2	64	56	63	18	64	56	66	53	53		83	83	26	11	39		15	15	15	15
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17		0.16	0.16	0.17	0.17	0.17		0.17	0.17	0.17	0.17
ACTUAL DUCT LGH.	62	64	48	47	33	22	23	49	33	55	19	8		46	43	43	25	32		40	46	11	16
EQUIVALENT LENGTH	150	160	160	160	130	180	190	170	130	160	140	190		160	160	160	150	170		190	190	140	170
TOTAL EFFECTIVE LENGTH	212	224	208	207	163	202	213	219	163	215	159	198		206	203	203	175	202		230	236	151	186
ADJUSTED PRESSURE	80.0	0.08	0.08	0.08	0.11	0.09	80.0	0.08	0.11	0.08	0.11	0.09		80.0	0.08	80.0	0.1	0.09		0.07	0.07	0.11	0.09
ROUND DUCT SIZE	5	4	4	5	4	5	4	5	4	5	5	5		6	6	4	4	5		6	6	5	5
HEATING VELOCITY (ft/min)	301	229	46	198	424	242	218	198	424	301	257	257		331	331	57	161	492		403	403	580	580
COOLING VELOCITY (ft/min)	485	356	23	470	642	463	207	470	642	485	389	389		423	423	298	126	286		76	76	110	110
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10		4X10	4X10	3X10	3X10	3X10		4X10	4X10	3X10	3X10
TRUNK	Α	A	В	В	С	В	С	В	С	Α	С	С		Α	Α	В	В	С		Α	В	С	С

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 MAR 29, 2017 IVY 6E 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
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A	311	0.07	9.4	10	X	8	560		TRUNK G	0	0.00	0	0	х	8	0	TRUNK O	0	0.06	0	0	х	8	0
TRUNK B	500	0.07	11.2	14	Х	8	643		TRUNK H	0	0.00	0	0	X	8	0	TRUNK P	0	0.06	0	0	Х	8	0
TRUNK C	388	0.08	9.8	12	X	8	582		TRUNK I	0	0.00	0	0	Х	8	0	TRUNK Q	0	0.06	0	0	Х	8	0
TRUNK D	0	0.00	0	0	Х	8	0		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	00		TRUNK L	0	0.00	0	0	Х	8	0	TRUNK T	0	0.06	0	0	Х	8	0
																	TRUNK U	0	0.06	0	0	Х	8	0
DETUDU AID #																	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
AIR VOLUME	166	0	0	0	0	455	ŭ	0	0	0	0	0	0	0	0		TRUNK X	890	0.06	14.4	24	Х	8	668
PLENUM PRESSURE	155	85 0.45	85	85	180	155	0.45	0.45	0	0.45	0	0	0	0	0	145	TRUNK Y	480	0.06	11.4	16	Х	8	540
ACTUAL DUCT LGH.	0.15 59	0.15	0.15 53	0.15 56	0.15 20	0.15 43	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	310	0.06	9.7	12	х	8	465
EQUIVALENT LENGTH	195	41 225	135	185	110	200		1	,	1	,	1	1	1	1	14	DROP	890	0.06	14.4	24	Х	10	534
TOTAL EFFECTIVE LH	254	266	188	241	130	243	4	1	1	1	4	4	4	0	4	135								
ADJUSTED PRESSURE	0.06	0.06	0.08	0.06	0.11	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.00	14.80	149								
ROUND DUCT SIZE	7.5	6	5.6	6	6.8	7.5	0	14.00	14.00	14.00	14.00	14.00	14.00	14.80	14.00	0.10								
INLET GRILL SIZE	8	8	8	8	8	8	ñ	. 0	n	0	ň	0	0	0	0	6.4 8								
	×	x	X	X	X	X	×	×	Y	Y	Y	Y	y	V	V	v								
INLET GRILL SIZE	14	14	14	14	14	14	ô	ô	0	ô	ô	ô	ô	ô	ô	14								



