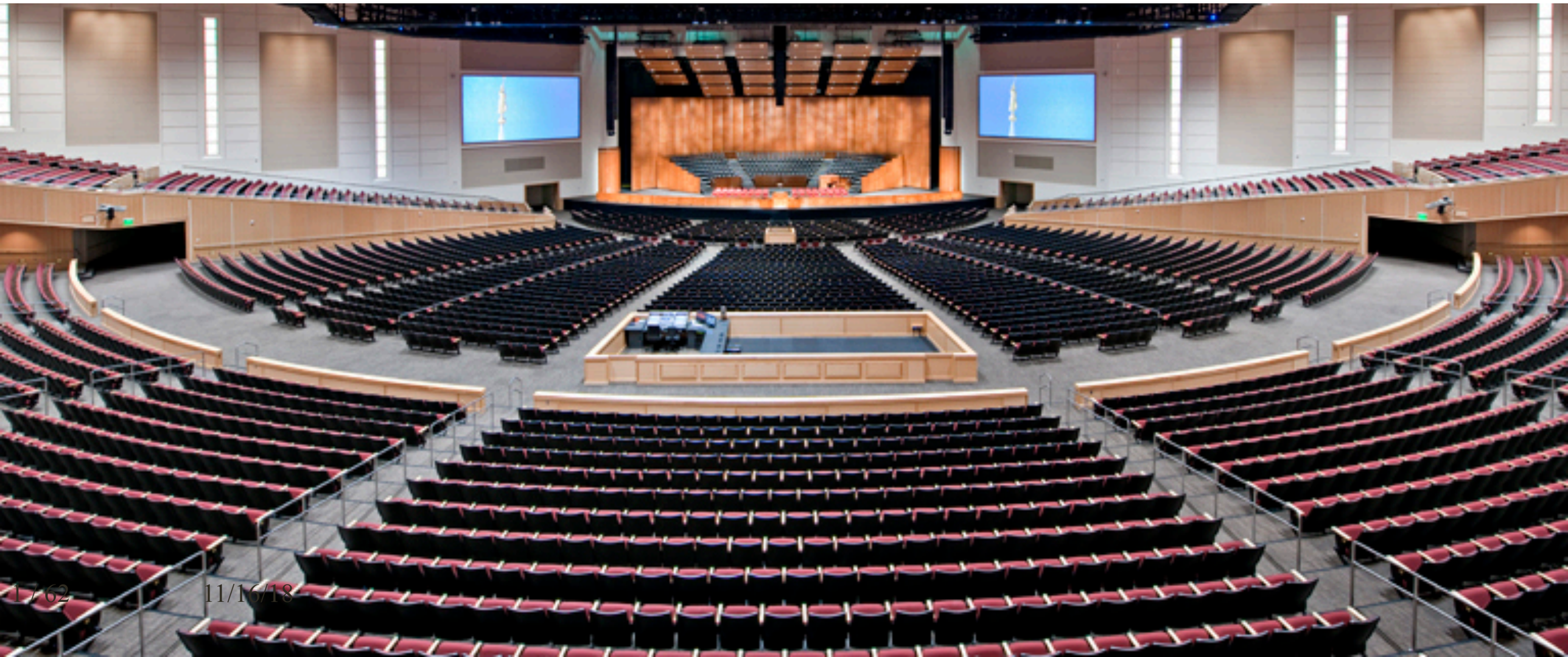
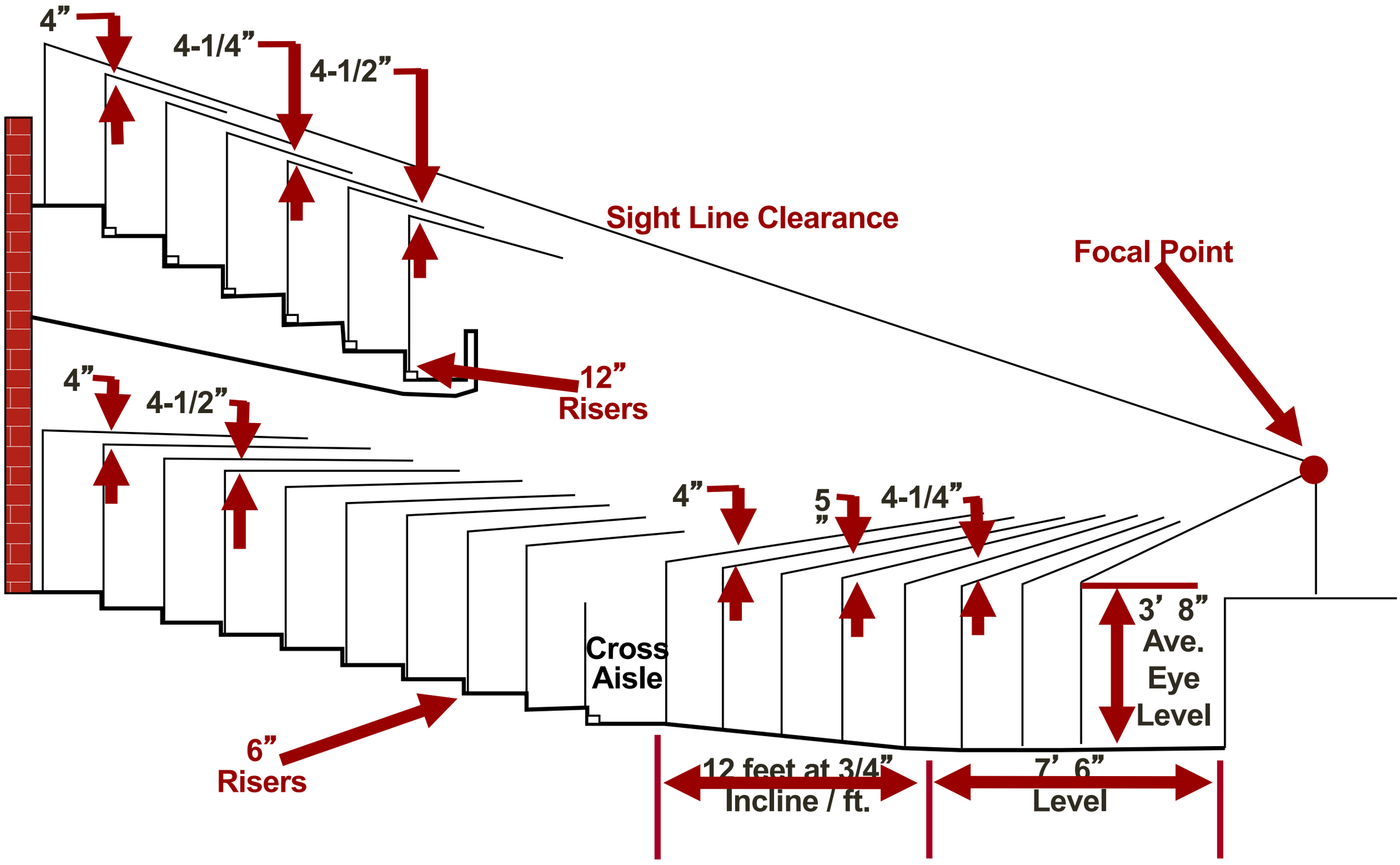
