

## Section IV – Plan Examination/Fire Prevention Branches Submission

**Building Design Summary**      **PROJECT:** \_\_\_\_\_

### General Information:

1. This form **MUST** be fully completed, including the seals of the respective design professionals, and attached to the submission. When necessary, additional analyses shall be provided and included with this Submission.
2. All references in Building Design Summary refer to the Manitoba Building Code.
3. Please indicate all items that are not applicable.
4. For partial (foundation) permit, for Part 3 section of form, only boxed areas must be completed with the initial submission.

**The City will not begin processing the permit application until the following information is provided:**

### 1. ARCHITECTURAL DESIGN SUMMARY

#### 1.1 Fire Protection, Occupant Safety and Accessibility (MBC Part 3 – Division B)

##### MBC Section 3.1 – General

- a. Major occupancy classification (3.1.2): \_\_\_\_\_  
*(Note: for multi-use/storey buildings, more than one major occupancy classification may be necessary)*
- b. Other intended occupancy group(s): \_\_\_\_\_  
\_\_\_\_\_
- c. Building Area(s): (square metres) *(note: for additions, both new and existing areas must be included):*  
\_\_\_\_\_
- d. Building Height: (Number of storeys) \_\_\_\_\_ Facing number of streets: \_\_\_\_\_
- e. Building is sprinklered  Yes  No
- f. Firewall(s): \_\_\_\_\_ hr Fire Separation      Location (grid line) \_\_\_\_\_
- g. High Building (3.2.6)  Yes  No      If Yes, additional analysis included *(check)*
- h. Alternative Solution(s):  Yes  No      If yes, see attachment
- i. Design Occupant Load(s) (3.1.17): *(specify occupant loads for various spaces when applicable)*  
\_\_\_\_\_  
\_\_\_\_\_

##### MBC Section 3.2 – Building Fire Safety

#### 3.2.2 – Building Size and Construction Relative to Occupancy

- a. Construction article(s) *(select from articles 3.2.2.20 to 3.2.2.88)*  
\_\_\_\_\_  
\_\_\_\_\_  
*(Note: for multi-use, multi-storey buildings, more than one classification or construction article may be necessary)*
- b. Construction:  Non-combustible    OR     Non-combustible or combustible construction, used singly or in combination
- c. Floor assembly above basement (see 3.2.1.4 & 3.2.1.5) \_\_\_\_\_ (hr) fire separation (FS)
- d. Crawl space (see 3.2.2.9) \_\_\_\_\_
- e. Other floor assemblies \_\_\_\_\_ (hr) FS
- f. Mezzanine assemblies \_\_\_\_\_ (hr) fire-resistance rating (FRR)
- g. Roof assembly \_\_\_\_\_ (hr) FRR
- h. Roof assembly (see 3.1.14.2) \_\_\_\_\_
- i. Load bearing beams and columns \_\_\_\_\_ (hr) FRR
- j. Fire blocks (attic - 3.1.11.5, crawl space - 3.1.11.6) \_\_\_\_\_

**1. ARCHITECTURAL DESIGN SUMMARY cont'd.**

**3.2.3 – Spatial Separation [Note: See Tables 3.2.3.1. A to E and Sentences 3.2.3.7.(1) & (2)]**

**North Wall**

- a. Limiting distance (LD) = \_\_\_\_\_ metres; Exposing building face (EBF) = \_\_\_\_\_ sq m (area)
- b. Unprotected openings (allowable) \_\_\_\_\_ % (specify) > unprotected openings (actual) \_\_\_\_\_ % (specify)
- c. FRR = \_\_\_\_\_ (hr) Construction: non-combustible  combustible  Cladding: non-combustible  combustible

**South Wall**

- a. Limiting distance (LD) = \_\_\_\_\_ metres; Exposing building face (EBF) = \_\_\_\_\_ sq m (area)
- b. Unprotected openings (allowable) \_\_\_\_\_ % (specify) > unprotected openings (actual) \_\_\_\_\_ % (specify)
- c. FRR = \_\_\_\_\_ (hr) Construction: non-combustible  combustible  Cladding: non-combustible  combustible

