

Guide to the Completion of the OAA Building Code Data Matrices

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Summary

This attachment is for the version of PT.03 which references OBC 2024 and came into effect on January 1, 2025.

A building code data matrix presents pertinent selected elements from a detailed code analysis to provide an overview of the key code factors of the building design to municipal building officials and others. The data matrices developed by the OAA are templates that are intended to be modified as needed to adequately present the key building code decisions made in the design of a building.

Following is guidance for completing information for each type of matrix for Parts 2, 3, 9, 10 or 11. Refer also to general information regarding Suggested Procedures in Practice Tip PT.03.

If there is insufficient space in a matrix for any information, insert additional rows or list the information in a separate table identifying which item it relates to, and cross-reference to the additional information. Where more space is provided than is needed, hide or delete the unnecessary rows.

Where using the MS Excel templates (which are available only to OAA members), refer to additional information in the “Read Me First” tab of the Excel workbook. Where using the MS Word template versions with MS Word for the Mac, the functional check-boxes may not appear, or may not function properly due to differences in the software implementation on the two platforms.

Guides

The sections of the guide are organized by OBC Part. Part 3 is presented first. It contains an explanation for each Part 3 item. This is followed by Part 9, Part 10, Part 11, and Part 2. These sections of the guide include only information on items that differ from the Part 3 matrix template. For any items not described in these subsequent individual sections, refer to the information for the completion of a Part 3 matrix. These abbreviated sections were created to avoid unnecessary duplication. The sections are set in order of expected frequency of use.

References

Practice Tip PT.03 Building Code Data Matrices

Practice Tip PT.35 OBC - Importance Category and Seismic Restraint

Part 3:

General Information

Enter the name of the practice, office address and contact person.

Enter the name of the project with a brief identifying description (e.g. Lester Pearson Elementary School) and the official address/location of the project.

Enter the date the information entered in the form was last updated.

3.00 Building Code Version

Confirm the building code and version to which the project is designed by noting the regulation for the issued building code and the last code amendment regulation.

3.01 Project Type

Identify the Project type as either New Construction, Addition, Renovation, Addition and Renovation, or Change of Use. Provide a brief description of the project: (e.g. construction of two-storey addition to the east face)

3.02 Major Occupancy Classification

Identify each of the major occupancy group in the building and describe their use. (e.g. D - Business and Personal Services / Medical Clinic). Refer to OBC 3.1.2. and to Appendix A to the building code for multiple major occupancies. Refer also to Hazard Index tables 11.2.1.1.B – 11.2.1.1.N in Part 11 of the building code and A-3.1.2.1 (1) of Appendix A to the building code for assistance in determining or classifying major occupancies.

3.03 Superimposed Major Occupancies

Indicate if the building is designed with superimposed major occupancies. If Yes, provide a brief description. (e.g. Three stories of Group C – Residential, superimposed over one storey of Group E - Retail).

3.04 Building Area

Indicate the building area for existing and new portions of the building and provide a total. Provide a simple description of the areas (e.g. existing building, east addition). If a portion of the building is to be demolished, enter in the Existing column only that portion which is to remain, such that the total of the new and existing is the area of the final project. Refer to building code definitions for building area and gross floor area.

3.05 Gross Floor Area

Indicate the gross floor area for existing and new portions of the building and provide a total. Provide a simple description of the areas (e.g. existing building, east addition). If a portion of the building is to be demolished, enter in the Existing column only that portion which is to remain, such that the total of the new and existing is the gross floor area of the final project. Refer to OBC definitions for building area and gross floor area.

3.06 Mezzanine Area

Note whether there are mezzanines, how many, where and their areas. Provide a simple description of the areas (e.g. existing building, east addition). If a portion of a mezzanine is to be demolished, enter in the Existing column only that portion which is to remain, such that the total of the new and existing is the area of the final mezzanine. Refer to OBC definitions for mezzanine. If there are no mezzanines, enter N/A.

3.07 Building Height

Enter the number of storeys above and below grade, and the building height as defined.

3.08 High Building

Check the appropriate “Yes” or “No” box in regard to whether the building is a high building as defined.

3.09 Number of Streets / Firefighter Access.

Enter number of streets and fire access routes.

3.10 Building Classification

Identify the classification of the building according to 3.2.2. Building Size and Construction Relative to Occupancy. A building may have different major occupancies but it is generally given one classification with the most restrictive occupancy governing. However, superimposed occupancies may be separately classified. List occupancies in the same order as in 3.02.

3.11 Sprinkler System, 3.12 Standpipe System, 3.13 Fire Alarm Systems and 3.14 Water Service/Supply

Obtain information from engineers and check the appropriate boxes.

3.15 Construction Type

Identify the project construction restrictions (“combustible permitted”, “non-combustible required”, “encapsulated mass timber”) (refer to Building Classification).

