

REQUIREMENTS FOR NEW HANDRAILS

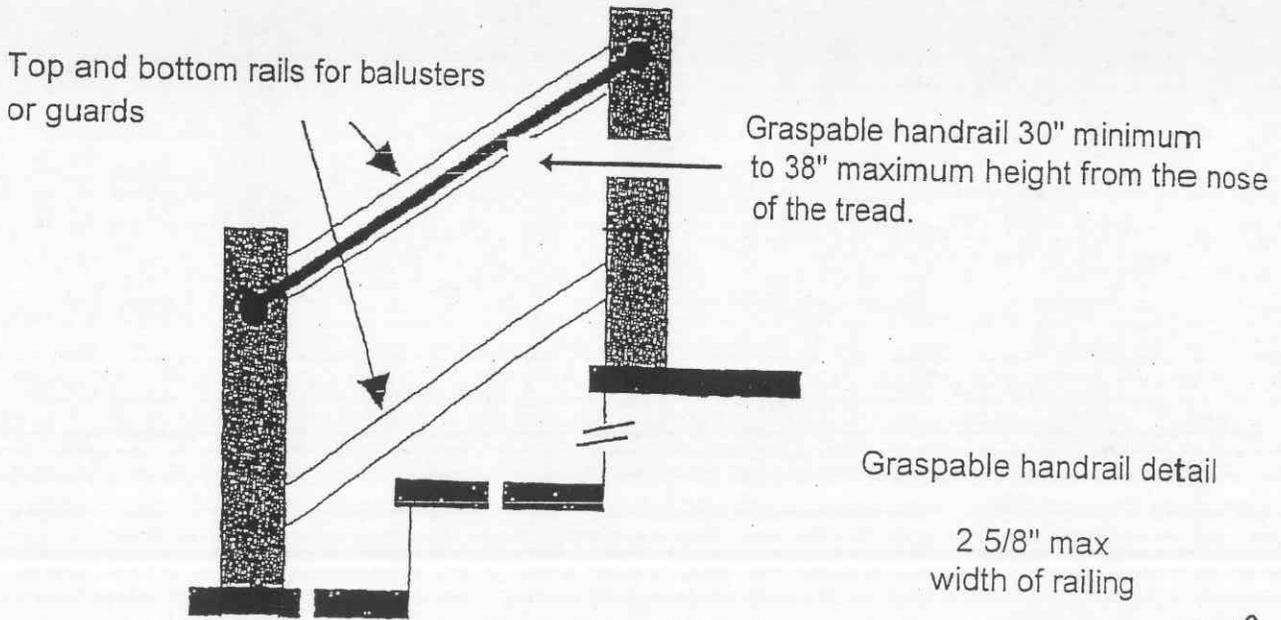
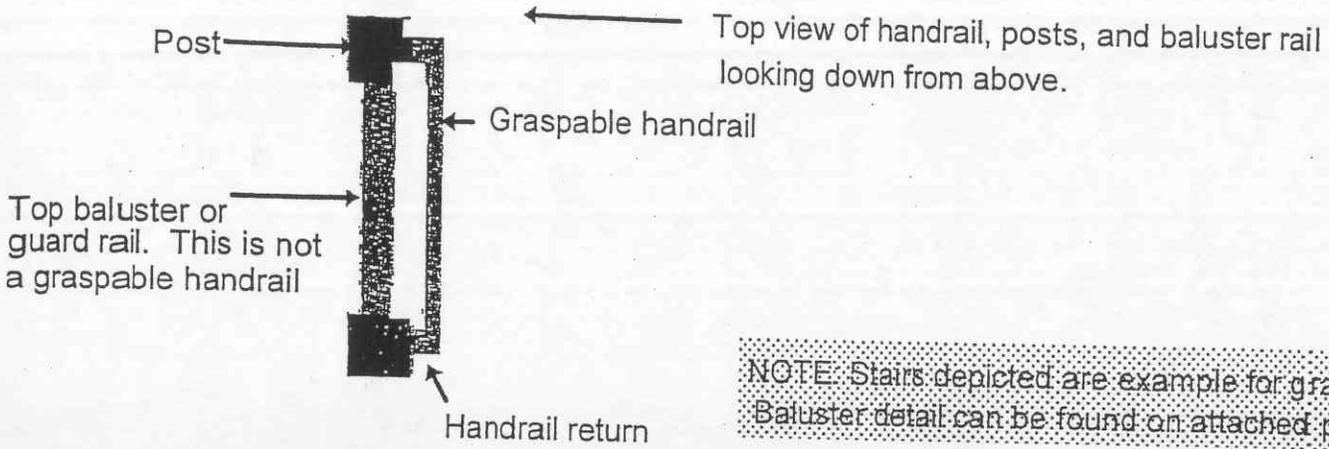
DRAWINGS MUST INDICATE:

1. HEIGHT FROM GRADE TO LANDING
2. HEIGHT OF HANDRAIL AND GUARDRAIL
3. SPACING BETWEEN BALUSTER
4. LOCATION OF STAIR WHERE NEW HANDRAIL IS INSTALLED
(FRONT, REAR, SIDE YARD)
5. HANDGRIPS MUST BE INSTALLED ON ONE SIDE OF HANDRAIL
6. PLEASE REVIEW OFFICE HANDOUT FOR DETAILS
7. ENDS SHALL BE RETURNED TO WALL OR POST

BUILDING SUBCODE OFFICIAL

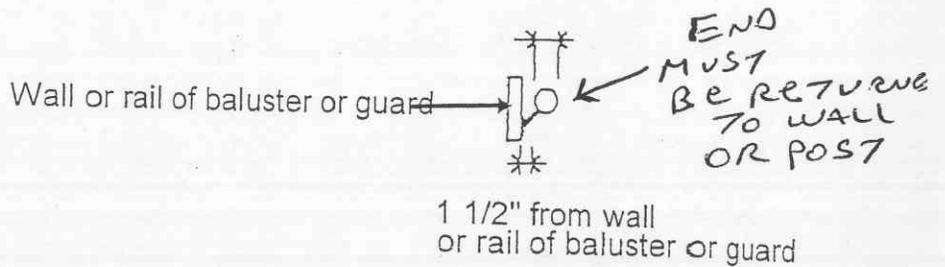
Graspable handrail detail

Exposed exterior wood, ground or concrete contacting wood must be pressure treated or equal.



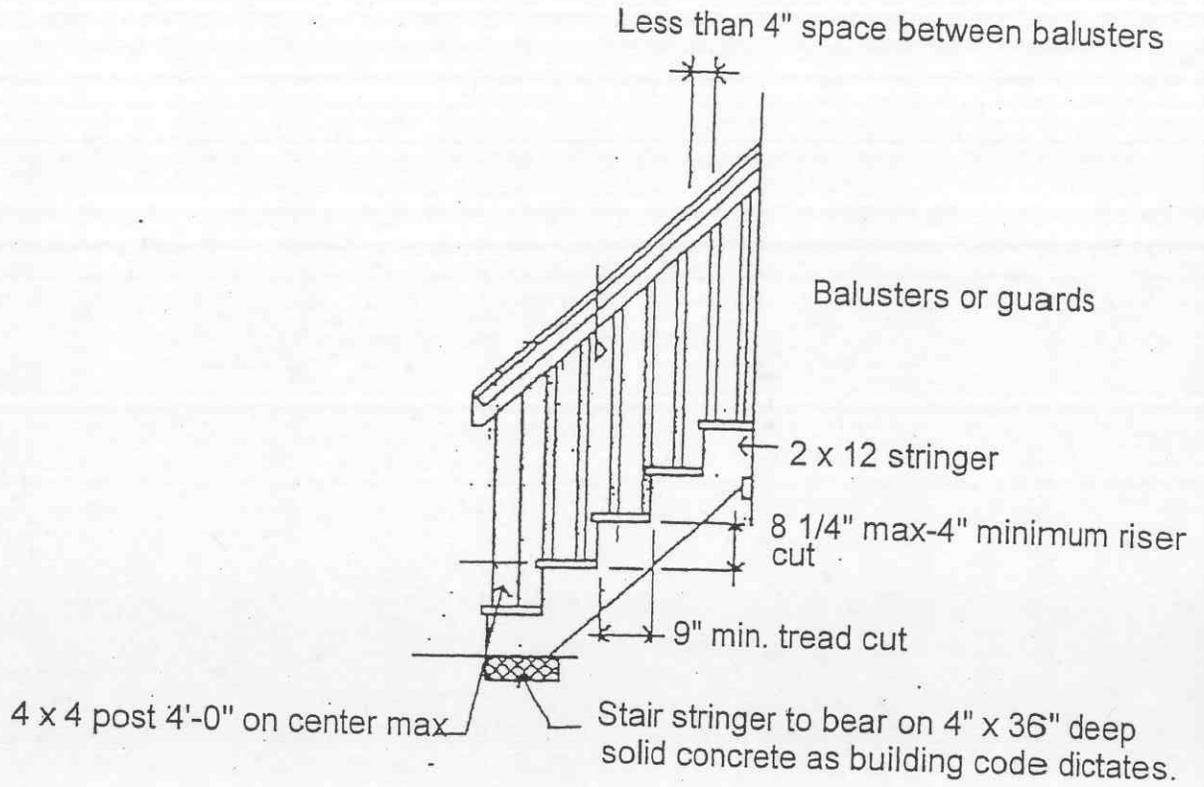
Graspable handrail detail

2 5/8" max width of railing



TYPICAL STAIR AND BALUSTER OR GUARD DETAIL

Exposed exterior wood, ground or concrete contacting wood must be pressure treated or equal.



number of risers may vary with grade

SECTION R314 STAIRWAYS

R314.1 Width. Stairways shall not be less than 36 inches (914 mm) in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches (114 mm) on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31.5 inches (787 mm) where a handrail is installed on one side and 27 inches (686 mm) where handrails are provided on both sides.

