

Committee of Adjustment Application to Planning Department

Complete Application

A complete development application consists of the following:

- 1. A properly completed and signed application form (signature must be original in planners file);
- 2. Supporting information adequate to illustrate your proposal as indicated in **Section**H of this application form (plans are required in paper copy and digital PDF format);
- 3. Written authorization from all registered owners of the subject lands where the applicant is not the owner as per Section N; and,
- 4. Cash, debit or cheque payable to Norfolk County in the amount set out in the user fees By-Law.

The above information is required to ensure that your application is given full consideration. An incomplete or improperly prepared application will not be accepted and may result in delays during the processing of the application. This application must be typed or printed in ink and completed in full.

Pre-Consultation

A pre-consultation meeting is not required for Committee of Adjustment applications; however, discussion with Planning Department staff prior to the submission of an application is strongly encouraged. The purpose of a pre-consultation meeting is to provide the applicant with an opportunity to present the proposed application, to discuss potential issues and to determine the required information and materials to be submitted with the application in order for it to be considered complete by staff. The applicant has the opportunity to make revisions to the application prior to submission, without the additional costs of recirculation fees. It may be appropriate to seek the assistance of independent professional help (for example a planning consultant or engineer) for complex applications.

Processing the Development Application

Once an application has been deemed complete by a planner, it will be circulated to public agencies and County departments for review and comments. Notice of the application is also provided to adjacent land owners. The comments received assist the planner with the review and recommendation/approval of your application. The time involved in processing an application varies depending upon its complexity and its acceptability to the other agencies.



An additional fee will be required if a review by the Long Point Region Conservation Authority or by the Grand River Conservation Authority is deemed necessary by planning staff and/or by the Authority. A separate cheque payable to the Long Point Region Conservation Authority or the Grand River Conservation Authority is required in accordance with their fee schedule at the same time your application is submitted.

Additional studies required as part of the complete application shall be at the sole expense of the applicant. It should also be noted that in some instances peer reviews may be necessary to review particular studies and that the cost shall be at the expense of the applicant. The company to complete the peer review shall be selected by the County.

If the application is withdrawn prior to the circulation to commenting agencies, the entire original fee will be refunded. If withdrawn after the circulation to agencies, half the original fee will be refunded. No refund is available after the public meeting and/or approval of application.

Notification Sign Requirements

Planning Department staff will post a notification sign on your property in advance of the public meeting. Please keep this sign posted until you have received a notice in the mail indicating that no appeals were filed.

Contact Us

For additional information or assistance in completing this application, please contact a planner at 519-426-5870 or 519-875-4485 extension 1290 or planning@norfolkcounty.ca.

Please submit the completed application and fees to:

185 Robinson Street, Suite 200, Simcoe, ON N3Y 5L6

or

22 Albert Street, Langton, ON N0E 1G0



Pre-consultation Meeting Application Submitted	Application Fee Conservation Authority Fee Well & Septic Info Provided Planner Public Notice Sign
Check the type of plann	ing application(s) you are submitting.
☐ Minor Variance☐ Easement/Right-of-W	g Severance and Zoning By-law Amendment
A. Applicant Informatio	oll Number:
Name of Owner	
It is the responsibility of the ownership within 30 days	ne owner or applicant to notify the planner of any changes in of such a change.
Address	
Town and Postal Code	
Phone Number	
Cell Number	
Email	
Name of Applicant	
Address	
Town and Postal Code	
Phone Number	
Cell Number	
Fmail	



Na	me of Agent			
Ad	dress			
То	wn and Postal Code			
Ph	one Number			
Се	ell Number			
En	nail			
all	•		ould be sent. Unless otherwise dire s application will be forwarded to th	
	Owner	☐ Agent	☐ Applicant	
en B.	cumbrances on the sub	oject lands: scription and Proper lude Geographic Tow	rtgagees, charges or other ty Information nship, Concession Number, Lot Nui	mber,
	Municipal Civic Addres	SS:		
	Present Official Plan	Designation(s):		
	Present Zoning:			
2.	Is there a special prov	ision or site specific z	one on the subject lands?	
	\square Yes \square No If yes,	please specify:		
3	Present use of the sub	piect lands:		



4.	Please describe all existing buildings or structures on the subject lands and whether they are to be retained, demolished or removed. If retaining the buildings or structures, please describe the type of buildings or structures, and illustrate the setback, in metric units, from front, rear and side lot lines, ground floor area, gross floor area, lot coverage, number of storeys, width, length, and height on your attached sketch which must be included with your application:
5.	If an addition to an existing building is being proposed, please explain what it will be used for (for example a bedroom, kitchen, or bathroom). If new fixtures are proposed, please describe.
6.	Please describe all proposed buildings or structures/additions on the subject lands. Describe the type of buildings or structures/additions, and illustrate the setback, in metric units, from front, rear and side lot lines, ground floor area, gross floor area, lot coverage, number of storeys, width, length, and height on your attached sketch which must be included with your application:
7.	Are any existing buildings on the subject lands designated under the $Ontario$ $Heritage\ Act$ as being architecturally and/or historically significant? Yes \square No \square If yes, identify and provide details of the building:
8.	If known, the length of time the existing uses have continued on the subject lands:
9.	Existing use of abutting properties:
10.	Are there any easements or restrictive covenants affecting the subject lands? ☐ Yes ☐ No If yes, describe the easement or restrictive covenant and its effect:



C. Purpose of Development Application

Note: Please complete all that apply.

1.	Site Information	Existing	Proposed
Ρle	ease indicate unit of	measurement, for example: m, m ²	or %
Lo	t frontage		
Lo	t depth		
Lo	t width		
Lo	t area		
Lo	t coverage		
Fre	ont yard		
Re	ear yard		
Le	ft Interior side yard		
Ri	ght Interior side yard		
Ex	terior side yard (corr	er lot)	
3.	Please explain why By-law:	it is not possible to comply with the	e provision(s) of the Zoning
4.	Description of land Frontage: Depth: Width: Lot Area: Present Use:	ntended to be severed in metric u	nits:
	Proposed Use: _		
	Proposed final lot s	ze (if boundary adjustment):	



	, ,	n the parcel will be added:
	Description of lan	d intended to be retained in metric units:
	Depth:	
	Width:	
	Lot Area:	
	Present Use:	
	Proposed Use:	
	Buildings on retai	ned land:
5.	Description of pro	oposed right-of-way/easement in metric units:
	Depth:	
	Width:	
	Area:	
	Proposed Use:	
6.		in Norfolk County, which are owned and farmed by the applicant are farm operation:
Ov	vners Name:	
Rc	oll Number:	
То	tal Acreage:	
W	orkable Acreage:	
Ex	sisting Farm Type:	(for example: corn, orchard, livestock)
Dv	velling Present?:	☐ Yes ☐ No If yes, year dwelling built



Ow	ners Name:	
Ro	II Number:	·
To	tal Acreage:	
Wo	orkable Acreage:	
Ex	isting Farm Type:	(for example: corn, orchard, livestock)
Dw	elling Present?:	☐ Yes ☐ No If yes, year dwelling built
Ow	ners Name:	
Ro	II Number:	
To	tal Acreage:	
Wo	orkable Acreage:	
Ex	isting Farm Type:	(for example: corn, orchard, livestock)
Dw	elling Present?:	☐ Yes ☐ No If yes, year dwelling built
Ow	ners Name:	
Ro	II Number:	
To	tal Acreage:	
Wo	orkable Acreage:	
Ex	isting Farm Type:	(for example: corn, orchard, livestock)
Dw	elling Present?:	☐ Yes ☐ No If yes, year dwelling built
No	te: If additional	space is needed please attach a separate sheet.
D.	Previous Use of	the Property
1.		n industrial or commercial use on the subject lands or adjacent
	If yes, specify the	e uses (for example: gas station, or petroleum storage):
2.		believe the subject lands may have been contaminated by former or adjacent sites?□ Yes □ No □ Unknown
3.	Provide the inform	nation you used to determine the answers to the above questions:



4.	If you answered yes to any of the above questions in Section D, a previous use inventory showing all known former uses of the subject lands, or if appropriate, the adjacent lands, is needed. Is the previous use inventory attached? \square Yes \square No
E.	Provincial Policy
1.	Is the requested amendment consistent with the provincial policy statements issued under subsection 3(1) of the <i>Planning Act, R.S.O. 1990, c. P. 13</i> ? \square Yes \square No
	If no, please explain:
2.	It is owner's responsibility to be aware of and comply with all relevant federal or provincial legislation, municipal by-laws or other agency approvals, including the Endangered Species Act, 2007. Have the subject lands been screened to ensure that development or site alteration will not have any impact on the habitat for endangered or threatened species further to the provincial policy statement subsection 2.1.7? \square Yes \square No
	If no, please explain:
3.	Have the subject lands been screened to ensure that development or site alteration will not have any impact on source water protection? \square Yes \square No
	If no, please explain:
	Note: If in an area of source water Wellhead Protection Area (WHPA) A, B or C please attach relevant information and approved mitigation measures from the Risk Manager Official.