Indicate the actual construction (“combustible”, “non-combustible”, “combustible & non-combustible in combination”, “encapsulated mass timber”, “encapsulated mass timber & non-combustible in combination”) and whether heavy timber construction is used.

3.16 Importance Category

Check the appropriate box for Importance Category and refer to PT.35 Importance Category and Seismic Restraint for completion of this section of the building code data matrix. Obtain information as required from a structural and geotechnical engineer.

3.17 Seismic Category

If using the workbook, take advantage of the Seismic Supplement tab. Pertinent information from this tab appears on the Part 3 tab.

Provide the seismic category, calculated in accordance with Part 4. In order to establish the seismic category, obtain information on the importance factor for earthquake loads and effects (based on the importance category) and the 5% spectral response acceleration values for the relevant periods. Identify the use of seismic isolation and supplemental energy dissipation systems. Identify if seismic design is required for elements of structures, non-structural components, and equipment.

3.18 Occupant Load

Provide design information as to the occupancy and occupant load per floor area and the method of calculation. Note whether the design requires a posted occupant load limit.

3.19 Barrier-free Design

Identify if the building requires barrier-free design, and if not, state the reason for the exception. State the number of barrier-free entrances and provide an explanation if needed.

3.20 Hazardous Substances

Check appropriate box in regard to hazardous substances to be found in connection with any of the occupancies in the project.

3.21 Required Fire Resistance Ratings

Enter in the spaces provided, the fire resistance rating required for horizontal assemblies (e.g. floors, roofs and mezzanines), as well as the supporting members for these.

Indicate where non-combustible construction is used in lieu of ratings (where permitted). Note that the fire resistance ratings required may change for different major occupancies.

If the table in the matrix will not accommodate all the information, prepare a separate table and/or schematic plan and cross reference accordingly.

Indicate the listed design numbers (e.g. ULC, cUL, MMAH SB-2) for the horizontal assemblies and their supporting members in an appropriate location in the construction documents, such as a building assemblies schedule where the designations can be more readily associated with a location or construction type.

3.22 Spatial Separation

Provide the spatial separation information in the appropriate columns for each building face/compartments as applicable. Provide a description of the exposing building face (e.g. "West Elevation", "North Wall, Fire Compartment 1") and identify them on the drawings using the same terminology.

Provide the area of unprotected openings, required fire resistance rating, construction type ("combustible permitted", "non-combustible required", "encapsulated mass timber") and cladding type ("combustible permitted", "non-combustible required").

3.23 Plumbing Fixture Requirements

Provide design information as to the occupancy, occupant load male/female ratio, and water closets required and provided.

Add plumbing fixture calculations either on the same drawing sheet as the matrix or separately, confirming that the number of plumbing fixtures provided is not less than required by the occupant loads for the various occupancies. It may be necessary to provide a breakdown of the various occupancies in order to provide the required information with clarity. Adapt the matrix to clearly describe the project.

Where there is an occupancy change under Part 11, Section 3.7 applies and may require an adjustment of the required number of plumbing fixtures due to the change in occupancy or specific use within an occupancy.

Account appropriately for any barrier-free requirements and unisex or universal washrooms.

3.24 Energy Efficiency

State the Compliance Path utilized in the design and indicate both the Climatic Zone and design degree days below 18 C.

3.25 Sound Transmission Design

Indicate whether there is more than 1 dwelling unit in the building, and if so, which compliance option was chosen.

3.26 Alternative Solutions

Identify any alternative solutions relied on for the design, and enter other related information including references to reports or studies that, in your professional judgment, will assist in acceptance of the alternative solution.

3.27 Notes

Identify any other information that, in your professional judgment, will assist in expediting issuance of the building permit.

Part 9 – Housing and Small Buildings:

This section of the Guide includes only information that differs from a Part 3 matrix. For any items in this matrix not described below refer to the information for completion of a Part 3 matrix.

9.13 Post-disaster Building

Indicate if the building is a Post-disaster building. If Yes, refer to Practice Tip PT 35.

9.20 Energy Efficiency

Indicate “Residential” or “Non-Residential” as the Energy Efficiency category.

Indicate the appropriate compliance option for “Residential” or “Non-residential” categories.

The Project Design Conditions section is used to indicate Climatic Zone, Fenestration, Skylights, Space Heating Fuel, Heating Equipment Efficiency, Other Conditions and Compliance Package selected.

Provide supporting information/documentation to support compliance path as required.

9.22 Bracing to Resist Lateral Loads Due to Wind and Earthquake

Indicate the relevant value for the hourly wind pressure at the project location. Indicate the relevant value for the seismic spectral acceleration value at the project location. Indicate “Yes” for the applicable requirements based on an assessment of Table A-9.23.13; either the prescriptive design/bracing requirements in Part 9, design in accordance with Part 4, or good engineering practice in CWC 2014.

If the design, or portions thereof, do not conform to the prescriptive design requirements in Part 9, then confirm which design requirements are applicable, whether in accordance with Part 4 (e.g. design sealed by a qualified structural engineer) or within the good engineering practice such as that provided in the CWC 2014 guide.

