

# City of Hazelwood

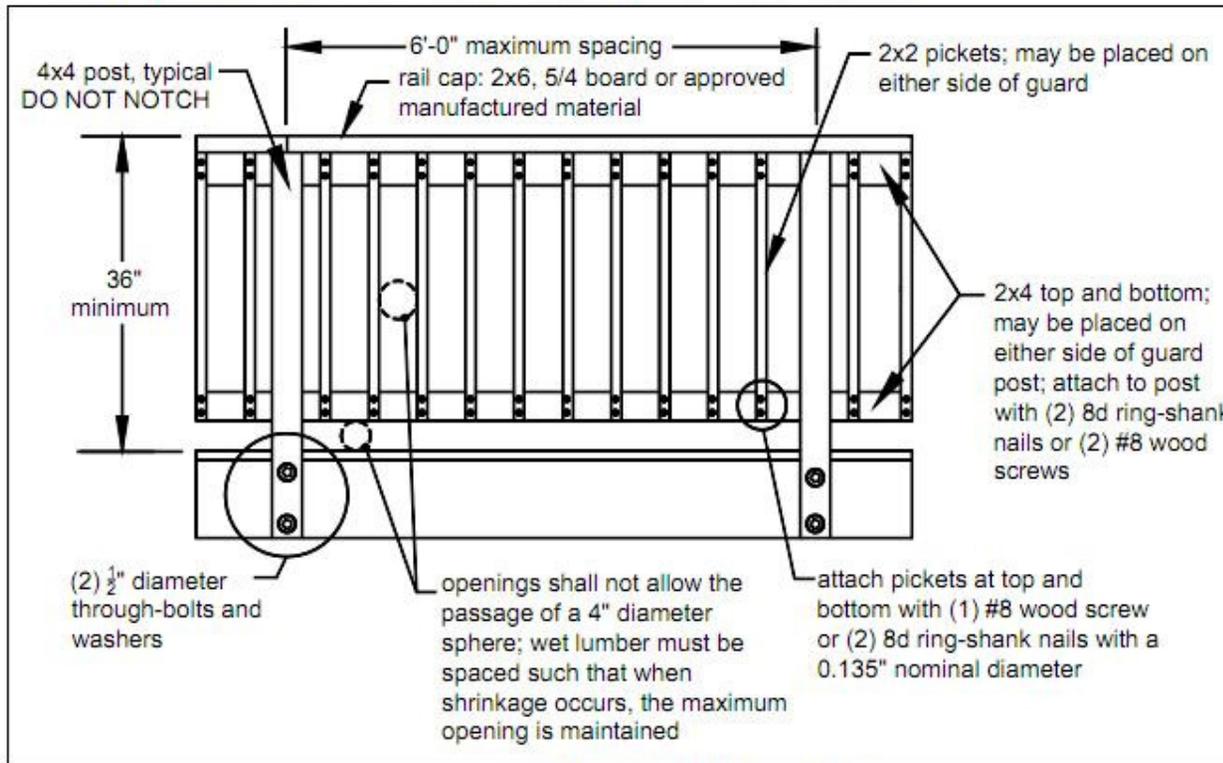
## 2009 International Residential Code

### Deck Details



#### GUARD REQUIREMENTS

All decks greater than 30" above grade are required to have a guard. If you are providing a guard when one is not required, it must meet these requirements. All guards shall be constructed in strict conformance with the details herein; any deviations require a plan submission.