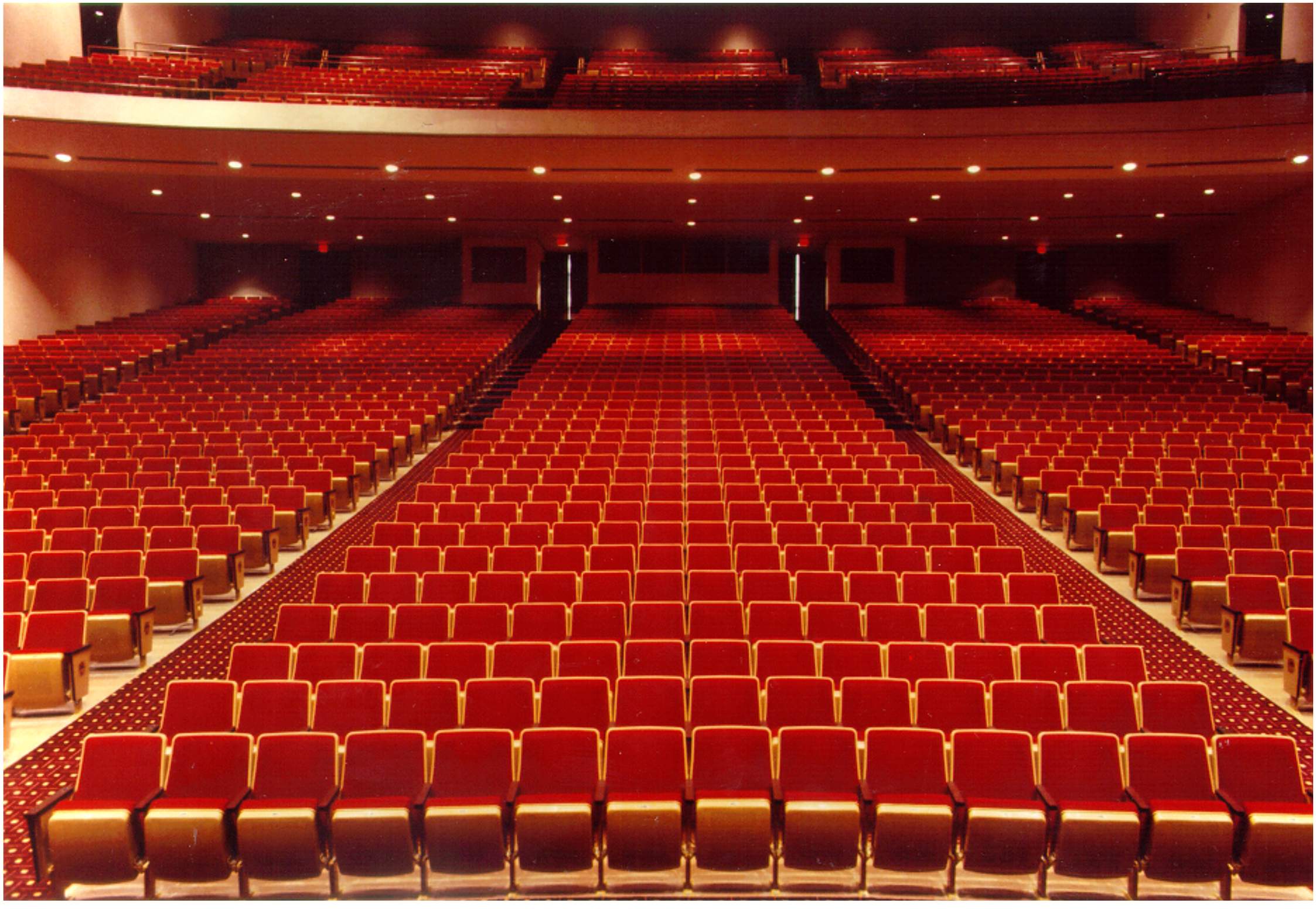
Sightlines



