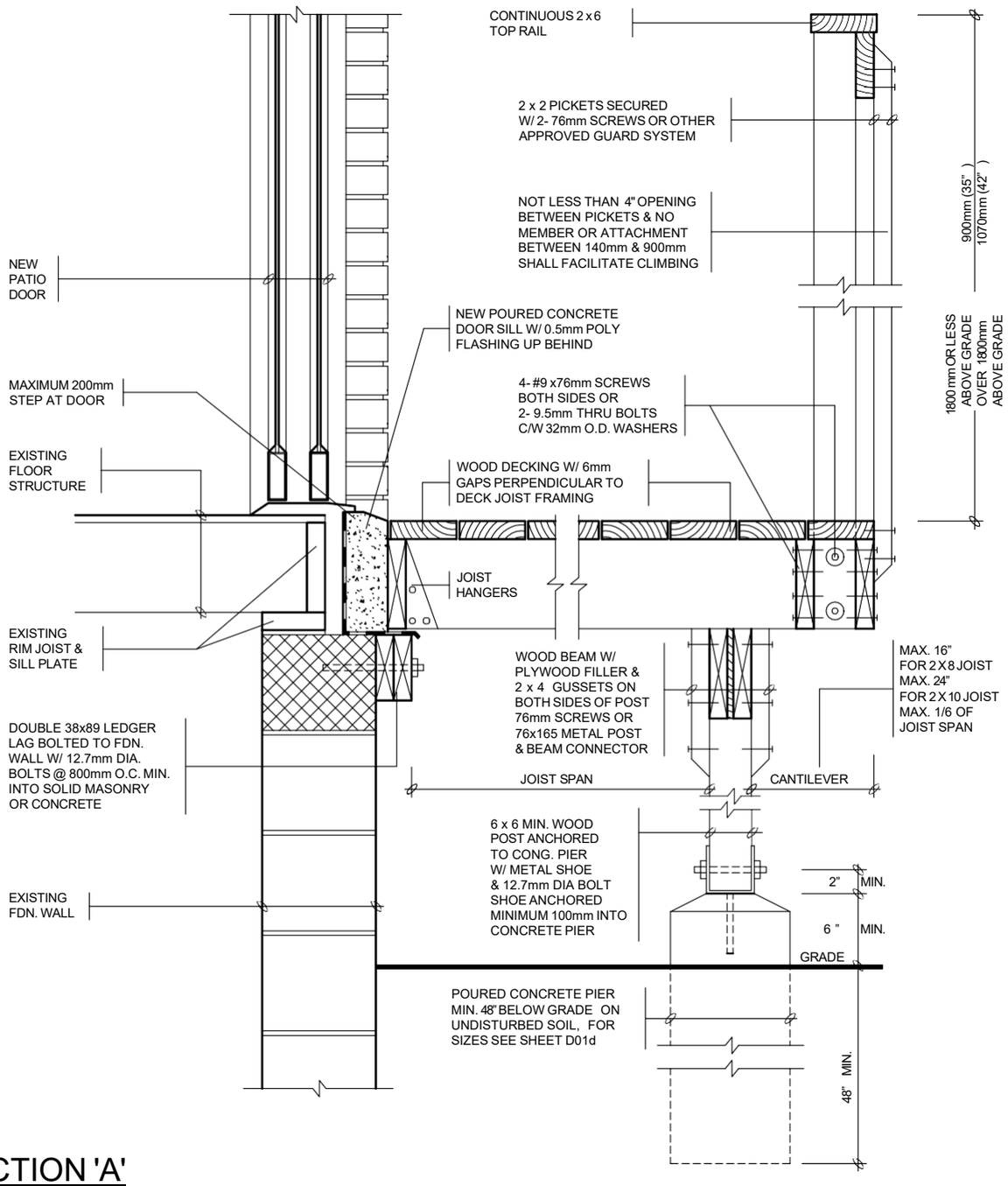

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