

PLANNING BUILDING AND PUBLIC WORKS DEPARTMENT

Minimum Requirements For Decks and Patios BH-011

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MINIMUM REQUIREMENTS FOR CONSTRUCTION DRAWINGS

Plans are required to have the following minimum information to be accepted for plan check. Plans shall be of sufficient clarity to indicate the location, nature and extent of the work proposed shall conform to the provisions of the adopted International Codes and ordinances.

Plan sheets must be at least 8½" x 11" x and all sheets shall be the same size. Plans shall be drawn in indelible ink. (Plan sheets that are cut and pasted, taped, or that have been altered by any means (pen, pencil, marking pen, etc.) will not be accepted for plan check.) Two (2) sets of plans, specifications, and calculations are required. Applications will be reviewed for completeness. Any incomplete applications will be returned to you.

SITE PLAN

- Scale must be 1" = 20"
- Property lines/Site dimensions
- Location of all existing structures and distance to property lines
- New vs. existing clearly marked (for remodels and additions)
- Building wall and rooflines match floor plans
- Creeks, streams, shorelines, and wetlands (if applicable)
- Streets, alley, utility, access, and other easements
- Driveway locations and parking design

FOUNDATION PLANS

- All pads and dimensions
- Girders, posts, floor joists, slab

CROSS SECTIONS

- Foundation dimensions
- Reinforcement steel shown or noted as specification on plans
- Frost depth (minimum 12")

All dimensions and sizes used as illustrations in this hand out are for example only. Please contact the Building Division to obtain exact requirements for your specific project.

- Framing details
- Lateral bracing
- Guardrail and handrail structural details

ENGINGEERING (if applicable):

Engineering must be transferred to plans, and plans and calculations shall be stamped and signed by engineer or architect. (Please check with Plans Examiner if you are not certain about requirements.)

- Foundation or retaining wall
- Overhangs or cantilevers
- Beams or columns having unusual loads
- Soils/Geotechnical report (if applicable)
- Engineered trusses, roof, or floor systems

ELEVATIONS

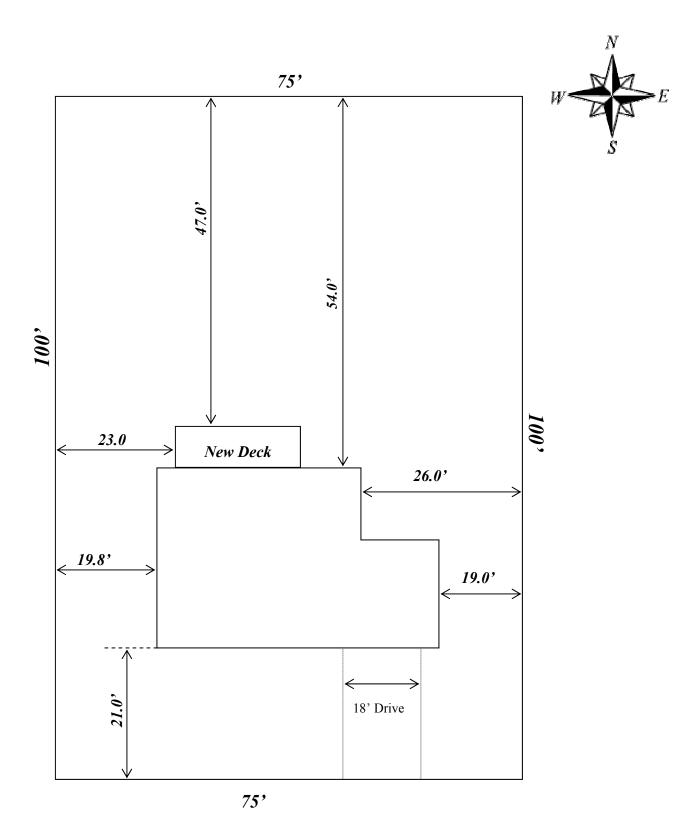
New vs. existing clearly shown (for remodels and additions)

FLOOR PLANS

- New vs. existing clearly distinguished
- Stair direction (up/down)
- Roof Framing plan

Acceptance of the plans, specifications, and calculations by the Building Department acknowledges only the basic elements for review are present, and does not attest to their accuracy or compliance with local codes or ordinances.