Sightlines


4”
4-1/4”
4-1/2”
Sight Line Clearance
Focal Point
12”
Risers
4”
4-1/2”
4”
5”
4-1/4”
Cross
Aisle
3’ 8”
Ave.
Eye
Level
6”
Risers
12 feet at 3/4”
Incline / ft.
7’ 6”
Level

Sightlines



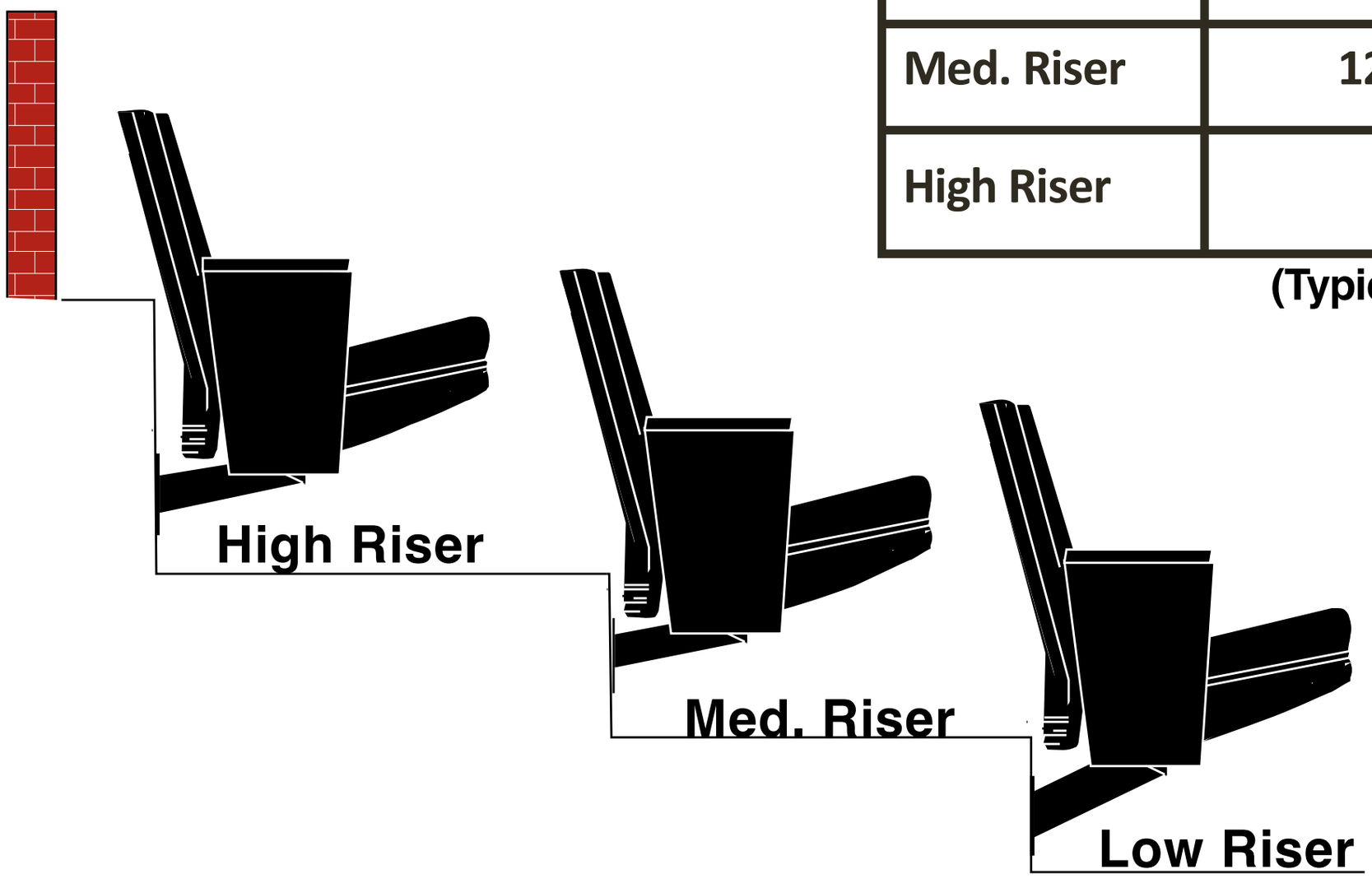
Sightlines

Mounting on Treads & Risers

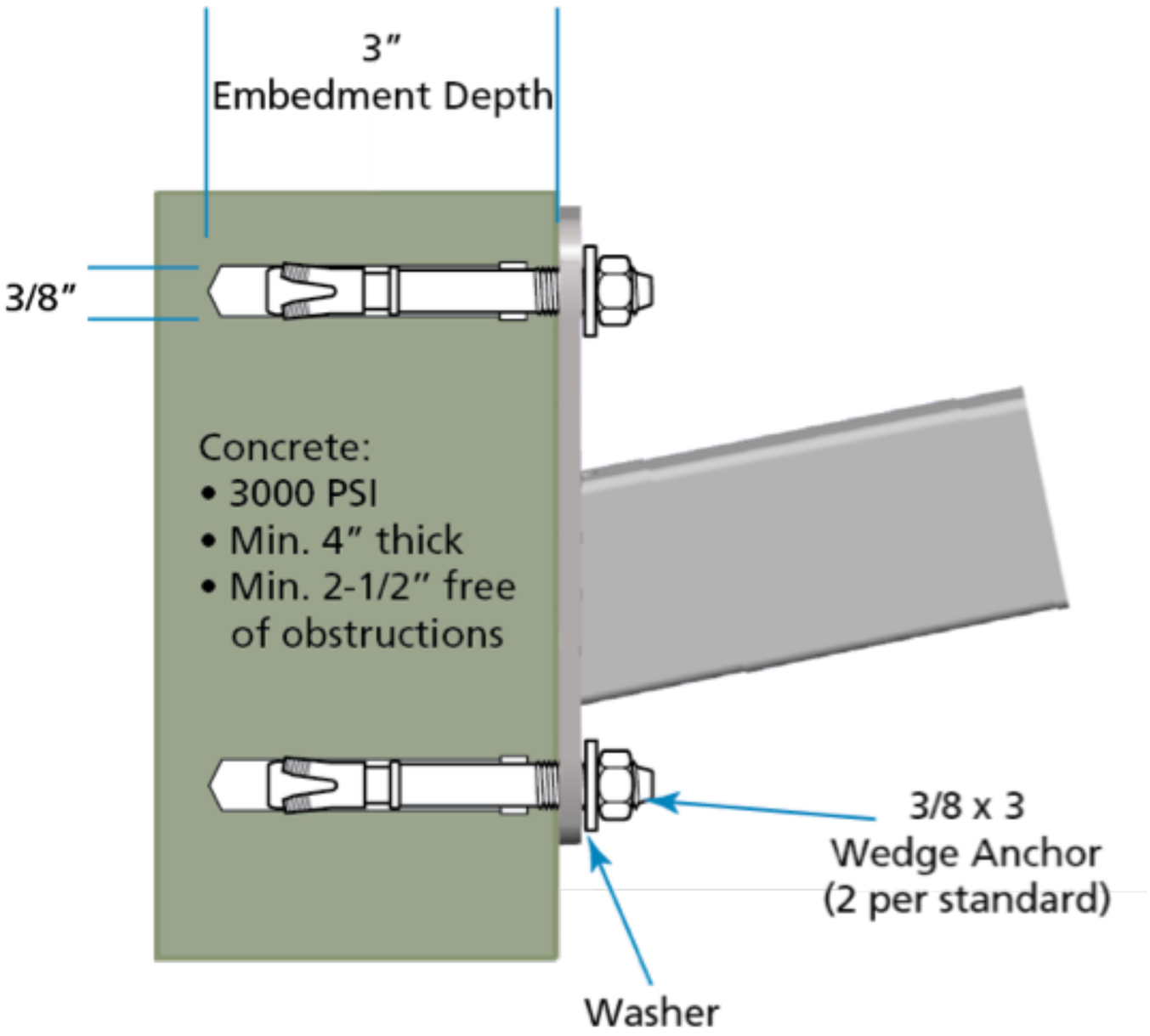
Tread & Riser Mounting

Riser Type	Riser Height Range
Low Riser	4-1/2” to 12-1/2”
Med. Riser	12-1/2” to 16”
High Riser	16” to 21”

(Typical Steel Standards)