4.	Are any of the following uses or features on the subject lands or within 500 metres of the subject lands, unless otherwise specified? Please check boxes, if applicable.
	Livestock facility or stockyard (submit MDS Calculation with application)
	\square On the subject lands or \square within 500 meters – distance
	Wooded area ☐ On the subject lands or ☐ within 500 meters – distance
	Municipal Landfill ☐ On the subject lands or ☐ within 500 meters – distance
	Sewage treatment plant or waste stabilization plant ☐ On the subject lands or ☐ within 500 meters – distance
	Provincially significant wetland (class 1, 2 or 3) or other environmental feature ☐ On the subject lands or ☐ within 500 meters − distance
	Floodplain ☐ On the subject lands or ☐ within 500 meters – distance
	Rehabilitated mine site ☐ On the subject lands or ☐ within 500 meters – distance
	Non-operating mine site within one kilometre ☐ On the subject lands or ☐ within 500 meters – distance
	Active mine site within one kilometre ☐ On the subject lands or ☐ within 500 meters – distance
	Industrial or commercial use (specify the use(s)) ☐ On the subject lands or ☐ within 500 meters – distance
	Active railway line ☐ On the subject lands or ☐ within 500 meters – distance
	Seasonal wetness of lands ☐ On the subject lands or ☐ within 500 meters – distance
	Erosion ☐ On the subject lands or ☐ within 500 meters – distance
	Abandoned gas wells ☐ On the subject lands or ☐ within 500 meters – distance



F. Servicing and Access

1.	Indicate what services are available or proposed:		
	Water Supply		
	☐ Municipal piped water		Communal wells
	☐ Individual wells		Other (describe below)
	Sewage Treatment		
	☐ Municipal sewers		Communal system
	$\hfill \square$ Septic tank and tile bed in good working order		Other (describe below)
	Storm Drainage		
	☐ Storm sewers		Open ditches
	☐ Other (describe below)		
2.	Existing or proposed access to subject lands		Do to tall tall
	☐ Municipal road		Provincial highway
	☐ Unopened road Name of road/street:	Ш	Other (describe below)
G.	Other Information		
1.	Does the application involve a local business? $\ \square$	Yes	s □ No
	If yes, how many people are employed on the sub	ject	lands?
2.	Is there any other information that you think may be application? If so, explain below or attach on a se		



H. Supporting Material to be submitted by Applicant

In order for your application to be considered complete, folded hard copies (number of paper copies as directed by the planner) and an **electronic version (PDF) of the site plan drawings, additional plans, studies and reports** will be required, including but not limited to the following details:

- 1. Concept/Layout Plan
- 2. All measurements in metric
- 3. Existing and proposed easements and right of ways
- 4. Parking space totals required and proposed
- 5. All dimensions of the subject lands
- 6. Dimensions and setbacks of all buildings and structures
- 7. Location and setbacks of septic system and well from all existing and proposed lot lines, and all existing and proposed structures
- 8. Names of adjacent streets
- 9. Natural features, watercourses and trees

In addition, the following additional plans, studies and reports, including but not limited to, may also be required as part of the complete application submission:

Zoning Deficiency Form

On-Site Sewage Disposal System Evaluation Form (to verify location and condition)

Environmental Impact Study

Geotechnical Study / Hydrogeological Review

Minimum Distance Separation Schedule

Record of Site Condition

Agricultural Impact Assessment

Your development approval might also be dependent on Ministry of Environment Conservation and Parks, Ministry of Transportation or other relevant federal or provincial legislation, municipal by-laws or other agency approvals.

All final plans must include the owner's signature as well as the engineer's signature and seal.



I. Transfers, Easements and Postponement of Interest

The owner acknowledges and agrees that if required it is their solicitor's responsibility on behalf of the owner for the registration of all transfer(s) of land to the County, and/or transfer(s) of easement in favour of the County and/or utilities. Also, the owner further acknowledges and agrees that it is their solicitor's responsibility on behalf of the owner for the registration of postponements of any charges in favour of the County.

Permission to Enter Subject Lands

Permission is hereby granted to Norfolk County officers, employees or agents, to enter the premises subject to this application for the purposes of making inspections associated with this application, during normal and reasonable working hours.

Freedom of Information

For the purposes of the Municipal Freedom of Information and Protection of Privacy Act, I authorize and consent to the use by or the disclosure to any person or public body any information that is collected under the authority of the Planning Act, R.S.O. 1990, c. P. 13 for the purposes of processing this application. Owner/Applicant/Agent Signature Date J. Owner's Authorization If the applicant/agent is not the registered owner of the lands that is the subject of this application, the owner must complete the authorization set out below. _____ am/are the registered owner(s) of the I/We lands that is the subject of this application. ____to make this application on I/We authorize my/our behalf and to provide any of my/our personal information necessary for the processing of this application. Moreover, this shall be your good and sufficient authorization for so doing. Owner Date

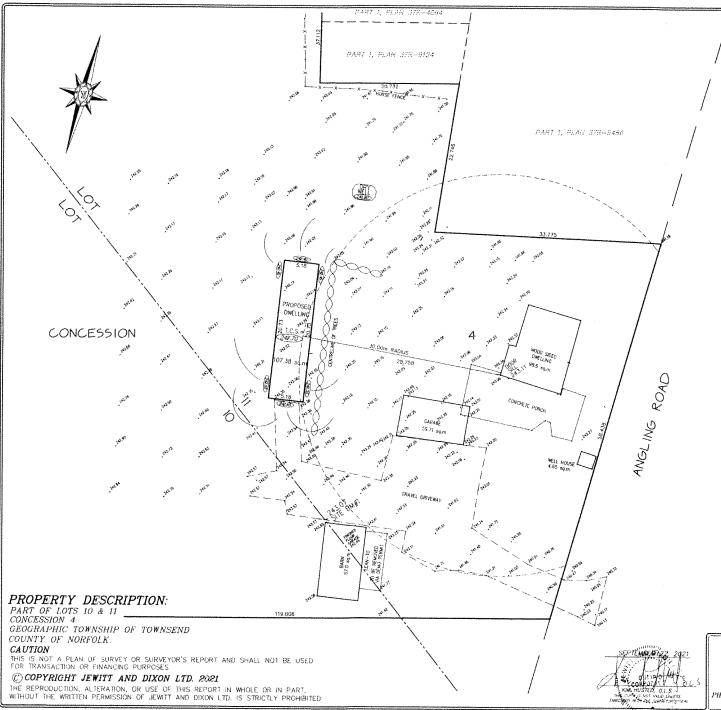


Owner

Date

K. Declaration	
Ι,	_of
solemnly declare that:	
all of the above statements and the state transmitted herewith are true and I make believing it to be true and knowing that it under oath and by virtue of <i>The Canada</i>	this solemn declaration conscientiously is of the same force and effect as if made
Declared before me at:	
	Owner/Applicant/Agent Signature
In	
Thisday of	
A.D., 20	
A Commissioner, etc.	





SKETCH PREPARED FOR BUILDING PERMIT APPLICATION

FOR: CURTIS OTT #289 ANGLING ROAD WATERFORD

PIN 50275 - 0139 (LT) SCALE: 1 : 250

25 0 10 METRES

JEWITT AND DIXON LTD.

LEGEND			
BELL BOX	SHOWN	88X	O
BENCH MARK	SHOWN	BM	•
CATCH BASIN	SHOWN	CB	200
TOP OF FOUNDATION	SHOWN	TOF	
OVERHEAD HYDRO LINE	SHOWN	0/H	
WATER VALVE	SHOWN	WV	Æ
HYDRO POLE	SHOWN	1452	•
GAS METER	SHOWN	GM	
MANHOLE	SHOWN	MH	

DRY WELL

DRY WELL TO BE CONSTRUCTED
1.2m L X 2.0m W X 1.2m DEEP
FILLED WITH CLEAR 3/4" GRAVEL
WRAPPED IN TERRAFIX 270R
GEOTEXTILE (c/w 600mm OVERLAP)
TOP WITH TOP SOIL AND SOD

AREA OF ACCESSORY BUILDINGS

NEW STRUCTURE = 107.40 SQ.M. EXSISTING BARN = 67.0 SQ.M. EXISTING GARAGE = 59.71 SQ.M. EXISTING WELL HOUSE = 4.65 SQ.M. TOTAL = 238.76 SQ.M.

NOTES

- (1) A SURVEY OF THE SUBJECT PROPERTY HAS NOT BEEN MADE AVAILABLE.
- (2) PROPOSED BUILDING POSITIONED BY CALCULATIONS, NOT BY ACTUAL SURVEY
- (3) PROPOSED FINAL GRADES ARE SHOWN CEED AND
- (4) T.F.W. DENOTES TOP OF FOUNDATION WALL
- (5) T.C.S. DENOTES TOP OF CONCRETE SLAB
- (6) SITE BENCHMARK DOOR SILL OF SOUTH MAN DOOR OF DWELLING HAVING A SEQUETIC ELEVATION OF 243-11 maters
- (7) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERBY THE ELEVATION OF THE LIPPER LIST OF THE GROUND MATER TRAILS COS. BEARING CAPACITY AND THE ELEVATION OF THE LINDER SOC OF FOOTING PRIOR TO EXCAVATION.
- (8) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERREY THE SITE BENCH MARK PRIOR TO EXCAVATION
- (9) ELEVATIONS ARE REFERRED TO CANADIAN GEODETIC DATUM, CGVD 1928 VERTICAL DATUM
- (10) THS SKETCH WAS COMPLETED FROM FIELD WORK COMPLETED ON THE 30th DAY OF SEPTEMBER, 2020

JEWITT AND DIXON LTD. ONTARIO LAND SURVEYORS

R.R.1, SIMCOE, ONTARIO, N3Y 4J9 (51 PARK ROAD)

PHONE: (519) 426-0842 FAX: (519) 426-1034 E-mail: surveyors@amtelecom.net

F.W.		J.D.
800K	-	LL
CALC.	-	J.L.M.
PLAN		J.L.M.
CHECK	778	K.H.
CLIENT	100	OTT-ACTON
PROJEC	TN	lo21-3033

21-3033-GP

 From:
 Mary Elder

 To:
 Jennifer Catarino

 Cc:
 Mark Acton; Peter Ott

Subject: 289 Angling Road minor variance application

Date: Thursday, January 6, 2022 12:07:57 PM

Attachments: C of A Application - April 2019 fillable Jan 6 revised.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks to both you and Mark for working on this in my absence before Christmas. I have always been bad at math, but when I did the calculations for the application I found the ARU was just under 45% of the single family dwelling size. I was wrong. I have revised the application to include a variance for the size of the ARU as well as the total area of all accessory buildings.