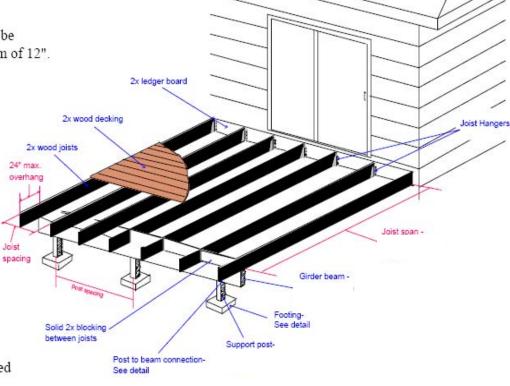
EXAMPLE PLOT PLAN



Scale: 1" = 20'

General Building Code Requirements for Decks

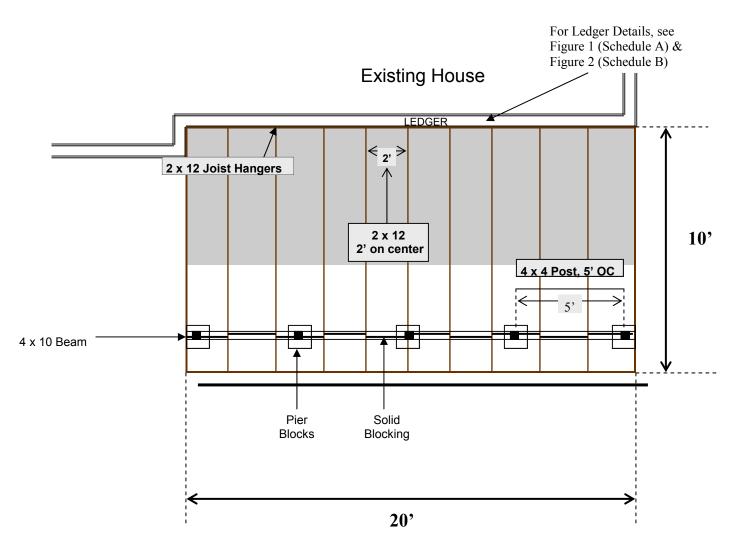
- The bottom of the footings must be extended below grade a minimum of 12".
- Residential decks need to be designed for a 40-pound-persquare-foot live load. All parts of the deck (including horizontal members such as beams, joists, ledger boards and decking; and vertical members such as posts. poles, and columns) must be constructed of pressuretreated wood or approved wood with natural resistance to decay (such as redwood or cedar). Ledger boards must be bolted or lagged to the building and all connections between the deck and dwelling must be flashed with metal flashing.



- Columns and posts exposed to the weather or to water splash must be supported by and connected to concrete piers or metal pedestals projecting above grade. Columns and posts in contact with the ground or embedded in concrete or masonry must be of special pressure treated wood approved for ground contact.
- 4. Decks should not overhang beams by more than two feet, nor should beams overhang posts by more than a foot at the ends unless a specific design is calculated. Floor joist spacing at 24" on center requires 2x decking, and floor joist spacing at 16" on center requires 1x decking.
- 5. All decks, balconies or porches, open sides of landings and stairs which are more than 30" above grade or a floor below must be protected by a guardrail not less than 36" high (42" for commercial or common areas of multi-family dwellings). Open guardrails and stair railings require intermediate rails or an ornamental pattern such that a ball 4" in diameter cannot pass through.
- 6. If a stairway is to be provided, it must be not less than 36" wide. Stairs may have an 7-¾" maximum rise (height) and a 10" minimum run (length). The largest riser height and tread run may not exceed the smallest corresponding riser height or run by more than 3/8 inch. Stair treads shall have nosings of at least ¾" but not more than 1-¼" unless the treads are 11" or more. The radius of the curvature at the leading edge of the tread shall be no greater than 9/16".
- 7. Handrails are required on all stairways having four or more risers. Handrails may not be less than 1.25" nor more than 2" in cross sectional area (diameter). Handrails must be installed not less than 34" nor more than 38" above the nosing (front edge) of treads and they must be returned to a wall or post at the ends.
- Deck stairs (exterior stairways) shall be provided with a source of illumination at the top landing, controlled from within the dwelling or by automatic means.