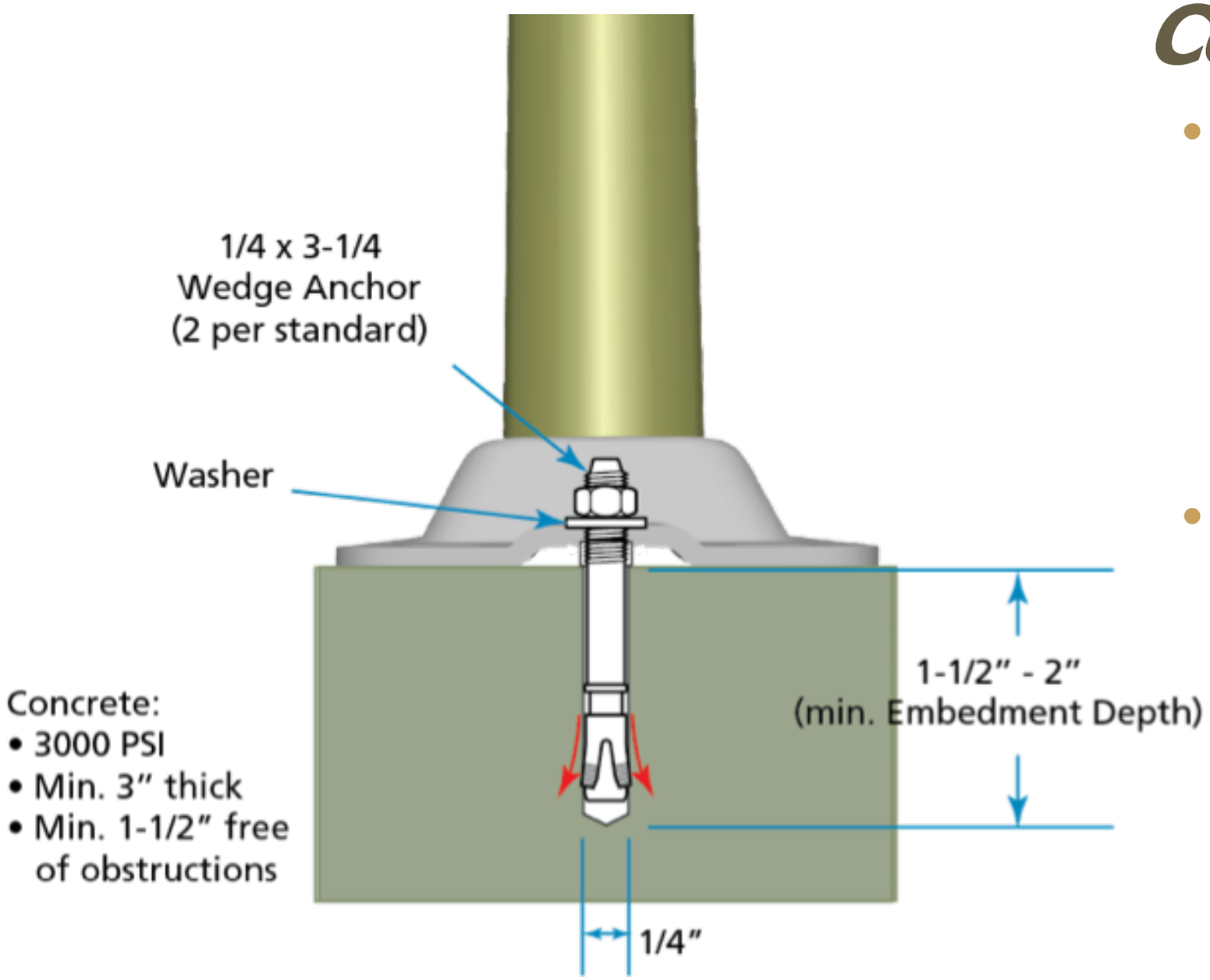
Tread & Riser Mounting



Concrete:

- **For riser mounted chairs 4” concrete with 2-1/2” from riser face free from obstructions.**
- **Riser plumb ±1/8”.**
- **Compressive strength of 3,000 PSI.**

Tread & Riser Mounting

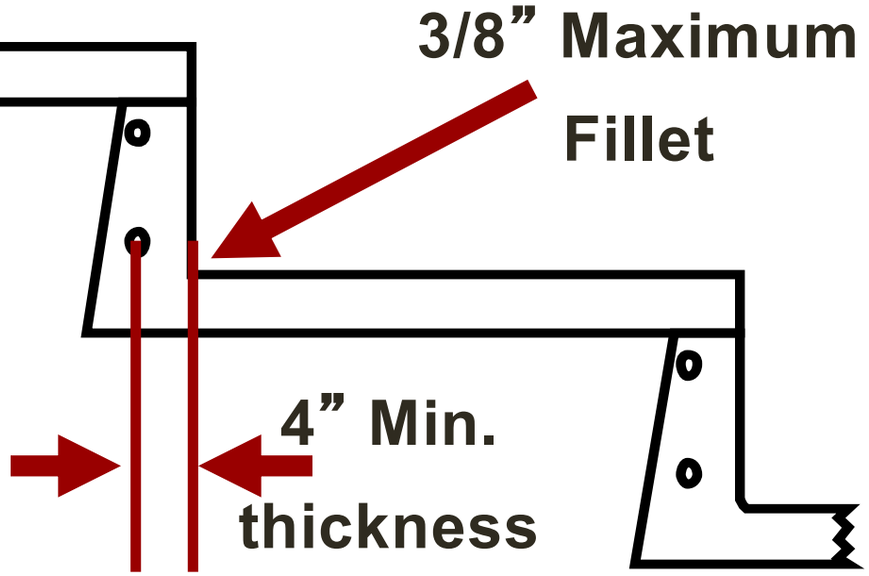


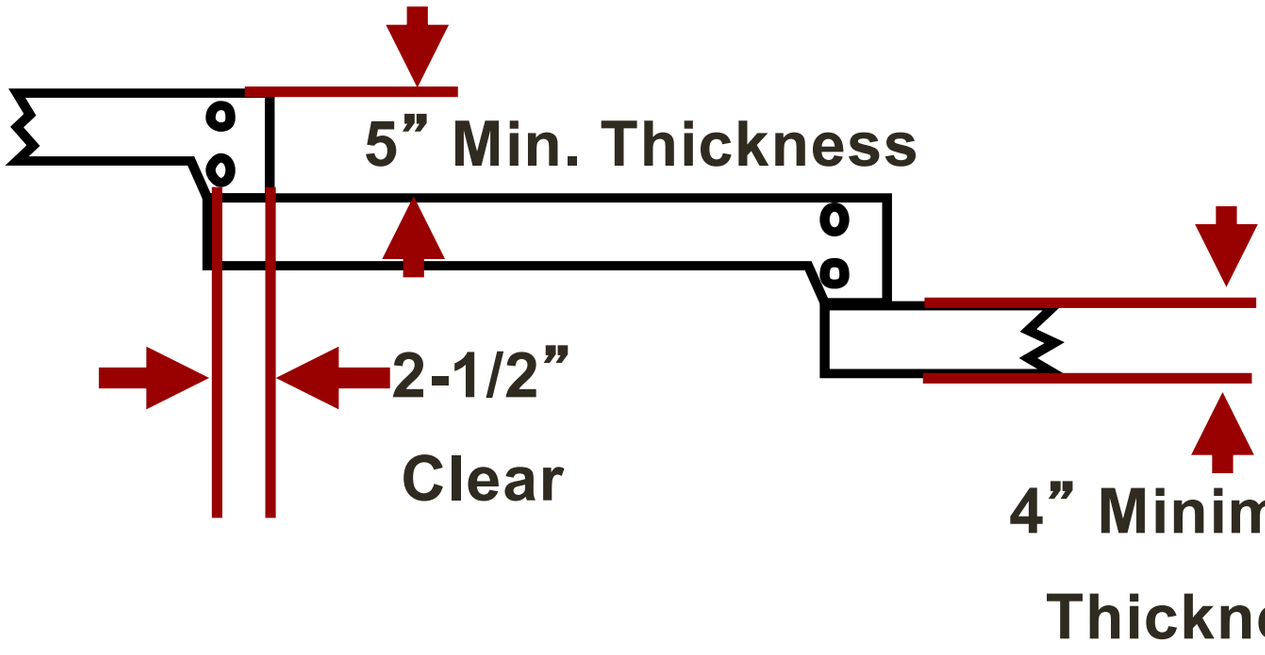
Concrete:

- **For floor mounted chairs 3" concrete with top 1-1/2" free from any obstructions.**
- **Compressive strength of 3,000 PSI.**