Part 10 – Change of Use:

This section includes only information that differs from a Part 3 matrix. For any items in this matrix not described below, refer to the information for completion of a Part 3 matrix.

10.06 Building Size

Indicate the size of the building as Small, Medium, Large, or >Large. Refer to the notes at the end of the hazard index tables 11.2.1.1.B-N. Note that building size definition varies for different occupancies.

10.07 Existing Building Classification

Indicate if there is a change in the major occupancy of the building or portion thereof being renovated.

If there is a change in the major occupancy, then classify the building according to its construction index [1-8] and hazard index [1-7].

As required, indicate the construction index of the building based on its type of construction and fire-resistance ratings.

As required, indicate the hazard index of the building based on its occupancy and size. Building height is required in order to classify the “size” of the building and consequently determine its hazard index.

Indicate the importance category of the building [“Low”, “Normal”, “High”, “Post-Disaster”]. For “Low” and “High” categories, provide further explanation for their classification (e.g. “low human occupancy” or “explosive substances”).

10.09 Reduction in Performance Level

Identify if there is any reduction in performance level of any system or portion of the building. Obtain necessary information regarding structural, plumbing, and sewage systems from the relevant consultants.

If there is a reduction, provide a brief explanation in the subsequent rows. E.g. “Increase in occupant load of >15% [OBC 11.4.2.2.(1)]”.

10.10 Compliance Alternatives Proposed

Identify if any compliance alternatives are proposed.

If Yes, identify the numbers from the appropriate compliance alternative tables [OBC T11.5.1.1.A-F] and provide a brief description.

Part 11 – Renovation:

This section includes only information that differs from a Part 3 matrix. For any items in this matrix not described below refer to the information for completion of a Part 3 matrix.

Information has been added to address the requirements for the new Group G major Occupancy and to add applicable references to clauses in Part 2.

11.07 Building Size

Indicate the size of the building as Small, Medium, Large, >Large. Refer to the notes at the end of the hazard index tables 11.2.1.1.B-N. Note that building size definition varies for different occupancies.

11.08 Existing Building Classification

Indicate if there is a change in the major occupancy of the building or portion thereof being renovated.

If there is a change in the major occupancy, then classify the building according to its construction index [1-8] and hazard index [1-7].

As required, indicate the construction index of the building based on its type of construction and fire-resistance ratings.

As required, indicate the hazard index of the building based on its occupancy and size. Building height is required in order to classify the “size” of the building and consequently determine its hazard index.

Indicate the importance category of the building [“Low”, “Normal”, “High”, “Post-Disaster”]. For “Low” and “High” categories, provide further explanation for their classification (e.g. “low human occupancy” or “explosive substances”).

11.09 Renovation Type

Indicate the renovation type of the project [Basic Renovation, Extensive Renovation].

11.13 Reduction in Performance Level

Identify if there is any reduction in performance level of any system or portion of the building. Obtain necessary information regarding structural, plumbing, and sewage system from the relevant engineers.

If there is a reduction, provide a brief explanation in the subsequent rows. E.g. “Increase in occupant load of >15% [OBC 11.4.2.2.(1)]”.

11.14 Compensating Construction

Identify if compensating construction is required [Yes, No, N/A]. If Yes, provide a brief explanation in the subsequent rows. E.g. “Early warning and evacuation system to be upgraded as indicated [OBC 11.4.3.3.(1)]”.

11.15 Compliance Alternatives Proposed

Identify if any compliance alternatives are proposed [Yes, No, N/A].

If Yes, identify the numbers from the appropriate compliance alternative tables [OBC T11.5.1.1.A-F] and provide a brief description.

Part 2:

This section of the Guide includes only information that differs from a Part 3 matrix. For any items in this matrix not described below refer to the information for completion of a Part 3 matrix.

Some items listed in Part 2 are required in Part 3, but not currently in Part 2. These items are noted as “Reserved”. The numbering of the items is retained to maintain consistency with the Part 3 numbering. This will facilitate integrating the Part 2 matrix with the Part 3 matrix should there be multiple occupancies or if the “Reserved” items are added to Part 2 in the future.

2.00 Applicable Code

In addition to the building code version used, identify whether OBC Part 2 or the National Farm Building Code of Canada applies to the project. The OAA has not developed a data matrix for the National Farm Building Code.

2.01 Project Type

Space has been added for a description of the project type. Identify which of the listed parameters are included in the project: housing of livestock, liquid manure below-floor storage, structural design to SB-11, hazardous extraction operation involving cannabis, and controlled atmosphere storage areas. These parameters determine which portions of Part 2 apply to the project.

2.02 Major Occupancy Classification

How occupancies other than Group G are accounted for is determined by their aggregate area. There is a check box to declare whether the aggregate area is 10% or less.