**East Wall**

- a. Limiting distance (LD) = \_\_\_\_\_ metres; Exposing building face (EBF) = \_\_\_\_\_ sq m (area)
- b. Unprotected openings (allowable) \_\_\_\_\_ % (specify) > unprotected openings (actual) \_\_\_\_\_ % (specify)
- c. FRR = \_\_\_\_\_ (hr) Construction: non-combustible  combustible  Cladding: non-combustible  combustible

**West Wall**

- a. Limiting distance (LD) = \_\_\_\_\_ metres; Exposing building face = \_\_\_\_\_ sq m (area)
- b. Unprotected openings (allowable) \_\_\_\_\_ % (specify) > unprotected openings (actual) \_\_\_\_\_ % (specify)
- c. FRR = \_\_\_\_\_ (hr) Construction: non-combustible  combustible  Cladding: non-combustible  combustible

Supplementary calculations attached  Yes

**3.2.8 – Mezzanines and Opening through Floor Assemblies**

*(Note : Mezzanine(s) – Sentence 3.2.8.2.(1) and see also Sentences 3.2.1.1.(3) to (7)*

- |  | <b>Yes</b>               | <b>N/A</b>               |
|--|--------------------------|--------------------------|
| a. Open mezzanine (max. 40%).  | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Enclosed mezzanine (max. 10%).  | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Interconnected floor space — (Sentence 3.2.8.2.(6).)  | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Interconnected floor space — (Articles 3.2.8.3 to 3.2.8.9)<br><i>Note : See 3.4.3.2.(6) – Exits from Interconnected Floor space</i> | <input type="checkbox"/> | <input type="checkbox"/> |

**MBC Section 3.3 – Safety within Floor Areas**

- a. Suite separation (3.3.1.1) \_\_\_\_\_ (hr) FS
- b. Major occupancy separation (Table 3.1.3.1) \_\_\_\_\_ (hr) FS
- c. Public corridor separations (3.3.1.4) \_\_\_\_\_ (hr) FS
- d. Dead-end corridor [3.3.1.9.(7)] – Maximum 6 m \_\_\_\_\_ (m)
- e. Suite egress (3.3.1.5) – No. of egress doors \_\_\_\_\_
- f. Transparent /glass doors and partitions \_\_\_\_\_
- g. Guards \_\_\_\_\_
- h. Janitor's room (3.3.1.21) \_\_\_\_\_ (hr) FS
- i. Common laundry rooms (3.3.1.22) \_\_\_\_\_ (hr) FS
- j. Welding and cutting rooms ( 3.3.1.25) \_\_\_\_\_ (hr) FS
- k. Repair garage (3.3.5.5) 2 hr FS  Yes  N/A
- l. Storage garage (3.3.5.6) 1.5 hr FS  Yes  N/A

**1. ARCHITECTURAL DESIGN SUMMARY cont'd.**

- m. Storage of dangerous goods (3.3.6)  Yes  N/A
- n. Flammable and combustible liquids  Yes  N/A
- o. Other hazardous processes  Yes  N/A
- p. Additional occupancy requirements (see Subsections 3.3.2 to 3.3.6) – (specify)

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**MBC Section 3.4 – Exits**

- a. Minimum two exits [3.4.2.1.(1)] required. Number of exits provided \_\_\_\_\_ (specify number)
- b. Mezzanine exits/egress stairs (3.4.2.2) \_\_\_\_\_
- c. Distance between exits (3.4.2.3) = \_\_\_\_\_ m > 1/2 Diagonal \_\_\_\_\_ m
- d. Travel distance (3.4.2.5) = \_\_\_\_\_ m
- e. Exit (3.4.4.1) \_\_\_\_\_ (hr) FS

- f. Exit lobby (3.4.4.2) \_\_\_\_\_ (hr) FS
- g. Exit capacity (3.4.3.2) – stair (width) \_\_\_\_\_ mm capacity: \_\_\_\_\_ mm/person
- h. Number of persons/exit: \_\_\_\_\_
- i. Exit capacity (3.4.3.2) – door (width) \_\_\_\_\_ mm capacity: \_\_\_\_\_ mm/person
- j. Number of persons/exit: \_\_\_\_\_
- k. Horizontal exit (3.4.1.6 and 3.4.6.10).  Yes  No
- l. Exit schematic provided (optional)  Yes  No
- m. Additional information: \_\_\_\_\_

