



Village of Woodridge

Community Development Department – Five Plaza Drive – Woodridge, IL 60517-5014
(630)719-4750 – TTY (630)719-2497 – FAX (630)719-2900

Deck Installation Guide

A permit application, along with 2 copies of the Plat of Survey and 2 copies of the deck drawings must be provided with the deck drawn to scale on each of the plats of survey.

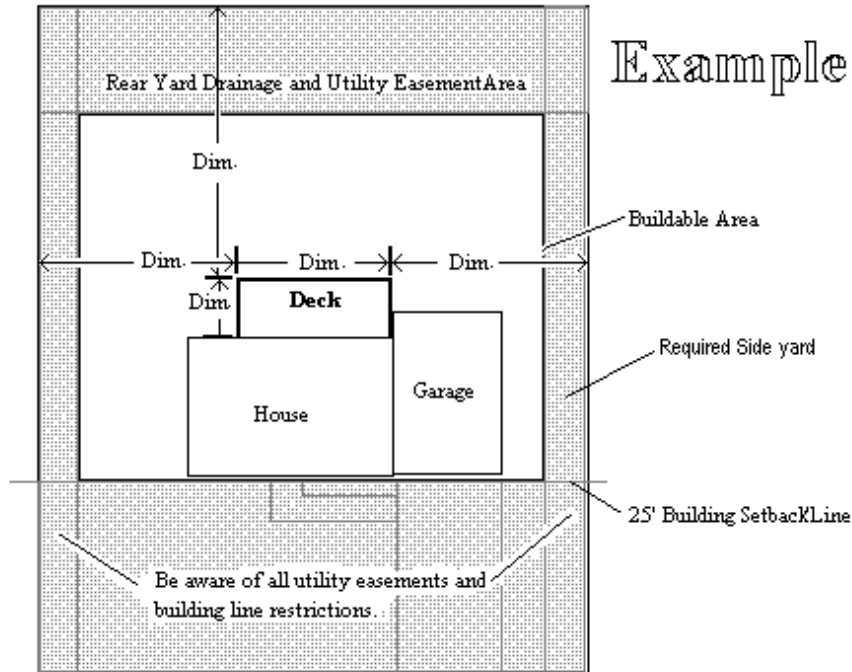
The following drawings and graphs represent information that must be provided to the Village of Woodridge Community Development Department when applying for a permit to install a deck.

A Certified Engineer or Licensed Architect must design decks that are supporting spas, hot tubs, and / or covered accessory structures such as gazebos and three-season rooms.

**Inspection #1 = Post holes & Ledger Board attachment
Inspection #2 = Final Inspection**

Permit Fee: \$75.00

Plat of Survey



Provide (2) Two copies of PLAT OF SURVEY identifying the location of the new deck, patio etc...

Provide overall dimensions of deck with distances to side and rear lot lines.

Decks may be built in the rear yard and buildable area only. May not be built in any easement.

The following information must be provided on the deck drawing.

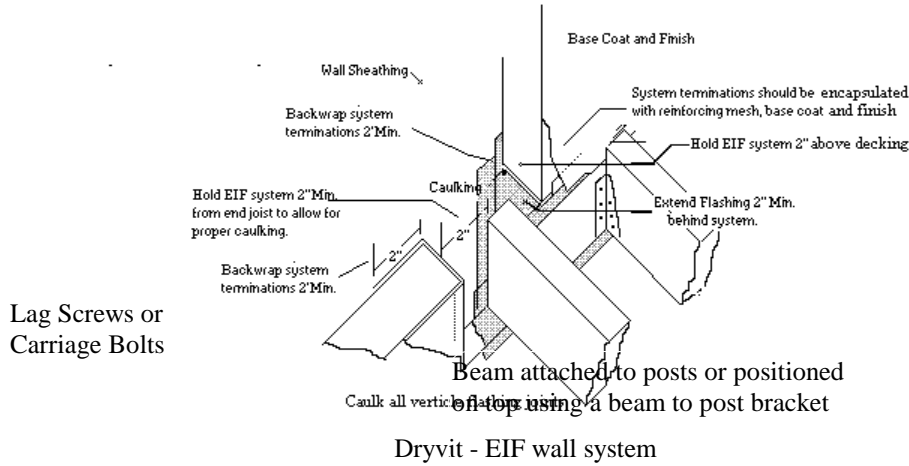
Joist Size and spacing (i.e. 2 x 8 @ 16" o.c.)
 Beam size, span between supporting members.
 Posts and spacing, Size and Span between posts.
 Railing type and height

