

SITE NAME: LECCO RIDGE

LOT 119

DATE: Jun-17

WINTER NATURAL AIR CHANGE RATE 0.316

HEAT LOSS AT °F. 72

CSA-F280-12

BUILDER: GREENPARK HOMES

TYPE: JUNIPER 7

GFA: 3129

LO# 74045

SUMMER NATURAL AIR CHANGE RATE 0.108

HEAT GAIN AT °F. 14

ENERGYSTAR

ROOM USE	EXP. WALL	CLG. HT.	FACTORS	LOSS	GAIN	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	ENS-2
						34	28	7	14	42	14	7	22
						10	9	9	9	10	9	9	9
GRS.WALL AREA	LOSS	GAIN				340	252	63	126	420	126	63	198
GLAZING	LOSS	GAIN											
NORTH	17.9	15.8	0	0	0	0	0	0	0	0	0	0	0
EAST	17.9	41.4	0	0	0	0	0	0	33	589	1367	44	785
SOUTH	17.9	24.8	0	0	0	14	250	347	0	0	0	15	268
WEST	17.9	41.4	40	714	1657	13	232	538	7	125	290	7	125
SKYLT.	30.6	101.2	0	0	0	0	0	0	0	0	0	0	0
DOORS	24.1	4.7	0	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	2.6	0.5	300	785	152	225	589	114	93	243	47	376	984
NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.4	0.7	288	397	197	195	269	134	112	154	77	172	237
NO ATTIC EXPOSED CLG	2.2	1.1	0	0	0	0	0	0	20	45	22	138	310
EXPOSED FLOOR	2.2	0.4	0	0	0	0	0	0	192	421	81	20	44
BASEMENT/CRAWL HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL HT LOSS			1896			1339			426			508	
SUB TOTAL HT GAIN				2006			1133			1635		306	
LEVEL FACTOR / MULTIPLIER	0.20	0.34				0.20	0.34		0.20	0.34		0.20	0.34
AIR CHANGE HEAT LOSS			638			451			517			285	
AIR CHANGE HEAT GAIN				175		99		34		142		50	
DUCT LOSS			0			0			205			319	
DUCT GAIN			0			0			274			347	
HEAT GAIN PEOPLE	240	2	480		1	240		0	1	240		1	240
HEAT GAIN APPLIANCES/LIGHTS			724			724		0		724			724
TOTAL HT LOSS BTU/H			2534			1790		569	2257	3508		1133	
TOTAL HT GAIN x 1.3 BTU/H				4399			2853		558		3920		4963

TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-7100

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

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ROOM USE	EXP. WALL	CLG. HT.	FACTORS	LOSS	GAIN	LV/DN	OFF	KT/FM	LAUN	W/R	FOY	MUD	WUB	BAS
						26	23	78	11	7	20	28	15	180
						11	11	11	9	11	11	12	9	9
GRS.WALL AREA	LOSS	GAIN				286	253	858	99	77	220	336	135	1080
GLAZING	LOSS	GAIN												
NORTH	17.9	15.8	0	0	0	0	0	0	7	125	111	0	0	15
EAST	17.9	41.4	0	0	0	31	553	1284	0	0	0	6	107	249
SOUTH	17.9	24.8	38	678	941	0	0	0	0	0	0	0	0	0
WEST	17.9	41.4	0	0	0	0	0	0	0	0	0	0	0	0
SKYLT.	30.6	101.2	0	0	0	0	0	0	0	0	0	0	0	0
DOORS	24.1	4.7	0	0	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	2.6	0.5	248	649	125	222	581	112	92	241	47	70	183	35
NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.4	0.7	0	0	0	0	0	0	253	349	173	0	0	0
NO ATTIC EXPOSED CLG	2.2	1.1	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	0	0	0
BASEMENT/CRAWL HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL HT LOSS			1327			1134		3944	714			1400		1445
SUB TOTAL HT GAIN				1067			1396			331		746		391
LEVEL FACTOR / MULTIPLIER	0.30	0.56				0.30	0.56		0.20	0.34		0.30	0.56	
AIR CHANGE HEAT LOSS			747			638		2219	240			788		813
AIR CHANGE HEAT GAIN				93		121		433		29		65		34
DUCT LOSS			0			0			0			0		
DUCT GAIN			0			0			0			0		
HEAT GAIN PEOPLE	240	0	0	0	0	0	1	240	1	240	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS			724			724		724		724		0		724
TOTAL HT LOSS BTU/H			2074			1772		6163	955	481		2188		2258
TOTAL HT GAIN x 1.3 BTU/H				2448			2914		8290		1720		295	

