



Municipality of Mississippi Mills

3131 Old Perth Road, PO Box 400, Almonte ON, K0A 1A0
613-256-2064 ext. 260


Application for a Permit to Construct, Change of Use, Demolish

This form is authorized under subsection 8(1.1) of the *Building Code Act, 1992*

For use by Principal Authority					
Application/File Number: A22-1231			Permit number (if different): 22-280		
Date received: August 15, 2022			Roll/Tax Number:		
Application submitted to: THE CORPORATION OF THE MUNICIPALITY OF MISSISSIPPI MILLS					
A. Your Project location and information:					
Building project civic address number & street name 336 Antler Court				Lot/con. 59	Unit/Apt.
Municipality Mississippi Mills		Postal Code		Plan number/other description 27M-47	
Will this project require an additional driveway/ <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Is this a vacant lot/ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Area of work (ft ²) - Existing N/A			Area of work (ft ²) - New		
Height of Building (ft.) 21'8"		Length (ft.) 65'1"		Width (ft.) 41'10"	
Project value Est \$ 374,700		<i>Project value estimate: means the value of the proposed work including value of land, work, labour, equipment, materials, and design services where applicable. This information is required to be sent to Statistics Canada. This information does not impact where there is a set fee.</i>			
B. Purpose of application					
<input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Renovate/Alter/Repair <input type="checkbox"/> Demolition <input type="checkbox"/> Change of Use <input type="checkbox"/> Solar Panel (Roof) <input type="checkbox"/> Other _____					
Current use of Building		Proposed use of Building Residential		<i>Use of building: means , residential, office, mercantile, assembly, industrial, institutional, etc.</i>	
Description of proposed work One storey single family home					
Two car attached garage					
C. Applicant is: <input type="checkbox"/> Owner or <input checked="" type="checkbox"/> An authorized agent of owner (Authorized Agent Form Required)					
Last name Buck		First name Catherine		Corporation or partnership (If applicable) DCR Phoenix Homes	
Street address 18 Bentley Avenue					Unit/Apt. # A
Municipality Nepean		Postal code K2E 6T8	Province ON	E-mail (All reports are sent to owner's email) cbuck@phoenixhomes.ca	
Telephone number (613) 723-9227 ext. 191		Cell ()		Other ()	
D. Owner (if different from applicant)					
Last name		First name		Corporation or partnership (If applicable) DCR Phoenix Homes	
Street address 18 Bentley Avenue					Unit/Apt. # A
Municipality Nepean		Postal code K2E 6T8	Province ON	E-mail (All reports are sent to owner's email) cbuck@phoenixhomes.ca	
Telephone number (613) 723-9227		Cell ()		Other ()	



2022-09-16

E. Builder (optional)				
Last name		First name		Corporation or partnership (if applicable)
Street address				Unit/Apt. #
Municipality	Postal code	Province	E-mail (All reports are sent to owner's email)	
Telephone number ()	Cell ()	Other ()		
F. Tarion Warranty Corporation (Ontario New Home Warranty Program) (Applicable to all new homes - reported to				
i. Is proposed construction for a new home as defined in the <i>Ontario New Home Warranties Plan Act</i> ? If no, go to section G.			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Is registration required under the <i>Ontario New Home Warranties Plan Act</i> ?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
iii. If yes to (ii) provide registration number(s): <u>35002</u>				
G. Required Schedules				
i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities. ii) Attach Schedule 2 where application is to construct on-site, install or repair a				
H. Completeness and compliance with applicable law – Yes is default answer.				
i) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted).			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
All payments will be made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when called for by the Chief Building Official. The minimum fee of \$125.00 will be submitted with this application.			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> .			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law.			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
iv) This proposed building, construction or demolition will not contravene any applicable law.			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
I. Declaration of applicant				
I, <u>Catherine Buck</u> declare that:				
(Owner or Agent Print Name)				
1. The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.				
2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.				
<u>Aug 15, 2022</u>				
Date		Signature of applicant		


Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor, Toronto, M5G 2E5 (416) 585-6666.



2022-09-16

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Location Information			
Building civic address number, street name: 336 Antler Court			Unit/Apt. Number
Municipality: Municipality of Mississippi Mills	Postal code	Plan number/ other description (if applicable) 27M-47	
B. Individual who reviews and takes responsibility for design activities			
Name: Catherine Buck		Firm: DCR Phoenix Homes	
Street address 18 Bentley Avenue			Unit/Apt. Number A
Municipality Nepean	Postal code K2E 6T8	Province ON	E-mail cbuck@phoenixhomes.ca
Telephone number (613) 723-9227 ext. 191	Fax number ()	Cell number ()	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> HVAC – House	<input type="checkbox"/> Building Structural	
<input type="checkbox"/> Small Buildings	<input type="checkbox"/> Building Services	<input type="checkbox"/> Plumbing – House	
<input type="checkbox"/> Large Buildings	<input type="checkbox"/> Detection, Lighting and Power	<input type="checkbox"/> Plumbing – All Buildings	
<input type="checkbox"/> Complex Buildings	<input type="checkbox"/> Fire Protection	<input type="checkbox"/> On-site Sewage Systems	
Description of designer's work General design review			
D. Declaration of Designer			
I, <u>Catherine Buck</u> declare that (choose one as appropriate): (print name)			
<input type="checkbox"/> I have reviewed and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: _____ Firm BCIN: _____			
<input checked="" type="checkbox"/> I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code. Individual BCIN: <u>46674</u>			
Basis for exemption from registration: <u>Designer for Tarion Builder</u>			
<input type="checkbox"/> The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: _____ or <input type="checkbox"/> The Applicant is the OWNER.			
I certify that: 1. The information contained in this schedule is true to the best of my knowledge. 2. I have submitted this application with the knowledge and consent of the firm. 3. The plans have the project location, date and is signed by the designer or owner as being their design.			
<u>Aug 15, 2022</u> Date		 Signature of Designer or Owner	

