

RESIDENTIAL DECKS

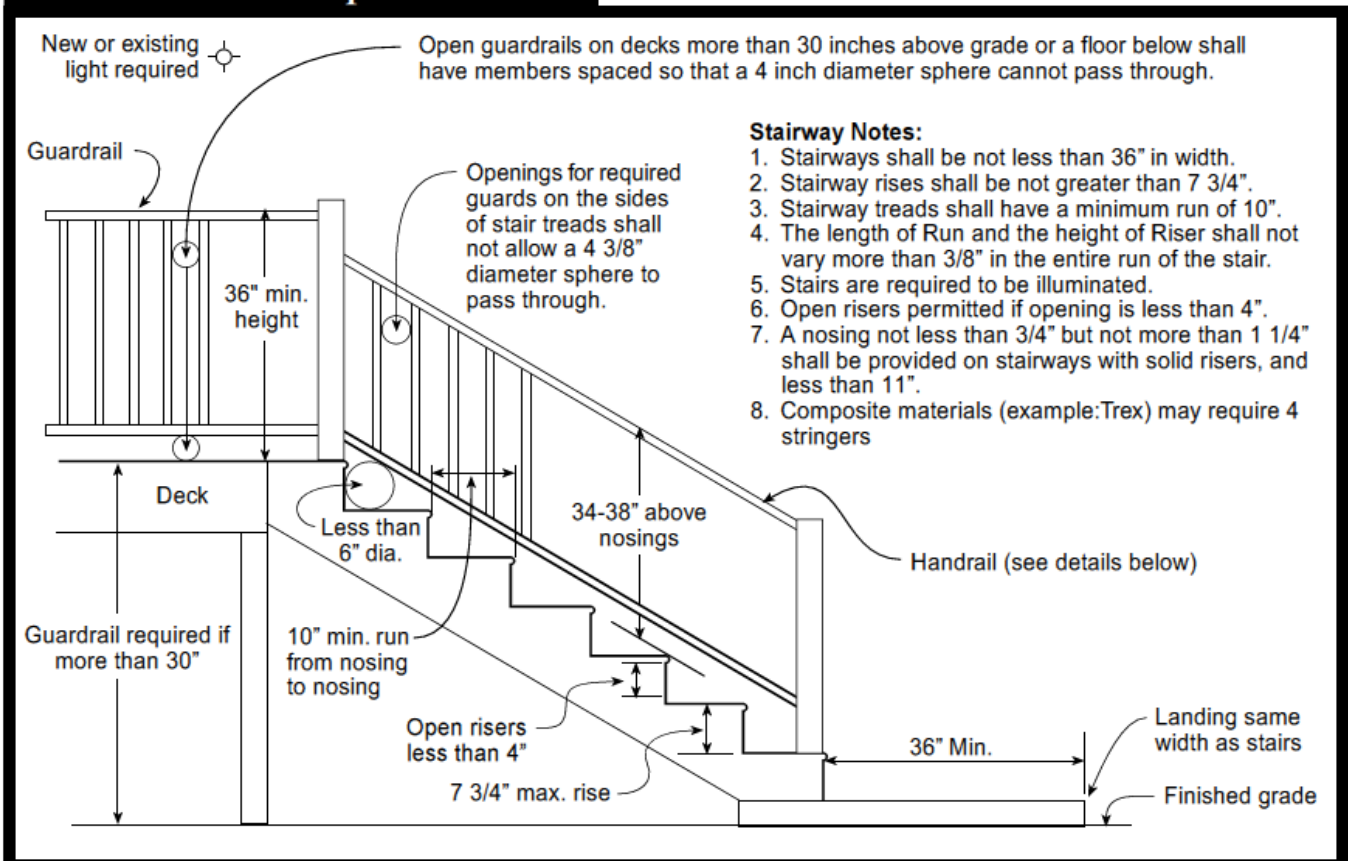
When to Call for Inspections

1. **Footing/ Post Holes** – Holes dug, clean and free from debris. Prior to concrete placement
2. **Framing** – If deck is close to the ground and framing verification will be difficult
3. **Framing/ Final** – Deck, stairs, guards, handrails, and landing all complete.
4. **Other Inspections** – Separate electrical, plumbing, and mechanical inspections are required if those systems are included in your project.

