



Hamilton

**COMMITTEE OF ADJUSTMENT**

City Hall, 5<sup>th</sup> floor, 71 Main Street West, Hamilton, ON L8P 4Y5

Telephone (905) 546-2424, ext. 4221, 3935

E-mail: [cofa@hamilton.ca](mailto:cofa@hamilton.ca)

**NOTICE OF PUBLIC HEARING**  
**Minor Variance**

**You are receiving this notice because you are either:**

- Assessed owner of a property located within 60 metres of the subject property
- Applicant/agent on file, or
- Person likely to be interested in this application

<b>APPLICATION NO.:</b>	<b>HM/A-22:128</b>	<b>SUBJECT PROPERTY:</b>	625 UPPER HORNING RD HAMILTON
<b>ZONE:</b>	“D/S-596” (Urban Protected Residential – One and Two Family Dwellings, etc.)	<b>ZONING BY-LAW:</b>	Zoning By-law 6593, as Amended 87-09

**APPLICANTS:** Agent Ken Bekendam  
**Owner 1519751 Ontario Inc.**

The following variances are requested:

1. One (1) parking space shall have minimum dimensions of 2.5 metres in width and 6.0 metres in length, instead of the minimum required dimensions of 2.7 metres in width and 6.0 metres in length.
2. The front yard landscaped area shall be a minimum of 43% the gross area of the front yard instead of the minimum 50.0% required front yard landscaped area

**PURPOSE & EFFECT:** To permit the conversion of the existing single family dwelling to contain a maximum of one Secondary Dwelling Unit (i.e. a basement apartment), notwithstanding that:

**Notes:**

1. Please note that detailed elevation drawings were not included in the application. From the materials provided it does not appear that exterior alterations to the existing building are being proposed. Please note that additional variances may be required if alterations to the exterior of the existing building are proposed and compliance with Hamilton Zoning By-law no. 6593 is not possible.
2. Please note that Section 19(1)(xv) indicates that any separate entrance and exist to the Secondary Dwelling Unit shall be oriented toward the interior Side Lot Line or Rear Lot Line. It appears that the entrance and exit to the Secondary Dwelling Unit is from a shared entrance on the interior of the building, however, detailed elevation drawings were not included in the

## HM/A-22:128

application to confirm compliance. Additional variances may be required if compliance with Section 19(1)(xv) is not possible.

3. A building permit is required for the conversion of the existing single family dwelling into a two family dwelling. Be advised that Ontario Building Code regulations may require specific setback and construction types.

**This Notice must be posted by the owner of any land which contains seven or more residential units so that it is visible to all residents.**

This application will be heard by the Committee as shown below:

<b>DATE:</b>	<b>Thursday, May 26, 2022</b>
<b>TIME:</b>	<b>1:35 p.m.</b>
<b>PLACE:</b>	<b>Via video link or call in (see attached sheet for details)</b>
	<b>To be streamed (viewing only) at</b> <a href="http://www.hamilton.ca/committeefadjustment">www.hamilton.ca/committeefadjustment</a>

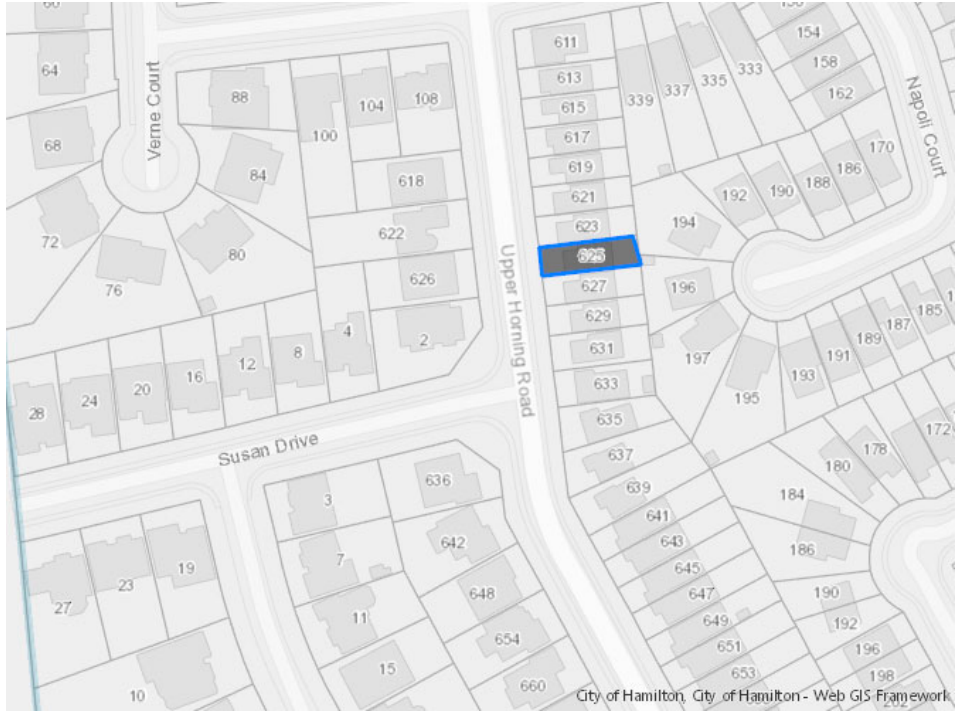
For more information on this matter, including access to drawings illustrating this request and other information submitted:

- Visit [www.hamilton.ca/committeefadjustment](http://www.hamilton.ca/committeefadjustment)
- Email Committee of Adjustment staff at [cofa@hamilton.ca](mailto:cofa@hamilton.ca)
- Call 905-546-CITY (2489) or 905-546-2424 extension 4221, 4130, or 3935

## PUBLIC INPUT

**Written:** If you would like to submit written comments to the Committee of Adjustment you may do so via email or hardcopy. Please see attached page for complete instructions, including deadlines for submitting to be seen by the Committee.

**Orally:** If you would like to speak to this item at the hearing you may do so via video link or by calling in. Please see attached page for complete instructions, including deadlines for registering to participate.



**Subject Lands**

DATED: May 10, 2022

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Jamila Sheffield,  
Secretary-Treasurer  
Committee of Adjustment

Information respecting this application is being collected under the authority of the Planning Act, R.S.O., 1990, c. P. 13. All comments and opinions submitted to the City of Hamilton on this matter, including the name, address, and contact information of persons submitting comments and/or opinions, will become part of the public record and will be made available to the Applicant and the general public, and may include posting electronic versions.



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## COMMITTEE OF ADJUSTMENT

City Hall, 5<sup>th</sup> floor, 71 Main Street West, Hamilton, ON L8P 4Y5

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## PARTICIPATION PROCEDURES

### Written Submissions

Members of the public who would like to participate in a Committee of Adjustment meeting are able to provide comments in writing or via email in advance of the meeting. Comments can be submitted by emailing [cofa@hamilton.ca](mailto:cofa@hamilton.ca) or by mailing the Committee of Adjustment, City of Hamilton, 71 Main Street West, 5th Floor, Hamilton, Ontario, L8P 4Y5. **Comments must be received by noon two days before the Hearing.**

Comments can also be placed in the drop box which is located at the back of the 1st Floor of City Hall, 71 Main Street West. All comments received by noon two business days before the meeting will be forwarded to the Committee members.

Comments are available two days prior to the Hearing and are available on our website: [www.hamilton.ca/committeefadjustment](http://www.hamilton.ca/committeefadjustment)

### Oral Submissions During the Virtual Meeting

Members of the public are also able to provide oral comments regarding Committee of Adjustment Hearing items by participating through Webex via computer or phone. Participation in this format requires pre-registration in advance. **Interested members of the public must register by noon the day before the hearing.**

To register to participate by Webex either via computer or phone, please contact Committee of Adjustment staff by email [cofa@hamilton.ca](mailto:cofa@hamilton.ca) or by phone at 905-546-2424 ext. 4221. The following information is required to register: Committee of Adjustment file number that you wish to speak to, the hearing date, name and address of the person wishing to speak, if they will be connecting via phone or video, and if applicable the phone number they will be using to call in. A separate registration for each person wishing to speak is required. Upon registering for a meeting, members of the public will be emailed a link for the Webex meeting the Wednesday afternoon before the hearing. The link must not be shared with others as it is unique to the registrant.

All members of the public who register will be contacted by Committee Staff to confirm details of the registration prior to the Hearing and provide an overview of the public participation process.

We hope this is of assistance and if you need clarification or have any questions, please email [cofa@hamilton.ca](mailto:cofa@hamilton.ca) or by phone at 905-546-2424 ext. 4221.

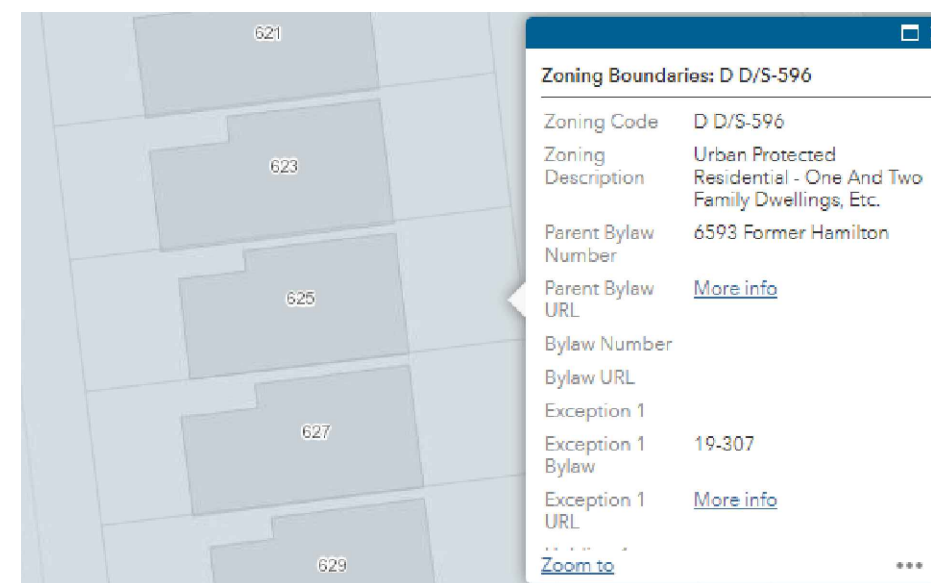
Please note: Webex (video) participation requires either a compatible computer or smartphone and an application (app/program) must be downloaded by the interested party in order to participate. It is the interested party's responsibility to ensure that their device is compatible and operating correctly prior to the Hearing.

# 625 UPPER HORNING ROAD, HAMILTON, ON

## SECONDARY DWELLING UNIT



EXISTING BUILDING IMAGE



ZONING MAP



AERIAL MAP



**GENERAL NOTES:**

- ALL CONSTRUCTION TO COMPLY WITH THE CURRENT ONTARIO BUILDING CODE (REVISED 2012 OBC – DEC 19, 2017).  
 - ALL DIMENSIONS ARE MEASURED TO ROUGH FRAMING, MASONRY, OR CONCRETE SURFACES U.O.N.  
 - ALL DOORS AND WINDOW OPENINGS ARE MEASURED TO ROUGH FRAMING OR MASONRY OPENING.  
 - CONTRACTOR SHALL VERIFY WINDOW OPENINGS WITH THE MANUFACTURER PRIOR TO WORK.  
 - READ ARCHITECTURAL DRAWINGS IN CONJUNCTION WITH ELECTRICAL PLANS SUPPLIED BY LICENSED ELECTRICAL CONTRACTOR.  
 - ALL DIMENSIONS MUST BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS BEFORE COMMENCING FABRICATION.  
 - THE CONTRACTOR SHALL PROPERLY SUPERVISE THE WORK AND ENSURE THAT THE WORK IS INSTALLED TO THE CORRECT LINES AND LEVELS, THAT THE CONNECTIONS AND DETAILS CONFORM TO THE DRAWING DETAILS AND SHALL COORDINATE THE INTERFACING OF ALL WORK WITH ALL SUB-TRADES.  
 - PROVIDE POSITIVE FRONT YARD SLOPE TO MUNICIPAL SEWER FOR WATER RUN-OFF.  
 - CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL EXISTING UNDERGROUND AND ABOVE UTILITIES AND SERVICES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT.  
 - THE CONTRACTOR IS NOT RESPONSIBLE FOR ACCURACY OF SURVEY DRAWING.  
 - EXISTING DRAINAGE PATTERNS TO REMAIN. ANY NEW SUMP PUMP INSTALLATIONS TO DISCHARGE IN REAR YARD.  
 BUILDING FROM THESE SHALL PROCEED ONLY WHEN MARKED "ISSUED FOR CONSTRUCTION."  
 EXISTING STRUCTURE NOTE:  
 - OWNER AND CONTRACTOR ARE FULLY RESPONSIBLE FOR VERIFYING ALL EXISTING GENERAL AND STRUCTURAL CONDITIONS PRIOR TO ANY WORK. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO SUITE ADDITIONS INC. PRIOR TO ANY WORK.  
 - OWNER AND CONTRACTOR IS FULLY RESPONSIBLE FOR SHORING EXISTING STRUCTURE PRIOR TO ANY WORK IF REQUIRED.

**CODE REFERENCES AND SPECIFICATIONS**

**1. FIRE PROTECTION MEASURES**

ALL FIRE PROTECTION MEASURES MUST COMPLY WITH OBC 9.10. (U.O.N.)

**2. CEILING HEIGHTS**

CEILING HEIGHTS SHALL COMPLY WITH OBC 9.5.3.1. AND PART 11 – C102 OF TABLE 11.5.1.1.C.

**PART 9:**

BASEMENT SPACE - 2 100 mm (6'-10 3/4") over at least 75% of the basement area except that under beams and ducts the clearance is permitted to be reduced to 1 950 mm (6'-4 7/8")

**PART 11 (COMPLIANCE ALTERNATIVE):**

In a house,  
 (a) minimum room height shall not be less than 1 950 mm (6'-4 7/8") over the required floor area and in any location that would normally be used as a means of egress, or  
 (b) minimum room height shall not be less than 2 030 mm (6'-8") over at least 50% of the required floor area, provided that any part of the floor having a clear height of less than 1 400 mm (4'-7 1/8") shall not be considered in computing the required floor area.

**3. EGRESS FROM DWELLING UNIT**

EGRESS FROM DWELLING UNIT SHALL COMPLY WITH OBC 9.9.9 AND PART 11 COMPLIANCE – C136 OF TABLE 11.5.1.1.C.

**PART 9:**

**9.9.9.1. Travel Limit to Exits or Egress Doors**

(1) Except as provided in Sentences (2) and (3), every dwelling unit containing more than 1 storey shall have exits or egress doors located so that it shall not be necessary to travel up or down more than 1 storey to reach a level served by,  
 (a) an egress door to a public corridor, enclosed exit stair or exterior passageway, or  
 (b) an exit doorway not more than 1 500 mm above adjacent ground level.  
 (2) Where a dwelling unit is not located above or below another suite, the travel limit from a floor level in the dwelling unit to an exit or egress door is permitted to exceed 1 storey where that floor level is served by an openable window or door,  
 (a) providing an unobstructed opening of not less than 1 000 mm in height and 550 mm in width, and  
 (b) located so that the sill is not more than,  
 (i) 1 000 mm above the floor, and  
 (ii) 7 m above adjacent ground level.  
 (3) The travel limit from a floor level in a dwelling unit to an exit or egress door is permitted to exceed 1 storey where that floor level has direct access to a balcony.

**9.9.9.2. Two Separate Exits**

(1) Except as provided in Sentence 9.9.7.3.(1), where an egress door from a dwelling unit opens onto a public corridor or exterior passageway it shall be possible from the location where the egress door opens onto the corridor or exterior passageway to go in opposite directions to two separate exits unless the dwelling unit has a second and separate means of egress.