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not be completed by a holder of a license to practice, a limited license to practice, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario



2022-09-16



Kollaard Associates

Engineers

210 Prescott Street

P.O. Box 189

Kemptville, Ontario K0G 1J0

Civil • Geotechnical •
Structural • Environmental •
Hydrogeology •

(613) 860-0923

FAX: (613) 258-0475

August 15, 2022

Kollaard File # 220020 – LOT59

Phoenix Homes
18A Bentley Avenue
Ottawa, Ontario
K2E 6T8

Attn: Catherine Buck
Tel: 613-723-9227 x 191
Email: CBuck@phoenixhomes.ca

**Re: Proposed Single Family Dwelling, 336 Antler Court, Lot # 58 White Tail Ridge, Almonte,
Kollaard Associates File # 220020**

With regard to structural issues only, Kollaard Associates has reviewed the following drawings:

- Phoenix Homes, Lot # 59 White Tail Ridge, Pages # 1 to 9, Dated 15/08/2022
- Grandor Lumber Inc., Roof Truss Layout, PSPRB, WTR3-59, Dated 07/28/2022
- Grandor Lumber Inc., 1st Floor Joist Layout, LOT WTR3-59, Springfield B SR, Dated 08/08/2022

Kollaard Associates offers the following comments:

Ground Floor Plan – Pages # 3:

1. It is the opinion of Kollaard Associates that the proposed beams, lintels and supporting posts shown on Phoenix Homes Pages # 3 are adequate.
2. The proposed tall wall construction (including posts supporting lintels within the tall wall) noted on Phoenix Homes Pages # 1 is adequate.
3. Posts supporting girders may consist of built up 2x6 posts as indicated on Phoenix Homes Pages # 3 and are laterally supported by plywood or OSB sheathing (i.e. posts form part of sheathed exterior walls unless noted).
4. Truss design is by others.

Basement Plan – Pages # 2:

5. It is the opinion of Kollaard Associates that the proposed steel beams, steel posts and built wood posts shown on Phoenix Homes Pages # 2 are adequate.

6. The front porch slab reinforcement described on Phoenix Homes Pages # 1 is adequate.

*7. The foundation walls at the bottom of the window openings that exceed 47¼" in width (or the sum of the widths of the window openings exceed 25% of the length of the wall) are considered to be laterally unsupported as per 2012 OBC 9.15.4.3. The reinforcement around the window openings noted on Phoenix Homes Sheets # 2 is adequate to withstand the lateral earth pressures.

8. The remaining proposed foundation walls conform to 2012 OBC Table 9.15.4.2.A. ensuring that the grade difference between the basement slab and the exterior grade (including the garage slab) does not exceed 7'-6½" for the full height 8'-10" foundation walls.

9. The strip footings and proposed interior pad footings shown on Phoenix Homes Page # 2 and noted on Phoenix Homes Page # 1 are adequate.

10. Floor joist design, flush LVL beams within the floor structure and LVL lintels are by the manufacturer. The posts supporting the flush LVL lintels shown on Phoenix Homes Pages # 2 are adequate.

General Notes:

11. All gravity loads to be carried to foundation through solid blocking.

12. Truss design is by others.

13. Floor joist design, flush LVL beams within the floor structure and LVL lintels are by the manufacturer.

14. Note that the truss manufacturer/floor joist supplier has sized the flush LVL beams and girder trusses shown on the building drawings. The comments provided by Kollaard Associates in this report are based in part on the design indicated in the truss and floor layouts. If a different truss and/or floor layout is used in construction, comments made in this report may no longer be valid. Provide Kollaard Associates with the full truss package prior to construction.

15. The self supporting stairs are to be designed by the stair manufacturer.

16. All dimension lumber, except non-load bearing 8 ft 2x6 studs to be No.2 grade SPF or better.

17. Non-load bearing 8 ft 2x6 studs to be No.3 or Stud grade SPF or better.

18. All guards to be as per OBC SB-7, unless otherwise mentioned or designed by others.

19. All brick lintels to be as per OBC Table 9.20.5.2.B.

20. Unless otherwise noted, LVL to be 1.8E 3000Fb LVL (Canadian Limit States bending strength of at least 39.5 MPa) with 1¾" nominal width or better.

21. Pemco Steel adjustable posts are designed and approved by the manufacturer. The adjustable steel posts are designed for a max. allowable load of 106.8 kN at a max. height of 9'-3".

22. All 3" x 3" x 3/16" HSS posts c/w 6" x 6" x 3/8" top and bottom bearing plates.

REINFORCING
REQUIRED IN
FOUNDATION
WALLS,
FOOTINGS OR
PORCH SLAB
SHALL BE
REVIEWED
PRIOR TO
POURING
CONCRETE

23. The assumed soil bearing resistance of 100 kPa is to be verified prior to construction.
24. Comments provided in this report are made in consideration of Part 9 and Part 4 (where applicable) of the 2012 OBC as amended.
25. This report constitutes a review of the structural information indicated on the building plans cited in this report for the client indicated above.

We trust this letter provides sufficient information for your present purposes. If you have any questions concerning this letter please do not hesitate to contact our office.

Sincerely,
Kollaard Associates Inc.



Christopher Cogliati, P.Eng.



