



	SITE NAME: LECC	O RIDGE						wu	ID							DATE:	Feb-17			TIAIW	ED NA	TURAL A	ID CHANG	SERATE 0.307	HEAT	1000 41	Г°F. 72	100	CCA	-F280-12
	BUILDER: GREE			s			TYF		NIPER 12			G	FA: 2992			LO#								GERATE 0.105		GAIN A				GYSTAR
ſ	ROOM USE	T		MBR	Т		ENS	T	WIC			BED-2	1	BED-3			BED-4		BA		T	ENS-4						T		
	EXP. WALL			36			29		7			26		34			21		1			6	į							
	CLG. HT.			10			9		9			10		10			10		9	9		9	ļ							
	FACTO	ors																												
	GRS,WALL AREA LOSS	GAIN		360			261		63			260		340			210		10	98		54				-				
	GLAZING			Loss	GAIN	L	OSS GA	IN	LOSS	GAIN	1	LOSS G	AIN	Loss	GAIN	1	LOSS G	AIN	LO	SS GAII	J	LOSS	GAIN							
	NORTH 17.9	15.8	0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0 (0 (0	0	0	0					1		
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	SOUTH 17.9	24.8	0	0	0		661 91	6 9	161	223	0	0	0 39	696	966	45	803 1	115 (0 (0	11	196	272		A				MILT	
	WEST 17.9	41.4	34	607	1408	24	428 99	4 0	0	0	0	0	0 0	0	0	0	0	0 0	0 (0	0	0	0	l N	IITON PLA	MNIN			LOPME	
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	EXPOSED FLOOR 2.2 BASEMENT/CRAWL HEAT LOSS	0.4	0	0	0	0	0 0) 0	0 0	0	195	428 0	B3 0	0	0	0	0	0 1	20 26		0	0	0		ll responsibili					
	SLAB ON GRADE HEAT LOSS	- 1		0			0	ł	0		l	0		0			0		(0			e Ontario Bui					
.	SUBTOTAL HT LOSS	- 1		1882			1898		398			1681		2529			1494		97			0 392			ode, both as a tutes and re					
	SUB TOTAL HT GAIN				1783		21	54	330	298			166	2029	3238			327	31	853	.	332	335		atutes and re /-laws of the					
- 1	LEVEL FACTOR / MULTIPLIER	I	0.20			0.20			20 0.27	200	0.20			0.27	0200	0.20			20 0.:			0.27	000			109.011				
	AIR CHANGE HEAT LOSS	- 1		514			519	"	109			459		691			408	"	26		"	107						DEC	IVED	
	AIR CHANGE HEAT GAIN				120		14	5		20	1		79		218			89		57			23						F MILT	
	DUCTLOSS	- 1		0			0		0		1	214		0			0		12			0					10	VVIN O	r WILL	JIN
	DUCT GAIN	- 1			0		0			0		2	18		0			0		91			0					MAR 2	9, 2017	•
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1	TOTAL HT GAIN x 1.3 BTU/H				3997		298	89		414	<u> </u>	3	112		5705		3(052		130	1		465							
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	EXP. WALL	- 1		26			48	İ	78	•	1			8			28		1								19		176	-
	CLG. HT.	- 1		10			10	ł	10		1			9					1											
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		ORS							10					,			10		1						4,				10	
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		GAIN	0	260	GAIN 0	ι	480		780 LOSS	GAIN 0			17	72	GAIN 269	11	280 LOSS G	AIN 74 1	18 LO	30 SS GAI						est s	10 181	S GAIN	114	S GAIN
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	GLAZING NORTH 17.9 EAST 17.9 SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS 24.1 NET EXPOSED WALL 2.6 NET EXPOSED BSMT WALL ABOVE GR 3.3	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6	0 0 46 0 0 0 214	260 LOSS 0 0 821 0 0 0 560	0 0 1139 0 0	20 37 30 0 0 0 0 393	480 LOSS GA 357 31 661 155 536 74 0 0 0 0 0 0 1028 19	17 0 33 0 43 43 9 90 0 0 0 0 19 64	780 LOSS 0 0 0 0 7 839 3 1660 0 0 0 0	0 0 1164 3852 0 3 3 3 3 4 0			0 0 0 0 55	72 LOSS 303 0 0 0 0 0 144	269 0 0 0 0 0 28 0	11 0 0 0 0 20 249 0	280 LOSS G 196 1 0 0 0 0 481 9 652 1	74 1 0 0 0 1 0 0 0 0 93 2 26 13 0 0	18 LO 0 17 0 (6 28 0 (0 0 (8 0 48 334 35 0 (0	30 SS GAI 79 158 0 0 86 396 0 0 0 0 31 93 51 68							10 181 LOS 0 0 0 0 0 0 0 0 0 0 20 481	0 0 0 0 0 93 81	1144 LOS 9 161 0 0 0 0 0 0 0 0 20 481 0 0	S GAIN 1 143 0 0 0 0 0 1 93 0 2 341
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	GLAZING NORTH 17.9 EAST 17.9 SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS 24.1 NET EXPOSED WALL 2.6 NET EXPOSED BSMT WALL ABOVE GR 3.3	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6	0 0 46 0 0 0 214	260 LOSS 0 0 821 0 0 0 560	0 0 1139 0 0 0 108 0	20 37 30 0 0 0 0 393	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 1028 19 0 0 28 1:	7 00 33 00 3 43 9 00 0 00 0 00 0 04 3 43	780 LOSS 0 0 0 7 839 3 1660 0 0 0 6 50 0 0 0	0 0 1164 3852 0 3 3 3 3 4 0			0 0 0 0 55	72 LOSS 303 0 0 0 0 0 144	269 0 0 0 0 0 28 0	11 0 0 0 0 20 249 0	280 LOSS G 196 1 0 0 0 481 9 652 1 0 0	74 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 LO 0 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 SS GAI 79 158 0 0 86 396 0 0 0 0 31 93 51 68 0 0							100 181 LOS: 0 0 0 0 0 0 0 0 0 20 481 161 420 0 0 0	0 0 0 0 0 93 81	1144 LOS 9 161 0 0 0 0 0 0 0 0 20 481 0 0 528 1763	S GAIN 1 143 0 0 0 0 0 1 93 0 2 341