2.17 Seismic Category

If using the workbook, take advantage of the Seismic Supplement tab. Pertinent information from this tab appears on the Part 2 tab.

Review the code exception for determining the seismic category in Part 2, otherwise determine the seismic category in accordance with Part 4. Review the application of the exception in Part 2 to assign a Site Class without a geotechnical investigation report. Identify the use of seismic isolation and supplemental energy dissipation systems.

The OAA does not provide legal, insurance, or accounting advice. Readers are advised to consult their own legal, accounting, or insurance representatives to obtain suitable professional advice in those regards.

practice tip; pt; pt.03; attachment 1; guide, data; matrix; matrices; OBC; building code

Name of Practice:

Enter address and contact information here.

Name of Project:

Enter name here.

Location:

Enter address here.

Date:

Enter date here.



2024 Ontario Building Code Data Matrix Part 3 – Fire Protection, Occupant Safety and Accessibility				Building Code Reference ¹																								
3.00	Building Code Version:	<u>O. Reg. 163/24</u> Last Amendment <u>O. Reg. 447/24</u>																										
3.01	Project Type:	<input type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Renovation <input type="checkbox"/> Change of use <input type="checkbox"/> Addition and renovation Description: _____		[A] 1.3.3.2.																								
3.02	Major Occupancy Classification:	<table border="0"> <thead> <tr> <th><u>Occupancy</u></th> <th><u>Use</u></th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </tbody> </table>	<u>Occupancy</u>	<u>Use</u>	_____	_____	_____	_____	_____	_____		3.1.2.																
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3.03	Superimposed Major Occupancies:	<input type="checkbox"/> No <input type="checkbox"/> Yes Description: _____		3.2.2.7.																								
3.04	Building Area (m ²)	<table border="0"> <thead> <tr> <th><u>Description:</u></th> <th><u>Existing</u></th> <th><u>New</u></th> <th><u>Total</u></th> </tr> </thead> <tbody> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td style="text-align: right;">Total</td><td>0</td><td>0</td><td>0</td></tr> </tbody> </table> <i>Insert additional lines as needed</i>	<u>Description:</u>	<u>Existing</u>	<u>New</u>	<u>Total</u>	_____	0	0	0	_____	0	0	0	_____	0	0	0	_____	0	0	0	Total	0	0	0		[A] 1.4.1.2.
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3.05	Gross Area (m ²)	<table border="0"> <thead> <tr> <th><u>Description:</u></th> <th><u>Existing</u></th> <th><u>New</u></th> <th><u>Total</u></th> </tr> </thead> <tbody> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>_____</td><td>0</td><td>0</td><td>0</td></tr> <tr><td style="text-align: right;">Total</td><td>0</td><td>0</td><td>0</td></tr> </tbody> </table> <i>Insert additional lines as needed</i>	<u>Description:</u>	<u>Existing</u>	<u>New</u>	<u>Total</u>	_____	0	0	0	_____	0	0	0	_____	0	0	0	_____	0	0	0	Total	0	0	0		[A] 1.4.1.2.
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3.06	Mezzanine Area (m ²)	<u>Description:</u> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;"></td> <td style="text-align: center;"><u>Existing</u></td> <td style="text-align: center;"><u>New</u></td> <td style="text-align: center;"><u>Total</u></td> </tr> <tr> <td>_____</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>_____</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>_____</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>_____</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> <p style="text-align: center; font-size: small;"><i>Insert additional lines as needed</i></p>		<u>Existing</u>	<u>New</u>	<u>Total</u>	_____	0	0	0	_____	0	0	0	_____	0	0	0	_____	0	0	0	Total	0	0	0	3.2.1.1.
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3.07	Building Height	<u>0</u> Storeys above grade <u>0</u> (m) Above grade <u>0</u> Storeys below grade	[A] 1.4.1.2. & 3.2.1.1.																								
3.08	High Building	<input type="checkbox"/> No <input type="checkbox"/> Yes	3.2.6.																								
3.09	Number of Streets/ Firefighter access	<u>0</u> street(s)	3.2.2.10. & 3.2.5.																								
3.10	Building Classification: (Size & Construction Relative to Occupancy)	3.2.2. _____ Group/Div _____	3.2.2.20 - 93.																								
3.11	Sprinkler System	<input type="checkbox"/> Required <input type="checkbox"/> Not Required <u>Provided:</u> <input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> none <u>Description:</u> _____	3.2.1.5. & 3.2.2.18., 21., 22., 29., 3.2.4.1., 3.2.4.9., 3.2.4.15., and 3.2.5.12. to 14.																								
3.12	Standpipe System	<input type="checkbox"/> Not required <input type="checkbox"/> Required	3.2.5.8 - 11.																								
3.13	Fire Alarm System	<input type="checkbox"/> Required <input type="checkbox"/> Not required <u>Type Provided:</u> <input type="checkbox"/> Single stage <input type="checkbox"/> Two stage <input type="checkbox"/> None	3.2.4.																								
3.14	Water Service / Supply is Adequate	<input type="checkbox"/> No <input type="checkbox"/> Yes	3.2.5.7.																								
3.15	Construction Type:	<u>Restriction:</u> <input type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required <input type="checkbox"/> Encapsulated mass timber permitted <u>Actual:</u> <input type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible <input type="checkbox"/> Combination of combustible and non-combustible <input type="checkbox"/> Encapsulated mass timber <input type="checkbox"/> Combination of encapsulated mass timber and non-combustible <u>Heavy Timber Construction:</u> <input type="checkbox"/> No <input type="checkbox"/> Yes	3.2.2.20.- 93. & 3.1.6. 3.1.4.6., 7., 3.2.2.16.																								