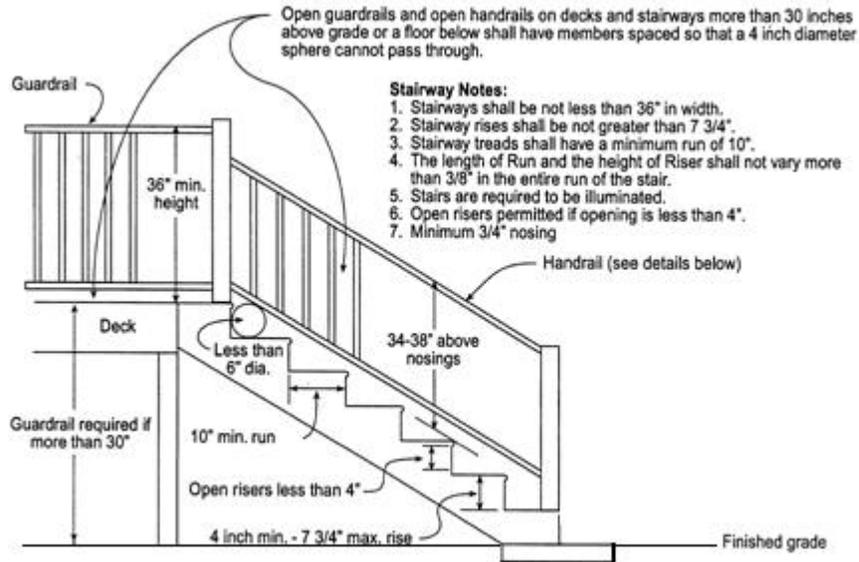
**TYPICAL GUARD DETAIL**



**PROHIBITED NOTCHING AT GUARD POSTS**

**UNLESS 6" x 6" POST**

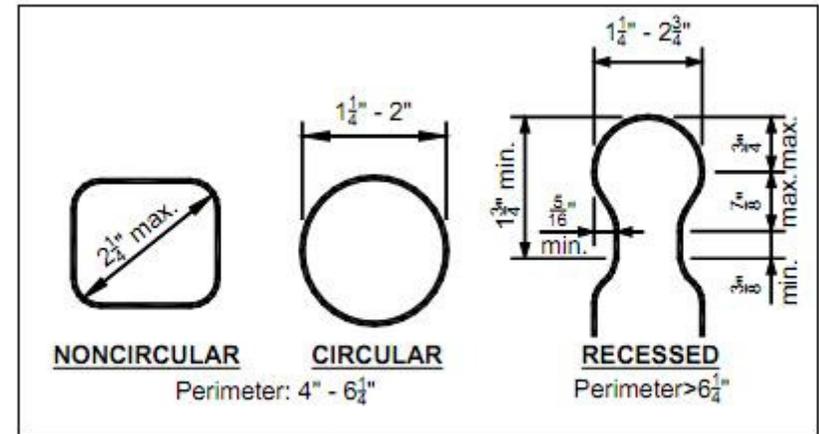
# STAIR AND HANDRAIL DETAIL



## TYPICAL STAIR

Stringers attached at top with non-corrosive metal straps or joist hangers and bottom on concrete pad.

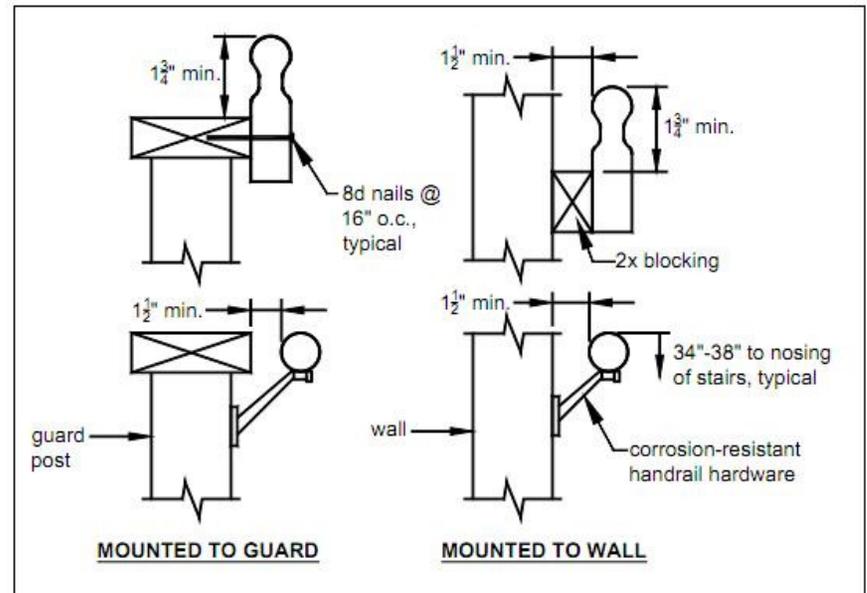
Stringers shall be a minimum of 3 - 2" x 12"