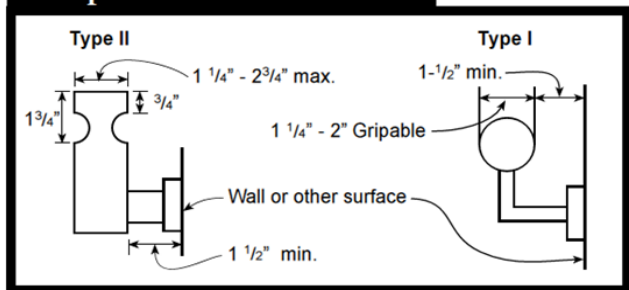
You must notify your inspector when the job is ready for inspection. Call the inspector between the hours of 8:00am – 4:30pm weekdays.

The location of the deck on the lot will be subject to all zoning requirements.

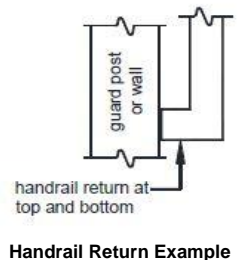
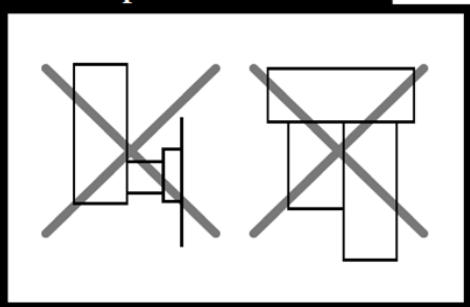
Stair & Handrail Specifications



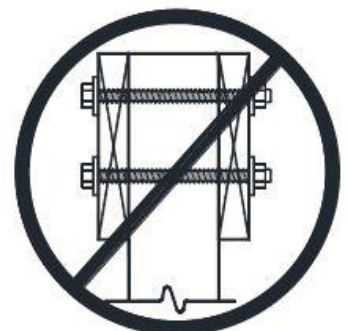
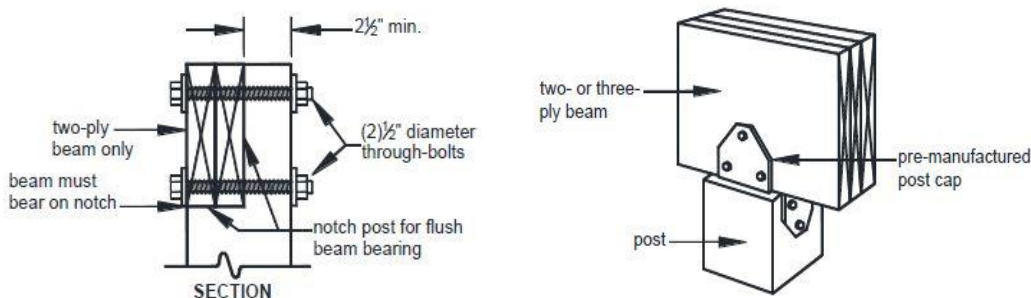
Acceptable Handrail Details



