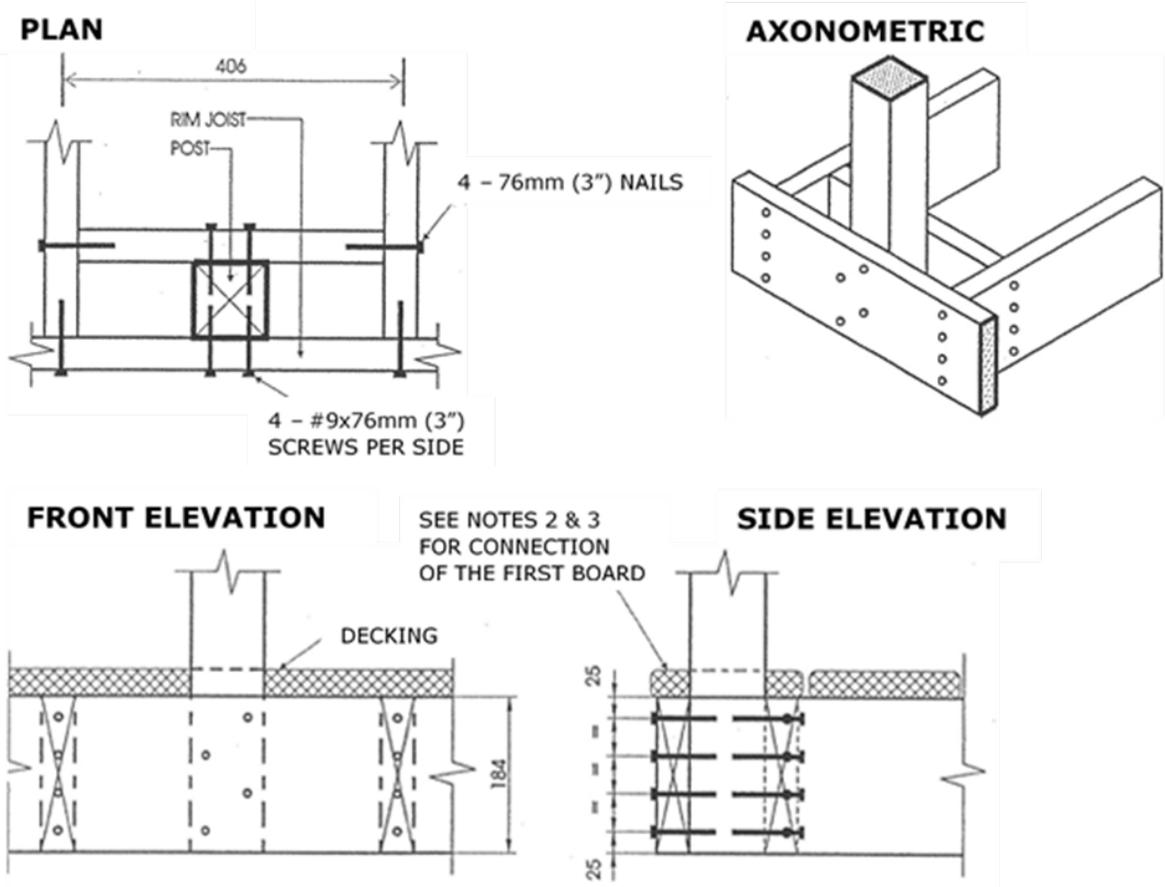


Deck – Guard System 2

Exterior guards for housing post connection details, required at 48 inches on centre.

Reference 2024 Ontario Building Code: SB-7. Consult City of Guelph Building Services for any variance to design for any of the options provided.

