

SITE NAME: LECCO RIDGE				LOT 317				DATE: Jun-17				WINTER NATURAL AIR CHANGE RATE 0.316				HEAT LOSS AT °F. 72				CSA-F280-12			
BUILDER: GREENPARK HOMES				TYPE: JUNIPER 9				LO# 74047				SUMMER NATURAL AIR CHANGE RATE 0.108				HEAT GAIN AT °F. 14				ENERGYSTAR			
ROOM USE																							
EXP. WALL																							
CLG. HT.																							
FACTORS																							
GRS.WALL AREA	LOSS	GAIN																					
GLAZING																							
NORTH	17.9	15.8	0	0	0	9	161	143								0	0	0					
EAST	17.9	41.4	0	0	0	0	0	0								0	0	0					
SOUTH	17.9	24.8	0	0	0	0	0	0								0	0	0					
WEST	17.9	41.4	34	607	1408	18	321	746								0	0	0					
SKYLT.	30.6	101.2	0	0	0	0	0	0								0	0	0					
DOORS	24.1	4.7	0	0	0	0	0	0								0	0	0					
NET EXPOSED WALL	2.6	0.5	326	853	165	225	589	114								74	194	37					
NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0								0	0	0					
EXPOSED CLG	1.4	0.7	315	434	216	159	219	109								180	248	123					
NO ATTIC EXPOSED CLG	2.2	1.1	0	0	0	28	63	31								0	0	0					
EXPOSED FLOOR	2.2	0.4	0	0	0	0	0	0								0	0	0					
BASEMENT/CRAWL HEAT LOSS			0			0										0							
SLAB ON GRADE HEAT LOSS			0			0										0							
SUBTOTAL HT LOSS			1894			1353										567							
SUB TOTAL HT GAIN				1789			1142									334							
LEVEL FACTOR / MULTIPLIER	0.20	0.34				0.20	0.34					0.20	0.34			0.20	0.34						
AIR CHANGE HEAT LOSS			653			466										195							
AIR CHANGE HEAT GAIN				166		106										31							
DUCT LOSS			0			0										0							
DUCT GAIN			0			0										0							
HEAT GAIN PEOPLE	240		2		480	0		0				1		240	0		0						
HEAT GAIN APPLIANCES/LIGHTS					838			0						838			0						
TOTAL HT LOSS BTU/H			2547			1819						1273		3708			762						
TOTAL HT GAIN x 1.3 BTU/H				4255		1623						2083		5319			475						

ROOM USE																							
EXP. WALL																							
CLG. HT.																							
FACTORS																							
GRS.WALL AREA	LOSS	GAIN																					
GLAZING																							
NORTH	17.9	15.8	0	0	0	0	0	0								0	0	0					
EAST	17.9	41.4	0	0	0	31	553	1284								0	0	0					
SOUTH	17.9	24.8	38	678	941	0	0	0								0	0	0					
WEST	17.9	41.4	0	0	0	0	0	0								0	0	0					
SKYLT.	30.6	101.2	0	0	0	0	0	0								0	0	0					
DOORS	24.1	4.7	0	0	0	0	0	0								0	0	0					
NET EXPOSED WALL	2.6	0.5	193	505	98	376	984	190								228	761	147					
NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0								0	0	0					
EXPOSED CLG	1.4	0.7	0	0	0	0	0	0								0	0	0					
NO ATTIC EXPOSED CLG	2.2	1.1	0	0	0	0	0	0								0	0	0					
EXPOSED FLOOR	2.2	0.4	0	0	0	0	0	0								0	0	0					
BASEMENT/CRAWL HEAT LOSS			0			0										0							
SLAB ON GRADE HEAT LOSS			0			0										0							
SUBTOTAL HT LOSS			1183			1537										761							
SUB TOTAL HT GAIN				1039		1474										147							
LEVEL FACTOR / MULTIPLIER	0.30	0.61				0.30	0.61					0.30	0.61			0.50	1.05						
AIR CHANGE HEAT LOSS			720			935										10058							
AIR CHANGE HEAT GAIN				97		137										63							
DUCT LOSS			0			0										0							
DUCT GAIN			0			0										0							
HEAT GAIN PEOPLE	240		0		0	0		1				1		240	0		0						
HEAT GAIN APPLIANCES/LIGHTS					838			838						838			0						
TOTAL HT LOSS BTU/H			1903			2473						1971		463			18857						
TOTAL HT GAIN x 1.3 BTU/H				2565		3184						1896		79			776						

TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-7103
BUILDING: REVIEWED
SCOTT SHERRIFFS JUN 15, 2017
PLANS EXAMINER **DATE**
 Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves 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 of Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION

TOTAL HEAT GAIN BTU/H: 41666

TONS: 3.47

LOSS DUE TO VENTILATION LOAD BTU/H: 2552

STRUCTURAL HEAT LOSS: 51988

TOTAL COMBINED HEAT LOSS BTU/H: 54541

SITE NAME: LECCO RIDGE
BUILDER: GREENPARK HOMES

LOT 317
TYPE: JUNIPER 9

DATE: Jun-17

GFA: 3467 LO# 74047

HEATING CFM 1316 COOLING CFM 1316
TOTAL HEAT LOSS 51,988 TOTAL HEAT GAIN 41,173
AIR FLOW RATE CFM 25.31 AIR FLOW RATE CFM 31.96

furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure
for s/a & r/a 0.35

~*AMANA
AMVC960804CNA
FAN SPEED 80

AFUE = 96.0 %
INPUT (BTU/H) = 80,000
OUTPUT (BTU/H) = 76,800

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	13	8	5
R/A	0	0	5	2	1

plenium pressure s/a 0.18 r/a pressure 0.17
max s/a dif press. loss 0.02 r/a grille press. Loss 0.02
min adjusted pressure s/a 0.16 adjusted pressure r/a 0.15

LOW 1316
MEDLOW 0
MEDIUM 1389
MEDIUM HIGH 0
HIGH 1396

DESIGN CFM = 1316
CFM @ .6" E.S.P.

TEMPERATURE RISE 54 °F

All S/A diffusers 4"x10" unless noted otherwise on layout.

All S/A runs 5'Ø unless noted otherwise on layout.

RUN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME	MBR	ENS	ENS	BED-2	BED-3	BED-4	BATH	BED-3	BED-4	MBR	ENS-2	LV/DN	OFF	KT/FM	KT/FM	KT/FM	LAUN	W/R	FOY	ENS-4	BED-5	BAS	BAS	BAS
RM LOSS MBH.	1.27	0.91	0.91	1.27	1.85	1.62	1.06	1.85	1.62	1.27	0.76	1.90	2.47	2.14	2.14	2.14	1.97	0.46	2.71	0.90	1.11	3.92	3.92	3.92
CFM PER RUN HEAT	32	23	23	32	47	41	27	47	41	32	19	48	63	54	54	54	50	12	69	23	28	99	99	99
RM GAIN MBH.	2.13	0.81	0.81	2.08	2.66	2.44	0.45	2.66	2.44	2.13	0.47	2.56	3.18	2.99	2.99	2.99	1.90	0.08	1.54	0.74	2.15	0.19	0.19	0.19
CFM PER RUN COOLING	68	26	26	67	85	78	14	85	78	68	15	82	102	96	96	96	61	3	49	24	69	6	6	6
ADJUSTED PRESSURE	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
ACTUAL DUCT LGH.	27	59	43	47	47	75	51	50	66	41	21	39	59	22	31	39	44	19	45	65	50	38	18	13
EQUIVALENT LENGTH	160	150	120	160	120	160	160	130	130	130	170	140	140	150	140	110	110	140	130	140	150	100	110	150
TOTAL EFFECTIVE LENGTH	187	209	163	207	167	235	211	180	196	171	191	179	199	172	171	149	154	159	175	205	200	138	128	163
ADJUSTED PRESSURE	0.09	0.08	0.11	0.08	0.1	0.07	0.08	0.09	0.09	0.1	0.09	0.09	0.08	0.09	0.09	0.11	0.11	0.11	0.1	0.08	0.09	0.12	0.13	0.1
ROUND DUCT SIZE	5	4	4	5	5	6	4	5	5	5	4	5	6	6	6	5	5	4	5	4	5	5	5	6
HEATING VELOCITY (ft/min)	235	264	264	235	345	209	310	345	301	235	218	352	321	275	275	396	367	138	507	264	206	727	727	505
COOLING VELOCITY (ft/min)	499	298	298	492	624	398	161	624	573	499	172	602	520	489	489	705	448	34	360	275	507	44	44	31
OUTLET GRILL SIZE	3X10	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10
TRUNK	B	A	B	A	D	C	D	D	C	B	B	D	C	B	A	A	A	D	C	C	D	A	B	D

