

IN ORDER TO BUILD A DECK IN THE CITY OF OSCEOLA, YOU MUST OBTAIN: A PERMIT, PASS INSPECTIONS, AND LOCATE PROPERTY LINES.

## OBTAINING A PERMIT

To obtain a permit, you will need the following information:

- Permit application
- Permit cost determined by sq.ft. or valuation
- Site plan showing location and easements and measurements of rear & side yard, and lot lines

## **PROPERTY LINES**

The City of Osceola does not locate property lines.

The Building Department can provide you with a plat map showing a property's dimensions.

The Building Department can be reached at (641) 414-9342 or oscbuilding@iowatelecom.net

## INSPECTIONS

An inspection is required for footings and once the structure is complete.

Inspections require 24hr notice. To schedule an inspection M-F 8a-4p, call (641) 414-9342



City of Osceola Building Department 115 N Filmore St. Ph: (641) 414-9243 www.oscbuilding@iowatelecom.net

# GENERAL GUIDELINES

- 1. An exterior floor system supported on at least two opposing sides by an adjoining structure and/or posts, piers, or other independent supports.
- 2. All decks require a building permit from the Building Department, 115 N. Filmore, located in City Hall.
- 3. A deck is NOT permitted to encroach over or otherwise impede an easement on file with the applicable county recorder.
- 4. If Restrictive Covenants for your plat are on file with the applicable county recorder, some additional requirements may apply.
- 5. A guardrail is required if deck height is 30" or more above grade.
- 6. If guardrail and stair railings are required, they shall have intermediate railings or an ornamental pattern such that a sphere 4" in diameter cannot pass through.
- 7. Stairs with 4 (four) or more risers require grip-able handrails that shall be not less than 34 inches and not more than 38 inches.
- 8. Minimum 10" run and maximum 7 3/4" rise required for stairs.
- 9. Pounds per square foot must be increased for hot tubs.



Notification service for locating underground

Call Before You Dig!

#### Step 1: Design and Plan Your Deck

If you do not have a ready-made design you'll have to design a plan yourself.

First, draw a simple sketch of the deck-decking, rails, footing, posts and beams, then insert the dimension. To save money, stick to standard lumber sizes and lengths.

Use a treated lumber and rated fasteners.

## Step 2: Find the Footing Size

To find the footing size, use the equations below to calculate the load on the corner posts (equation 1) and on the intermediate posts (equation 2). Neither equation is designed for hot tub loads.

#### Equation 1

(1/2 PS 1) x (1/2 span) = Load Area x (50 psf) = Load (psf)

#### Equation 2

(1/2 PS 1 + 1/2 PS 2) x (1/2 span) = Load Area x (50 psf) = Load (psf)



Using Equation 1 and Equation 2, refer to the chart to determine the footing size for each post.



#### Step 3: Find the Post Size

To find the appropriate post size, use the chart below for each post. Embed the post in the concrete footing or attach with approved connectors.

Height in Feet	Load area supported by post				
	48 sf	72 sf	96 sf	120 sf	144 sf
Up to 6	4 x 4	4 x 4	6 x 6	6 x 6	6 x 6
Up to 8	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6

## Step 4: Find the Beam Size

To find the beam size on which to rest the joint, refer to the chart below.



## Step 5: Find the Joist Span

To find the joist size and span, use the chart below. Notice that the span allowed by different joist sizes is dependent on 16 inch or 24 inch spacing between joists. Attach each joist to the ledger board that is attached to the house and rest the other end

Joist Size in Inches	Max Joist Spacing		
	16" o/c	24" o/c	
2 x 6	9 ft. 4 in.	8 ft. 2 in.	Your Deck Span
2 x 8	12 ft. 3 in.	10 ft. 9 in.	
2 x 10	15 ft. 8 in.	13 ft. 8 in.	
2 x 12	19 ft. 1 in.	16 ft. 8 in.	

## Step 6: Find the Decking Material Span

Next you need to determine the appropriate deck surface material. Shrinkage will occur when treated materials dry out. To ensure the spacing will be no more than 1/4" between boards AFTER the material dries out, install deck surface boards tightly together—with no more than 1/8" spacing.



## Step 7: Design the Railing

The last step is to design the railing. A guard railing is required if the decking surface is more than 30 inches off the ground. A 4" sphere shall not be able to pass through any

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be at	Distance Between Posts	Post Size	Cap Size	
ct	2 ft. to 3 ft.	2 x 4	2 x 4	
	3 ft. to 4 ft.	2 x 4, 4 x 4	2 x 4, 2 x 6	
	4 ft. to 6 ft.	2 x 6, 4 x 4	2 x 6	