

	SITE NAME: BUILDER:				:e					WUP JUNIPER 9				GFA:	3481			Feb-17 72387									RATE					S AT °F IN AT °F			7	CSA-I	
	ROOM USE	GKLLI	IF AININ	HOWL	MBR			ENS	111 -	JOINI LICE		т	BED-2		,	BED-3	T	BED-4	—т		BATH	7111111111		BED-5		I	ENS-4	0.103	т	ENS-		<u> </u>		•	Î.	LIVEING	ISTAN
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	GRS.WALL AREA	Loss	GAIN		360			252					135		1	330		380			63			126			144			81					1		1
	GLAZING				Loss			Loss				1	LOSS			LOSS GAIN		LOSS			LOSS	- 1		Loss			Loss				S GAI	1					1
	NORTH	17.9	15.8	0	0	0	9	161	143			15	268	238	0	0 0	0	0	0	7		111	0	0	0	0	0	0	0	0	0	- 1			15		
	EAST	17.9	41.4	0	0	0	0	0	0			0	0	0	48	857 1988	36		1491	0	0	0	0	0	0	11	196	456	0	0	0	1					
	SOUTH	17.9	24.8	0	0	0	0	0	0			0	0	0	0	0 0	17	303	421	0	0	0	13	232	322	0	0	0	7	125	173	3			1		
	WEST	17.9	41.4	34	607	1408	18	321	746			0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1					
	SKYLT.	30.6	101.2	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						-
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	NET EXPOSED WALL	2.6	0.5	326	853	165	225	589	114			120	314	61	282	738 143	327	856	165	56	147	28	113	296	57	133	348	67	74	194	. 37	,			-		
1	NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0			0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				1		
	EXPOSED CLG	1.4	0.7	315	434	216	159	219	109			265	365	182	233	321 160	261	360	179	147	203	101	216	298	148	114	157	78	180	248	123	3					
	NO ATTIC EXPOSED CLG	2.2	1.1	0	. 0	0	28	63	31			0	0	0	18	40 20	30	67	33	0	0	0	0	0	0	0	0	0	0	0	0						
	EXPOSED FLOOR	2.2	0.4	0	0	0	0	0	0			0	0	0	251	550 106	0	0	0	111	243	47	0	0	0	0	0	0	0	0	0						
	BASEMENT/CRAWL HEAT LOSS				0			0				1	0			0	1	0			0			0			0			0	-				-		
	SLAB ON GRADE HEAT LOSS				0			0					0			0		0	- 1		0	ļ		0			0			ō					1.		
	SUBTOTAL HT LOSS				1894			1353				1	947			2507		2229	- 1		717	- 1		825			701			567					15		- 1
	SUB TOTAL HT GAIN					1789			1142			1	,	480		241	1		2290			287			527			601			334	4					- 1
	LEVEL FACTOR / MULTIPLIER	10		0.20	0.32		0.20					0.20	0.32		0.20		0.20	0.32	- 1	0.20			0.20	0.32		0.20	0.32		0.20	0.32					- 120		- 1
	AIR CHANGE HEAT LOSS			0.20	615		0.20	439	- 1			0.20	307		5	814	1.20	723			233			268			228		1	184				la service se La companya	1 200		- 1
	AIR CHANGE HEAT GAIN				0.0	160		400	102				007	43	į	216		, 20	205		200	26			47			54		104	30	.	41.34%		1.6		- 1
	DUCT LOSS				0	100		0	102			-	0	43	ł	332		0	203		95	20		0	41		n	34		0	30	' l			- *		
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.	HEAT GAIN APPLIANCES/LIGHTS					845			0					845	1	845			845		4045	0			845			0			0				1.5		1
	TOTAL HT LOSS BTU/H				2509			1792					1254			3652		2952			1045			1093	0450		929			750	473				1.5		
	TOTAL HT GAIN x 1.3 BTU/H	L		L		4256			1618	L				2090	L	531	<u> </u>		4653			447			2156	L		851	1		4/3	3			<del>-  </del>		
	ROOM USE			Γ	LV/DN			OFF		KT/	-NA		LAUN		1														т					ID	Ť	BAS	
	EXP. WALL	ľ		1				٠	- 1	K1/	L141	1	LAUN			W/R	1	FOY															WU		1	2,10	
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	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	17.9 17.9 17.9 17.9 30.6 24.1 2.6	15.8 41.4 24.8 41.4 101.2 4.7	0 0 38 0	10 210 LOSS 0 0 678 0	0 0	0 39 0 0	37 10 370 LOSS 0 696 0	0 1615 0 0	75 LO: 0 0 0 0 0 0 105 18	0 0 0 0 0 0 0 0 0 74 434	9 0 0 0 0 0 20	21 11 231 LOSS 161 0 0 0	6 GAIN 143 0 0 0	0 0 0 0	100 100 1000 LOSS GAII 0 0 0 0 0 0 0 0 0 0 0 0	0 20 0 0 0 20 290	33 10 330 LOSS 0 357 0 0	0 828 0 0			BU SC	UN ILDIN OTT	NG: SHE	REV ERRI	IG AI	ND D JUN ED	EVE IPEF	LOP	MEN ODE	NT EL	0 0	19 10 18 LOS 0 0 0 0 0	9 0 0 11 SSS GAIR 0 0 0 0 0 0 0 11 93 00 81	0 0 0 0 20	194 10 1261 LOSS 161 0 0 0 481	143 0 0 0 0 0 93
	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMIL ABOVE GR	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6	0 0 38 0 0 0 172	10 210 LOSS 0 0 678 0 0 0	0 0 941 0 0	0 39 0 0 0 0 331	37 10 370 LOSS 0 696 0 0 0	0 1615 0 0 0 0 167	75 LO: 0 0 0 0 105 18 0 0 0 0 645 166	0 SSS GAII 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 0 20 202 0	21 11 231 LOSS 161 0 0 0 481 529	6 GAIN 143 0 0 0 0	0 0 0 0 0 0	100 100 100 LOSS GAII 0 0 0 0 0 0 0 0 0 0 0 0 0 0 262 51	0 20 0 0 0 20	33 10 330 LOSS 0 357 0 0 0 481 759	0 828 0 0 0 93 147			BUI SCO PLA	ILDIN OTT NS EX	NG: SHE	REV ERRI	IEW IFFS	ND D JUN ED	IPEF AF	LOP R 9 M	MEN MODE I, 20	NT EL	0 0 0 0 20 161	19 10 18 LOS 0 0 0 0 0 48 42	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 20	194 10 1261 LOSS 161 0 0 0 481	143 0 0 0 0 0 93