Information on joist hangers and brackets
 Height of deck off the finished grade.
 Step rise and run (Riser and tread size)
 Baluster size and spacing

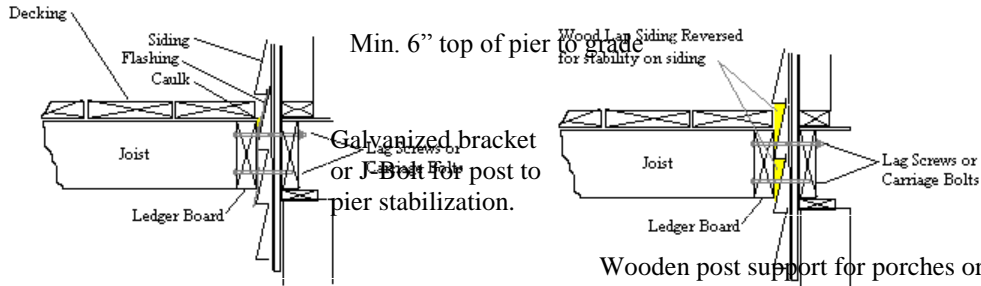
Railing Height 36" Min. above decking (42" if deck is more than 84" above floor or grade).

Balusters: Spacing shall be that a 4" sphere shall not pass through members.