The single detached dwelling is a two storey older brick home. Given the definition of usable floor area and the survey showing the dwelling at 98.5 sq m for one floor, and the sketches by the owner showing the floor layout for both floors being the same overall size, it is reasonable to assume the **total usable floor area is 197 sq m**. I recognize this is a bit larger than the total from the owner's measurements and sketch but I believe the survey measurements to be more accurate.

The survey shows a 107.38 sq m floor area for the ARU. Mark Action explained that the larger area included the pad to support the ARU. Therefore, I believe the manufacturer's drawing is the most accurate for calculating usable floor area. On page 9 of the Ott-Armstrong Ott BCIN file the ARU measures 67 ft by 15 ft 7 inches. That is 20.42 m by 4.75 m or 96.995 sq m. I am going to round that **ARU usable floor area to 97.00 sq m**.

As 45% of the total 197 sq m usable floor area of the single detached dwelling is 88.65 sq m. **Relief of 8.35 sq m is needed** (97.00 - 88.65).

Thanks for catching my error now Jennifer. I have had to revise the relief requested for the amount of accessory buildings as well to be consistent with the above clarification of figures. I believe you will find everything in order now.

I trust the revised application will complete the application.

Mary Elder MCIP RPP Elder Plans Inc. 519-429-4933

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 Information Building number, street name Unit no. Lot/con. Municipality Postal code Plan number/ other description B. Individual who reviews and takes responsibility for design activities Name Street address Unit no. Lot/con. Municipality Postal code Province E-mail Telephone number Fax number Cell number C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of **Division C1** HVAC - House **Building Structural** House Small Buildings **Building Services** Plumbing - House Large Buildings Detection, Lighting and Power Plumbing - All Buildings Complex Buildings On-site Sewage Systems Fire Protection Description of designer's work **Declaration of Designer** declare that (choose one as appropriate): (print name) I review 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: 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: Basis for exemption from registration: The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: 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.

NOTE:

Date

- 1. 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.
- 2. 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 required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Signature of Designer

NOTES:

General:

- -This structure is designed to conform to CAN/CSA-Z240 and will be supported on a concrete slab -on-grade. As such, frost-protection of the supporting slab-on-grade is not required by the Ontario Building Code. Should frost protection not be provided, the slab should be expected to experience some degree of differential frost heave with the onset of freezing temperatures, and subsequent settlement with warmer weather. The 6" to 12" of underslab fill to consist of a free draining material, such as Granular A or B, which will be less susceptible to frost action.
- Water, sewer, gas and other services connected to the building should be designed to flex with the anticipated seasonal movements of the structure.

Surface preparation:

Must be prepared as per CSAZ240.10.1 (5.1.2 and Figure A-1). Backfill base and ground cover are graded centre to outside or from side to side with a minimum slope of 2% and the surrounding finish grade slopes away from home.

Soil conditions:

Minimum soil bearing capacity = 75 kPa, Soil is non-expansive, with no Abnormal conditions, No hydrostatic pressure is likely to occur (ie: base of footing is higher than the water table by at least the width of the largest footing), No significant surcharge load (example heavy vehicle traffic) occurs close to the foundation.

Skirting:

If used, must be installed to accommodate at least 2 inches of vertical movement as per CSAZ240.10.1 (9.1)

Concrete slab:

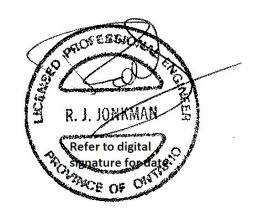
6 inch thick reinforced (fibre or welded wire mesh or equivalent) slab, 32 MPa with 6% air entrainment

Granular:

6" to 12" compacted granular coarse clean granular material containing not more than 10% of material that will pass a 4 mm sieve, OR 3/4" clear crushed stone that is to be compacted before pouring of concrete.

Garage slab:

In lieu of the above, a garage slab can be constructed as per Part 9, where granular is not required.

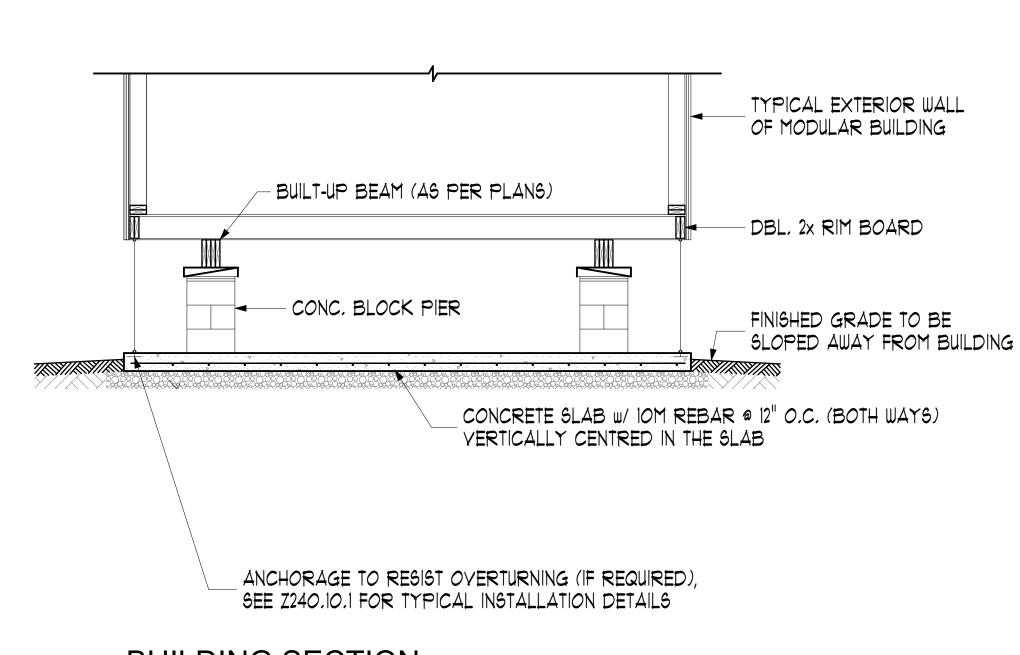


Robert J. Jonkman, P.Eng. 2291680 Ontario Limited 613-853-0052 rjonkman@cwc.ca DRAWN BY: ENG

DATE: SEPTEMBER 24, 2020

DRAWING:

ARMSTRONG TRAILERS

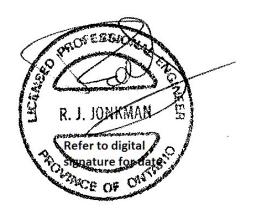


* NOTE:

ENGINEERED STRUCTURAL SLAB
6" THICK CONCRETE SLAB ON GRADE AS
PER NOTES ON SECTION. MIN. 32 MPa, REINF.
5-8% AIR ENTRAINMENT WITH IOM BARS @ 12"
O.C. EACH WAY, ON 12" MIN. OF GRANULAR "B"
TYPE SAND AND GRAVEL COMPACTED TO 98%
SPMDD ON UNDISTURBED SOIL SHAPED TO
PROVIDE POSITIVE DRAINAGE TO PERIMETER
OF SLAB AREA. GRANULAR "B" DRAINAGE
LAYER TO EXTEND A MINIMUM OF 24" BEYOND
EDGE OF STRUCTURAL SLAB.

BUILDING SECTION

SCALE: 3/8" = 1'-0"



Robert J. Jonkman, P.Eng. 2291680 Ontario Limited 613-853-0052 rjonkman@cwc.ca DRAWN BY: ENG

DATE: SEPTEMBER 24, 2020

DRAWING:

ARMSTRONG TRAILERS

Engineer: ROBERT J. JONKMAN, P.ENG. 2291680 ONTARIO LIMITED 613-853-0052 **Scope of Engineer's work on these drawings:**

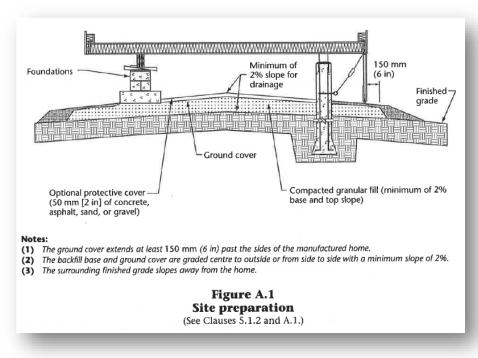
To ensure drawings comply with the Ontario Building Code 2012 Part 9, and/or compliance to CSA Standard Z240.10.1-16, "Site preparation, foundation, and installation of buildings". **Inspection of the building or the foundation is not included as part of my activities.**

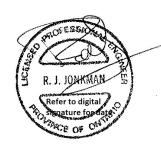
<u>For full foundation with footings below frost:</u> Foundation design VALID ONLY IF: Min soil bearing capacity = 75 kPa, Soil is non-expansive, with no abnormal conditions, no hydrostatic pressure is likely to occur (ie base of footing is higher than the water table by at least the width of the largest footing), not within a flood zone, no significant surcharge load (example heavy vehicle traffic) occurs close to the foundation, and backfill height to basement slab distance is less than 7'6".

