



# THE CORPORATION OF THE TOWN OF SPANISH

## Deck Package

### General Notes

- Site plan or survey is required showing all lot lines and dimensions, size and location of all building, hydro services and the proposed locations and size of the deck.
- All lumber used must be pressure treated, stamped and graded No.2 or better.
- Cut ends in pressure treated lumber shall be treated with pressure treat paint.
- 5/8" decking material must be supported at minimum every 16".
- Stairs stringers shall be spaced at a maximum of 35"

### Footings & Piers

- Decks greater than 23" above grade (measured from underside of joist) or attached to a structure must use circular piers.
- Circular piers to be a minimum 10" diameter and extend a minimum 4'-6" below finished grade, extend above grade no more than 3x diameter of the pier and extend no less than 6" above grade.
- 2- 15M bent rebar is required.
- Piers shall be anchored to footing pad or on a minimum 24" "Big Foot" to provide proper bearing and to resist uplift.
- Minimum concrete strength of piers to be 20MPa
- It is *recommended* to wrap piers with a double layer of plastic poly to prevent frost uplift/damage.

### Deck blocks can be used under the following conditions:

- 55M<sup>2</sup> maximum area
- 600mm above grade, measured from underside of floor joists
- No roof is attached
- Not attached to another structure

### Guards

- Decks with a walking surface less than 23 <sup>5/8</sup>" above grade do not require a guard as long as the adjacent ground level is consistent for 4' around edge of deck. If not, a 36" guard is required.
- For decks with a walking surface between 23 <sup>5/8</sup>" and 5'-11", a minimum of 36" high guard is required.
- Decks with walking surface 5'-11" or greater above grade require a 42" guard.
- Guards shall be non-climbable and vertical spindles shall be spaced no more than 4" apart.
- Deck stairs with 3 or more risers require a handrail.
- Guard posts shall be 4"x 4" solid.



Beams & floor Joists

- Support posts for beams must be minimum 6"x6" and all beams must be 3 ply
- Beams to post and post to base connections shall be securely fastened to resist uplift and lateral movement.
- Beams and floor joists shall be sized from the span tables below.
- Minimum permitted joists size is 2"x8" where SB-7 guards are used.

BEAM TABLE

Depth of Beam	Max Span
3- 2"x 8"	9'-6"
3- 2"x 10"	11'-6"
3- 2"x 12"	13'-5"