RUN #	25	26
ROOM NAME	BAS	BAS
RM LOSS MBH.	3.92	3.92
CFM PER RUN HEAT	99	99
RM GAIN MBH.	0.19	0.19
CFM PER RUN COOLING	6	6
ADJUSTED PRESSURE	0.16	0.16
ACTUAL DUCT LGH.	37	49
EQUIVALENT LENGTH	120	140
TOTAL EFFECTIVE LENGTH	157	189
ADJUSTED PRESSURE	0.1	0.09
ROUND DUCT SIZE	6	6
HEATING VELOCITY (ft/min)	505	505
COOLING VELOCITY (ft/min)	31	31
OUTLET GRILL SIZE	4X10	4X10
TRUNK	D	C

RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION

SUPPLY AIR TRUNK SIZE																RETURN AIR TRUNK SIZE									
	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT		VELOCITY (ft/min)		TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT		VELOCITY (ft/min)			TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT		VELOCITY (ft/min)				
TRUNK A	312	0.08	9.1	10	x	8	562	TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.05	0	0	x	8	0		
TRUNK B	571	0.08	11.4	16	x	8	642	TRUNK H	0	0.00	0	0	x	8	0	TRUNK P	0	0.05	0	0	x	8	0		
TRUNK C	336	0.07	9.6	10	x	8	605	TRUNK I	0	0.00	0	0	x	8	0	TRUNK Q	0	0.05	0	0	x	8	0		
TRUNK D	743	0.07	13	20	x	8	669	TRUNK J	0	0.00	0	0	x	8	0	TRUNK R	0	0.05	0	0	x	8	0		
TRUNK E	0	0.00	0	0	x	8	0	TRUNK K	0	0.00	0	0	x	8	0	TRUNK S	0	0.05	0	0	x	8	0		
TRUNK F	0	0.00	0	0	x	8	0	TRUNK L	0	0.00	0	0	x	8	0	TRUNK T	0	0.05	0	0	x	8	0		
																TRUNK U	0	0.05	0	0	x	8	0		
																TRUNK V	0	0.05	0	0	x	8	0		
																TRUNK W	0	0.05	0	0	x	8	0		
RETURN AIR #	1	2	3	4	5	6	7							BR		TRUNK X	886	0.05	15.1	26	x	8	613		
AIR VOLUME	135	85	175	85	175	345	85	0	0	0	0	0	0	0	231	TRUNK Y	655	0.05	13.5	22	x	8	536		
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	430	0.05	11.5	16	x	8	484		
ACTUAL DUCT LGH.	42	58	57	59	22	24	54	1	1	1	1	1	1	1	14	DROP	1316	0.05	17.5	24	x	12	658		
EQUIVALENT LENGTH	230	185	160	195	185	225	205	0	0	0	0	0	0	0	145										
TOTAL EFFECTIVE LH	272	243	217	254	207	249	259	1	1	1	1	1	1	1	159										
ADJUSTED PRESSURE	0.05	0.06	0.07	0.06	0.07	0.06	0.06	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.09										
ROUND DUCT SIZE	7.5	6	7.5	6	7.5	10.1	6	0	0	0	0	0	0	0	7.9										
INLET GRILL SIZE	8	8	8	8	8	8	8	0	0	0	0	0	0	0	8										
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
INLET GRILL SIZE	14	14	14	14	14	30	14	0	0	0	0	0	0	0	24										

