

## DECK PERMIT GUIDE

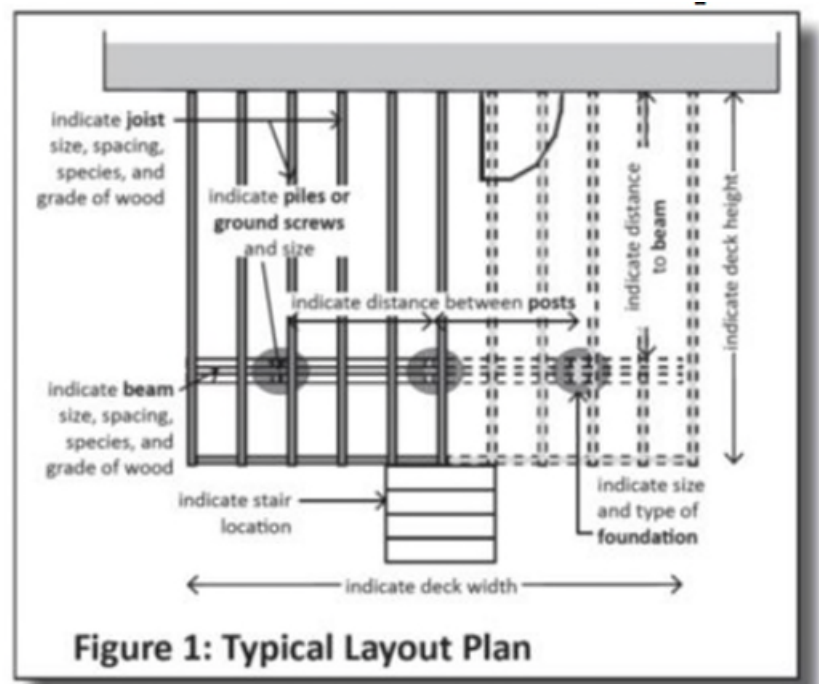
*(Taken from: Manitoba Inspection & Technical Services Guide to Attached or Detached Decks, December 9, 2020 and the National Building Code.)*

Note: This guide is intended as a reference document for applicants when submitting their application for a deck permit in the Carman Dufferin Grey Planning District. As requirements may change depending on updates to the building code, local regulations or site-specific conditions, always follow the guidance of the planning office and the building inspector.

### REQUIRED INFORMATION FOR YOUR APPLICATION

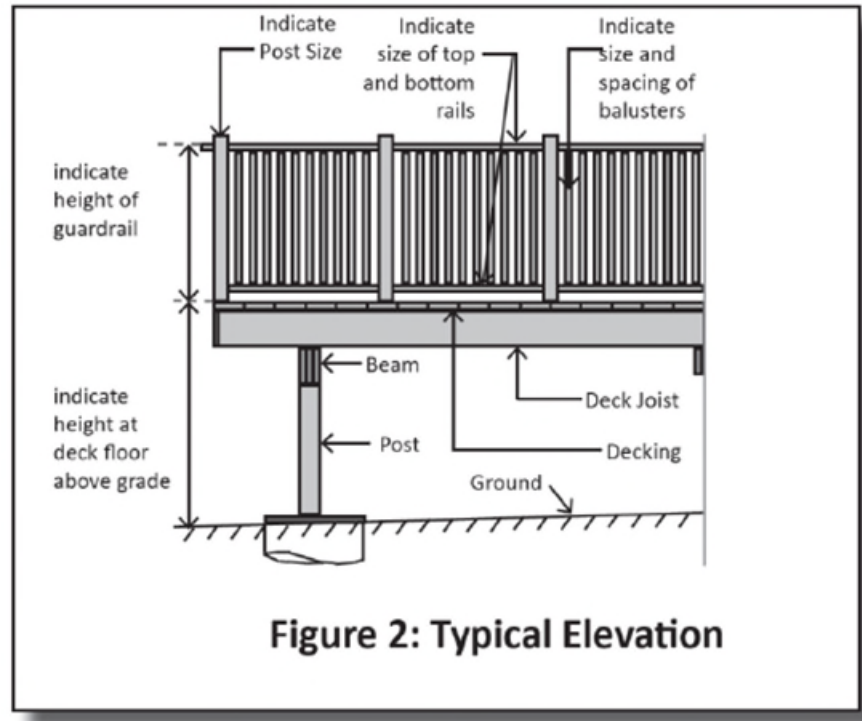
- Your **full name and contact information**
- The **full business and contact name of your contractor**, and their **contact information** (if applicable)
- A **signed owner authorization form** (if your contractor is applying for the permit on your behalf)
- Your **property address and tax roll number**
- Site plan** (map of your property, showing lot dimensions, proposed location and dimensions of your deck, dimensions of all existing structures on the property, distances from proposed deck to other structures and to property lot lines)
- Building plans for your deck**, which must show:

- The overall size of the deck, the size and spacing of the beam(s), posts and deck joists
- The species and grade of the wood being used (eg. SPF #2 means: species – spruce, grade #2)
- The type of foundation you have chosen to support the deck, the location of any stairs leading to or from the deck and the location of all doors accessing the deck.



**-Elevation plans for your deck, which must show:**

- The height of handrails and spacing of guards, height of deck above grade; and
- Verify dimensions and specifications from the layout plans.



## FOUNDATIONS

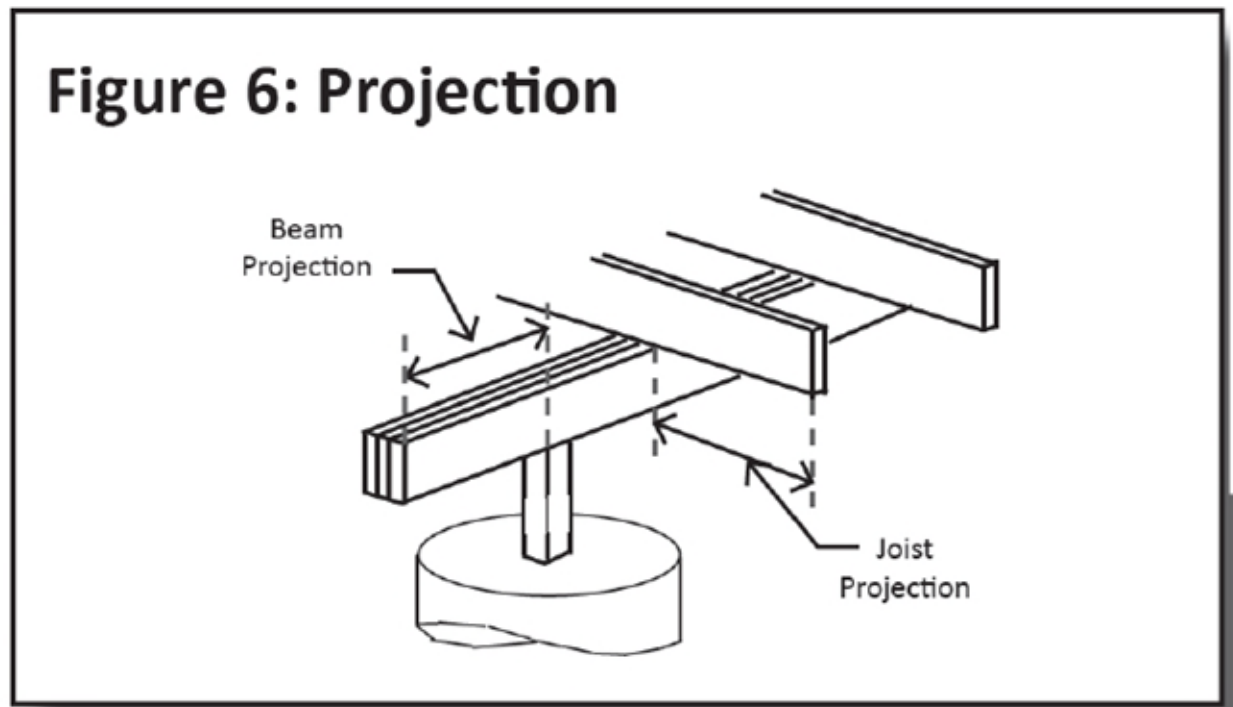
1. Surface pad foundations are only permitted when an open deck is:
  - a. Not more than one storey;
  - b. Not more than 55m<sup>2</sup> (592 ft<sup>2</sup>) in area;
  - c. Not more than 1300mm (4') in distance from finished ground to the underside of the joist;
  - d. Not supporting a roof;
  - e. Not attached to another structure, unless it can be demonstrated that differential movement will not adversely affect the performance of that structure, as determined by the authority having jurisdiction; and
  - f. Surface pads are permitted on decks attached to the house with a similar foundation. If the cottage or house has a surface foundation not protected from frost than a deck that is attached may be on surface pads.
2. Pile, pier or screw pile foundations: where surface pad foundations are not permitted (see point 1 above), the foundation depth must be at least the depth of frost penetration: 1.8m (6'). A pier, pile or screw pile foundation, or alternatively a foundation designed by a Professional Engineer is required.

