



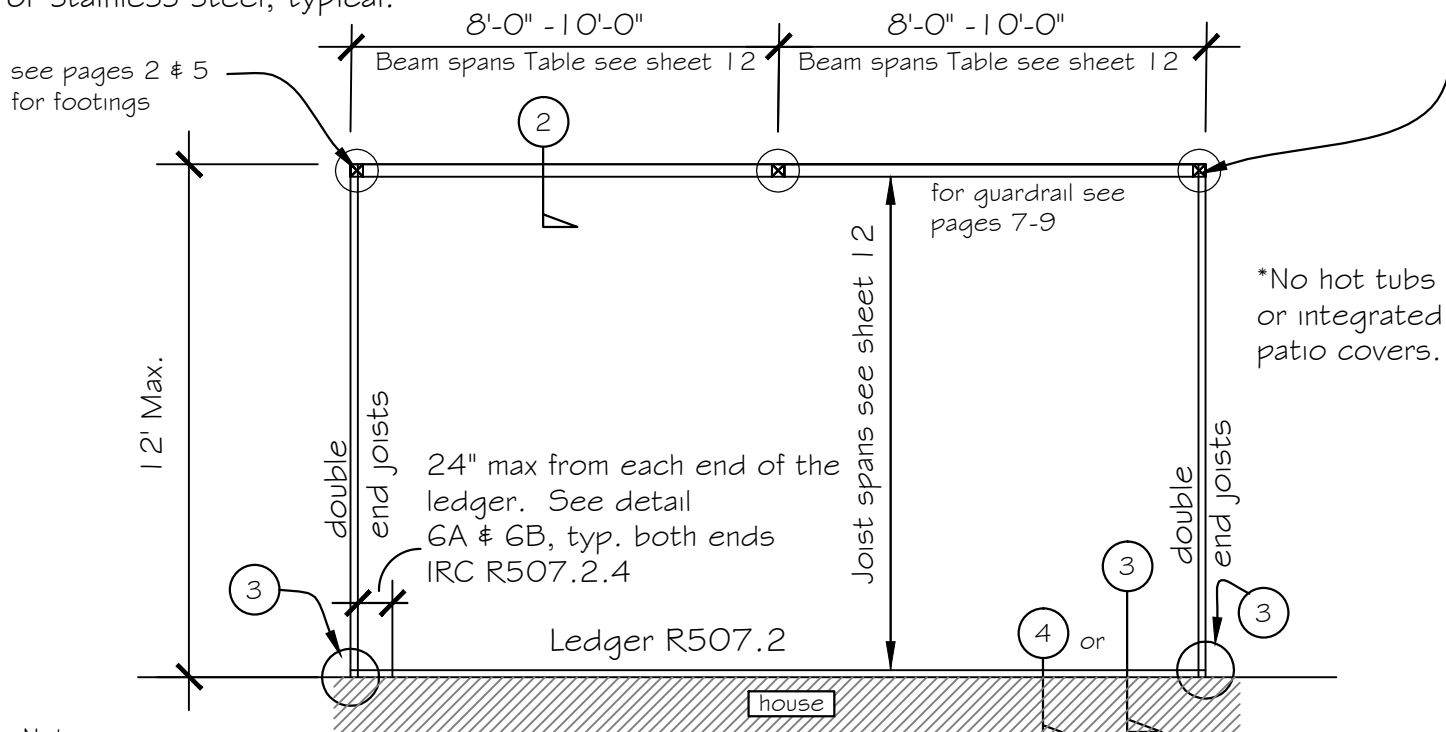
Southwest Washington Chapter of ICC

This construction detail is illustrative of the minimum standard
of construction based upon the 2015 IRC / WAC 51-51

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NOTE: All exposed lumber
to be pressure treated
(P.T.) or decay resistant.
Fasteners for P.T. wood
shall be hot-dipped galv.
or stainless steel, typical.

Table R507.8 Deck Post Height Hem Fir #2 P.T.	
Deck Post Size	Maximum height
4 x 4 or 4 x 6	8'-0"
6 x 6	14'-0"



Notes:

1. R507.4 Wood decking shall be attached to each supporting member with not less than (2) 8d threaded nails or (2) No.8 wood screws.
2. R507.5 Deck joists shall not be permitted to cantilever not greater than $\frac{1}{4}$ of the actual, adjacent joist span.
3. R507.5.1 Joist ends and bearing locations shall be provided with lateral restraint to prevent rotation. Where lateral restraint is provided by joist hangers or blocking between joists, their depth shall equal not less than 60% of the joist depth. Where lateral restraint is provided by rim joists, they shall be secured to the end of each joist with not less than (3) 10d nails or (3) No. 10 x 3" long wood screws.
4. R507.6 Beam plies shall be fastened with two rows of 10d nails minimum at 16" o.c. along each edge. Beams shall be permitted to cantilever at each end up to $\frac{1}{4}$ of the actual beam span. Splices of multispan beams shall be located at interior post locations.
5. R507.7 The ends of each joist and beam shall have not less than $1\frac{1}{2}$ " of bearing on wood or metal and not less 3" on concrete or masonry for the entire width of the beam. Joist framing into the side of a ledger board or beam shall be supported by approved joist hangers. Joists bearing on a beam shall be connected to the beam to resist lateral displacement.
6. R507.7.1 Deck post to Deck beams shall be capable of resisting lateral displacement. All bolts shall have washers under the head and nut.
7. R507.8.1 Post shall bear on footings and be restrained to prevent lateral displacement at the bottom support with a manufactured connector or post embedment of 12" in concrete piers.

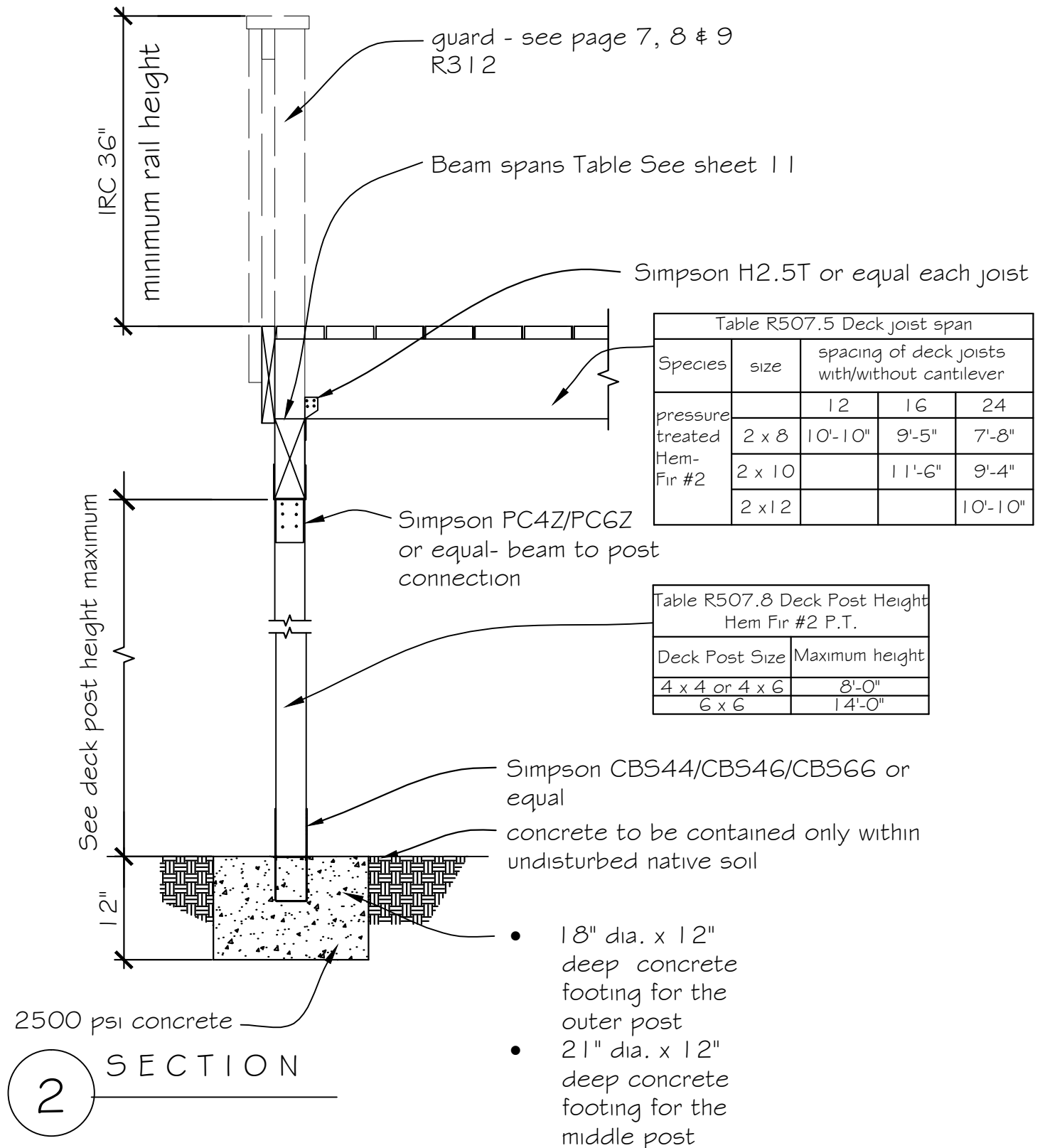
DECK FLOOR PLAN - Elevated Deck

Table R507.5 Deck Joist spans

Table R507.6 Deck Beam spans for beams supporting deck joists from one side only.