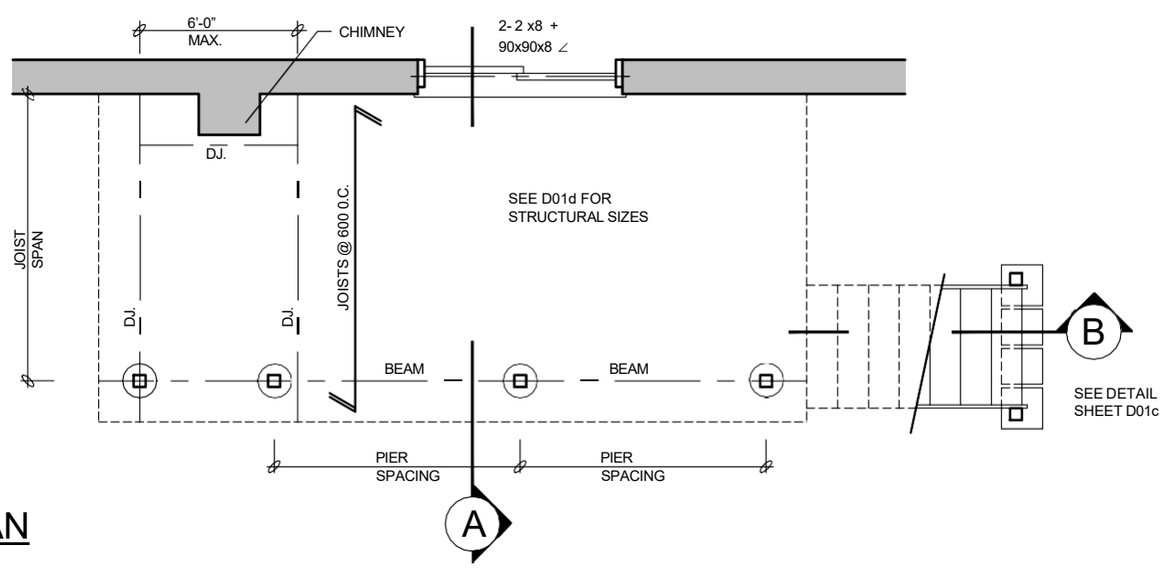
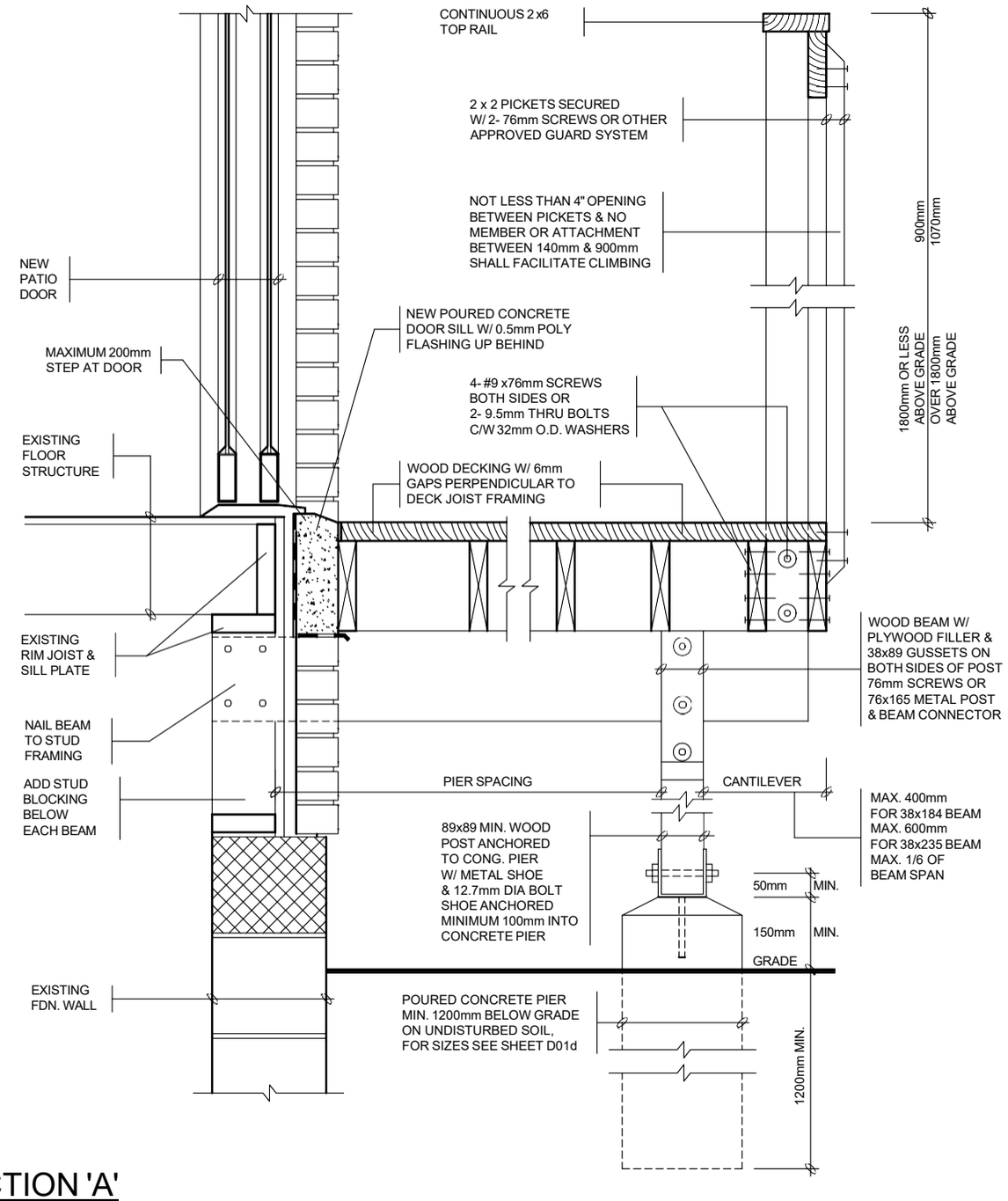