TOTAL HEAT GAIN BTU/H: 41002

TONS: 3.42

LOSS DUE TO VENTILATION LOAD BTU/H: 2354

STRUCTURAL HEAT LOSS: 48216

TOTAL COMBINED HEAT LOSS BTU/H: 50570



SITE NAME: LECCO RIDGE
BUILDER: GREENPARK HOMES

LOT 119
TYPE: JUNIPER 7

DATE: Jun-17

GFA: 3129 LO# 74045

HEATING CFM 1316 COOLING CFM 1316
TOTAL HEAT LOSS 48,216 TOTAL HEAT GAIN 40,547
AIR FLOW RATE CFM 27.29 AIR FLOW RATE CFM 32.46

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	12	8	5
R/A	0	0	4	2	1

plenium pressure s/a 0.18 r/a pressure 0.17
max s/a dif press. loss 0.03 r/a grille press. Loss 0.02
min adjusted pressure s/a 0.15 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	WIC	BED-2	BED-3	BED-4	BATH	BED-3	ENS	MBR	ENS-2	OFF	LV/DN	KT/FM	KT/FM	KT/FM	LAUN	W/R	FOY	MUD	BAS	BAS	BAS	BAS
RM LOSS MBH.	1.27	0.90	0.57	2.26	1.75	1.13	0.75	1.75	0.90	1.27	1.47	1.77	2.07	2.05	2.05	2.05	0.95	0.48	2.19	2.26	3.66	3.66	3.66	3.66
CFM PER RUN HEAT	35	24	16	62	48	31	20	48	24	35	40	48	57	56	56	56	26	13	60	62	100	100	100	100
RM GAIN MBH.	2.20	1.43	0.56	3.92	2.48	2.06	0.48	2.48	1.43	2.20	1.93	2.91	2.45	2.76	2.76	2.76	1.72	0.30	1.05	1.49	0.23	0.23	0.23	0.23
CFM PER RUN COOLING	71	46	18	127	81	67	15	81	46	71	63	95	79	90	90	90	56	10	34	48	8	8	8	8
ADJUSTED PRESSURE	0.17	0.17	0.17	0.15	0.16	0.17	0.17	0.16	0.17	0.17	0.17	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH.	57	29	49	43	41	21	50	46	27	47	49	29	7	44	31	23	42	22	34	39	52	16	12	26
EQUIVALENT LENGTH	140	170	120	130	140	190	130	170	180	130	120	110	130	150	110	130	130	160	120	110	150	120	120	100
TOTAL EFFECTIVE LENGTH	197	199	169	173	181	211	180	216	207	177	169	139	137	194	141	153	172	182	154	149	202	136	132	126
ADJUSTED PRESSURE	0.09	0.09	0.1	0.09	0.09	0.08	0.1	0.08	0.08	0.1	0.1	0.12	0.13	0.08	0.11	0.11	0.1	0.09	0.11	0.12	0.08	0.12	0.12	0.13
ROUND DUCT SIZE	5	4	4	6	5	5	4	5	4	5	5	5	5	6	5	5	5	4	5	4	6	5	5	5
HEATING VELOCITY (ft/min)	257	275	184	316	352	228	229	352	275	257	294	352	419	286	411	411	191	149	441	711	510	734	734	734
COOLING VELOCITY (ft/min)	521	528	207	648	595	492	172	595	528	521	463	698	580	459	661	661	411	115	250	551	41	59	59	59
OUTLET GRILL SIZE	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10
TRUNK	A	B	B	D	C	D	D	C	D	B	D	C	D	A	B	B	A	C	C	A	A	B	D	C

RUN #	25
ROOM NAME	BAS
RM LOSS MBH.	3.66
CFM PER RUN HEAT	100
RM GAIN MBH.	0.23
CFM PER RUN COOLING	8
ADJUSTED PRESSURE	0.16
ACTUAL DUCT LGH.	28
EQUIVALENT LENGTH	130
TOTAL EFFECTIVE LENGTH	158
ADJUSTED PRESSURE	0.1
ROUND DUCT SIZE	6
HEATING VELOCITY (ft/min)	510
COOLING VELOCITY (ft/min)	41
OUTLET GRILL SIZE	4X10
TRUNK	B