3.16	Importance Category:	<input type="checkbox"/> Low <input type="checkbox"/> Low human occupancy <input type="checkbox"/> Post-disaster shelter <input type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Minor storage building <input type="checkbox"/> Explosive or hazardous substances <input type="checkbox"/> Post-disaster	4.1.2.1.(3) & T4.1.2.1.																									
3.17	Seismic Category:	Seismic Category: _____ Site Class: _____ Seismic design for Table 4.1.8.18. items 6 to 22: <input type="checkbox"/> Required <input type="checkbox"/> Not Required Reasons: _____	4.1.8.4.(1) T-4.1.8.5.-B 4.1.8.18.																									
3.18	Occupant Load	<table border="1"> <thead> <tr> <th data-bbox="516 548 727 625"><u>Floor Level/Area</u></th> <th data-bbox="727 548 889 625"><u>Occupancy Type</u></th> <th data-bbox="889 548 1019 625"><u>Based On</u></th> <th data-bbox="1019 548 1149 646"><u>Occupant Load (Persons)</u></th> <th data-bbox="1149 548 1284 646"><u>Posted Limit Required</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: center;">0</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: center;">0</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: center;">0</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: center;">0</td> <td>_____</td> </tr> </tbody> </table> <i>Insert additional lines as needed</i>	<u>Floor Level/Area</u>	<u>Occupancy Type</u>	<u>Based On</u>	<u>Occupant Load (Persons)</u>	<u>Posted Limit Required</u>	_____	_____	_____	0	_____	_____	_____	_____	0	_____	_____	_____	_____	0	_____	_____	_____	_____	0	_____	3.1.17.
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3.19	Barrier-free Design:	<input type="checkbox"/> Yes <input type="checkbox"/> No <u>Explanation</u> _____	3.8.																									

	Barrier-free Entrances:	Number _____ <u>Explanation</u>	3.8.1.2.
3.20	Hazardous Substances:	<input type="checkbox"/> Yes <u>Explanation</u> <input type="checkbox"/> No	3.3.1.2.,

3.21	Required Fire Resistance Ratings	<table border="0"> <tr> <td><u>Horizontal Assembly</u></td> <td><u>Rating (H)</u></td> <td><u>Supporting Assembly (H)</u></td> <td><u>Noncombustible in lieu of rating?</u></td> </tr> <tr> <td>Storeys below grade</td> <td>_____ 0 _____</td> <td>_____ 0 _____</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A</td> </tr> <tr> <td>Floors over basement</td> <td>_____ 0 _____</td> <td>_____ 0 _____</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A</td> </tr> <tr> <td>Floors</td> <td>_____ 0 _____</td> <td>_____ 0 _____</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A</td> </tr> <tr> <td>Mezzanine</td> <td>_____ 0 _____</td> <td>_____ 0 _____</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A</td> </tr> <tr> <td>Roof</td> <td>_____ 0 _____</td> <td>_____ 0 _____</td> <td><input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A</td> </tr> </table>	<u>Horizontal Assembly</u>	<u>Rating (H)</u>	<u>Supporting Assembly (H)</u>	<u>Noncombustible in lieu of rating?</u>	Storeys below grade	_____ 0 _____	_____ 0 _____	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A	Floors over basement	_____ 0 _____	_____ 0 _____	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A	Floors	_____ 0 _____	_____ 0 _____	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A	Mezzanine	_____ 0 _____	_____ 0 _____	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A	Roof	_____ 0 _____	_____ 0 _____	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A	3.2.2.20 - 93, 3.2.1.2, 3.2.1.4., 3.2.2.15., 3.3.2.1.											
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<u>Exposing Building Face</u>	<u>EBF Area (m²)</u>	<u>L.D. (m)</u>	<u>L/H or H/L</u>	<u>Required FRR (H)</u>	<u>% Unprotected Openings Permitted</u>	<u>% Unprotected Openings Provided</u>																																
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Name of Practice:

Enter address and contact information here.

Name of Project:

Enter name here.

Location:

Enter address here.

Date:

Enter address here.