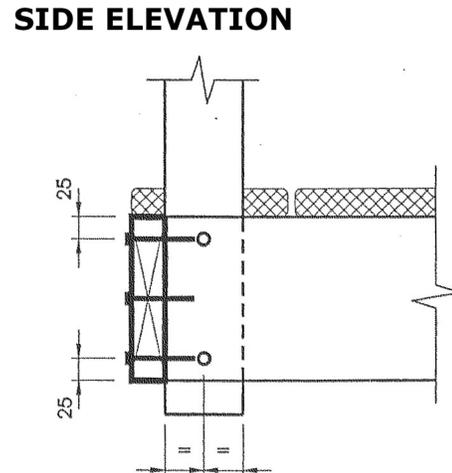
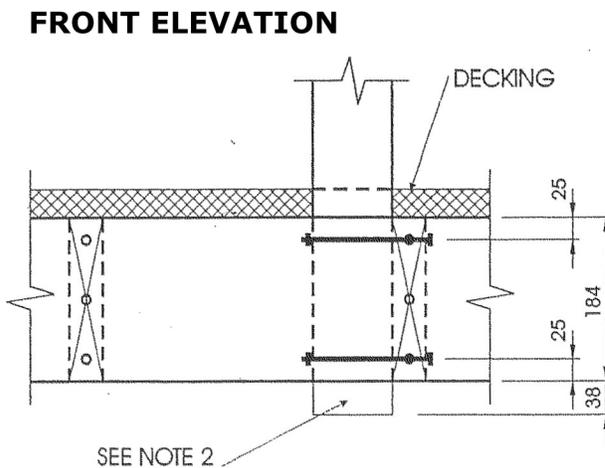
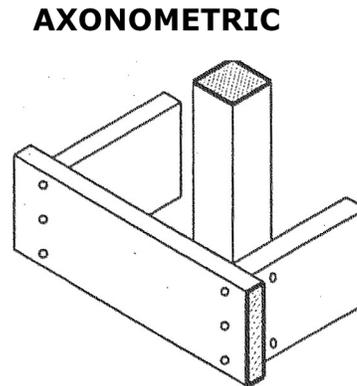
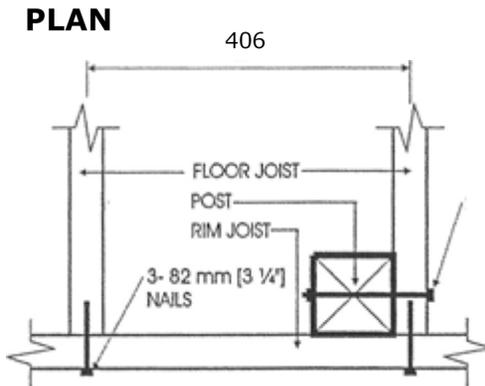
Option 1: post screwed to rim joist



Notes:

1. Decking is omitted from the plan view and the axonometric view for clarity.
2. Fasten 25 millimetre by 140 millimetre (5/4 inch by 6 inch nominal) outer deck board to rim joist with 63 millimetre (2-1/2 inch) nails at 300 millimetres (12 inches).
3. Fasten 25 millimetre by 140 millimetre (5/4 inch by 6 inch nominal) outer deck board to floor joist with one 63 millimetre (2 1/2 inch) nail at each joist.
4. The post may be positioned anywhere between the joists.
5. #9 screws may be replaced by #8 screws if the maximum spacing between posts is not more than 1.20 metres (3 feet-11 inches).