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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	279	0.08	8.7	10	x	8	502	TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.06	0	0	x	8	0			
TRUNK B	666	0.08	12	16	x	8	749	TRUNK H	0	0.00	0	0	x	8	0	TRUNK P	0	0.06	0	0	x	8	0			
TRUNK C	317	0.08	9.1	10	x	8	571	TRUNK I	0	0.00	0	0	x	8	0	TRUNK Q	0	0.06	0	0	x	8	0			
TRUNK D	651	0.08	11.9	16	x	8	732	TRUNK J	0	0.00	0	0	x	8	0	TRUNK R	0	0.06	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	0.06	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	0.06	0	0	x	8	0			
																TRUNK U	0	0.06	0	0	x	8	0			
																TRUNK V	0	0.06	0	0	x	8	0			
																TRUNK W	0	0.06	0	0	x	8	0			
																TRUNK X	1141	0.06	15.8	30	x	8	685			
																TRUNK Y	645	0.06	12.8	20	x	8	581			
																TRUNK Z	310	0.06	9.7	12	x	8	465			
																DROP	1316	0.06	16.7	24	x	12	658			

RETURN AIR #	1	2	3	4	5	6											BR
AIR VOLUME	155	185	175	90	155	335	0	0	0	0	0	0	0	0	221		
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		
ACTUAL DUCT LGH.	63	52	52	52	46	23	1	1	1	1	1	1	1	1	14		
EQUIVALENT LENGTH	195	145	170	175	200	185	0	0	0	0	0	0	0	0	145		
TOTAL EFFECTIVE LH	258	197	222	227	246	208	1	1	1	1	1	1	1	1	159		
ADJUSTED PRESSURE	0.06	0.08	0.07	0.07	0.06	0.07	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.09		
ROUND DUCT SIZE	7.5	7.5	7.5	5.9	7.5	9.6	0	0	0	0	0	0	0	0	7.7		
INLET GRILL SIZE	8	8	8	8	8	8	0	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	0	0	0	0	0	0	0	0	24		

TYPE: JUNIPER 7
SITE NAME: LECCO RIDGE

LO # 74045
LOT 119

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES		9.32.3.1(1)
e)	☒ Direct vent (sealed combustion) only	
b)	☐ Positive venting induced draft (except fireplaces)	
c)	☐ Natural draft, B-vent or induced draft gas fireplace	
d)	☐ Solid Fuel (including fireplaces)	
e)	☐ No Combustion Appliances	

HEATING SYSTEM	
☒ Forced Air	☐ Non Forced Air
☐ Electric Space Heat	

HOUSE TYPE		9.32.1(2)
☒ I	Type a) or b) appliance only, no solid fuel	
☐ II	Type I except with solid fuel (including fireplaces)	
☐ III	Any Type c) appliance	
☐ IV	Type I, or II with electric space heat	
☐	Other: Type I, II or IV no forced air	

SYSTEM DESIGN OPTIONS		O.N.H.W.P.
☐ 1	Exhaust only/Forced Air System	
☐ 2	HRV with Ducting/Forced Air System	
☒ 3	HRV Simplified/connected to forced air system	
☐ 4	HRV with Ducting/non forced air system	
☐	Part 6 Design	

TOTAL VENTILATION CAPACITY		9.32.3.3(1)
Basement + Master Bedroom	2 @ 21.2 cfm	42.4 cfm
Other Bedrooms	3 @ 10.6 cfm	31.8 cfm
Kitchen & Bathrooms	5 @ 10.6 cfm	53 cfm
Other Rooms	6 @ 10.6 cfm	63.6 cfm
Table 9.32.3.A.	TOTAL	190.8 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	79.5 cfm

SUPPLEMENTAL VENTILATION CAPACITY		9.32.3.5.
Total Ventilation Capacity	190.8 cfm	
Less Principal Ventil. Capacity	86 cfm	
Required Supplemental Capacity	104.8 cfm	

PRINCIPAL EXHAUST FAN CAPACITY	
Model: VANEE 40H+	Location: BSMT
86.0 cfm	3.0 sones
☒	HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION			
CFM	ΔT °F	FACTOR	% LOSS
86.0 CFM	X 72 F	X 1.08	X 0.35