**9.9.9.3. Shared Egress Facilities**

(1) A dwelling unit shall be provided with a second and separate means of egress where an egress door from the dwelling unit opens onto,  
 (a) an exit stairway serving more than one suite,  
 (b) a public corridor,  
 (i) serving more than one suite, and  
 (ii) served by a single exit,  
 (c) an exterior passageway,  
 (i) serving more than one suite,  
 (ii) served by a single exit stairway or ramp, and  
 (iii) more than 1.5 m above adjacent ground level, or  
 (d) a balcony,  
 (i) serving more than one suite,  
 (ii) served by a single exit stairway or ramp, and  
 (iii) more than 1.5 m above adjacent ground level.

**PART 11 (COMPLIANCE ALTERNATIVE):**

In a house, exit requirements are acceptable if at least one of the following conditions exists:  
 (a) a door, including a sliding door, that opens directly to the exterior from a dwelling unit, serves only that dwelling unit and has reasonable access to ground level, and the dwelling units are equipped with smoke alarms installed in conformance with Subsection 9.10.19.,  
 (b) an exit that is accessible to more than one dwelling unit and provides the only means of egress from each dwelling unit, provided that the means of egress is separated from the remainder of the building and common areas by a fire separation having a 30 min fire-resistance rating and provided further that the required access to exit from any dwelling unit cannot be through another dwelling unit, service room or other occupancy, and both dwelling units and common areas are provided with smoke alarms that are installed in conformance with Subsection 9.10.19. and are interconnected, or  
 (c) access to an exit from one dwelling unit which leads through another dwelling unit where,  
 (i) an additional means of escape is provided through a window that conforms to the following:  
 (A) the sill height is not more than 1 000 mm above or below adjacent ground level,  
 (B) the window can be opened from the inside without the use of tools,  
 (C) the window has an individual unobstructed open portion having a minimum area of 0,38 m<sup>2</sup> with no dimension less than 460 mm  
 (D) the sill height does not exceed 900 mm above the floor or fixed steps,  
 (E) where the window opens into a window well, a clearance of not less than 1 000 mm shall be provided in front of the window, and  
 (F) smoke alarms are installed in every dwelling unit and in common areas in conformance with Subsection 9.10.19. and are interconnected,  
 (ii) an additional means of escape is provided through a window that conforms to the following:  
 (A) the window is a casement window not less than 1 060 mm high, 560 mm wide, with a sill height not more than 900 mm above the inside floor,  
 (B) the sill height of the window is not more than 5 m above adjacent ground level, and  
 (C) smoke alarms are installed in every dwelling unit and in common areas in conformance with Subsection 9.10.19. and are interconnected, or (iii) the building is sprinklered and the dwelling units are equipped with smoke alarms installed in conformance with Subsection 9.10.19.

**4. EGRESS FROM BEDROOMS**

EGRESS FROM BEDROOMS SHALL COMPLY WITH OBC 9.9.10.1

**PART 9:**

(1) Except where a door on the same floor level as the bedroom provides direct access to the exterior, every floor level containing a bedroom in a suite shall be provided with at least one outside window that,  
 (a) is openable from the inside without the use of tools,  
 (b) provides an individual, unobstructed open portion having a minimum area of 0.35 m<sup>2</sup> with no dimension less than 380 mm, and  
 (c) maintains the required opening described in Clause (b) without the need for additional support.  
 (2) Except for basement areas, the window required in Sentence (1) shall have a maximum sill height of 1000 mm above the floor.  
 (3) When sliding windows are used, the minimum dimension described in Sentence (1) shall apply to the openable portion of the window.  
 (4) Where the sleeping area within a live/work unit is on a mezzanine with no obstructions more than 1 070 mm above the floor, the window required in Sentence (1) may be provided on the main level of the live/work unit provided the mezzanine is not more than 25% of the area of the live/work unit or 20 m<sup>2</sup>, whichever is less, and an unobstructed direct path of travel is provided from the mezzanine to this window.  
 (5) Where a window required in Sentence (1) opens into a window well, a clearance of not less than 550 mm shall be provided in front of the window.  
 (6) Where the sash of a window referred to in Sentence (5) swings towards the window well, the operation of the sash shall not reduce the clearance in a manner that would restrict escape in an emergency.  
 (7) Where a protective enclosure is installed over the window well referred to in Sentence (5), such enclosure shall be openable from the inside without the use of keys, tools or special knowledge of the opening mechanism.

**5. SMOKE ALARMS**

SMOKE ALARMS SHALL COMPLY WITH OBC 9.10.19. AND PART 11 COMPLIANCE – C175 OF TABLE 11.5.1.1.C.

**PART 9:**

**9.10.19.1. Required Smoke Alarms**

(2) Smoke alarms conforming to CAN/ULC-S531, "Smoke Alarms", shall be installed in each dwelling unit and in each sleeping room not within a dwelling unit.  
 (3) Smoke alarms required in Sentence (1) shall have a visual signalling component conforming to the requirements in 18.5.3. (Light, Color and Pulse Characteristics) of NFPA 72, "National Fire Alarm and Signaling Code".  
 (4) The visual signalling component required in Sentence (2) need not, (a) be integrated with the smoke alarm provided it is interconnected to it, (b) be on battery backup, or (c) have synchronized flash rates, when installed in a dwelling unit.  
 (5) The luminous intensity for visual signalling components required in Sentence (2) that are installed in sleeping rooms shall be a minimum of 175 cd.  
 (6) Smoke alarms required in Sentence (1) shall be installed on or near the ceiling.  
**9.10.19.3. Location of Smoke Alarms**  
 (1) Within dwelling units, sufficient smoke alarms shall be installed so that,  
 (a) there is at least one smoke alarm installed on each storey, including basements, and  
 (b) on any storey of a dwelling unit containing sleeping rooms, a smoke alarm is installed,  
 (i) in each sleeping room, and  
 (ii) in a location between the sleeping rooms and the remainder of the storey, and if the sleeping rooms are served by a hallway, the smoke alarm shall be located in the hallway.  
 (2) Within a house that contains an interior shared means of egress or common area, a smoke alarm shall be installed in each shared means of egress and common area.  
 (3) A smoke alarm required in Sentences (1) and (2) shall be installed in conformance with CAN/ULC-S553, "Installation of Smoke Alarms".  
**9.10.19.4. Power Supply**  
 (1) Except as provided in Sentences (2) and (3), smoke alarms required in Sentences 9.10.19.1.(1) and 9.10.19.3.(2) shall,  
 (a) be installed with permanent connections to an electrical circuit,  
 (b) have no disconnect switch between the overcurrent device and the smoke alarm, and  
 (c) in case the regular power supply to the smoke alarm is interrupted, be provided with a battery as an alternative power source that can continue to provide power to the smoke alarm for a period of not less than 7 days in the normal condition, followed by 4 min of alarm.  
**9.10.19.5. Interconnection of Smoke Alarms**  
 (1) Where more than one smoke alarm is required in a dwelling unit, the smoke alarms shall be wired so that the activation of one alarm will cause all alarms within the dwelling unit to sound.

**PART 11 (COMPLIANCE ALTERNATIVE):**

Smoke alarms may be battery operated.

**LEAD DESIGNER & CONSULTANT**  
 Ken Bekendam B.A. BUSCOM, L.T.  
 kenbekendam@gmail.com  
 office: 855.546.4467 cell: 905.961.0647

Legal Second Suites architectural and engineering service is owned by and operated in affiliation with King Homes Inc.



NORTH POSITION:

ADDRESS:

**625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT:

**CONSTRUCTION NOTE 1 OF 2**

PROJECT:

**SECONDARY DWELLING UNIT**

DATE:

**MARCH 2022**

SCALE:

**N/A**

SHEET#:

**A 6.01**

**6. CARBON MONOXIDE ALARMS**

CARBON MONOXIDE ALARMS SHALL COMPLY WITH OBC 9.33.4. AND PART 11 COMPLIANCE – C197 OF TABLE 11.5.1.1.C.

**PART 9:****9.33.4.1. Application**

- (1) This Subsection applies to every building that,  
 (a) contains a residential occupancy, and  
 (b) contains a fuel-burning appliance or a storage garage.

**9.33.4.2. Location of Carbon Monoxide Alarms**

- (1) Where a fuel-burning appliance is installed in a suite of residential occupancy, a carbon monoxide alarm shall be installed adjacent to each sleeping area in the suite.  
 (2) Where a fuel-burning appliance is installed in a service room that is not in a suite of residential occupancy, a carbon monoxide alarm shall be installed,  
 (a) adjacent to each sleeping area in every suite of residential occupancy that is adjacent to the service room, and  
 (b) in the service room.  
 (3) Where a storage garage is located in a building containing a residential occupancy, a carbon monoxide alarm shall be installed adjacent to each sleeping area in every suite of residential occupancy that is adjacent to the storage garage.  
 (4) Where a storage garage serves only the dwelling unit to which it is attached or built in, a carbon monoxide alarm shall be installed adjacent to each sleeping area in the dwelling unit.  
 (5) A carbon monoxide alarm shall be mechanically fixed,  
 (a) at the manufacturer's recommended height, or  
 (b) in the absence of specific instructions, on or near the ceiling.  
**9.33.4.3. Installation and Conformance to Standards**  
 (1) The carbon monoxide alarm required by Article 9.33.4.2. shall,  
 (a) except as permitted in Sentence (2), be permanently connected to an electrical circuit and shall have no disconnect switch between the overcurrent device and the carbon monoxide alarm,  
 (b) be wired so that its activation will activate all carbon monoxide alarms within the suite, where located within a suite of residential occupancy,  
 (c) be equipped with an alarm that is audible within bedrooms when the intervening doors are closed, where located adjacent to a sleeping area, and  
 (d) conform to,  
 (i) CAN/CSA-6.19, "Residential Carbon Monoxide Alarming Devices", or  
 (ii) UL 2034, "Single and Multiple Station Carbon Monoxide Alarms".  
 (2) Where the building is not supplied with electrical power, carbon monoxide alarms are permitted to be battery operated.

**PART 11 (COMPLIANCE ALTERNATIVE):**

Carbon monoxide alarms may be battery operated or plugged into an electrical outlet.

**7. FIRE-RESISTANCE RATINGS FOR WALLS, COLUMNS AND ARCHES**

FIRE-RESISTANCE RATINGS FOR WALLS, COLUMNS AND ARCHES SHALL COMPLY WITH OBC 9.10.8.3 AND PART 11 COMPLIANCE - C147 OF TABLE 11.5.1.1.C.

**PART 9:**

- (1) Except as otherwise provided in this Subsection, all load bearing walls, columns and arches in the storey immediately below a floor or roof assembly shall have a fire-resistance rating of not less than that required for the supported floor or roof assembly.

**PART 11 (COMPLIANCE ALTERNATIVE):**

- (a) Except as provided in (b) and (c), 30 min rating is acceptable.  
 (b) In a house, 15 min horizontal fire separation is acceptable where,  
 (i) smoke alarms are installed in every dwelling unit and in common areas in conformance with Subsection 9.10.19., and  
 (ii) smoke alarms are interconnected.  
 (c) In a house, the fire-resistance rating of the fire separation is waived where the building is sprinklered.

**8. SEPARATION OF SERVICE ROOMS**

SEPARATION OF SERVICE ROOMS SHALL COMPLY WITH OBC 9.10.10.4

**PART 9:**

9.10.10.1. Appliances and Equipment to be Located in a Service Room

- (1) Except as provided in Sentences (2) and (3) and Article 9.10.10.5., fuel-fired appliances shall be located in a service room separated from the remainder of the building by a fire separation having not less than a 1 h fire-resistance rating.  
 (2) Except as required in the appliance installation standards referenced in Sentences 6.2.1.4.(1) and 9.33.1.2.(1), fuel fired spaceheating appliances, space-cooling appliances and service water heaters need not be separated from the remainder of the building as required in Sentence (1) where the equipment serves,  
 (a) not more than one room or suite,  
 (b) a house, or  
 (c) a building, other than a house, with a building area of not more than 400 m<sup>2</sup> and a building height of not more than 2 storeys.  
 (3) Sentence (1) does not apply to fireplaces and cooking appliances.

**9. SEPARATION OF RESIDENTIAL SUITES**

SEPARATION OF RESIDENTIAL SUITES SHALL COMPLY WITH OBC 9.10.9.14 AND PART 11 COMPLIANCE - C152 OF TABLE 11.5.1.1.C.

**PART 9:**

- (1) Except as provided in Sentences (2) and (3) and Article 9.10.21.2., suites in residential occupancies shall be separated from adjacent rooms and suites by a fire separation having a fire-resistance rating of not less than 45 min.  
 (2) Sleeping rooms in boarding, lodging or rooming houses where sleeping accommodation is provided for not more than 8 boarders or lodgers shall be separated from the remainder of the floor area by a fire separation having a fire-resistance rating of not less than 30 min where the sleeping rooms form part of the proprietor's residence and do not contain cooking facilities.  
 (3) Except as provided in Sentences (4) and (5), dwelling units that contain 2 or more storeys including basements shall be separated from the remainder of the building by a fire separation having a fire-resistance rating of not less than 1 h.  
 (4) Except as provided in Sentence (5), dwelling units in a house shall be separated from each other and common areas by a fire separation having a fire-resistance rating of not less than 45 min.  
 (5) The fire-resistance rating of the fire separation required in Sentence (4) is permitted to be waived where the house is sprinklered.

**PART 11 (COMPLIANCE ALTERNATIVE):**

- (a) Except as provided in (b) and (c), 30 min fire separation is acceptable.  
 (b) In a house, 15 min horizontal fire separation is acceptable where,  
 (i) smoke alarms are installed in every dwelling unit and in common areas in conformance with Subsection 9.10.19., and  
 (ii) smoke alarms are interconnected.  
 (c) In a house, the fire-resistance rating of the fire separation is waived where the building is sprinklered.

**10. CLOSURES (DOORS):**

CLOSURES SHALL COMPLY WITH OBC 9.10.13.1 AND PART 11 COMPLIANCE - C155 OF TABLE 11.5.1.1.C.

**PART 9:**

- (1) Except as provided in Article 9.10.13.2., openings in required fire separations shall be protected with a closure conforming to Table 9.10.13.1. and shall be installed in conformance with NFPA 80, Fire Doors and Other Opening Protectives, unless otherwise specified in this Part.

**PART 11 (COMPLIANCE ALTERNATIVE):**

Existing functional closures are acceptable subject to C.A.'s C8 and C156.

- (a) Existing functional and sound doors in existing buildings that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,  
 (b) all existing functional and sound hollow metal or kalamein doors which carry existing 1.5 h labels are acceptable in lieu of current 1.5 h labels and may contain wired glass panels not exceeding 0.0645 m<sup>2</sup> at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and  
 (c) every fire door, window assembly or glass block used as a closure in a required fire separation shall be installed in conformance with good engineering practice. In a house, existing unlabelled doors at least 45 mm solid core wood or metal clad are acceptable. For existing closures, ratings of 20 min will not be required where the entire floor area is sprinklered.

**11. LAUNDRY FIXTURES**

LAUNDRY FIXTURES SHALL COMPLY WITH OBC 9.31.4.2.

**PART 9:**

- (1) Laundry facilities or a space for laundry facilities shall be provided in every dwelling unit or grouped elsewhere in the building in a location conveniently accessible to occupants of every dwelling unit.

**12. NATURAL VENTILATION**

NATURAL VENTILATION SHALL COMPLY WITH OBC 9.32.2.1 AND PART 11 COMPLIANCE - C194 OF TABLE 11.5.1.1.C.

**PART 9:**

- (1) The unobstructed openable ventilation area to the outdoors for rooms and spaces in a residential occupancy ventilated by natural means shall conform to Table 9.32.2.1.

**PART 11 (COMPLIANCE ALTERNATIVE):**

In a house, rooms or spaces to be ventilated by natural means in accordance with Subsection 9.32.2. or by providing adequate mechanical ventilation.