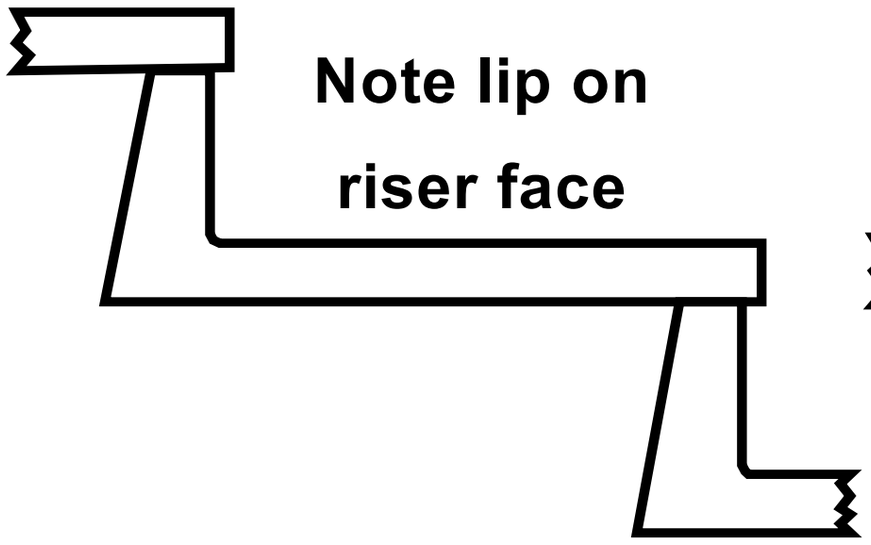
Tread & Riser Mounting

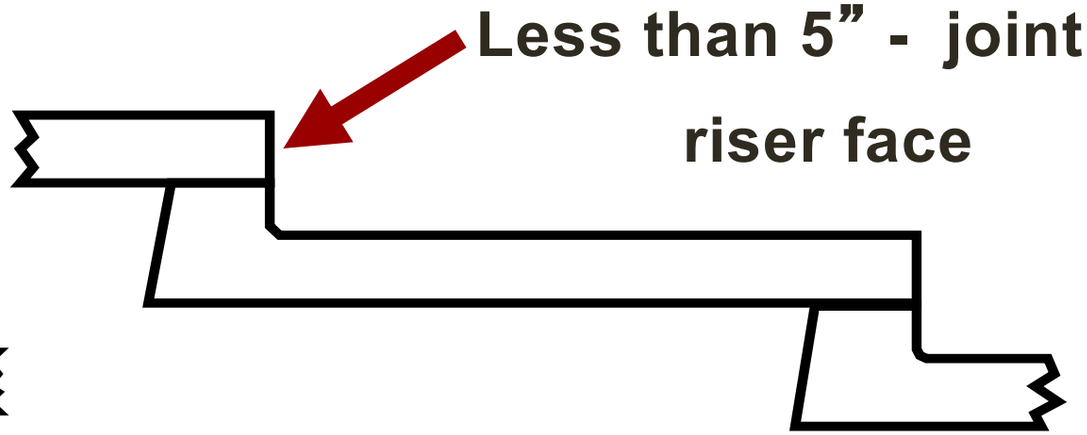
Correct





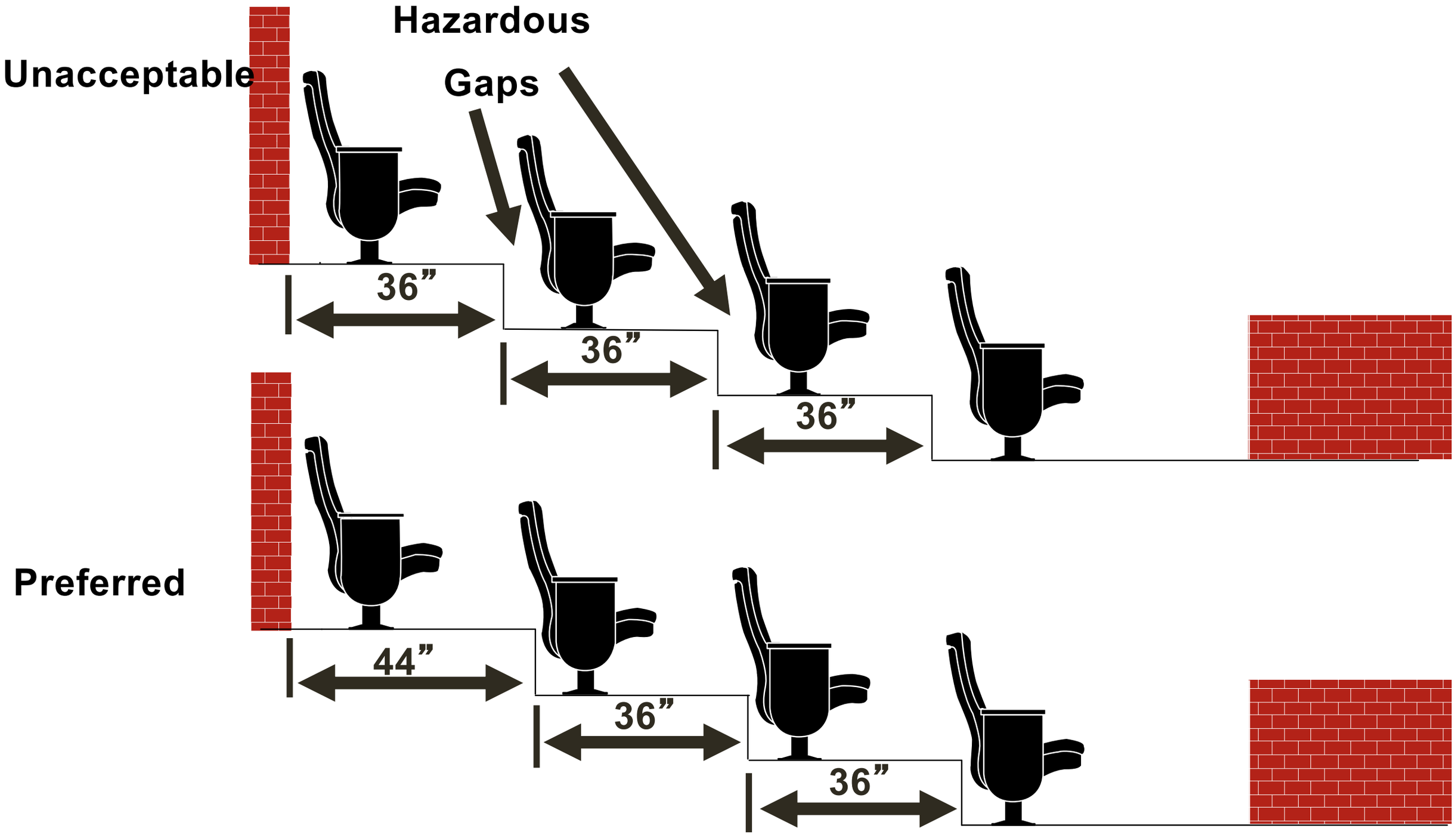
Incorrect



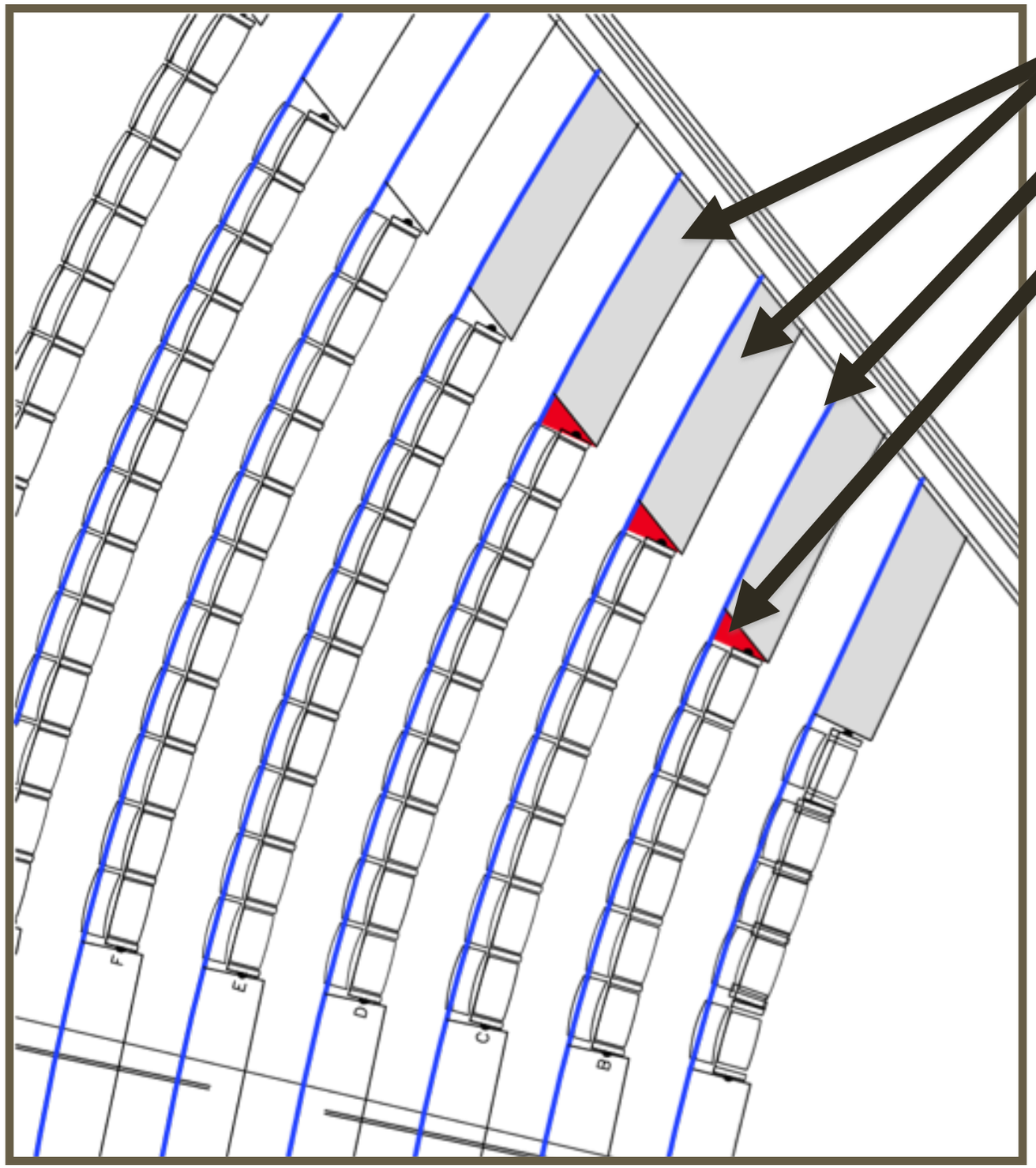