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	GLAZING NORTH 17.9 EAST SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS NET EXPOSED WALL 2.6 NET EXPOSED WALL EXPOSED CLG 1.4 NO ATTIC EXPOSED CLG EXPOSED FLOOR EXPOSED FLOOR 2.2 BASEMENT/CRAWL HEAT LOSS	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0	260 LOSS 0 0 821 0 0 560 0	0 0 1139 0 0 0 108 0	20 37 30 0 0 0 393 0 20 0	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 0 1028 19 0 0 0 28 1: 0 0 0 0	17 00 33 00 33 42 0 93 0 0 0 0 0 0 0 0 0 0 4 31	780 LOSS 0 0 0 7 839 3 1660 0 0 0 0 0 0 6 50 0 0 0	0 0 1164 3852 0 324 0 25			0 0 0 0 55 0 215	72 LOSS 303 0 0 0 0 144 0 296 0	269 0 0 0 0 0 28 0 147	11 0 0 0 0 20 249 0 0 0	280 LOSS G 196 1 0 0 0 481 9 652 1 0 0 0 0	74 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 LO 0 17 0 0 0 6 28 0 0 0 0 48 0 48 0 0 0 0 0 0 0 0	SS GAI 79 158 0 0 86 396 0 0 0 0 31 93 51 68 0 0 0 0 0 0 0 0							10 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0	1144- LOS 9 161 0 0 0 0 0 0 0 0 0 20 481 0 0 528 1766 0 0	S GAIN 143 0 0 0 0 1 93 0 2 341 0 0 7
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	GLAZING NORTH 17.9 EAST SOUTH 17.9 WEST 17.9 WEST 17.9 WEST 17.9 SKYLT. 30.6 DOORS 24.1 NET EXPOSED WALL EXPOSED WALL NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0	260 LOSS 0 0 0 821 0 0 0 560 0 0 0 0	0 0 1139 0 0 0 108 0 0 0	20 37 30 0 0 0 393 0 20 0	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 0 0 0 0 0 0 0 0 28 1- 0 0 0 0 0 2609	7 0 333 0 33 43 3 93 0 0 0 0 0 0 0 0 4 31 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 60 50 0 0 0 0 4223	0 0 1164 3852 0 324 0 25 0			0 0 0 0 55 0 215 0	72 LOSS 303 0 0 0 0 144 0 296 0 0 0 744	269 0 0 0 0 0 28 0 147 0	11 0 0 0 0 20 249 0 0 0	280 LOSS G 196 1 0 0 0 0 481 9 652 1 0 0 0 0 0 1329	74 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	18 LO 0 17 0 (0 6 28 0 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SS GAI 79 156 0 0 86 396 0 0 0 0 81 93 51 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							100 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0	1144-LOS 9 1661 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5528 1766 0 0 0 0 0 0 5777	S GAIN 143 0 0 0 1 93 0 2 341 0 0 7
	GLAZING NORTH 17.9 EAST SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS NET EXPOSED WALL 2.6 NET EXPOSED WALL 2.6 NO ATTIC EXPOSED CLG EXPOSED FLOOR 2.2 EXPOSED FLOOR 2.2 BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0	260 LOSS 0 0 821 0 0 560 0 0 0 0 1381	0 0 1139 0 0 0 108 0 0 0	20 37 30 0 0 0 393 0 20 0	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 0 0 1028 19 0 0 0 288 1. 0 0 0 0 0 2609 281 0.45	7 0 33 0 0 13 4' 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 40 1675 0 0 0 6 50 0 0 0 0 0 4223	0 0 1164 3852 0 324 0 25 0			0 0 0 0 55 0 215 0	72 LOSS 303 0 0 0 0 144 0 296 0 0 0 744	269 0 0 0 0 0 28 0 147 0	11 0 0 0 0 20 249 0 0 0	280 LOSS G 196 1 0 0 0 481 9 652 1 0 0 1329 3 0.45 603	74 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	18 LOO 0 17 CO 0 10 CO 0 10 CO 0 10 CO 0 CO 0 CO 0	SS GAI 79 156 0 0 86 396 0 0 0 0 81 93 51 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							100 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0	1144 LOS 9 161 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 528 1766 0 0 0 0 5775 818	S GAIN 143 0 0 0 1 93 0 2 341 0 0 7
	GLAZING NORTH 17.9 EAST 17.9 SOUTH 17.9 WEST 17.9 WEST 17.9 SKYLT. 30.6 DOORS 24.1 NET EXPOSED WALL 2.6 NET EXPOSED BANT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED LOOR 2.2 BASEMENTICRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0	260 LOSS 0 0 821 0 0 560 0 0 0 0 1381	0 0 1139 0 0 0 108 0 0 0	20 37 30 0 0 0 393 0 20 0	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 0 0 1028 19 0	7 0 33 0 0 13 4' 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 40 1675 0 0 0 6 50 0 0 0 0 0 4223	0 0 1164 3852 0 0 324 0 25 0 0			0 0 0 0 55 0 215 0	72 LOSS 303 0 0 0 0 144 0 296 0 0 0 744	269 0 0 0 0 28 0 147 0	11 0 0 0 0 20 249 0 0 0	280 LOSS G 196 1 0 0 0 481 9 652 1 0 0 0 1329 3 0.45 603	74 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 LOO 0 17 CO 0 10 CO 0 10 CO 0 10 CO 0 CO 0 CO 0	300 SSS GAIA							100 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0	1144 LOS 9 161 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 528 1766 0 0 0 0 5775 818	S GAIN 143 0 0 0 0 1 93 0 2 341 0 0 7 1 576