FLOOR JOIST SPAN TABLE

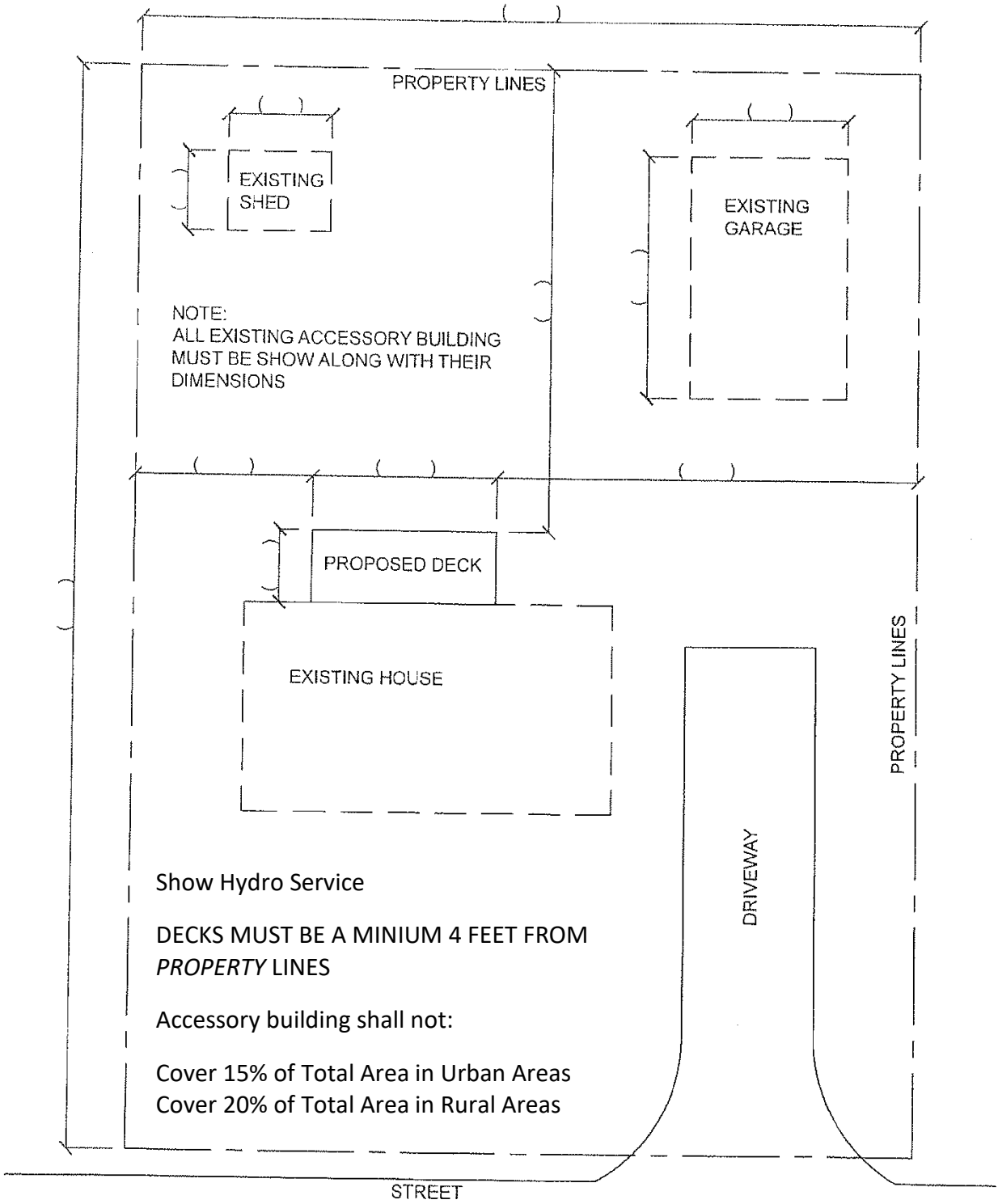
Joist Size	Spacing	Max Span
2"x 8"	12" o/c	11'-7"
	16" o/c	11'-0"
	24" o/c	10'-5"
2"x 10"	12" o/c	13'-8"
	16" o/c	13'-0"
	24" o/c	12'-4"
2"x 12"	12" o/c	15'-7"
	16" o/c	14'-9"
	24" o/c	14'-1"

Table for Attaching Deck to Existing Structure Using Leg Bolts

Column 1	Column 2	Column 3
Maximum Clear Floor Span,	Maximum Anchor Bolt Spacing,	
	Staggered 1/2" Diameter Anchor Bolts	Staggered 5/8" Diameter Anchor Bolts
8'- 0"	17 3/4"	19 5/8"
9'- 10"	15 3/4"	17 3/4"
13'- 1"	11 3/4"	15 3/4"
16'- 5"	10 7/8"	12 3/4"