Additional Issues

Vertical Obstruction Problems



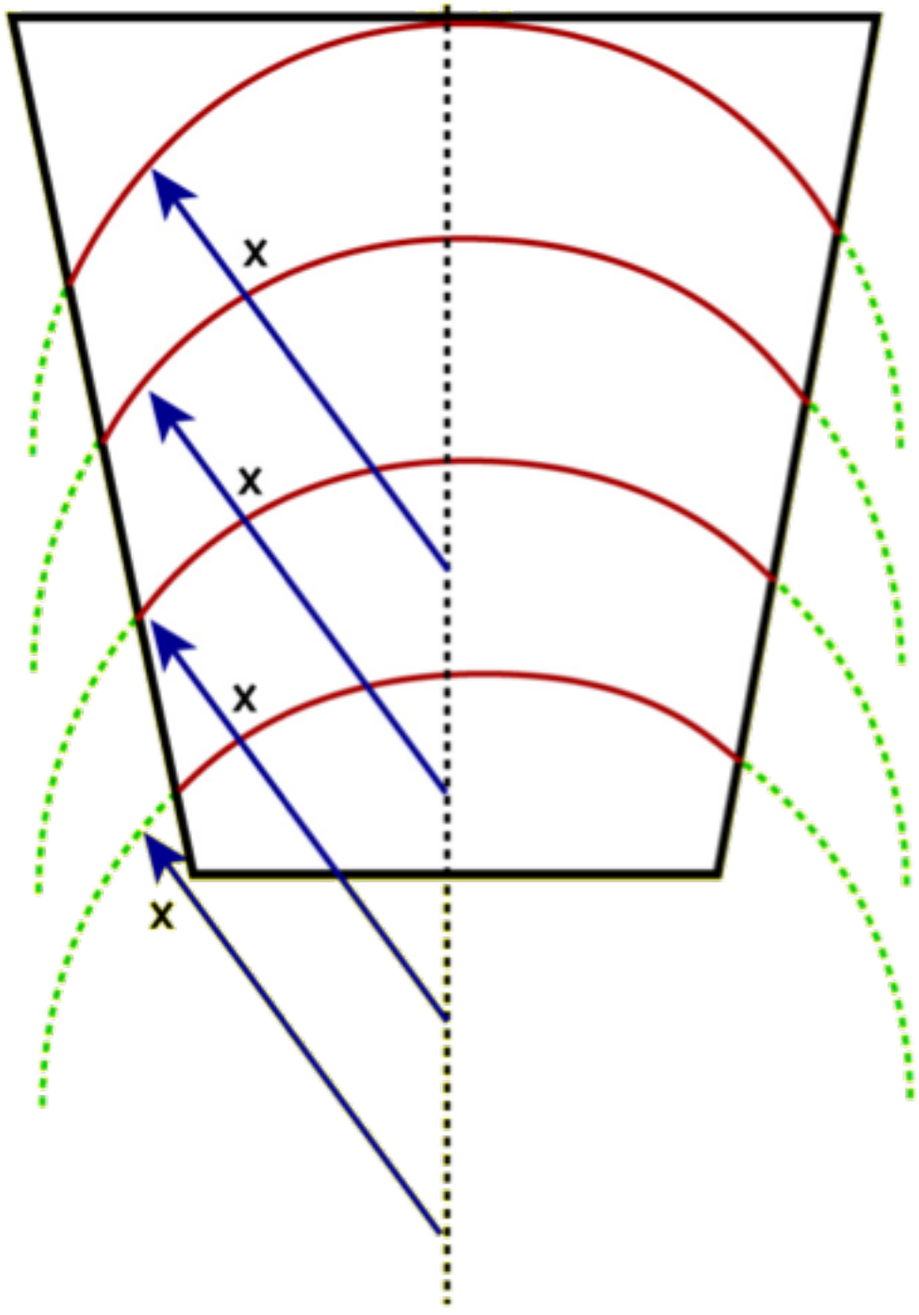
Intermediate Step Problems



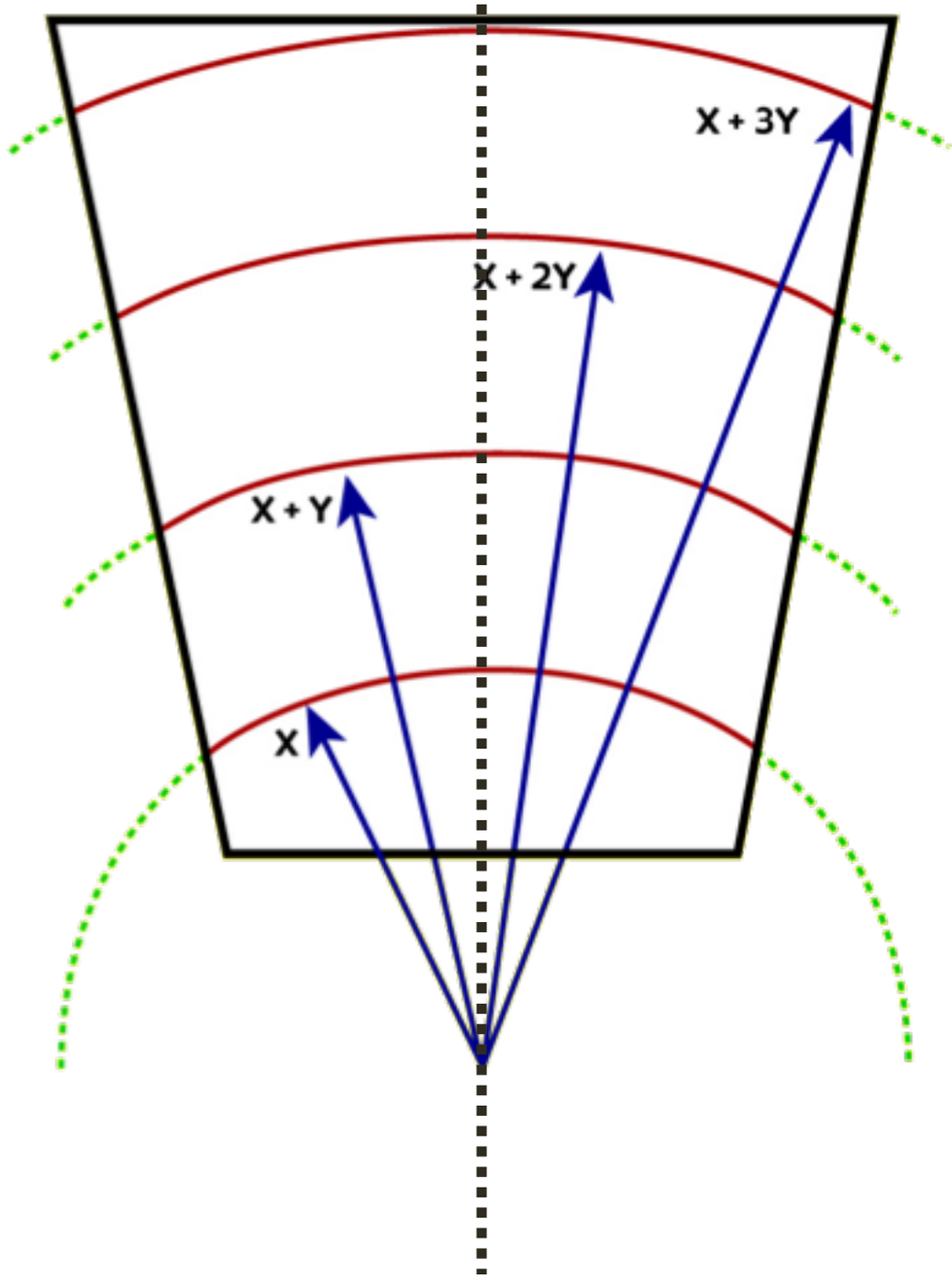
- A common mistake is to design intermediate steps parallel to a wall or some other architectural element.
- Chair stanchions must be installed perpendicular to the riser face.
- Hazardous gaps are created when the steps are not designed to match the angle of the chair standards.