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	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYSYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7 1.1	0 0 38 0 0 0 172 0	10 210 LOSS 0 0 678 0 0 450 0	0 0 941 0 0	0 39 0 0 0 0 331 0	37 10 370 LOSS 0 696 0 0 0	0 1615 0 0 0 0 167 0	75 LO 0 C 0 C 0 C 105 18' 0 C 645 16' 0 C 10 1.	0 SSS GAII 0 0 0 0 74 434 0 0 0 888 326 0 4 7	9 0 0 0 0 20 202 0 0	21 11 231 LOSS 161 0 0 0 481 529 0	6 GAIN 143 0 0 0 0 93 102	0 0 0 0 0 0 100 0	10 100 LOSS GAII 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 20 0 0 0 20 290 0 0	33 10 330 LOSS 0 357 0 0 481 759 0 0	0 828 0 0 0 93 147 0 0			BU SCO PLA Neith	ILDIN OTT NS EX ner the	NG: SHE (AMIN issua by th	REV ERRI NER ance one Tow	IEW IFFS f a per	ND D JUN ED rmit no	DEVE IPEF AF r carry	R 9 M	MEN MODE 1, 20 DA t of	NT EL 017 NTE om	0 0 0 0 20 161	19 10 18 LOS 0 0 0 0 0 48 1 42	9 0 11 SS GAII 0 0 0 0 0 0 11 93 81 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 20 0 -582	194 10 1261 LOSS 161 0 0 0 481 0 1943	143 0 0 0 0 93 0 376
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	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7 1.1	0 0 38 0 0 0 172 0	10 210 LOSS 0 0 678 0 0 450 0 0 0 0 0	0 0 941 0 0	0 39 0 0 0 0 331 0	37 10 370 LOSS 0 696 0 0 0 866 0 0	0 1615 0 0 0 0 167 0	75 LO C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 74 4344 0 0 0 88 326 0 4 7	9 0 0 0 0 20 202 0 0	21 11 231 LOSS 161 0 0 481 529 0 0 0	6 GAIN 143 0 0 0 0 93 102 0 0	0 0 0 0 0 0 100 0	10 10 10 LOSS GAII 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 20 0 0 0 20 290 0 0	33 10 330 LOSS 0 357 0 0 481 759 0 0 0	0 828 0 0 0 93 147 0 0			BU SCO PLA Neith inspe full re the C	ILDIN OTT NS EX ner the ections espons Ontario	NG: SHE (AMIN issua is by the sibility Build as ar	REV ERRI NER ance one Town for co	IEW IFFS If a per un of Nompliar ode Aced, as	MD D JUN ED rmit no Milton re nce with ct and to	AF r carry elives th the properties of the orthor	PR 11 ring outhe ow provisintario E applic	MEN 10DI 1, 20 DA t of mer fro ons of Building	NT EL 017 TE rom	0 0 0 0 20 161 0	18 10 10 10 10 10 10 10 10 10 10 10 10 10	9 0 0 11 SSS GAIN 0 0 0 0 0 0 11 93 10 81 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 20 0 582 0	194 10 1261 LOSS 161 0 0 481 0 1943 0 0 6605	143 0 0 0 0 93 0 376 0
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	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED LG 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 CASS DUCT LOSS	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7 1.1	0 0 38 0 0 0 172 0 0	10 210 LOSS 0 0 678 0 0 0 450 0 0 0 0 0 11128	0 0 941 0 0 0 87 0 0 0	0 39 0 0 0 0 331 0 0	37 10 370 LOSS 0 696 0 0 0 0 8666 0 0 0 0 1562 0.61	0 1615 0 0 0 167 0 0 0	75 LOO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 0 20 202 0 0 0 0	211 111 2311 LOSS 1611 0 0 0 0 4811 529 0 0 0 0 0 0 1170	GAIN 143 0 0 0 0 93 102 0 0 0 0 3338	0 0 0 0 0 100 0 0 0	100 100 LOSS GAII 0 0 0 0 0 0 0 0 0 0 0 0 262 51 0 0 0 0 0 0 0 0 0 262 51 0 0 0 0 0 0 0 0 5	0 20 0 0 0 20 290 0 0	33 10 330 LOSS 0 357 0 0 481 759 0 0 0 0 0 1597	0 828 0 0 0 93 147 0 0 0			BU SCO PLA Neith inspe full re the C Code statu	ILDIN OTT NS EX ner the ections espons Ontario e, both ites an	NG: SHE (AMIN issua is by the sibility Build as ar	REV ERRI NER ance one Town for cooling Commende ulation	IEW IFFS  f a per n of N mpliar ode Ac ed, as as of th of Hal	rmit no filton rence with the tand the well as the Proviton and the TOW	AF r carry elives the Ort of Other vince of d Town  ECE N OI	PR 11 ring out the ow provisintario E applicon Ontern of Mi	DA t of one of Suildingable ario, illton	NT EL 017 NTE om f	0 0 0 0 20 161 0	18 10 10 10 10 10 10 10 10 10 10 10 10 10	9 0 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 20 0 -582 0 0	194 10 1261 LOSS 161 0 0 481 0 1943 0 0 6605 9189	143 0 0 0 0 93 0 376 0 0 0
