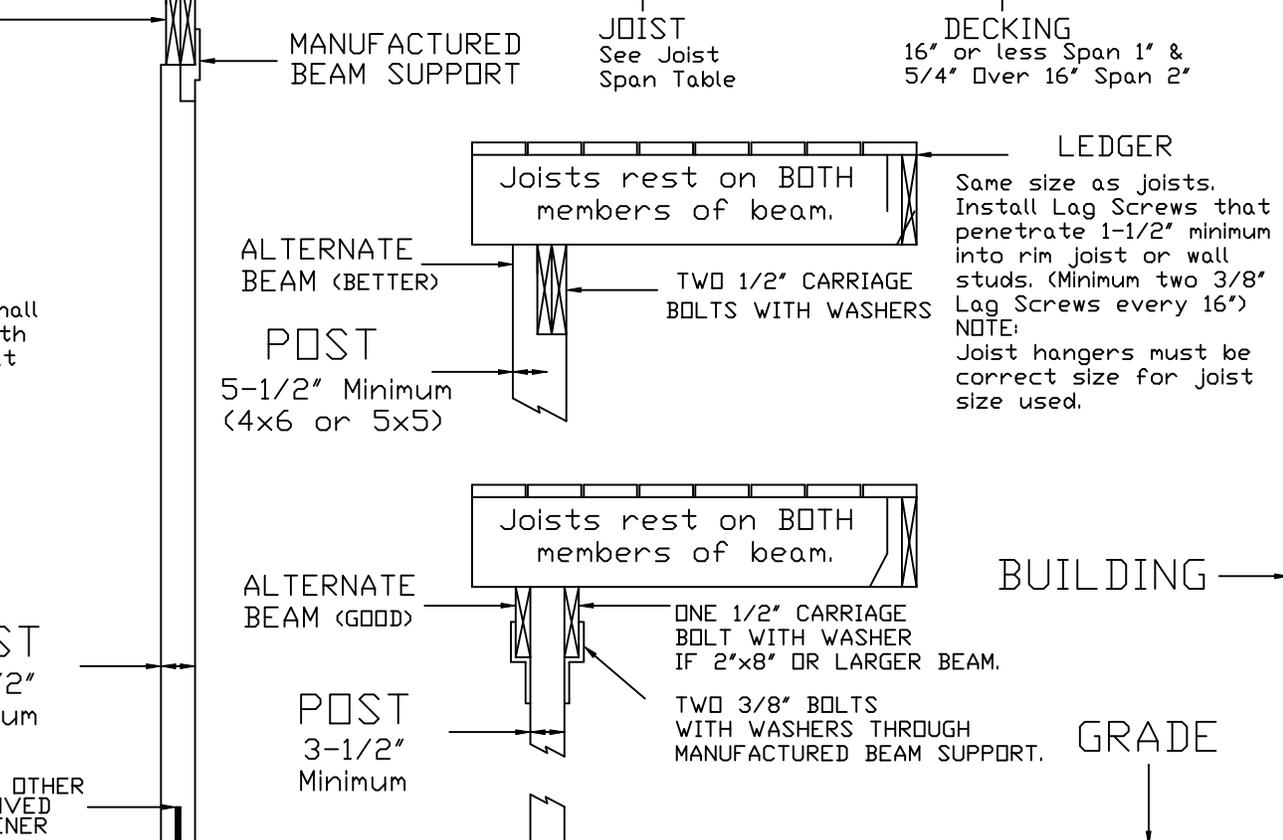


BEAM  
(BEST)  
See beam & footing table.

NOTES:  
Any splices in beam must be over a support. All beams of 2 or more members shall be nailed together with 2 rows of 16d nails at 16" O.C.



POST  
3-1/2" Minimum

PIN OR OTHER APPROVED FASTENER

CONCRETE PIER FOOTING

48" MIN.

See Table for Footing Size

ALTERNATE FOOTING

8"