## STRUCTURAL REQUIREMENTS

### How far can the joists project beyond the face of the outside beam?

If you are planning to eventually enclose all of a portion of the deck with a roofed structure which could carry snow, the Manitoba Building Code states that the joists can only project 400mm (16") where 2x8 joists are used, and 600mm (2') where 2x10 or larger joists are used.

The projection of 2x4 or 2x6 joists would require engineering analysis to determine if the floor assembly would be sufficient to carry the superimposed roof loads (see Figure 6).

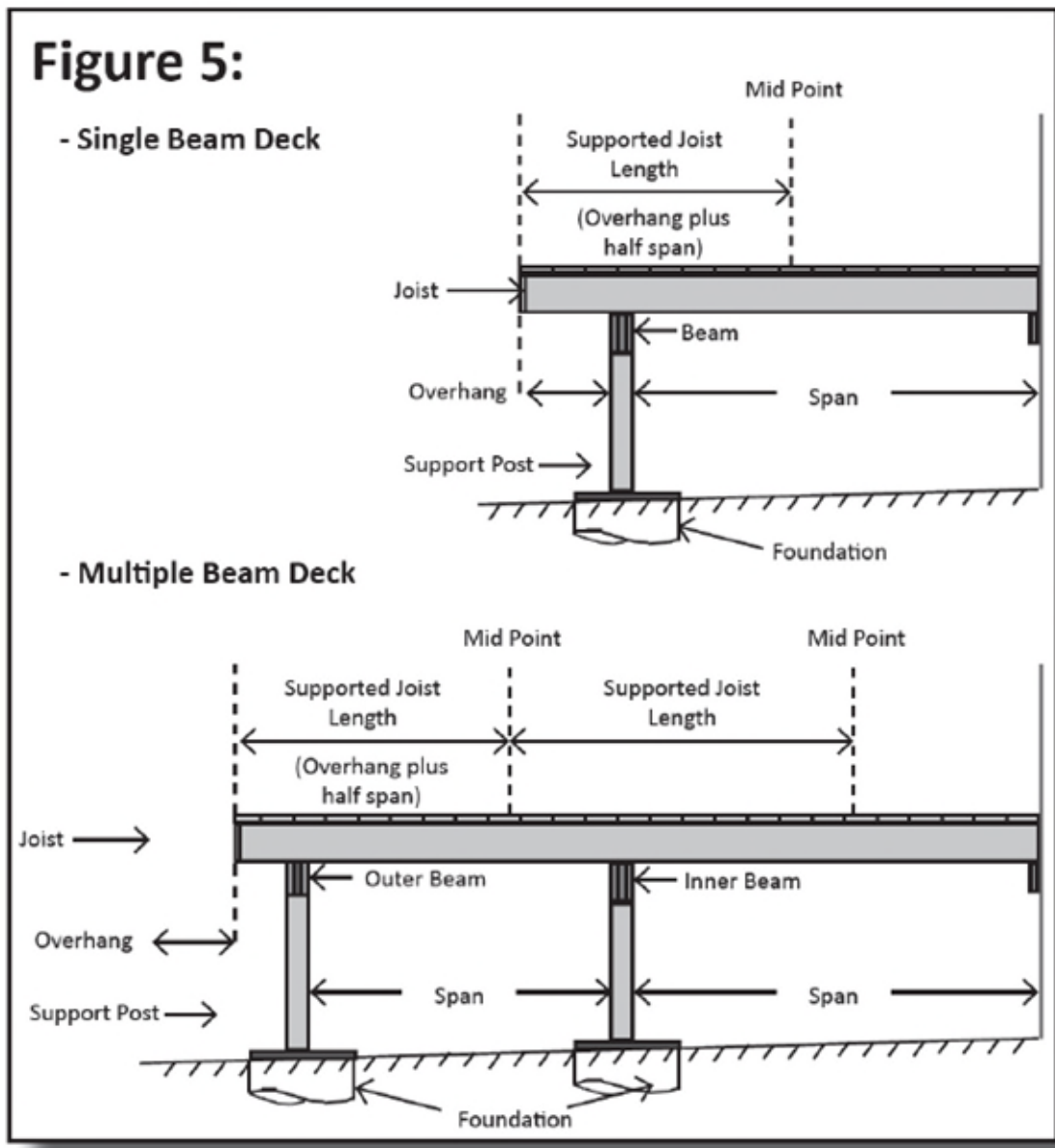


DECK JOIST SPANS			
JOIST SIZE	MAXIMUM SPAN JOINT SPACING		
	12"	16"	24"
2X6"	9' 6 <sup>15</sup> / <sub>16</sub> "	8' 10 <sup>11</sup> / <sub>16</sub> "	8' 2 <sup>1</sup> / <sub>16</sub> "
2X8"	11' 7 <sup>3</sup> / <sub>8</sub> "	11' 0 <sup>5</sup> / <sub>16</sub> "	10' 6"
2X10"	13' 8 <sup>3</sup> / <sub>16</sub> "	12' 11 <sup>7</sup> / <sub>8</sub> "	12' 4 <sup>7</sup> / <sub>16</sub> "

### What size of beams do I need?

The beam table (as shown below) is intended to assist with the measurements of intervals along the beam. See also Figure 5.

