

MILES MILE	SITE NAME:	LECCOR	RIDGE														DA TE	: Dec-1	6			WINTE	ER NA1	URALAIF	CHANGE	RATE 0.3	07	HEAT	LOSS A	ΛΤ°F.	72			CSA-F2	80.12
Month Mont	BUILDER:	GREENP	ARK F	HOMES			Т	YPE:	JUNIPER	11			GFA:	2961			LO#	71355																	
EUR. MAIL. APP 10 CATOMS 1	ROOM USE			N	IBR		ENS		٧	/IC	T	BED-2		Ĭ	BED	-3		BED-4			BATH	1		ENS-4	T							—Т			77711
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL HT LOSS BTU/H			41	59				61	42					1864			1964			3018				1						771		15	5968	
TOTAL HT GAIN x 1.3 BTU/H 5896 8941 3096 550 2212 194	TOTAL HT GAIN x 1.3 BTU/H		L_		5896	L				8941						3096			550			2212			_L							194			713

TOTAL HEAT GAIN BTU/H:

41390

TONS: 3.45

LOSS DUE TO VENTILATION LOAD BTU/H: 2354

STRUCTURAL HEAT LOSS: 47411

TOTAL COMBINED HEAT LOSS BTU/H: 49765

Mahad Kanta. INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE



		LECCO GREEN		MES				TYPE:	JUNIPER	R 11			DATE:	Dec-16			GFA:	2961	LO#	71355				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	47,411 27.76		TOTAL H IR FLOW F	LING CFM EAT GAIN RATE CFM	40.935 32.15		а	furr a/c coil vailable	pressure nace filter pressure pressure r s/a & r/a	0.6 0.05 0.2 0.35								804CNA SPEED LOW	1316	4	OUTPUT	AFUE = (BTU/H) = (BTU/H) =	80.000 76,800	
RUN COUNT S/A	4th 0	3rd 0	2nd 11	1st 7	Bas 5				ssure s/a	0.18			pressure	0.17			1	EDLOW MEDIUM			DESI	GN CFM = CFM @ .	1316 6 " E.S.P.	-
R/A All S/A diffusers 4"x10" unle	0 ess note:	0 d otherwis	5 e on lavo	2	1				ress. loss	0.02 0.16			ess. Loss essure r/a	0.02 0.15			MEDIU	M HIGH HIGH	0 1396	т	FMPERAT	URE RISE	54	°F
All S/A runs 5"Ø unless note			yout.					-							-4					•				
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT	1 MBR 1.44 40	2 ENS 1.58 44	3 WIC 0.62 17	4 BED-2 1.05 29	5 BED-3 2.26 63	6 BED-4 1.52 42	7 BATH 1.09 30	8 BED-4 1.52 42		10 MBR 1.44 40	11 ENS-4 0.99 28	12 LV/DN 2.08 58	13 LV/DN 2.08 58	14 KT/FM 2.05 57	15 KT/FM 2.05 57	16 KT/FM 2.05 57	1.86 52	18 W/R 1.96 55	19 FOY 3.02 84		21 BAS 3.35 93	22 BAS 3.35 93	23 BAS 3.35 93	24 BAS 3.35 93
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH.	2.32 75 0.17 38	2.00 64 0.17 40	0.78 25 0.17 34	1.95 63 0.17 33	3.23 104 0.16 42	2.54 82 0.16 58	0.46 15 0.17 34	2.54 82 0.16 47		2.32 75 0.17 43	1.20 38 0.17 35	2.95 95 0.16 37	2.95 95 0.16 33	2.98 96 0.16 26	2.98 96 0.16 20	2.98 96 0.16 32	3.10 100 0.16 36	0.55 18 0.17 27	2.21 71 0.16 19		0.18 6 0.16 23	0.18 6 0.16 25	0.18 6 0.16 12	0.18 6 0.16 27
EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE	150 188 0.09 5	120 160 0.11 5	160 194 0.09 4	100 133 0.13 4	130 172 0.09 6	130 188 0.09 5	140 174 0.1 4	130 177 0.09 5		130 173 0.1 5	120 155 0.11 4	130 167 0.1 5	130 163 0.1 5	120 146 0.11 5	130 150 0.11 5	100 132 0.12 5	120 156 0.1 6	100 127 0.14 4	120 139 0.12 5		110 133 0.12 5	110 135 0.12 5	130 142 0.11 5	140 167 0.1 5
HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	294 551 3X10 B	323 470 3X10 A	195 287 3X10 B	333 723 3X10 A	321 530 4X10 E	308 602 3X10 E	344 172 3X10 E	308 602 3X10 D		294 551 3X10 B	321 436 3X10 E	426 698 3X10 D	426 698 3X10 D	419 705 3X10 A	419 705 3X10 A	419 705 3X10 B	265 510 4X10 B	631 207 3X10 A	617 521 3X10 E		683 44 3X10 A	683 44 3X10 B	683 44 3X10 E	683 44 3X10 D
RUN#	25																							
ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH.	BAS 3.35 93 0.18																							
CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH.	6 0.16 36																							
EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min)	120 156 0.1 5 683 44																				Т	OWN O MAR 2	EIVED F MILT 29, 2017 ER 11F	ON 7
OUTLET GRILL SIZE	3X10																				ВІ	JILDING		
	U																T							
SUPPLY AIR TRUNK SIZE	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	RETURN A	AIR TRUN! TRUNK	STATIC	ROUND	RECT			VELOCITY
TRUNK A TRUNK C TRUNK C TRUNK D TRUNK E TRUNK F	335 299 634 344 684 0	0.11 0.09 0.09 0.09 0.09 0.09	8.6 8.7 11.5 9.1 11.8	10 10 18 10 18 10	x x x x x	8 8 8 8 8	(fl/min) 603 538 634 619 684 0		TRUNK G TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0	0 0 0 0 0 0	x x x x x	8 8 8 8 8	(ft/min) 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T	0 0 0 0 0 0	0.05 0.05 0.05 0.05 0.05 0.05 0.05	0 0 0 0 0 0	0 0 0 0 0 0	x x x x	8 8 8 8	(fl/min) 0 0 0 0 0
																	TRUNK V	0 0	0.05 0. 0 5	0 0	0 0	X X	8 8	0
RETURN AIR # AIR VOLUME	1 0 155	2 0 85	3 0 75	4 0 135	5 0 380	6 0 135	7 0 135	0	0	0	0	0	0	0	0	BR 216	TRUNK W TRUNK X TRUNK Y	270 1316 1100	0.05 0.05 0.05	9.7 17.5 16.3	12 28 30	X X	8 10 8	405 677 660
PLENUM PRESSURE ACTUAL DUCT LGH.	155 0.15 52	0.15 63	0.15 60	0.15 67	0.15 33	0.15 46	0.15 62	0,15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 16	TRUNK Z DROP	565 1316	0.05 0.05	12.7 17.5	18 24	X X X	8 12	565 658
EQUIVALENT LENGTH TOTAL EFFECTIVE LH	200 252	205 268	215 275	230 297	185 218	225 271	235 297	0	0	0	0	0	0	0	0	145 161					•		-	
ADJUSTED PRESSURE	0.06	0.06	0.05	0.05	0.07	0.05	0.05	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.09								
ROUND DUCT SIZE INLET GRILL SIZE	7.5 8	6 8	6 8	7.5 8	10.1 8	7.5 8	7.5 8	0	0	0	0	0	0	0	0	7.7 8								
INLET GRILL SIZE	X 14	X 14	X 14	X 14	X 30	X 14	X 14	X 0	X 0	X 0	X 0	X 0	X 0	X 0	X 0	X 24			Magicagonia con ca					