2024 Ontario Building Code Data Matrix Part 9 – Housing and Small Buildings				Building Code Reference ¹		
9.00	Building Code Version:	<u>O. Reg. 163/24</u>	Last Amendment	<u>O. Reg. 447/24</u>		
9.01	Project Type:	<input type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Renovation <input type="checkbox"/> Change of use <input type="checkbox"/> Addition and renovation Description: _____			[A] 1.3.3.3.	
9.02	Major Occupancy Classification:	Occupancy	Use	9.10.2.		
		_____	_____			
		_____	_____			
		_____	_____			
9.03	Superimposed Major Occupancies:	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A Description: _____			9.10.2.3.	
9.04	Building Area (m ²)	Description:	Existing	New	Total	[A] 1.4.1.2.
		_____	0	0	0	
		_____	0	0	0	
		_____	0	0	0	
		_____	0	0	0	
	<i>Insert additional lines as needed</i>		0	0	0	
		Total	0	0	0	

9.05	Gross Area (m ²)	Description:	Existing	New	Total	[A] 1.4.1.2.
		_____	0	0	0	
		_____	0	0	0	
		_____	0	0	0	
		_____	0	0	0	
	<i>Insert additional lines as needed</i>		0	0	0	
		Total	0	0	0	
9.06	Mezzanine Area (m ²)	Description:	Existing	New	Total	9.10.4.1.
		_____	0	0	0	
		_____	0	0	0	
		_____	0	0	0	
		_____	0	0	0	
	<i>Insert additional lines as needed</i>		0	0	0	
		Total	0	0	0	
9.07	Building Height	_____ 0 Storeys above grade	_____ 0	(m) Above grade		[A] 1.4.1.2. & 9.10.4.
		_____ 0 Storeys below grade				
9.08	Number of Streets/ Firefighter access	_____ 0 street(s)				9.10.20.
9.09	Sprinkler System	<input type="checkbox"/> Required <input type="checkbox"/> Not Required <u>Provided:</u> <input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> none <u>Description:</u> _____				9.10.8.2.-4., and 3.2.4.7.(4)
9.10	Fire Alarm System	<input type="checkbox"/> Required <input type="checkbox"/> Not required <u>Proposed:</u> <input type="checkbox"/> Single stage <input type="checkbox"/> Two stage <input type="checkbox"/> None				9.10.18.
9.11	Water Service/ Supply is Adequate	<input type="checkbox"/> No <input type="checkbox"/> Yes				9.31.3.
9.12	Construction Type:	<u>Restriction:</u> <input type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required <input type="checkbox"/> Encapsulated mass timber <u>Actual:</u> <input type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible <input type="checkbox"/> Combination of combustible and non-combustible <input type="checkbox"/> Encapsulated mass timber <input type="checkbox"/> Combination of encapsulated mass timber and non-combustible <u>Heavy Timber Construction:</u> <input type="checkbox"/> No <input type="checkbox"/> Yes				9.10.6., 3.1.5., and 3.1.4.7.