### HANDRAIL GRASPABILITY TYPES/GEOMETRY

## GRASPABLE HANDRAIL

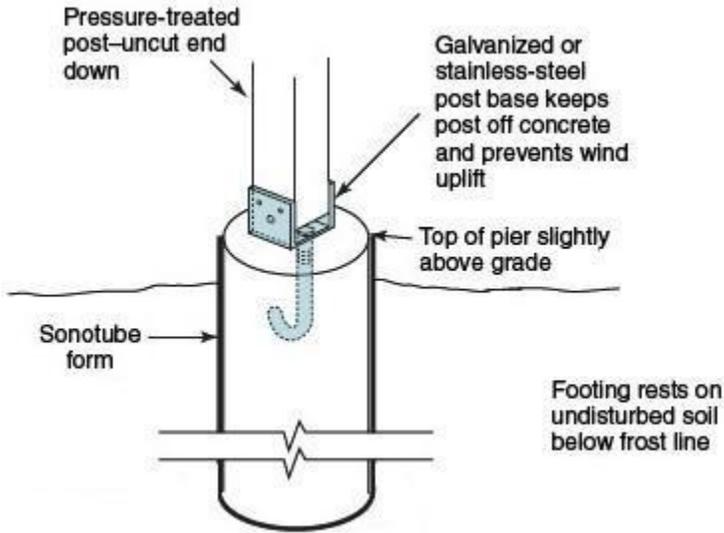
(Required minimum on one side)



### HANDRAIL REQUIREMENTS

# PIER/POST DETAIL

Minimum 10" diameter and 30" below grade

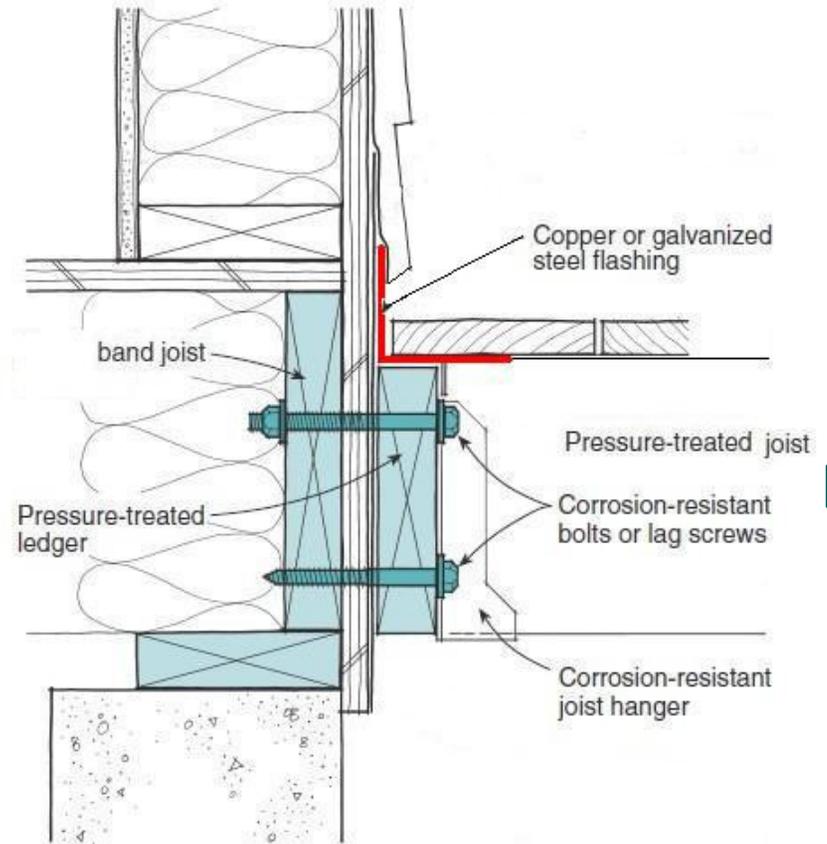


## 6" x 6" POSTS REQUIRED

(Decks 6' or more above grade)

# FLASHING DETAIL

(Non-Corrosive)