Mississippi
Mills

Municipality of Mississippi Mills
Planning & Building Department

14 Bridge Street, PO Box 400
Almonte, ON K0A 1A0
Phone: 613-256-2064 | Fax: 613-256-4887
www.mississippimills.ca

August 26, 2022

Catherine Buck
DCR Phoenix Homes

Sent via email to: [cbuck@phoenixhomes.ca]

**Re: Zoning Approval Letter
336 Antler Court
A22-1231**

Dear Ms. Buck,

The site plan for your building permit application for the above noted address has been reviewed for compliance with Zoning By-law #11-83.

A stamped copy of your approved site plan has been attached for your reference. Please note that the approved drawing signifies that your application has been reviewed for **zoning compliance only**; it is not a building permit.

Your building permit application can now move forward in the building permit review process. A Building Inspector or third-party reviewer, RSM Building Consultants, will review your application and drawings shortly. Should you have any questions or concerns regarding your building permit application process, please contact Jennifer Russell, Building and Planning Clerk at building@mississippimills.ca.

If you have any questions or concerns regarding this letter or your approved site plan, please feel free to contact me at 613-256-2064 Ext. 502 or at jren@mississippimills.ca.

Sincerely,

Jeffrey Ren, Planner
Municipality of Mississippi Mills

Encl: Planning Approved Site Plan



2022-09-16

MUNICIPALITY OF MISSISSIPPI MILLS

Plumbing Information Sheet

Site Address: 336 Antler Court

Application is to: ☒ **Construct** ☐ **Alter** ☐ **Repair**

Owner's Name: DCR Phoenix Homes

Owner's Phone: 613-723-9227

Owners Email: cbuck@phoenixhomes.ca

Plumber's Name: Ben Cinnamon

Company Name (if applicable): ABC Plumbing

Plumber's Phone: 613-489-0120

Plumber's License #: 13269183

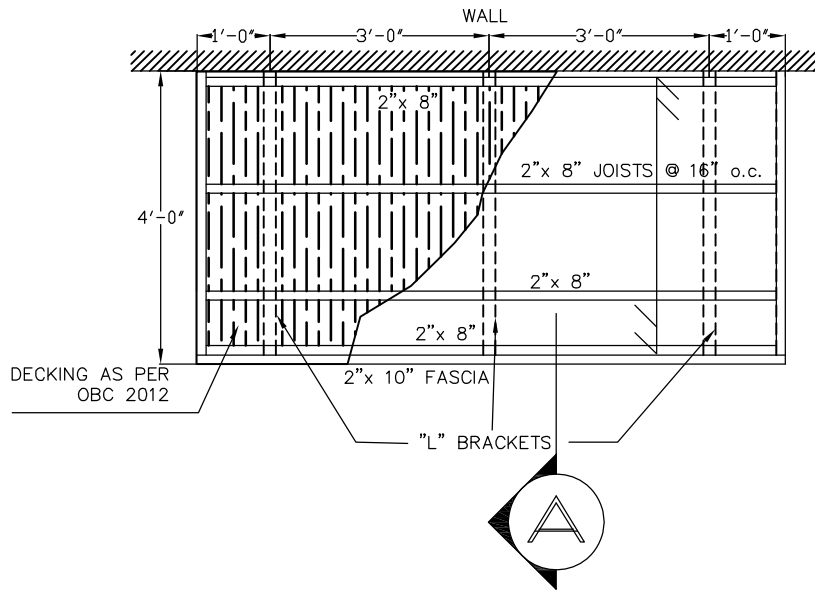
Total Number of Fixtures 15

Please fill in total amount of fixtures installed on the corresponding floor level(s).

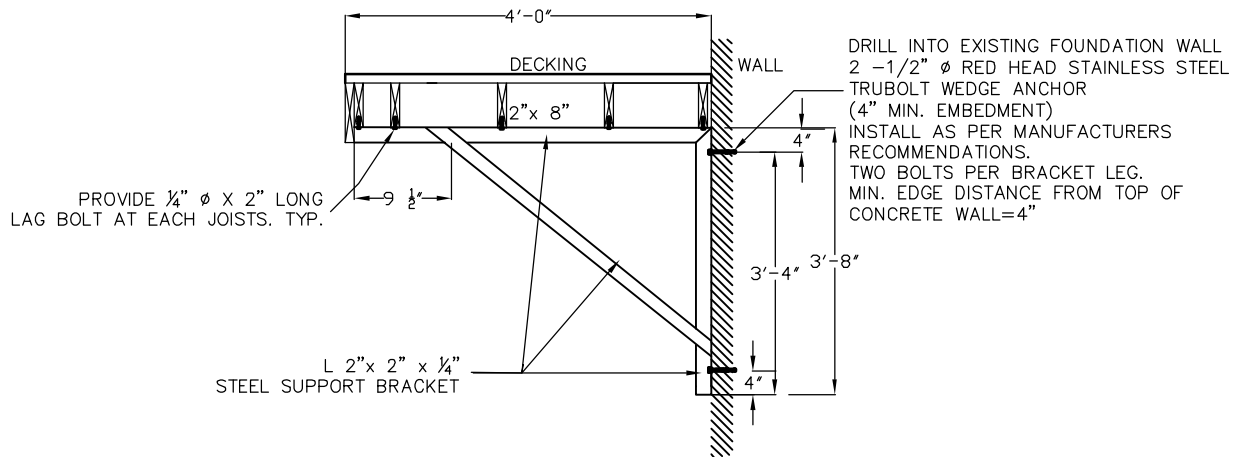
Fixture Type	Basement	1 st Floor	2 nd Floor	3 rd Floor
Toilet / Bidet	1	2		
Bathroom Sink	1	3		
Shower		1		
Bathtub	1	1		
Kitchen Sink		1		
Washing Machine		1		
Laundry Sink		1		
Floor Drain				
Hot Water Tank				
Water Softener				
Urinal				
Grease Trap				
Oil Interceptor				
Pumps	1			
Backwater Valves	1			
Special Fixture				



2022-09-16



PLAN



SECTION 'A'

NOTES:

STEEL
 -ALL STRUCTURAL STEEL WORK INCLUDING DESIGN OF ALL COMPONENTS SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA-S16-09.
 -HOLLOW STRUCTURAL SECTIONS TO CAN/CSA G40.20 GRADE 350, CLASS C OF H.
 -STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.21 GRADE 300W
 ALL WORK SHALL CONFORM OBC 2012
 CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
 FOR ADDITIONAL INFORMATION, SEE ENGINEERING DWGS.

