

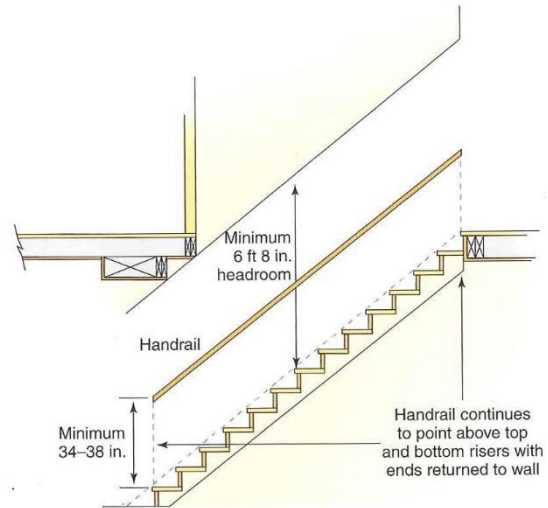
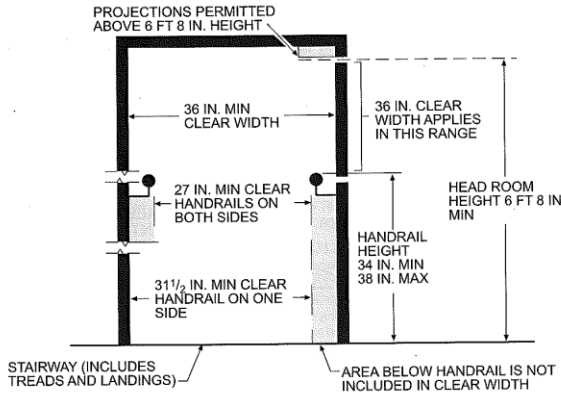
PROJECT INFORMATION:

The following is a guideline to assist in compliance with the requirements of the MN State Building Code.

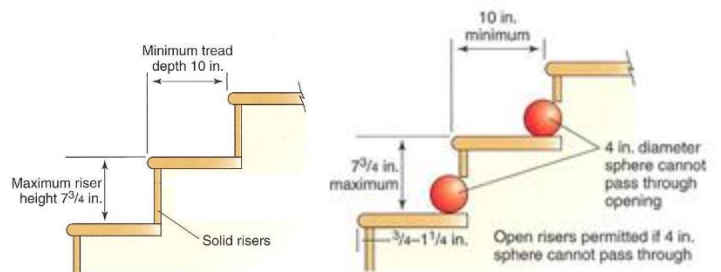
- Before you build, check required setbacks established by your municipality.
- BEFORE DIGGING, CALL "GOPHER STATE ONE CALL" AT 811. The person doing the excavation is responsible for verifying that there are no conflicts with utilities, both public and private.

STAIRWAYS

- Minimum stairway width measured above handrail-36"



- Headroom-minimum 6'-8"
- Riser height-maximum 7 3/4"
- Tread depth-minimum 10"
- Maximum 3/8" between tallest and shortest riser
- Maximum 3/8" between greatest and smallest tread
- Open risers must prevent passage of 4" sphere
- Nosing projection-minimum 3/4", maximum 1 1/4"

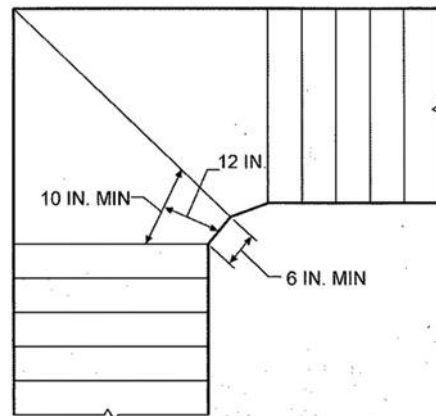


Winding stairs

- Walkline concentric to & 12" from narrow side
- Tread depth-minimum 6" at narrow side
- Tread depth-minimum 10" at walkline
- Dimensional uniformity required at walkline