TYPE: JUNIPER 9
SITE NAME: LECCO RIDGE

LO # 74047
LOT 317

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES		9.32.3.1(1)
e)	<input checked="" type="checkbox"/> Direct vent (sealed combustion) only	
b)	<input type="checkbox"/> Positive venting induced draft (except fireplaces)	
c)	<input type="checkbox"/> Natural draft, B-vent or induced draft gas fireplace	
d)	<input type="checkbox"/> Solid Fuel (including fireplaces)	
e)	<input type="checkbox"/> No Combustion Appliances	

HEATING SYSTEM	
<input checked="" type="checkbox"/> Forced Air	<input type="checkbox"/> Non Forced Air
<input type="checkbox"/> Electric Space Heat	

HOUSE TYPE		9.32.1(2)
<input checked="" type="checkbox"/> I	Type e) or b) appliance only, no solid fuel	
<input type="checkbox"/> II	Type I except with solid fuel (including fireplaces)	
<input type="checkbox"/> III	Any Type c) appliance	
<input type="checkbox"/> IV	Type I, or II with electric space heat	
<input type="checkbox"/>	Other: Type I, II or IV no forced air	

SYSTEM DESIGN OPTIONS		O.N.H.W.P.
<input type="checkbox"/> 1	Exhaust only/Forced Air System	
<input type="checkbox"/> 2	HRV with Ducting/Forced Air System	
<input checked="" type="checkbox"/> 3	HRV Simplified/connected to forced air system	
<input type="checkbox"/> 4	HRV with Ducting/non forced air system	
<input type="checkbox"/>	Part 6 Design	

TOTAL VENTILATION CAPACITY		9.32.3.3(1)
Basement + Master Bedroom	2 @ 21.2 cfm	42.4 cfm
Other Bedrooms	4 @ 10.6 cfm	42.4 cfm
Kitchen & Bathrooms	6 @ 10.6 cfm	63.6 cfm
Other Rooms	5 @ 10.6 cfm	53.0 cfm
Table 9.32.3.A. TOTAL		201.4 cfm

PRINCIPAL VENTILATION CAPACITY REQUIRED		9.32.3.4.(1)
1 Bedroom	31.8	cfm
2 Bedroom	47.7	cfm
3 Bedroom	63.6	cfm
4 Bedroom	79.5	cfm
5 Bedroom	95.4	cfm
More than 5 - Part 6	TOTAL	95.4 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	201.4	cfm
Less Principal Ventil. Capacity	96	cfm
Required Supplemental Capacity	105.4	cfm

PRINCIPAL EXHAUST FAN CAPACITY			
Model: VANEE 50H	Location: BSMT		
96.0 cfm	3.0 sones		
<input checked="" type="checkbox"/> HVI Approved			
PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	ΔT °F	FACTOR	% LOSS
96.0 CFM	X 72 F	X 1.08	X 0.34

SUPPLEMENTAL FANS		NUTONE	
Location	Model	cfm	HVI
ENS	QTXEN050C	50	<input checked="" type="checkbox"/>
BATH	QTXEN050C	50	<input checked="" type="checkbox"/>
ENS-2	QTXEN050C	50	<input checked="" type="checkbox"/>
W/R	QTXEN050C	50	<input checked="" type="checkbox"/>

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 50H		
96 cfm high	47 cfm low	
66 % Sensible Efficiency	<input checked="" type="checkbox"/> HVI Approved	
@ 32 deg F (0 deg C)		

LOCATION OF INSTALLATION	
Lot:	Co
Township	Pl
Address	
Roll #	

RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION

TOWN OF MILTON PLANNING AND DEVELOPMENT BUILDING PERMIT: 17-7103	
BUILDING: REVIEWED	DATE
SCOTT SHERRIFFS	JUN 15, 2017
PLANS EXAMINER	
Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves 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 of Ontario, By-laws of the Region of Halton and Town of Milton	