	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2 2.2	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7 1.1	0 0 38 0 0 0 172 0 0 0	10 210 LOSS 0 0 678 0 0 0 450 0 0 0 0 1128	0 0 941 0 0 0 87 0 0 0 0	0 39 0 0 0 0 331 0 0 0	37 10 370 LOSS 0 696 0 0 0 0 8666 0 0 0 0 1562 0.61	0 1615 0 0 0 167 0 0 0	755 LOO 0 0 0 0 0 0 105 188 0 0 0 645 166 0 0 0 10 0 0 0 0 20 0 20 0 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 20 202 0 0 0	211 111 2311 LOSS 161 0 0 0 481 529 0 0 0 0 0 1170	GAIN 143 0 0 0 0 93 102 0 0 0 0 0 3338 30 0	0 0 0 0 0 100 0 0 0	100 100 LOSS GAII 0 0 0 0 0 0 0 0 0 0 0 0 262 51 0 0 0 0 0 0 262 51 161 5 0 0	0 20 0 0 0 20 290 0 0 0	33 10 330 LOSS 0 357 0 0 0 481 759 0 0 0 0 0 1597	0 828 0 0 93 147 0 0 0 1068			BU SCO PLA Neith inspe full re the C Code statu	ILDIN OTT NS EX ner the ections espons Ontario e, both ites an	NG: SHE (AMIN issua is by the sibility Build as ar	REV ERRI NER ance one Town for cooling Commende ulation	IEW IFFS  f a per n of N mpliar ode Ac ed, as as of th of Hal	MD D JUN ED mit no filton rence with the tand to well as the Provition and the tand to the	AF r carry elives th the prince of the Trince of Town  ECEN OI	PR 11  ring out the ow provisintario E application Ontain of Miles F MILE 9, 20	MEN IODE  , 20 DA t of one from the one of t	NT EL 017 NTE om f	0 0 0 20 161 0 0	18 10 10 10 10 10 10 10 10 10 10 10 10 10	9 0 0 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 2 0 0 -582 0 0	194 10 1261 LOSS 161 0 0 481 0 1943 0 0 6605 9189	143 0 0 0 93 0 376 0 0 611
	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT 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 HEAT GAIN PEOPLE	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7 1.1	0 0 38 0 0 0 172 0 0	10 210 LOSS 0 0 678 0 0 0 450 0 0 0 0 1128	0 0 941 0 0 87 0 0 0 0 0	0 39 0 0 0 0 331 0 0	37 10 370 LOSS 0 696 0 0 0 0 8666 0 0 0 0 1562 0.61	0 1615 0 0 0 167 0 0 0 1783	75 LO CO	55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 0 20 20 20 0 0 0 0	211 111 2311 LOSS 161 0 0 0 481 529 0 0 0 0 0 1170	GAIN 143 0 0 0 0 93 102 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0 0 0	10	0 20 0 0 0 20 290 0 0	33 10 330 LOSS 0 357 0 0 0 481 759 0 0 0 0 0 1597	0 828 0 0 93 147 0 0 0 1068			BU SCO PLA Neith inspe full re the C Code statu	ILDIN OTT NS EX ner the ections espons Ontario e, both ites an	NG: SHE (AMIN issua is by the sibility Build as ar	REV ERRI NER ance one Town for cooling Commende ulation	IEW IFFS  f a per n of N mpliar ode Ac ed, as as of th of Hal	MD D JUN ED mit no filton rence with the tand to well as the Provition and the tand to the	AF r carry elives th the prince of the Trince of Town  ECEN OI	PR 11 ring out the ow provisintario E applicon Ontern of Mi	MEN IODE  , 20 DA t of one from the one of t	NT EL 017 NTE om f	0 0 0 0 20 161 0	18 10 10 10 10 10 10 10 10 10 10 10 10 10	9 0 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 20 0 -582 0 0	194 10 1261 LOSS 161 0 0 481 0 1943 0 0 6605 9189	143 0 0 0 93 0 376 0 0 0
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	GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT 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 HEAT GAIN PEOPLE	17.9 17.9 17.9 17.9 30.6 24.1 2.6 3.3 1.4 2.2 2.2	15.8 41.4 24.8 41.4 101.2 4.7 0.5 0.6 0.7 1.1	0 0 38 0 0 0 172 0 0 0	10 210 LOSS 0 0 678 0 0 0 450 0 0 0 0 1128	0 0 941 0 0 87 0 0 0 0 0 0	0 39 0 0 0 0 331 0 0 0	37 10 370 LOSS 0 696 0 0 0 0 8666 0 0 0 0 1562 0.61	0 1615 0 0 0 167 0 0 0 1783	755 LO 0	5 0 0 0 GAR	9 0 0 0 0 202 0 0 0 0	211 111 2311 LOSS 161 0 0 0 481 529 0 0 0 0 0 1170	GAIN 143 0 0 0 0 93 102 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 100 0 0 0	10	0 20 0 0 0 20 290 0 0 0	33 10 330 LOSS 0 357 0 0 481 759 0 0 0 0 0 1597	0 828 0 0 93 147 0 0 0 1068			BU SCO PLA Neith inspe full re the C Code statu	ILDIN OTT NS EX ner the ections espons Ontario e, both ites an	NG: SHE (AMIN issua is by the sibility Build as ar	REV ERRI NER ance one Town for cooling Commende ulation	IEW FFS  f a per f a p	MD D JUN ED mit no filton rence with the tand to well as the Provition and the tand to the	AF r carrygelives shifted from the Orion other rince of d Town Company of the Orion other AF 2 UNIF	PR 11  ring out the own provision of Minimum	MEN NODE 1, 20 DA t t of ner from the constant of the constant	NT EL 017 NTE TE oom of ong	0 0 0 20 161 0 0	18 10 10 10 10 10 10 10 10 10 10 10 10 10	9 0 0 111	0 0 0 0 20 0 -582 0 0 0	194 10 1261 LOSS 161 0 0 481 0 1943 0 0 6605 9189	143 0 0 0 93 0 376 0 0 0