ALL HARDWARE TO BE HOT-DIP GALVANIZED
 CONCRETE MIN. STRENGTH: 25 MPA



No.	Revision	Date	By

Estructura Inc.

TEL: (819) 918-4382
 EMAIL: estructurainc@yahoo.com



Client
 CUT RITE CONSTRUCTION

Project Name

Sheet Title
 DECK CONNECTION 4'

Drawn By
 DS

Project No.

Date
 DECEMBER 2019

File Name

Check

Scale

Drawn

Sh



2022-09-16

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

For use by Principal Authority	
Application No.	Model/Certification Number

A. Project Information

Building number, street name 336 Antler Court		Unit number	Lot/Con 59
Municipality Mississippi Mills	Postal code	Reg. Plan number / other description 27M-47	

B. Prescriptive Compliance [indicate the building code compliance package being employed in this house design]

SB-12 Prescriptive (input design package): Package: A1 Table: 3.1.1.2.A(IP)

C. Project Design Conditions


Climatic Zone (SB-1): <input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) <input type="checkbox"/> Zone 2 (≥ 5000 degree days)	Heating Equipment Efficiency <input checked="" type="checkbox"/> ≥ 92% AFUE <input type="checkbox"/> ≥ 84% < 92% AFUE	Space Heating Fuel Source <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area Area of walls = _____ m ² or 2750 ft ² W, S & G % = <u>15.3</u> Area of W, S & G = _____ m ² or 419 ft ² Utilize window averaging: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other Building Characteristics <input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement <input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit <input type="checkbox"/> Air Sourced Heat Pump (ASHP) <input type="checkbox"/> Ground Sourced Heat Pump (GSHP)

D. Building Specifications [provide values and ratings of the energy efficiency components proposed]

Energy Efficiency Substitutions				
<input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6)) <input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7)) <input type="checkbox"/> Airtightness substitution(s) Airtightness test required (Refer to Design Guide Attached) <input type="checkbox"/> Table 3.1.1.4.B Required: _____ Permitted Substitution: _____ <input type="checkbox"/> Table 3.1.1.4.C Required: _____ Permitted Substitution: _____ Required: _____ Permitted Substitution: _____				
Building Component	Minimum RSI / R values or Maximum U-Value ⁽¹⁾		Building Component	Efficiency Ratings
Thermal Insulation	Nominal	Effective	Windows & Doors Provide U-Value ⁽¹⁾ or ER rating	
Ceiling with Attic Space	R60		Windows/Sliding Glass Doors	25
Ceiling without Attic Space	R31		Skylights/Glazed Roofs	0.49
Exposed Floor	R31		Mechanicals	
Walls Above Grade	R22		Heating Equip.(AFUE)	96%
Basement Walls		R21.12	HRV Efficiency (SRE% at 0°C)	75%
Slab (all >600mm below grade)	--		DHW Heater (EF)	0.8
Slab (edge only ≤600mm below grade)	R10		DWHR (CSA B55.1 (min. 42% efficiency))	# Showers <u>2</u>
Slab (all ≤600mm below grade, or heated)	R10		Combined Heating System	NO

(1) U value to be provided in either W/(m²·K) or Btu/(h·ft²·F) but not both. PROVIDE A MIN. 42% EFFICIENT DRAIN WATER HEAT RECOVERY UNIT CONNECTED TO ALL SHOWERS (OR AT LEAST 2 SHOWERS WHEN MORE THAN 1 UNIT IS INSTALLED)

E. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets the building code]

Qualified Designer Declaration of designer to have reviewed and take responsibility for the design work.		
Name Catherine Buck	BCIN 46674	Signature 

Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 2016.