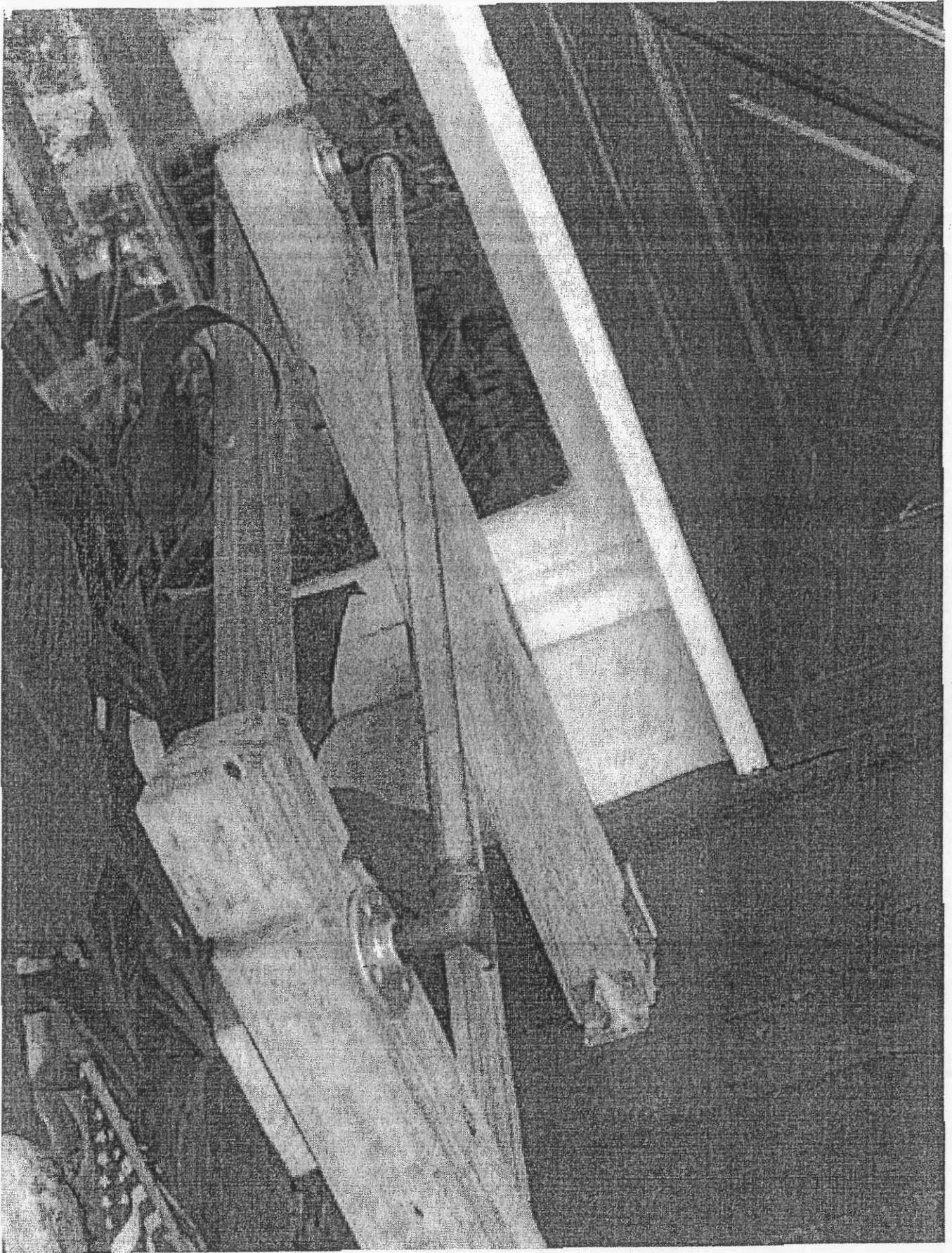
Exception: The width of spiral stairways shall be in accordance with Section R314.5.