<b>BEAM SPANS</b> <b>(SPANS TAKEN BETWEEN SUPPORTING POSTS)</b>									
Supported Joist Length	3 ply 2x8	4 ply 2x8	5 ply 2x8	3 ply 2x10	4 ply 2x10	5 ply 2x10	3 ply 2x12	4 ply 2x12	5 ply 2x12
7' 10"	10'	11' 1"	11' 11"	12' 10"	14' 2"	15' 3"	14' 11"	17' 2"	18' 4"
9' 10"	9' 4"	10' 3"	11' 1"	11' 6"	13' 1"	14' 2"	13' 5"	15' 5"	17' 2"
11' 9"	8' 7"	9' 8"	10' 5"	10' 6"	12' 2"	13' 3"	12' 2"	14' 1"	15' 9"
13' 9"	8'	9' 2"	9' 10"	9' 9"	11' 3"	12' 7"	11' 4"	13' 1"	14' 7"
14' 9"	7' 5"	8' 7"	9' 5"	9' 1"	10' 6"	11' 9"	10' 7"	12' 2"	13' 8"
17' 8"	7'	8' 1"	9' 1"	8' 7"	9' 11"	11' 1"	10'	11' 6"	12' 10"
19' 8"	6' 8"	7' 8"	8' 7"	8' 2"	9' 5"	10' 6"	9' 5"	10' 11"	12' 2"



### **What size posts should I use and how should they be anchored?**

Posts, if used, should be at least the width of the beam, centered on the pad, pile or pier, and securely fastened to the beam by means of toe-nailing, wood gussets, angle brackets or other equivalent method. Posts exceeding 1.5m (5') in height should be braced to each other or up to the beam and floor or alternatively they should be anchored to the pad, pile or pier in order to prevent them from shifting at the bottom.

