

City of Smithville, Missouri

Total Fee: \$70.00

Deck Permit Application

Permit Fee: \$45.00

2018 International Codes

Plan Review Fee \$25.00



PROPERTY INFORMATION:

RESIDENTIAL ☐ OR COMMERCIAL ☐

DATE: / /

PROPERTY ADDRESS:

PROPERTY OWNER:

ADDRESS IF DIFFERENT FROM PROPERTY

CONTRACTOR INFORMATION:

CITY OCCUPATION LICENSE # _____

If you do not have a license, please provide the following information, AND complete an Occupation License Application.

NAME:

ADDRESS:

BUSINESS PHONE# _____

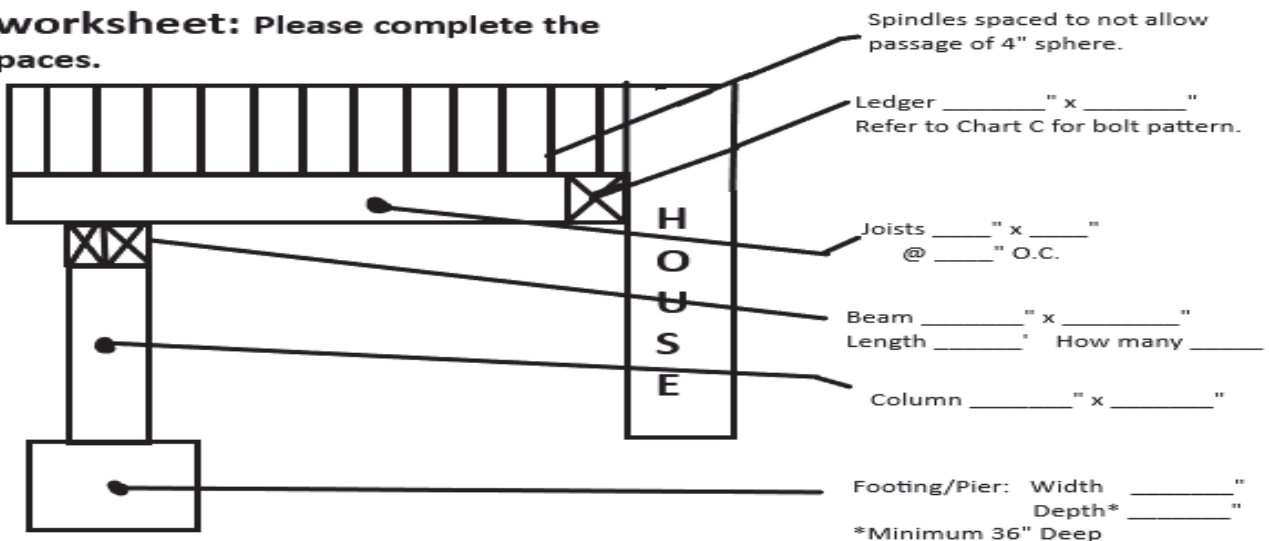
LOCAL CONTACT/CELL # _____

E-MAIL*: _____

*Permits and invoices only sent via e-mail
OR you must pick up at City Hall

Construction Details: MATERIAL VALUATION: _____ LENGTH: _____ WIDTH: _____
STAIRS: YES / NO RISERS: YES / NO