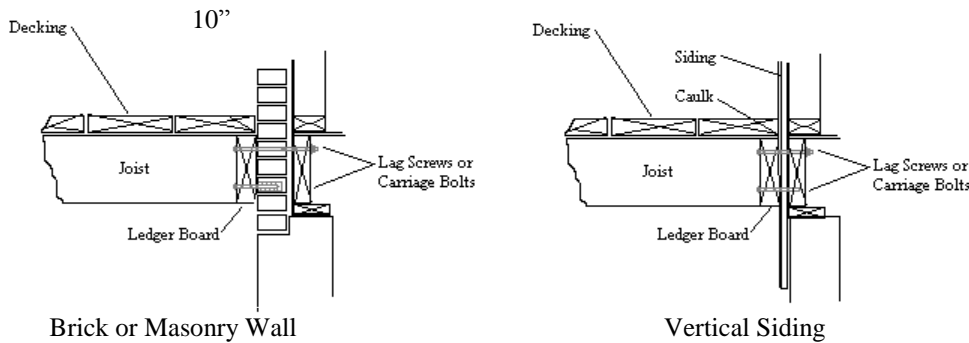
Ledger Board Installations



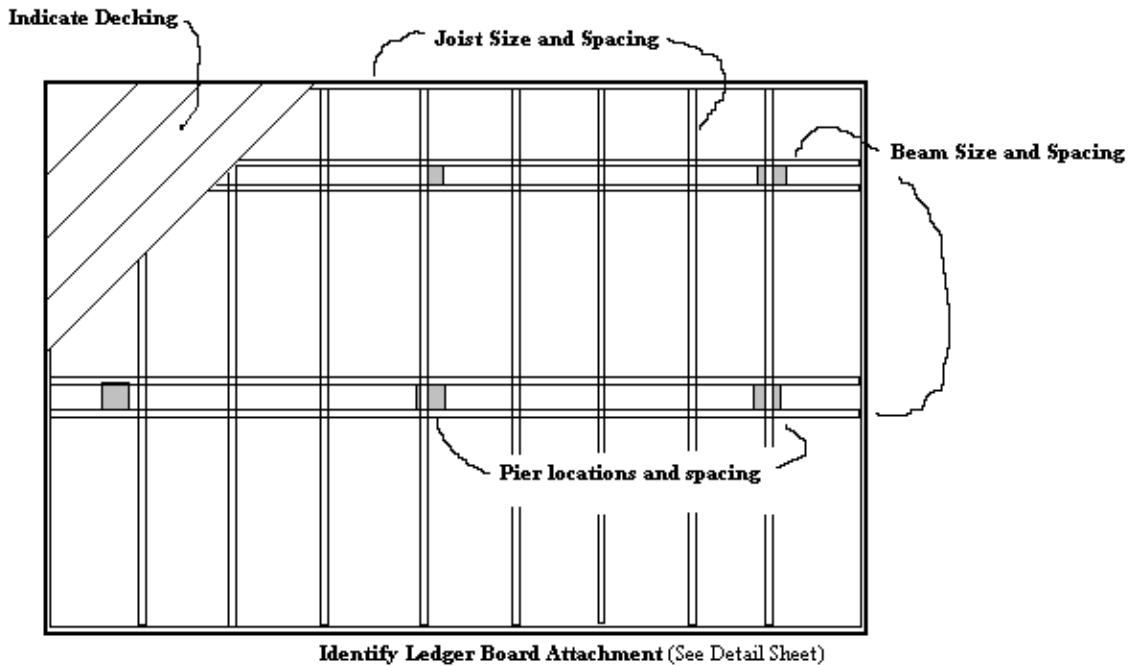
Lag Screws or Carriage Bolts



Wooden post support for porches or decks constructed six feet (6') or more above grade shall be no less than six inch by six inch (6" x 6") nominal lumber. [VWC 8-1C-203.C]



- *All structural members to be treated Lumber
- *Mounting ledger board shall have (2) two lag screws or carriage bolts every 32" o.c. placed high and low or (1) lag screw or carriage bolt alternating high and low every 16" o.c.
- *All hardware associated with the deck assembly and attachment to be galvanized material or approved comparable product.