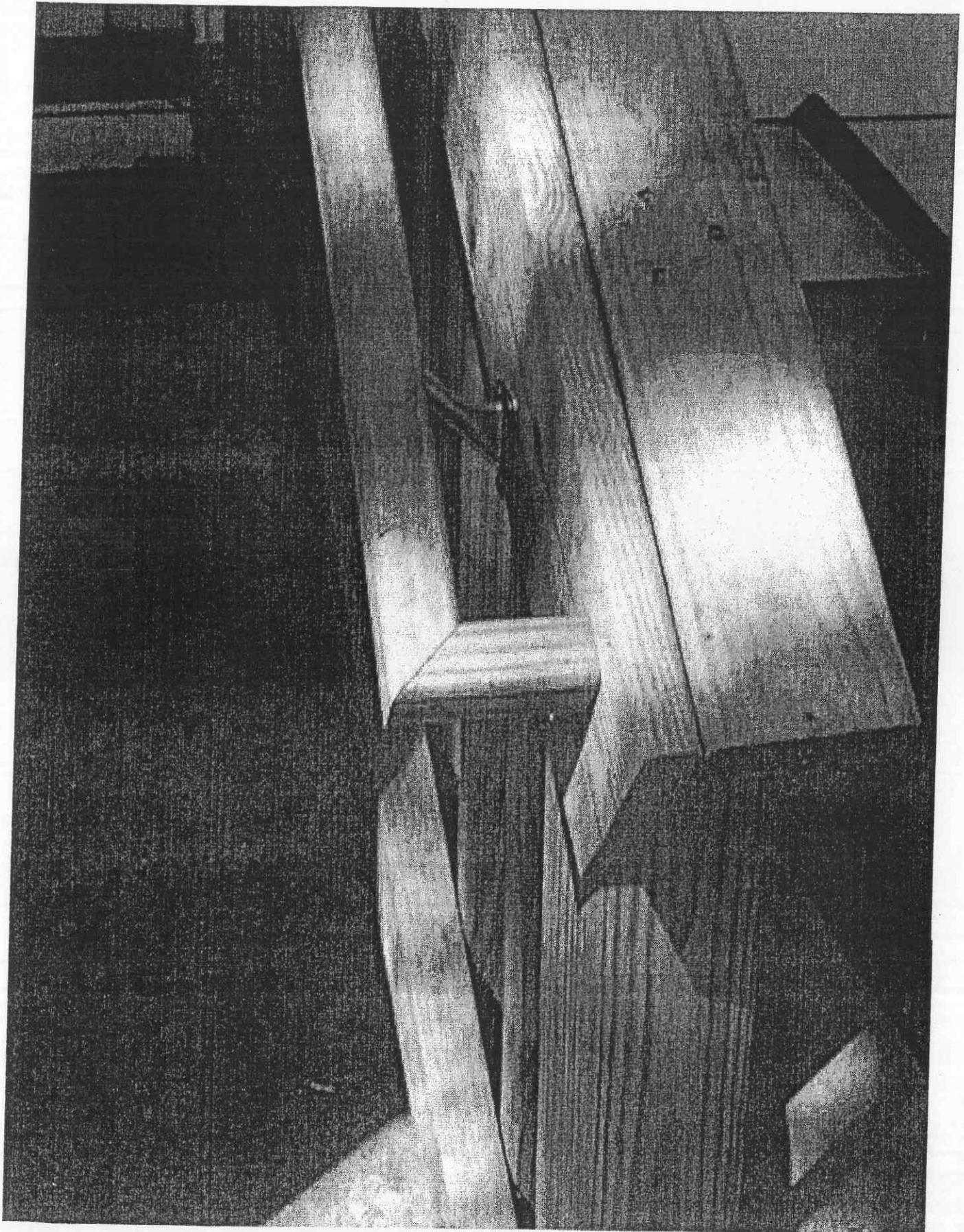
R314.2 Treads and risers. The maximum riser height shall be $8\frac{1}{4}$ inches (210 mm) and the minimum tread depth shall be 9 inches (229 mm). The riser height shall be measured vertically between leading edges of the adjacent treads. The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The walking surface of treads and landings of a stairway shall be sloped no steeper than one unit vertical in 48 units horizontal (2-percent slope). The greatest riser height within any flight of stairs shall not exceed the smallest by more than $\frac{3}{8}$ inch (9.5 mm). The greatest tread depth within any flight of stairs shall not exceed the smallest by more than $\frac{3}{8}$ inch (9.5 mm).

R314.2.1 Profile. The radius of curvature at the leading edge of the tread shall be no greater than $\frac{9}{16}$ inch (14.3 mm). A nosing not less than $\frac{3}{4}$ inch (19.1 mm) but not more than $1\frac{1}{4}$ inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection shall not exceed the smallest nosing projection by more than $\frac{3}{8}$ inch (9.5 mm) between two stories, including the nosing at the level of floors and landings. Beveling of nosing shall not exceed $\frac{1}{2}$ inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading edge of the tread above at an angle not more than 30 degrees from the vertical. Open risers are permitted, provided that the opening between treads does not permit the passage of a 4-inch-diameter (102 mm) sphere.

Exceptions:

1. A nosing is not required where the tread depth is a minimum of 11 inches (279 mm).
2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches (762 mm) or less.





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