9.13	Post-disaster Building	<input type="checkbox"/> No <input type="checkbox"/> Yes	[A] 1.3.3.2. and Part 4																																			
9.14	Occupant Load	<table border="1"> <thead> <tr> <th><u>Floor Level/Area</u></th> <th><u>Occupancy Type</u></th> <th><u>Based On</u></th> <th><u>Occupant Load (Persons)</u></th> <th><u>Posted Limit Required</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>0</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>0</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>0</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>0</td> <td>_____</td> </tr> <tr> <td colspan="3" style="text-align: right;"><u>Total:</u></td> <td>_____</td> <td>_____</td> </tr> </tbody> </table> <p><i>Insert additional lines as needed</i></p>	<u>Floor Level/Area</u>	<u>Occupancy Type</u>	<u>Based On</u>	<u>Occupant Load (Persons)</u>	<u>Posted Limit Required</u>	_____	_____	_____	0	_____	_____	_____	_____	0	_____	_____	_____	_____	0	_____	_____	_____	_____	0	_____	<u>Total:</u>			_____	_____	9.9.1.3. Table 3.1.17.1.					
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9.15	Barrier-free Design:	<input type="checkbox"/> Yes Explanation _____ <input type="checkbox"/> No	9.5.2. & 3.8																																			
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9.20	Energy Efficiency:	Category: Non-residential Compliance Option: <input type="checkbox"/> SB-10 Prescriptive (Div.4) <input type="checkbox"/> SB-10 Performance (Div.2) <input type="checkbox"/> SB-10 Prescriptive (Div.2) Residential Compliance Option: <input type="checkbox"/> SB-12 Prescriptive Compliance Packages <input type="checkbox"/> SB-12 Performance Compliance <input type="checkbox"/> SB-12 Other: Energy Star for New Homes <input type="checkbox"/> EnerGuide for New Houses Project Design Conditions: Climatic Zone: _____ <table border="1"> <thead> <tr> <th><u>Fenestration</u></th> <th><u>Gross Above Grade Wall or Roof Area (m²)</u></th> <th><u>Gross Fenestration Area (m²)</u></th> <th><u>Fenestration Ratio</u></th> </tr> </thead> <tbody> <tr> <td>Vertical (W+D)</td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0%</u></td> </tr> <tr> <td>Skylights</td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0%</u></td> </tr> </tbody> </table>	<u>Fenestration</u>	<u>Gross Above Grade Wall or Roof Area (m²)</u>	<u>Gross Fenestration Area (m²)</u>	<u>Fenestration Ratio</u>	Vertical (W+D)	<u>0</u>	<u>0</u>	<u>0%</u>	Skylights	<u>0</u>	<u>0</u>	<u>0%</u>	12.2.													
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		<p>Space Heating Fuel <input type="checkbox"/> Natural Gas <input type="checkbox"/> Oil <input type="checkbox"/> Electricity</p> <p> <input type="checkbox"/> Propane <input type="checkbox"/> Solid fuel <input type="checkbox"/> Earth energy</p> <p>Heating Equipment Efficiency <input type="checkbox"/> ≥92% AFUE <input type="checkbox"/> ≥84% - <92% AFUE</p> <p>Other Conditions <input type="checkbox"/> ICF Basement <input type="checkbox"/> ICF Above Grade</p> <p> <input type="checkbox"/> Walk-out Basement <input type="checkbox"/> Slab-on-Ground</p> <p> <input type="checkbox"/> Log/Post & Beam <input type="checkbox"/> Blown-in Insulation Above Grade Wall</p> <p> <input type="checkbox"/> Spray-applied Foam Insulation Above Grade Wall <input type="checkbox"/> Drain Water Heat Recovery Unit Provided</p> <p>Compliance Package _____</p>	SB-12 T3.1.1.2.A-C T3.1.1.3.A-C
9.21	Sound Transmission Design:	<p>Is there more than 1 dwelling unit in the building? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Option Implemented: <u>Min STC rating of</u> _____</p> <p>Notes: _____</p>	5.8.1.2., 5.8.1.4., & 9.11.1.4.
9.22	Bracing to Resist Lateral Loads Due	<p>5% Seismic Spectral Acceleration, $S_a(0.2)$ _____</p> <p>1-in-50 hourly wind pressure (HWP) (kPa) _____</p> <p>Applicable Requirements: Design in accordance with: _____</p> <p>Notes: _____</p> <p>Bracing in accordance with: _____</p> <p>Notes: _____</p> <p>Construction Type by Floor Level Lowest Exterior Frame Wall Supports: _____</p> <p>2nd Level: _____</p> <p>3rd Level: _____</p> <p>Notes: _____</p>	<u>SB-1,</u> <u>Table 3</u> <u>SB-1,</u> <u>Table 2</u> T A-9.23.13 9.23.16.2., 9.27. & 9.29. 9.23.13.4. to 9.23.13.7. Part 4 Good eng. practice
9.23	Alternative Solutions <i>Insert additional lines as needed</i>	<p>_____</p> <p>_____</p> <p>_____</p>	[A] 1.2.1.1., and [C] 2.1.

9.24	Notes: <i>Insert additional lines as needed</i>	<hr/> <hr/> <hr/>	
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Name of Practice:

Enter address and contact information here.

Name of Project:

Enter name here.

Location:

Enter address here.

Date:

Enter name here.



2024 Ontario Building Code Data Matrix Part 11 – Renovation					Building Code Reference ¹	
11.00	Building Code Version:	<u>O. Reg. 163/24</u>	Last Amendment	<u>O. Reg. 447/24</u>		
11.01	Project Type:	<input type="checkbox"/> Addition <input type="checkbox"/> Renovation <input type="checkbox"/> Addition and renovation <input type="checkbox"/> Change of use Description: _____			[A] 1.3.3.3B.	
11.02	Major Occupancy Classification:	Occupancy	Use		3.1.2.1.(1), 2.1.4.1.(1), and 11.2.1.	
		_____	_____			
		_____	_____			
		_____	_____			
11.03	Superimposed Major Occupancies:	<input type="checkbox"/> No <input type="checkbox"/> Yes Description: _____			11.2, 3.2.2.5. to 3.2.2.8., and 2.2.1.	
11.04	Building Area (m ²)	Description:	Existing	New	Total	[A] 1.4.1.2., 11.2., and 11.3.
		_____	<u>0</u>	<u>0</u>	<u>0</u>	
		_____	<u>0</u>	<u>0</u>	<u>0</u>	
		_____	<u>0</u>	<u>0</u>	<u>0</u>	
		_____	<u>0</u>	<u>0</u>	<u>0</u>	
	<i>Insert additional lines as needed</i>	Total	<u>0</u>	<u>0</u>	<u>0</u>	
11.05	Building Height	<u>0</u> Storeys above grade	<u>0</u> (m) Above grade			[A] 1.4.1.2., 3.2.1.1., 2.2.2.2., and 11.3.
		<u>0</u> Storeys below grade				
11.06	Number of Streets/Firefighter Access	<u>0</u> street(s)				3.2.2.10., 3.2.5., 2.2.4.1., and 11.3.
11.07	Building Size	<input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> > Large			11.2.1.1., and T.11.2.1.1.B-N.	