**13. ELECTRICAL FACILITIES**

ELECTRICAL FACILITIES SHALL COMPLY WITH OBC 9.34.

**14. INTERCONNECTION OF SYSTEMS**

INTERCONNECTION OF SYSTEMS SHALL COMPLY WITH OBC 6.2.3.9 AND PART 11 COMPLIANCE – C91 OF TABLE 11.5.1.1.C.

**PART 6:**

- (1) In a residential occupancy, air from one suite shall not be circulated to any other suite or to a public corridor or public stairway.

**PART 11 (COMPLIANCE ALTERNATIVE):**

In a building containing not more than four dwelling units or residential suites, the existing heating or air-conditioning system may be altered to serve more than one dwelling unit or suite, provided smoke alarms are installed in each dwelling unit or suite and provided a smoke detector is installed in the supply or return air duct system serving the entire building which would turn off the fuel supply and electrical power to the heating system upon activation of such detector.

**15. PENETRATIONS**

PIPING, TUBING, DUCTS, CHIMNEYS, WIRING, CONDUIT, ELECTRICAL OUTLET BOXES AND OTHER SIMILAR SERVICE EQUIPMENT THAT PENETRATE A FIRE SEPARATION MUST BE NON COMBUSTIBLE AND FIRE STOPPED.

**16. PLUMBING**

ALL PLUMBING MUST CONFORM TO O.REG.332/12, DIV. B PART 7 OF THE BUILDING CODE

**17. HANDRAILS AND GUARDRAILS**

INSTALL HANDRAILS AND GUARDRAILS IN ACCORDANCE WITH 9.8.7. AND 9.8.8 OF THE BUILDING CODE RESPECTIVELY

LEAD DESIGNER & CONSULTANT

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 kenbekendam@gmail.com  
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KING  
 HOMES INC.

NORTH POSITION:

ADDRESS:

**625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT:

**CONSTRUCTION NOTE 2 OF 2**

PROJECT:

**SECONDARY DWELLING UNIT**

DATE:

**MARCH 2022**

SCALE:

**N/A**

SHEET#:

**A 6.03**

**SITE INFORMATION & STATISTICS**

ADDRESS	625 UPPER HORNING RD, HAMILTON ON.
ZONING TYPE	D D/S-596
LOT AREA	3000 SQ.FT (278.70 SQ.M)
LOT FRONTAGE	30.0' (9.14 m)

**GENERAL NOTES:**

1. ALL CONSTRUCTION TO COMPLY WITH THE REVISED ONTARIO BUILDING CODE 2012.
2. ALL DIMENSIONS ARE MEASURED TO ROUGH FRAMING OR TO MASONRY SURFACES UNLESS OTHERWISE NOTED.
3. ALL DOORS AND WINDOW OPENINGS ARE MEASURED TO ROUGH FRAMING OR MASONRY OPENINGS.
4. CONTRACTOR IS TO VERIFY WINDOW OPENINGS WITH WINDOW MANUFACTURER PRIOR TO COMMENCING WORK.
5. READ ARCHITECTURAL DRAWINGS IN CONJUNCTION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
6. ELEVATION REFERENCES ARE BASED ON 100'-0" = 131.70m GEODETIC ELEVATIONS AS NOTED ON A1 SITE PLAN.
7. ALL DIMENSIONS MUST BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS AND THE FIELD CONDITIONS BEFORE COMMENCING FABRICATION. AND INCONSISTENCIES ARE TO BE REPORTED TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL PROPERLY SUPERVISE THE WORK AND ENSURE THAT THE WORK IS INSTALLED TO THE CORRECT LINES AND LEVELS, THAT THE CONNECTIONS AND DETAILS CONFIRM TO THE DRAWING DETAILS AND SHALL COORDINATE THE INTERFACING OF ALL WORK WITH ALL SUB-TRADES.
9. PROVIDE POSITIVE FRONT YARD SLOPE TO MUNICIPAL SEWER FOR WATER RUN-OFF.
10. CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL EXISTING UNDERGROUND AND ABOVE UTILITIES AND SERVICES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCING NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT.
11. REFER TO LANDSCAPING PLAN FOR PLANTING CONFIRM LAYOUT WITH LANDSCAPE CONTRACTOR
12. DESIGNER NOT RESPONSIBLE FOR ACCURACY OF SURVEY DRAWING.

**EXISTING STRUCTURE NOTE:**

OWNER AND CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO ANY WORK, ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE OWNER PRIOR TO ANY WORK, OWNER AND CONTRACTOR IS FULLY RESPONSIBLE FOR SHORING EXISTING STRUCTURE PRIOR TO ANY WORK.

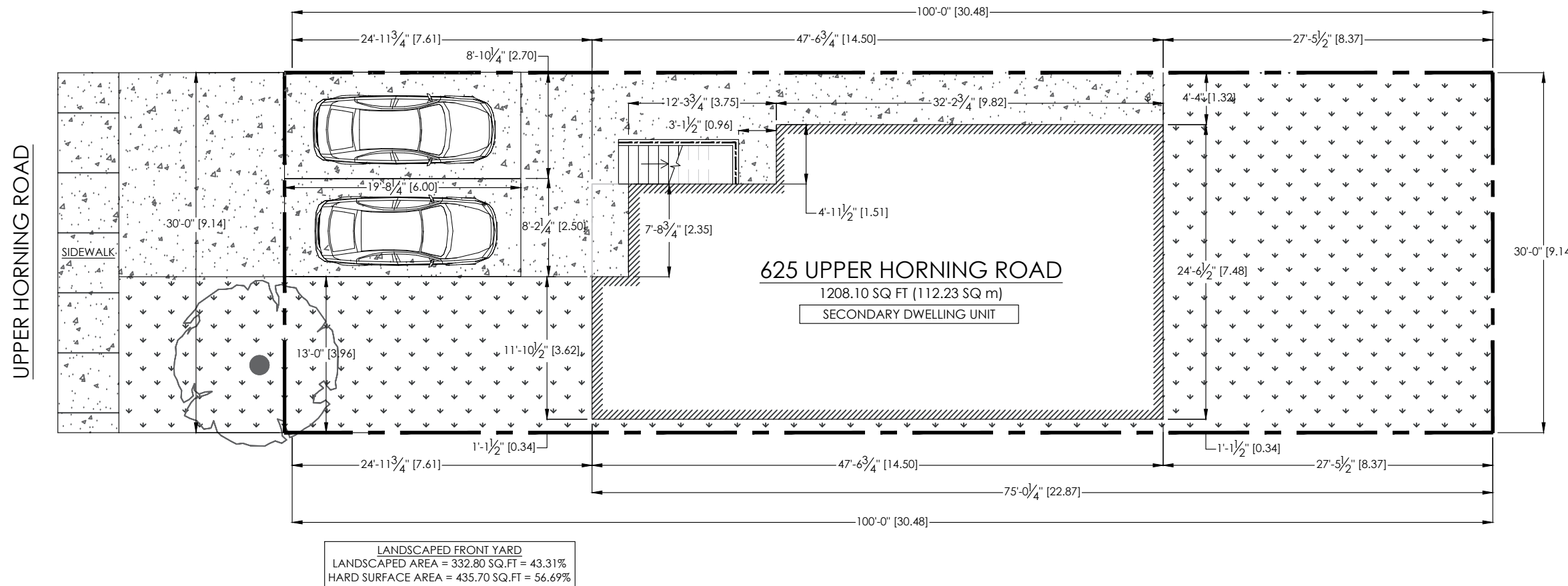
**BUILDING CODE COMPLIANCE NOTE:**

THESE DRAWINGS DO NOT REPRESENT A COMPREHENSIVE AND EXHAUSTIVE GUIDE FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE. IT IS ASSUMED THAT THE CONTRACTOR HAS REASONABLY SUFFICIENT KNOWLEDGE OF THE ONTARIO BUILDING CODE IN ORDER TO PERFORM ALL WORK AS PER THESE DRAWINGS IN SUCH A WAY THAT WILL COMPLY WITH ALL ASPECTS OF THE O.B.C. AND WILL NOT CONTRAVENE ANY OTHER APPLICABLE LAWS.

**SITE PLAN:**

BASED ON HAMILTON SITE MAPS AND MEASUREMENTS ON SITE DESIGNER ASSUMES NO RESPONSIBILITY FOR ACCURACY OF HAMILTON MAPS. THIS SITE SHALL NOT BE USED FOR ANY OTHER PURPOSES. NO WORK TO ENCROACH ONTO ADJOINING PROPERTIES

ELETRONIC STAMP



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NORTH POSITION:



ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **SITE PLAN**

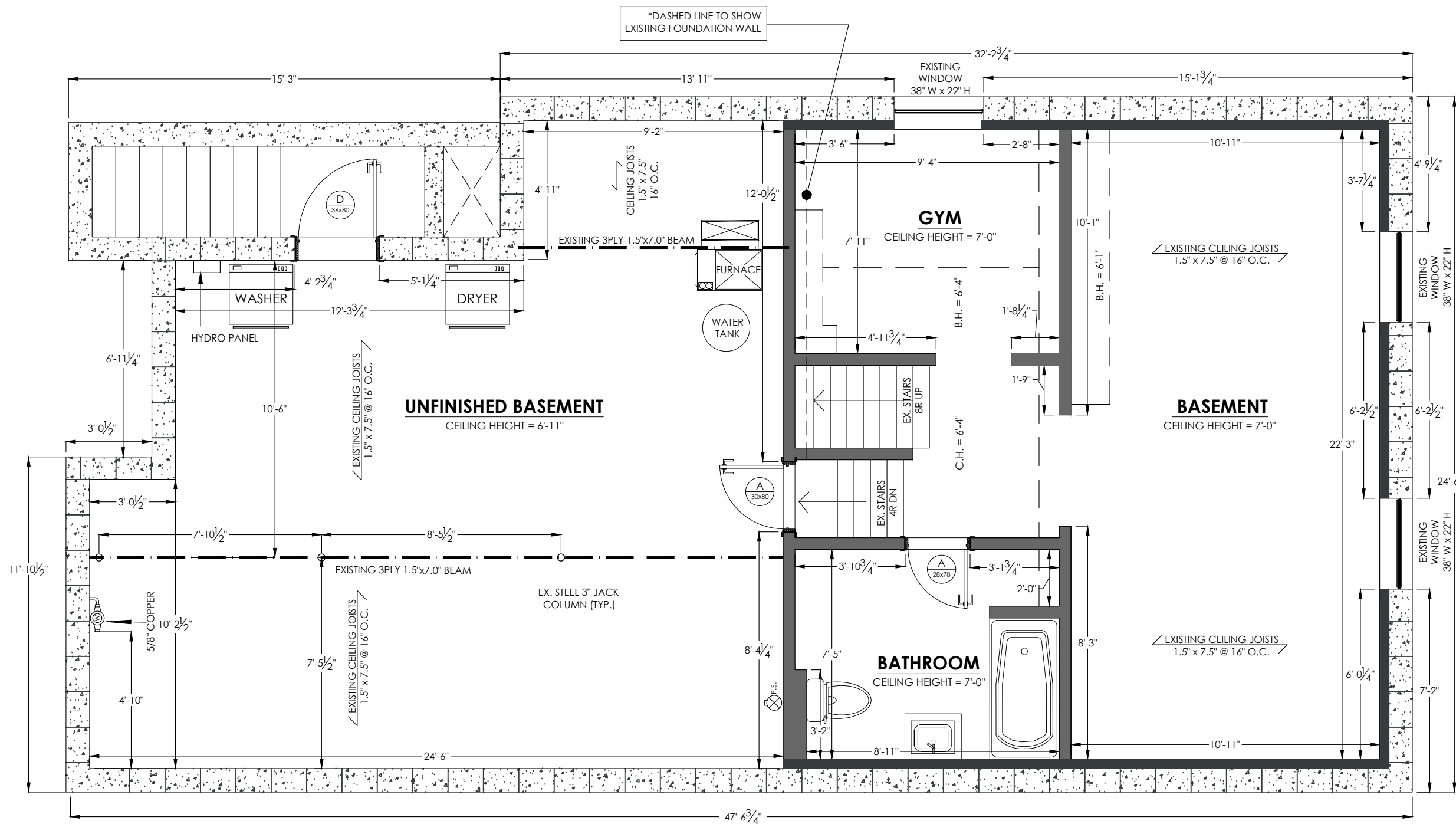
PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **3/32" = 1'**

SHEET#: **SP 1.01**



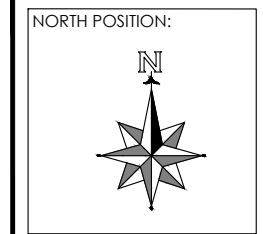


PLANS LEGEND	
<b>BATH</b>	ROOM NAME
	EXHAUST FAN
	SPECIFICATION TAG
	SMOKE ALARM
	CARBON MONOXIDE ALARM
<b>C.H. = 8'-10"</b>	CEILING HEIGHT
	PLUMBING STACK
	WATER METER
	FLOOR DRAIN
	STRUCTURAL BEAM OR WALL
	STRUCTURAL COLUMN
	FOUNDATION WALL
	EXISTING EXTERIOR WALLS
	NEW EXTERIOR WALLS
	EXISTING INTERNAL WALLS
	NEW INTERNAL WALLS
	STRUCTURAL WALLS
	WINDOWS
DOOR LEGEND	
	DOOR TYPE DOOR SIZE
A.	PANEL DOOR
B.	FIRE DOOR w/ SELF CLOSER (45 MIN)
C.	FIRE DOOR w/ SELF CLOSER (20 MIN)
D.	EXTERIOR DOOR
E.	BIFOLD CLOSET
F.	SLIDING DOOR
G.	POCKET DOOR

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ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

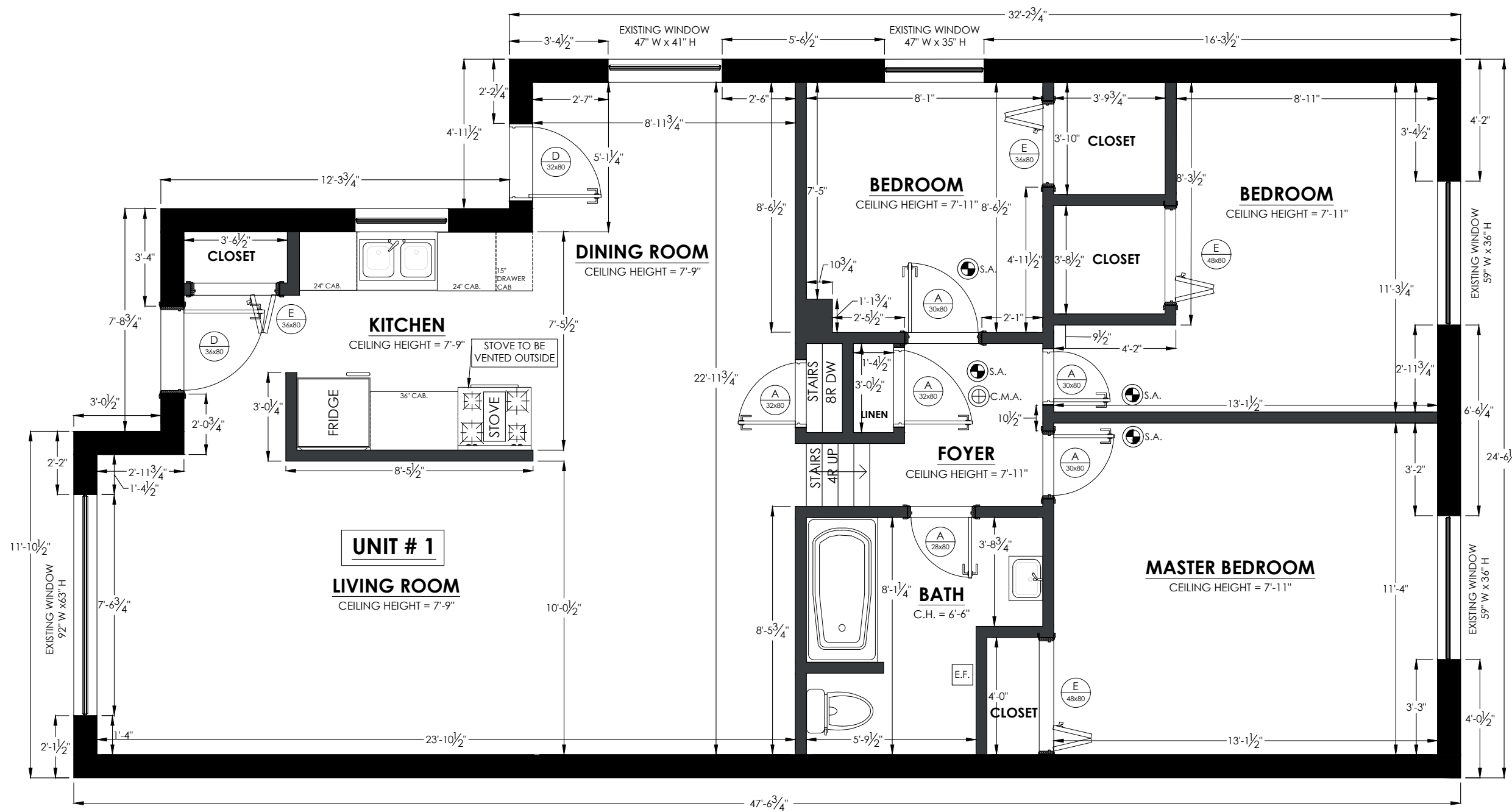
SUBJECT: **EXISTING BASEMENT**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **1/4" = 1'**