TOTAL HEAT GAIN BTU/H:

41159

TONS: 3.43

LOSS DUE TO VENTILATION LOAD BTU/H: 2552

STRUCTURAL HEAT LOSS: 50603

TOTAL COMBINED HEAT LOSS BTU/H: 53155

Mhehad Oxforke.



		: LECCO : GREENI		MES				TVDE:	WUP JUNIPER				DATE:	Eab 17			054	0404					
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM RUN COUNT SIA	1316 50,603	-	COO TOTAL H	LING CFM IEAT GAIN RATE CFM	40,666 32.36 Bas			furnace furr a/c coil available for	pressure nace filter pressure pressure r s/a & r/a	0.6 0.05 0.2 0.35			DATE:				ME	804CNA SPEED LOW EDLOW	*AMANA 80 1316 0	72387 <b>A</b>	OUTPUT	AFUE = 96.0 (BTU/H) = 80,00 (BTU/H) = <b>76,8</b> 0	00 00 16
R/A All S/A diffusers 4"x10" un All S/A runs 5"Ø unless no	0 less note	0 d otherwis	5 se on layo	8 2 out.	5 1		max	s/a dif pi	essure s/a ress. loss essure s/a	0.03		r/a grille pre usted pre		0.17 0.02 0.15				MEDIUM IM HIGH HIGH	1389 0 1396		rempera:	CFM @ .6 " E.S	
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 (fl/min) COOLING VELOCITY (fl/min) OUTLET GRILL SIZE	1 MBR 1.25 33 2.13 69 0.17 27 160 187 0.09 5 242 507 3X10	2 ENS 0.90 23 0.81 26 0.17 59 150 209 0.08 4 264 298 3X10 A	3 ENS 0.90 23 0.81 26 0.17 43 120 163 0.11 4 264 298 3X10 B	4 BED-2 1.25 33 2.09 68 0.17 47 160 207 0.08 5 242 499 3X10 A	5 BED-3 1.83 47 2.66 86 0.16 47 120 167 0.1 5 345 631 3X10 D	6 BED-4 1.48 38 2.33 75 0.17 75 160 235 0.07 5 279 551 3X10 C	7 BATH 1.05 27 0.45 14 0.17 51 160 211 0.08 4 310 161 3X10 D	8 BED-3 1.83 47 2.66 86 0.16 50 130 0.09 5 345 631 3X10 D	9 BED-4 1.48 38 2.33 75 0.17 66 130 196 0.09 5 279 551 3X10 C	10 MBR 1.25 33 2.13 69 0.17 41 130 171 0.1 5 242 507 3X10	11 ENS-2 0.75 20 0.47 15 0.17 21 170 191 0.09 4 229 172 3X10	12 LV/DN 1.82 47 2.55 83 0.16 39 140 179 0.09 5 345 609 3X10 D	13 OFF 2.52 66 3.62 117 0.15 59 140 199 0.08 6 337 597 4X10	14 KT/FM 1.92 50 2.68 87 0.16 22 150 172 0.09 5 367 639 3X10	15 KT/FM 1.92 50 2.68 87 0.16 31 140 171 0.09 5 367 639 3X10	16 KT/FM 1.92 50 2.68 87 0.16 39 110 149 0.11 5 367 639 3X10	17 LAUN 1.89 49 1.89 61 0.17 44 110 154 0.11 5 360 448 3X10	18 W/R 0.42 11 0.07 2 0.17 19 140 159 0.11 4 126 23 3X10	19 FOY 2.58 67 1.51 49 0.17 45 130 175 0.1 5 492 360 3X10	20 ENS-4 0.93 24 0.85 28 0.17 65 140 205 0.08 4 275 321 3X10	21 BED-5 1.09 28 2.16 70 0.17 50 150 200 0.09 5 206 514 3X10	22 22 BAS BA 3.92 3.9 102 10 0.22 0.2 7 7 7 0.16 0.1 38 22 100 15 138 17 0.12 0.0 5 6 749 52 51 33 3X10 4X	S BAS 12 3.92 2 102 2 0.22 7 6 0.16 9 13 0 150 9 0.1 6 0.5 0 520 0 36 10 4X10
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 (fl/min) OUTLET GRITL SIZE	25 BAS 3.92 102 0.22 7 0.16 37 120 157 0.1 6 520 36 4X10	26 BAS 3.92 102 0.22 7 0.16 49 140 189 0.09 6 520 36 4X10 C								В	В		C	В	A	A	A	D	C			RECEINTOWN OF MAR 29, JUNIPE	/ED IILTON 2017 R 9
SUPPLY AIR TRUNK SIZE  TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F  RETURN AIR #  AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EOUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE	568 335 746 0	STATIC PRESS. 