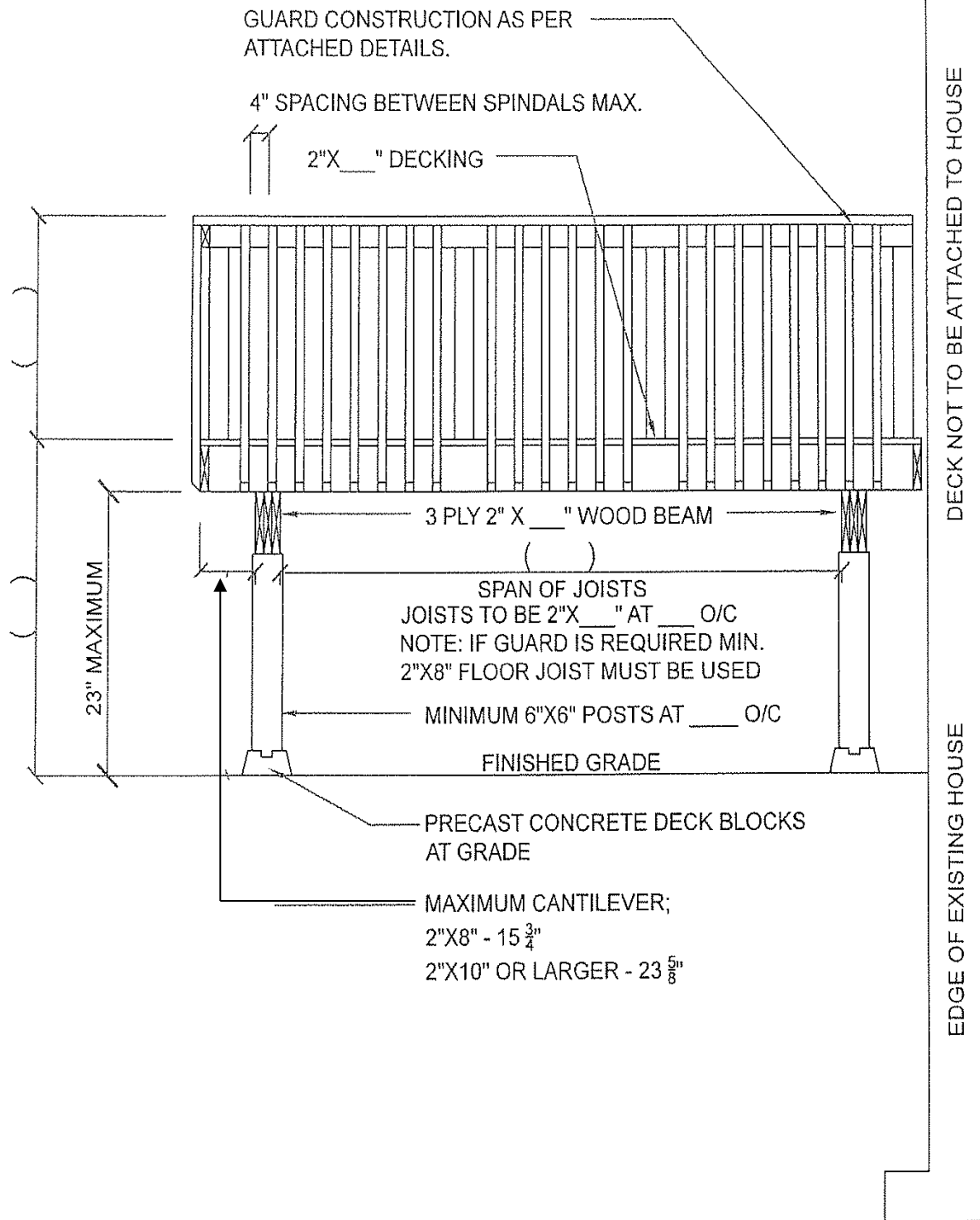
# SITE PLAN



"SAMPLE" SITE PLAN



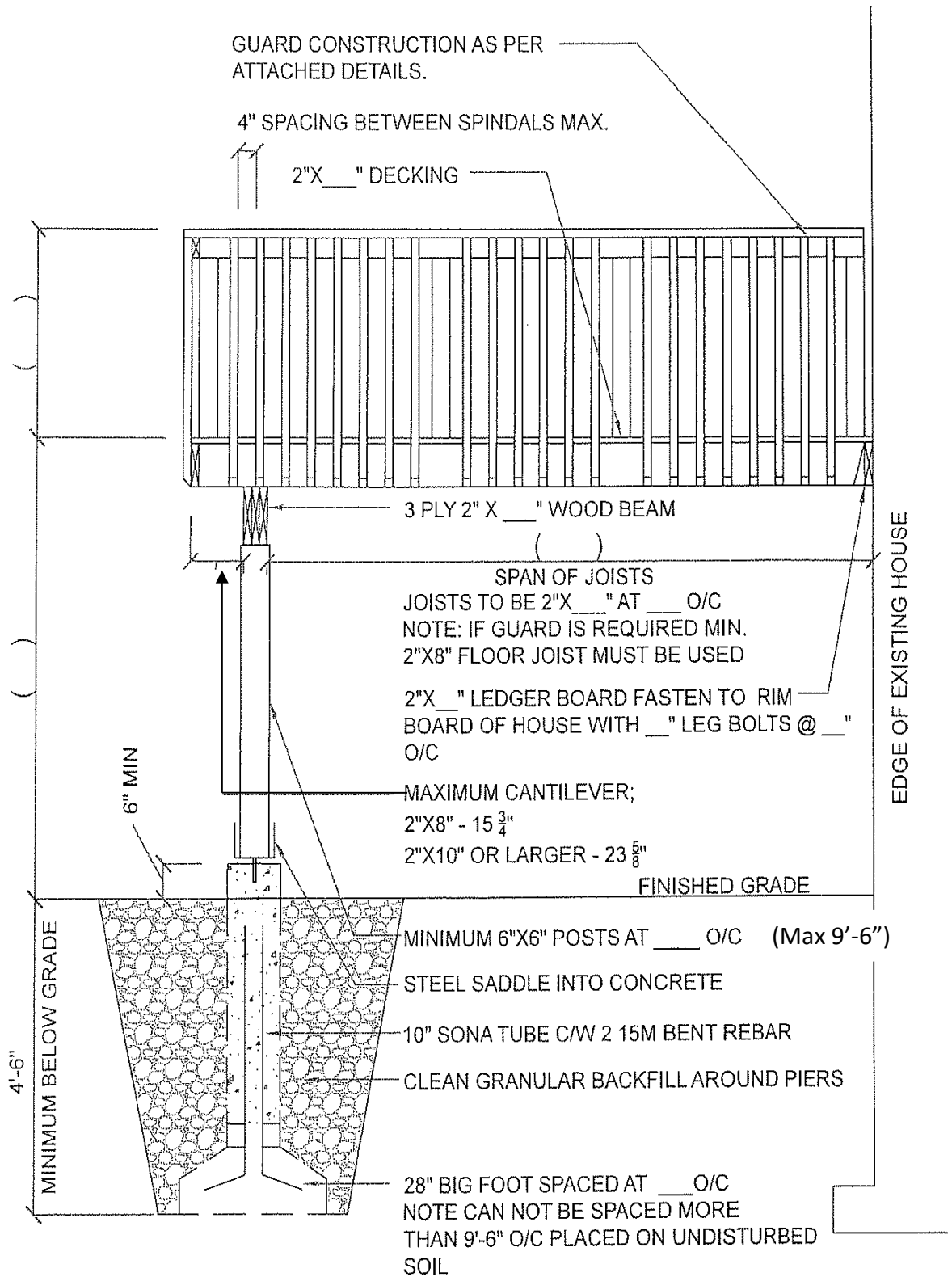
## DECK NOT CONNECTED TO HOUSE



## DETACHED DECK

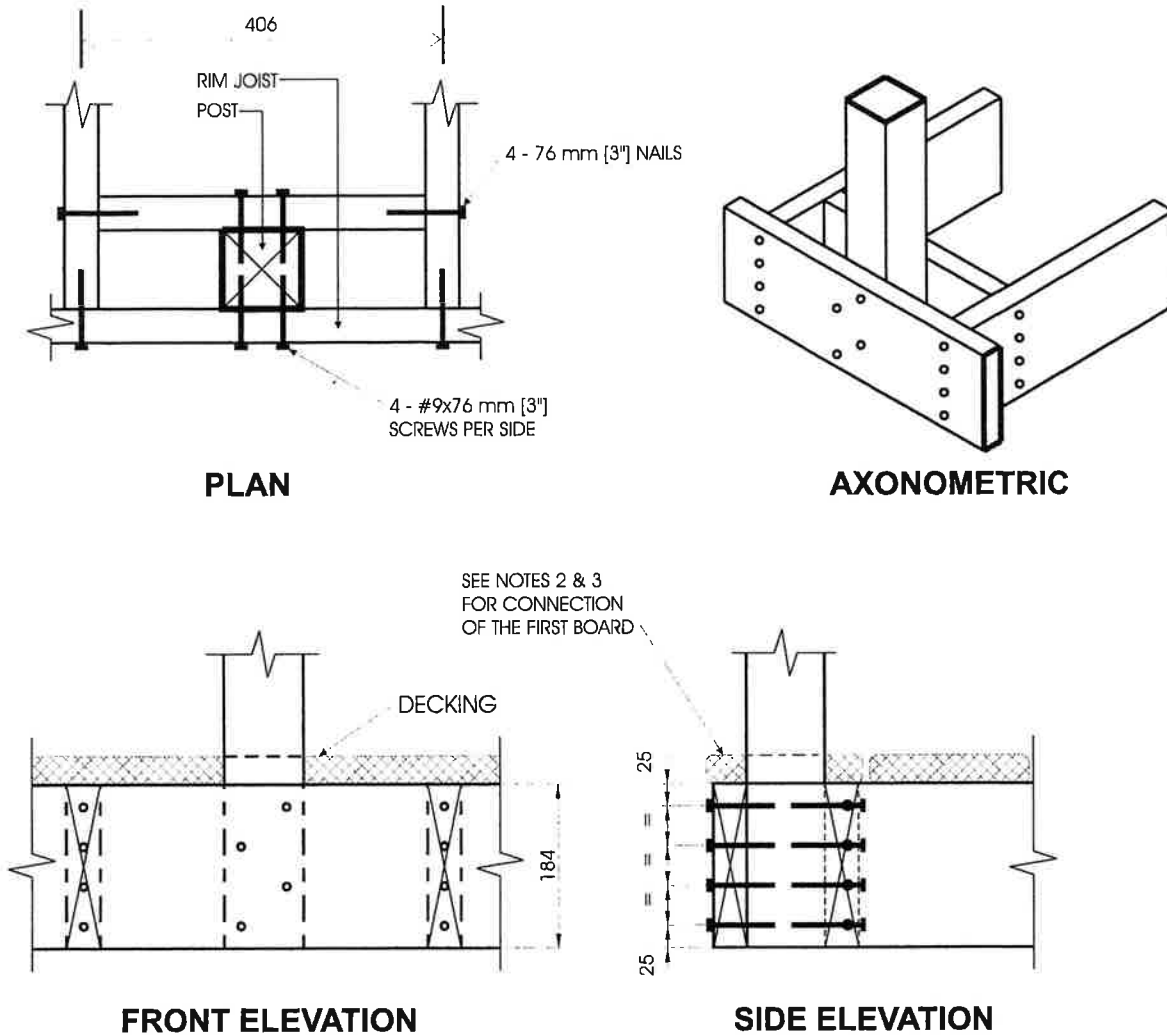


# DECK ATTACHED TO HOUSE



## ATTACHED DECK





PLAN

AXONOMETRIC

FRONT ELEVATION