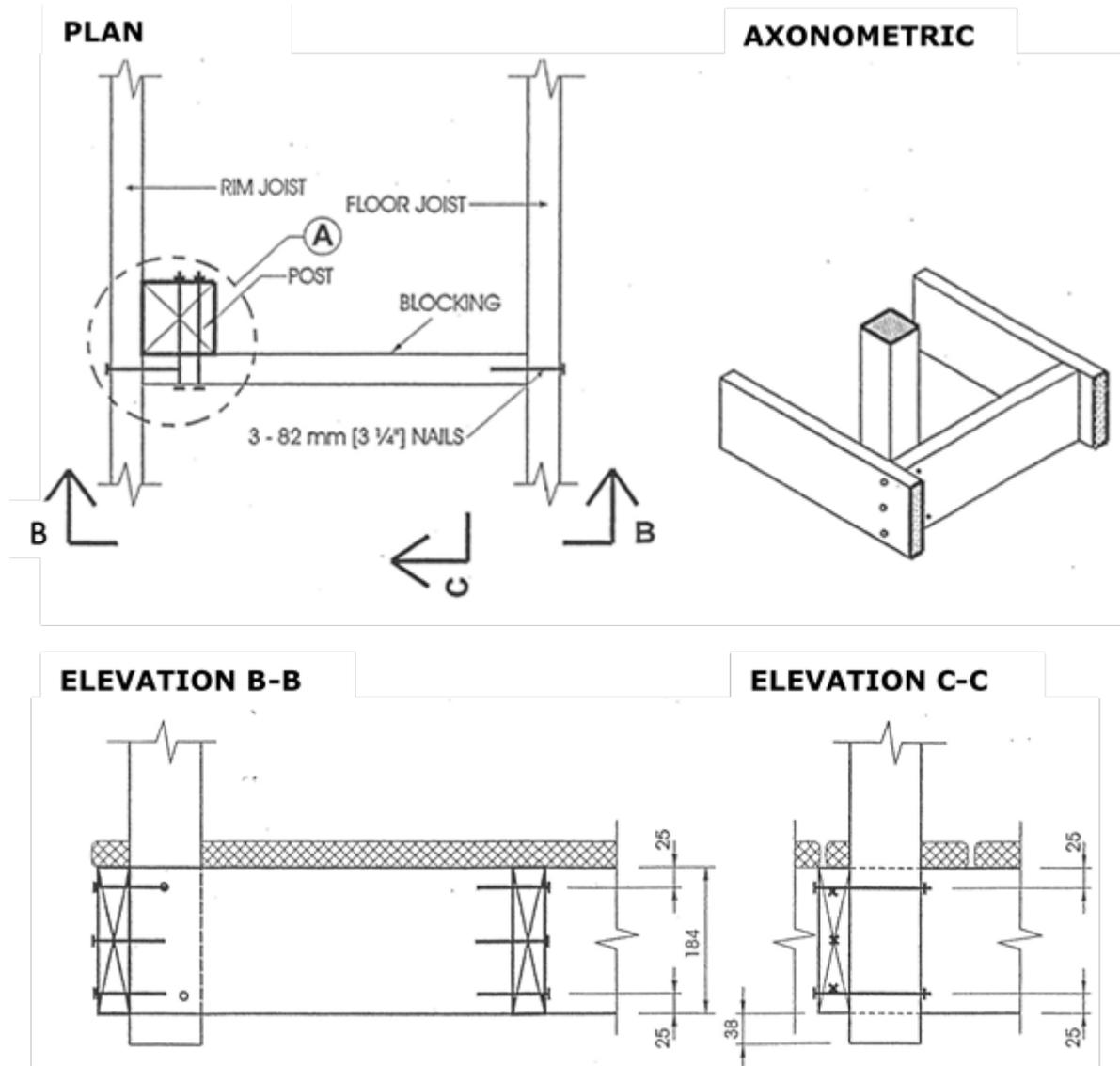
Option 2: Post bolted to floor joist (8 millimetre or 5/16 inch bolts)



Notes:

1. Decking is omitted from the plan view and the axonometric view for clarity.
2. 38 millimetre (1-1/2 inch) post projection is not required where the maximum spacing between posts does not exceed 1.20 metres (3 feet-11 inches).
3. Joists may be spaced at 610 millimetres (24 inches) on centre or 406 millimetres (16 inches) on centre.
4. Where floor joists are spaced at 610 millimetres (24 inches) on centre, decking must have a minimum thickness of 38 millimetres (1-1/2 inch) and must be fastened to the floor with two 76 millimetre (3 inch) nails.