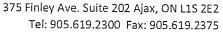
TYPE: SITE NAME: JUNIPER 11

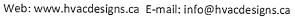
LECCO RIDGE

LO # 71355

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL V	ENTILATION CAPACITY		9.32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Cap	pacity	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 Supplemen	ntal Capacity	83.6	cfm
d) Solid Fuel (including fireplaces)					_
e) No Combustion Appliances		PRINCIPAL EXHAU	ST FAN CAPACITY		
		Model:	VANEE 40H+	Location:	BSMT
HEATING SYSTEM		86.0	cfm 3.0 sone	s	✓ HVI Approved
Forced Air Non Forced Air			ST HEAT LOSS CALCULATION		
		CFM 86.0 CFM	ΔT *F X 72 F X	FACTOR 1.08	% LOSS X 0.35
Electric Space Heat		SUPPLEMENTAL F	ANS	NUTONE	
		Location	Model	cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	✓ 0.3
	` '	BATH	QTXEN050C	50	✓ 0.3
I 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)					
III Any Type c) appliance		HEAT RECOVERY \ Model:	VENTILATOR VANEE 40H+		9.32.3.11.
IV Type I, or II with electric space heat		86	_ cfm high	37	cfm low
		65	% Sensible Efficiency		✓ HVI Approved
Other: Type I, II or IV no forced air			@ 32 deg F (0 deg C)		
		LOCATION OF INST	FALLATION		
SYSTEM DESIGN OPTIONS O	N.H.W.P.			RI	ECEIVED
1 Exhaust only/Forced Air System		Lot:		<u>c</u> TOW	N OF MILTON
,		Township	·	Pli	AR 29, 2017 JNIPER 11F
2 HRV with Ducting/Forced Air System		Address			DING DIVISION
→ 3 HRV Simplified/connected to forced air system		Roll#			
4 HRV with Ducting/non forced air system		BUILDER:	GR WITON PLANNI		OF MILTON DEVELOPMENT
Part 6 Design			WILTON	JUNIPI	ER 11F MODEL
		Name:	BUILDING: RE SCOTT SHERI		APR 11, 2017
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:	PLANS EXAMINER		DATE
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	Neither the issuance inspections by the Total full responsibility for	own of Milton r	elives the owner from
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u>	cfm	Telephone #:	the Ontario Building Code, both as amen	Code Act and	the Ontario Building
Kitchen & Bathrooms5 @ 10.6 cfm53	cfm	INSTALLING CONT	statutes and regulati	ons of the Prov	vince on Ontario,
Other Rooms 4 @ 10.6 cfm 42.4	cfm	Name:			
Table 9.32.3.A. TOTAL 169.6	cfm	Address:			
<u> </u>	V				
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.	.32.3.4.(1)	City:			
		Telephone #:	***************************************	Fax #:	
1 Bedroom 31.8 cfm		DESIGNER CERTIFI	CATION		
2 Bedroom 47.7 cfm			nis ventilation system has been de e Ontario Building Code.	signed	
3 Bedroom 63.6 cfm		Name:	HVAC Designs Ltd.		
4 Bedroom 79.5 cfm		Signature:	Meha	1 Ofmbe	
5 Bedroom 95.4 cfm		HRAI#		001820	
More than 5 - Part 6 TOTAL 79.5 cfm		Date:	D	ecember-16	
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIF	TED IN THE APPR	ROPRIATE CATEGORY AS AN	'OTHER DESIGNER" UNDER DIVISION C,	3.2.5 OF THE BUIL	DING CODE.







HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	JUNIPER 11			BUILDER: GREENPARK HOME	S
SFQT:	2961	LO#	71355	SITE: LECCO RIDGE	
DESIGN A	SSUMPTIONS				
HEATING			°F	COOLING	°F
	DESIGN TEMP.		0	OUTDOOR DESIGN TEMP.	86
INDOOR D	ESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	DATA				
ATTACHM	ENT:		DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Y
AIR CHANG	GES PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Υ
WIND EXP	OSURE:	9	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	LUME (ft³):		40435.5	ASSUMED (Y/N):	Y
INTERNAL	SHADING:	BLINDS,	/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR I	LIGHTING LOAD (Btu/	h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDATI	ON CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.5 ft
LENGTH:	38.5 ft	WIDTH:	50.0 ft	EXPOSED PERIMETER:	177.0 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	-	
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-V	alue	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	0.95	
HRV Minimum Efficiency	65%	
Domestic Hot Water Heater Minimum EF	BUILDING DIVISION	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):	11.7	
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):	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):		1731