	GLAZING NORTH 17.9 EAST 17.9 SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS NET EXPOSED WALL 2.6 NET EXPOSED WALL 2.6 NO ATTIC EXPOSED CLG EXPOSED FLOOR EXPOSED FLOOR SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0	260 LOSS 0 0 821 0 0 0 560 0 0 0 1381 0.45 626	0 0 1139 0 0 0 108 0 0 0	20 37 30 0 0 0 393 0 20 0	480 LOSS GA 357 31 6661 15: 536 74 0 0 0 0 0 1028 19 0 0 228 1: 0 0 0 0 0 2609 280 0.45 1183	17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 400 1675 0 0 0 0 0 4223 30 0.45 1916	0 0 1164 3852 0 0 324 0 25 0 0			0 0 0 0 55 0 215 0	72 LOSS 303 0 0 0 0 0 144 0 296 0 0 0 744	269 0 0 0 0 28 0 147 0	11 0 0 0 0 20 249 0 0 0	280 LOSS G 196 1 0 0 0 481 9 652 1 0 0 0 1329 3 0.45 603	74 1 0 0 1 0	18 LOO 0 17 CO 10	30 SS GAI 79 158 0 0 36 39 0 0 0 0 31 933 51 68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							100 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0 0	1144 LOS 9 161 0 0 0 0 0 0 0 0 0 0 0 0 528 176: 0 0 0 577: 818: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 143 0 0 0 0 0 1 93 0 0 2 341 0 0 0 7 7 1 576 0 4 51 0 0
	GLAZING NORTH 17.9 EAST SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS NET EXPOSED WALL 2.6 NO ATTIC EXPOSED CLG EXPOSED FLOOR EXPOSED FLOOR EXPOSED FLOOR SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE 240	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0	260 LOSS 0 0 0 821 0 0 0 560 0 0 0 0 1381 0 0.45 626 0 0	0 0 1139 0 0 0 108 0 0 0 0 0 0	20 37 30 0 0 0 393 0 20 0	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 1028 19 0	17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 60 1675 0 0 0 0 0 0 0 4223 30 0.45 1916	0 0 1164 3852 0 0 324 0 0 0 5365			0 0 0 0 55 0 215 0	72 LOSS 303 0 0 0 0 0 144 0 296 0 0 0 744	269 0 0 0 0 28 0 147 0 0	11 0 0 0 0 20 249 0 0 0	280 LOSS G 196 1 0 0 0 481 9 652 1 0 0 0 1329 3 0.45 603	74	18 LOO 0 17 CO 10	30 30 30 30 30 30 30 30 30 30 30 30 30 3							100 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0 0	1144 LOS 9 161 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 528 1766 0 0 0 0 5775 818	S GAIN 143 0 0 0 0 1 93 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	GLAZING NORTH 17.9 EAST 17.9 SOUTH 17.9 WEST 17.9 SKYLT. 30.6 SKYLT. 30.6 NET EXPOSED WALL 2.6 NET EXPOSED CLG EXPOSED CLG TO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0 0	260 LOSS 0 0 0 821 0 0 0 0 0 0 0 0 0 1381 0 0.45 626 0 0	0 0 1139 0 0 0 108 0 0 0 0	20 37 30 0 0 0 0 393 0 20 0 0	480 LOSS GA 31367 31 661 15: 536 74 0 0 0 0 0 0 1028 19 0 0 0 288 1: 0 0 0 0 0 2609 280 0.45 1183 18	17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 40 1675 0 0 0 0 0 0 4223 30 0.45 1916	0 0 1164 3852 0 324 0 25 0 0			0 0 0 0 0 555 0 215 0 0	72 LOSS 303 0 0 0 0 0 144 0 296 0 0 0 744 0 0.27 203 0	269 0 0 0 0 28 0 147 0 0	11 0 0 0 0 220 249 0 0 0 0	280 LOSS G 196 1 0 0 0 0 481 9 652 1 0 0 0 1329 3 0.45 603	74	18 LO 17 LO 18 LO 18 LO 19 LO 19 LO 10 LO	30 30 30 30 30 30 30 30 30 30 30 30 30 3							10	0 0 0 0 0 93 81 0 0 0	1144 LOSS 9 1661 0 0 0 0 0 0 0 0 0 20 481 0 0 0 577 818 0.50 0.90 819	S GAIN 143 0 0 0 93 2 341 0 0 7 1 576 0 4 51
	GLAZING NORTH 17.9 EAST SOUTH 17.9 WEST 17.9 SKYLT. 30.6 DOORS NET EXPOSED WALL 2.6 NO ATTIC EXPOSED CLG EXPOSED FLOOR EXPOSED FLOOR EXPOSED FLOOR SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE 240	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7	0 0 46 0 0 0 214 0 0 0	260 LOSS 0 0 821 0 0 0 560 0 0 0 1381 0.45 626 0 0	0 0 1139 0 0 0 108 0 0 0 0 0 0	20 37 30 0 0 0 0 393 0 20 0 0	480 LOSS GA 357 31 661 15: 536 74 0 0 0 0 1028 19 0	77 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	780 LOSS 0 0 0 7 839 3 1660 0 0 0 60 1675 0 0 0 0 0 0 0 4223 30 0.45 1916	0 0 1164 3852 0 0 324 0 0 0 5365			0 0 0 0 0 555 0 215 0 0	72 LOSS 303 0 0 0 0 0 144 0 296 0 0 0 744	269 0 0 0 0 28 0 147 0 0	11 0 0 0 0 220 249 0 0 0 0	280 LOSS G 196 1 0 0 0 481 5 652 1 0 0 0 0 1329 3 0.45 603	74	18 LOO 177 LOO	30 30 30 30 30 30 30 30 30 30 30 30 30 3							100 1811 LOS: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 93 81 0 0 0	1144 LOS 9 161 0 0 0 0 0 0 0 0 0 0 0 0 528 176: 0 0 0 577: 818: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S GAIN 143 0 0 0 93 2 341 0 0 7 1 576 0 4 51