INSTALLING CONTRACTOR	
Name:	
Address:	
City:	
Telephone #:	Fax #:

DESIGNER CERTIFICATION	
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.	
Name:	HVAC Designs Ltd.
Signature:	<i>Michael O'Rourke</i>
HRAI #	001820
Date:	May-17

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: JUNIPER 9	LOT 317	BUILDER: GREENPARK HOMES
SFQT: 3467	LO# 74047	SITE: LECCO RIDGE

DESIGN ASSUMPTIONS

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	0	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72

BUILDING DATA

ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	47572.5	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	6
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.50	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.5 ft
LENGTH: 58.0 ft	WIDTH: 38.0 ft	EXPOSED PERIMETER:	192.0 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	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10
Windows and Sliding Glass Doors Maximum U-Value	ZONE 2
Skylights Maximum U-Value	ZONE 2
Space Heating Equipment Minimum AFUE	0.95
HRV Minimum Efficiency	65%
Domestic Hot Water Heater Minimum EF	90% TE

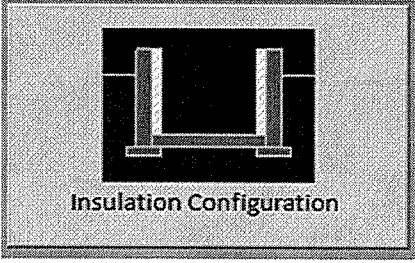
RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Milton	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	17.7	 Insulation Configuration
Floor Width (m):	11.6	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.9	
Depth Below Grade (m):	2.0	
Window Area (m ²):	0.8	
Door Area (m ²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):		1938