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**MBC Section 3.5 – Vertical Transportation**

- a. Elevator shaft (3.5.3.1) \_\_\_\_\_ (hr) FS
- b. Elevator machine room (3.5.3.3) \_\_\_\_\_ (hr) FS
- c. Elevator size (3.5.4.1) - see appendix A \_\_\_\_\_ mm X \_\_\_\_\_ mm

**MBC Section 3.6 – Vertical Service Space**

- a. Service (furnace) room (3.6.2.1) \_\_\_\_\_ (hr) FS
- b. Service (other) room(s) (3.6.2.1) \_\_\_\_\_ (hr) FS
- c. Incinerator room(s) (3.6.2.4) \_\_\_\_\_ (hr) FS
- d. Refuse (garbage) storage room(s) (3.6.2.5) \_\_\_\_\_ (hr) FS

**MBC Section 3.7 – Washrooms Fixtures** (See Subsection 3.7.2 and Tables 3.7.2.2 A to C)

- a. Residential occupancy – 1 washroom/suite  Yes  N/A
- b. Occupant load/sex = \_\_\_\_\_ /2 = \_\_\_\_\_ /sex
- c. Female: Water closet: Number required = \_\_\_\_\_ Number Provided = \_\_\_\_\_
- d. Lavatory: Number required = \_\_\_\_\_ Number Provided = \_\_\_\_\_
- e. Male: Water closet: Number required = \_\_\_\_\_ Number Provided = \_\_\_\_\_
- f. Lavatory: Number required = \_\_\_\_\_ Number Provided = \_\_\_\_\_

**1. ARCHITECTURAL DESIGN SUMMARY cont'd.**

**MBC Section 3.8 – Barrier- Free Design**

- a. Barrier-free protection (3.3.1.7) – (specify type) \_\_\_\_\_ or  N/A
- b. Barrier-free path of travel provided throughout the building (3.8.2.1)  Yes
- c. Barrier-free access to upper floor(s) by elevator (3.8.2.1)  Yes  N/A
- d. Barrier-free washrooms are provided (3.8.2.3)  Yes
- e. Public entrance doors equipped with power door operators [3.8.3.3.(5)]  Yes  N/A

**Building Code Electrical Life Safety Systems**

- a. 3.2.4 – Fire Alarm and Detection Systems: Fire alarm is required  Yes  No
- b. 3.2.7 – Emergency Lighting: Emergency lighting is required  Yes  No
- c. 3.4.5 – Exit Signs: Exit signage is required.  Yes  No

**Fire Paramedic Service – Fire Prevention Branch – MBC/MFC**

**3.2.5 – Provisions for Fire Fighting**

- a. Access for fire fighting provided to basement, above grade storeys, roof  Yes  No
- b. Access routes provided for firefighters vehicles, including turnaround  Yes  No
- c. Location of hydrants indicated.  Yes  No
- d. Standpipe system is required (see 3.2.5.8 and Table 3.2.5.8.)  Yes  No
- e. Sprinkler system fire department connections indicated  Yes  No
- f. Standpipe system fire department connection indicated.  Yes  No
- g. Other conditions \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**1. 2 Environmental Separation (MBC Part 5)**

**MBC Section 5.3 – Heat Transfer**

- a. Placement and types of primary insulation layers in environmental separations (Describe) \_\_\_\_\_  
\_\_\_\_\_

**MBC Section 5.4 – Air Leakage**

- a. Air-barrier systems utilized (Describe) \_\_\_\_\_  
\_\_\_\_\_

**MBC Section 5.5 – Vapour Diffusion**

- a. Vapour barrier materials used and location (Describe) \_\_\_\_\_  
\_\_\_\_\_