11.08	Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: <u> 0 </u> Hazard Index: <u> 0 </u> Importance Category : <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster	10.1.1.2., 11.2.1.1. T 11.2.1.1.A T 11.2.1.1.B to N 4.1.2.1.(3), 2.3.1., and 5.2.2.1.(2)																									
11.09	Renovation Type:	<input type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1., and 11.3.3.2.																									
11.10	Occupant Load	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Floor Level/Area</u></th> <th style="text-align: left;"><u>Occupancy Type</u></th> <th style="text-align: left;"><u>Based On</u></th> <th style="text-align: left;"><u>Occupant Load (Persons)</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> </tr> </tbody> </table> <i>Insert additional lines as needed</i>	<u>Floor Level/Area</u>	<u>Occupancy Type</u>	<u>Based On</u>	<u>Occupant Load (Persons)</u>	_____	_____	_____	<u> 0 </u>	_____	_____	_____	<u> 0 </u>	_____	_____	_____	<u> 0 </u>	_____	_____	_____	<u> 0 </u>	3.1.17., 2.1.2.2., and 11.4.2.2.					
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11.11 a	Plumbing Fixture Requirements	Ratio: <u> M:F = 50:50 Except as otherwise noted </u> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Floor Level/Area</u></th> <th style="text-align: left;"><u>Occupant Load</u></th> <th style="text-align: left;"><u>OBC Reference</u></th> <th style="text-align: left;"><u>WCs Required</u></th> <th style="text-align: left;"><u>WCs Provided</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> </tbody> </table> <i>Insert additional lines as needed</i>	<u>Floor Level/Area</u>	<u>Occupant Load</u>	<u>OBC Reference</u>	<u>WCs Required</u>	<u>WCs Provided</u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	3.7.4., 11.3.4., 11.3.5., 11.4.2.4., and 11.4.2.5.
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11.11 b	Plumbing Fixture Requirements continued:	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Floor Level/Area (repeated)</u></th> <th style="text-align: left;"><u>Barrier-free WCs Required</u></th> <th style="text-align: left;"><u>Barrier-free WCs Provided</u></th> <th style="text-align: left;"><u>Universal Washrooms Required</u></th> <th style="text-align: left;"><u>Universal Washrooms Provided</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> <tr> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td>_____</td> <td style="text-align: right;"><u> 0 </u></td> <td style="text-align: right;"><u> 0 </u></td> </tr> </tbody> </table> <i>Insert additional lines as needed</i>	<u>Floor Level/Area (repeated)</u>	<u>Barrier-free WCs Required</u>	<u>Barrier-free WCs Provided</u>	<u>Universal Washrooms Required</u>	<u>Universal Washrooms Provided</u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	_____	<u> 0 </u>	_____	<u> 0 </u>	<u> 0 </u>	Tables 3.8.2.3.A and 3.8.2.3.B
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11.12	Barrier-free Design: Barrier-free Entrances:	<input type="checkbox"/> Yes <input type="checkbox"/> No <u> Explanation </u> Number <u> _____ </u> <u> Explanation </u>	11.3.1.2., 11.3.2., 11.3.3.2.																									

11.13	Reduction in Performance Level:	Structural: <input type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input type="checkbox"/> No <input type="checkbox"/> Yes Sewage-systems: <input type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings of combustible construction: <input type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1. 11.4.2.2. 11.4.2.3. 11.4.2.4. 11.4.2.5. 11.4.2.6.
11.14	Compensating Construction:	<input type="checkbox"/> No <input type="checkbox"/> Yes _____ Structural: <input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (Describe)</u> Increase in occupant load: <input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (Describe)</u> Change of major occupancy: <input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (Describe)</u> Plumbing: <input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (Describe)</u> Sewage systems: <input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (Describe)</u> Extension of buildings of combustible construction: <input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (Describe)</u>	11.4.3.1. 11.4.3.2. 11.4.3.3. 11.4.3.4. 11.4.3.5. 11.4.3.6. 11.4.3.7.
11.15	Compliance Alternatives Proposed: <i>Insert additional lines as needed</i>	<input type="checkbox"/> No <input type="checkbox"/> Yes <u>_____ (list numbers and describe)</u> <u>_____ (list numbers and describe)</u> <u>_____ (list numbers and describe)</u>	11.5.1.
11.16	Alternative Solutions <i>Insert additional lines as needed</i>	_____ _____ _____	[A] 1.2.1.1., and [C] 2.1.
11.17	Notes: <i>Insert additional lines as needed</i>	_____ _____ _____	

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