TYPE: JUNIPER 9
LO# 74047

LOT 317

RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION

Air Infiltration Residential Load Calculator

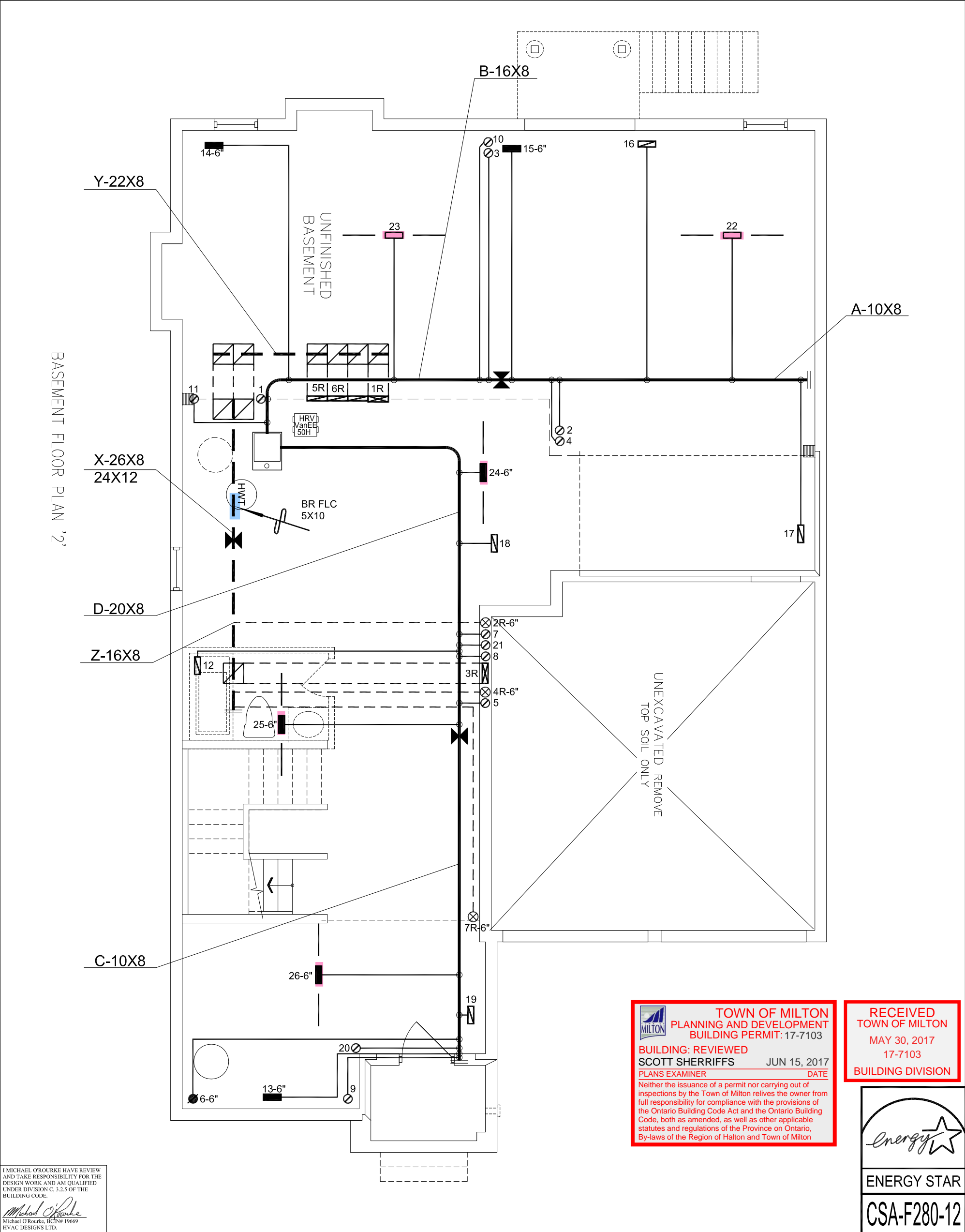
Supplemental tool for CAN/CSA-F280

Weather 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):	7.01			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	1391.2			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa. 3.57	1854.6 cm ² ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply 45.3	Total Exhaust 45.3		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):		0.316		
Cooling Air Leakage Rate (ACH/H):		0.108		

TYPE: JUNIPER 9
LO# 74047

LOT 317

RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION



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

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.



TOWN OF MILTON

PLANNING AND DEVELOPMENT

BUILDING PERMIT: 17-7103

BUILDING: REVIEWED

SCOTT SHERRIFFS


JUN 15, 2017

PLANS EXAMINER

DATE













Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves 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 of Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7103
BUILDING DIVISION