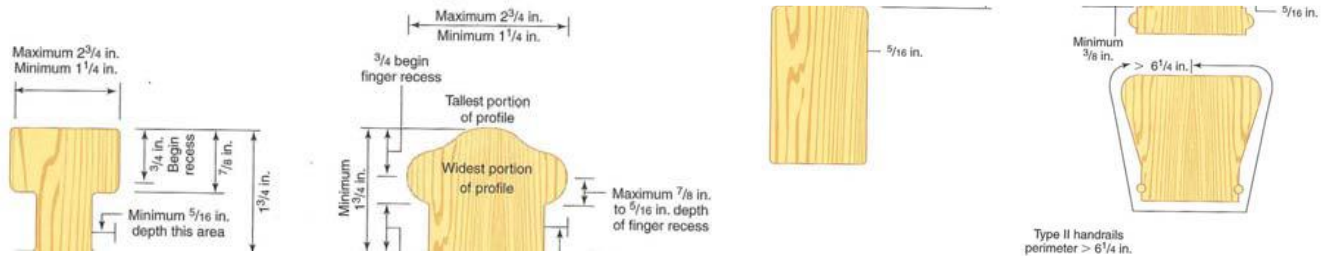
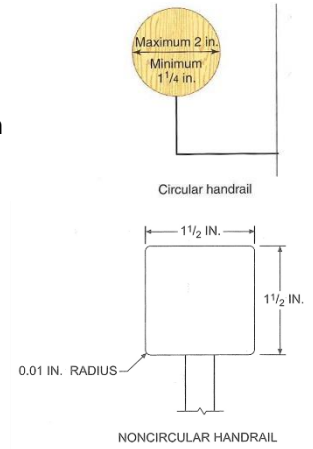
LANDINGS AT STAIRWAYS

- Minimum width no less than the width of the flight served
- Minimum 36" deep landing required at top & bottom of each stair flight
- Max vertical rise between floors or landings-151"



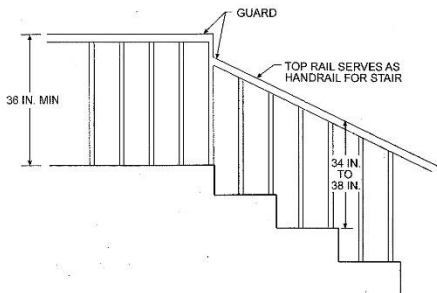
HANDRAILS

- Required on at least one side of flights of stairs with four or more risers
- Top of handrail 34"-38" above line connecting nosing of stairs
 - Volute, turnout, or starting easing OK over lowest tread
 - Fitting or bending OK to exceed maximum height at continuous transition between flights, start of flight, or from handrail to guard
- Ends must return to wall, post or safety terminal
- Minimum 1 1/2" space between handrail and wall
- Handrail must be continuous from top riser to bottom riser
 - Maybe interrupted by post at the turn
- Round handrails minimum 1 1/4"-maximum 2" diameter
- Non-round Type I handrails perimeter 4"-6 1/4"
- If perimeter is greater than 6 1/4", grippable finger recess required on both sides of profile



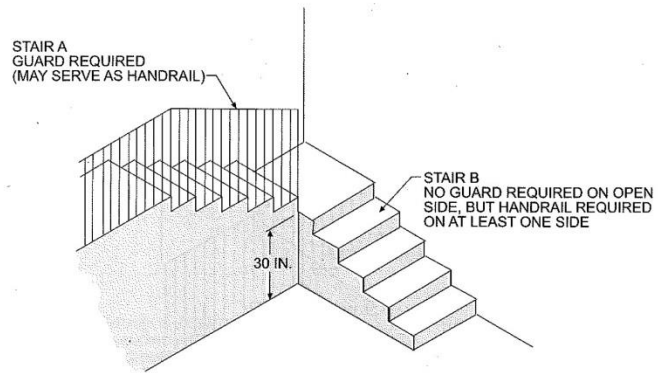
Guardrails

- Required for open-sided walking surface, including stairs, greater than 30" above floor or grade below
- Minimum 36" in height (34" acceptable on open side of stairs)
- Guard acting as handrail 34"-38" above line connecting nosing of treads
- Openings must prevent passage of 4" sphere
 - 6" at triangular opening of riser, tread, & bottom rail
 - 4 3/8" at open sides of stairs



For SI: 1 inch = 25.4 mm.

Figure R312.1(3)
STAIRWAY GUARD



For SI: 1 inch = 25.4 mm.

Figure R312.1(2)
STAIRWAY GUARD

Illumination

- All interior and exterior stairways shall be provided with a means to illuminate the stairs, landings, and treads.
- **Interior stairways**
 - Artificial light source located in the immediate vicinity of each landing of the stairway
 - Capable of illuminating treads and landings not less than 1 foot candle (11 lux)
 - Wall switch required at each floor level, where stairway has six or more risers
- **Exterior stairways**
 - Artificial light source required in the immediate vicinity of the top landing of the stairway
 - Artificial light source located in the immediate vicinity of the bottom landing if the exterior stairway provides access to a basement from the outside grade level
 - Illumination is expected to be controlled from inside the dwelling unit