TYPE: JUNIPER 11 **LO#** 71355

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 11F BUILDING DIVISION



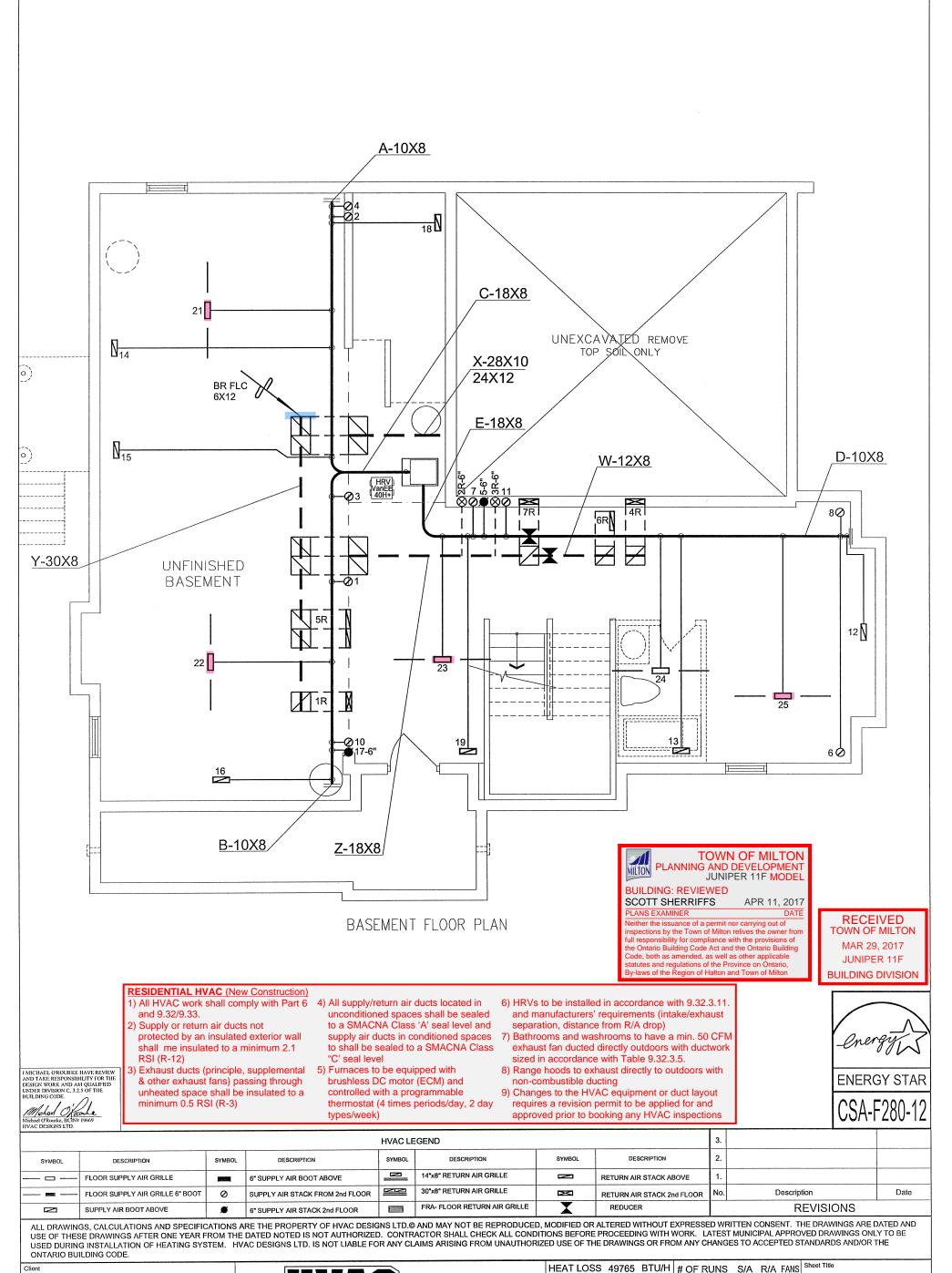
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