SUPPLEMENTAL FANS		NUTONE	
Location	Model	cfm	HVI Sones
ENS	QTXEN050C	50	☒ 0.3
BATH	QTXEN050C	50	☒ 0.3
ENS-2	QTXEN050C	50	☒ 0.3
W/R	QTXEN050C	50	☒ 0.3

HEAT RECOVERY VENTILATOR		9.32.3.11.
Model: VANEE 40H+		
86 cfm high	37 cfm low	
65 % Sensible Efficiency	☒ HVI Approved	
@ 32 deg F (0 deg C)		

LOCATION OF INSTALLATION	
Lot:	Co
Township	Pi
Address	
Roll #	

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BUILDER:		GR
Name:		
Address:		
City:		
Telephone #:		

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PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-7100
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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:	
HRAI #	001820
Date:	May-17

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: JUNIPER 7	LOT 119	BUILDER: GREENPARK HOMES
SFQT: 3129	LO# 7404S	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):	42361.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	S
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.75	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH: 51.0 ft	WIDTH: 39.0 ft	EXPOSED PERIMETER:	180.0 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

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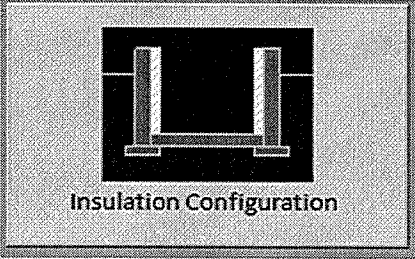
INDIVIDUAL BCIN: 19669

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):	15.5	 Insulation Configuration
Floor Width (m):	11.9	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.8	
Window Area (m ²):	1.4	
Door Area (m ²):	3.7	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):		1765

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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):	1239.7			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa. 3.57	1652.6 cm ² ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply 40.6	Total Exhaust 40.6		
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		

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RESIDENTIAL HVAC (New Construction)

- 1) All HVAC work shall comply with Part 6 and 9.32/9.33.

2) Supply or return air ducts not protected by an insulated exterior wall shall be 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)
- 4) All supply/return air ducts located in 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

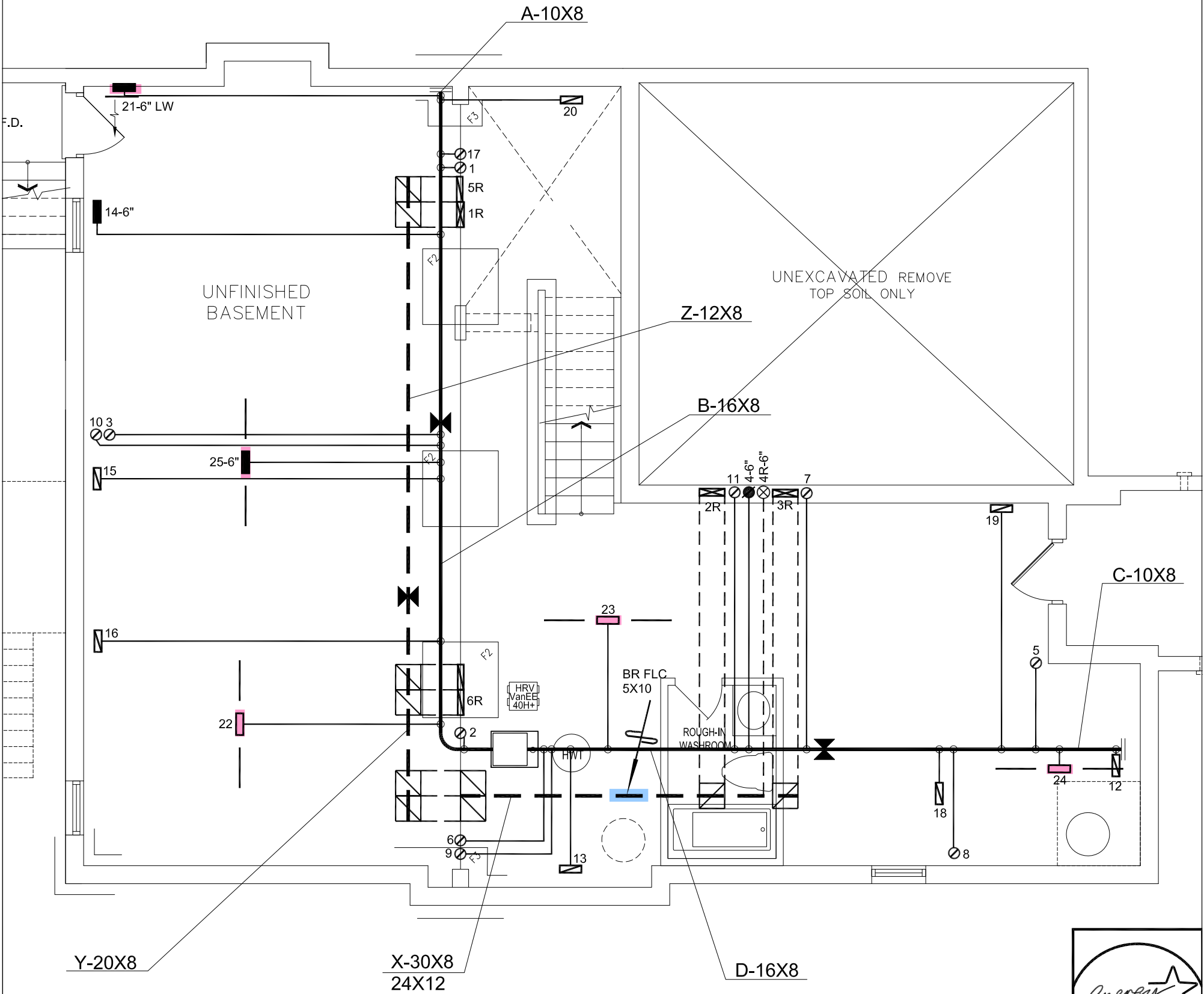
RECEIVED
TOWN OF MILTON
MAY 30, 2017
17-7100
BUILDING DIVISION



TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-7100

BUILDING: REVIEWED
SCOTT SHERRIFFS
PLANS EXAMINER
JUN 15, 2017
DATE

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BASEMENT FLOOR PLAN '2'
8'6" POUR FOUNDATION WALL
SIDE UPGRADE

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.



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

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Client		 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.	HEAT LOSS 50570 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS			Sheet Title	
Project Name LECCO RIDGE MILTON, ONTARIO			MAKE AMANA		3RD FLOOR			BASEMENT HEATING LAYOUT	
			MODEL AMVC960804CNA		2ND FLOOR				
			INPUT 80 MBTU/H		1ST FLOOR				
			OUTPUT 76.8 MBTU/H		BASEMENT				
LOT 119 JUNIPER 7 3129 sqft			COOLING 3.5 TONS		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			Date MAY/2017	
			FAN SPEED 1316 cfm @ 0.5" w.c.					Scale 3/16" = 1'-0"	
								BCIN# 19669	
								LO# 74045	

MILTON

TOWN OF MILTON

PLANNING AND DEVELOPMENT

BUILDING PERMIT: 17-7100

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

JUN 15, 2017

DATE

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RECEIVED

TOWN OF MILTON

MAY 30, 2017

17-7100

BUILDING DIVISION

FIRST FLOOR PLAN '2'
10 FOOT CEILING
SIDE UPGRADE

I MICHAEL O'ROURKE HAVE REVIEW 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.

Energy

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	Nd.	Description Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS	

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Client GREENPARK HOMES		HVACDESIGNS LTD. 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.hvacdesigns.ca Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.	Sheet Title FIRST FLOOR HEATING LAYOUT	
Project Name LECCO RIDGE MILTON, ONTARIO			Date MAY/2017	
LOT 119 JUNIPER 7			Scale 3/16" = 1'-0"	
3129 sqft			BCIN# 19669	
			LO# 74045	