<u>For surface pier foundation:</u> For Deformation Resistant homes only, which are constructed upon longitudinal steel or wood beam, and have been permanently marked in accordance with CSA Standard A277 clause 7.4.1 indicating compliance to the deformation resistance test.

In addition to 'full foundation' soil requirements and restrictions... surface pier foundation must comply with the CSA Z240.10.1 (as referenced in OBC 9.15.1.3) in its entirety, including but not limited to, the site preparation, pier, footing, ventilated / slip skirting, multiple section connections, and anchorage provisions. Pier heights are not to exceed pier width unless specifically identified on the drawings and approved by this engineer. Skirting, if used, must be installed to accommodate at least 2 inches of vertical movement as per section 9.1 of the standard.

It is imperative that the ground surface is well drained with a minimum slope of 2%, and prepared as per Z240.10.1 section 5.1.2 and Figure A-1 (copied below). The surrounding finish grade must slope away from the home.





Below-grade footing sizes where loads are specified on drawings to be sized according to NBC/OBC:

soil type	(based on I	ring capacity NBC / OBC Table .4.4.1)	footing load	footing size	footing thickness*
	kPa	psf	lbs	in x in	in
	75	1566	5000	21	9
Firm clay	75	1566	10000	30	13
Fiffi Clay	75	1566	15000	37	17
	75	1566	20000	43	19
	100	2089	5000	19	7
	100	2089	10000	26	11
Dense or	100	2089	15000	32	14
compact silt	100	2089	20000	37	17
	120	2506	5000	17	6
	120	2506	10000	24	10
	120	2506	15000	29	13
	120	2506	20000	34	15
	150	3133	5000	15	6
Stiff clay, dense	150	3133	10000	21	9
or compact sand	150	3133	15000	26	11
or gravel	150	3133	20000	30	13
	200	4177	5000	13	5
Firm clay	200	4177	10000	19	7
FIIIII Clay	200	4177	15000	23	9
	200	4177	20000	26	11
	300	6266	5000	11	3
Clayshala	300	6266	10000	15	6
Clay shale	300	6266	15000	19	7
	300	6266	20000	21	9

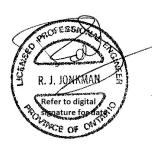


Table 9.4.4.1.
Allowable Bearing Pressure for Soil or Rock
Forming Part of Sentence 9.4.4.1.(1)

Type and Condition of Soil or Rock	Maximum Allowable Bearing Pressure, kPa
Dense or compact sand or gravel ⁽¹⁾	150
Loose sand or gravel ⁽¹⁾	50
Dense or compact silt ⁽¹⁾	100
Stiff clay(1)	150
Firm clay ⁽¹⁾	75
Soft clay(1)	40
Till	200
Clay shale	300
Sound rock	500

A-Table 9.4.4.1. Classification of Soils.

Sand or gravel may be classified by means of a **picket test** in which a 38 mm by 38 mm picket beveled at the end at 45° to a point is pushed into the soil. Such material is classified as "**dense or compact**" if a man of average weight cannot push the picket more than 200mm into the soil and "**loose**" if the picket penetrates 200 mm or more.

Clay and silt may be classified as "stiff" if it is difficult to indent by thumb pressure, "firm" if it can be indented by moderate thumb pressure, "soft" if it can be easily penetrated by thumb pressure, where this test is carried out on undisturbed soil in the wall of a test pit.

Footing sizes for surface foundations supporting single storey deformation resistant buildings may conform with the following table from CSA Z240.10.1 instead of the above table.

	Pier spacing	g, m (ft)		
Type of soil	1.8 (6)	2.4 (8)	3.0 (10)	3.6 (12)
Soft clay, oose sand, or oose gravel	0.32 (3.3)	0.41 (4.4)	0.51 (5.5)	0.61 (6.6)
Firm clay or compact silt	0.16 (1.8)	0.22 (2.4)	0.27 (2.9)	0.33 (3.5)
Compact sand, compact gravel, stiff clay, or till	0.08 (0.9)	0.11 (1.2)	0.14 (1.5)	0.16 (1.8)
Shale or rock	0.04 (0.5)	0.05 (0.6)	0.07 (0.8)	0.08 (0.9)



Below-grade footing sizes for buildings other than described above, based on NBC 9.15.3.4, with maximum 10 ft o.c. column spacing:

24" x 24" x 12"	Supporting one storey
34" x 34" x 12"	Supporting two storeys
40" x 40" x 12"	Supporting three storeys

In no case is the thickness of the footing to be less than the width of the projection of the footing beyond the supported element.

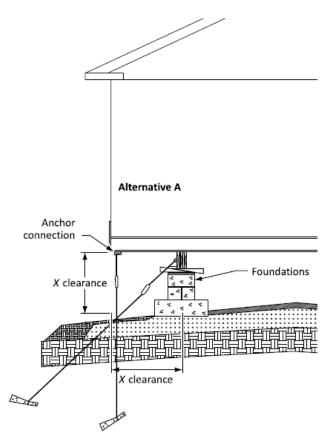
Ground anchorages

Unless drawings are accompanied by building-specific calculations demonstrating that ground anchorages are not needed, **ground anchorages are required** for all homes without basements where any one of the following occurs:

- the building is installed on a site that is not flat,
- the height from the ground to the eave exceeds 10'-6"
- the total width of the buildings is narrower than 12'-8",
- the outside edge of the building extends past the outside of the longitudinal beam by more than 2'-0" (ie the building wall cantilevers past the longitudinal beam by more than 2'-0", see image below)
- the weight of the building is less than 34 psf (166 kg/m²)
- the exposure condition is considered "escarpment" ($C_eC_t=1.0$) or "open terrain" ($C_eC_t=0.90$), or
- the pier height exceeds the pier width.

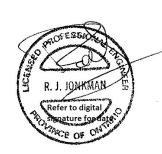
Experience has shown that unanchored buildings without basements can be life threatening during tornadoes or high wind storms, particularly when unanchored buildings are located close to one another. Damage as a result of a tornado or high wind storm can be greatly reduced when walls are effectively anchored to the ground.

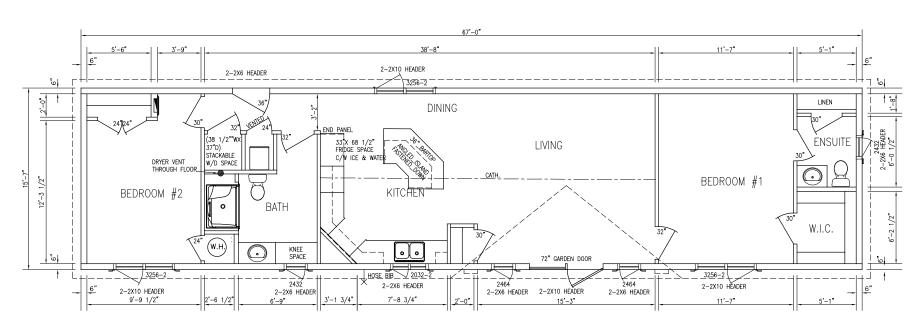




Where provided, anchorages shall be installed in accordance with Z240.10.1-16 clause 7, and shall incorporate 3-4 inches of slack in order to accommodate frost movement.

Table 4 Wind exposure factor, C_eC_t (See Clause 7.1.2.)	
Exposure condition	C_eC_t
Escarpment — building is located on a hill or escarpment located within twice the hill or escarpment height from the edge of the hill or escarpment	1.0
Open terrain — building is located on open, level terrain with only scattered trees, buildings or other obstructions, open water or shorelines thereof	0.90
Intermediate terrain — where the terrain falls between the exposures described above and below	See <i>NBC,</i> Clause 4.1.7.1.(5)(c)
Rough terrain — which is suburban, urban or wooded terrain extending upwind from the building uninterrupted for at least 1 km $$	0.70





DRAWING LIST:

- 1. FLOOR PLAN 2. EXTERIOR ELEVATIONS
- 3. FOUNDATION
- 4. ELECTRICAL LAYOUT
- 5. DUCT LAYOUT
- 6. CROSS SECTION

CLIMATIC DATA

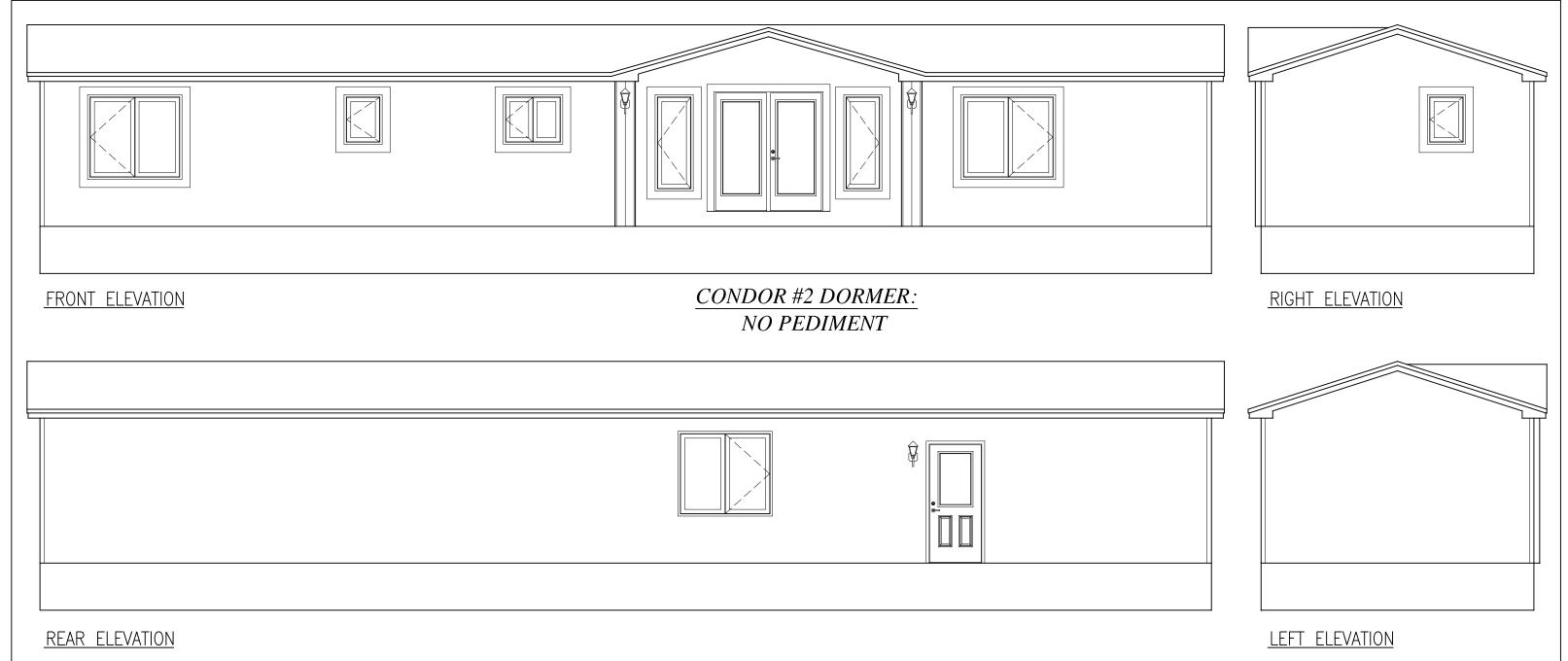
- DESIGN DATA: HAMILTON, ON
- GROUND SNOW LOAD: 1.1 kPa - RAIN LOAD: 0.4 kPa
- SPECIFIED SNOW LOAD: 1.0 kPa
- 1/50 WIND: 0.46 kPa
- DEGREE DAYS: 3460

- 1. ROOF TRUSSES TO BE SEALED BY ONTARIO ENGINEER
- 2. ALL GUARDS, STAIRS, AND DECKS INSTALLED ON-SITE TO BE IN CONFORMANCE WITH THE 2012 ONTARIO BUILDING CODE, TO BE CONSTRUCTED ON-SITE BY OTHERS, NOT INCLUDED IN THIS DRAWING PACKAGE.
- 3. ALL LUMBER TO BE SPF #1/2.
- ALL WORK, INCLUDING WOOD CONNECTIONS TO BE COMPLETED IN ACCORDANCE WITH PART 9 OF THE 2012 ONTARIO BUILDING CODE.
- SINGLE JACK STUD TO SUPPORT LINTELS UNLESS OTHERWISE NOTED.
- ATTIC AND CRAWL SPACE ACCESS TO BE PROVIDED IN CONFORMANCE WITH 2012 ONTARIO BUILDING CODE WHERE APPLICABLE.
- 7. 9.29.2.1. WATERPROOF WALL FINISH REQUIRED TO A HEIGHT NOT LESS THAN:
 - -1.8M ABOVE THE FLOOR IN SHOWER STALLS -1.2M ABOVE THE RIMES OF BATHTUBS EQUIP

		-1.8M ABOVE THE FL -1.2M ABOVE THE RII -400MM ABOVE THE	OOR IN SHOWER STALLS MES OF BATHTUBS FOOTBRID WITH SHOWER RIM OF BATHTUBS JUHNUT SHOWER
Rev.	Description	MADIE I EAE HOMES INC	Date: JULY 14 202
		\exists MAPLE LEAF HOMES, INC.	
		FREDERICTON, NB	3/16"=1 = b" R. J. JOHKMAN 5
		CANADA	Drn. by: SH Refer to digital
		Drawing Title:	Chk'd by: Signature for date
		ARMSTRONG	The are Children
		OTT ORDER #46318	Drawing No. Sheet No.
		WATERFORD, ON	ARM3221 1

CODE REQUIREMENTS

- 2012 ONTARIO BUILDING CODE
- 2018 ONTARIO ELECTRICAL SAFETY CODE
- CAN/CSA A277
- INSÚLATION REQUIREMENTS: AS PER ENERGY EFFICIENCY FORM



NOTE:

TOTAL ROOF VENTALATION REQUIRED IS 543 SQIN. VENTILATION THROUGH SOFFIT IS 378 SQIN AND THE REMAINDER IS THROUGH THE RIDGE VENT. NO LESS THAN 25% VENTILATION WILL BE AT BOTTOM OF ROOF AND NOT LESS THAN 25% AT TOP OF ROOF.

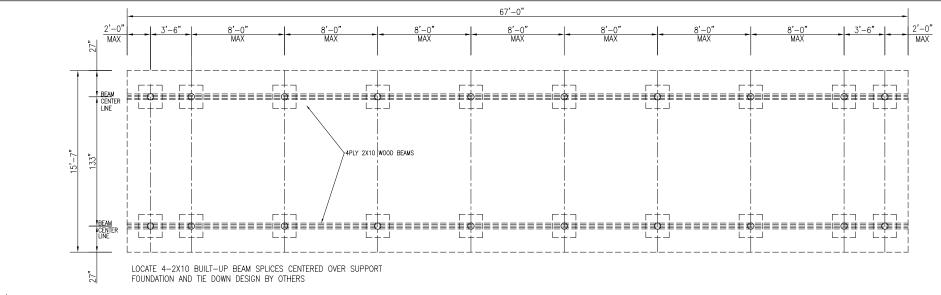
CODE REQUIREMENTS

- 2012 ONTARIO BUILDING CODE
- 2018 ONTARIO ELECTRICAL SAFETY CODE
- CAN/CSA A277
- INSÚLATION REQUIREMENTS: AS PER ENERGY EFFICIENCY FORM

CLIMATIC DATA

- DESIGN DATA: HAMILTON, ON
- GROUND SNOW LOAD: 1.1 kPa
- RAIN LOAD: 0.4 kPa
- SPECIFIED SNOW LOAD: 1.0 kPa
- 1/50 WIND: 0.46 kPa
- DEGREE DAYS: 3460

Rev.	Description		Date: JULY 14 2021
		⊣MAPLE LEAF HOMES, INC.	Scale:
		FREDERICTON, NB	3/16"=1'-0"
		CANADA	Drn. by: B R. J. JOHKMAN S
		Drawing Title:	SH Chk'd by: Refer to digital
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		OTT ORDER #46318	Drawing No.
		WATERFORD, ON	ARM3221 2



Design Parameters:

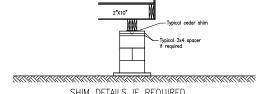
1. Loads:

Ground Snow - 1.1 kPa Roof Snow — 1.0 kPa Roof Rain — 0.4 kPa Wind - 0.46 kPa Floor Live - 1.92 kPa Floor Dead - 0.77 kPa

2. Codes:

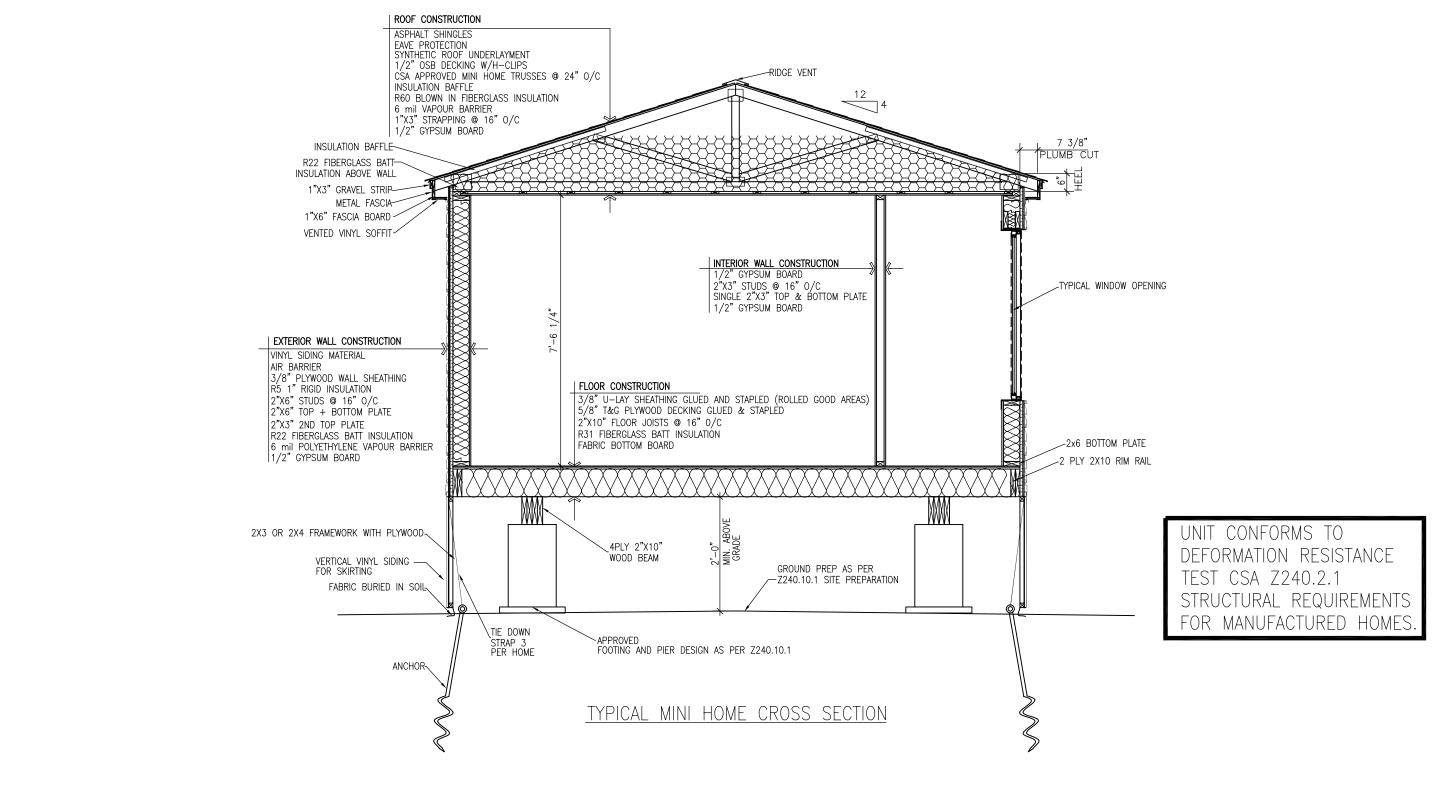
2012 Ontario Building Code 2018 Ontario Electrical Safety Code INSULATION REQUIREMENTS: AS PER ENERGY EFFICIENCY FORM