PLAN



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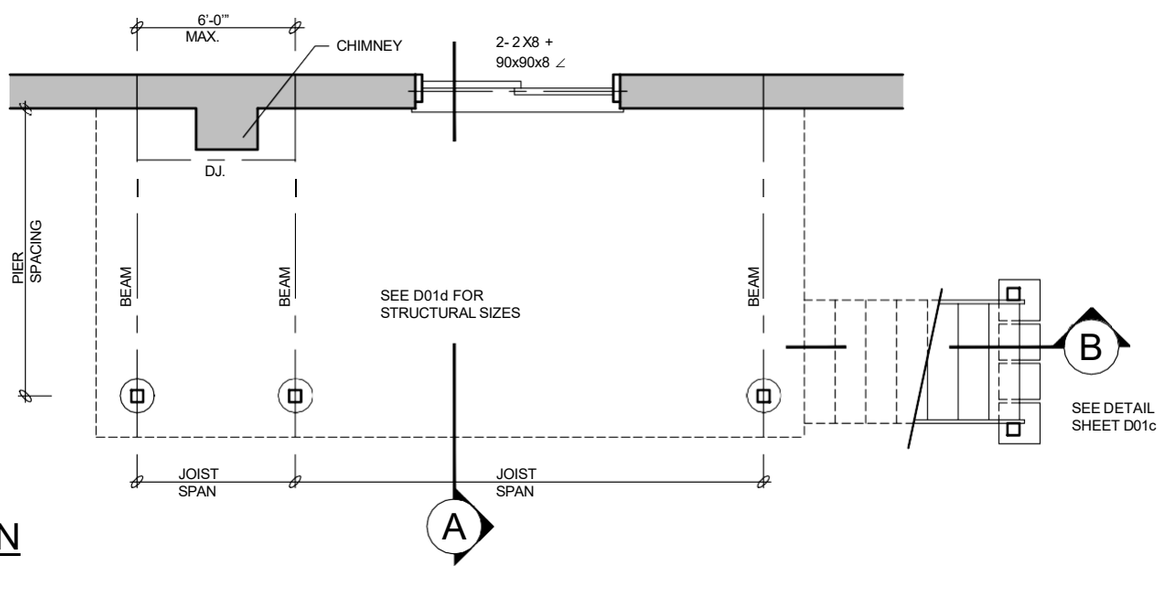