SHEET#: **A 1.01**

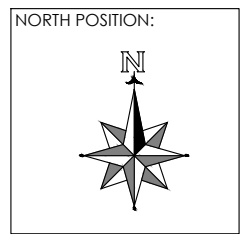


PLANS LEGEND	
	BATH
	EXHAUST FAN
	SPECIFICATION TAG
	SMOKE ALARM
	SMOKE ALARM
	CARBON MONOXIDE ALARM
	CEILING HEIGHT
	PLUMBING STACK
	WATER METER
	FLOOR DRAIN
	STRUCTURAL BEAM OR WALL
	STRUCTURAL COLUMN
	FOUNDATION WALL
	EXISTING EXTERIOR WALLS
	NEW EXTERIOR WALLS
	EXISTING EXTERIOR WALLS
	EXISTING INTERIOR WALLS
	NEW EXTERIOR WALLS
	NEW INTERIOR WALLS
	STRUCTURAL WALLS
	WINDOWS
DOOR LEGEND	
	A. PANEL DOOR DOOR TYPE DOOR SIZE
	B. FIRE DOOR w/ SELF CLOSER (45 MIN)
	C. FIRE DOOR w/ SELF CLOSER (20 MIN)
	D. EXTERIOR DOOR
	E. BIFOLD CLOSET
	F. SLIDING DOOR
	G. POCKET DOOR

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ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **EXISTING GROUND FLOOR**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **1/4" = 1'**

SHEET#: **A 1.02**

**SEPARATION OF SERVICE ROOM**

SEPARATION ROOM TO CONFORM WITH O.B.C. PART 9.10.10.3 AND 9.10.10.4 (c) AND PART 11 C153 (a). **30 MINS FRR** IS ACCEPTABLE FOR VERTICAL AND HORIZONTAL PARTITIONS. REFER TO SB3 TABLE 1 AND 2 FOR ASSEMBLY DETAILS.

**VERTICAL PARTITION (WALLS) - W4A (1HR, FRR, STC51)**

- NEW 2x4 STUD WALL SPACED 16" O.C.
- 3.5" THICK ABSORPTIVE MATERIAL
- RESILIENT METAL CHANNELS SPACED 24" O.C.
- 2 LAYERS 5/8" TYPE X GYPSUM BOARD ON CHANNEL SIDE
- 1 LAYER 5/8" TYPE X GYPSUM BOARD ON OTHER SIDE

**HORIZONTAL PARTITION (CEILING) - UNFINISHED**

- CEILING TO REMAIN UNFINISHED AND FORM PART OF THE MAIN FLOOR RESIDENTIAL SUITE.
- GYPSUM BOARD INSIDE SERVICE ROOM TO EXTEND INTO JOIST CAVITY AND BUTTED TIGHTLY AGAINST FLOOR JOISTS AND SUBFLOOR ABOVE.
- SMALL GAPS TO BE CAULKED WITH FIRE BARRIER SEALANT IN ACCORDANCE WITH CAN/ULC/S115 IMPORTANT
- ADEQUATE COMBUSTION AIR NEEDED FOR APPLIANCES

**SEPARATION OF RESIDENTIAL SUITES**

SEPARATION BETWEEN SUITES TO HAVE A FIRE RESISTANCE RATING OF **30 MINS** AS PER O.B.C. 9.10.9.14 (1), PART 11 C152 (a) AND PART 9.11.2.1 (1) - STC 50. REFER TO SB3 TABLE 1 AND 2 FOR ASSEMBLY DETAILS.

**NEW VERTICAL PARTITION (WALLS) - W4A (1HR FRR, STC51)**

- NEW 2x4 STUD WALL SPACED 16" O.C.
- 3.5" THICK ABSORPTIVE MATERIAL
- RESILIENT METAL CHANNELS SPACED 24" O.C.
- 2 LAYERS 5/8" TYPE X GYPSUM BOARD ON CHANNEL SIDE
- 1 LAYER 5/8" TYPE X GYPSUM BOARD ON OTHER SIDE

**FOR PIPE AND WIRE PENETRATIONS**

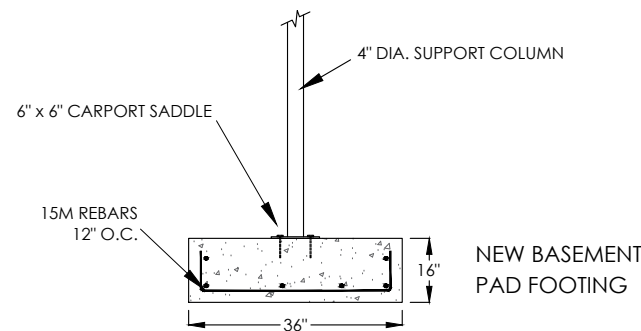
- USE FIRE RATED FOAM TESTED IN A ACCORDANCE WITH CAN/ULC-S115 (EG. HILTI FIRE FOAM CP 620 OR 3M FIRE BARRIER SEALANT CP 25WB+)

**FOR HVAC DUCTING**

- ADDRESSED WITH IN-DUCT SMOKE DETECTOR:
- SEE NOTE NEAR FURNACE ON FLOOR PLAN

**FOR SERVICE ITEMS IN FIRE SEPARATION (VALVES, METERS, ELECTRICAL BOXES, ETC)**

- USE ULC RATED FIRE-RATED ACCESS PANELS (MIN. 45 MINS.)

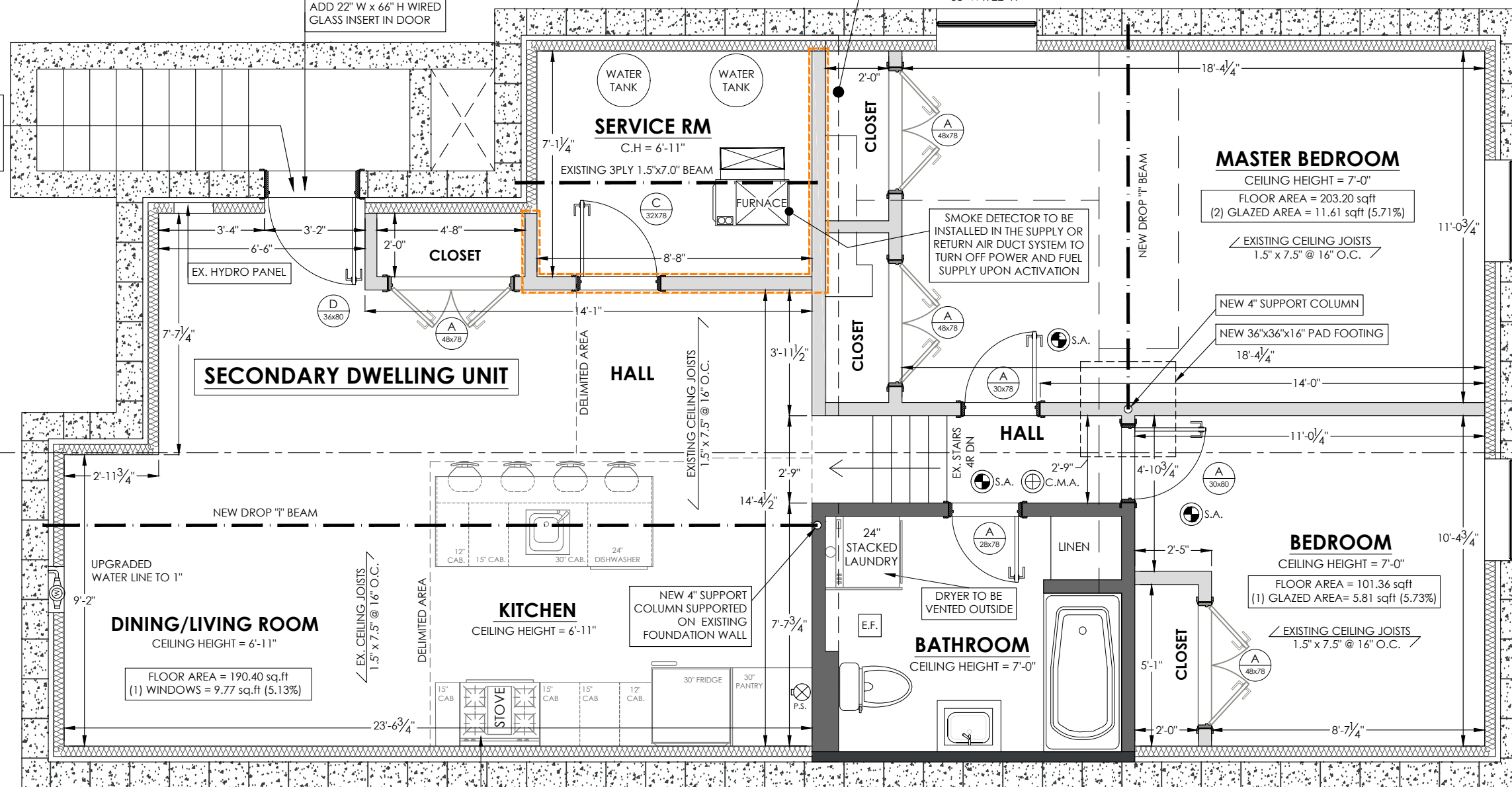


FROM DWELLING UNIT #1 ENTRANCE AND EXIT TO DWELLING UNIT #2 TO RM WITH O.B.C. 9.9.9 PART 11 C136 (A)

ADD 22" W x 66" H WIRED GLASS INSERT IN DOOR

\*DASHED LINE TO SHOW EXISTING FOUNDATION WALL

EXISTING WINDOW 38" W x 22" H



NOTE: ALL SMOKE ALARMS TO BE INTERCONNECTED BETWEEN DWELLING UNITS

PLANS LEGEND	
	EXHAUST FAN
	SPECIFICATION TAG
	SMOKE ALARM
	CARBON MONOXIDE ALARM
	CEILING HEIGHT
	PLUMBING STACK
	WATER METER
	FLOOR DRAIN
	STRUCTURAL BEAM OR WALL
	STRUCTURAL COLUMN
	FOUNDATION WALL
	EXISTING EXTERIOR WALLS
	NEW EXTERIOR WALLS
	EXISTING EXTERNAL WALLS
	EXISTING INTERIOR WALLS
	NEW EXTERNAL WALLS
	NEW INTERIOR WALLS
	STRUCTURAL WALLS
	WINDOWS

DOOR LEGEND	
	A. PANEL DOOR
	B. FIRE DOOR w/ SELF CLOSER (45 MIN)
	C. FIRE DOOR w/ SELF CLOSER (20 MIN)
	D. EXTERIOR DOOR
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	G. POCKET DOOR

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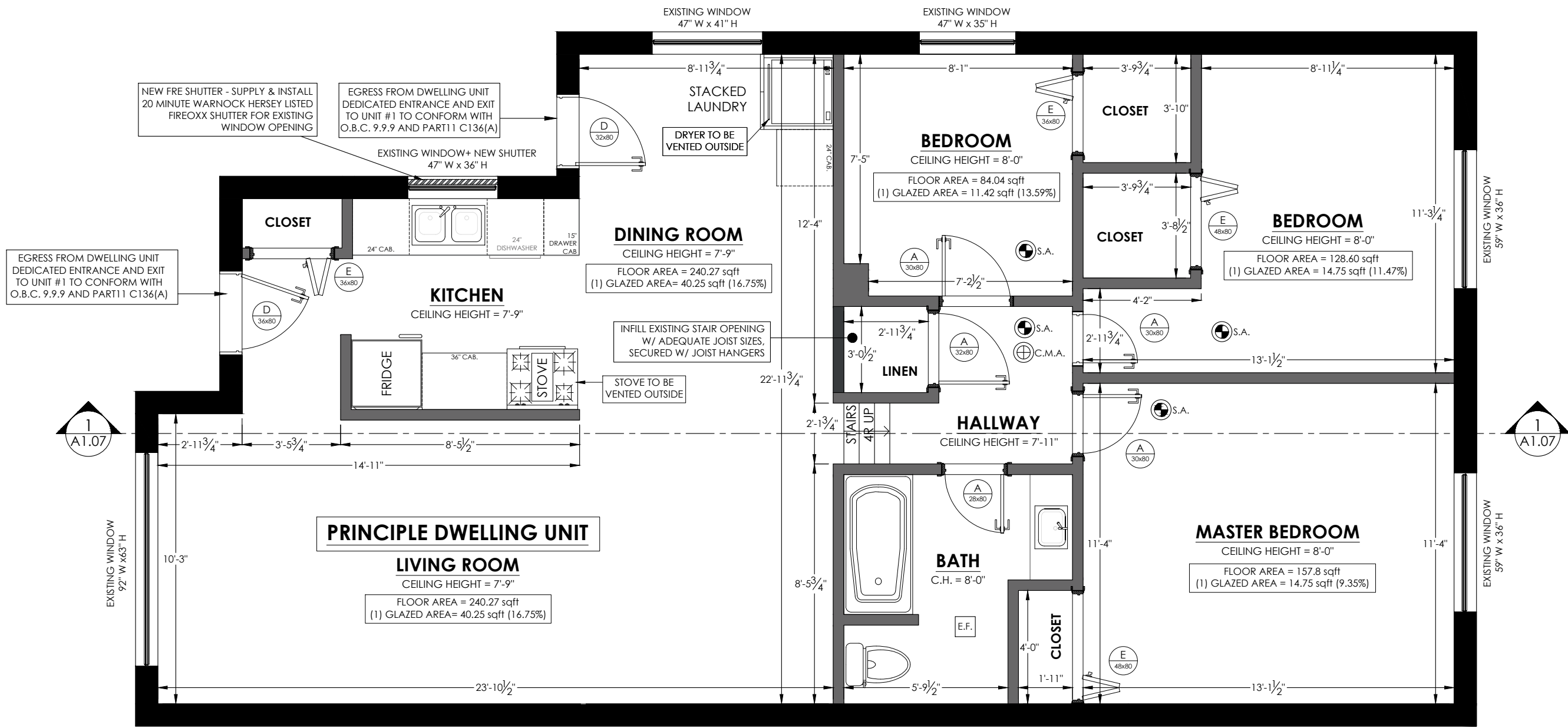
SUBJECT: **PROPOSED BASEMENT - SECONDARY DWELLING UNIT**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **1/4" = 1'**