- 3. Soil bearing capacity of site pad to be confirmed by others.
- 4. Site pad to be designed by others and to meet the requirements of CSA-Z240.10.1 and/or this package. Area around site pad that is to be used for trucks, cranes and equipment is to be free of mud & debris with compactable, free draining material.
- 5. The effects of wind on overturning and sliding have been reviewed by the engineer. No tie downs are required and pier connections are to be as in pier designs.
- 6. Cedar shims should only be used if shim depth is 1/4" or less. Shims should be inserted from both directions for even bearing and be the width of the block it is resting on.
- 7. Additional 2x4 spacers may be used for leveling purposes to an overall depth of 3".



SHIM DETAILS IF REQUIRED

			CO PRIOR TO A STATE OF THE PRI
Rev.	Description	MADIELEAELIOMEC INC	Date: JULY 14 202
		$\underline{\hspace{0.1cm}}$ MAPLE LEAF HOMES, INC.	
		FREDERICTON, NB	3/16"=1=0" R.J. JUNKMAN
		CANADA CANADA	Drn. by: SH Refer to digital
		Drawing Title:	Chk'd by:
		ARMSTRONG	PACE OF CA
		OTT ORDER #46318	Drawing No. Sheet No.
		WATERFORD, ON	ARM3221 3



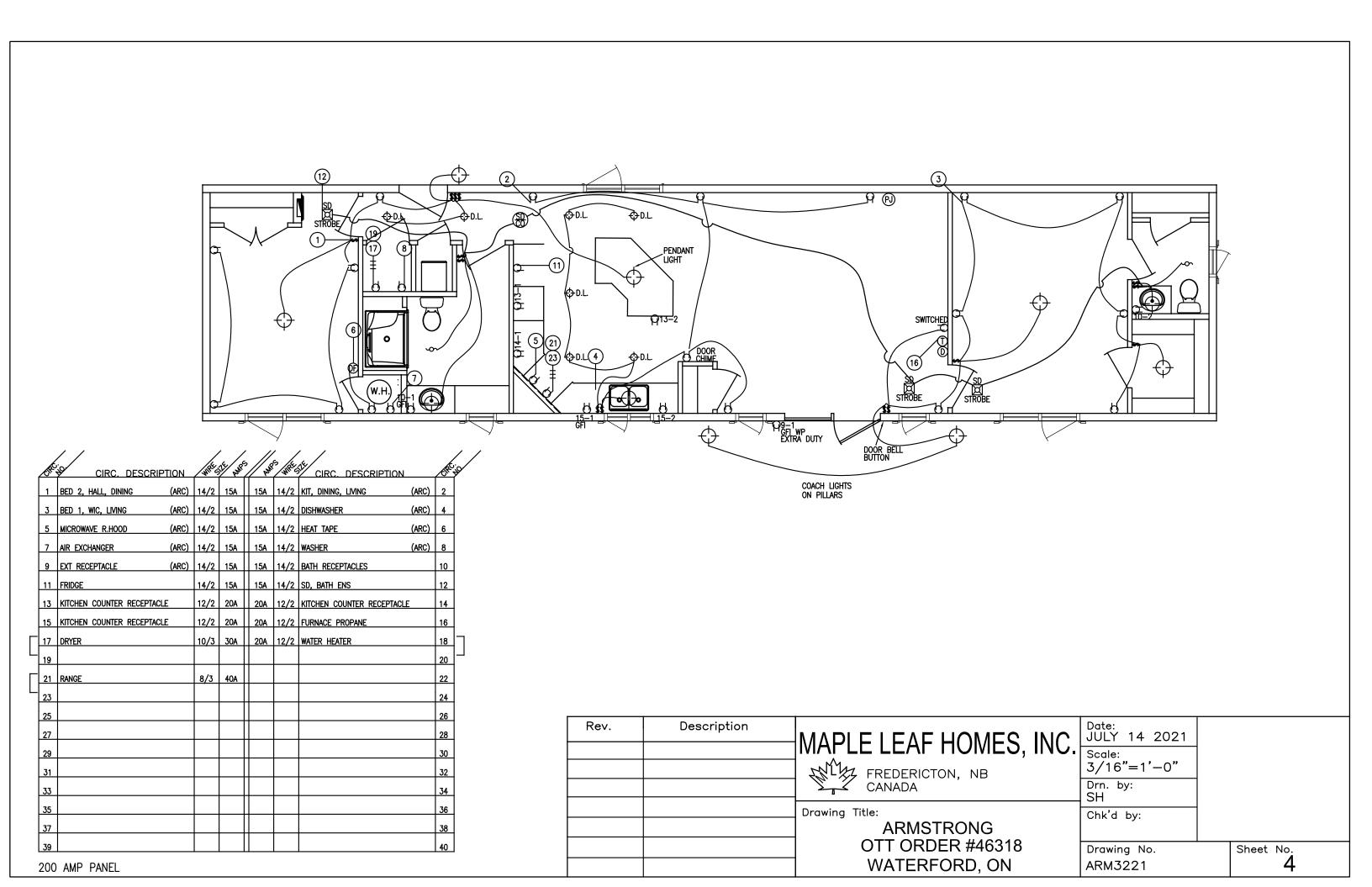
CODE REQUIREMENTS

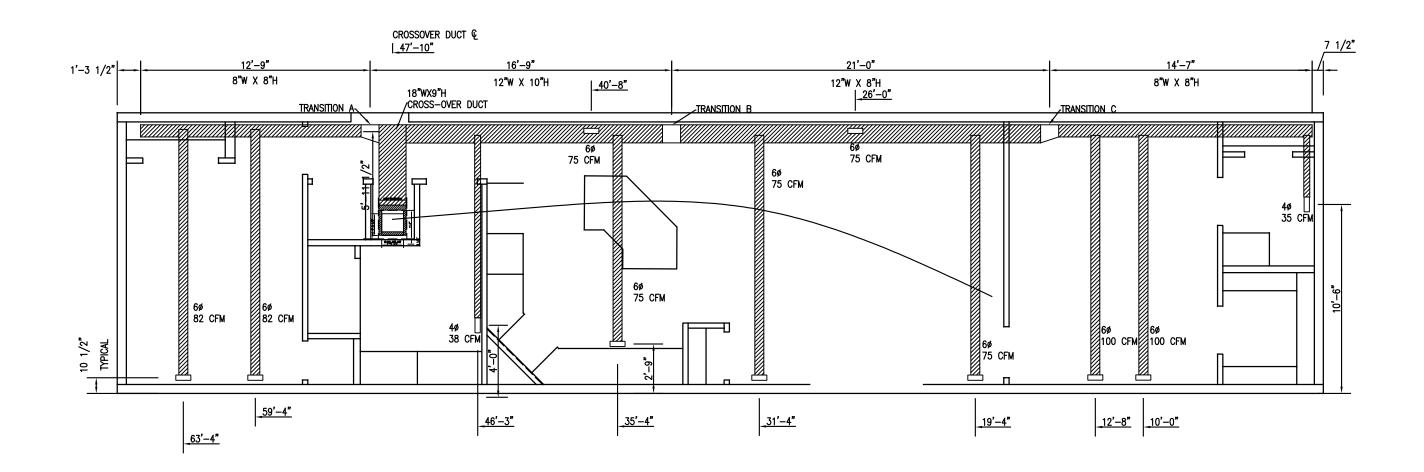
- 2012 ONTARIO BUILDING CODE
- 2018 ONTARIO ELECTRICAL SAFETY CODE
- CAN/CSA A277
- INSULATION REQUIREMENTS: AS PER ENERGY EFFICIENCY FORM

CLIMATIC DATA

- DESIGN DATA: ORILLIA, ON
- GROUND SNOW LOAD: 1.1 kPa
- RAIN LOAD: 0.4 kPa
- SPECIFIED SNOW LOAD: 1.0 kPa
- 1/50 WIND: 0.46 kPa
- DEGREE DAYS: 3460

				The state of the s
Rev.	Description	MAPLE LEAF HOMES, INC.	Date: JULY 14 2021	PROSESSAO
		⊣	Scale: 3/8"=1'-0"	
		FREDERICTON, NB CANADA	Drn. by:	R. J. JOHAMAN
		Drawing Title:	Chk'd by:	Refer to digital
		ARMSTRONG		signature for date
		OTT ORDER #46318	Drawing No.	Shed N8
		WATERFORD, ON	ARM3221	6





- <u>DESIGN PARAMETERS:</u>
 FURNACE MODEL: INTERTHERM MG2R045F
- MOTOR SPEED SETTING: LOW/MED
- EXTERNAL STATIC PRESSURE: 0.4" W.C.
- FURNACE AIRFLOW: 811 CFM
- LOWEST FRICTION RATE: 0.08" W.C.

