



CITY OF BEDFORD BUILDING DEPARTMENT
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RESIDENTIAL DECK CONSTRUCTION SPECIFICATIONS

THE CITY OF BEDFORD ENFORCES THE 2013 RESIDENTIAL CODE OF OHIO (RCO)

1. All lumber used for structure framing is to be pressure treated lumber.
2. All metal fasteners, connectors or other hardware in direct contact with any preservative treated lumber shall be stainless steel type 304 or type 316 or have a galvanized coating that complies with ASTM 123 (connectors) or A153 (fasteners) Class D Standards for Fasteners and Hardware.
3. **FLOOR JOIST SPANS:** refer to RCO 502.2.1 for supporting one floor only. Refer to Table 502.3.1(2) and RCO 2.3.1(2) for allowable floor joist spans that support all areas other than sleeping and attics provided that the designed live load does not exceed 40 psf and the designed dead load does not exceed 10 psf.
4. **BEARING:** The ends of each joist beam or girder shall not have not less than 1.5 inches of bearing on wood or metal and not less than 3 inches on masonry. Floor systems having joists framing from opposite sides over bearing support shall be tied together by lapping joists a minimum of 3 inches or with a wood or metal splice, or by continuity of floor sheathing overlapping the ends of joists at least 3 inches, or by other approved methods. Face nail overlapping joists together with 3-10d nails. Joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips not less than nominal 2 inches by 2 inches or on properly sized joist hangers.
5. **FOOTER:** The footer shall be sized based upon the enclosed table. Posthole depths will be a minimum of 42" inches RCO T403.5 Exterior Deck Footing.
6. **HANDRAILS, GUARDRAILS AND STAIRS:** Guardrails (Section 312) are required where any portion of the deck is greater than 30 inches above finish grade. Handrails are required on stairs with 4 or more risers. Stairs (RCO 311.5.3) shall be a minimum of 36 inches wide. Stair treads shall be a minimum of 9 inches measured nose to nose and risers shall be a maximum of 8.25 inches in height.



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TABLE 403.5
MINIMUM FOOTING SIZE FOR DECK
FOOTINGS WITHOUT ROOF LOADS
EXTERIOR DECK AND PORCH FOOTING SIZE INCHES ^{a, b}

RCO T403.5
Exterior deck footings. Exterior deck footings of poured-in-place concrete shall be a minimum of 8 inches (203 mm) thick and extend below the frost depth per Table 301.2(1). The Diameter or width of the footing shall comply with Table 403.5.

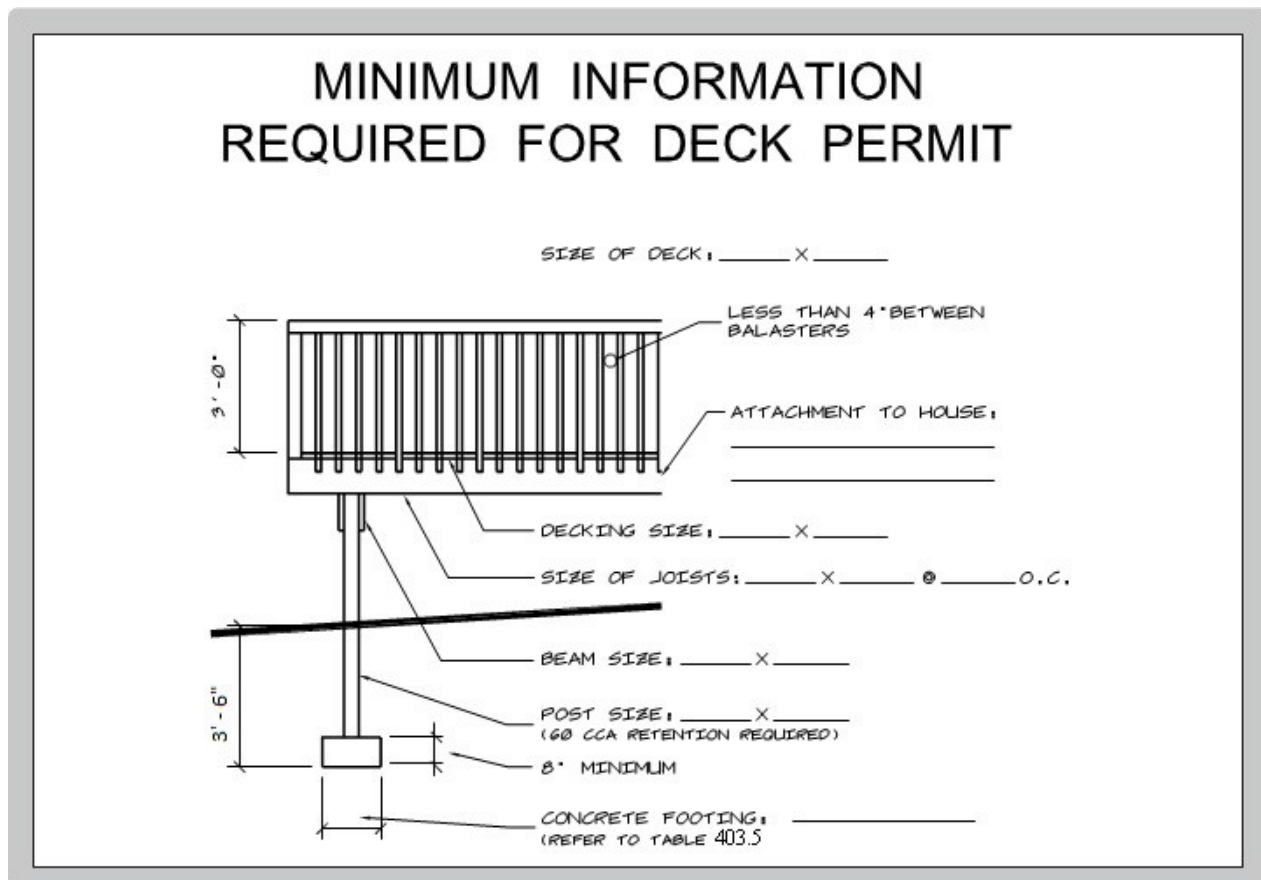
Diameter	Square	Maximum tributary area allowed per post (square feet)
8	8x8	14
10	9x9	22
12	11x11	31.6
14	13x13	42.8
16	15x15	56
18	16x16	70.8
20	18x18	87.2