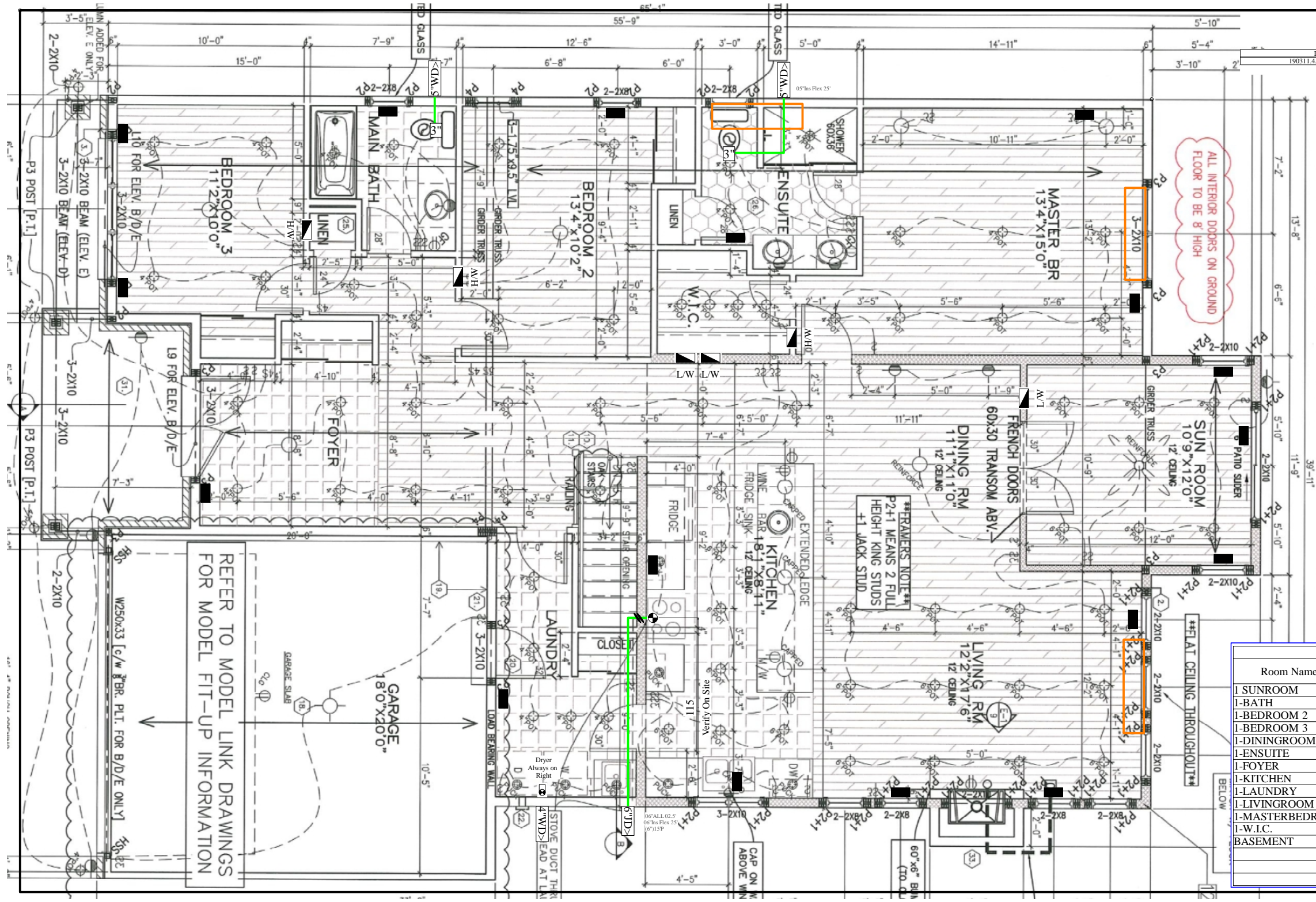
2022-09-16



Heat Loss			
Room Name	Htg cfm	Clg cfm	Htg btu
1-SUNROOM	133.	182.	0.
1-BATH	30.	24.	0.
1-BEDROOM 2	45.	39.	0.
1-BEDROOM 3	90.	76.	0.
1-DININGROOM	13.	12.	0.
1-ENSUITE	37.	37.	
1-FOYER	80.		
1-KITCHEN	41.		
1-LAUNDRY	60.		
1-LIVINGROOM	183.		
1-MASTERBEDROOM	88.		
1-W.I.C.	2.		
BASEMENT	368.		
	1170	1170	



Date	Description
190311.4A	Springfield SunRoom Sld (1-47) DV



Heat Loss			
Room Name	Htg cfm	Clg cfm	Htg btu
1-SUNROOM	133.	182.	0.
1-BATH	30.	24.	0.
1-BEDROOM 2	45.	39.	0.
1-BEDROOM 3	90.	76.	0.
1-DININGROOM	13.	12.	0.
1-ENSUITE	37.	37.	0.
1-FOYER	80.		
1-KITCHEN	41.		
1-LAUNDRY	60.		
1-LIVINGROOM	183.		
1-MASTERBEDROOM	88.		
1-W.I.C.	2.		
BASEMENT	368.		
	1170	11.	