**MBC Section 5.6 – Precipitation**

- a. Roofing and flashing systems (Describe) \_\_\_\_\_  
\_\_\_\_\_

b. Drainage and disposal systems (Describe) \_\_\_\_\_  
\_\_\_\_\_

**MBC Section 5.7 – Surface Water**

a. Methods used to control surface water (Describe) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**MBC Section 5.8 – Moisture in the Ground**

a. Methods used to control moisture in the ground (describe) \_\_\_\_\_  
\_\_\_\_\_

b. Penetration of service elements \_\_\_\_\_  
\_\_\_\_\_

c. Methods used to accommodate penetrations by windows, doors, electrical services, mechanical services, etc.  
(Describe) \_\_\_\_\_  
\_\_\_\_\_

**MBC Section 5.9 – Sound Transmission (for dwelling units)**

a. Walls \_\_\_\_\_  
\_\_\_\_\_

b. Floors \_\_\_\_\_  
\_\_\_\_\_

**Professional Certificate**

**This certificate is both applicable and limited to the scope of work defined in the plans and drawings under my seal and signature.**

In submitting sealed plans for demolition or construction associated with this project, I am making the following statements:

- I am an architect or engineer entitled to practice as such in the Province of Manitoba and am competent to design and review the plans submitted under my seal.
- I am aware that the City of Winnipeg will rely upon the plans signed and sealed by me and upon this certificate, and will not conduct any plan examination or plan inspection of the plans except by way of possible screening for completeness or audit for code compliance, as they relate to the current editions of the Manitoba Energy Code for Buildings (MECB), the Canadian Electrical Code – Part I, as adopted and varied by the Winnipeg Electric Bylaw, and the following provisions of the Manitoba Building Code (MBC), Division B:
  - Section 3.7 – Health Requirements
  - Section 3.8 – Barrier-Free Design
  - Part 5 – Environmental Separation
  - Article 6.2.2.1. – General ventilation requirements
  - Part 7 – Plumbing Services
- I recognize that, if the City becomes aware that the attached plans are not complete or fail to comply with the Winnipeg Electrical By-law or the Winnipeg Building By-law, which includes the applicable edition of the Manitoba Building Code, the Manitoba Energy Code for Buildings, the Manitoba Fire Code, and the Manitoba Plumbing Code, the City may provide this information to the Manitoba Association of Architects (MAA) or the Association of Professional Engineers and Geoscientists of Manitoba (APEGM) by way of a complaint or otherwise.
- I understand that any negligence, misrepresentation or falsification of facts contained in this certificate or in the plans under my seal may result in a finding of legal liability against me. I understand that the City of Winnipeg does not accept responsibility for any errors and omissions in the sealed plans.
- I further understand that the City of Winnipeg recommends that I periodically review my professional liability exposures, including those posed by potential third party claims, and that I carry an appropriate level of insurance. I understand that this review should include this specific project, including the building's occupancy type and classification, value, size and complexity, the extent of my professional involvement with it, and the City of Winnipeg's reliance on my certificate.
- NOTE: PERIODIC REVIEWS. The architect or engineer submitting the drawings must complete (or have a suitably qualified person reporting to him or her complete) periodic reviews of the project at appropriate stages of construction, and must be prepared at the completion of the work to sign and seal a letter of certification on the project, unless the architect or engineer
  - a. obtains written acknowledgement by the City that Manitoba Building Code Division C - 2.2.2.3. and 2.2.7.2., the Winnipeg Electrical By-law Subrule 2-000(1) and the Winnipeg Building By-law 4555/87 subsection 5.1 do not apply to the project, and
  - b. indicates on his or her drawings that he/she does not intend to be involved in construction reviews

Please note: The fact that the City has acknowledged that periodic reviews are not required for its purposes does not relieve the professional from any construction reviews that may be required by professional regulatory bodies or client contracts.

By affixing my seal, I am representing that:

- I am fully aware of the provisions of the Manitoba Building Code, the Manitoba Energy Code for Buildings, the Manitoba Fire Code and the Manitoba Plumbing Code that are applicable to these plans and drawings;
- I have applied a professional standard of care to ensure compliance of these plans and drawings with the applicable provisions of these Codes.

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***Affix seal with signature and date***