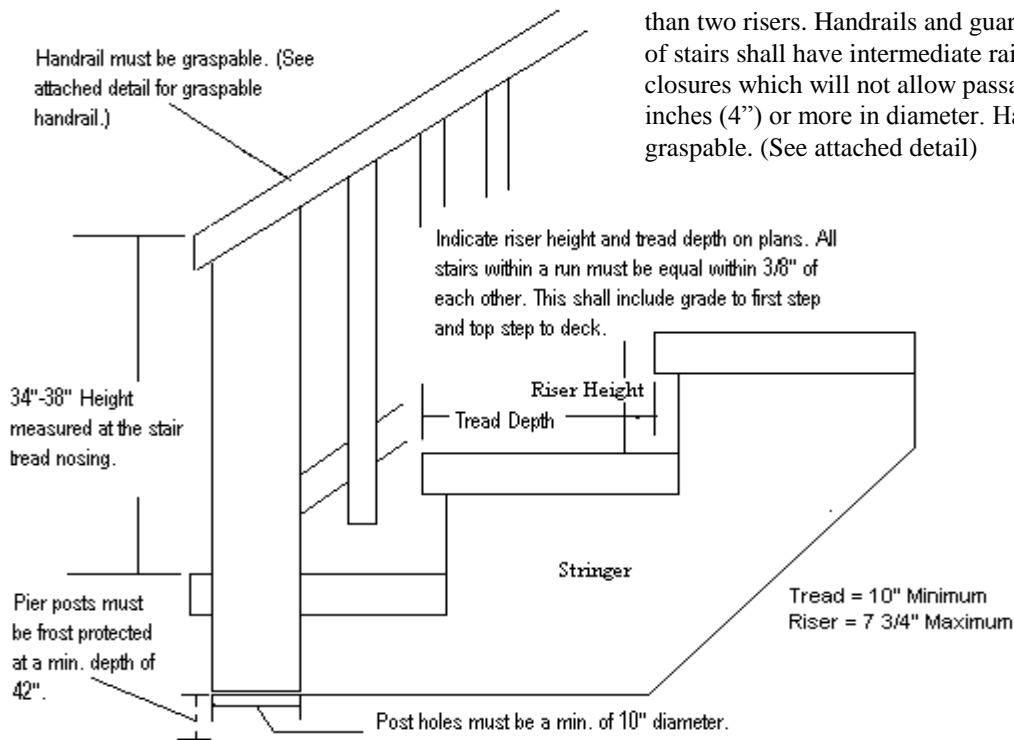


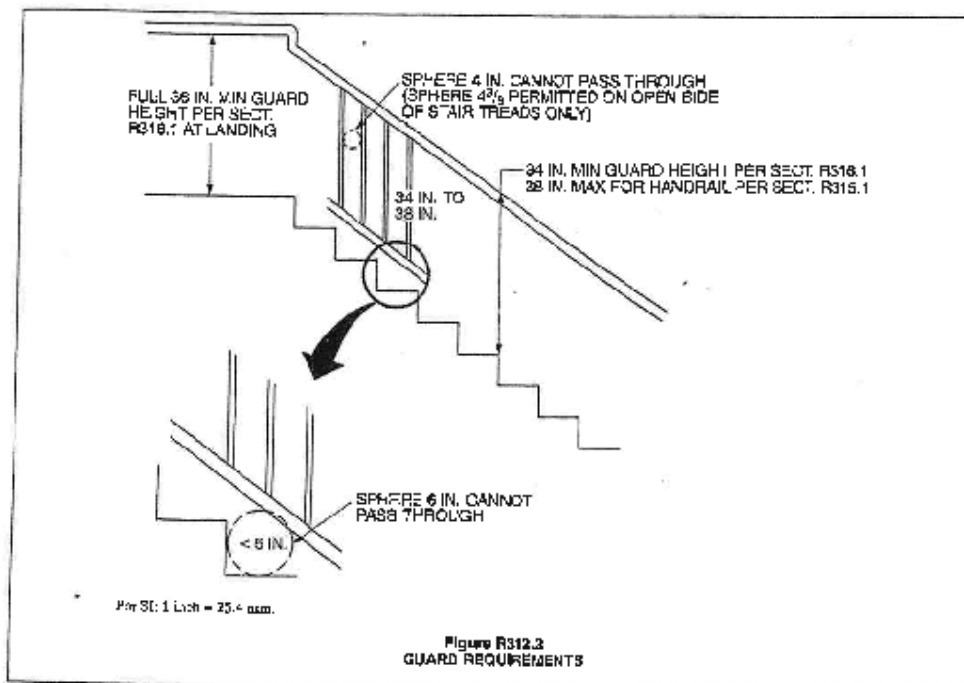
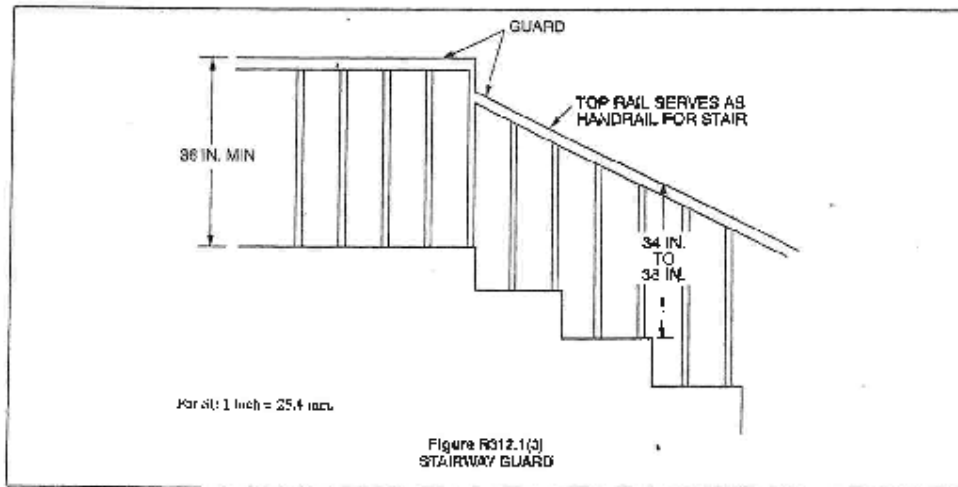
Open risers are permitted provided that the opening between treads does not permit the passage of a 4" diameter sphere.