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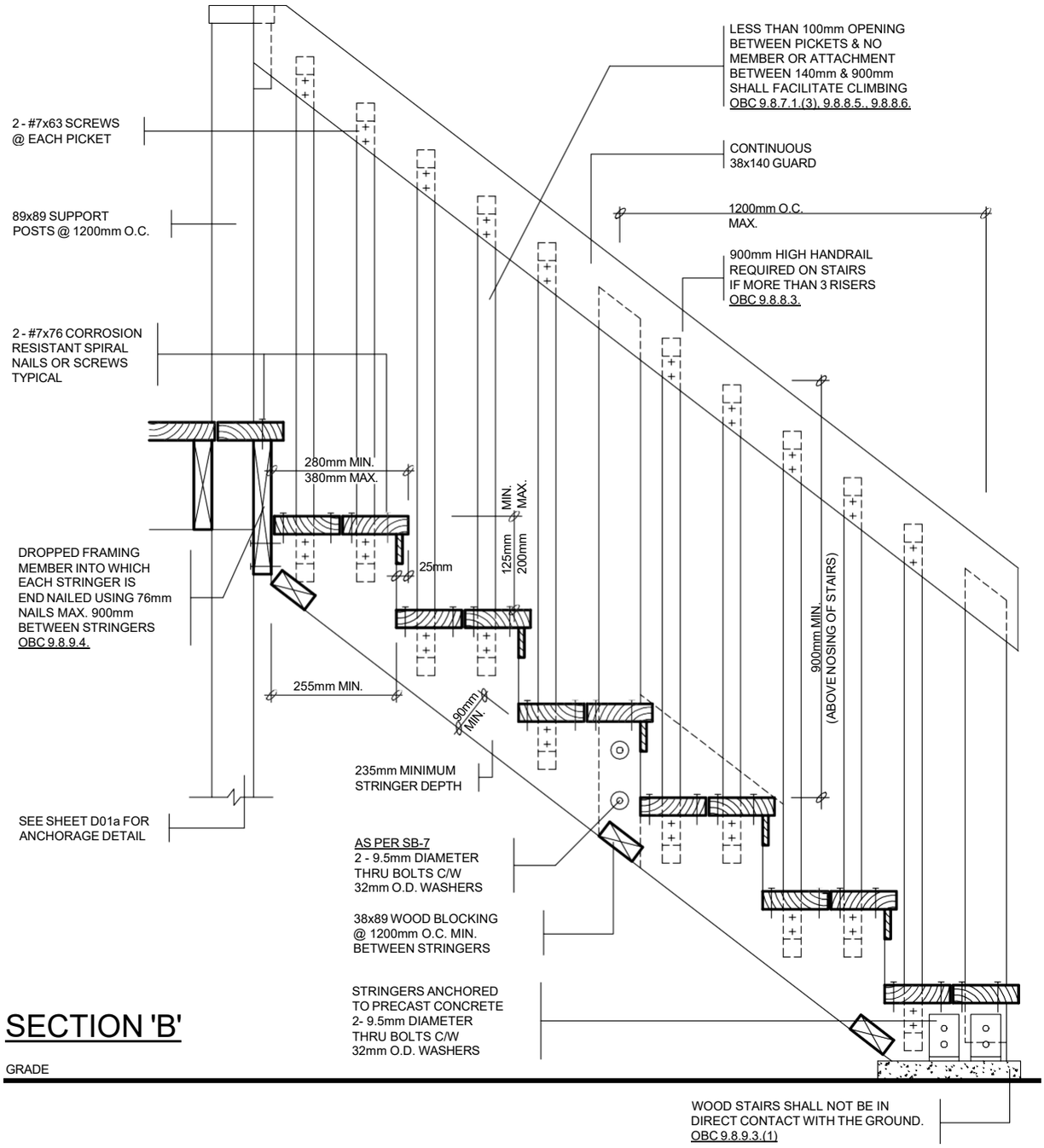
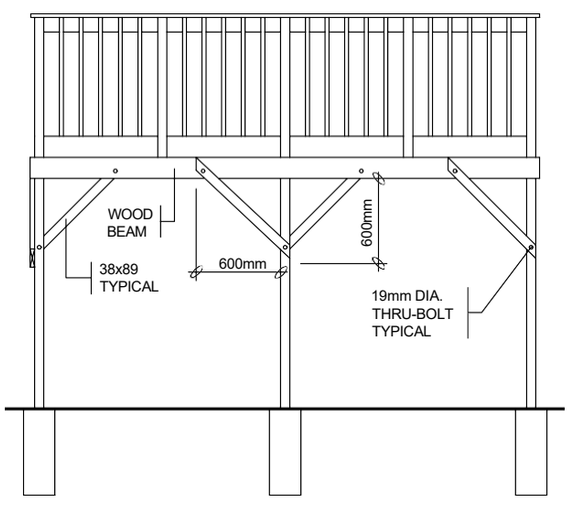
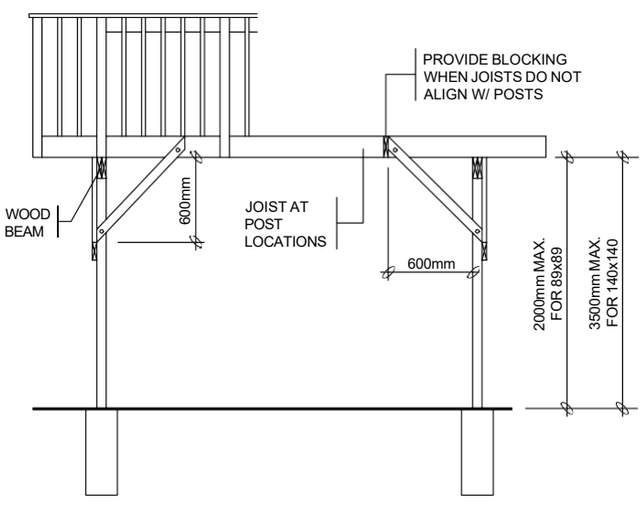