Option 3: Post fastened to floor, guard parallel to floor joists



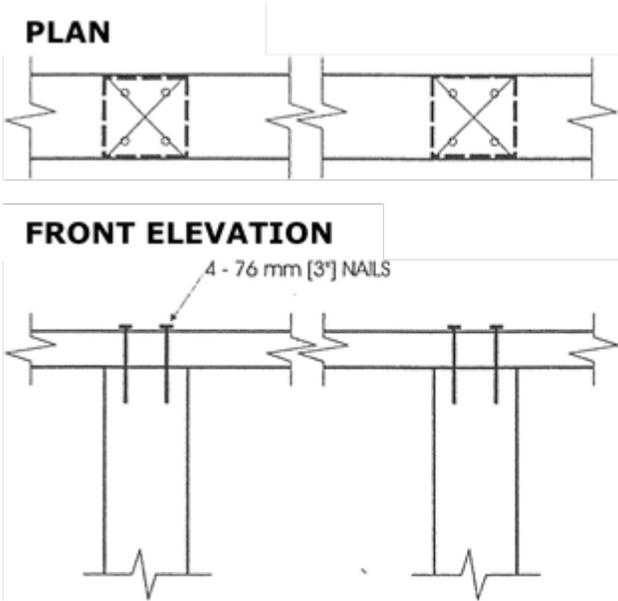
Notes:

1. Use any of the connection details shown on details EB-1 to EB-5 at location A. Connection detail EB-4 is shown in this detail as an example.
2. Maximum spacing between posts is determined from connection detail used at location A.
3. Decking is omitted from the plan view and the axonometric view for clarity.
4. Blocking must not be less than 38 millimetres by 184 millimetres (2 inches by 8 inches nominal).

Exterior Guards for housing top/bottom rail details.

Reference 2024 Ontario Building Code: SB-7.

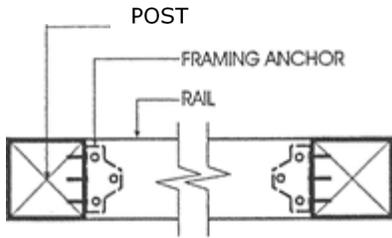
Option 1: Top rail only



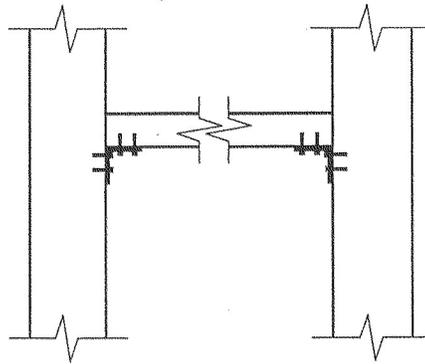
Guard Element	Minimum Size mm (in)
post	89 x 89 (4" x 4" nominal)
top rail	38 x 89 (2" x 4" nominal)
bottom rail	38 x 89 (2" x 4" nominal)
picket/baluster	32 x 32 (1 9/32" x 1 9/32")

Option 2:

PLAN



FRONT ELEVATION



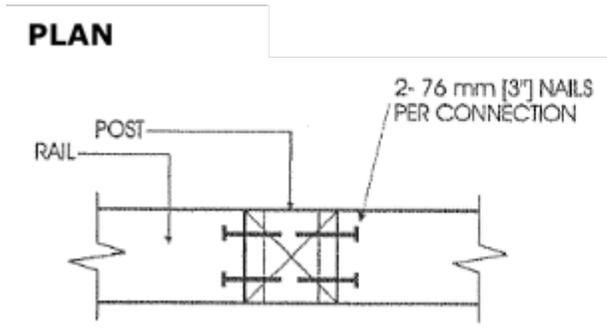
CORROSION RESISTANT FRAMING ANCHOR

MINIMUM 20 GAUGE FRAMING ANCHOR - NAILS AS RECOMMENDED BY MANUFACTURER (TYPICALLY 3.6 mm x 38 mm)

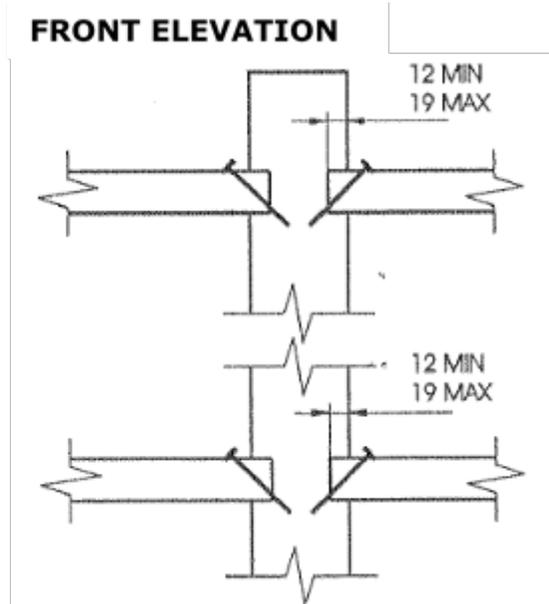


Option 3:

PLAN



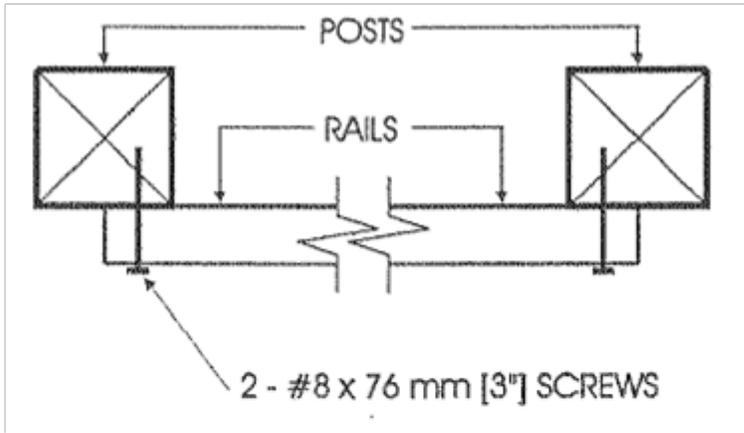
FRONT ELEVATION



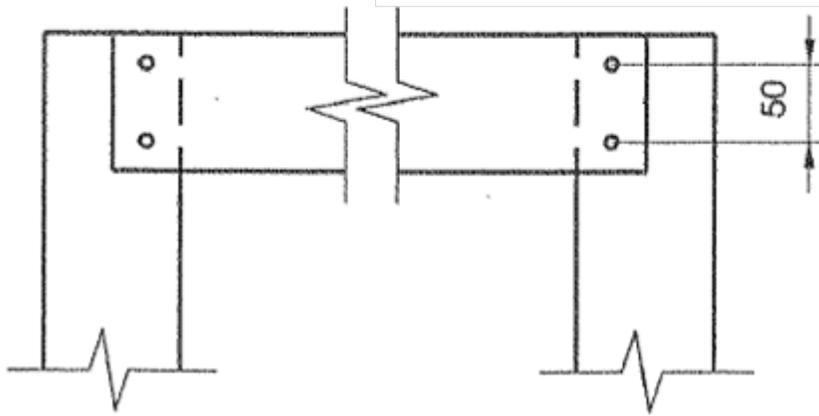
Option 4:

PLAN

DECK SIDE



FRONT ELEVATION

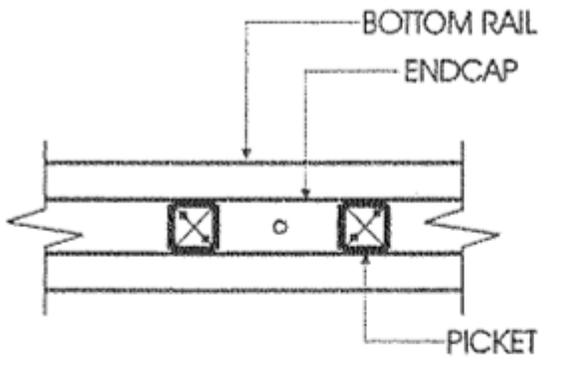


Exterior guards for housing infill picket with top & bottom rail.

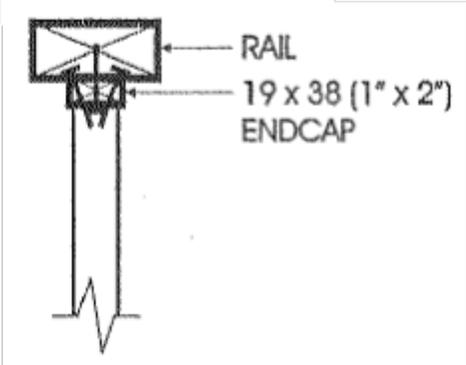
Reference 2024 Ontario Building Code: SB-7.