SIDE ELEVATION

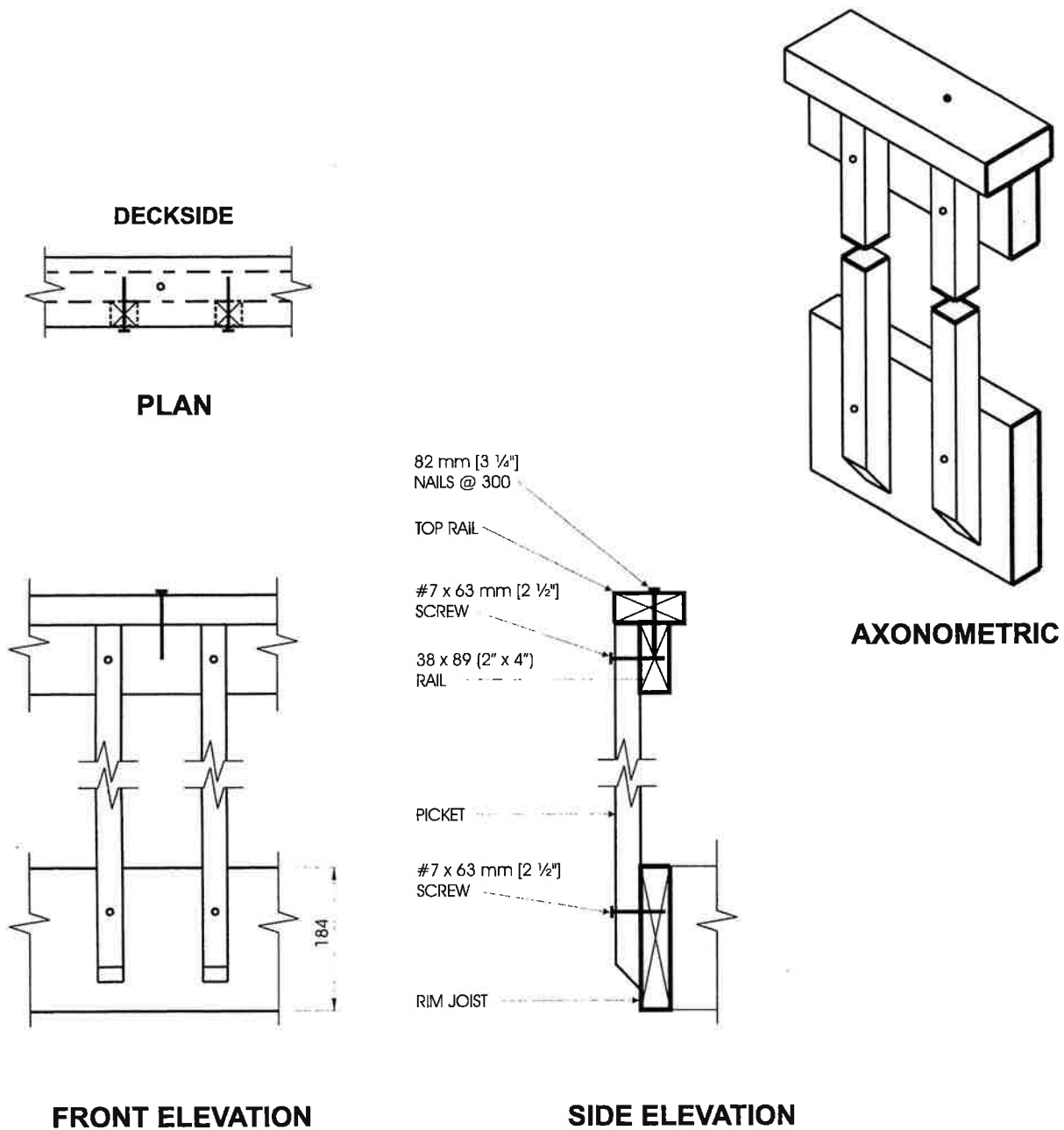
**Detail EB-2**

**Exterior Connection: Post Screwed to Rim Joist**

**Notes:**

1. Decking is omitted from the plan view and the axonometric view for clarity.
2. Fasten 25 mm x 140 mm (5/4" x 6" nominal) outer deck board to rim joist with 63 mm (2 1/2") nails at 300 mm (12").
3. Fasten 25 mm x 140 mm (5/4" x 6" nominal) outer deck board to floor joist with 1 - 63 mm (2 1/2") 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 m (3'-11").
6. Dimensions shown are in mm unless otherwise specified.

MAXIMUM SPAN OF RAIL BETWEEN POSTS	
Species	Maximum Span, m (ft-in)
Douglas Fir-Larch, Hem-Fir, Spruce-Pine-Fir	1.56 (5'-1")
Northern Species	1.20 (3'-11")
Column 1	2



**Detail EC-4**

**Exterior Connection: Infill Picket Screwed to Top Rail and Rim Joist**

**Note:**

1. Dimensions shown are in mm unless otherwise specified.