### **How far can I project the beam beyond the end support?**

The beam can project up to a maximum of 600mm (2') beyond the end support.

### **Are guardrails required for stairs?**

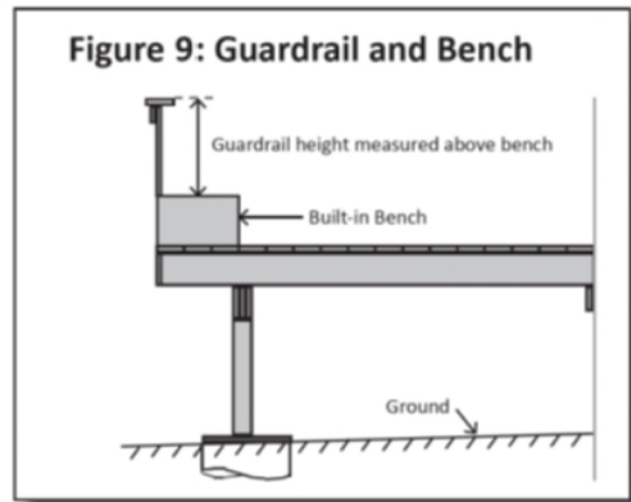
Guards are required on stairs where there is a difference in elevation of more than 600mm (2') to finished ground level. The height of guards for flights of steps shall be 900mm (3') and be measured vertically from the top of the handrail to a line drawn through the leading edge of the treads served by the guard.

### **Will my deck require guardrails?**

Guards are only required on decks that are more than 600mm (2') above finished ground level.

### **Can a built-in bench serve as a guardrail?**

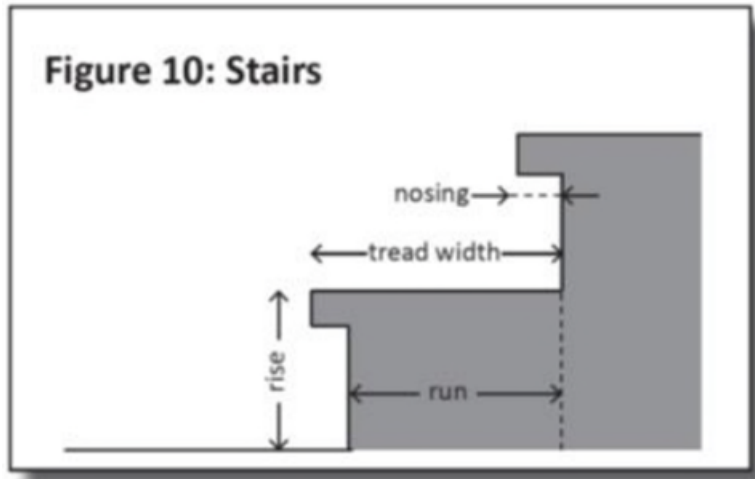
No, unless a guardrail meeting the height (36" high for decks 2-6' above finished ground level, or 42" for decks more than 6' above finished ground level) and opening requirements (4" maximum opening) is provided above the flat surface of the bench and any openings below the bench also meet the maximum opening requirements (4").



### **Are there any requirements for stairs?**

The Building Code requires stair width to be at least 900mm (36") and that treads and risers have uniform rise and run in any one flight with riser heights not exceeding 200mm (8") and not less than 125mm (5"). The Building Code also requires the minimum run of each tread to be 210mm (8.25") and the maximum to be no more than 355mm (14") and the minimum tread depth to be 235mm (9.25") and the maximum to be no more than 355mm (14").

**Figure 10: Stairs**



**For more information:**

Contact the Carman Dufferin Grey Planning District office or inspector:

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Inspector: [inspector@cdgplanning.com](mailto:inspector@cdgplanning.com)