EXAMPLE PLAN VIEW

ALL MATERIAL IS TO BE PRESSURE TREATED



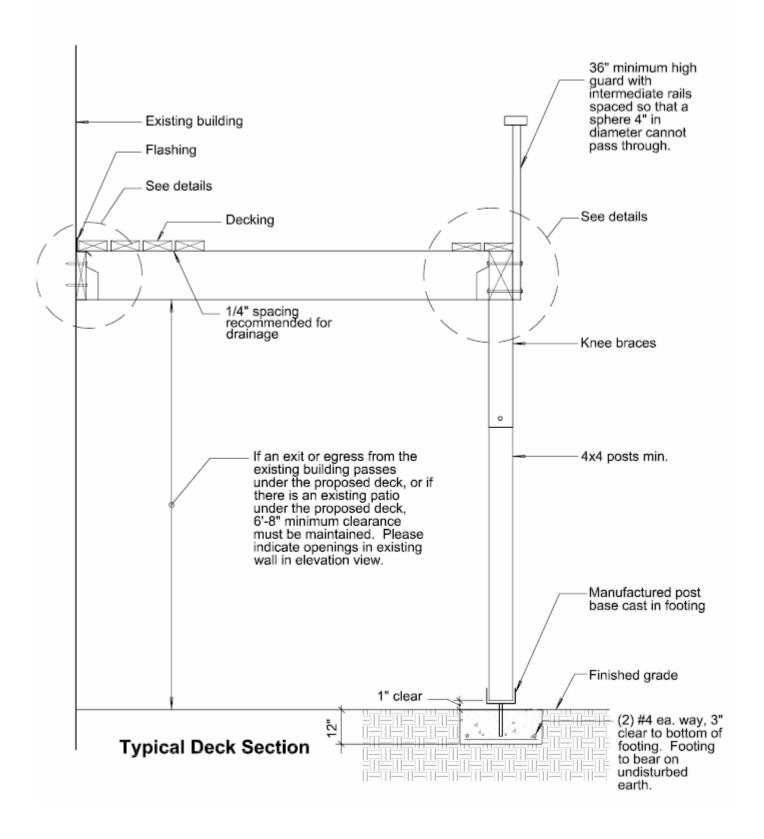
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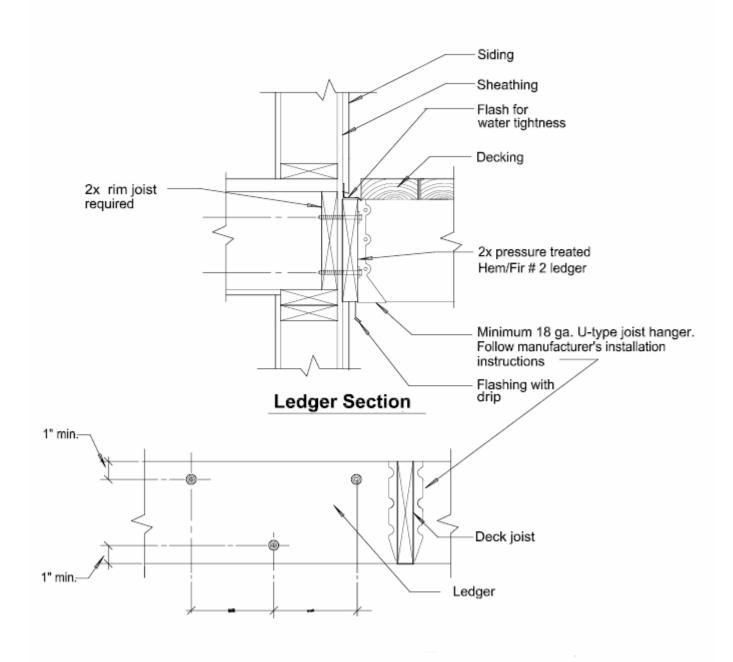
Metal In Contact With Treated Materials

All Bolts, Washers, Nuts, Hangers, Strapping, Nails, and Other Fasteners in Contact With Treated Materials Shall be Hot Dipped Galvanized or Stainless Steel. IBC 2304.9.5

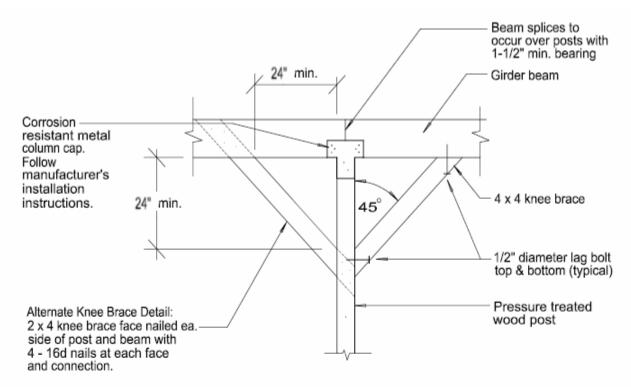
Wood Exposed to Weather

All Wood Exposed to Weather Shall Be Pressure Treated or Have a Natural Resistance to Decay as Per IRC Section 319.1.2





Ledger Elevation



Knee Brace Detail