			<u> </u>	
Rev.	Description	MAPLE LEAF HOMES, INC.	Date: JULY 14 2021	
		\exists MAPLE LEAF HOMES, INC.	Scale:	
		FREDERICTON, NB	3/16"=1'-0"	
		CANADA	Drn. by:	
		Drawing Title:	Chk'd by:	
		ARMSTRONG		
		OTT ORDER #46318	Drawing No.	Sheet No.
		WATERFORD, ON	ARM3221	5

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/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

			For use by P					
Application No:				Model/0	Certification Number			
A. Project Informatio	n							
Building number, street name						Unit number	Lot/Co	o n
Municipality		Postal o	code	T Rea. Pl	an number / other descrip	ition		
B. Prescriptive Co	mpliance	[indicate the	building code co	mpliance	package being empl	oyed in this house	design]	
SB-12 Prescriptive (inp	ut design pa	nckage): P	Package:		Tabl	e:		
C. Project Design Co								
Climatic Zone (SB-1):		Heating Ed	quipment Effic	ciency	Space Heating I	Fuel Source		
□ Zone 1 (< 5000 degree day		□ ≥ 92% AF	_		□ Gas	□ Propane		id Fuel
□ Zone 2 (≥ 5000 degree day			92% AFUE		□ Oil	□ Electric		th Energy
Ratio of Windows, Skylights	s & Glass (V	w, S & G) to	o wali Area		Other Building			ICF Basement
Area of walls =m ² or	_ft²	W C 8 C	2.07		☐ Slab-on-groun			loi basement
			6 % =		☐ Air Conditionin			
Area of W, S & G =m^2 o	U	Itilize window	vaveraging: □\	∕es □No	☐ Air Sourced H		•	
Area of W, S & G =m ⁻ o	rtt ⁻				□ Ground Source	ed Heat Pump (GSHP)	
D. Building Specifica	tions [provi	ide values an	nd ratings of the	energy eff	iciency components	proposed]		
Energy Efficiency Subs	titutions							
□ ICF (3.1.1.2.(5) & (6) / 3.1.	1.3.(5) & (6)))						
□ Combined space heating a		· ·	iting systems ((3.1.1.2.(7) / 3.1.1.3.(7))			
□ Airtightness substitution(s)								
(2)	□ Table 3.1	.1.4.B Red	quired:		Permi	tted Substitution	: <u></u>	
Airtightness test required (Refer to Design Guide Attached)	□ Table 3.1	.1.4.C Re	auired:		Permi	ted Substitution	:	
(Note: to besign duide Attachea)	- rabio 0.1					tted Substitution		
Building Compone	nt N	Minimum R	quired: SI / R values		Building Comp			ncy Ratings
			m U-Value ⁽¹⁾					
Thermal Insulation		Nominal	Effective		ws & Doors Pro		R rating	
Ceiling with Attic Space					ws/Sliding Glass			
Ceiling without Attic Space	!				ts/Glazed Roofs			
Exposed Floor				Mecha				
Walls Above Grade					g Equip.(AFUE)			
Basement Walls				HRV E	fficiency (SRE% at	: 0° C)		
Slab (all >600mm below grade)				DHW F	leater (EF)			
Slab (edge only ≤600mm below	grade)			DWHR (CSA B55.1 (min. 42% efficiency)) # Showers				
Slab (all ≤600mm below grade,	or heated)			Combin	ned Heating Syste	em		
(1) U value to be provided in eith	ner W/(m²•K) o	or Btu/(h•ft²•F) but not both.					
E. Designer(s) [name(s)	& BCIN(s), if	applicable, o	of person(s) prov	riding infor	mation herein to sub	stantiate that desi	gn meets the	building code]
Qualified Designer Declarati	on of designe	r to have rev	iewed and take	responsib	lity for the design wo	ork.		
Name				BCIN		Signature		

Guide to the Prescriptive Energy Efficiency Design Summary Form

This form must accurately reflect the information contained on the drawings and specifications being submitted. Refer to Supplementary Standard SB-12 for details about building code compliance requirements. Further information about energy efficiency requirements for new buildings is available from the provincial building code website or the municipal building department.

The building code permits a house designer to use one of four energy efficiency compliance options:

- 1. Comply with the SB-12 Prescriptive design tables (this form is for this option (Option 1)),
- 2. Use the SB-12 Performance compliance method, and model the design against the prescriptive standards,
- 3. Design to Energy Star, or
- 4. Design to R2000 standards.

COMPLETING THE FORM

B. Compliance Options

Indicate the compliance option being used.

• <u>SB-12 Prescriptive</u> requires that the building conforms to a package of thermal insulation, window and mechanical system efficiency requirements set out in Subsection 3.1.1. of SB-12. Energy efficiency design modeling and testing of the building is not required under this option. Certain substitutions are permitted. In which case, the applicable airtightness targets in Table 3.1.1.4.A must be met.

C. Project Design Conditions

Climatic Zone: The number of degree days for Ontario cities is contained in Supplementary Standard SB-1 Windows, Skylights and Glass Doors: If the ratio of the total gross area of windows, sidelights, skylights, glazing in doors and sliding glass doors to the total gross area of walls is more than 17%, higher efficiency glazing is required. If the ratio is more than 22%, the SB-12 Prescriptive option may not be used. The total area is the sum of all the structural rough openings. Some exceptions apply. Refer to 3.1.1.1. of SB-12 for further details. Fuel Source and Heating Equipment Efficiency: The fuel source and efficiency of the proposed heating equipment must be specified in order to determine which SB-12 Prescriptive compliance package table applies. Other Building Conditions: These construction conditions affect SB-12 Prescriptive compliance requirements.

D. Building Specifications

Thermal Insulation: Indicate the RSI or R-value being proposed where they apply to the house design. Under the <u>SB-12 Prescriptive</u> option, alternative ICF wall insulation is permitted in certain conditions where other design elements meet higher standards. Refer to SB-12 for further details. Where effective insulation values are being used, the Authority Having Jurisdiction may require supporting documentation.

BUILDING CODE REQUIREMENTS FOR AIRTIGHTNESS IN NEW HOUSES

All houses must comply with increased air barrier requirements in the building code. Notice of air barrier completion must be provided and an inspection conducted prior to it being covered.

The air leakage rates in Table 3.1.1.4.A are not requirements. This provision is a voluntary provision for when credits for airtightness are claimed. Credit for air tightness allows the designer to substitute the requirements of compliance packages as set out in Table 3.1.1.4.B or 3.1.1.4.C. Neither the air leakage test nor compliance with airtightness targets given in Table 3.1.1.4.A are required, unless credit for airtightness is claimed. Table 3.1.1.4.A provides airtightness targets in three different metrics; ACH, NLA, NLR. Any one of them can be used. OBC Reference Default Air Leakage Rates (Table 3.1.1.4.A)

D. ildia a T	Airtightness Targets							
Building Type	ACH @ 50 Pa	NLA @	2 10 Pa	NLR @ 50 Pa				
Detached dwelling	2.5	1.26 cm ² /m ² 1.81 in ² /100ft ²		0.93 L/s/m ²	0.18 cfm50/ft ²			
Attached dwelling	3.0	2.12 cm ² /m ²	3.06 in ² /100ft ²	1.32 L/s/m ²	0.26 cfm50/ft ²			

The building code requires that a blower door test be conducted to verify the air tightness of the house during construction if the <u>SB-12 Prescriptive</u> option with airtightness credit being applied. Results of the airtightness test may need to be submitted to the Authority Having Jurisdiction. Airtightness of less than 2.5 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of detached houses, or 3.0 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of attached houses is necessary to meet the required energy efficiency standard.

E. House Designer

The building code requires designers providing information about whether a building complies with the building code to have a BCIN. Exemptions apply to architects, engineers and owners designing their own house.