TOTAL HEAT GAIN BTU/H:

41350

TONS: 3.45

LOSS DUE TO VENTILATION LOAD BTU/H: 2354

STRUCTURAL HEAT LOSS: 48640

TOTAL COMBINED HEAT LOSS BTU/H: 50994

Michael Oxfunde.



		: LECCO : GREENI		OMES				TYPE:	WUP JUNIPER	R 12			DATE:	Feb-17			GFA:	2992	LO#	72389		7 Sept. 1	
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM RUN COUNT SIA R/A All S/A diffusers 4"x10" unl	48,640 27.06 4th 0 0 less note	3rd 0 0 d otherwis	TOTAL HAIR FLOW F	DLING CFM HEAT GAIN RATE CFM 1st 8 3 out.	40,895		ple max	fun a/c coil vailable foi enum pre s/a dif p	pressure nace filter pressure pressure r s/a & r/a essure s/a ress. loss essure s/a	0.6 0.05 0.2 0.35 0.18 0.02 0.16		r/a grille pre usted pre		0.17 0.02 0.15			MI I		~*AMAN/ 80 1316 0 1389	A :	INPUŢ OUTPUT DES	AFUE = 96.0 °C (BTU/H) = 80,00 °C (BTU/H) = 76,80 °C (BTU/H) = 131 °C (CFM @ 6 °E S	0 0 6 P.
All S/A runs 5"Ø unless no 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	1 MBR 1.20 32 2.00 64 0.17 44 110 154 0.11 5 235 470 3X10 D	2 ENS 1.21 33 1.49 48 0.17 54 170 224 0.08 4 379 551 3X10 C	3 WIC 0.51 14 0.41 13 0.17 58 180 238 0.07 4 161 149 3X10 B	4 BED-2 2.35 64 3.11 100 0.16 87 140 227 0.07 6 326 510 4X10 A	5 BED-3 1.61 44 2.85 92 0.16 84 160 244 0.07 6 224 469 4X10 A	6 BED-4 0.95 26 1.53 49 0.17 62 180 242 0.07 5 191 360 3X10 B	7 BATH 1.37 37 1.30 42 0.17 82 150 232 0.07 4 424 482 3X10 A	8 ENS 1.21 33 1.49 48 0.17 42 150 192 0.09 4 379 551 3X10 D	9 BED-3 1.61 44 2.85 92 0.16 71 190 261 0.06 6 224 469 4X10 B	10 MBR 1.20 32 2.00 64 0.17 32 180 212 0.08 5 235 470 3X10 D	11 ENS-4 0.50 13 0.47 15 0.17 44 150 194 0.09 4 149 172 3X10 C	12 OFF 1.90 51 2.40 77 0.17 62 180 242 0.07 6 260 393 4X10 B	13 OFF 1.90 51 2.40 77 0.17 68 150 218 0.08 5 374 565 3X10 A	14 KT/FM 2.05 55 2.78 89 0.16 21 130 151 0.11 5 404 653 3X10 D	15 KT/FM 2.05 55 2.78 89 0.16 46 150 196 0.08 6 280 454 4X10 C	16 KT/FM 2.05 55 2.78 89 0.16 42 170 212 0.08 6 280 454 4X10 C	17 LAUN 0.95 26 1.52 49 0.17 32 120 152 0.11 4 298 562 3X10 D	18 W/R 1.93 52 0.55 18 0.17 11 190 201 0.09 4 597 207 3X10 D	19 FOY 1.88 51 0.99 32 0.17 56 130 186 0.09 4 585 367 3X10 B	20 BED-4 0.95 26 1.53 49 0.17 49 140 189 0.09 4 298 562 3X10 C	21 LV/DN 2.01 54 2.63 85 0.16 41 130 171 0.09 5 396 624 3X10 C	22 23 BAS BA: 3.46 3.4 93 93 0.21 0.22 7 7 7 0.16 0.1 13 50 140 20 153 256 0.11 0.0 5 683 47 51 36 3X10 4X1 D C	S BAS 6 3.46 93 1 0.21 7 6 0.16 52 0 110 0 162 6 0.1 5 4 683 51
RUN # ROOM NAME RM COSS 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 (ff/min) COOLING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK	BAS 3.46 93 0.21 7 0.16 69 140 209 0.08 6 474 36	26 BAS 3.46 93 0.21 7 0.16 15 120 135 0.12 5 683 51 3X10 D																				RECEIV TOWN OF M MAR 29, 2 JUNIPER BUILDING DI	ILTON 017 12F
SUPPLY AIR TRUNK SIZE TRUNK A TRUNK C TRUNK C TRUNK D TRUNK E TRUNK E	568 897 1313 0	STATIC PRESS. 0.07 0.06 0.06 0.06 0.00 0.00	ROUND DUCT 9.1 12.2 14.5 16.7 0	RECT DUCT 10 18 24 28 0	x x x x x	8 8 8 10 8	VELOCITY (ft/min) 520 568 673 675 0		TRUNK G TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	TRUNK CFM 0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0	RECT DUCT 0 0 0 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK T	AIR TRUNK TRUNK CFM 0 0 0 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8	VELOCITY (ft/min) 0 0 0 0
RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE INLET GRILL SIZE	1 0 200 0.15 33 135 168 0.09 7.5 8 X	2 0 175 0.15 53 145 198 0.07 7.5 8 X	3 0 125 0.15 65 185 250 0.06 6.9 8 X	4 0 135 0.15 75 230 305 0.05 7.5 8 X	5 0 155 0.15 38 225 263 0.06 7.5 8 X	6 0 175 0.15 36 185 221 0.07 7.5 8 X	7 0 155 0.15 54 185 239 0.06 7.5 8 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	196 0.15 14 185 199 0.07 7.9 8 X 24	TRUNK W TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 0 1316 640 920 1316	0.05 0.05 0.05 0.05 0.05 0.05	0 0 17.5 13.3 15.3 17.5	0 0 28 20 28 24	x 8 x 10 x 8 x 8 x 12	576 591