**LEDG**

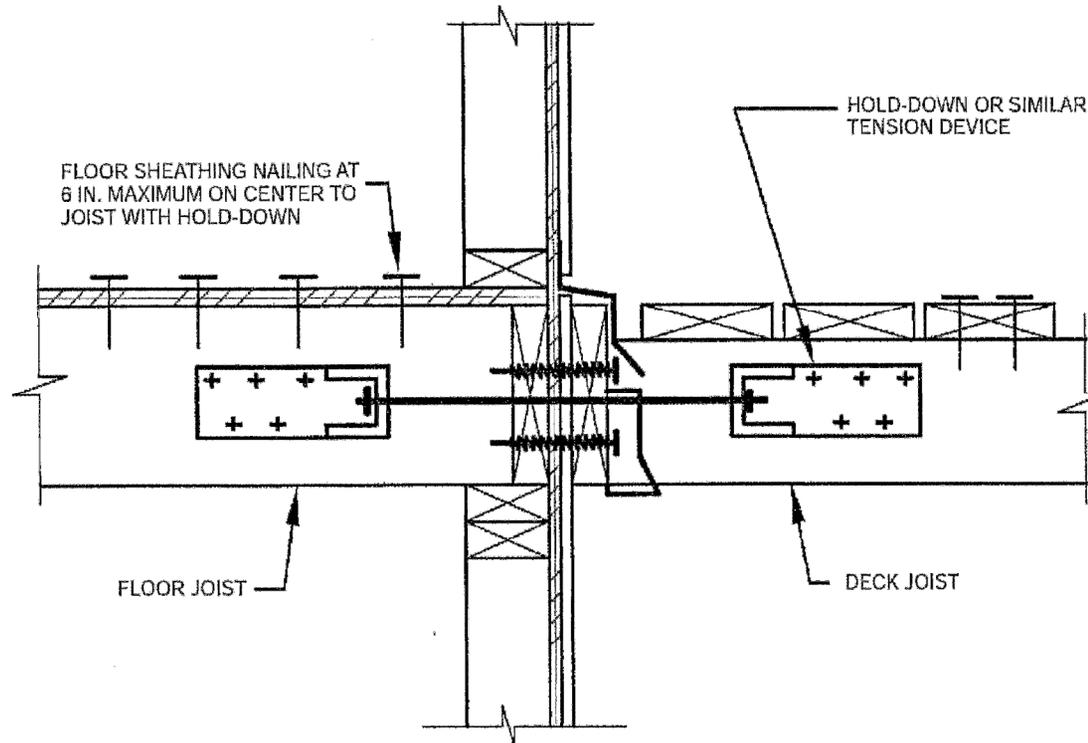
## 1/2" MINIMUM LEDGER BOLTS SPACING (staggered top/bottom)

- Deck Spans up 10'-0" - Bolts 16" on Center
- Deck Spans up 10'-1 to 12'-0" - Bolts 15" on Center
- Deck Spans up 12'-1 to 14'-0" - Bolts 13" on Center
- Deck Spans up 14'-1 to 16'-0" - Bolts 11" on Center
- Deck Spans up 16'-1 to 18'-0" - Bolts 10" on Center

# LEDGER LATERAL DECK ATTACHMENT DETAIL

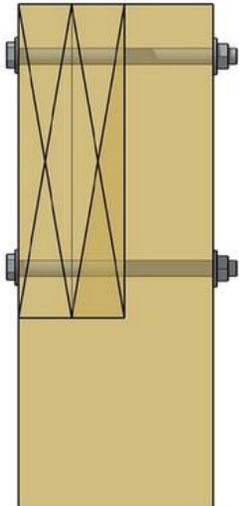
Minimum Two (2) per deck

Each device shall have an allowable stress design capacity of not less than 1500lb.



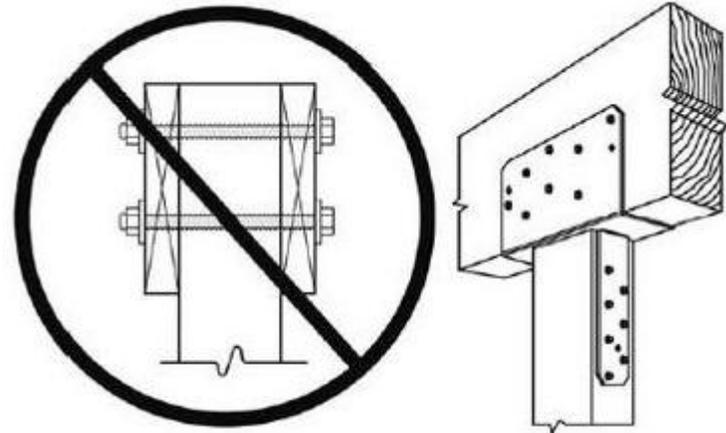
1.