Option 1: Infill picket nailed to endcap, endcap screwed to rail

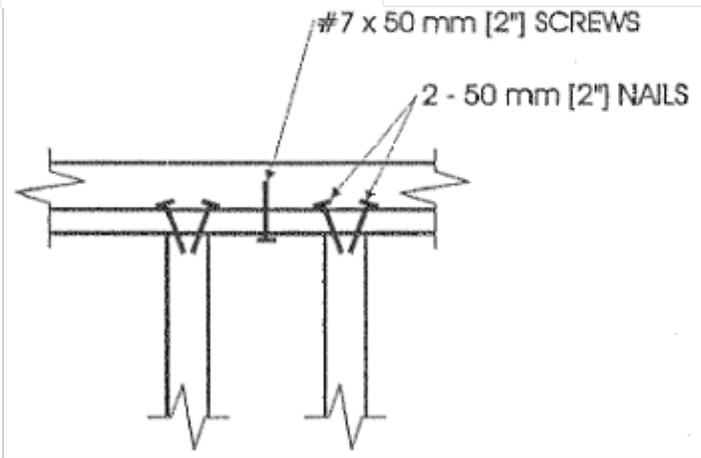
PLAN – BOTTOM RAIL



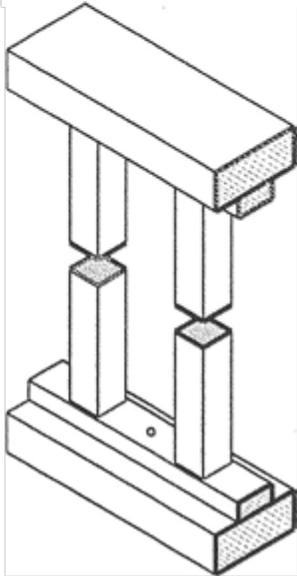
SIDE ELEVATION



FRONT ELEVATION



AXONOMETRIC

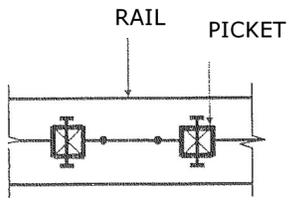


Notes:

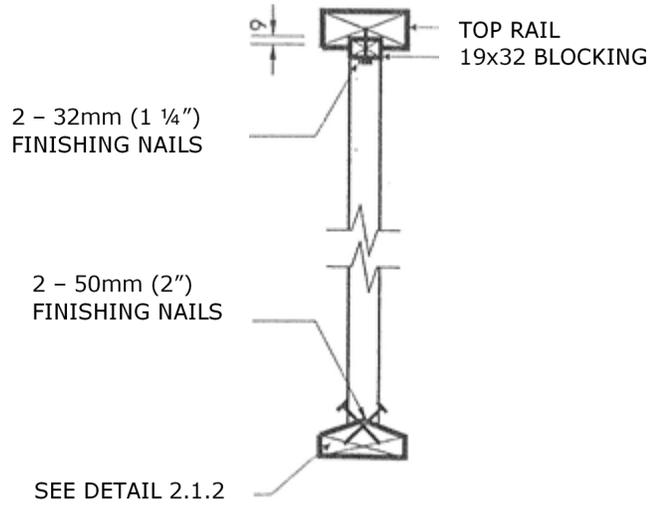
1. Fasten each end of each picket to endcaps with two 50 millimetre (2 inch) nails.
2. Fasten endcaps to rails with #7 by 50 millimetre (2 inch) screws at 300 millimetres (12 inches) on centre.