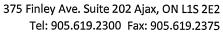
TYPE: SITE NAME: IVY 6E

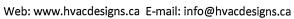
LECCO RIDGE

LO# 71717

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.32.3.1(SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5.
a) Direct vent (sealed combustion) only	Total Ventilation Capacity 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 Supplemental Capacity cfm
d) Solid Fuel (including fireplaces)	DRINGINAL TWILLIAM AND AND AND AND AND AND AND AND AND AND
e) No Combustion Appliances	PRINCIPAL EXHAUST FAN CAPACITY
	Model: VANEE 40H+ Location: BSMT
HEATING SYSTEM	86.0 cfm 3.0 sones
Forced Air Non Forced Air	PRINCIPAL EXHAUST HEAT LOSS CALCULATION CFM ΔT *F FACTOR % LOSS
Electric Space Heat	86.0 CFM X 72 F X 1.08 X 0.34
	SUPPLEMENTAL FANS NUTONE
HOUSE TYPE 9.32.1(2	Location Model cfm HVI Sones 2) ENS QTXEN050C 50 ✓ 0.3
Type a) or b) appliance only, no solid fuel	BATH QTXEN050C 50 ✓ 0.3
	W/R QTXEN050C 50 / 0.3
II Type I except with solid fuel (including fireplaces)	HEAT RECOVERY VENTILATOR 9.32.3.11.
III Any Type c) appliance	Model: VANEE 40H+ 86 cfm high 37 cfm low
IV Type I, or II with electric space heat	
Other: Type I, II or IV no forced air	66 % Sensible Efficiency HVI Approved @ 32 deg F (0 deg C)
	LOCATION OF INSTALLATION
SYSTEM DESIGN OPTIONS O.N.H.W.F	RECEIVED TOWN OF MILTON
1 Exhaust only/Forced Air System	MAR 29, 2017
2 HRV with Ducting/Forced Air System	Township Pli IVY 6E
HRV Simplified/connected to forced air system	Address BUILDING DIVISION
4 HRV with Ducting/non forced air system	Roll# TOWN OF MILTON
	BUILDER: GR PLANNING AND DEVELOPMENT IVY 6E MODEL
Part 6 Design	Name: BUILDING: REVIEWED
TOTAL VENTILATION CAPACITY 9.32.3.3(1	SCOTT SHERRIFFS APR 7, 2017 PLANS EXAMINER DATE
Basement + Master Bedroom 2 @ 21.2 cfm 42.4 cfm	Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relives the owner from
Other Bedrooms 3 @ 10.6 cfm 31.8 cfm	full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4 cfm	statutes and regulations of the Province on Ontario, INSTALLING CONTRACTOR By-laws of the Region of Halton and Town of Milton
Other Rooms 4 @ 10.6 cfm 42.4 cfm	Name:
Table 9.32.3.A. TOTAL <u>159.0</u> cfm	Address:
	City:
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1	Telephone #: Fax #:
1 Bedroom 31.8 cfm	
2 Bedroom 47.7 cfm	DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.
3 Bedroom 63.6 cfm	Name: HVAC Designs Ltd.
4 Bedroom 79.5 cfm	Signature: Michael Offinhe.
5 Bedroom 95.4 cfm	HRAI# 001820
More than 5 - Part 6 TOTAL 79.5 cfm I REVIEW AND TAKE RESPONBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN TH	Date: January-17 E APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3:2.5 OF THE BUILDING CODE.
INDIVIDUAL BCIN: 19669 Michael O'ROURKE	2000 - A CANADA CANADA CANADA CANADA CANADA DIVISION C, 3,2,8 OF THE BUILDING CODE.







HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: SFQT:	IVY 6E 2134	LO# 71717	BUILDER: GREENPARK HOME	S
SFQ1:	2134	LO# /1/1/	SITE: LECCO RIDGE	
DESIGN A	ASSUMPTIONS			
HEATING		°F	COOLING	°F
OUTDOO	R DESIGN TEMP.	0	OUTDOOR DESIGN TEMP.	86
INDOOR	DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	G DATA			
ATTACHN	ΛΕΝΤ:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:	EAST	ASSUMED (Y/N):	Υ
AIR CHAN	IGES PER HOUR:	3	ASSUMED (Y/N):	Υ
AIR TIGH	TNESS CATEGORY:	TIGHT	ASSUMED (Y/N):	Υ
WIND EX	POSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):	29041.0	ASSUMED (Y/N):	Υ
INTERNA	L SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/	/h/ft²): 1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDA ⁻	TION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	50.0 ft	WIDTH: 26.0 ft	EXPOSED PERIMETER:	129.0 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 (R)	-Value	-	
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	9	10	
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	2-2-0-0	10	
Windows and Sliding Glass Doors Maximum U-Value	RECEIVED TOWN OF MILTON	ZONE 2	
Skylights Maximum U-Value	MAR 29, 2017	ZONE 2	
Space Heating Equipment Minimum AFUE	IVY 6E	0.95	
HRV Minimum Efficiency	BUILDING DIVISION	65%	
Domestic Hot Water Heater Minimum EF	DOILD III CONTOINT	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	escription
Soil Conductivity:	Normal co	onductivity: dry dand, loam, clay
Water Table:	Normal (7	7-10 m, 23-33 ft)
	Foundation	n Dimensions
Floor Length (m):	15.2	
Floor Width (m):	7.9	
Exposed Perimeter (m):	39.3	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	1.3	
Door Area (m²):	1.9	
	Radia	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Design	Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		1239

TYPE: IVY 6E **LO#** 71717

RECEIVED TOWN OF MILTON MAR 29, 2017 IVY 6E BUILDING DIVISION



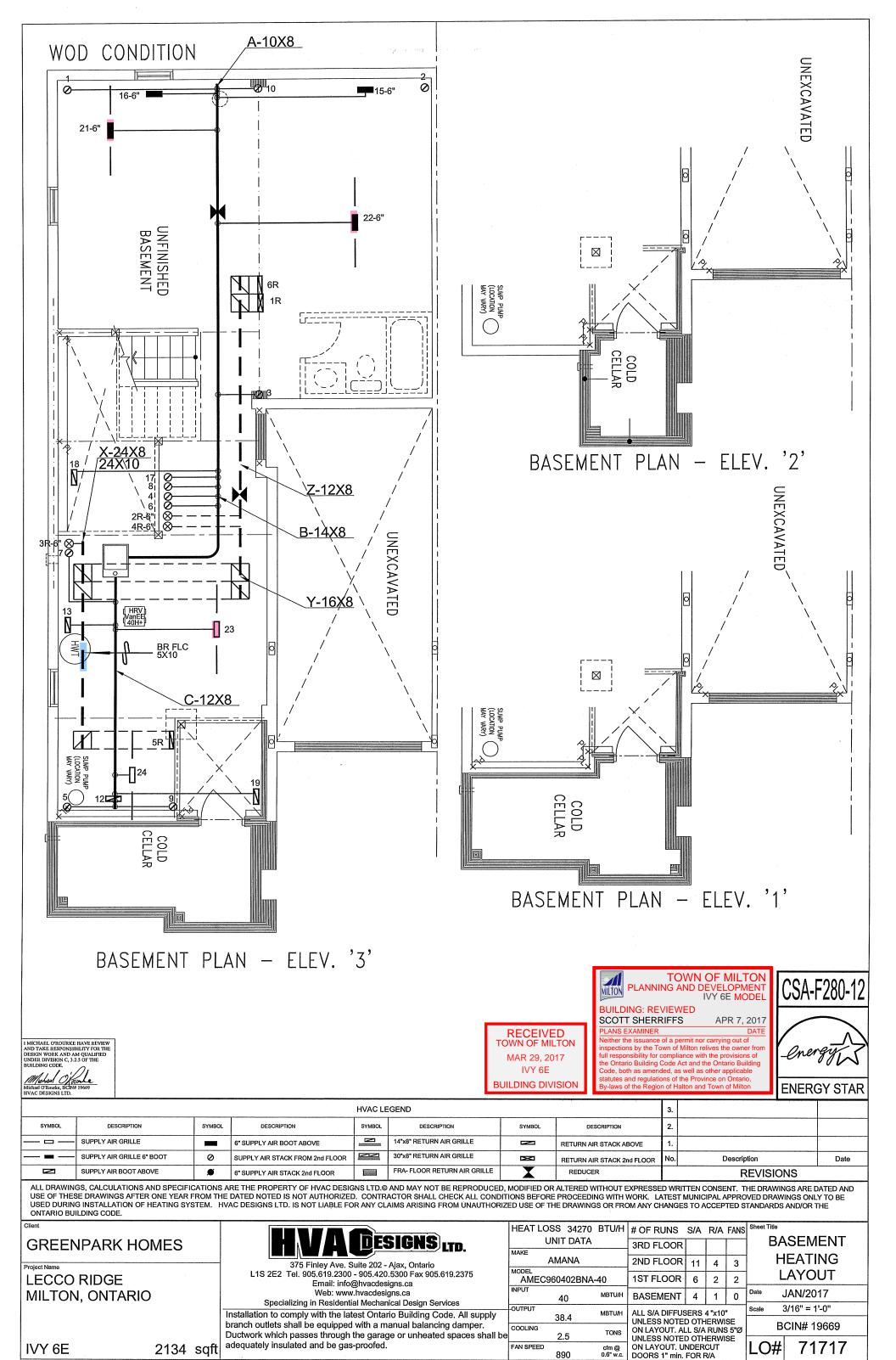
Air Infiltration Residential Load Calculator