0.08 0.08 0.07 0.07 0.00 0.00 2 0 85 0.15 58 185 243 0.06 6	ROUND DUCT 9 11.3 9.6 13 0 0 0 175 0.15 57 160 217 0.07 7.5	RECT DUCT 10 16 10 20 0 0 0 85 0.15 59 195 254 0.06 6	x x x x x x x 5 0 175 0.15 22 185 207 0.07	8 8 8 8 8 8 8 0 345 0.15 24 225 249 0.06 10.1	VELOCITY (ft/min) 553 639 603 671 0 0 7 0 85 0.15 54 205 259 0.06 6	0 0 0.15 1 0 14.80	TRUNK G TRUNK I TRUNK I TRUNK J TRUNK K TRUNK L  0 0 0.15 1 0 1 14.80	TRUNK CFM 0 0 0 0 0 0 0 0 1 1 14.80	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 15 1 0 14.80 0 0 0	0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1	x x x x x x x 0 0.15 1 0 14.80	8 8 8 8 8 0 0.15 1 14.80	VELOCITY (It/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TRUNK O TRUNK O TRUNK O TRUNK O TRUNK O TRUNK O TRUNK T TRUNK U TRUNK V TRUNK V TRUNK W TRUNK X TRUNK Z DROP	IR TRUNK TRUNK CFM 0 0 0 0 0 0 0 0 0 886 655 430 1316	SIZE STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	ROUND DUCT 0 0 0 0 0 0 0 0 0 15.1 13.5 11.5 17.5	RECT DUCT 0 0 0 0 0 0 0 0 0 0 0 0 22 16 24	X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8	
INLET GRILL SIZE	8 X 14	8 X 14	8 X 14	8 X 14	8 X 14	8 X 30	8 X 14	0 X 0	0 X 0	0 X 0	0 X 0	0 X 0	0 X 0	0 X 0	0 X 0	8 X 24		1					



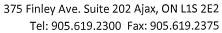
TYPE: SITE NAME: JUNIPER 9

LECCO RIDGE

72387 WUP

#### RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.32:3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Capacity
b) Positive venting induced draft (except fireplaces)		Less Principal Ventil, Capacity96 cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capacity
d) Solid Fuel (including fireplaces)		
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CAPACITY
		Model: VANEE 50H Location: BSMT
HEATING SYSTEM		96.0 cfm 3.0 sones ✓ HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION  CFM ΔT *F FACTOR % LOSS
Electric Space Heat		96.0 CFM X 72 F X 1.08 X 0.34
		SUPPLEMENTAL FANS NUTONE
HOUSE TYPE	9.32.1(2)	Location         Model         cfm         HVI         Sones           ENS         QTXEN050C         50         ✓         0.3
	0.02.1(2)	BATH QTXEN050C 50 ✓ 0.3
✓ I Type a) or b) appliance only, no solid fuel		ENS-2 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 50H
IV Type I, or II with electric space heat		96 cfm high 47 cfm low
Other: Type I, II or IV no forced air		66 % Sensible Efficiency HVI Approved @ 32 deg F ( 0 deg C)
, , , , , , , , , , , , , , , , , , , ,		
SYSTEM DESIGN OPTIONS	O.N.H.W.P.	LOCATION OF INSTALLATION RECEIVED
		Lot: C TOWN OF MILTON
1 Exhaust only/Forced Air System		MAR 29, 2017
2 HRV with Ducting/Forced Air System		Township Pl JUNIPER 9 Address BUILDING DIVISION
		Address BUILDING DIVISION
4 HRV with Ducting/non forced air system		Roll# TOWN OF MILTON PLANNING AND DEVELOPMENT
Duan.		BUILDER: GF JUNIPER 9 MODEL
Part 6 Design		Name: BUILDING: REVIEWED
TOTAL VENTILATION CAPACITY	0.20.2.2(4)	SCOTT SHERRIFFS APR 11, 2017 PLANS EXAMINER DATE
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Neither the issuance of a permit nor carrying out of
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City: inspections by the Town of Milton relives the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building
Other Bedrooms <u>4</u> @ 10.6 cfm <u>42.4</u>	cfm	Telephone #:  Code, both as amended, as well as other applicable statutes and regulations of the Province on Ontario,
Kitchen & Bathrooms6	cfm	INSTALLING CONTRACTOR By-laws of the Region of Halton and Town of Milton
Other Rooms5 @ 10.6 cfm53.0	cfm	Name:
Table 9.32.3.A. TOTAL <u>201.4</u>	cfm	Address:
		City:
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	T-lask-a-di
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: Marked Officente.
.5 Bedroom 95.4 cfm		HRAI#
More than 5 - Part 6 TOTAL 95.4 cfm		Date: February-17
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAL		PROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.
INDIVIDUAL BCIN: 19669 Michael O'RO	JURNE	