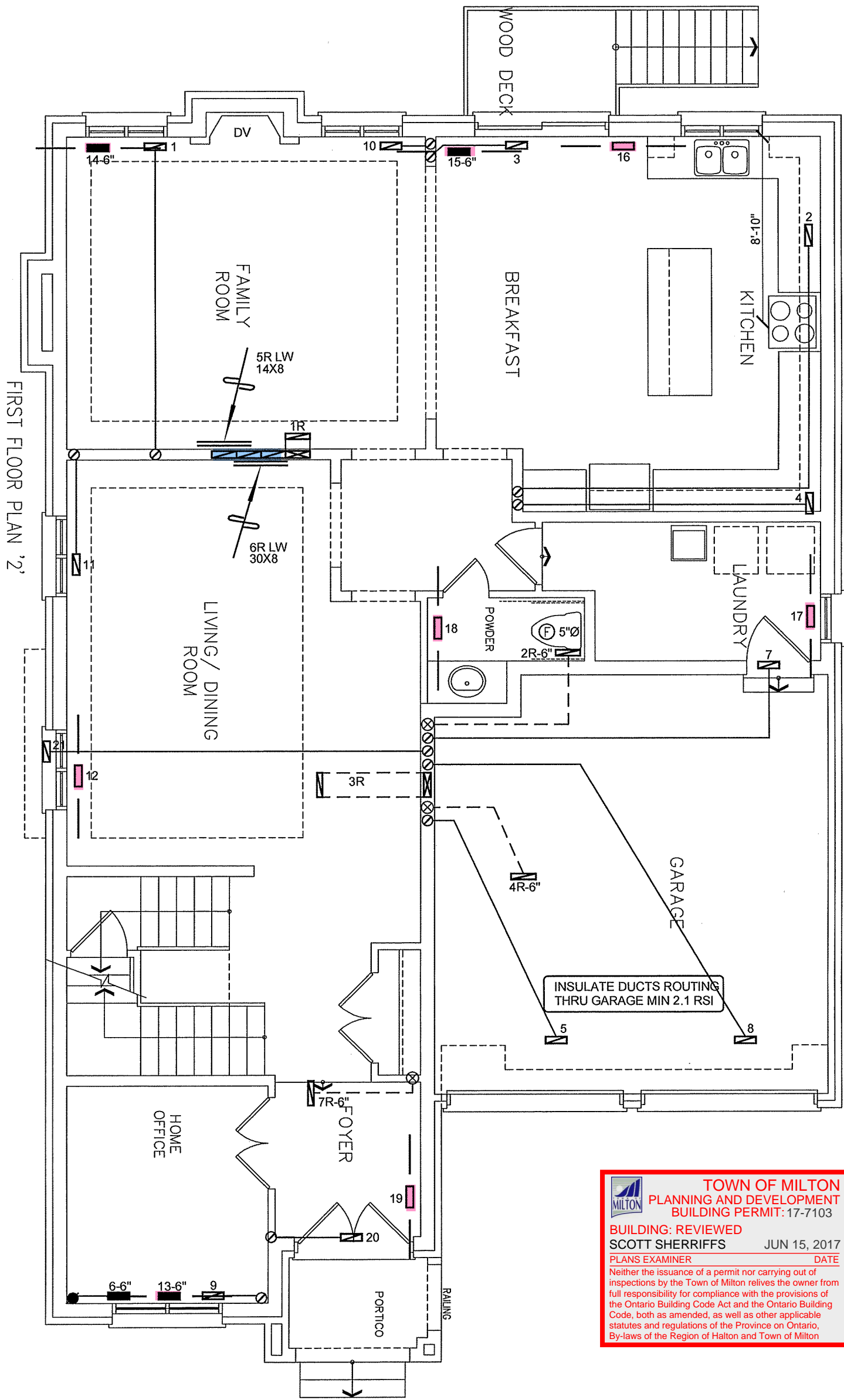
ENERGY STAR

CSA-F280-12

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

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD.© AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

Client		<div><div>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</div></div> <div>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.</div>	HEAT LOSS 54541 BTU/H		# OF RUNS			Sheet Title		
GREENPARK HOMES			UNIT DATA		3RD FLOOR			BASEMENT		
Project Name			MAKE		2ND FLOOR			HEATING		
LECCO RIDGE			MODEL		1ST FLOOR			LAYOUT		
MILTON, ONTARIO			AMVC960804CNA		BASEMENT			Date		
LOT 317			INPUT		5			MAY/2017		
JUNIPER 9			80		1			Scale		
3481 sqft			80		0			3/16" = 1'-0"		
			OUTPUT		76.8			BCIN# 19669		
			COOLING		3.5			LO#		
			FAN SPEED		1316			74047		
			cfm @ 0.5" w.c.		ALL S/A DIFFUSERS 4 "x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5'Ø UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A					



I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.3 OF THE BUILDING CODE.

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.



TOWN OF MILTON

PLANNING AND DEVELOPMENT

BUILDING PERMIT: 17-7103

BUILDING: REVIEWED

SCOTT SHERRIFFS

JUN 15, 2017

PLANS EXAMINER

DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves 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 of Ontario, By-laws of the Region of Halton and Town of Milton


RECEIVED

TOWN OF MILTON

MAY 30, 2017

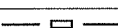



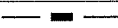







17-7103

BUILDING DIVISION



ENERGY STAR

CSA-F280-12

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

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD.© AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

Client

GREENPARK HOMES

Project Name

LECCO RIDGE
MILTON, ONTARIO

LOT 317
JUNIPER 9

3481 sqft



375 Finley Ave - Suite 202 - Ajax, Ontario
L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375
Email: info@hvacdsgns.ca
Web: www.hvacdsgns.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

FIRST FLOOR
HEATING
LAYOUT

Date

MAY/2017

Scale

3/16" = 1'-0"

BCIN# 19669

LO#

74047