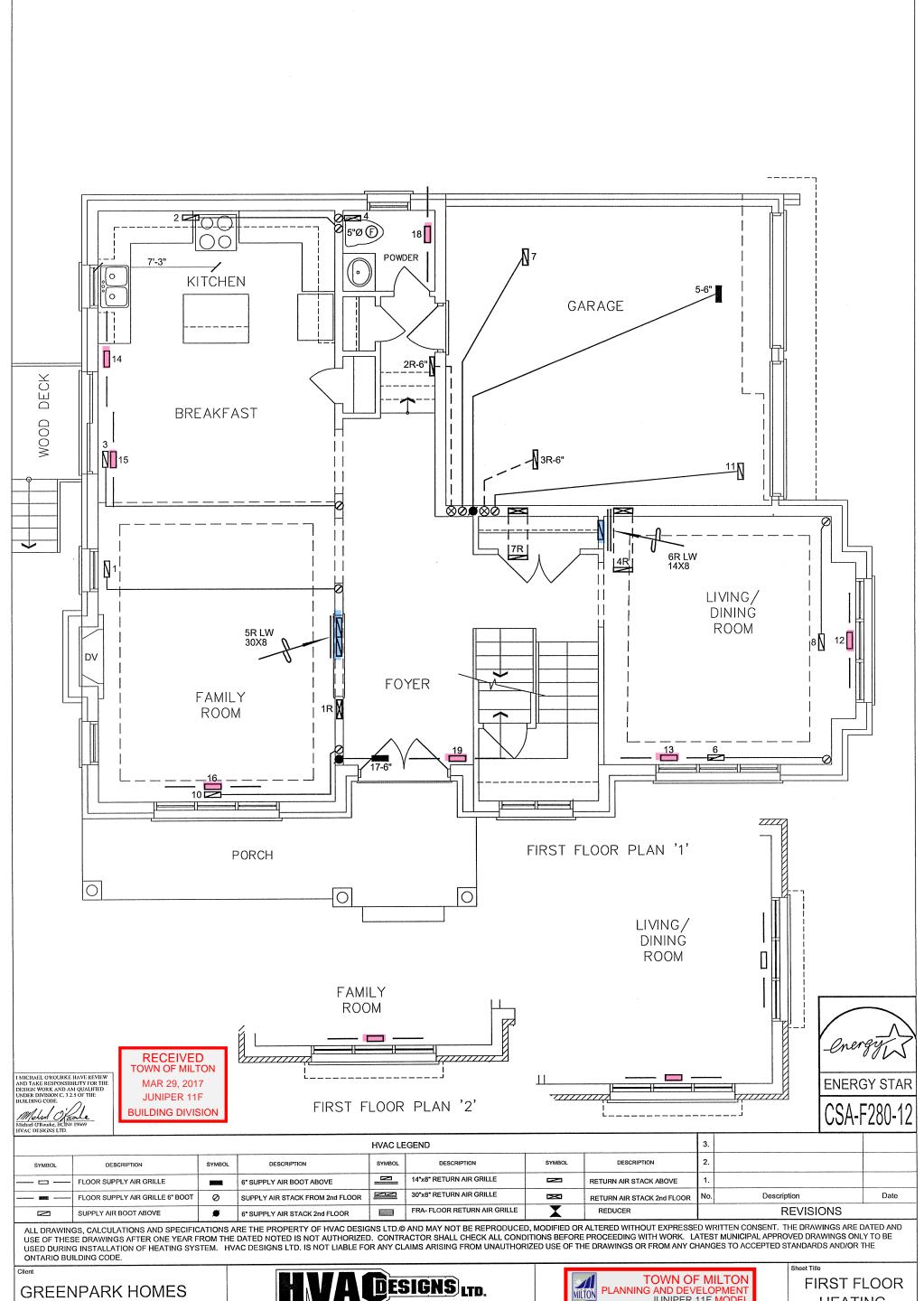
Weather S	Station Description
Province:	Ontario
Region:	Milton
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Loc	cal Shielding
Building Site:	Suburban, forest
Walls:	Heavy
Flue:	Heavy
Highest Ceiling Height (m):	6.71
Buildin	ng Configuration
Type:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m³):	1145.0
Air Leak	kage/Ventilation
Air Tightness Type:	Present (1961-) (3.57 ACH)
Custom BDT Data:	ELA @ 10 Pa. 1526.3 cm ²
	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exhaust
	40.6 40.6
	Flue Size
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Natural I	Infiltration Rates
Heating Air Leakage Rate (ACH	I/H): 0.307
Cooling Air Leakage Rate (ACH,	/H): 0.105

TYPE: JUNIPER 11 **LO#** 71355

RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 11F BUILDING DIVISION



BASEMENT **UNIT DATA** 3RD FLOOR GREENPARK HOMES **HEATING AMANA** 2ND FLOOR 11 5 3 375 Finley Ave - Suite 202 - Ajax, Ontario Project Name MODEL LAYOUT L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 1ST FLOOR 7 2 2 AMVC960804CNA LECCO RIDGE Email: info@hvacdesigns.ca INPUT DEC/2016 Date Web: www.hvacdesigns.ca MBTU/H 0 BASEMENT 5 1 MILTON, ONTARIO 80 Specializing in Residential Mechanical Design Services 3/16" = 1'-0" OUTPUT Scale ALL S/A DIFFUSERS 4 "x10" UNLESS NOTED OTHERWISE Installation to comply with the latest Ontario Building Code. All supply MBTU/H 76.8 BCIN# 19669 branch outlets shall be equipped with a manual balancing damper. COOLING ON LAYOUT, ALL S/A RUNS 5"@ Ductwork which passes through the garage or unheated spaces shall be TONS 3.5 UNLESS NOTED OTHERWISE adequately insulated and be gas-proofed. 71355 LO# FAN SPEED ON LAYOUT, UNDERCUT 2961 sqft **JUNIPER 11** DOORS 1" min. FOR R/A 1316



Project Name

LECCO RIDGE MILTON, ONTARIO

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

adequately insulated and be gas-proofed.