BRACING PARALLEL TO BEAM



BRACING PERPENDICULAR TO BEAM

FREE STANDING DECKS GREATER THAN 600mm ABOVE GRADE SHALL RESIST LATERAL LOADING & MOVEMENT. ALL POSTS MUST BE BRACED WHERE THE SUPPORTED AREA EXCEEDS THOSE LISTED IN THE TABLE ON D01d

Table 1: Deck Footing Sizing (Diameter in Inches)

Supported Joist Length	Deck Footing Spacing			
	6'- 0"	8'- 0"	10'- 0"	12'- 0"
6'- 0"	8"	8"	10"	10"
8'- 0"	8"	10"	10"	12"
10'- 0"	10"	10"	12"	12"
12'- 0"	10"	12"	12"	12"

Footings shall be constructed in accordance with the requirements below:

- Footings shall bear on solid ground at a minimum of 48" below grade for frost protection.
- Footings shall be deeper if solid ground is not found. **Bearing conditions must be verified by the Building Inspector prior to placement of concrete.**
- Concrete piers shall extend 6" above grade.

Table 2: Beam Sizing

Supported Joist Length	Deck Footing Spacing			
	6'-0"	8'-0"	10'-0"	12'-0"
6'-0"	2 - 2x8	2 - 2x8	3 - 2x8	3 - 2x10
8'-0"	2 - 2x8	2 - 2x8	3 - 2x8	3 - 2x10
10'-0"	2 - 2x8	3 - 2x8	3 - 2x8	3 - 2x10
12'-0"	3 - 2x8	3 - 2x8	3 - 2x10	3 - 2x10

The plies of the built-up beam shall be fastened as follows:

a) nailed together with a double row of nails not less than 3-1/2" in length, spaced not more than 18" apart in each row with the end nails located 4"-6" from the end of each piece.
b) bolted together with not less than ½" diam. bolts equipped with washers and spaced not more than 48" o.c. with the end bolts located not more than 24" from the ends of the members.

- The distance from the centreline of the fastener to the top or bottom edge of the beam shall be ½-inch minimum.
- The distance from the centreline of the fastener to the ends of the beam shall be 1-inch minimum.

Table 3: Deck Joists Size and Span

Joist Size	Joists Spacing on Centre (inches)	Maximum Span (feet)
2 x 8	12"	12'-0"
	16"	11'-0"
	24"	10'-0"
2 x 10	12"	14'-0"
	16"	13'-0"
	24"	12'-0"
2 x 12	12"	14'-0"
	16"	14'-0"

GENERAL NOTES

1. A MINIMUM LIVE LOAD OF 1.9 kPa SHALL BE APPLIED IN ALL LOCATIONS.
2. THE PRESCRIBED SNOW LOAD FOR 225 SELECTED ONTARIO LOCATIONS IS INDICATED IN COLUMN 12 OF TABLE 1.2 IN SUPPLEMENTARY GUIDELINE SB-1 OF THE ONTARIO BUILDING CODE. THE SNOW LOAD SHALL BE APPLIED AS THE MINIMUM LIVE LOAD WHERE IT IS GREATER THAN 1.9 kPa
3. A SITE PLAN OR SURVEY IS REQUIRED SHOWING AL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL EXISTING BUILDINGS & DECKS.
4. LUMBER NO. 2 SPF OR BETTER WOOD POSTS MIN. 89x89 (SOLID). USE CORROSION RESISTANT SPIRAL NAILS OR SCREWS.
5. A DECK IS NOT PERMITTED TO BE SUPPORTED ON BRICK VENEER.
6. CANTILEVERED JOISTS AND BEAMS ARE LIMITED TO 1/6 THE MEMBERS LENGTH.
7. CONCRETE PIERS SHALL BEAR ON UNDISTURBED SOIL. THE BEARING CAPACITY OF THE SOIL SHALL BE DETERMINED PRIOR TO CONSTRUCTION.
8. MAXIMUM HEIGHT REFERS TO THE HEIGHT OF THE POST FROM THE TOP OF THE PIER TO THE DECK SURFACE.
9. BEAMS WITH MORE THAN 2 MEMBERS MUST BE SUPPORTED BY 140x140 POSTS.
10. THE ALLOWABLE SOIL BEARING PRESSURE SHALL BE REDUCED BY 50% WHILE THE WATER IS AT OR NEAR THE BOTTOM OF THE FOOTING EXCAVATION.
11. CONTACT YOUR LOCAL BUILDING DEPARTMENT FOR FURTHER INFORMATION ABOUT LOCAL SOIL BEARING CAPACITIES.
12. JOISTS SPANNING MORE THAN 2100mm ARE TO HAVE BRIDGING AT LEAST EVERY 2100mm O.C.