REFER TO MODEL LINK DRAWINGS
FOR MODEL FIT-UP INFORMATION

Furn GMEC960603BNA

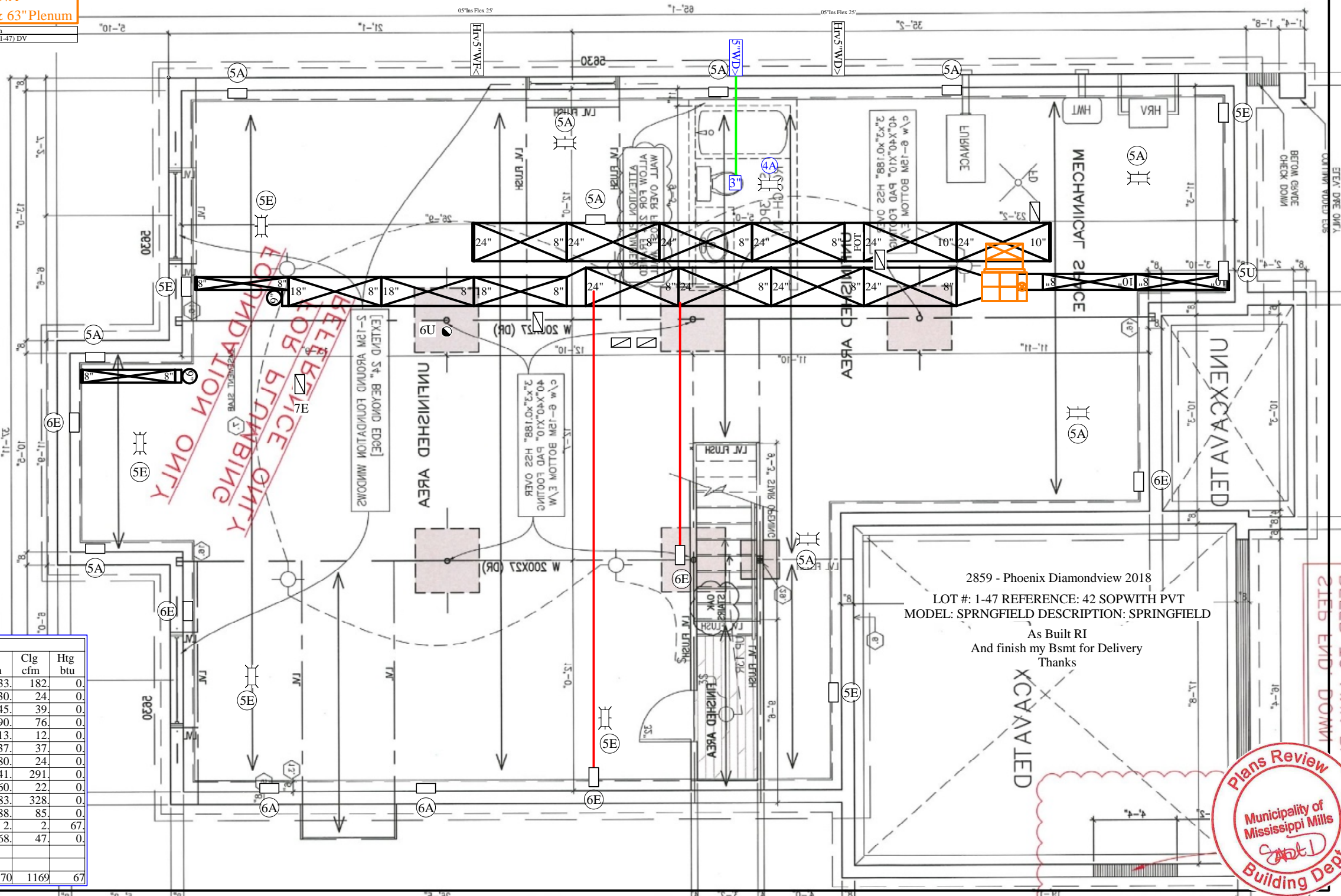
x5' 10"x23¼" CAE & 63" Plenum

Date

Description

190311.4A Springfield SunRoom Std (1-47) DV

Heat Loss			
Room Name	Htg cfm	Clg cfm	Htg btu
1 SUNROOM	133.	182.	0.
1-BATH	30.	24.	0.
1-BEDROOM 2	45.	39.	0.
1-BEDROOM 3	90.	76.	0.
1-DININGROOM	13.	12.	0.
1-ENSUITE	37.	37.	0.
1-FOYER	80.	24.	0.
1-KITCHEN	41.	291.	0.
1-LAUNDRY	60.	22.	0.
1-LIVINGROOM	183.	328.	0.
1-MASTERBEDROOM	88.	85.	0.
1-W.I.C.	2.	2.	67.
BASEMENT	368.	47.	0.
	1170	1169	67



2859 - Phoenix Diamondview 2018
LOT #: 1-47 REFERENCE: 42 SOPWITH PVT
MODEL: SPRNGFIELD DESCRIPTION: SPRINGFIELD
As Built RI
And finish my Bsmt for Delivery
Thanks



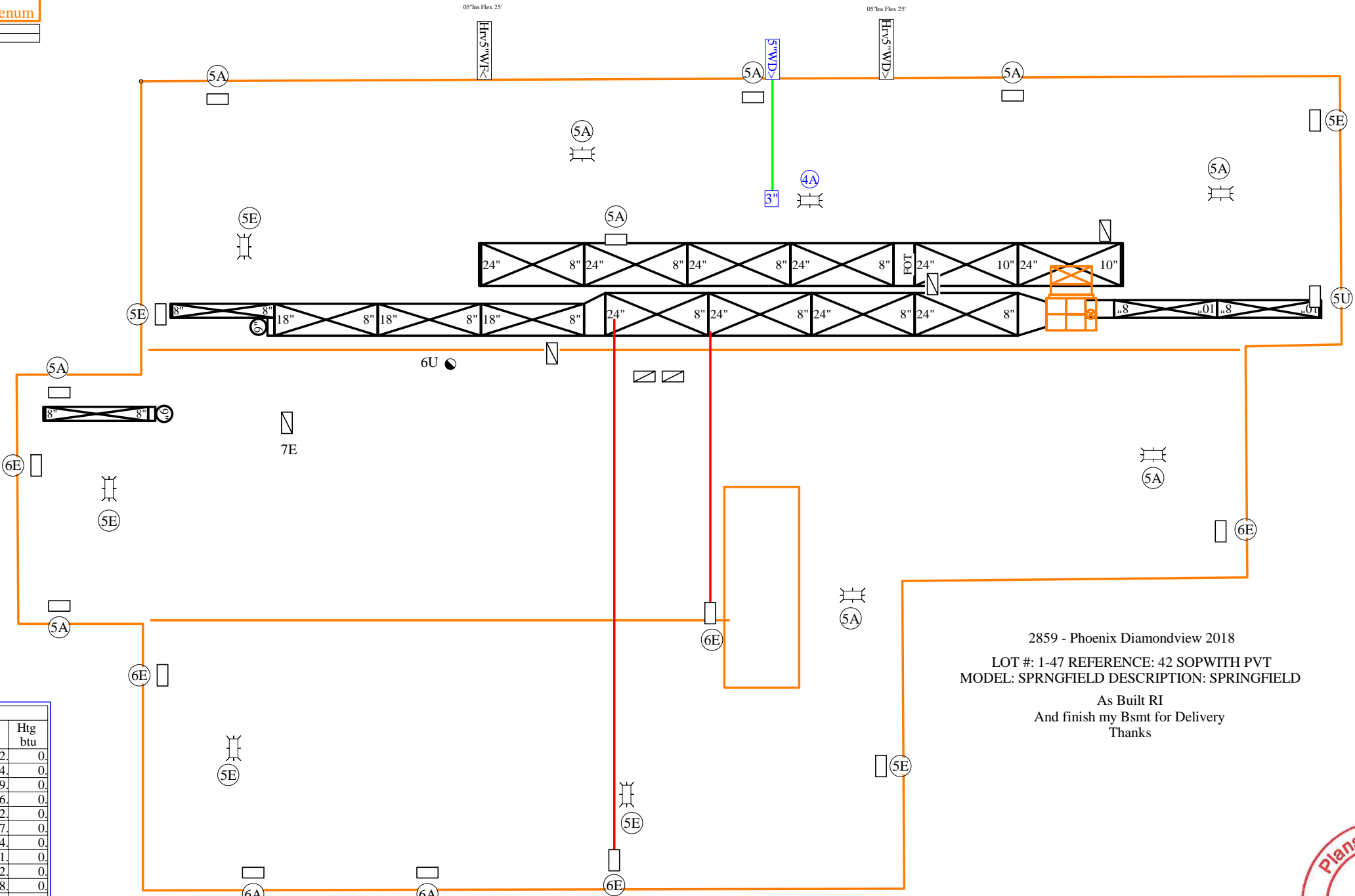
Furn GMEC960603BNA
x5' 10"x23¼" CAE & 63" Plenum