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



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

MODEL: JUNIPER 9	WUP	BUILDER: GREENPARI	K HOMES
<b>SFQT:</b> 3481	LO# 72387	SITE: LECGO RIDG	
DESIGN ASSUMPTIONS	Sandronia de la company de la superioria de la company		
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):	Υ
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):	47967.0	ASSUMED (Y/N):	Υ
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR LIGHTING LOAD	(Btu/h/ft²): 1.50	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATION CONFIGURA	TION BCIN_1	DEPTH BELOW GRADE:	6.5 ft
LENGTH: 59.0 ft	WIDTH: 38.0 ft	EXPOSED PERIMETER:	194.0 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	)-Value	<u>-</u> •
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Valu	e / 1 / 2	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value		10
Windows and Sliding Glass Doors Maximum U-Value	RECEIVED	ZONE 2
Skylights Maximum U-Value	TOWN OF MILTON	ZONE 2
Space Heating Equipment Minimum AFUE	MAR 29, 2017 JUNIPER 9	0.95
HRV Minimum Efficiency		65%
Domestic Hot Water Heater Minimum EF	BUILDING DIVISION	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: Region:	Ontario 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):	18.0							
Floor Width (m):	11.6							
Exposed Perimeter (m):	0.0							
Wall Height (m):	2.9	Insulation Configuration						
Depth Below Grade (m):	2.0	msulation Comiguration						
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	tion Loads						
Heating Load (Watts):		1935						