TYPE: SITE NAME:

JUNIPER 12

LECCO RIDGE

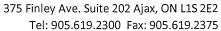
LO#

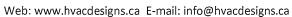
72389

WUP

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.
a)	Total Ventilation Capacity 159 cfm
b) Positive venting induced draft (except fireplaces)	Less Principal Ventil. Capacity <u>86</u> cfm
c) Natural draft, B-vent or induced draft gas fireplace	Required Supplemental Capacity 73.0 cfm
d) Solid Fuel (including fireplaces)	
e) No Combustion Appliances	PRINCIPAL EXHAUST FAN CAPACITY
	Model: VANEE 40H+ Location: BSMT
HEATING SYSTEM	86.0 cfm 3.0 sones V HVI Approve
Forced Air Non Forced Air	PRINCIPAL EXHAUST HEAT LOSS CALCULATION
	CFM ΔT *F FACTOR % LOSS 86.0 CFM X 72 F X 1.08 x 0.35
Electric Space Heat	SUPPLEMENTAL FANS NUTONE
	Location Model cfm HVI Sones
HOUSE TYPE 9.32.1(2)	ENS QTXEN050C 50 ✓ 0.3
	BATH QTXEN050C 50 ✓ 0.3
Type a) or b) appliance only, no solid fuel	ENS-4 QTXEN050C 50 ✓ 0.3
	W/R QTXEN050C 50 ✓ 0.3
II Type I except with solid fuel (including fireplaces)	HEAT RECOVERY VENTILATOR 9.32.3.1
III Any Type c) appliance	Model: VANEE 40H+
IV Type I, or II with electric space heat	86 cfm high 37 cfm low
	65 % Sensible Efficiency
Other: Type I, II or IV no forced air	@ 32 deg F (0 deg C)
SYSTEM DESIGN OPTIONS O.N.H.W.P.	LOCATION OF INSTALLATION RECEIVED
O.N.H.W.P.	Lot: C TOWN OF MILTON
1 Exhaust only/Forced Air System	MAR 29, 2017 Township
2 HRV with Ducting/Forced Air System	DINI DINO DIVICIONI
✓ 3 HRV Simplified/connected to forced air system	Address BUILDING DIVISION
4 HRV with Ducting/non forced air system	Roll # TOWN OF MILTON
,	BUILDER: GF PLANNING AND DEVELOPMENT JUNIPER 12F MODEL
Part 6 Design	Name: BUILDING: REVIEWED
TOTAL VENTILATION CAPACITY 9.32.3.3(1)	SCOTT SHERRIFFS APR 11, 2017 Address: PLANS EXAMINER DATE
	Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relives the owner from
Basement + Master Bedroom 2 @ 21.2 cfm 42.4 cfm	City: full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u> cfm	Telephone #: Code, both as amended, as well as other applicable statutes and regulations of the Province on Ontario,
Kitchen & Bathrooms 5 @ 10.6 cfm 53 cfm	INSTALLING CONTRACTOR By-laws of the Region of Halton and Town of Milton
Other Rooms <u>3</u> @ 10.6 cfm <u>31.8</u> cfm	Name:
Table 9.32.3.A. TOTAL <u>159.0</u> cfm	Address:
	City:
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1)	
1 Bedroom 31.8 cfm	Telephone #: Fax #:
2 Bedroom 47.7 cfm	DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed
3 Bedroom 63.6 cfm	in accordance with the Ontario Building Code. Name: HVAC Designs Ltd.
4 Bedroom 79.5 cfm	Signature: Miletal Office
5 Bedroom 95.4 cfm	HRAI# 001820
More than 5 - Part 6 TOTAL 79.5 cfm I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPR	Date: February-17 OPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE







HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: JUNIPER 12	WUP	BUILDER: GREENPARK HOMI	ES
SFQT: 2992	LO# 72389	SITE: LECCO RIDGE	
DESIGN ASSURABTIONS			
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
BUILDING DATA			
ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	· Y
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Υ
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Υ
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VOLUME (ft³):	41260.5	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:	6.5 ft
LENGTH: 38.0 ft W	/IDTH: 50.0 ft	EXPOSED PERIMETER:	176.0 ft

2012 OBC - COMPLIANCE PACKAGE		
Component		Compliance Package ENERGYSTAR
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 + 5
Basement Walls Minimum RSI (R)-Value		20
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R	R)-Value	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Valu	ie	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value		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	JUNIPER 12F	0.95
HRV Minimum Efficiency	BUILDING DIVISION	65%
Domestic Hot Water Heater Minimum EF	BOILDING DIVIDION	90% TE

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE







HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Sta	tion Description
Province:	Ontario	
Region:	Milton	
	Site D	escription
Soil Conductivity:	Normal	conductivity: dry dand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	n Dimensions
Floor Length (m):	11.6	
Floor Width (m):	15.2	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.9	
Depth Below Grade (m):	2.0	Insulation Configuration
Window Area (m²):	0.8	•
Door Area (m²):	3.7	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desig	n Months
Heating Month	1	
	Founda	ntion Loads
Heating Load (Watts):		1693

TYPE: JUNIPER 12 **LO#** 72389

WUP

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 12F BUILDING DIVISION





Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stat	ion Des	cript	ion	:							
Province:	Ontai	rio									
Region:	Milto	Milton									
Weather Station Location:	Open	flat te	rrain, g	grass							
Anemometer height (m):	10										
Local S	hieldin	g									
Building Site:	Subu	rban, fo	orest								
Walls:	Heav	y									
Flue:	Heav	y									
Highest Ceiling Height (m):	6.71										
Building Co	onfigur	ation									
Type:	Detac	ched									
Number of Stories:	Two										
Foundation:	Full	Full									
House Volume (m³):	1168	.4									
Air Leakage	e/Venti	latior	1								
Air Tightness Type:	Prese	nt (196	51-) (3	.57 ACI	⊣)						
Custom BDT Data:	ELA @	9 10 Pa	ì.		1557.5 cm²						
	3.57				ACH @ 50 Pa						
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust						
		40.6			40.6						
Fluc	e Size			, ^{je} r							
Flue #:	#1	#2	#3	#4							
Diameter (mm):	0	0	0	0							
Natural Infi	Itration	Rate	:S								
Heating Air Leakage Rate (ACH/H):	C	.30	7							
Cooling Air Leakage Rate (ACH/H)):	C	.10	5							

TYPE: JUNIPER 12

LO# 72389

WUP

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 12F BUILDING DIVISION **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.

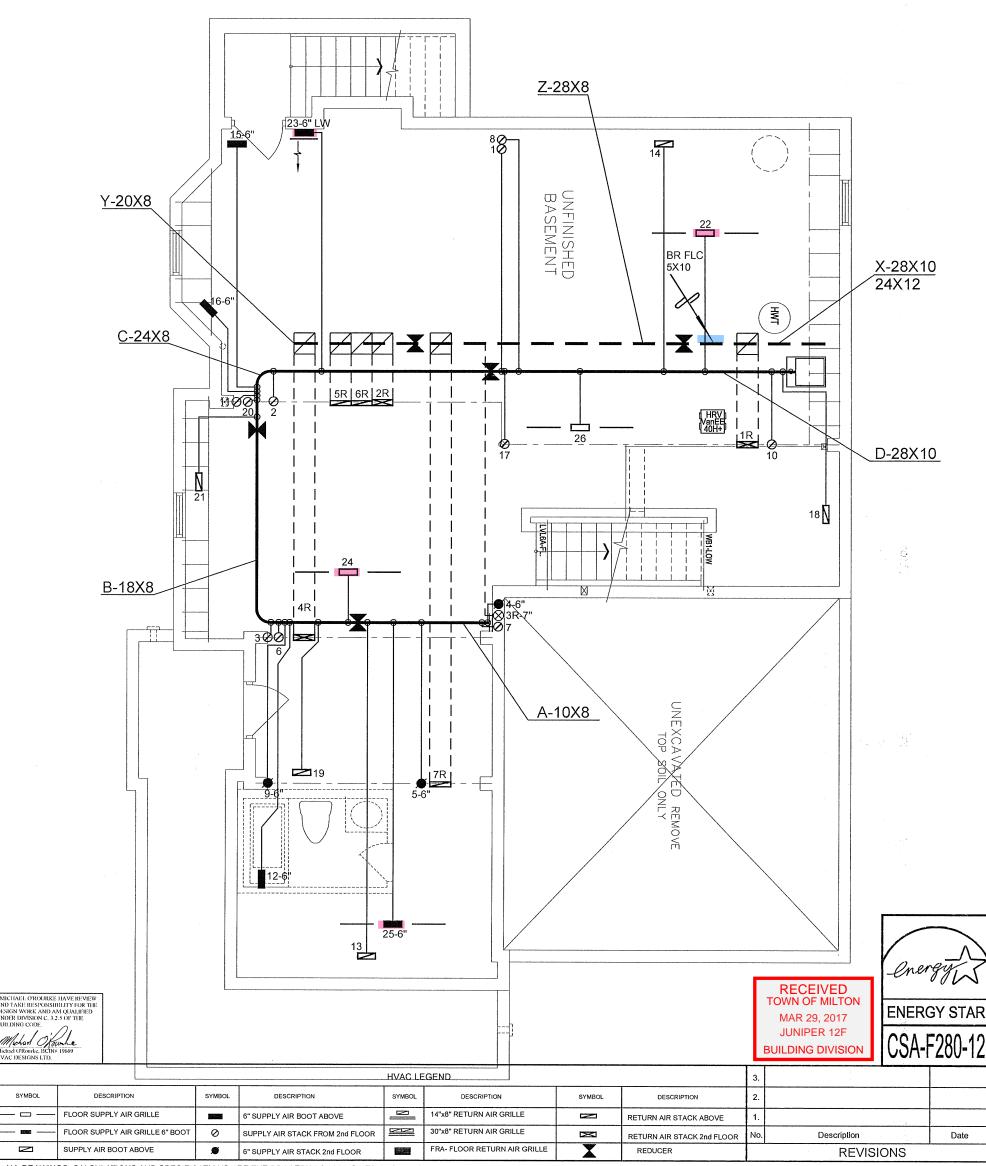
- 2) Supply or return air ducts not protected by an insulated exterior wall shall me insulated to a minimum 2.1 RSI (R-12)
- 3) Exhaust ducts (principle, supplemental & other exhaust fans) passing through unheated space shall be insulated to a minimum 0.5 RSI (R-3)
- unconditioned spaces shall be sealed to a SMACNA Class 'A' seal level and supply air ducts in conditioned spaces to shall be sealed to a SMACNA Class "C' seal level
- 5) Furnaces to be equipped with brushless DC motor (ECM) and controlled with a programmable thermostat (4 times periods/day, 2 day types/week)
- 6) HRVs to be installed in accordance with 9.32.3.11. and manufacturers' requirements (intake/exhaust separation, distance from R/A drop)
- 7) 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