Option 2: Infill picket nailed to rail

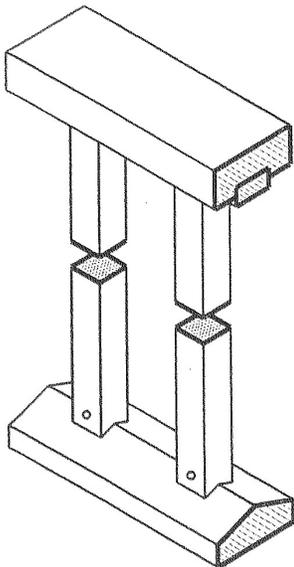
PLAN - BOTTOM RAIL



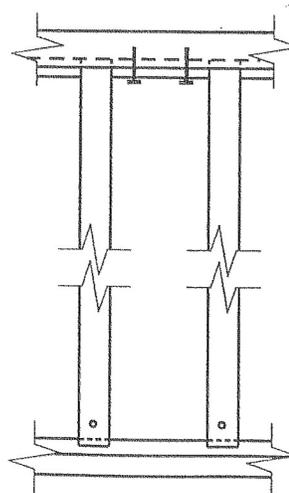
SIDE ELEVATION



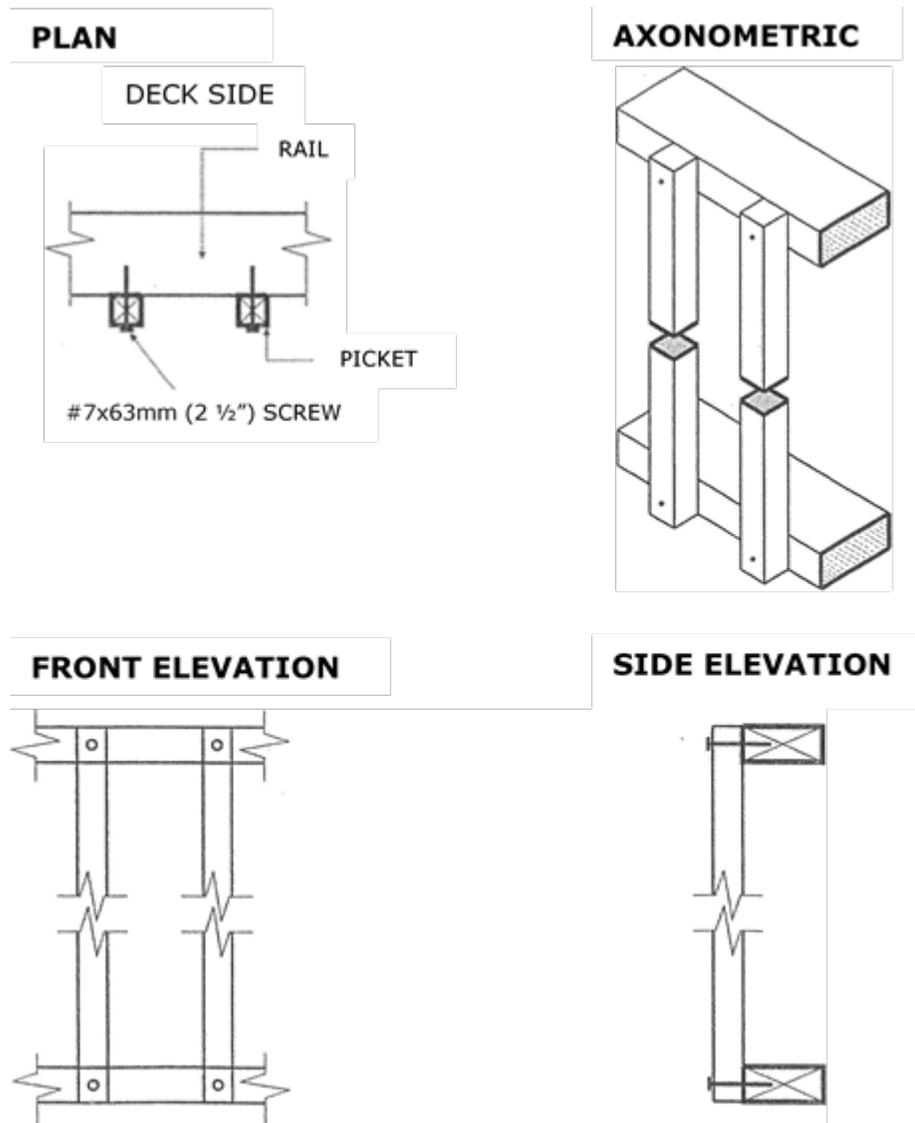
AXONOMETRIC



FRONT ELEVATION



Option 3: Infill picket screwed to rail



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