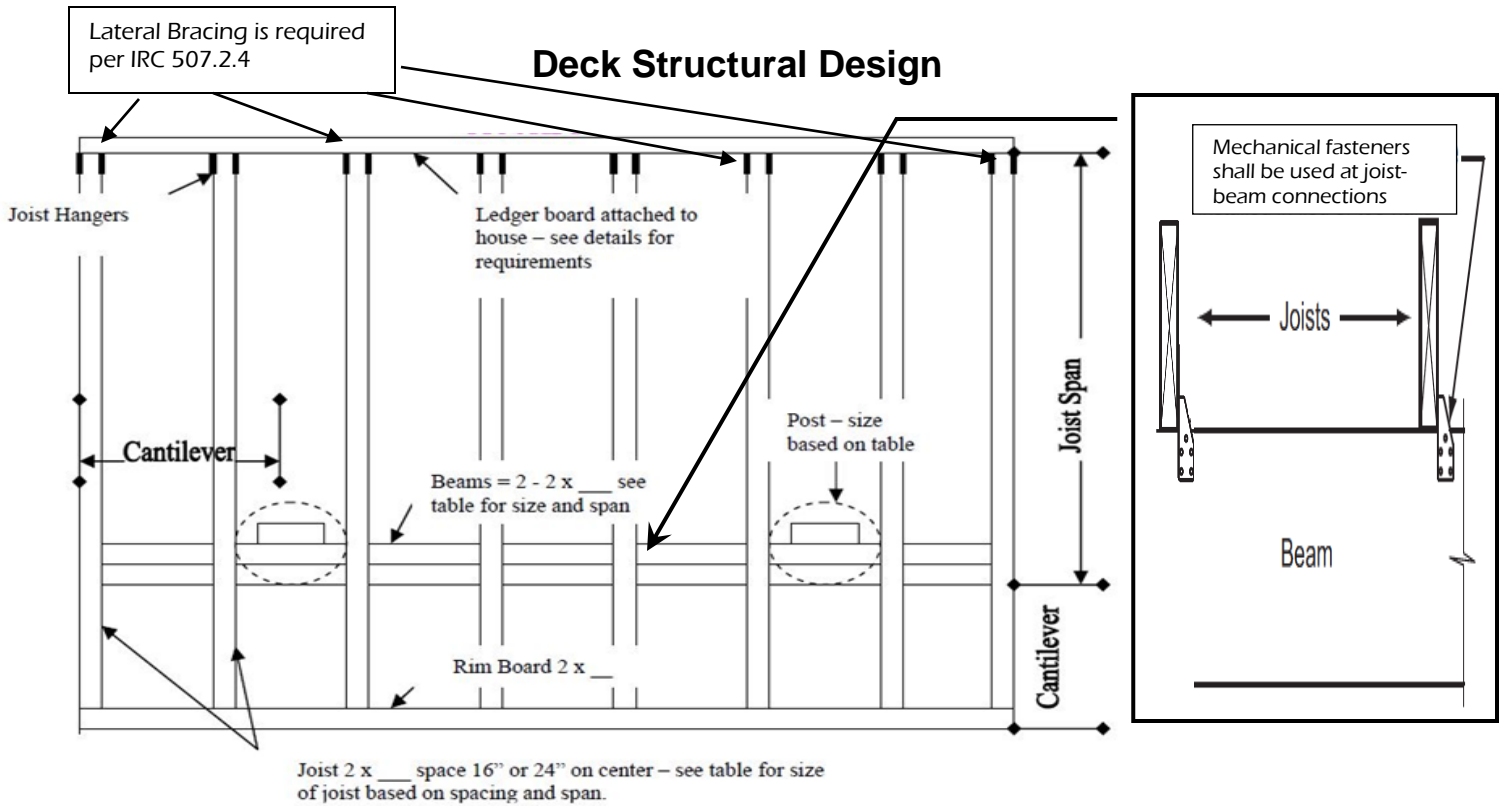
Unacceptable Handrails



Post/ Beam Connection



Deck Structural Design



Joist Spans			
Joist Size and Spacing	Spacing (inches)	No Cantilever Span (feet-inches)	Cantilever Span (feet-inches)
2 x 6	12" o.c.	9-11	6-8
	16" o.c.	9-0	6-8
	24" o.c.	7-7	6-8
2 x 8	12" o.c.	13-1	10-1
	16" o.c.	11-10	10-1
	24" o.c.	9-8	9-8
2 x 10	12" o.c.	16-2	14-6
	16" o.c.	14-0	14-0
	24" o.c.	11-5	11-5
2 x 12	12" o.c.	18-0	18-0
	16" o.c.	16-6	16-6
	24" o.c.	13-6	13-6