SHEET#: **A 1.03**



NEW FIRE SHUTTER - SUPPLY & INSTALL 20 MINUTE WARNOCK HERSEY LISTED FIREOXX SHUTTER FOR EXISTING WINDOW OPENING

EGRESS FROM DWELLING UNIT DEDICATED ENTRANCE AND EXIT TO UNIT #1 TO CONFORM WITH O.B.C. 9.9.9 AND PART 11 C136(A)

EGRESS FROM DWELLING UNIT DEDICATED ENTRANCE AND EXIT TO UNIT #1 TO CONFORM WITH O.B.C. 9.9.9 AND PART 11 C136(A)

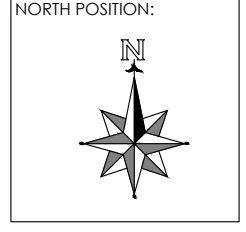
NOTE: ALL SMOKE ALARMS TO BE INTERCONNECTED BETWEEN DWELLING UNITS

PLANS LEGEND	
	BATH
	EXHAUST FAN
	SPECIFICATION TAG
	SMOKE ALARM
	CARBON MONOXIDE ALARM
	CEILING HEIGHT
	PLUMBING STACK
	WATER METER
	FLOOR DRAIN
	STRUCTURAL BEAM OR WALL
	STRUCTURAL COLUMN
	FOUNDATION WALL
	EXISTING EXTERIOR WALLS
	NEW EXTERIOR WALLS
	EXISTING EXTERNAL WALLS
	NEW EXTERNAL WALLS
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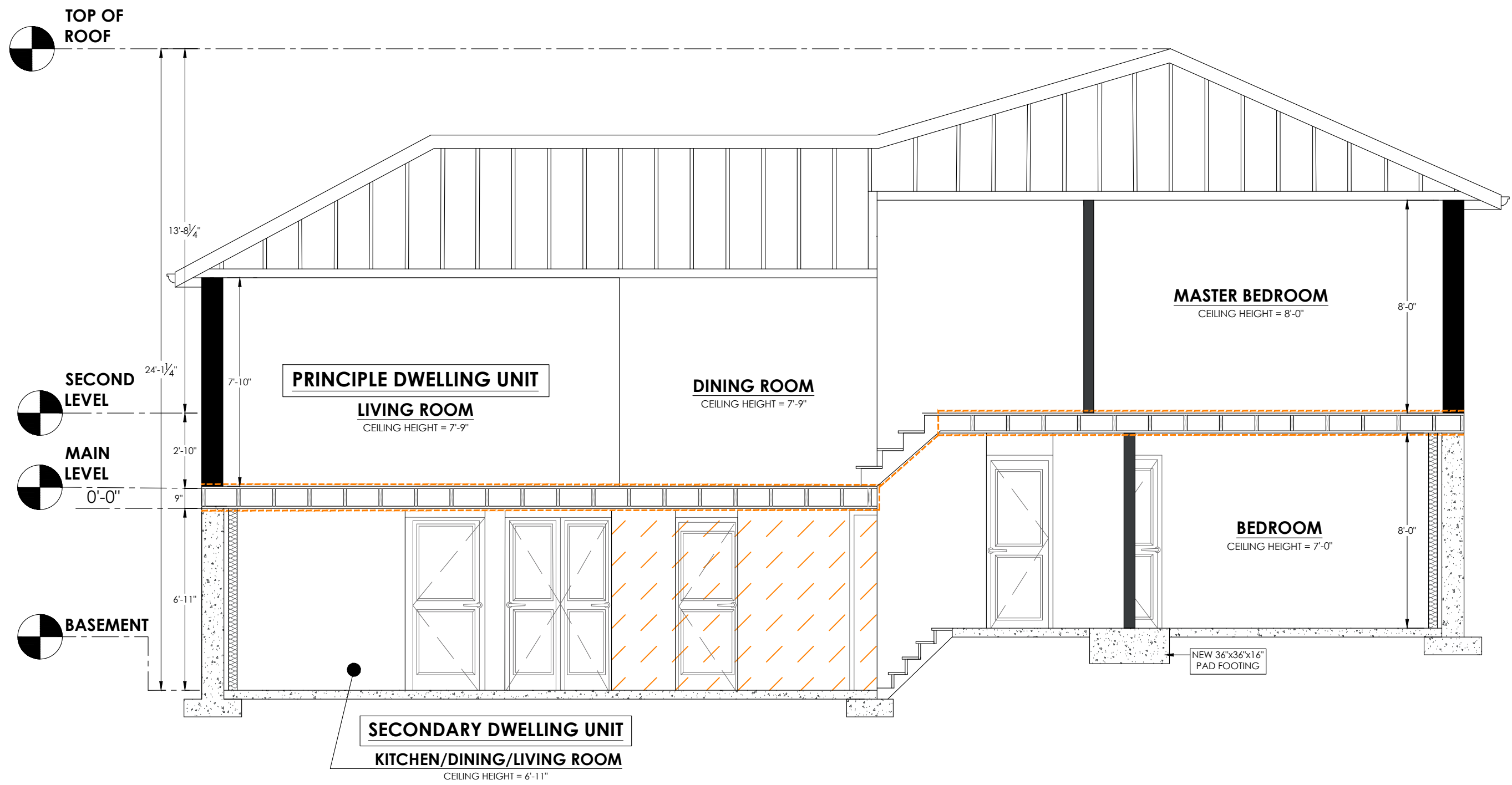
SUBJECT: **PROPOSED GROUND FLOOR - PRINCIPLE DWELLING UNIT**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **1/4" = 1'**

SHEET#: **A 1.04**



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NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

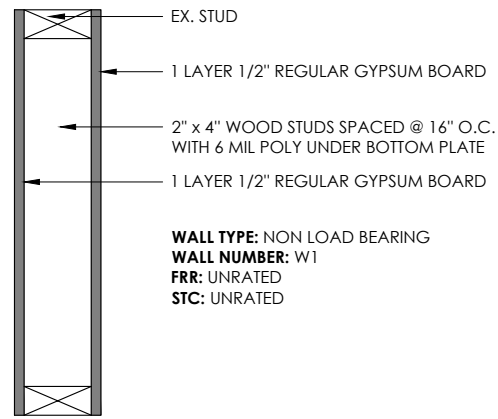
SUBJECT: **PROPOSED CROSS SECTION**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

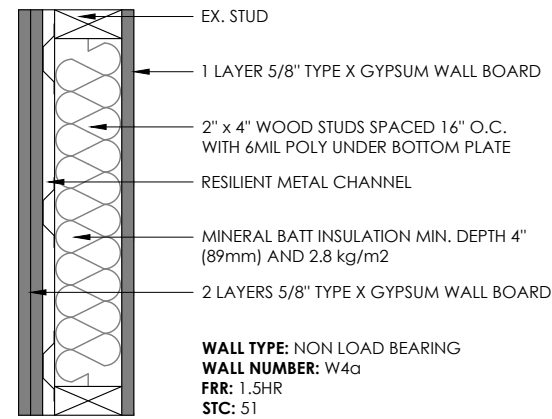
SCALE: -

SHEET#: **A 3.01**



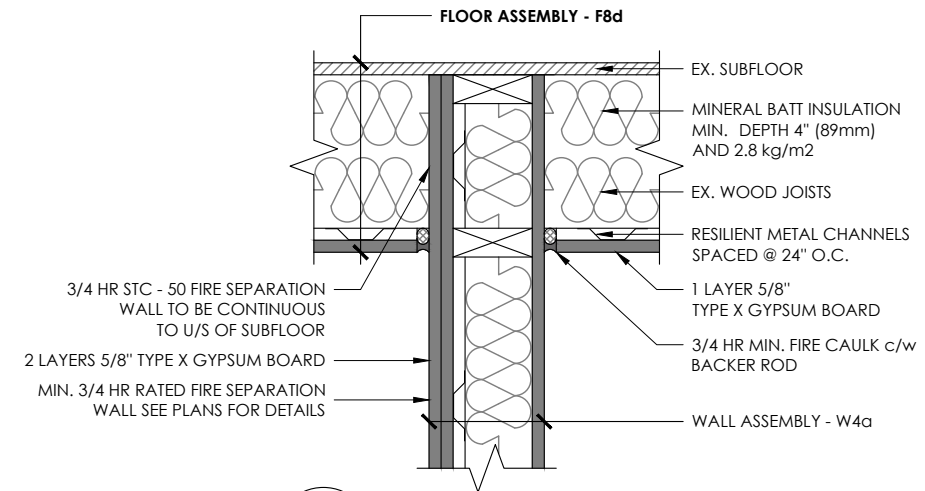
**WALL TYPE:** NON LOAD BEARING  
**WALL NUMBER:** W1  
**FRR:** UNRATED  
**STC:** UNRATED

**01 NEW: INTERIOR PARTITION WALL**  
 WITH GWB BOTH SIDES



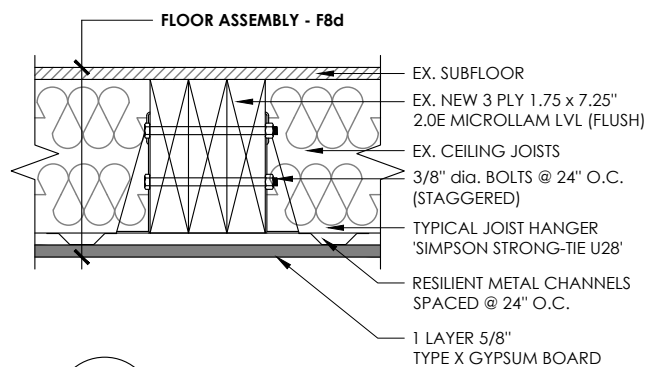
**WALL TYPE:** NON LOAD BEARING  
**WALL NUMBER:** W4a  
**FRR:** 1.5HR  
**STC:** 51

**02 NEW: INTERIOR PARTITION WALL**  
 WITH 1HR FIRE SEPARATION

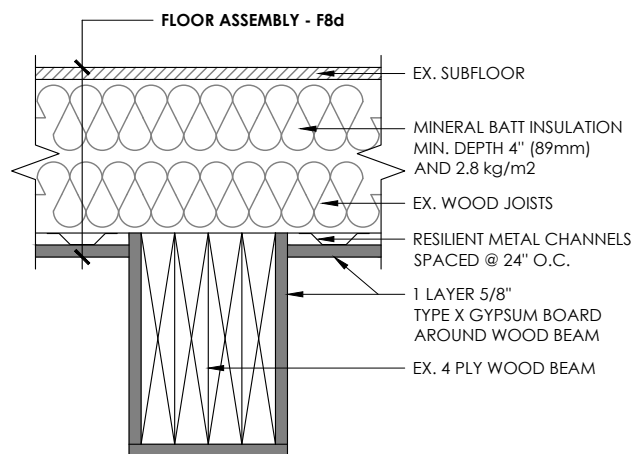


**FLOOR ASSEMBLY - F8d**  
 EX. SUBFLOOR  
 MINERAL BATT INSULATION  
 MIN. DEPTH 4" (89mm)  
 AND 2.8 kg/m<sup>2</sup>  
 EX. WOOD JOISTS  
 RESILIENT METAL CHANNELS  
 SPACED @ 24" O.C.  
 1 LAYER 5/8"  
 TYPE X GYPSUM BOARD  
 3/4 HR MIN. FIRE CAULK c/w  
 BACKER ROD  
**WALL ASSEMBLY - W4a**  
 3/4 HR STC - 50 FIRE SEPARATION  
 WALL TO BE CONTINUOUS  
 TO U/S OF SUBFLOOR  
 2 LAYERS 5/8" TYPE X GYPSUM BOARD  
 MIN. 3/4 HR RATED FIRE SEPARATION  
 WALL SEE PLANS FOR DETAILS

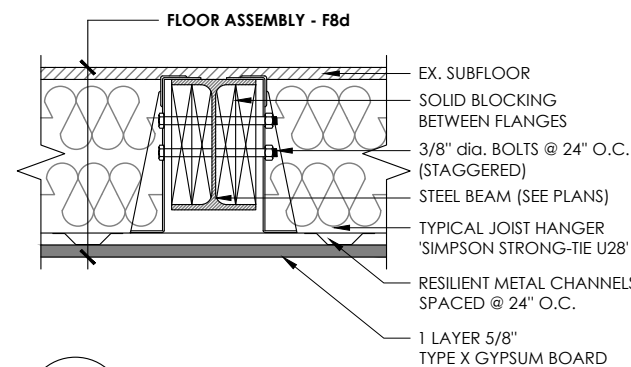
**03 VERTICAL FIRE SEPARATION**  
 AT CEILING DETAIL



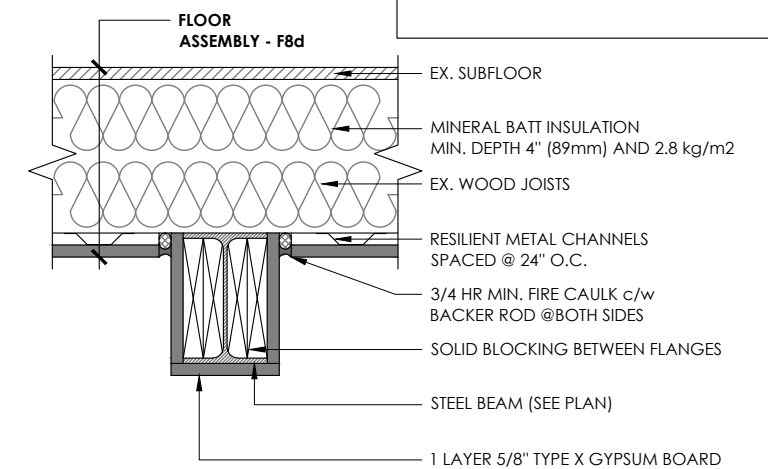
**04 LVL BEAM DETAIL**  
 FLUSH



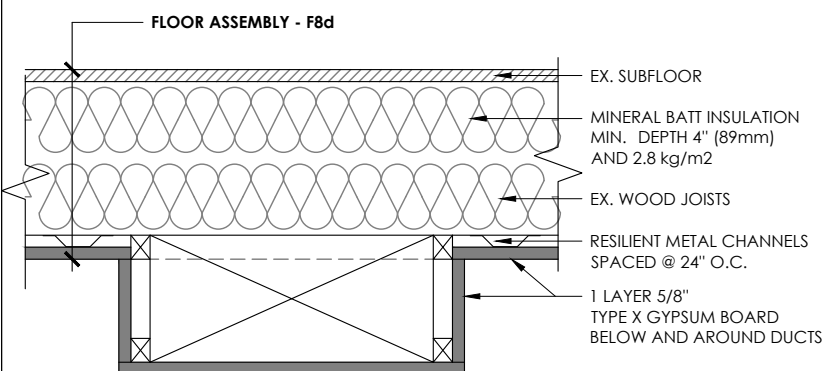
**05 WOOD BEAM FIRE RATED**  
 DROPPED



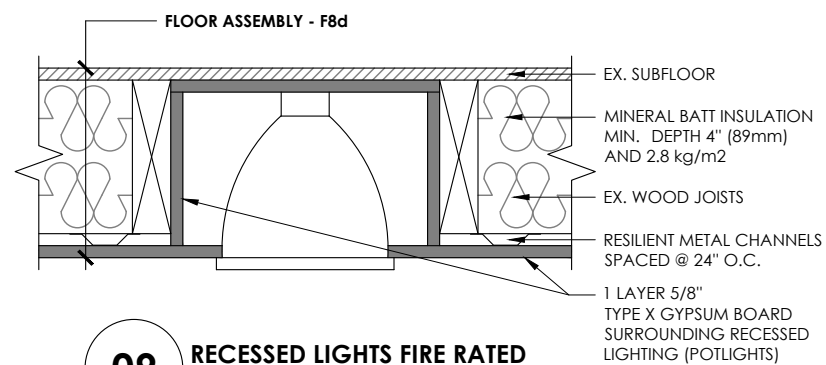
**06 STEEL BEAM FIRE RATED**  
 FLUSH



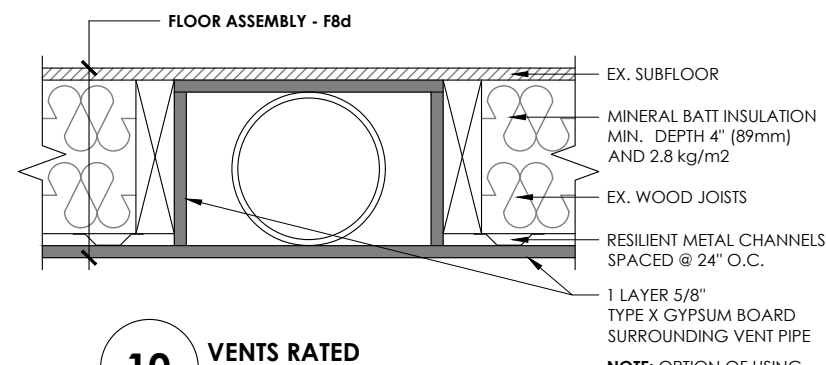
**07 STEEL BEAM FIRE RATED**  
 DROPPED



**08 DUCTS FIRE RATED**



**09 RECESSED LIGHTS FIRE RATED**



**10 VENTS RATED**  
 BATH FANS, CLOTHES DRYERS &  
 KITCHEN EXHAUSTS

**NOTE:** OPTION OF USING  
 FIRE DAMPER

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NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