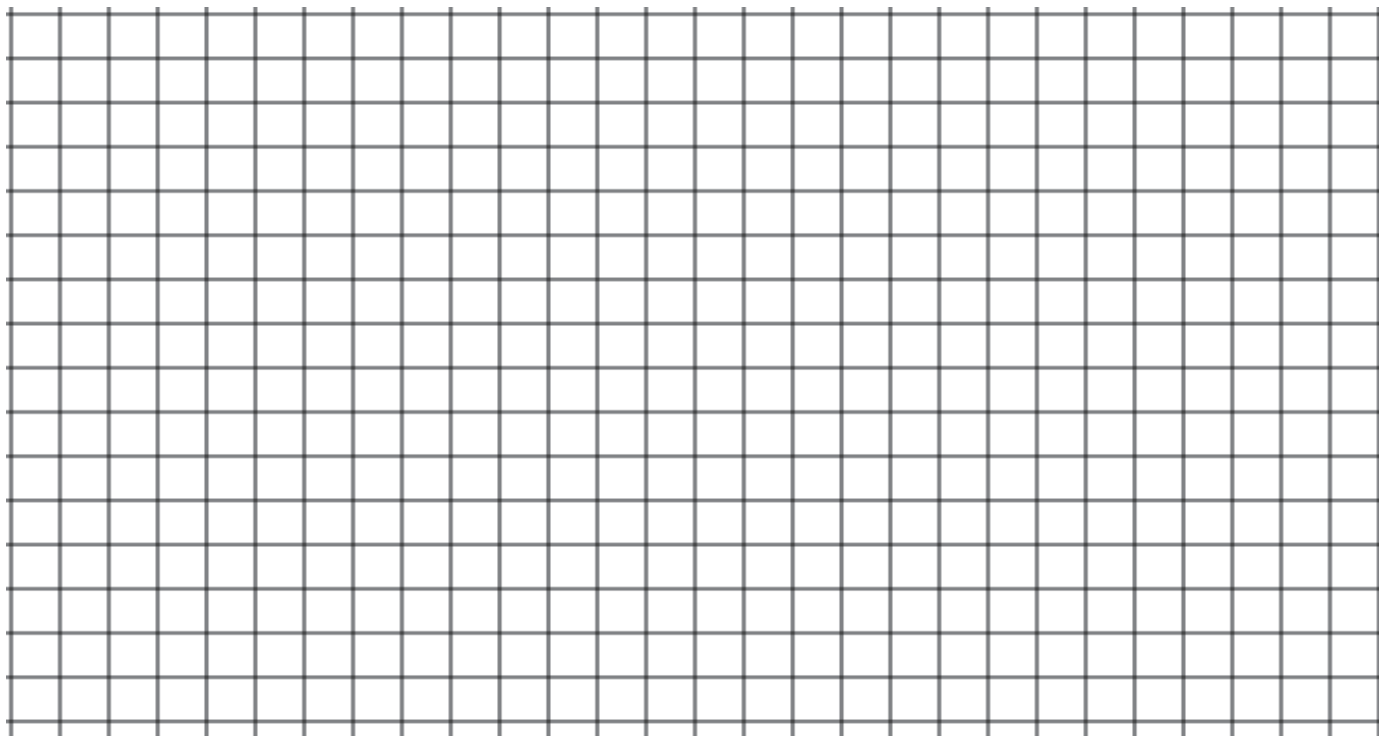
Deck worksheet: Please complete the blank spaces.



Please note:

- 1) Screws are not permitted to be used for joist hangers. 2) All bolts must be provided with washers.
- 3) If using engineered lumber you must provide the manufacturers cut sheet. 4) Connectors must be compatible with type of lumber used. 5) If this worksheet is not applicable to your deck a full set of drawings must be provided.

SITE PLAN LAYOUT: Draw the overhead footprint of the deck in relationship to the existing house. Include location of stairs if you are adding them. Include location of columns with horizontal measurements. Include distances from both sides and rear to property lines. Include on the drawing where the rear and front yards are located.



Applicant certifies that the Deck is designed in accordance with the Deck Guidelines of the City of Smithville.

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the code official or the code official's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.

SIGNATURE

E-MAIL

PHONE NO.

NOTICE: The disposal of demolition waste is regulated by the Department of Natural Resources pursuant to chapter 260, RSMo. Such waste, in types and quantities established by the department, shall be taken to a demolition landfill or a sanitary landfill for disposal.

GENERAL REQUIREMENTS FOR RESIDENTIAL DECKS

A permit is required for the construction of a residential deck, below is a list of guidelines to follow.

Check into the proposed location of the deck. Make sure you know where any easements are and the exact locations of your property lines.

Footings and piers shall extend thirty-six inches (36") below grade and bear on undisturbed soil and must be inspected prior to placing concrete. The diameter of the pier shall be calculated using Chart B.

Guards shall be provided for decks, balconies and porches, which are more than 30" above grade. Guards must be not less than 36" above walking surface. Intermediate rails shall be placed so that a 4" ball cannot pass through. (R312.1, R312.2, R312.3)

Guardrails shall extend a minimum of thirty-six inches (36") above the walking surface. Decks less than 30" above the ground are not required to have guardrails.