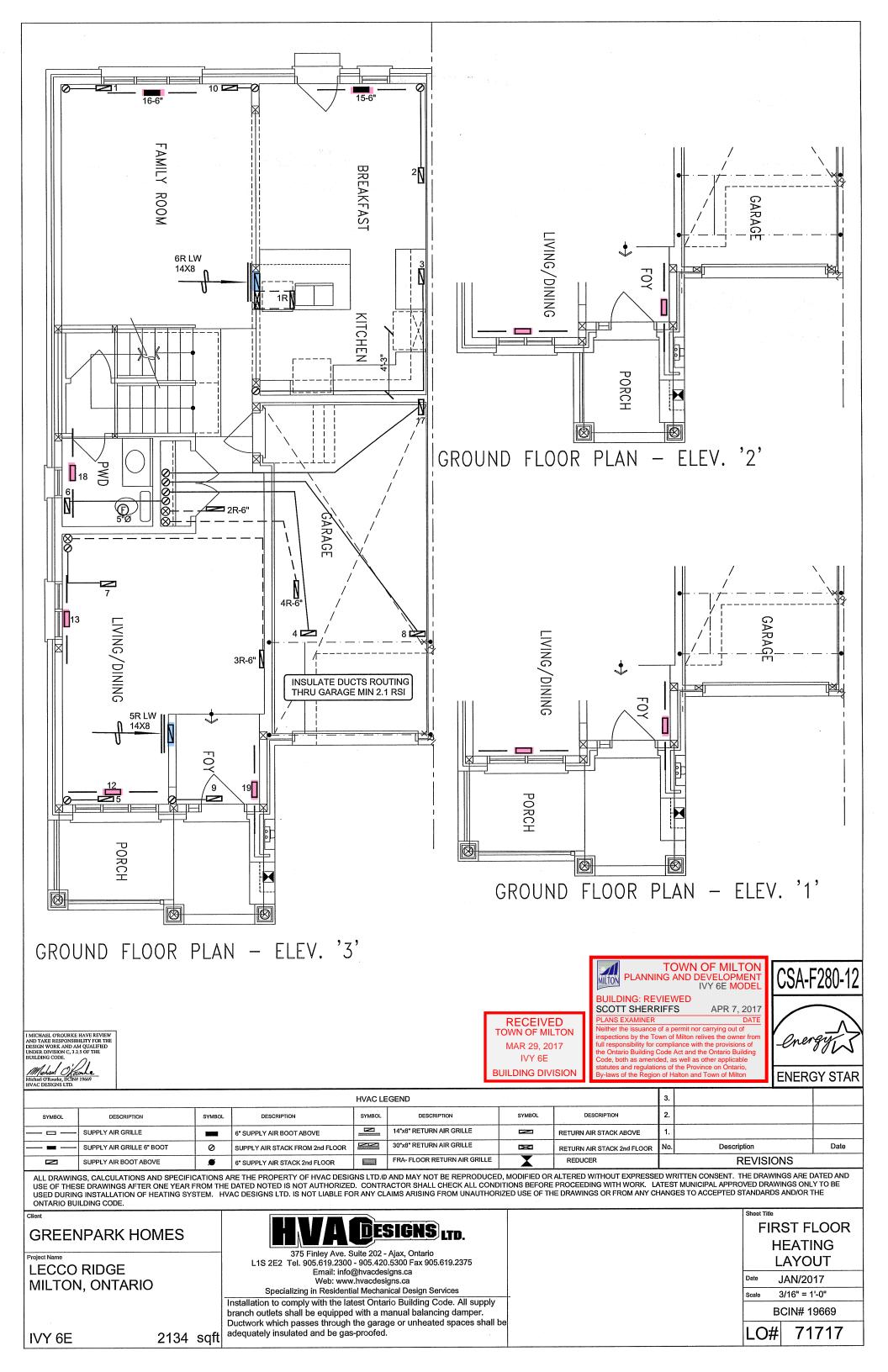
Supplemental tool for CAN/CSA-F280

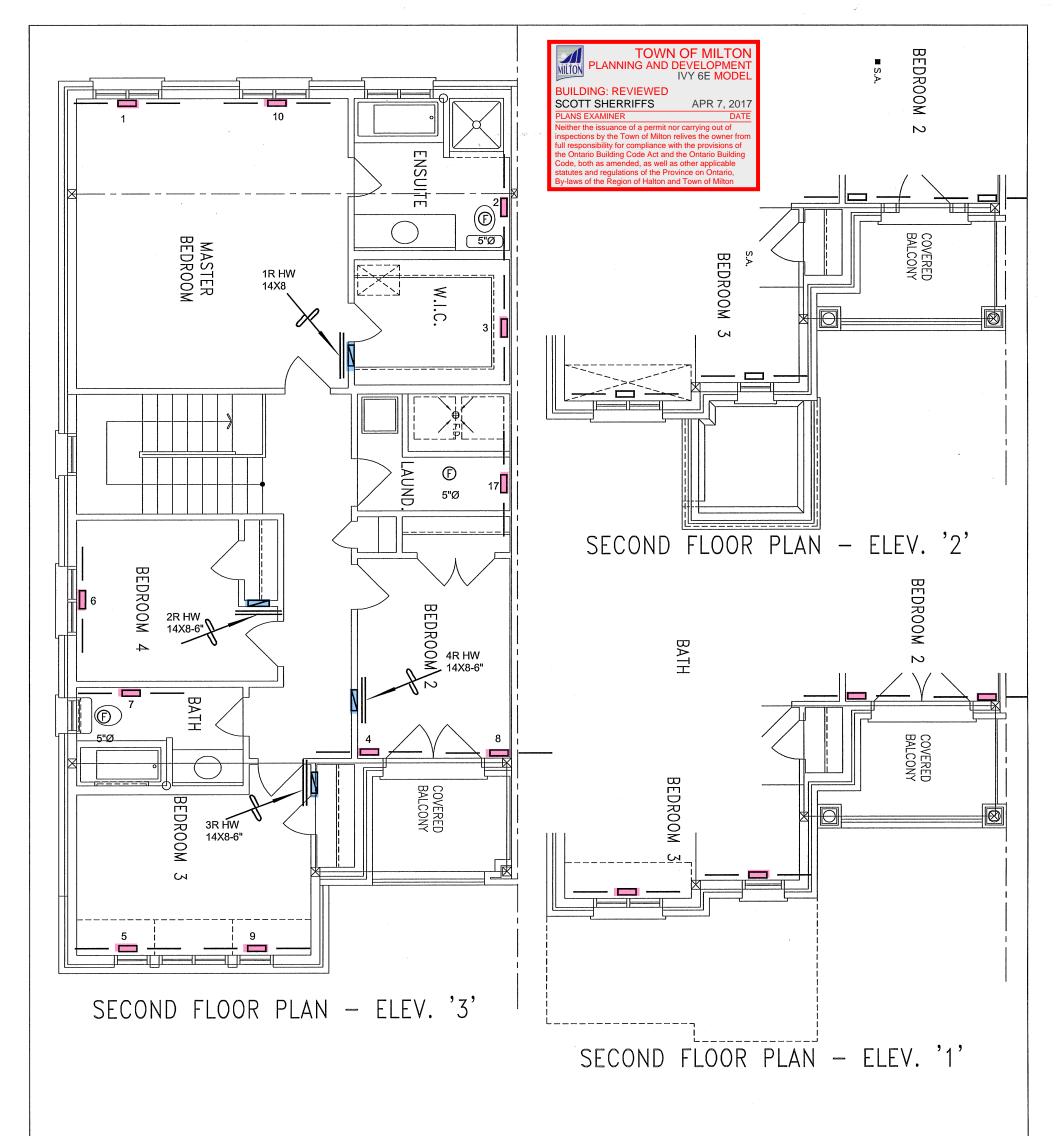
Weather Stati	on Des	cript	ion		
Province:	Onta	rio			
Region:	Milto	n			
Weather Station Location:	Open	flat te	rrain,	grass	
Anemometer height (m):	10				
Local S	hieldin	g			
Building Site:	Subu	rban, f	orest		
Walls:	Heav	y			
Flue:	Heav	y			
Highest Ceiling Height (m):	6.71				
Building Co	nfigur	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	822.3				
Air Leakage	/Venti	atio	า		
Air Tightness Type:	Energ	y Star	Attach	ed (3.0	ACH)
Custom BDT Data:	ELA @	0 10 P	э.		921.2 cm ²
	3.00				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		40.6			40.6
Flue	Size				
Flue #:	#1	#2	#3	#4	,
Diameter (mm):	0	0	0	0	
Natural Infil	tration	Rate	es		
Heating Air Leakage Rate (ACH/H)	:	C).26	8	
Cooling Air Leakage Rate (ACH/H)	:	C	0.09	0	