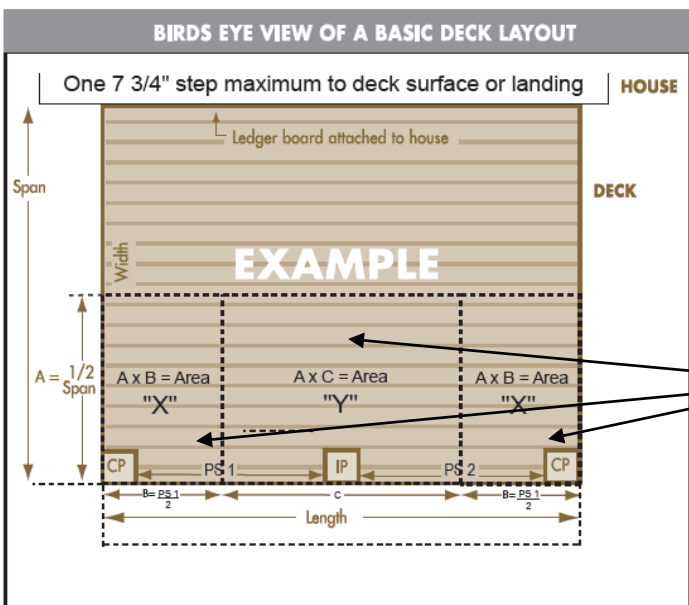
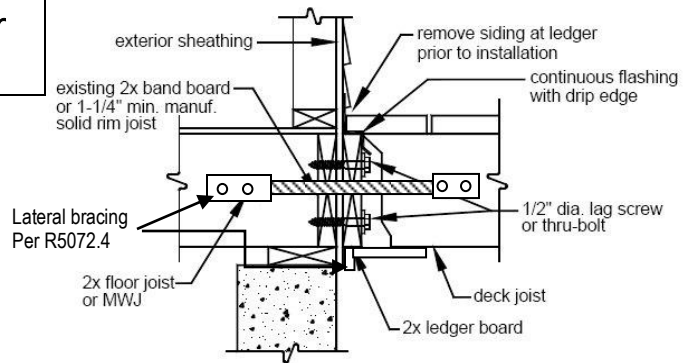
Beam Sizing Table							
Beam Size	Joist Spans (feet)						
	6	8	10	12	14	16	18
Beam Spans (Feet-Inches)							
(2) 2x6	6-11	5-11	5-4	4-10	4-6	4-3	4-0
(2) 2x8	8-9	7-7	6-9	6-2	5-9	5-4	5-0
(2) 2x10	10-4	9-0	8-0	7-4	6-9	6-4	6-0
(2) 2x12	12-2	10-7	9-5	8-7	8-0	7-6	7-0
(3) 2x6	8-2	7-5	6-8	6-1	5-8	5-3	5-0
(3) 2x8	10-10	9-6	8-6	7-9	7-2	6-8	6-4
(3) 2x10	13-0	11-3	10-0	9-2	8-6	7-11	7-6
(3) 2x12	15-3	13-3	11-10	10-9	10-0	9-4	8-10

Beams may cantilever 1/4 of the actual beam span

Decking Materials Spans		
Material	Max Joist Spacing	
	Perpendicular	Diagonal
5/4 Decking	16"	12"
Nominal 2" Decking	24"	16"
Composite Decking	Follow Manufacturers Specs	

Deck Post Height	
Deck Post Size	Maximum Height (feet)
4x4	8'
4x6	8'
6x6	14'

Deck Ledger Detail



Sizing Deck Footings

Frost Depth is 42 inches

*Area "Y" =			
4-10	Square feet or less	use	8" Pier
11-20	Square feet or less	use	10" Pier
21-30	Square feet or less	use	12" Pier
31-40	Square feet or less	use	14" Pier
41-50	Square feet or less	use	16" Pier
51-60	Square feet or less	use	18" Pier