TOWN OF MILTON AND DEVELOPMENT JUNIPER 12F MODEL

BUILDING: REVIEWED SCOTT SHERRIFFS

APR 11, 2017 PLANS EXAMINER

nspections by the Town of Milton relives the owner from ull responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building ode, both as amended, as well as other applicable tutes and regulations of the Province on Ontario, laws of the Region of Halton and Town of Milton



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GREENPARK HOMES

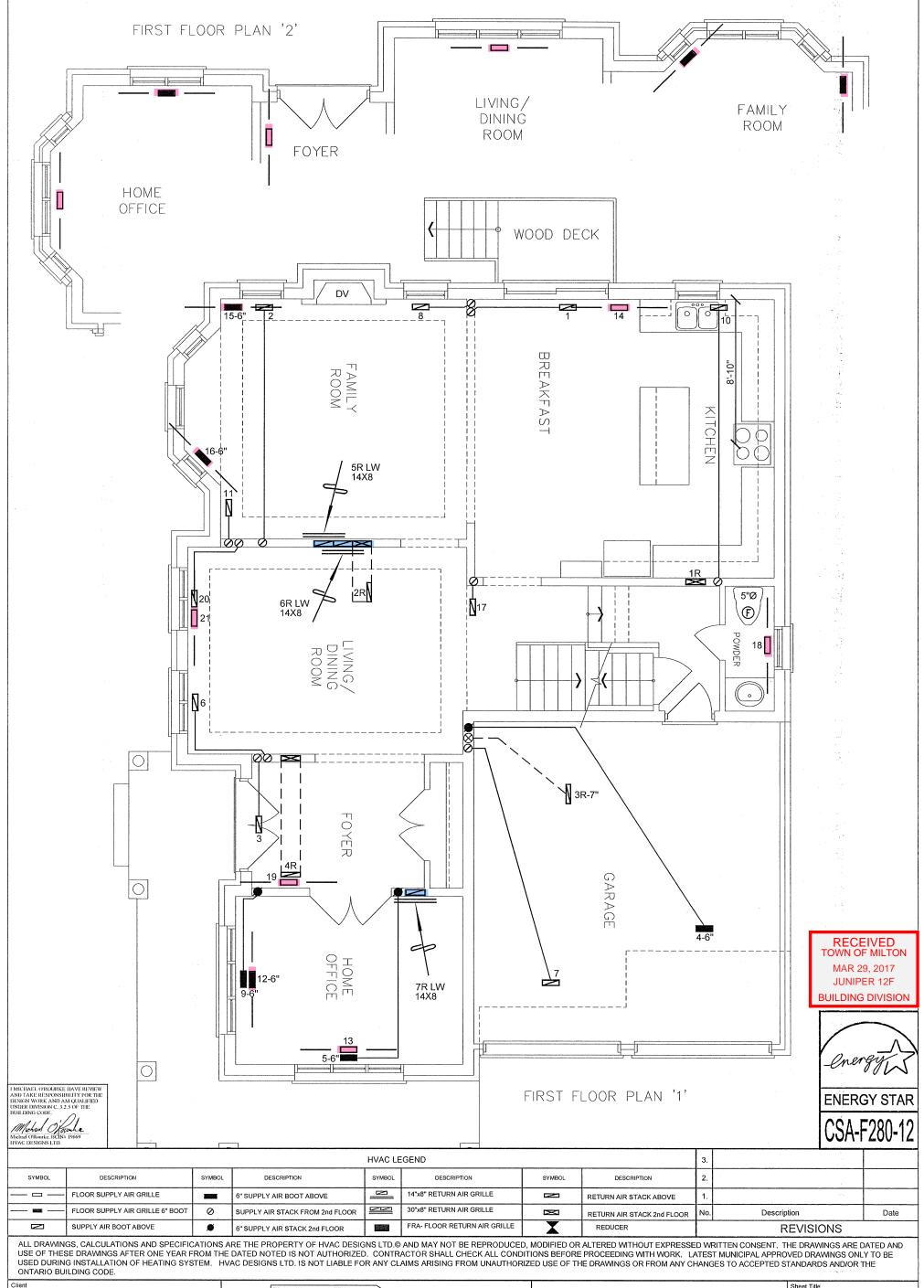
LECCO RIDGE MILTON, ONTARIO

375 Finley Ave - Suite 202 - Aiax, 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.

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LO# 72389			

JUNIPER 12 WUP 2976 sqft



GREENPARK HOMES

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BUILDING: REVIEWED SCOTT SHERRIFFS PLANS EXAMINER