TYPE: IVY 6E **LO#** 71717

RECEIVED TOWN OF MILTON MAR 29, 2017 IVY 6E BUILDING DIVISION







RECEIVED TOWN OF MILTON MAR 29, 2017 IVY 6E

BUILDING DIVISION

I MICHAEL O'ROURKE HAVE REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE

RESIDENTIAL HVAC (New Construction) 1) All HVAC work shall comply with Part 6 4) All supply/return air ducts located in and 9.32/9.33.

- 2) Supply or return air ducts not protected by an insulated exterior wall shall me insulated to a minimum 2.1 RSI (R-12)
- 3) Exhaust ducts (principle, supplemental & other exhaust fans) passing through unheated space shall be insulated to a minimum 0.5 RSI (R-3)
- unconditioned spaces shall be sealed to a SMACNA Class 'A' seal level and supply air ducts in conditioned spaces to shall be sealed to a SMACNA Class
- 5) Furnaces to be equipped with brushless DC motor (ECM) and controlled with a programmable thermostat (4 times periods/day, 2 day types/week)

"C' seal level

- 6) HRVs to be installed in accordance with 9.32.3.11 and manufacturers' requirements (intake/exhaust separation, distance from R/A drop)
- Bathrooms and washrooms to have a min. 50 CFM exhaust fan ducted directly outdoors with ductwork sized in accordance with Table 9.32.3.5.
- 8) Range hoods to exhaust directly to outdoors with non-combustible ducting
- 9) Changes to the HVAC equipment or duct layout requires a revision permit to be applied for and approved prior to booking any HVAC inspections



ENERGY STAR

		3.								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	- SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	1350	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE 6" SUPPLY AIR STACK 2nd FLOOR			FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS		

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GREENPARK HOMES

Project Name

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 LO# 71717

IVY 6E

2134 sqft