Stair risers shall not exceed 7 ¾", runs shall be no less than 10" (excluding nosing).

Handrails are required on at least one side of stairs and all open sides. The top of the handrail shall be 34"-38" measured vertically from the nose of the tread.

Guardrails and stair railings shall have intermediate rails or an ornamental pattern so that a 4" sphere cannot pass through.

Structural requirements for deck are based upon loads of 40-lbs/sq foot. The following spans are for floor joists.

MAXIMUM SPANS FROM TABLES R502.3.1(1), R502.3.1(2)

<u>PRESSURE TREATED LUMBER</u>	<u>#2 – 24" O.C.</u>	<u>#2 – 16" O.C.</u>
2 X 6	8'-6"	9'-9"
2 X 8	11'	12'-10"
2 X 10	13'-1"	16'-1"

Chart A.

Maximum post heights for 40 lb/ft² deck design.

Species	Post Size	40 lb/ft ² live load – 10 lb/ft ² dead load Tributary load area to post (ft ²)													
		36	48	60	72	84	96	108	120	132	144	156	168	180	192
Southern Pine	4X4	10	10'	10'	9'	9'	8'	8'	7'	7'	6'	6'	6'	6'	5'
	4X6	14'	14'	13'	12'	11'	10'	10'	9'	9'	8'	8'	8'	7'	7'
	6X6#1	17'	17'	17'	17'	17'	17'	17'	17'	17'	17'	17'	17'	16'	16'
	6X6#2	17'	17'	17'	17'	17'	17'	17'	17'	16'	16'	15'	14'	13'	13'
Redwood or Western Red Cedar	4X4	10'	10'	9'	8'	7'	7'	6'	6'	5'	4'				
	4X6	14'	13'	12'	11'	10'	9'	8'	8'	7'	7'	7'	6'	6'	5'
	6X6#1	17'	17'	17'	17'	17'	17'	17'	17'	16'	15'	15'	14'	14'	13'
	6X6#2	17'	17'	17'	17'	17'	16'	13'	7'						

Chart B.
Pier Sizes based on deck area supported.

Pier Diameter	Square footage of deck that can be supported	Pier Diameter	Square footage of deck that can be supported
8"	14	18"	72
10"	20	20"	88
12"	32	22"	104
14"	40	24"	126
16"	56		

Chart C.
Required size and spacing of corrosion resistant lag screws for attaching deck ledger to house for a given joist span.

On-center spacing of lag screws (inches)					
Lag size	Joist span (feet)				
½" dia. Lag	0-5 ft	6-7 ft	8-10 ft	11-14 ft	15-18 ft
	32" o.c.	24" o.c.	16" o.c.	12" o.c.	8" o.c.
Equivalent spacing joists @ 16" o.c.	Every other joist space	Two every third joist space	Each joist space	Each joist space with two every other space	Two in each joist space
¾" dia. Lag	0-4 ft	5-6 ft	7-8 ft	9-12 ft	13-18 ft
	24" o.c.	16" o.c.	12" o.c.	8" o.c.	6" o.c.
Equivalent spacing joists @ 16" o.c.	Two every third joist space	Each joist space	Each joist space with two every other space	Two in each joist space	Two each joist space with three every other space

Chart D.

Footing for use in ground frost areas

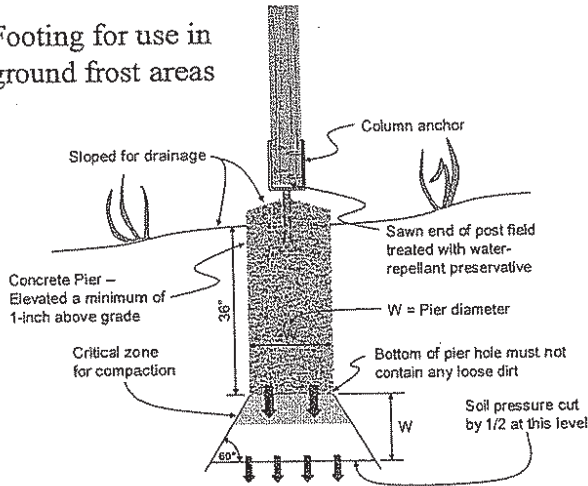


Chart E.