TYPE: JUNIPER 9

LO# 72387

WUP

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 9 BUILDING DIVISION



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

## **Air Infiltration Residential Load Calculator**

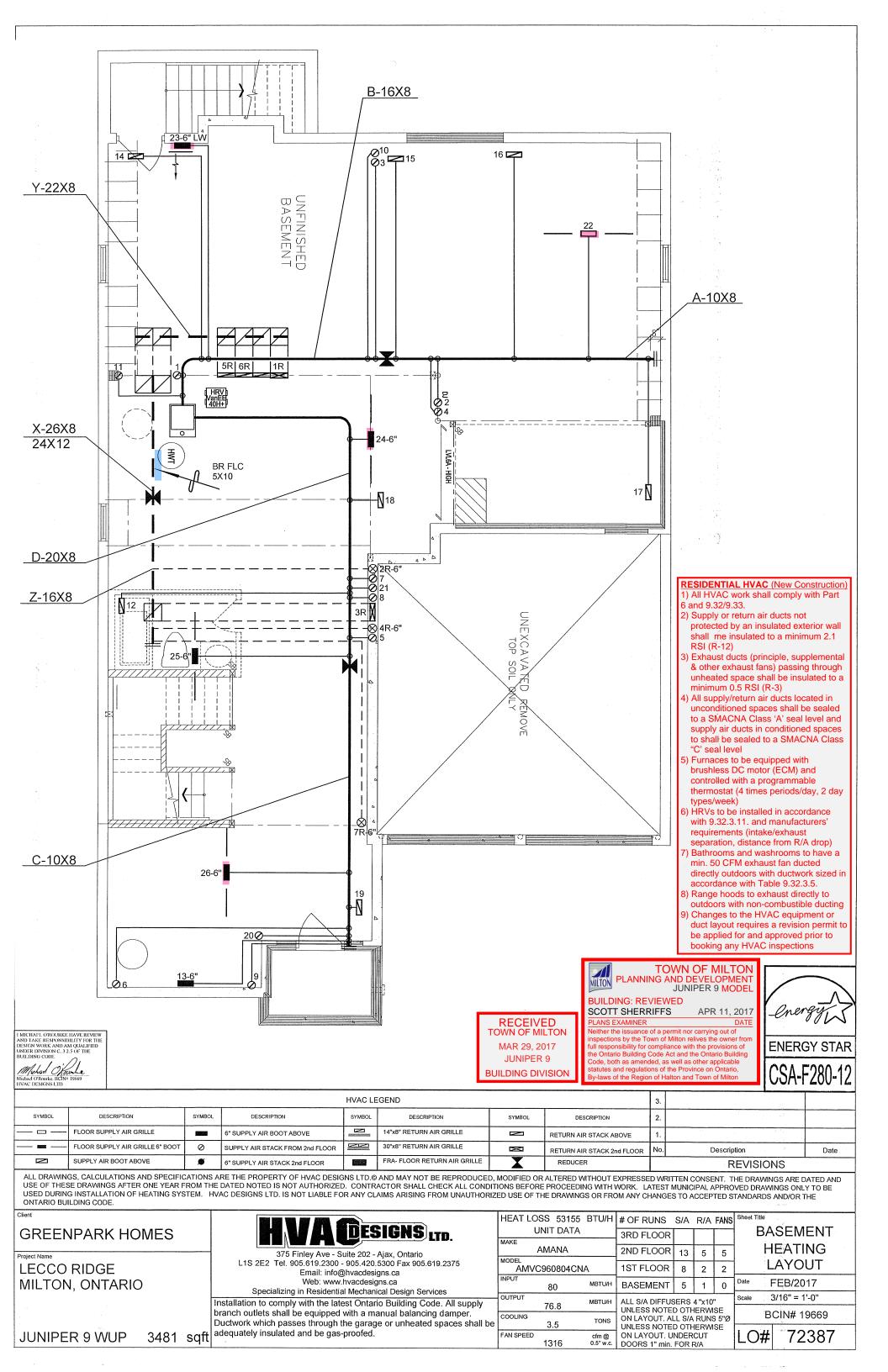
Supplemental tool for CAN/CSA-F280

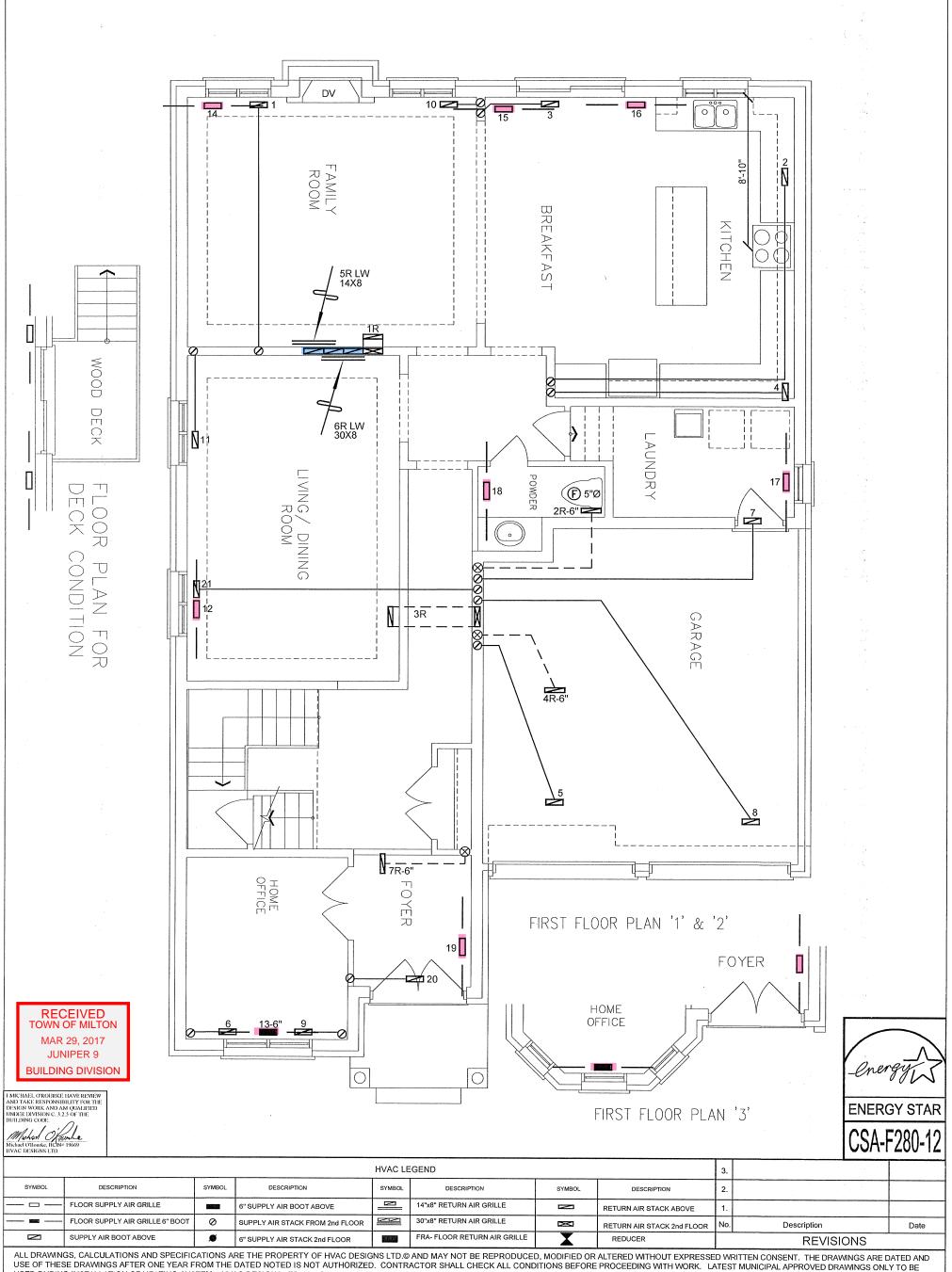
Weath	er Station Description
Province:	Ontario
Region:	Milton
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
	Local Shielding
Building Site:	Suburban, forest
Walls:	Heavy
Flue:	Heavy
Highest Ceiling Height (m):	6.71
Buil	ding Configuration
Type:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m³):	1358.3
Air L	eakage/Ventilation
Air Tightness Type:	Present (1961-) (3.57 ACH)
Custom BDT Data:	ELA @ 10 Pa. 1810.6 cm <sup>2</sup>
	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exhaust
	45.3 45.3
	Flue Size
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Natuı	ral Infiltration Rates
Heating Air Leakage Rate (A	CH/H): 0.307
Cooling Air Leakage Rate (A	CH/H): 0.105

**TYPE:** JUNIPER 9 **LO#** 72387

WUP

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 9 BUILDING DIVISION





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#### **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.