Proper Design of a Radius

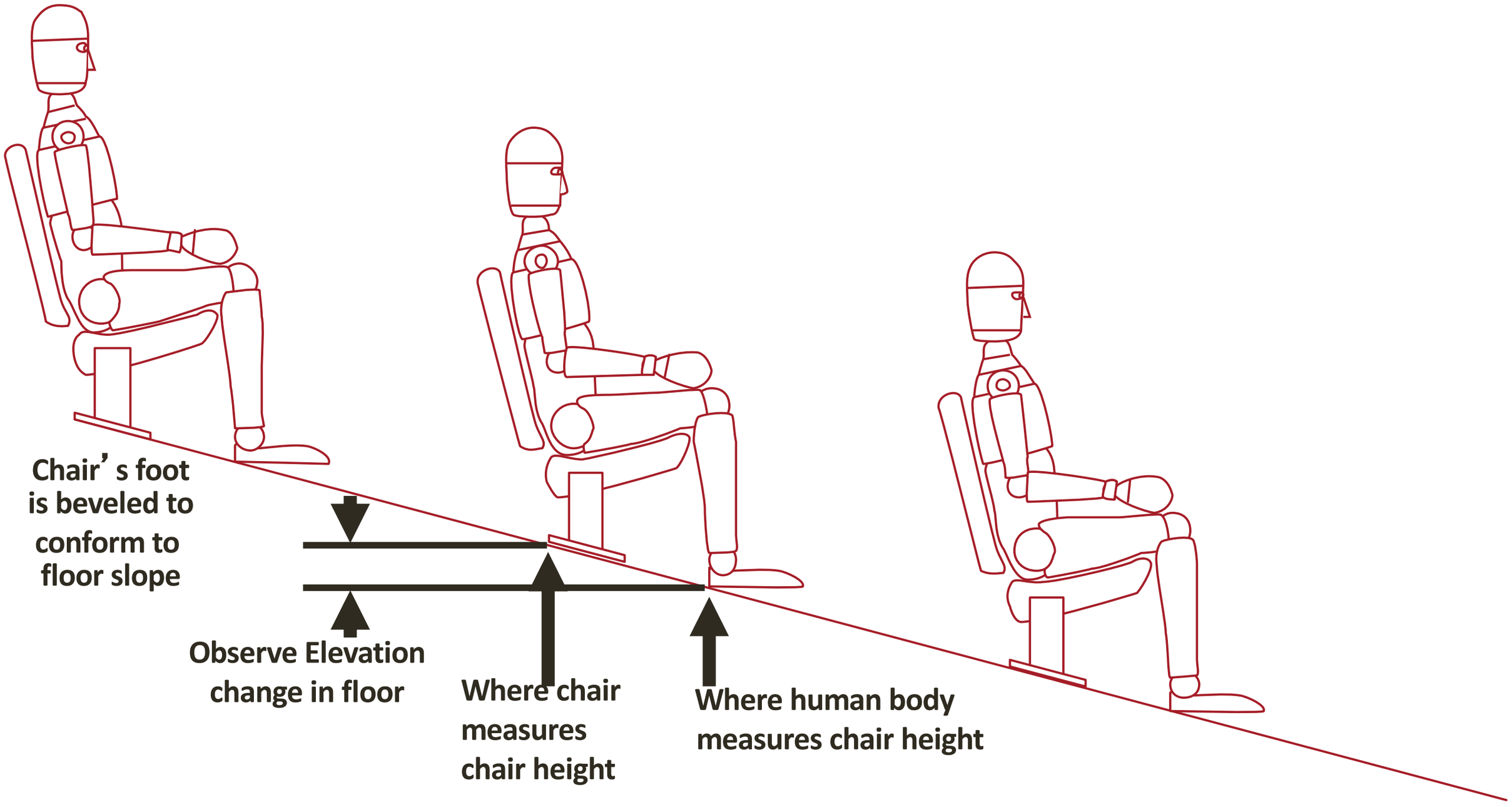
Incorrect



correct

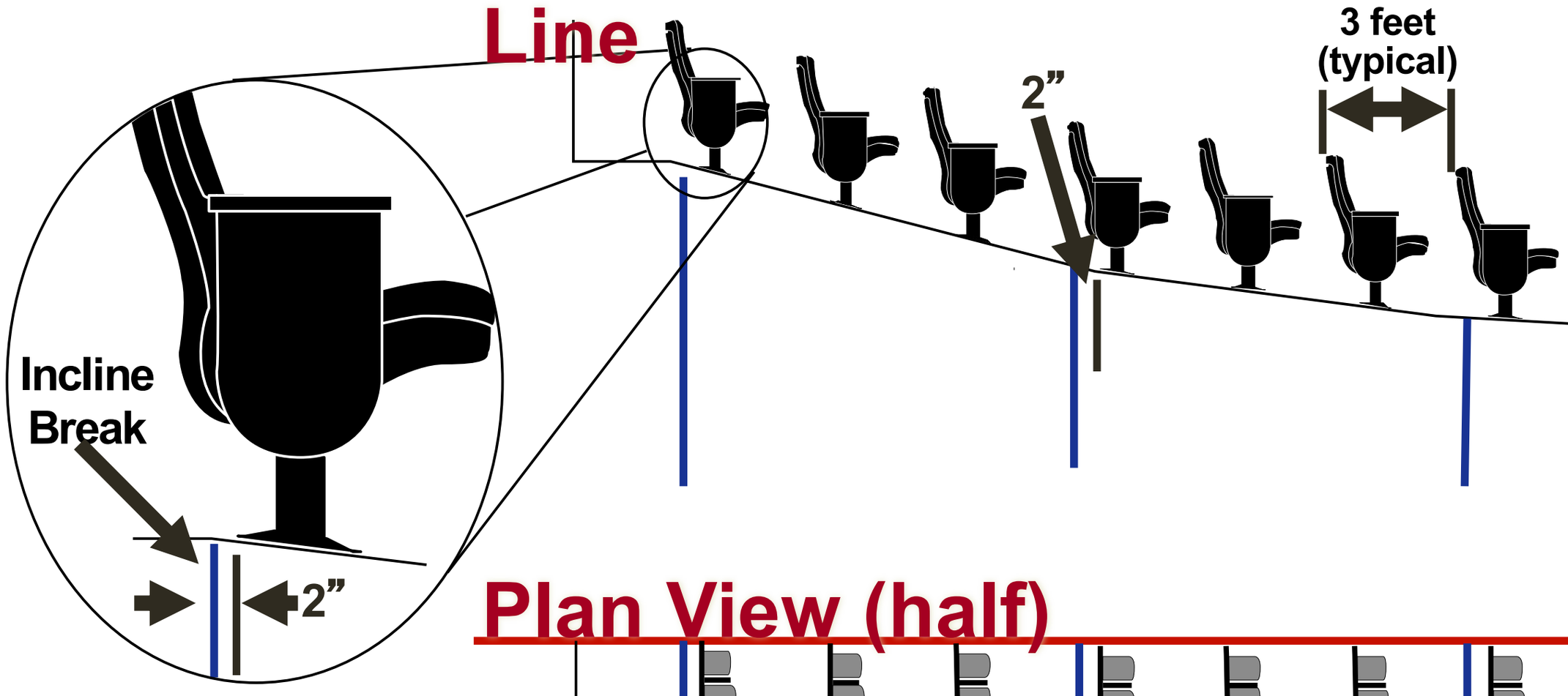


Floor Slope & Patron Comfort

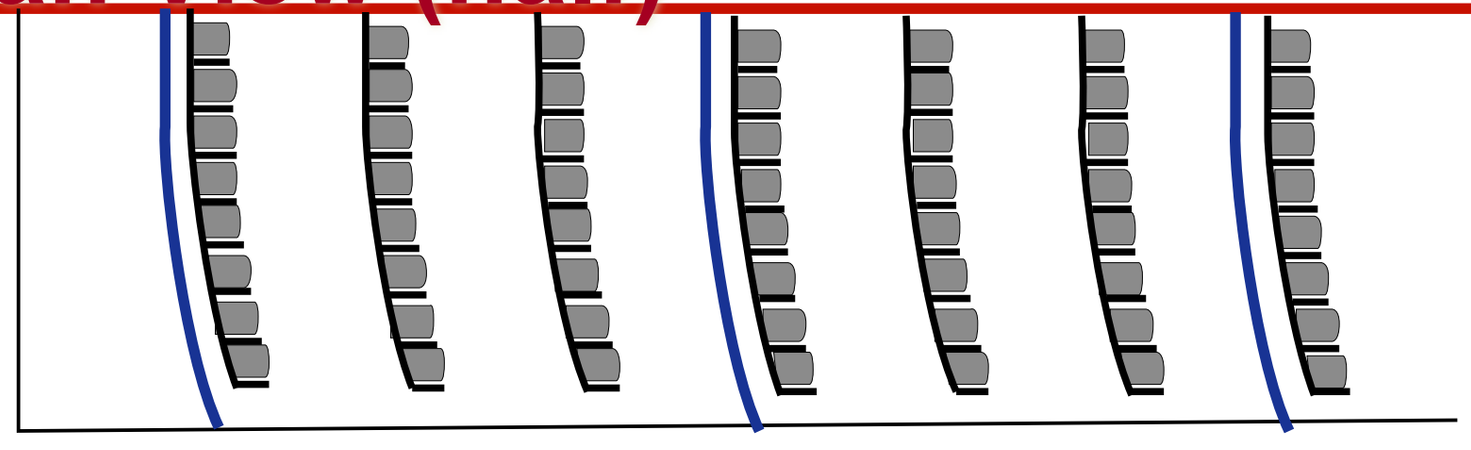


Incline Break Locations

Elevation View at Center Line



Plan View (half)



Rows follow radius of floor and chair rows do not cross incline breaks.