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

JUNIPER 11F MODEL **BUILDING: REVIEWED** SCOTT SHERRIFFS APR 11, 2017

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

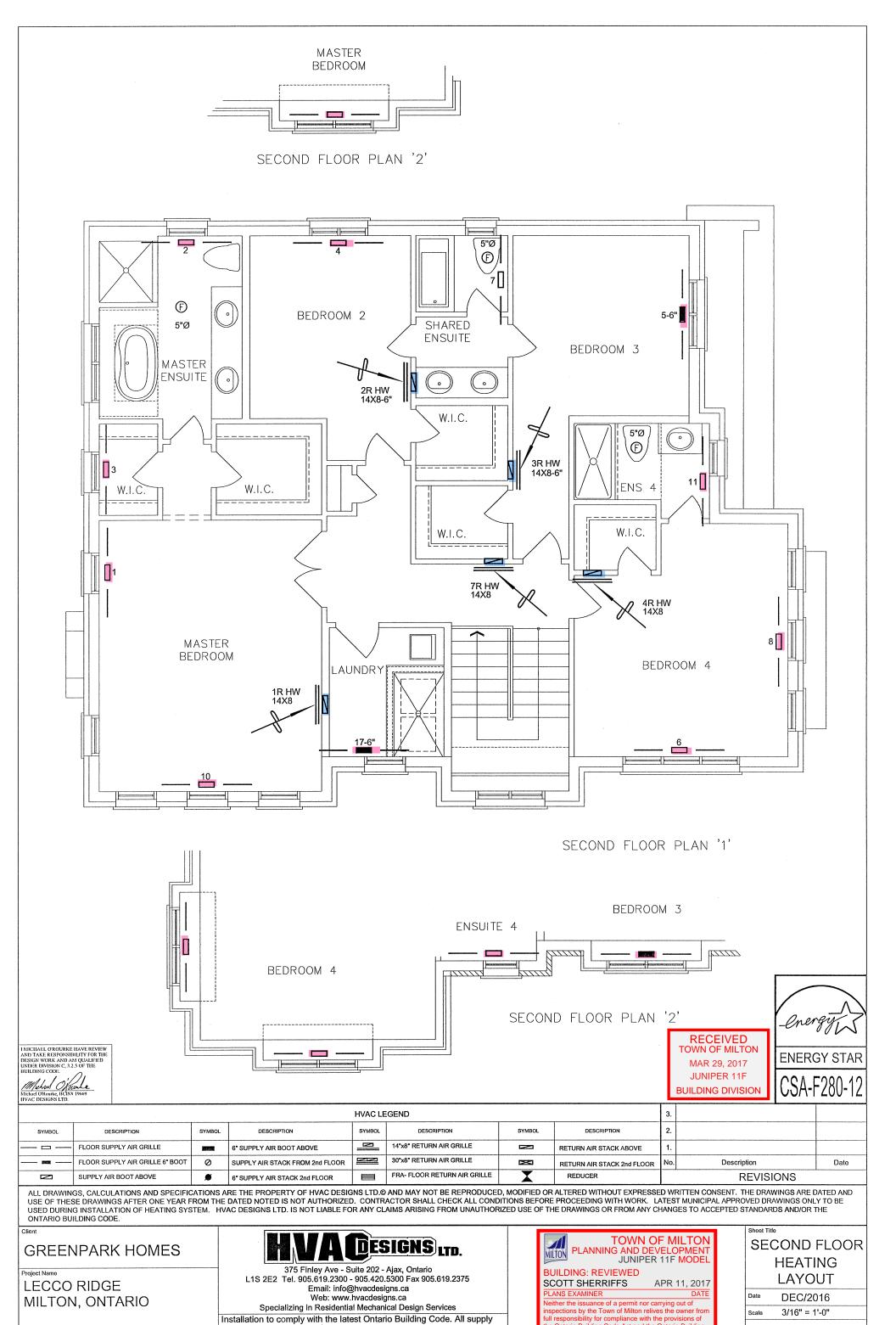
HEATING LAYOUT

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

71355

JUNIPER 11

2961 sqft



Installation to comply with the latest Ontario Building Code. All supply

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

branch outlets shall be equipped with a manual balancing damper.

JUNIPER 11

2961 sqft

3/16" = 1'-0"

BCIN# 19669

71355

Scale

LO#

he 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