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY for design and performance of residential ventilation systems to OBC 2012 Div. B 9.32			
NOI	1. Location Township:	8. TVC System	
LOCATION	Civic Address:	☐ HRV ☐ Central Exhaust ☐ Multiple Fans	TVC
	2. Builder Name:	☐ HRV ☐ Central Exhaust ☐ Multiple Fans	SYS
BUILDER	Address: City:	9. Principal Exhaust Fan Capacity (PEF)	
BUI	Postal Code:Ph:Fax:	Master Bedroom @ 31.8CFM(15L/S)	ACITY
	3. Designer Name:	Master Bedroom	CAP/
NER	Address:	Total	PRINCIPAL EXH. FAN CAPACITY
DESIGNER	Postal Code: City:	Fan 1 10. Principal Exhaust Fan	
	Ph: Fax:	Location	<u> </u>
	Firm BCIN:	Manufacturer Model HVI rated	PRINCIPAL EXHAUST FAN
	Designer BCIN:	Design Airflow High Low Sones	PRINCIPAL KHAUST FA
	HRAI#:	If Using HRV/ERV:	EXH THE
	4. Heating Systems	% Sensible Efficiency @ 0°Cwatts% Sensible Efficiency @ -25°Cwatts	
9 2	Forced Air Non Forced Air Oil	11. Supplemental Exhaust Fan Capacity (SEF)	_
HEATING SYSTEM	I nonceasing them to receasing the control of the c		ITAL PACIT
불양	☐ Electric ☐ Gas ☐ Other	Total Ventilation Capacity	IMEN T CAF
	5. Combustion Appliances 9.32.3.1.(1)	Less Principle Ventilation Capacity Required Supplemental Ventilation Capacity	SUPPLIMENTAL EXHAUST CAPACITY
S S	5. Combustion Appliances 9.32.3.1.(1)	required Supplemental Ventilation Capacity	EX
HEATING SYSTEM COMBUSTION APPLIANCES	a) Direct Vent	12. Additional Equipment	
VG SV	b) Induced Draft	Fan 2	
EATII BUSTIC	c) Natural Draft d) Solid Fuel Appliances	LocationSones	
COMI	. Solid Fuel Appliances	Manufacturer/Model TVC	
		Design airflowCFM	
	6. Type of House 9.32.3.1.(2)		NUST
w	☐Type 1 a) or b) type appliances only	Fan 3	NAL EXHAUST
HOUSE	\square Type 2 a) or b) type appliances with a d) type appliance	LocationSones Manufacturer/ModelTVC	NAL EXH
_	☐Type 3 any type c) appliance = part 6 design	Manufacturer/Model TVC Design airflow	ADDITIO EQU
	☐Type 4 electric space heat		ADI
	7. System Design Option	Fan 4	-
SYSTEM DESIGN OPTION	Substant ask formed six numbers (seconds)	Location Sones	
A DE	Exhaust only forced air system/coupled HRV with extended exhaust or simplified coupled	Manufacturer/Model TVC	
/STEI	HRV full ducting/not coupled to forced air	Design airflow	
S	Part 6 design		
	8.TVC Capacity OBC 9.32.3.3	13 Designer Consent	
TOTAL VENTILATION CAPACITY (TVC)	Bsmt & Master bedroom @ 21.2 CFM (10 L/S)	l, have reviewed and take responsibility for the design work	~ ·
	Other Bedrooms @ 10.6 CFM (5 L/S)	described In this document and I am qualified in the appropriate	DESIGNER CONSENT
VENT	Bathrooms & Kitchen @ 10.6 CFM (5 L/S)	categories.	DESI
TAL	Other Habitable Rooms @ 10.6 CFM (5 L/S)	Date: / /	
5	Total Ventilation Capacity (TVC)	Signature:	

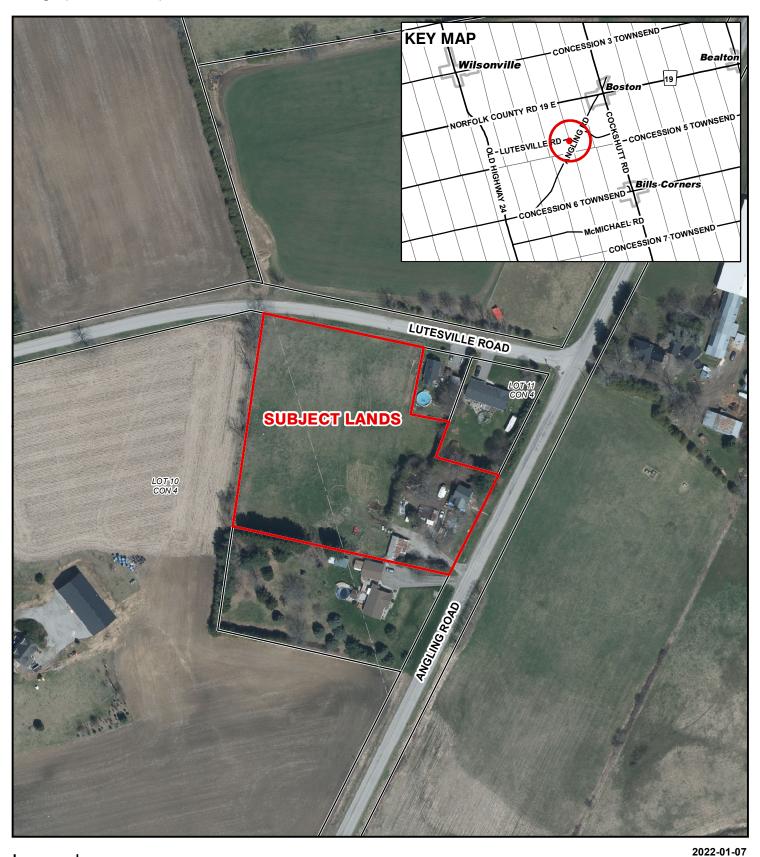
Conversion Note: 1 L/S = 2.118 CFM



INFT FRONT Floor 16.6 Fts BedRoom

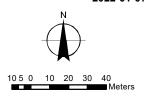
CONTEXT MAP

Geographic Township of TOWNSEND



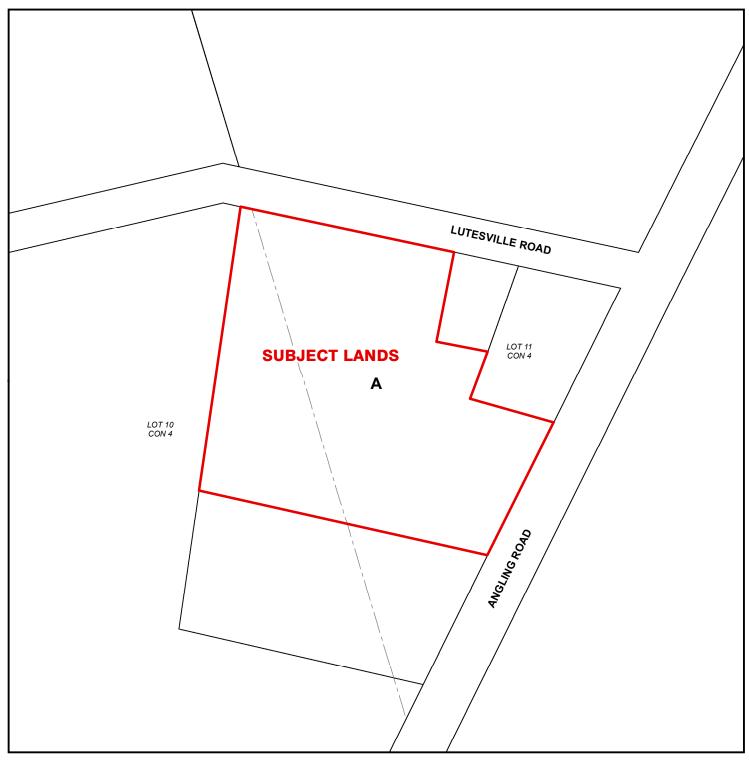
Legend





MAP B ZONING BY-LAW MAP

Geographic Township of TOWNSEND



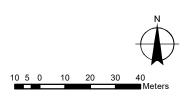
2022-01-07



ZONING BY-LAW 1-Z-2014

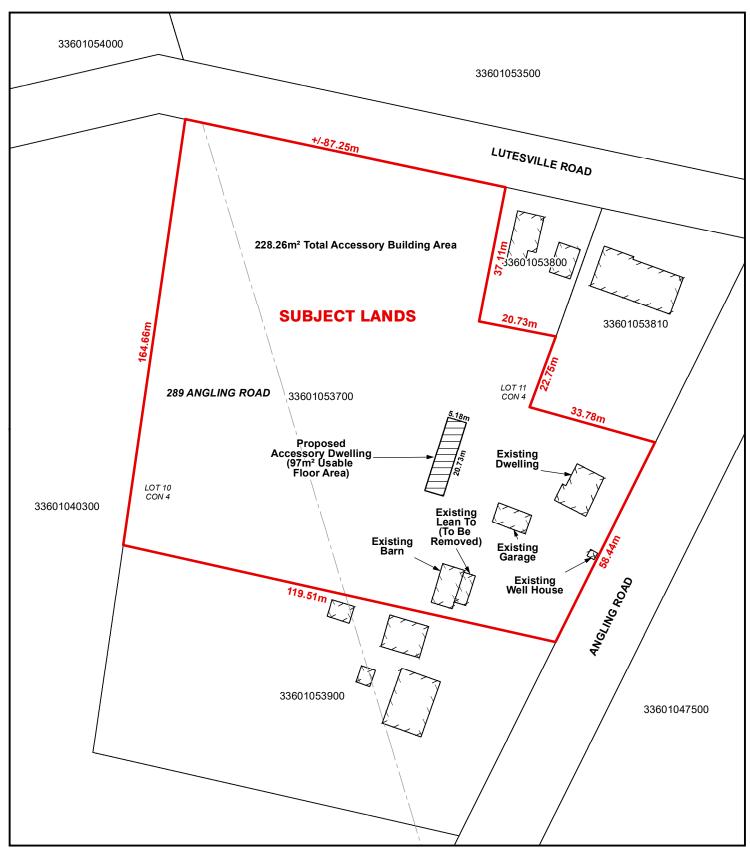
(H) - Holding

A - Agricultural Zone

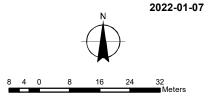


CONCEPTUAL PLAN

Geographic Township of TOWNSEND







CONCEPTUAL PLAN

Geographic Township of TOWNSEND