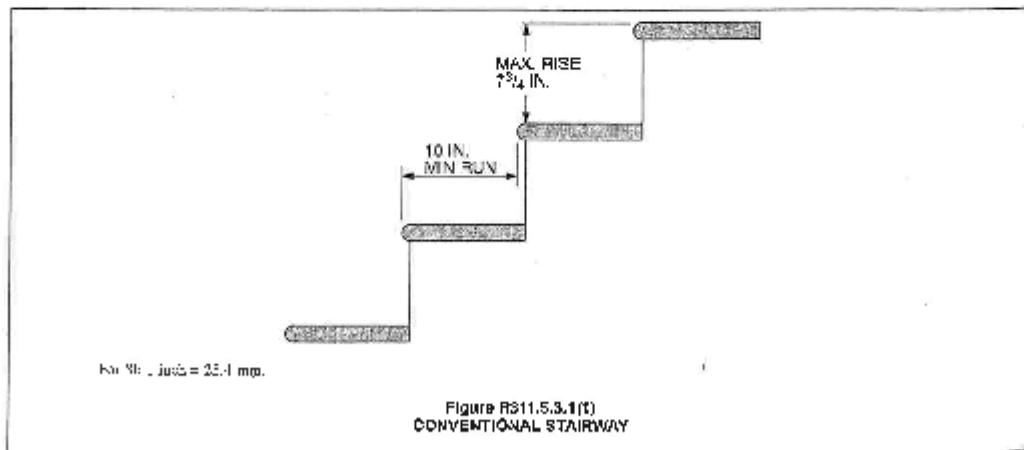
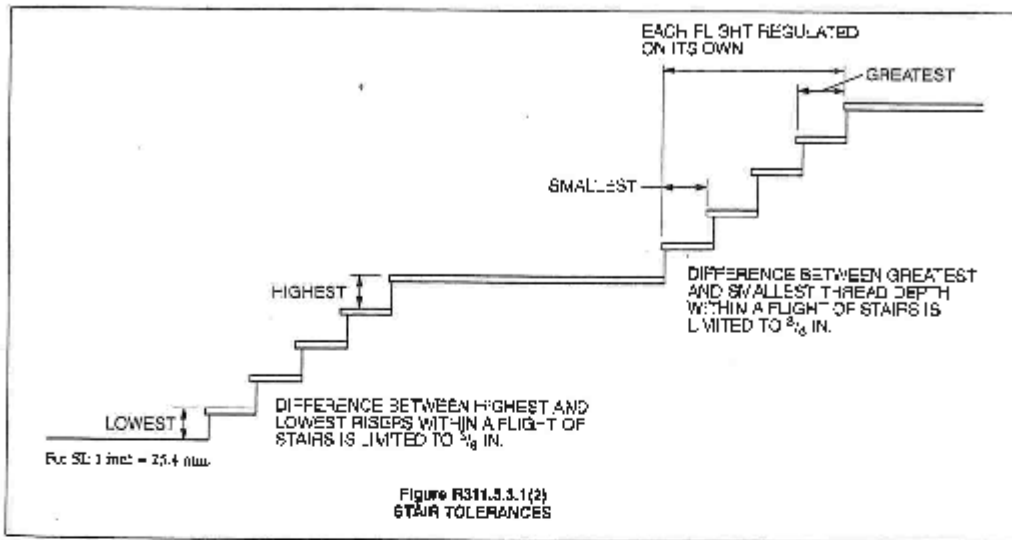
Porches, balconies or raised floor surfaces located more than 20" above the floor or grade below shall have guardrails not less than 36" in height.