**BUILDING: REVIEWED** 

SCOTT SHERRIFFS PLANS EXAMINER

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relives the owner from 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 statutes and regulations of the Province on Ontario, by-laws of the Region of Halton and Town of Milton

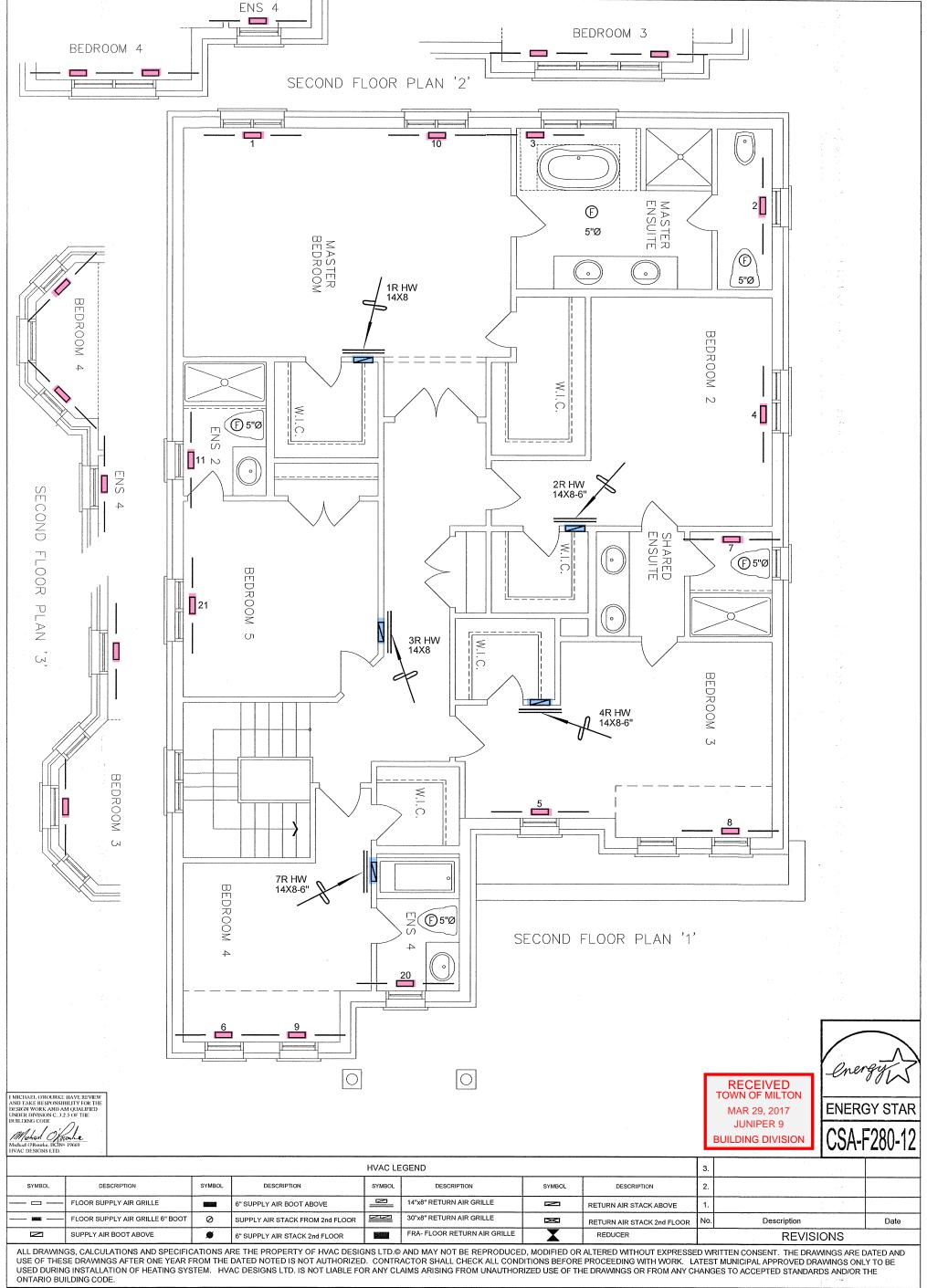
APR 11, 2017

### FIRST FLOOR **HEATING** LAYOUT

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

72387 LO#

JUNIPER 9 WUP 3481 sqft



### **GREENPARK HOMES**

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APR 11, 2017

**BUILDING: REVIEWED** SCOTT SHERRIFFS

PLANS EXAMINER

inspections by the Town of Milton relives the owner from 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 statutes and regulations of the Province on Ontario, By-laws of the Region of Halton and Town of Milton

SECOND FLOOR **HEATING** LAYOUT

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

72387 LO#

3481 sqft JUNIPER 9 WUP