FIGURE R502.2.2.3  
DECK ATTACHMENT FOR LATERAL LOADS



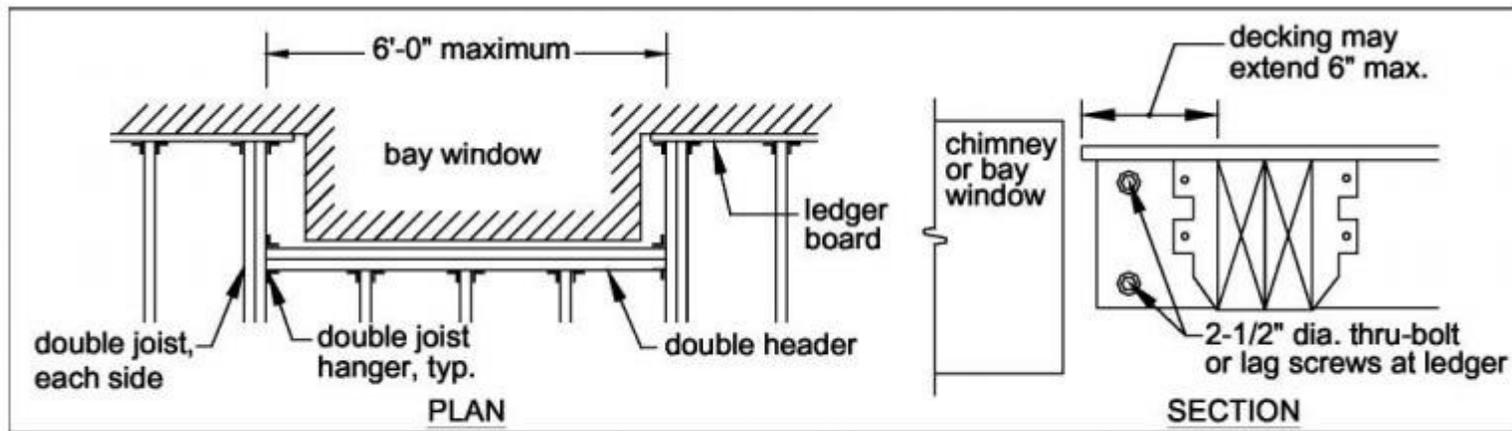
## 6" x 6" POST BEAM DETAIL

All posts/beams attached with two 1/2" through bolts.



## 4" x 4" POST BEAM DETAIL

Typical 4"x4" to BEAM connection

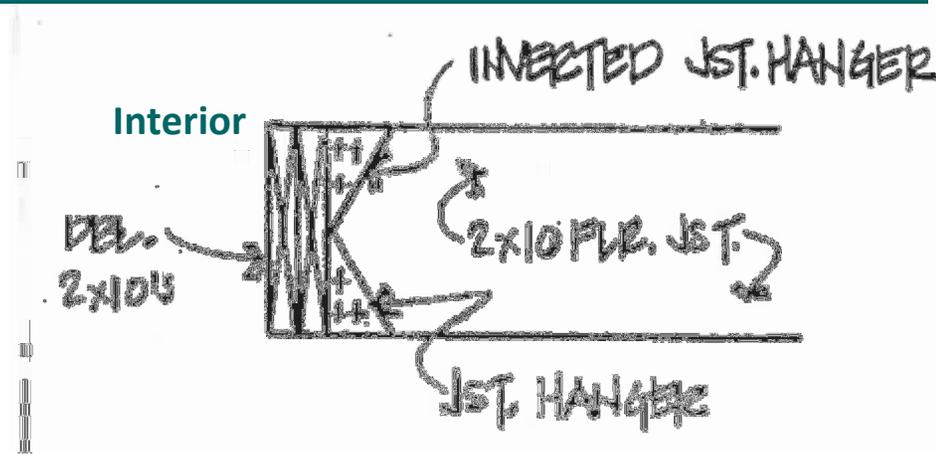


**REQUIREMENTS FOR FRAMING AT BAY WINDOW**

## DOUBLE JOIST "H" FRAME

Required at all bay windows or cantilevers

# CANTILEVER DESIGN WHEN PERPINDICULAR AND LOAD CARRIED BY INTERIOR DOUBLE JOISTS (Minimum 2/3 in 1/3 out)



SPAN TABLE (Treated Yellow Pine)

<b>JOIST SPAN TABLE</b>	<b>BEAM SPAN TABLE</b>
<b>Maximum Joist Span</b>	<b>Maximum Beam Span</b>
2x6s @ 16"      8' 6"	2—2x6s            6' 0"
2x6s @ 24"      7' 4"	2—2x8s            8' 0"
2x8s @ 16"      10' 6"	2—2x10s          10' 0"
2x8s @ 24"      8' 6"	2—2x12s          12' 0"
2x10s @ 24"     11' 0"	
2x10s @ 16"     13' 6"	
2x12s @ 16"     16' 6"	

## **\*\*ALL OVERHEAD ELECTRICAL WIRES\*\***

Electrical Wires over the deck and over an area projecting three (3) feet horizontally from the deck must be at least 10 feet above finished deck.

**ALL WOOD TO BE PRESSURE TREATED OR NATURALLY DURABLE**

**ALL FASTENERS AND METAL TO BE CORROSIVE RESISTANT**

**THESE DETAILS MAY NOT INCLUDE ALL DECK REQUIREMENTS  
AND SHOULD ONLY BE USED AS A GUIDE.**

(Updated August 25, 2014)