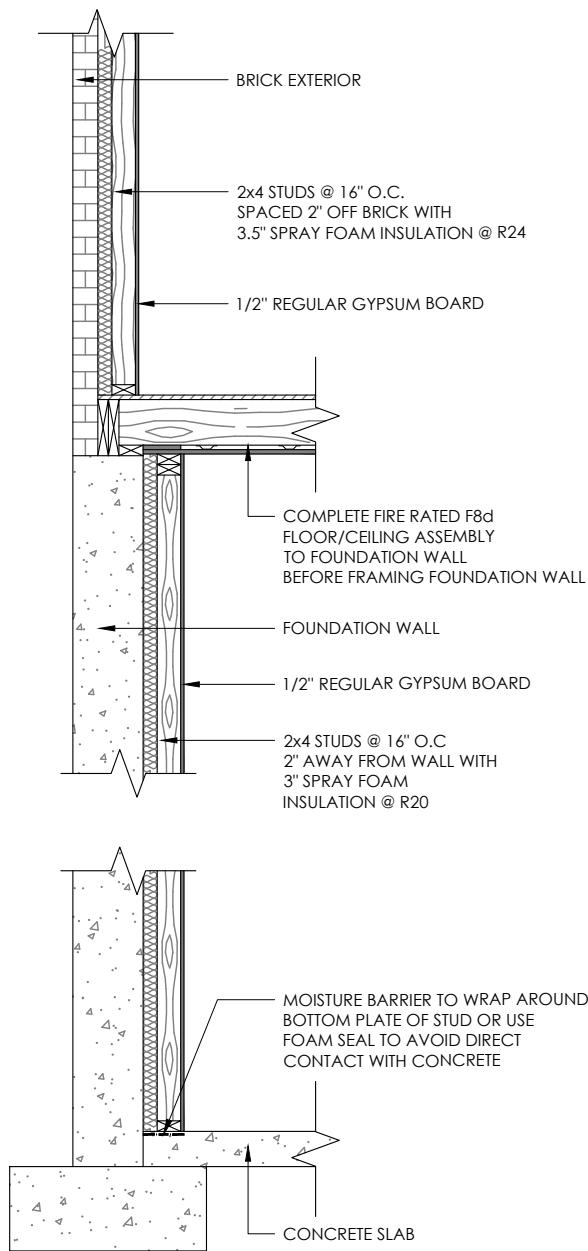
SUBJECT: **FIRE SEPARATION DETAILS 1**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **1" = 1'**

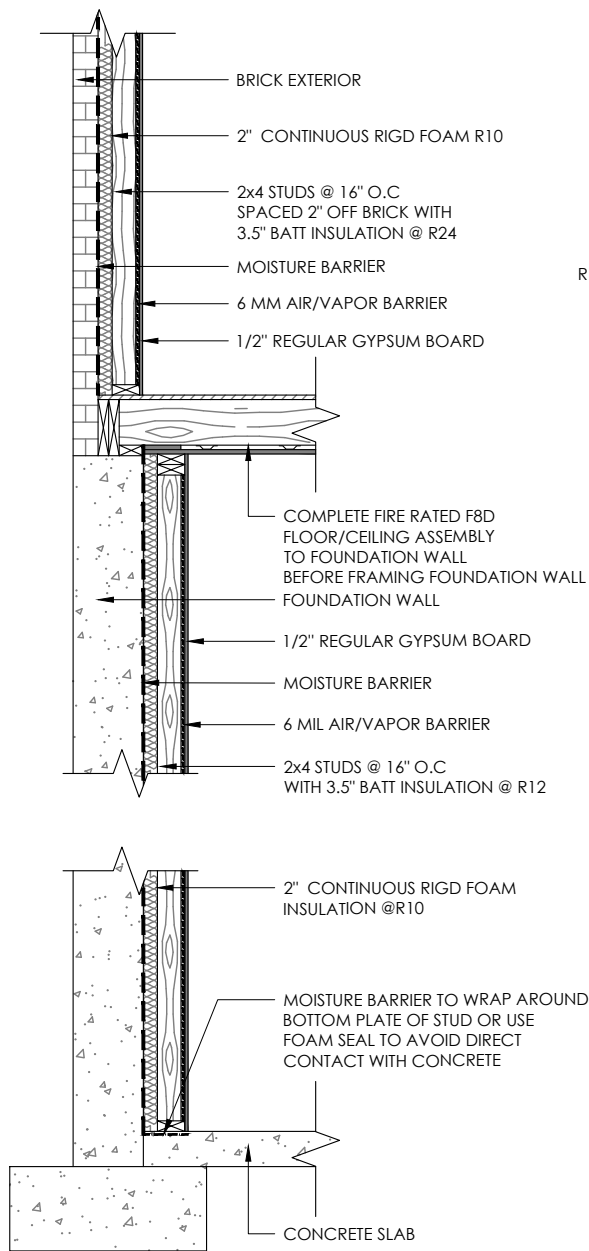
SHEET#: **A 4.01**



**NOTE:** FOUNDATION WALL, SLAB AND FOOTING FOR REFERENCE ONLY - EXACT SIZE NOT DETERMINED

EXTERIOR FOUNDATION WALL DETAIL FOR NEW PORTIONS ONLY

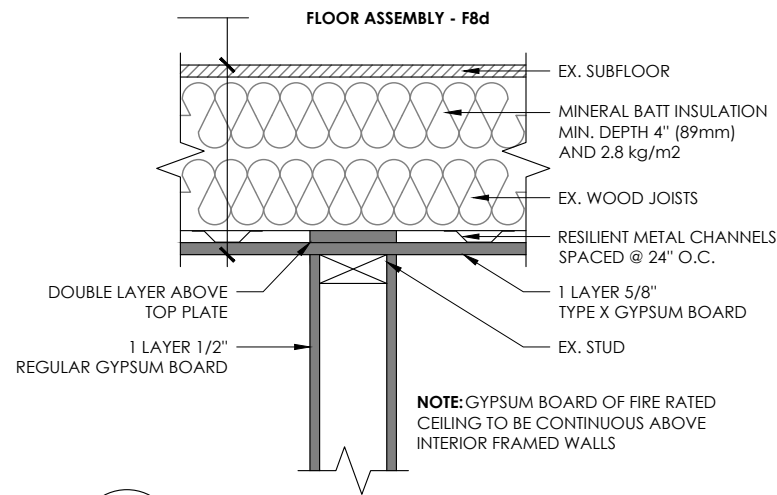
**11 EXTERIOR WALL SPRAY FOAM**



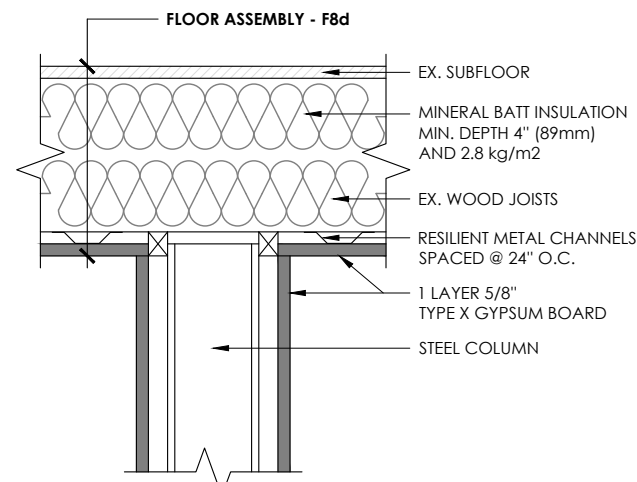
**NOTE:** FOUNDATION WALL, SLAB AND FOOTING FOR REFERENCE ONLY - EXACT SIZE NOT DETERMINED

EXTERIOR FOUNDATION WALL DETAIL FOR NEW PORTIONS ONLY

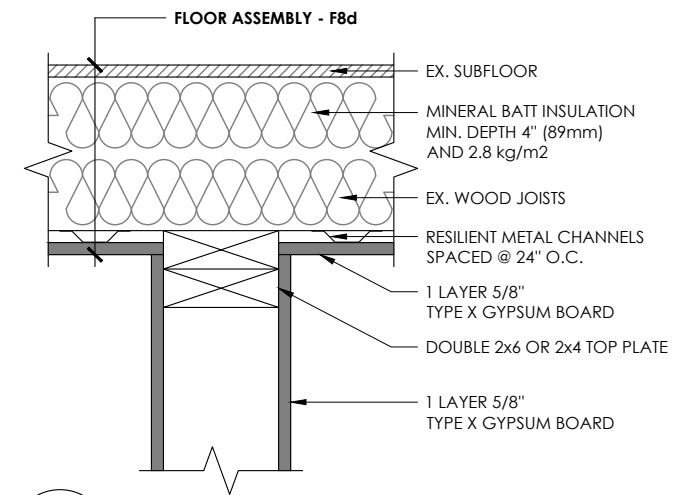
**12 EXTERIOR WALL BATT INSULATION**



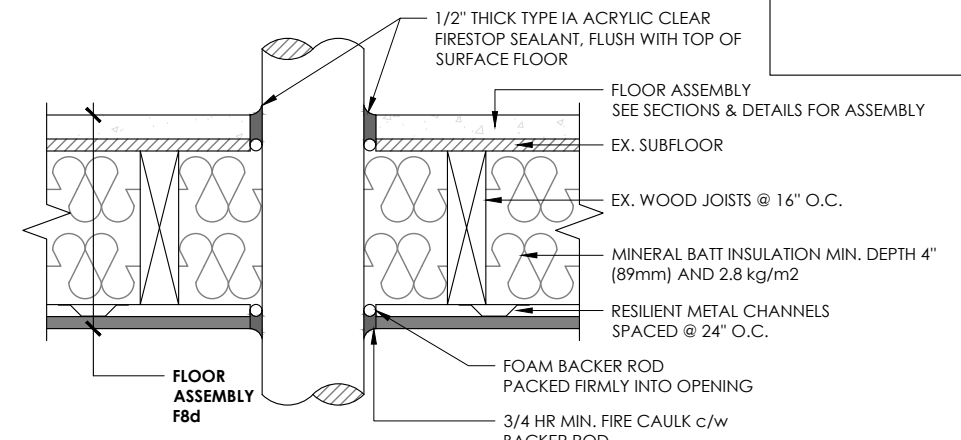
**13 INTERIOR WALL - NON LOAD BEARING FIRE SEPARATION**



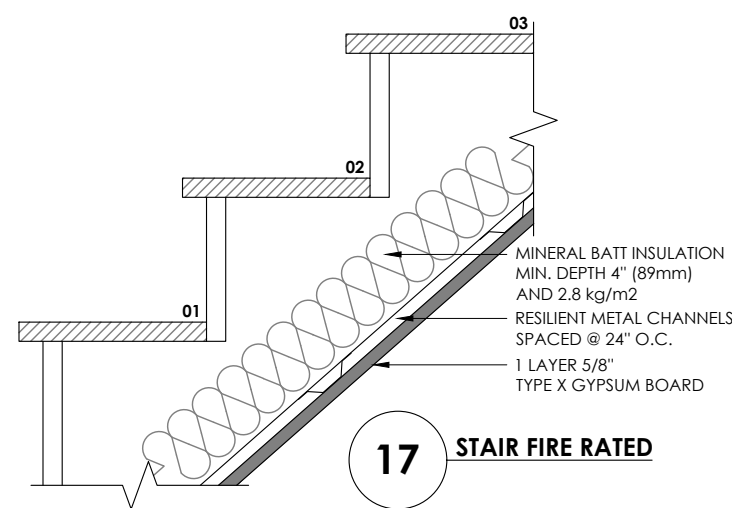
**15 STRUCTURAL COLUMNS FIRE SEPARATION**



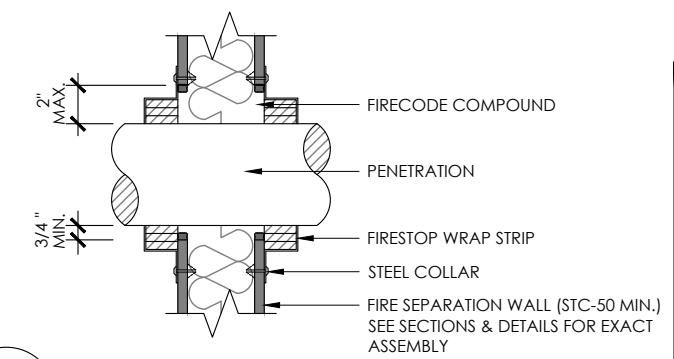
**14 LOAD BEARING FIRE RATED WALL AT CEILING DETAIL**



**16 FIRESTOP DETAIL FLOOR PENETRATION**  
SEE HILTI DETAILS



**17 STAIR FIRE RATED**



**18 FIRESTOP DETAIL WALL PENETRATION**  
SEE HILTI DETAILS

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**KING**

NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **FIRE SEPARATION DETAILS 2**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **1" = 1'**

SHEET#: **A 4.01**

# System No. C-AJ-2053

- F Rating — 3 Hr**  
**FT Ratings — 0 and 2 Hr (See Item 2)**  
**FH Ratings — 0 and 3 Hr (See Item 3E)**  
**FTH Ratings — 0 and 2 Hr (See Items 2 and 3E)**  
**L Rating At Ambient — Less Than 1 CFM/ft<sup>2</sup>**  
**L Rating 400 F — Less Than 1 CFM/ft<sup>2</sup>**  
**W Rating — Class 1 (See Items 2, 3 and 4)**

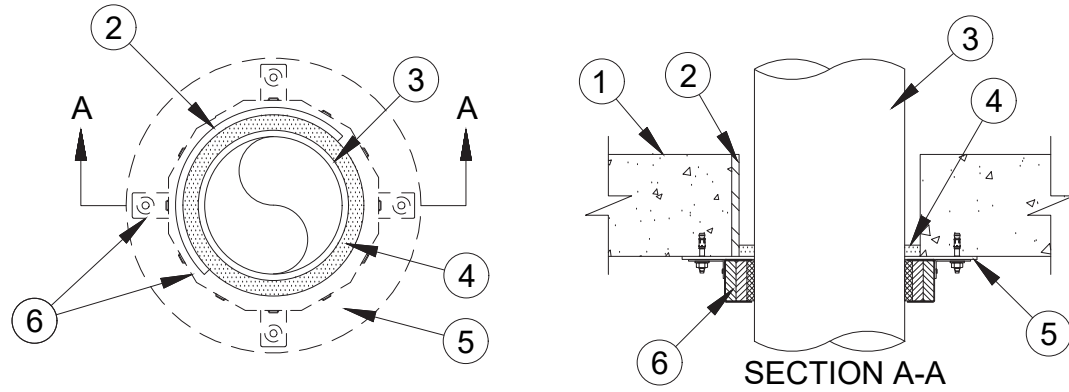


CAJ 2053

# System No. C-AJ-2053



CAJ 2053



**4. Fill, Void or Cavity Material\*** -- Sealant -- Min 13 mm (1/2 in.) thickness of fill material applied within the annulus, flush with bottom surface of floor or both surfaces of wall assembly. Additionally, nom 6 mm (1/4 in.) beads of fill material applied between concrete and cover plate (Item 5) and between cover plate and firestop device (Item 6). W Rating applies only when CP601S or CFS-S SIL GG Sealant is used. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP601S, CP606, CFS-S SIL GG, FS-One Sealant or FS-ONE MAX Intumescent Sealant  
 Note: CP 606 not suitable for use with CPVC pipes

**5. Metal Cover Plate** -- Min 18 ga steel with max I.D. 6 mm (1/4 in.) larger than O.D. of pipe. Min. O.D. of cover plate to be 152 mm (6 in.) larger than O.D. of pipe. Installed between underside of floor or both sides of wall between collar and floor or wall surfaces.