TOWN OF MILTON

PLANNING AND DEVELOPMENT

BUILDING PERMIT: 17-7100

BUILDING: REVIEWED

SCOTT SHERRIFFS

PLANS EXAMINER

JUN 15, 2017

DATE

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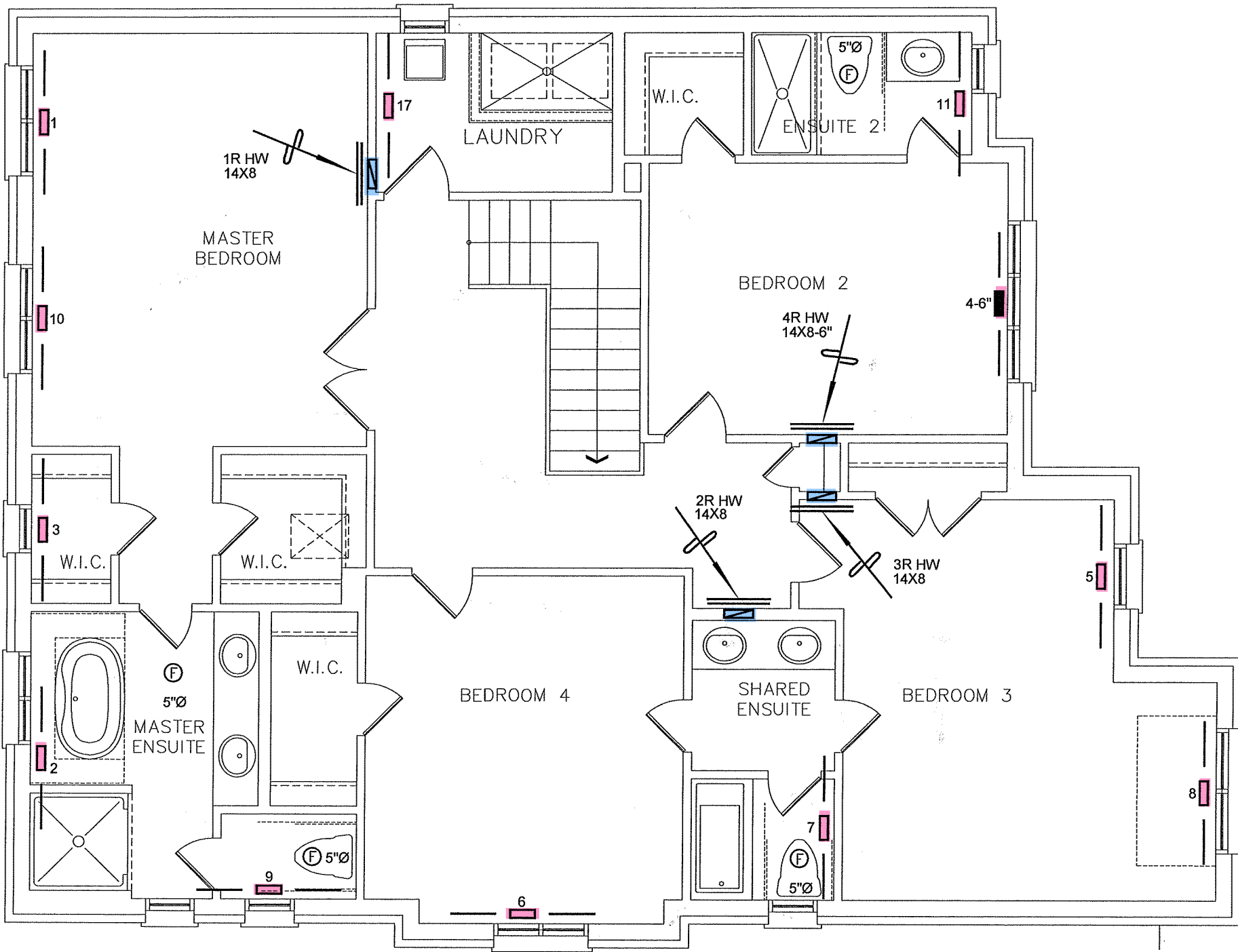
RECEIVED

TOWN OF MILTON

MAY 30, 2017

17-7100

BUILDING DIVISION



SECOND FLOOR PLAN '2'
SIDE UPGRADE

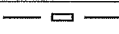
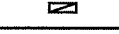
I MICHAEL O'ROURKE HAVE REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE

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



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.		
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	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS		

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Client

GREENPARK HOMES

Project Name

LECCO RIDGE
MILTON, ONTARIO

LOT 119
JUNIPER 7

3129 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

SECOND FLOOR
HEATING
LAYOUT

Date

MAY/2017

Scale

3/16" = 1'-0"

BCIN# 19669

LO#

74045