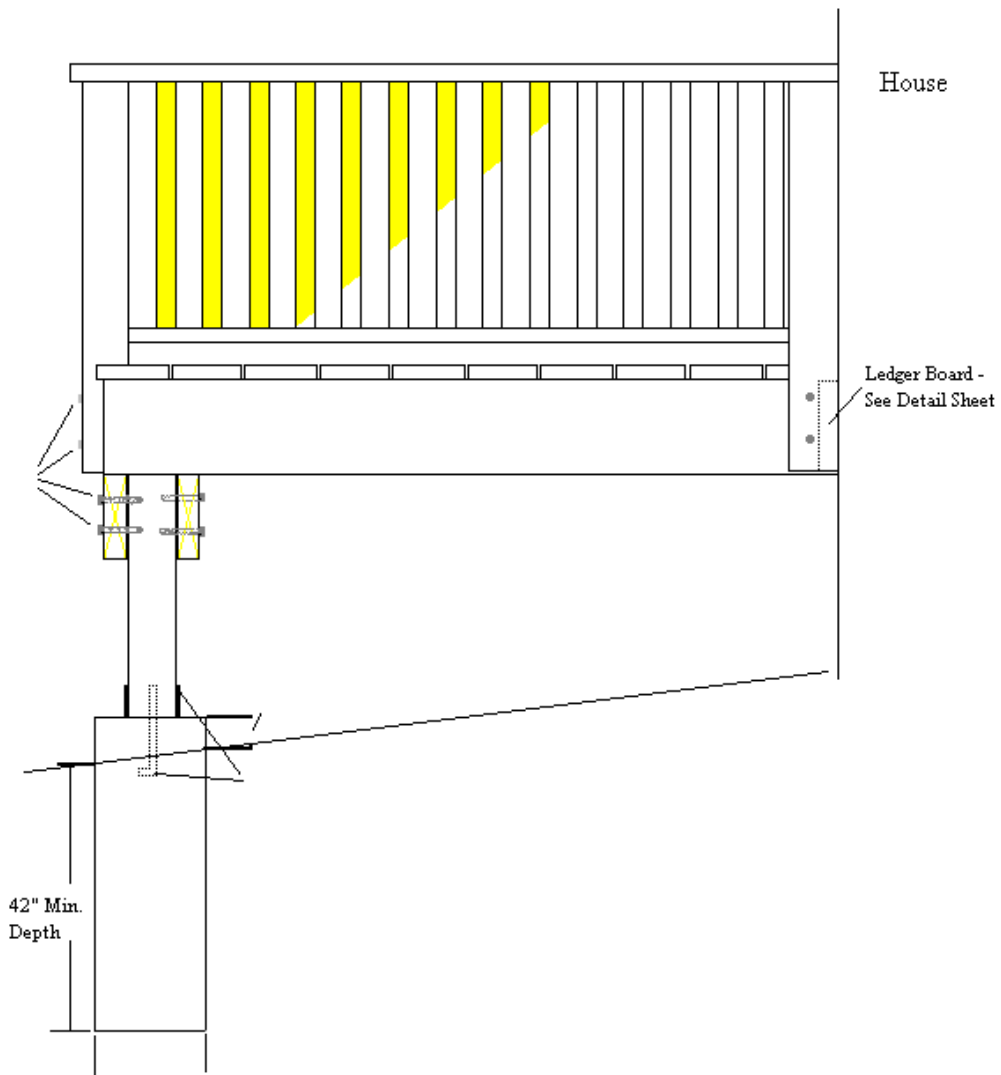
Porches, balconies or raised floor surfaces located more than 84" above the floor or grade below shall have guardrails not less than 42" in height.