Date

Description

190311.4A Springfield SunRoom Std (1-47) DV

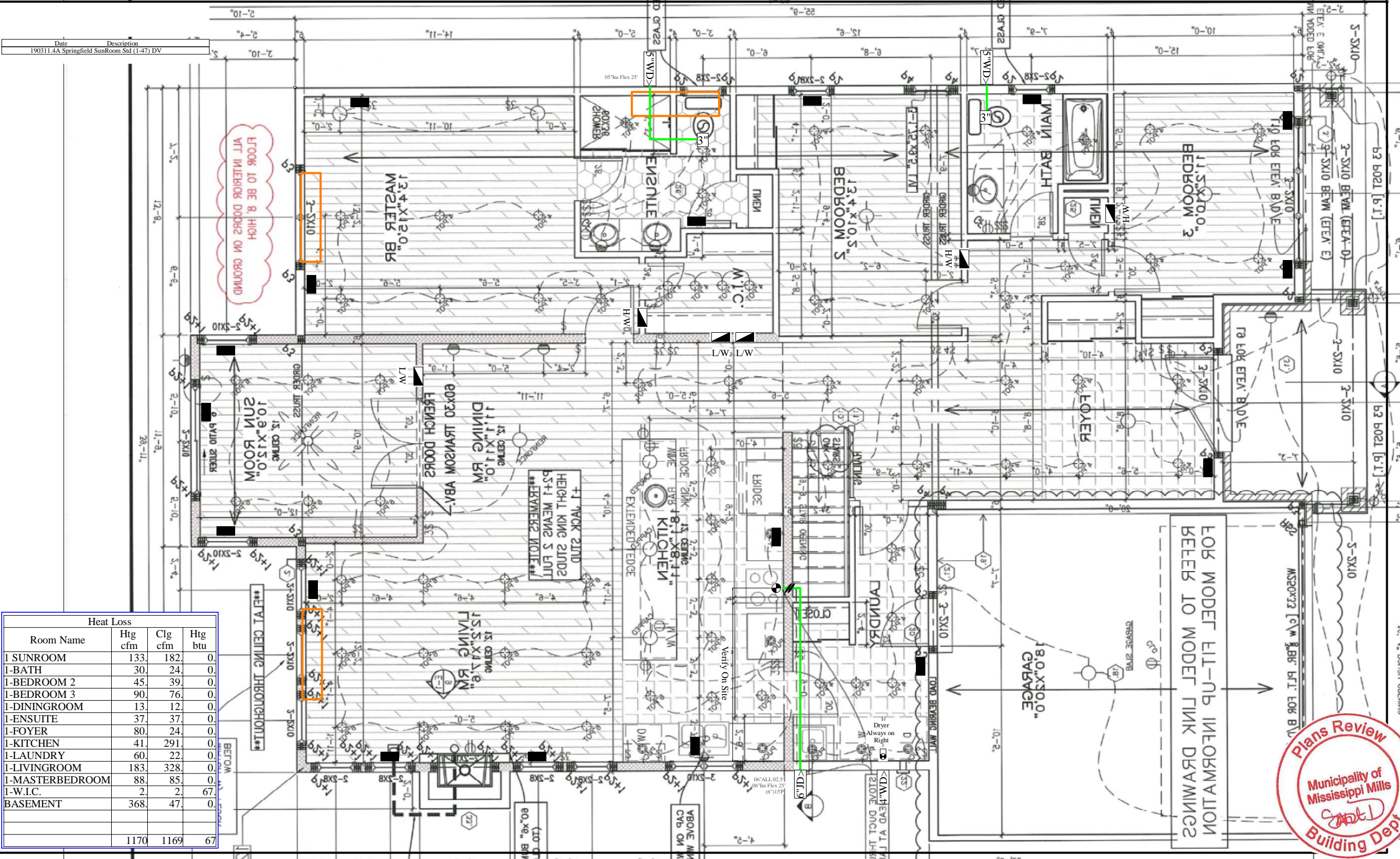
Heat Loss			
Room Name	Htg cfm	Clg cfm	Htg btu
1 SUNROOM	133.	182.	0.
1-BATH	30.	24.	0.
1-BEDROOM 2	45.	39.	0.
1-BEDROOM 3	90.	76.	0.
1-DININGROOM	13.	12.	0.
1-ENSUITE	37.	37.	0.
1-FOYER	80.	24.	0.
1-KITCHEN	41.	291.	0.
1-LAUNDRY	60.	22.	0.
1-LIVINGROOM	183.	328.	0.
1-MASTERBEDROOM	88.	85.	0.
1-W.I.C.	2.	2.	67.
BASEMENT	368.	47.	0.
	1170	1169	67