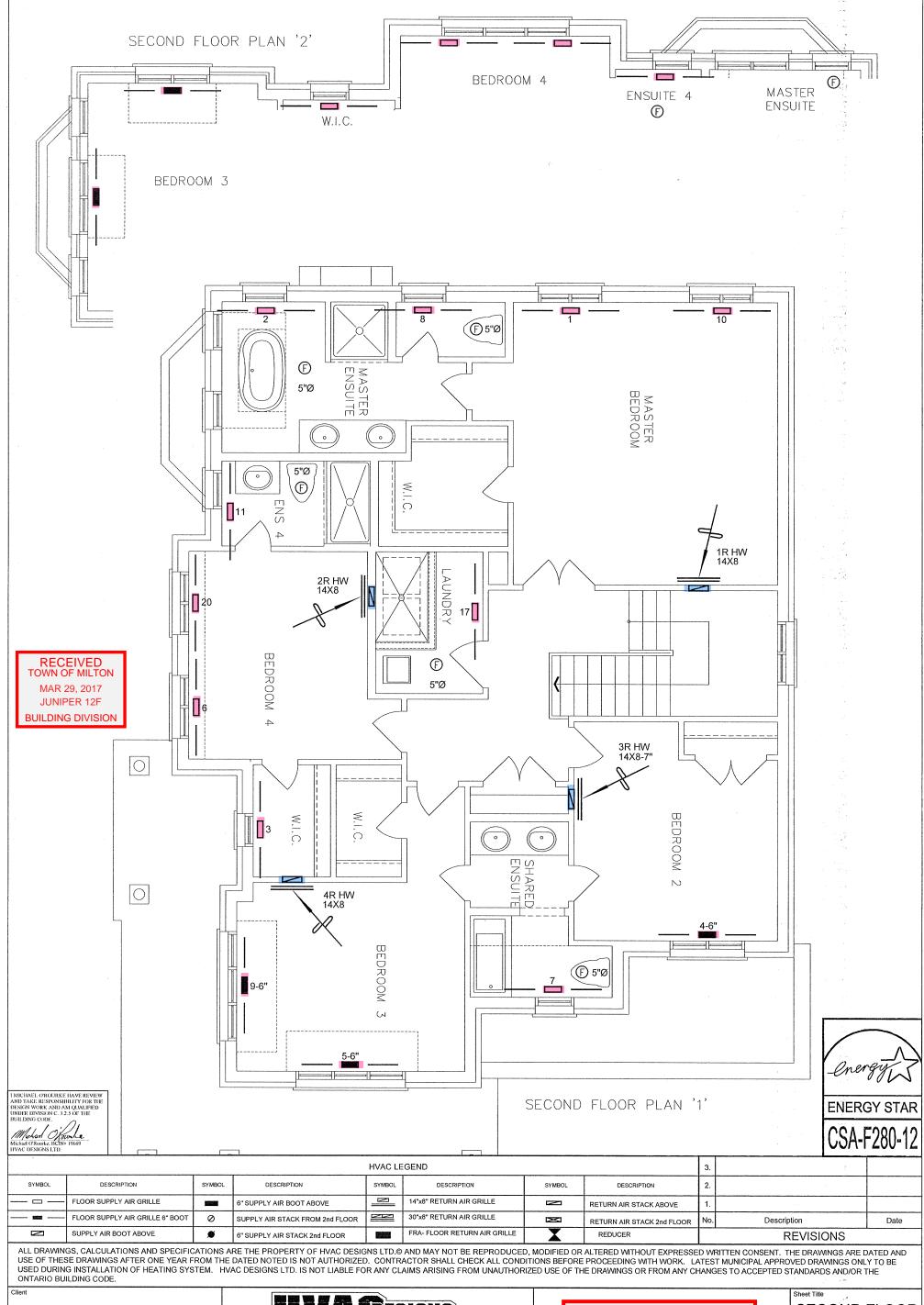
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FIRST FLOOR **HEATING** LAYOUT

DEC/2016 3/16" = 1'-0" BCIN# 19669

72389

JUNIPER 12 WUP 2976 sqft



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BUILDING: REVIEWED SCOTT SHERRIFFS

PLANS EXAMINER Neither the issuance of a permit nor carrying out of nspections by the Town of Milton relives the owner from ull responsibility for compliance with the provisions of he Ontario Building Code Act and the Ontario Building SECOND FLOOR **HEATING** LAYOUT

DEC/2016 3/16" = 1'-0"

BCIN# 19669 72389

JUNIPER 12 WUP 2976 sqft Code, both as amended, as well as other applicable statutes and regulations of the Province on Ontario, By-laws of the Region of Halton and Town of Milton