Provide a 34"-38" handrail for all stairways with more than two risers. Handrails and guardrails on open sides of stairs shall have intermediate rails or ornamental closures which will not allow passage of an object four inches (4") or more in diameter. Handrail must be graspable. (See attached detail)



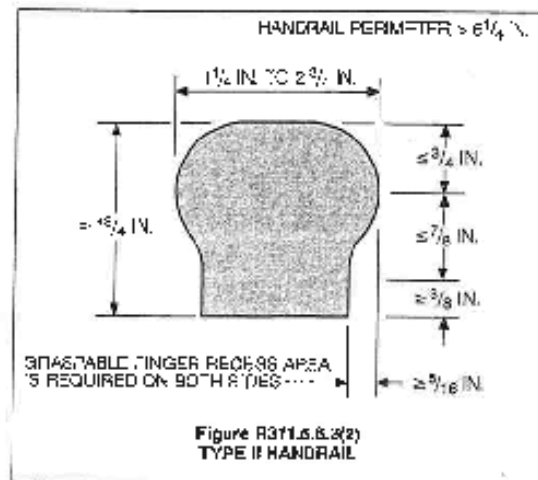
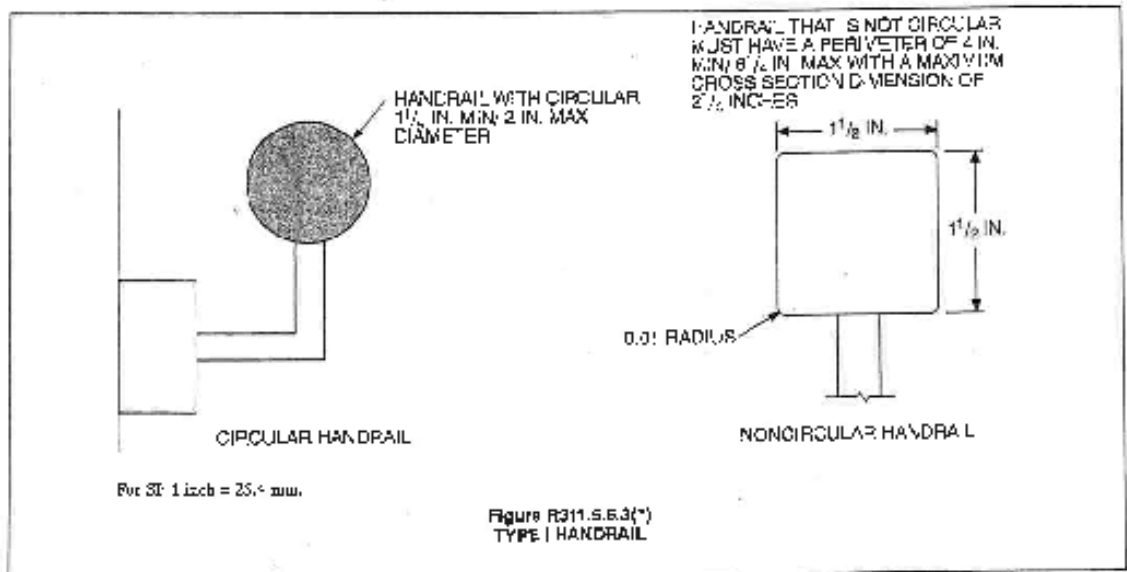






**Always call J.U.L.I.E. before Digging!! Toll Free - 24 Hrs. a day - 7 Days a week
 Call 48 Hrs. before digging 1-800-892-0123**

Lumber Size	Maximum Joist Spans For 40 # Live Load		
	12" o.c.	16" o.c.	24" o.c.
SPF #2	12" o.c.	16" o.c.	24" o.c.
2 x 10	17'-3"	15'-5"	12'-7"
2 x 8	13'-6"	12'-3"	10'-3"
2 x 6	10'-3"	9'-4"	8'-1"