2859 - Phoenix Diamondview 2018
LOT #: 1-47 REFERENCE: 42 SOPWITH PVT
MODEL: SPRNGFIELD DESCRIPTION: SPRINGFIELD
As Built RI
And finish my Bsmt for Delivery
Thanks



Heat Loss			
Room Name	Htg cfm	Clg cfm	Htg btu
1 SUNROOM	133.	182.	0.
1-BATH	30.	24.	0.
1-BEDROOM 2	45.	39.	0.
1-BEDROOM 3	90.	76.	0.
1-DININGROOM	13.	12.	0.
1-ENSUITE	37.	37.	0.
1-FOYER	80.	24.	0.
1-KITCHEN	41.	291.	0.
1-LAUNDRY	60.	22.	0.
1-LIVINGROOM	183.	328.	0.
1-MASTERBEDROOM	88.	85.	0.
1-W.I.C.	2.	2.	67.
BASEMENT	368.	47.	0.
	1170	1169	67



<div>Mechanical Design Report</div> <div>Low rise residential</div>					<div>Ottawa</div>	
Location of Installation	Address			House Builder		
	Application Number			House Model (if applicable)		
Installing Contractor	Name					
	Address					
	City			Postal Code		
	Telephone Number			Fax Number		
SYSTEM DESIGN PARAMETERS						
Combustion Appliances 9.32.3.1.(1)				Heating System		
a) <input checked="" type="checkbox"/> Direct vent (sealed combustion) only				<input checked="" type="checkbox"/> Forced Air		
b) <input type="checkbox"/> Positive venting induced draft (except fireplaces)				<input type="checkbox"/> Non-Forced Air (Other -)		
c) <input type="checkbox"/> Natural draft, B-vent or induced draft fireplace				<input type="checkbox"/> Electric Space Heat		
d) <input type="checkbox"/> Solid Fuel (including fireplaces)				<input type="checkbox"/> Radiant Floor Heat (attach pipe details)		
e) <input type="checkbox"/> No Combustion Appliances				<input type="checkbox"/> Geothermal (attach loop, pipe & well details)		
				<input type="checkbox"/> High Velocity Residential (attach duct details)		
House Type 9.32.3.1.(2)				Ventilation System		
<input checked="" type="checkbox"/> I Type a) or b) appliances only, no solid fuel				<input type="checkbox"/> CAN/CSA-F326		
<input type="checkbox"/> II Type I except with solid fuel (including fireplace)				<input type="checkbox"/> HRV - Exhaust Ducts / Forced Air System		
<input type="checkbox"/> III Any Type c) appliance = Part 6 Design				<input checked="" type="checkbox"/> HRV - Simplified Connection to Forced Air System		
<input type="checkbox"/> IV Electric space heat				<input type="checkbox"/> HRV - Full Ducting / Not Coupled to Forced Air System		
<input type="checkbox"/> Other: No forced air = Option 4				<input type="checkbox"/> Part 6 Design (Other -)		
EQUIPMENT DESIGN REQUIREMENTS						
Total Ventilation Capacity 9.32.3.3.(1)					TOTAL	
Master Bedroom 1 x 10 L/s = 10 L/s						
Unfinished Basement 1 x 10 L/s = 10						
Other Habitable Rooms 8 x 5 L/s = 40					60 T.V.C.	
Principal Ventilation Capacity 9.32.3.4.(1)						
Master Bedroom 1 x 15 L/s = 15						
Other Bedrooms 2 x 7.5 L/s = 15					- 30 P.V.C.	
Required Supplemental Ventilation Capacity (T.V.C. less P.V.C.) =					30	
Furnace size: GMEC960603BN 60,000 BTU'S KJ						
Air conditioner size: GSX16030 2.5 TON KJ (If provided / applicable)						
Heating / Cooling Equipment sized according to heat loss/gain calculations of CAN/CSA F280: Yes						
Geothermal Equipment designed according to CAN/CSA-C448.2: No						
Hydronic Equipment designed according to CAN/CSA-B214: No						
Duct (and pipe) schematic attached including sizes, runs and material used: Yes						
VENTILATION EQUIPMENT						
Heat Recovery Ventilator						
Model: CLEAN COMFORT VH30100RNC HRV						
60 L/s High 30 L/s Low						



Exhaust Fans					
	Location	Model	L/s	Sones	Principal or Supplemental
1	BATH	DX90	45	2.5	PRINCIPAL
2	ENSUITE	EC50	25	3.	SUPPLEMENTAL
3					
4					

EQUIPMENT EFFICIENCIES (Please also refer to Energy Efficiency Design Summary)

Heating system:

Cooling system (if applicable):

Water heater:

HRV: 75 % sensible efficiency at 0 degrees:

60 % sensible efficiency at -25 degrees:

DESIGNER CERTIFICATION

I hereby certify that this ventilation system has been designed in accordance with the 2012 Ontario Building Code.

Name: LINDA MCPARLAN Company Name: HARDING MECHANICAL

Signature: Linda McParlan Date: JAN 12/21 BCIN 24379 HRAI # 6080