See Table for Footing Size

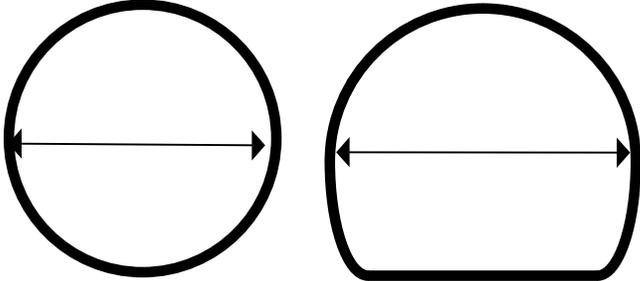
GRADE

## DECK INFORMATION AND REQUIREMENTS:

1. All decks with height of more than 24" are required to have guardrails with a height of not lower than 36". Spindles are also required with a spacing of not less than 4" between spindles. If adding on to existing deck, guardrails and spindle spacing must meet existing code requirements.
2. STAIR DETAILS. (a) Width. Stairs shall measure at least 36 inches in width. Handrails and associated trim may project no more than 4 ½ inches into the required width at each side of the stairs.  
(b) Treads and risers. 1. Except for spiral stairs and winders, risers may not exceed 8" inches in height measure vertically from tread to tread. Treads shall be at least 9" inches wide measured vertically from tread to tread. Treads shall be at least 9 inches wide measured horizontally from nosing to nosing. Note: This means the first tread stepping down from deck and the last tread stepping down to the ground must be uniform with other steps. Beware of the pre-cut stringers (steps) that you can purchase from your local retail center they might not meet code on the bottom step.
3. Within individual stairways, tread widths and riser heights may vary in uniformity by a maximum of 3/16th's of an inch.
4. HANDRAILS AND GUARDRAILS. Handrails or guardrails shall be provided on all open sides of stairs consisting of more than 3 risers and on all open sides of that are elevated more than 24 inches above the floor or exterior grade. Handrails and guardrails shall be constructed to prevent the through passage of a Sphere with a diameter of 4 inches or larger. Handrails and guardrails shall be designed and constructed to withstand a 200-pound load applied in any direction. Exterior handrails and guardrails shall be constructed of metal; decay resistant or pressure treated wood, or shall be protected from the weather.
5. Height. Handrails shall be located at least 30 inches, but no more than 38 inches above the nosing of the treads. Handrails also must be graspable, see attached sheet for examples. Measurements shall be taken from the hard structural surface beneath any finish material to the top of the rail. Variations in uniformity are allowed only when a rail contacts a wall or newel post or where a turnout or volute is provided at the bottom steps.
6. Decks that are fastened to the house are required to have footing. Footing must be 48" in depth and can be round or of a block design. Design footing for anticipated load such as future roof.
7. Decks that are free standing and not attached to the house may set on concrete piers and must be properly cross-braced. Concrete piers shall be located on undisturbed or compacted soil, free of organic material. (Black Dirt)

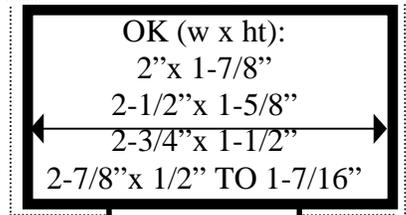
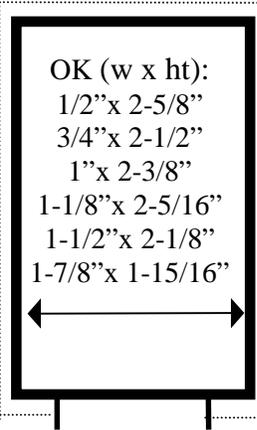
# 21.04(2)(a)5. HANDRAIL SHAPES

## ROUND



**MAXIMUM 2''  
DIAMETER**

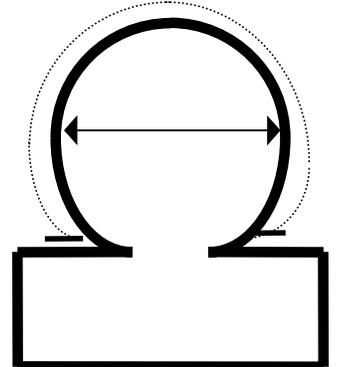
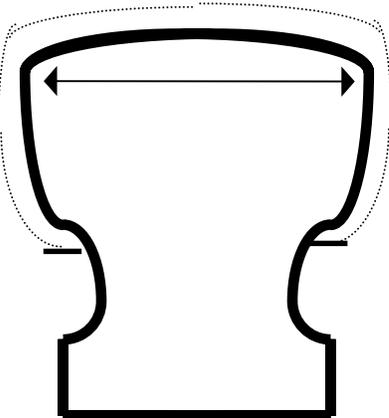
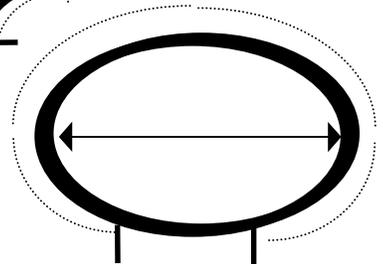
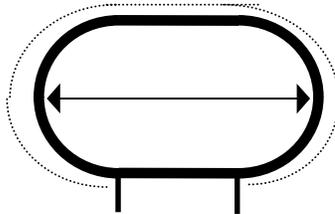
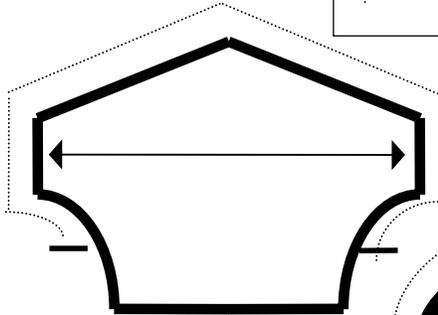
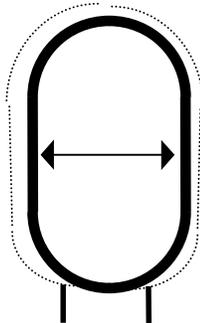
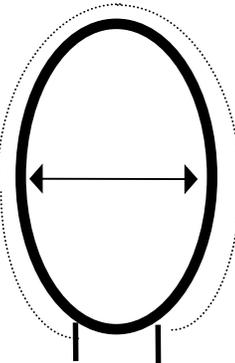
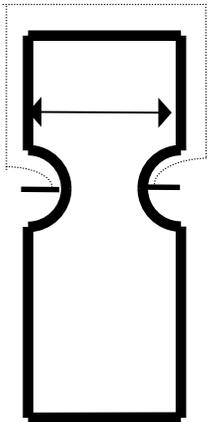
## RECTANGULAR



**MAXIMUM 2-7/8''  
CROSS SECTION**

**MAX. 6-1/4''  
GRIPPING  
SURFACE INCL.  
MIN. 1/4''  
RECESS ON  
EACH SIDE**

## OTHERS



**MAXIMUM 2-7/8''  
CROSS SECTION**

**4'' TO 6-1/4'' GRIPPING  
SURFACE, INCLUDING A  
MIN. 1/4'' RECESS ON  
EACH SIDE**