Joist & Post Spacing

Unsupported Length of Joists										
		6'	7'	8'	9'	10'	11'	12'	13'	14'
P	4'	1 2 x 6	1 2 x 6	1 2 x 6	1 2 x 8	1 2 x 8	1 2 x 8	1 2 x 8	1 2 x 10	1 2 x 10
			1 2 x 8	1 2 x 8	1 2 x 10	1 2 x 10	1 2 x 10	1 2 x 10	1 2 x 12	1 2 x 12
O	5'	1 2 x 6	2 2 x 6	2 2 x 6	1 2 x 8	1 2 x 8	1 2 x 8	1 2 x 8	1 2 x 10	1 2 x 10
			1 2 x 8	1 2 x 8	1 2 x 10	1 2 x 10	1 2 x 10	1 2 x 10	1 2 x 12	1 2 x 12
S	6'	2 2 x 6	2 2 x 6	2 2 x 6	2 2 x 8	2 2 x 8	2 2 x 8	2 2 x 8	2 2 x 10	2 2 x 10
			1 2 x 8	2 2 x 8	1 2 x 10	1 2 x 10	1 2 x 10	1 2 x 10	1 2 x 12	1 2 x 12
T	7'	2 2 x 6	3 2 x 6	3 2 x 6	2 2 x 8	2 2 x 8	2 2 x 8	3 2 x 8	2 2 x 10	2 2 x 10
			2 2 x 8	2 2 x 8	2 2 x 10	2 2 x 10	2 2 x 10	2 2 x 10	1 2 x 12	2 2 x 12
S	8'	3 2 x 6	3 2 x 6	3 2 x 6	3 2 x 8	3 2 x 8	3 2 x 8	3 2 x 8	2 2 x 10	2 2 x 10
		2 2 x 8	2 2 x 8	2 2 x 8	2 2 x 10	2 2 x 10	2 2 x 10	2 2 x 10	2 2 x 12	2 2 x 12
P	9'	3 2 x 6	4 2 x 6	4 2 x 6	3 2 x 8	3 2 x 8	3 2 x 8	4 2 x 8	2 2 x 12	2 2 x 12
		2 2 x 8	3 2 x 8	3 2 x 8	2 2 x 10	2 2 x 10	2 2 x 10	3 2 x 10	2 2 x 12	2 2 x 12
A	10'	4 2 x 6	3 2 x 8	3 2 x 8	3 2 x 8	4 2 x 8	4 2 x 8	4 2 x 8	3 2 x 10	3 2 x 10
		3 2 x 8	2 2 x 10	2 2 x 10	3 2 x 10	2 2 x 10	2 2 x 10	2 2 x 10	2 2 x 12	3 2 x 12
C	11'	3 2 x 8	3 2 x 8	4 2 x 8	4 2 x 8	3 2 x 10	3 2 x 10	3 2 x 10	4 2 x 10	4 2 x 10
		2 2 x 10	2 2 x 10	3 2 x 10	3 2 x 10	2 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12
I	12'	3 2 x 8	4 2 x 8	4 2 x 8	3 2 x 10	3 2 x 10	4 2 x 10	4 2 x 10	4 2 x 10	4 2 x 10
		2 2 x 10	3 2 x 10	3 2 x 10	2 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12
N	13'	3 2 x 8	4 2 x 8	4 2 x 8	3 2 x 10	3 2 x 10	4 2 x 10	4 2 x 10	4 2 x 10	4 2 x 10
		2 2 x 10	3 2 x 10	3 2 x 10	2 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12
G	14'	3 2 x 8	4 2 x 8	4 2 x 8	3 2 x 10	3 2 x 10	4 2 x 10	4 2 x 10	4 2 x 10	4 2 x 10
		2 2 x 10	3 2 x 10	3 2 x 10	2 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12	3 2 x 12

This Span Chart Is Based On SPF #2 Lumber

Using the Table Above -

Example: If your posts are 8' apart, and the unsupported length of joists are 10', the beam can be constructed from either (3) 2 x 8's or (2) 2 x 10's.