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m²,

1 pound per square foot = 4.882 10 g/m²

a. Based upon 2,000 pounds per square foot soil bearing capacity.

b. Based upon 40 pounds per square foot live load and a 10 pounds per square foot dead load.

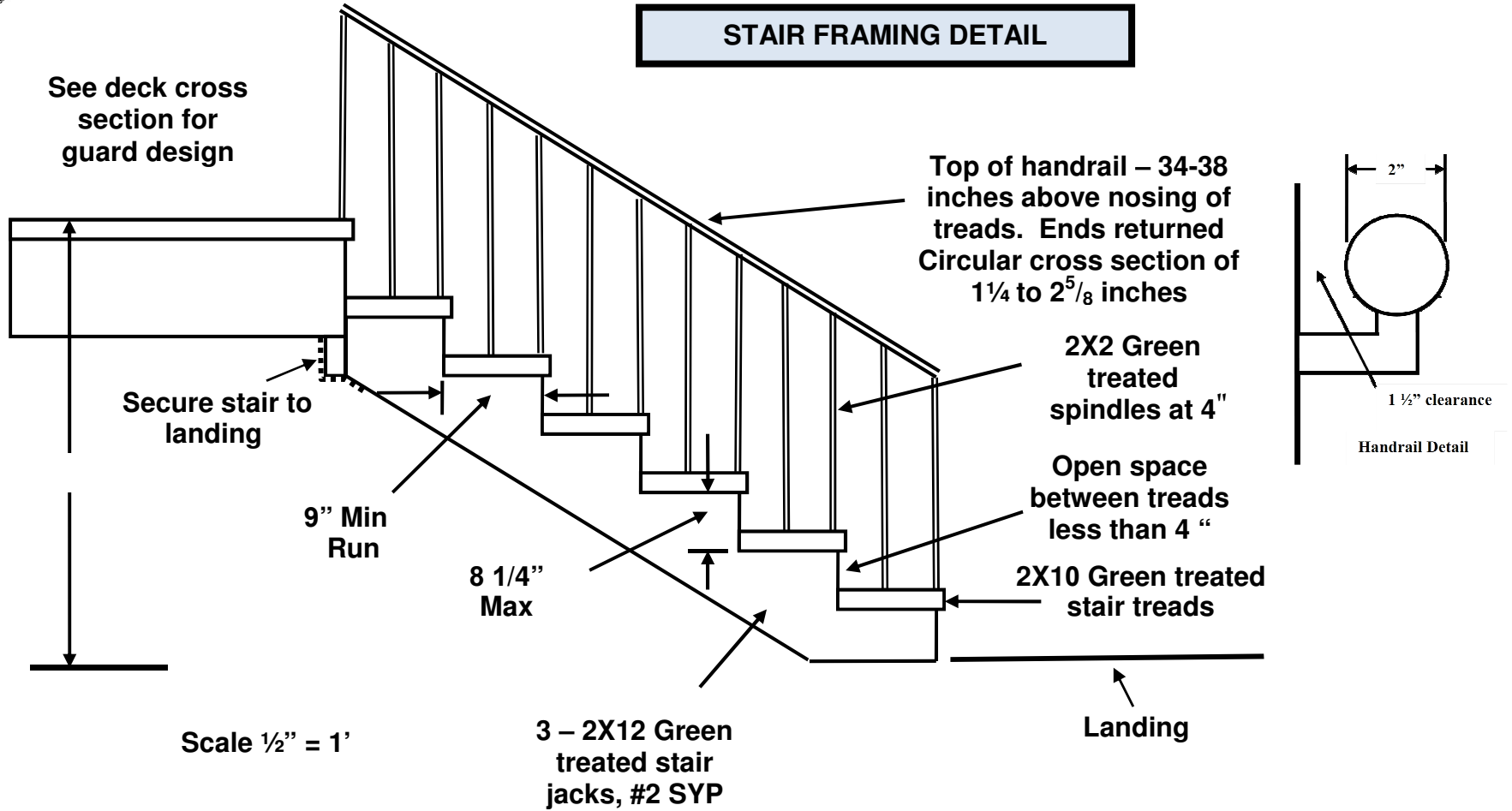




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STAIR FRAMING DETAIL



THIS ILLUSTRATION IS AN EXAMPLE ONLY. IT IS INTENDED TO BE USED AS A REFERENCE FOR ITEMS TO BE INCLUDED ON DECK PLANS. IT IS NOT INTENDED TO SHOW COMPLIANCE WITH ANY CODES. CHANGES IN THE HEIGHT, SIZE, AND SHAPE OF A DECK WILL CAUSE VARIATIONS IN CODE REQUIREMENTS.