**6. Firestop Device\*** -- Firestop Collar -- Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to underside of floor or both sides of wall floor using the anchor hooks provided with the collar. (Minimum two anchor hooks for nom 38 and 51 mm (1-1/2 and 2 in.) diam pipes, three anchor hooks for nom 76 and 102 mm (3 and 4 in.) diam pipes, and four anchor hooks for nom 152 mm (6 in.) diam pipes. The anchor hooks are to be secured with min 6 mm (1/4 in.) diam by min 32 mm (1-1/4 in.) long steel expansion bolts. As alternates to the anchors specified above, Hilti 6 mm (1/4 in.) diam by 32 mm (1-1/4 in.) long KWIK-CON II+ concrete screw anchor or Hilti 6 mm (1/4 in.) diam by (45 mm) 1-3/4 in. long KWIK-BOLT 3 steel expansion anchor may be used.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N or CP 643 160/6"N  
 Firestop Collar

**7. Packing Material** -- (Not Shown) -- Required only when XFR PVC pipe (Item 3E) is used with steel pipe sleeve (Item 2). Mineral wool batt insulation having min density of 4 pcf (64 kg/m<sup>3</sup>), firmly packed into annular space between steel sleeve and pipe flush with top surface of floor.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- 1. Floor or Wall Assembly** -- Min 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m<sup>3</sup> or 100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 203 mm (8 in.). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 2. Steel Sleeve** -- (Optional) - Nom 203 mm (8 in.) diam (or smaller) Schedule 40 (or thinner) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces. The W Rating and the 2 hr FT and FTH Ratings do not apply when the steel sleeve is used.
- 3. Through Penetrants** -- One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and sleeve (Item 3) shall be min 6 mm (1/4 in.) to max 32 mm (1-1/4 in.). For systems with a W Rating, the max annular space is 13 mm (1/2 in.). Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
- A. Polyvinyl Chloride (PVC) Pipe** -- Nom. 152 mm (6 in.) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
  - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe** -- Nom 152 mm (6 in.) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
  - C. Acrylonitrile Butadiene Styrene (ABS) Pipe** -- Nom 152 mm (6 in.) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - D. Flame Retardant Polypropylene (FRPP) Pipe** -- Nom 152 mm (6 in.) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - E. XFR 15/50 Polyvinyl Chloride (PVC) Pipe** -- Nom 152 mm (6 in.) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems. The FH and FTH Ratings are 0 hr when XFR PVC pipe is used in the system.



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 September 11, 2018

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NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **HILTI DETAILS 1 OF 5**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **N/A**

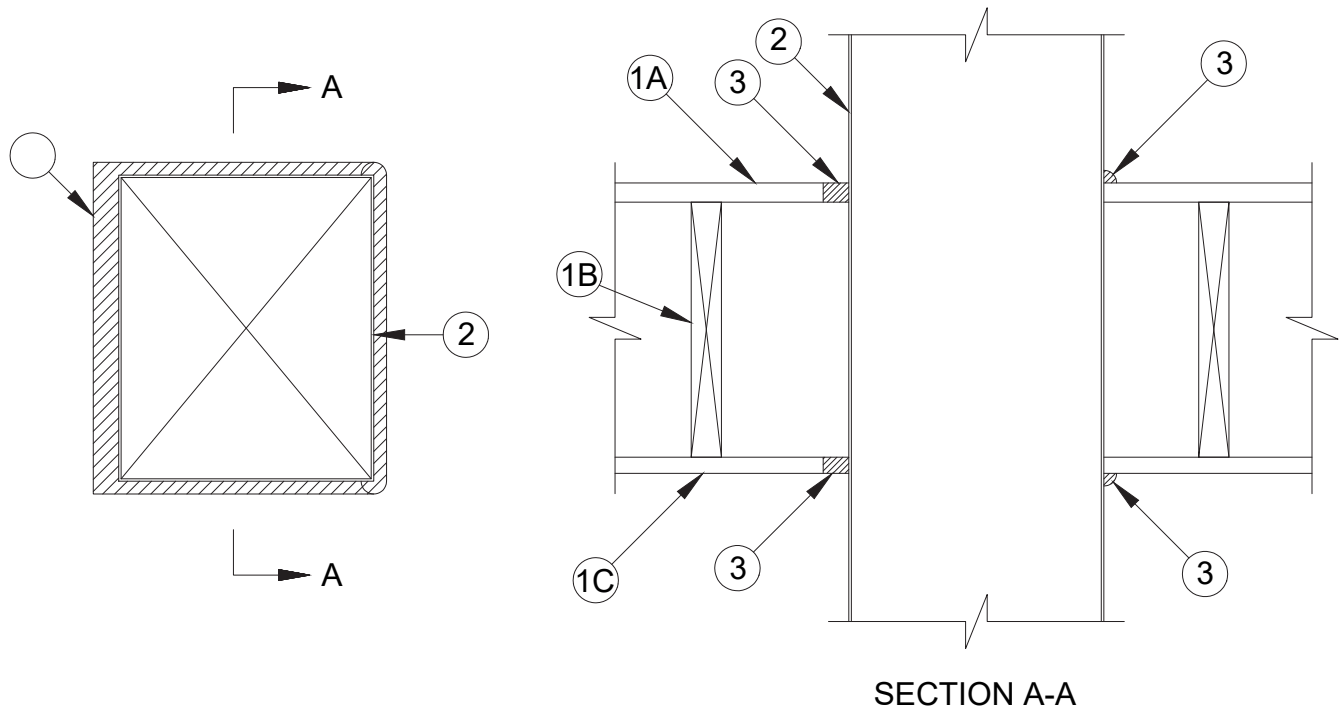
SHEET#: **A 5.01**





### System No. F-C-7043

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 Hr	F Rating - 1 Hr
T Rating - 1/4 Hr	FT Rating - 1/4 Hr
	FH Rating - 1 Hr
	FTH Rating - 1/4 Hr

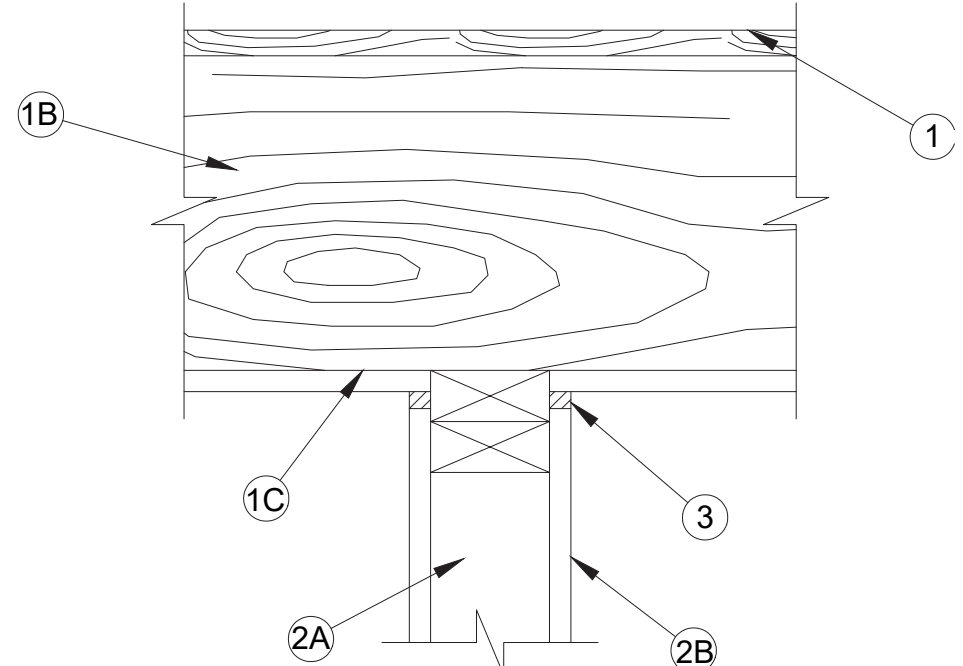


FC 7043



### System No. HW-S-0090

ANSI/UL2079	CAN/ULC S115
Assembly Rating - 1 Hr	F Rating - 1 Hr
Joint Width - 1/2 In Max.	FT Rating - 1/4 Hr
	FH Rating - 1 Hr
	FTH Ratings - 1/4 Hr
	Joint Width - 1/2 In Max.



HWS 0090

ELETRONIC STAMP

- 1. Floor-Ceiling Assembly** - The 1 hr fire rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
- A. Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design, Max area of opening shall be 143 in.2 (923 cm2) with a max dimension of 13 in. (330mm).
  - B. Wood Joists\*** - Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.
  - C. Gypsum Board\*** - Min 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design, Max area of opening shall be 143 in.2 (923 cm2) with a max dimension of 13 in. (330mm).
- 2. Steel Duct** - Max 12 by 10 in. (305 by 254 mm) No. 28 ga. (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Steel duct to be rigidly supported on both sides of the floor-ceiling assembly.
- 3. Firestop System** - Min 3/4 in. (19 mm) thickness of sealant applied within the annulus flush with the top surface of the floor. Min 5/8 in. (16 mm) thickness of sealant applied within the annulus flush with the bottom surface of gypsum board ceiling.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 606 Flexible Firestop Sealant or FS-One Sealant or FS-ONE MAX Intumescent Sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

- 1. Floor Assembly** - The 1hr fire-rated wood joist, wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design.
  - B. Wood Joists** - Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.
  - C. Gypsum Board** - Nom 4 ft. (122 cm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design.
- 2. Wall Assembly** - The 1 hr fire rated gypsum board/lumber stud wall assembly shall be constructed of the materials and in the manner described on the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
- A. Studs** - Wall framing to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Top plate installed parallel or perpendicular to direction of wood joists and secured to bottom of joists with steel fasteners spaced max 24 in. (610 mm) OC.
  - B. Gypsum Board\*** - Gypsum board sheets installed to a min total thickness of 5/8 in ( 16 mm) on each side of wall. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance directory, except that a max 1/2in. (13 mm) gap shall be maintained between the top of the gypsum board and the ceiling of the floor-ceiling assembly.
- 3. Joint System** - Fill, Void or Cavity Material\* - Sealant - Max separation between the bottom of the ceiling and the top of the wall is 1/2 in. (13 mm). Min 5/8 in. (16 mm) thickness of fill material installed to the fill the joint, flush with each surface of the wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant, CP606 Sealant or FS-ONE MAX Intumescent Sealant.
- \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **HILTI DETAILS 2 OF 5**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **N/A**

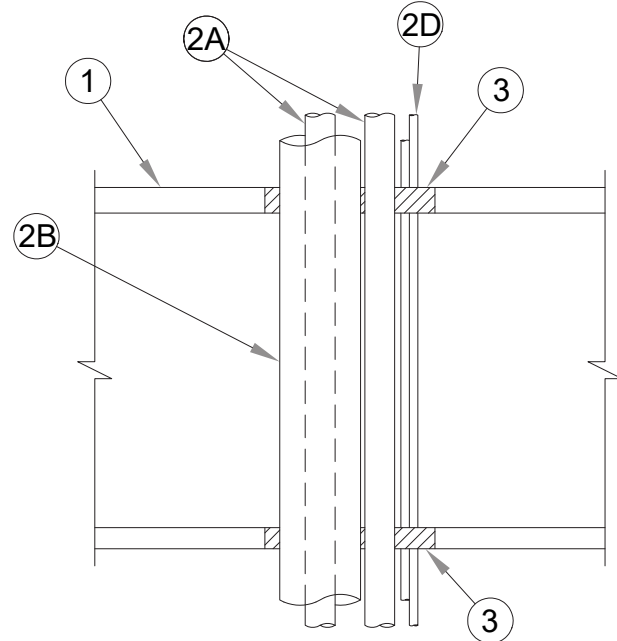
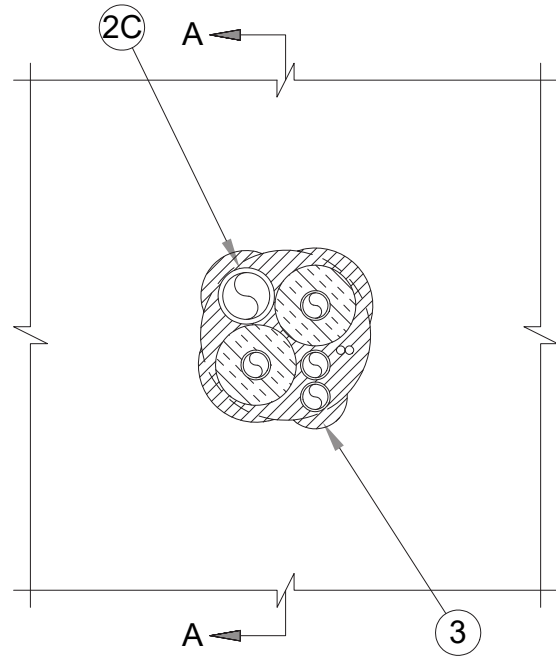
SHEET#: **A 5.02**



### System No. F-C-8026

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - Hr	F Rating - 1 Hr
T Rating - Hr	FT Rating - Hr
	FH Rating - 1 Hr
	FTH Ratings - 1 Hr

FC 8026



SECTION A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

**1. Floor-Ceiling Assembly** - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:

- A. Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).
- B. Wood Joists\*** - Nom 10in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.
- C. Gypsum Board\*** - Nom 4 ft (122 cm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.

**1A. Chase Wall** - (Optional, Not Shown) - The through penetrants (Item 2) may be routed through a 1 hr fire single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs** - Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
- B. Sole Plate** - Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted, Max diam of opening is 5 in. (127 mm).
- C. Top Plate** - The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), two nom 2 by 6 in. (51 by 102 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 5 in. (127 mm).
- D. Gypsum Board\*** - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

### System No. F-C-8026

FC 8026

ELETRONIC STAMP

**2. Through Penetrants** - One or more pipes, conduits, tubing and cables to be installed concentrically or eccentrically within the opening. The space between any penetrant, except nonmetallic pipes and uninsulated metallic pipes to be min 0 in. (point contact) to max 1 in. (25 mm). The space between any penetrants and the periphery of the opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Pipes, conduits, tubing and cables to be rigidly supported on both sides of floor-ceiling assembly.

**A. Metallic Penetrants** - One or more metallic pipes, conduits or tubing to be installed within the firestop system. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A1. Steel Pipe** - Nom 3/4 in. (19 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- A2. Conduit** - Nom 3/4 in. (19 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 3/4 in. (19 mm) diam galv steel conduit.
- A3. Copper Tube** - Nom 3/4 in. (19 mm) diam (or smaller) Type L (or heavier) copper tube.
- A4. Copper Pipe** - Nom 3/4 in. (19 mm) diam (or smaller) Regular (or heavier) copper pipe.
- B. Tube Insulation** - Plastics+ - Nom 3/4 in. (19mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation to be installed on one or more of the metallic pipes or tubes (Item 2A). See Plastic+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
- C. Nonmetallic Through Penetrants** - One nonmetallic pipe to be installed within the firestop system. Pipe shall be spaced a min 1-1/2 in. (38 mm) from non-uninsulated metallic through penetrants. The following types and sizes of metallic pipes may be used:
  - C1. Polyvinyl Chloride (PVC) Pipe** - Nom 1-1/4 in. (32 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
  - C2. Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 1-1/4 in (32 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
- D. Cables** - Max of two 4 pair No. 18 AWG (or smaller) cable with PVC insulation and jacket materials.

**3. Fill, Void or Cavity Materials\*** - Sealant - Min 3/4 in. (19 mm) thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. (16 mm) thickness of sealant applied within the annulus flush with bottom surface of gypsum board or top plat. A min 1/4 in. (6 mm) diameter bead of sealant applied at the bundle/subflooring or sole plate interface and the bundle/gypsum board or top plate interface at point contact locations.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant or FS-ONE\_MAX Intumescent Sealant

\*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+ Bearing the UL Recognized Component Mark



Hilti Firestop Systems

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NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **HILTI DETAILS 3 OF 5**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **N/A**

SHEET#: **A 5.03**

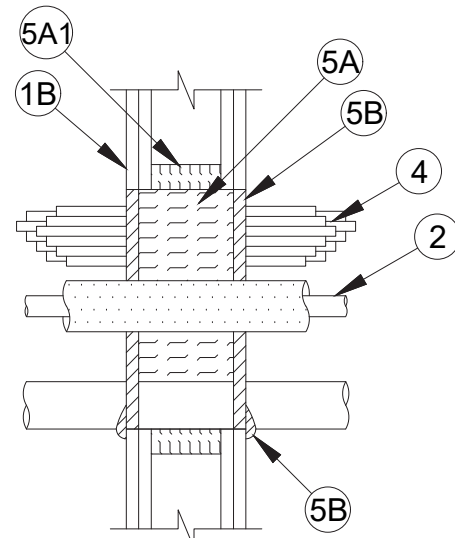
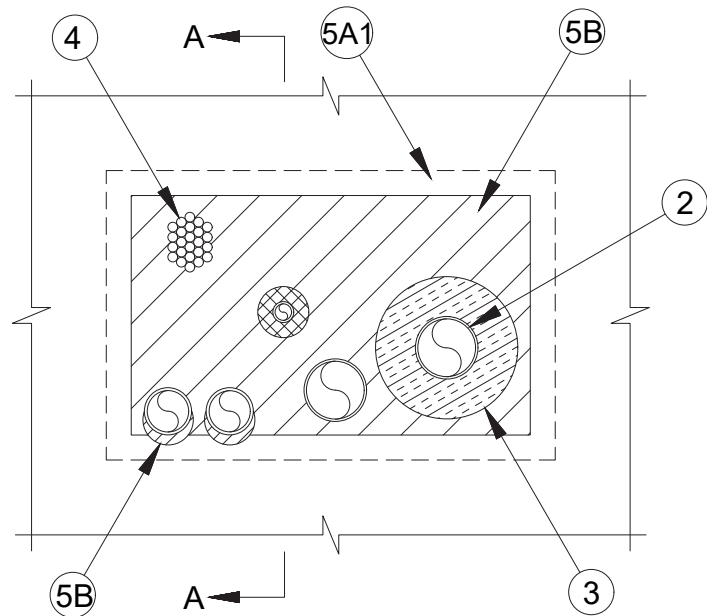




# System No. W-L-8079

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)	FT Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)

WL 8079



SECTION A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

**1. Wall Assembly** -- The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs** -- Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When Item 5A1 is not used, additional framing members (not shown) shall be installed to frame the periphery of the wall opening. When the additional framing members are used to frame the opening, the hourly T, FT and FTH Ratings of the firestop system are 0 hr.
- B. Gypsum Board\*** -- 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the through penetrants are installed in a wood stud/gypsum board assembly, the max area of square, rectangular, or circular opening is 210 sq in. (1355 cm<sup>2</sup>) with max dimension of 14-1/2 in. (368 mm). If the through penetrants are installed in a steel stud/gypsum board assembly, max area of square, rectangular, or circular opening is 240 sq in. (1548 cm<sup>2</sup>) with max dimension of 20 in. (508 mm) wide.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

# System No. W-L-8079

WL 8079

**2. Through-Penetrant** -- One or more pipes, conduit or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacing between the through penetrants are maintained. The separation between the penetrants shall be min 1 in. (25 mm) to max 20 in. (508mm). The annular space between penetrants and the periphery of opening shall be min 0 in. (point contact) to max 20 in. (508 mm). Pipes, conduit or tubes to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduit or tubes may be used.

- A. Copper Tubing** -- Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.
- B. Copper Pipe** -- Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.
- C. Steel Pipe** -- Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- D. Iron Pipe** -- Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
- E. Conduit** -- Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or rigid steel conduit.
- F. Polyvinyl Chloride (PVC) Pipe** -- Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
- G. Chlorinated Polyvinyl Chloride (CPVC) Pipe** -- Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

The T, FT and FTH Ratings are 0 Hr if bare pipe and tubing is used.

**3. Pipe Insulation** -- One or more metallic penetrants (pipe or tubing) may be insulated with the following types of pipe coverings:

- A. Pipe Covering\*** -- Min 1 in. (25 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density min 3.5 pcf (56 kg/m<sup>3</sup>) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

- B. Tube Insulation-Plastics+** -- Min 1/2 in. (13 mm) to max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See Plastics+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

The annular space between the insulated penetrants and the periphery of the opening shall be min 0 in. (0 mm, point contact) The separation between the insulated penetrants and the other penetrants shall be a min 1 in. (25 mm).

The T, FT and FTH Ratings are 1-1/2 hour if Item 3B is used. The T, FT and FTH Ratings are 2 hr if Item 3A is used.

**4. Cables** -- One max 3 in. (76 mm) diam bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The annular space between the tightly-bundled cables and the periphery of the opening shall be min 0 in. (point contact) to max 20 in. (508 mm). The separation between the cable bundle and the other penetrants shall be min 1 in. (25 mm) to max 20 in. (508 mm). Any combination of the following types and sizes of cables may be used:

- A. Max 25 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
- B. Max 7/C No. 12 AWG copper conductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
- C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
- D. Max 3/C No. 8 AWG with bare aluminum ground, PVC insulated steel Metal-Clad+ Cable currently Classified under the Through Penetrating Product\* (XHLY) category.
- E. Max 3/C (with ground) No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.



Hilti Firestop Systems

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ELETRONIC STAMP

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NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **HILTI DETAILS 4 OF 5**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **N/A**

SHEET#: **A 5.04**



# System No. W-L-8079

WL 8079

ELETRONIC STAMP

- F. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diam of 1/2 in. (13 mm).
- G. Max 3/4 in. (19 mm) diam copper ground cable with or without PVC jacket.
- H. Max 1-1/4in. (32 mm) Diam single or multi conductor mineral-insulated copper-clad cable.

The T, FT and FTH Ratings are 1/4 hr if cables D, G and H are used. The T, FT and FTH Ratings are 3/4 Hr for any other combination.

**4A. Through Penetrants --** (Not shown) - Max six nom 1 in. (25 mm) diam (or smaller) flexible steel conduits to be installed either concentrically or eccentrically within the firestop system. The annular space between the conduits and the periphery of the opening shall be min 0 in. (point contact) to a max 3 in. (76 mm). Conduits to be rigidly supported on both sides of wall. The T, FT and FTH Ratings are 0 Hr if this penetrant is used.

**4B. Through Penetrants --** (Not Shown) - Max twelve nom 3/8 in. (10 mm) diam (or smaller) polyvinyl chloride (PVC) pneumatic tubing for use in closed (process or supply) piping systems. Tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 1 in. (25 mm). Tubing to be rigidly supported on both sides of wall.

**5. Firestop System --** The firestop system shall consist of the following:

**A. Packing Material --** In 2 hr fire rated wall assemblies, min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.

**A1. Packing Material --** Min 1-1/4 in. (32 mm) thickness of min 4 pcf (64 kg/m<sup>3</sup>) mineral wool batt insulation firmly packed as a backer around the perimeter of opening as a permanent form. When additional framing members are used to frame the opening (see Item 1A), this packing material is optional. Packing material can be used in combination with the additional framing members.

**B. Fill, Void or Cavity Material\* --** Sealant -- Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrants and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

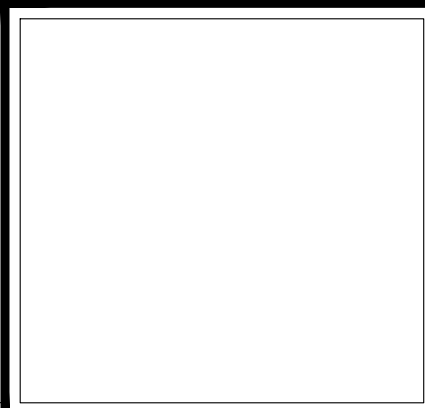
\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+ Bearing the UL Listing Mark

# Bearing the UL Recognized Component Mark



Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.  
April 26, 2017



**LEAD DESIGNER & CONSULTANT**  
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Legal Second Suites architectural and engineering service is owned by and operated in affiliation with King Homes Inc.

NORTH POSITION:

ADDRESS: **625 UPPER HORNING ROAD, HAMILTON, ON**

SUBJECT: **HILTI DETAILS 5 OF 5**

PROJECT: **SECONDARY DWELLING UNIT**

DATE: **MARCH 2022**

SCALE: **N/A**

SHEET#: **A 5.05**



Hamilton

Committee of Adjustment  
City Hall, 5<sup>th</sup> Floor,  
71 Main St. W.,  
Hamilton, ON L8P4Y5

Phone: (905) 546-2424 ext. 4221  
Email: [cofa@hamilton.ca](mailto:cofa@hamilton.ca)

### APPLICATION FOR A MINOR VARIANCE

<b>FOR OFFICE USE ONLY.</b>	
APPLICATION NO. _____	DATE APPLICATION RECEIVED _____
PAID _____	DATE APPLICATION DEEMED COMPLETE _____
SECRETARY'S SIGNATURE _____	

#### The Planning Act

#### Application for Minor Variance or for Permission

The undersigned hereby applies to the Committee of Adjustment for the City of Hamilton under Section 45 of the *Planning Act*, R.S.O. 1990, Chapter P.13 for relief, as described in this application, from the Zoning By-law.

1, 2	NAME	MAILING ADDRESS
Registered Owners(s)		
Applicant(s)*		
Agent or Solicitor		

**Note:** Unless otherwise requested all communications will be sent to the agent, if any.

3. Names and addresses of any mortgagees, holders of charges or other encumbrances:

n/a
-----

**Additional sheets can be submitted if there is not sufficient room to answer the following questions. Additional sheets must be clearly labelled**

4. Nature and extent of relief applied for:

To permit a reduce landscape area of 43% whereas the bylaw requires 50%  
To permit a reduce parking space width of 2.5m whereas the bylaw requires 2.7m

Second Dwelling Unit       Reconstruction of Existing Dwelling

5. Why it is not possible to comply with the provisions of the By-law?

Existing site conditions

6. Legal description and Address of subject lands (registered plan number and lot number or other legal description and where applicable, **street and street number**):

625 Upper Horning Rd, Hamilton

7. PREVIOUS USE OF PROPERTY

Residential       Industrial       Commercial

Agricultural       Vacant

Other \_\_\_\_\_

8.1 If Industrial or Commercial, specify use \_\_\_\_\_

8.2 Has the grading of the subject land been changed by adding earth or other material, i.e. has filling occurred?

Yes       No       Unknown

8.3 Has a gas station been located on the subject land or adjacent lands at any time?

Yes       No       Unknown

8.4 Has there been petroleum or other fuel stored on the subject land or adjacent lands?

Yes       No       Unknown

8.5 Are there or have there ever been underground storage tanks or buried waste on the subject land or adjacent lands?

Yes       No       Unknown

8.6 Have the lands or adjacent lands ever been used as an agricultural operation where cyanide products may have been used as pesticides and/or sewage sludge was applied to the lands?

Yes       No       Unknown

8.7 Have the lands or adjacent lands ever been used as a weapon firing range?

Yes       No       Unknown

8.8 Is the nearest boundary line of the application within 500 metres (1,640 feet) of the fill area of an operational/non-operational landfill or dump?

Yes       No       Unknown

8.9 If there are existing or previously existing buildings, are there any building materials remaining on site which are potentially hazardous to public health (eg. asbestos, PCB's)?

Yes       No       Unknown

8.10 Is there any reason to believe the subject land may have been contaminated by former uses on the site or adjacent sites?  
Yes  No  Unknown

8.11 What information did you use to determine the answers to 8.1 to 8.10 above?  

Existing residential use

8.12 If previous use of property is industrial or commercial or if YES to any of 8.2 to 8.10, a previous use inventory showing all former uses of the subject land, or if appropriate, the land adjacent to the subject land, is needed.

Is the previous use inventory attached? Yes  No

**9. ACKNOWLEDGEMENT CLAUSE**

I acknowledge that the City of Hamilton is not responsible for the identification and remediation of contamination on the property which is the subject of this Application – by reason of its approval to this Application.

04/01/22  
Date

1519751 ONTARIO INC. PER: *[Signature]*  
Signature Property Owner(s)  
TIMOTHY KELLY  
Print Name of Owner(s)

10. Dimensions of lands affected:  
Frontage 9.14m  
Depth 30.48m  
Area 278.70sqm  
Width of street unknown

11. Particulars of all buildings and structures on or proposed for the subject lands: (Specify ground floor area, gross floor area, number of stories, width, length, height, etc.)

Existing:  

See Site plan

Proposed  

See site plan

12. Location of all buildings and structures on or proposed for the subject lands; (Specify distance from side, rear and front lot lines)

Existing:  

See site plan

Proposed:  

See site plan

13. Date of acquisition of subject lands:  
unknown
- 
14. Date of construction of all buildings and structures on subject lands:  
unknown
- 
15. Existing uses of the subject property (single family, duplex, retail, factory etc.):  
single family
- 
16. Existing uses of abutting properties (single family, duplex, retail, factory etc.):  
single family
- 
17. Length of time the existing uses of the subject property have continued:  
unknown
- 
18. Municipal services available: (check the appropriate space or spaces)  
Water yes Connected yes  
Sanitary Sewer yes Connected yes  
Storm Sewers yes
19. Present Official Plan/Secondary Plan provisions applying to the land:
20. Present Restricted Area By-law (Zoning By-law) provisions applying to the land:  

D - One and Two Family Dwellings
21. Has the owner previously applied for relief in respect of the subject property? (Zoning By-law Amendment or Minor Variance)  
 Yes  No  
If yes, please provide the file number:
- 21.1 If a site-specific zoning by-law amendment has been received for the subject property, has the two-year anniversary of the by-law being passed expired?  
 Yes  No
- 21.2 If the answer is no, the decision of Council, or Director of Planning and Chief Planner that the application for Minor Variance is allowed must be included. Failure to do so may result in an application not being "received" for processing.
22. Is the subject property the subject of a current application for consent under Section 53 of the *Planning Act*?  
 Yes  No
23. Additional Information (please include separate sheet if needed)
24. The applicant shall attach to each copy of this application a plan showing the dimensions of the subject lands and of all abutting lands and showing the location, size and type of all buildings and structures on the subject and abutting lands, and where required by the Committee of Adjustment such plan shall be signed by an Ontario Land Surveyor.