Table WAC R301.5 Balconies (exterior) and decks live load 60 psf (see section R507.1 for decks attached to exterior walls. Dead load 10 psf.

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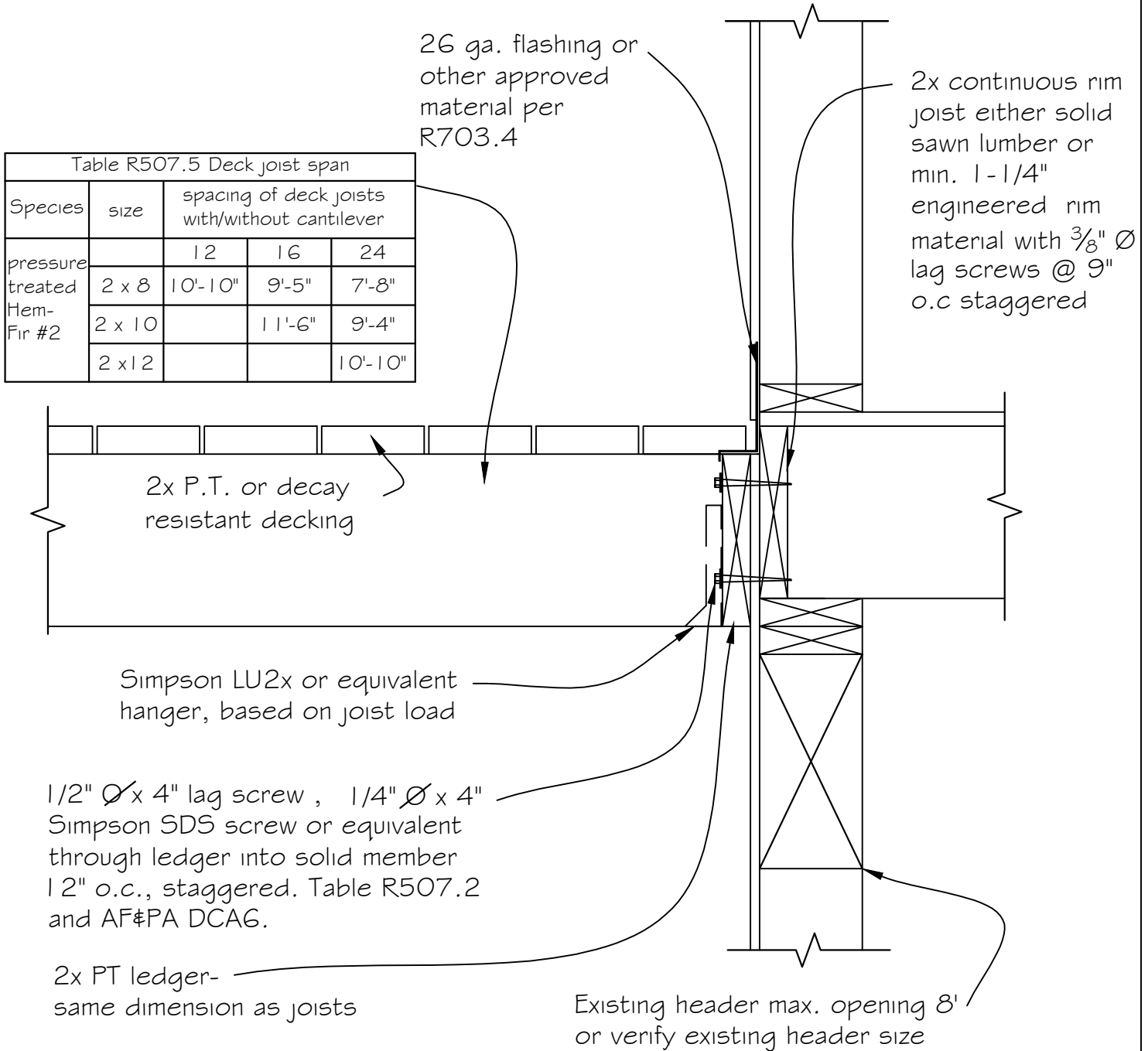


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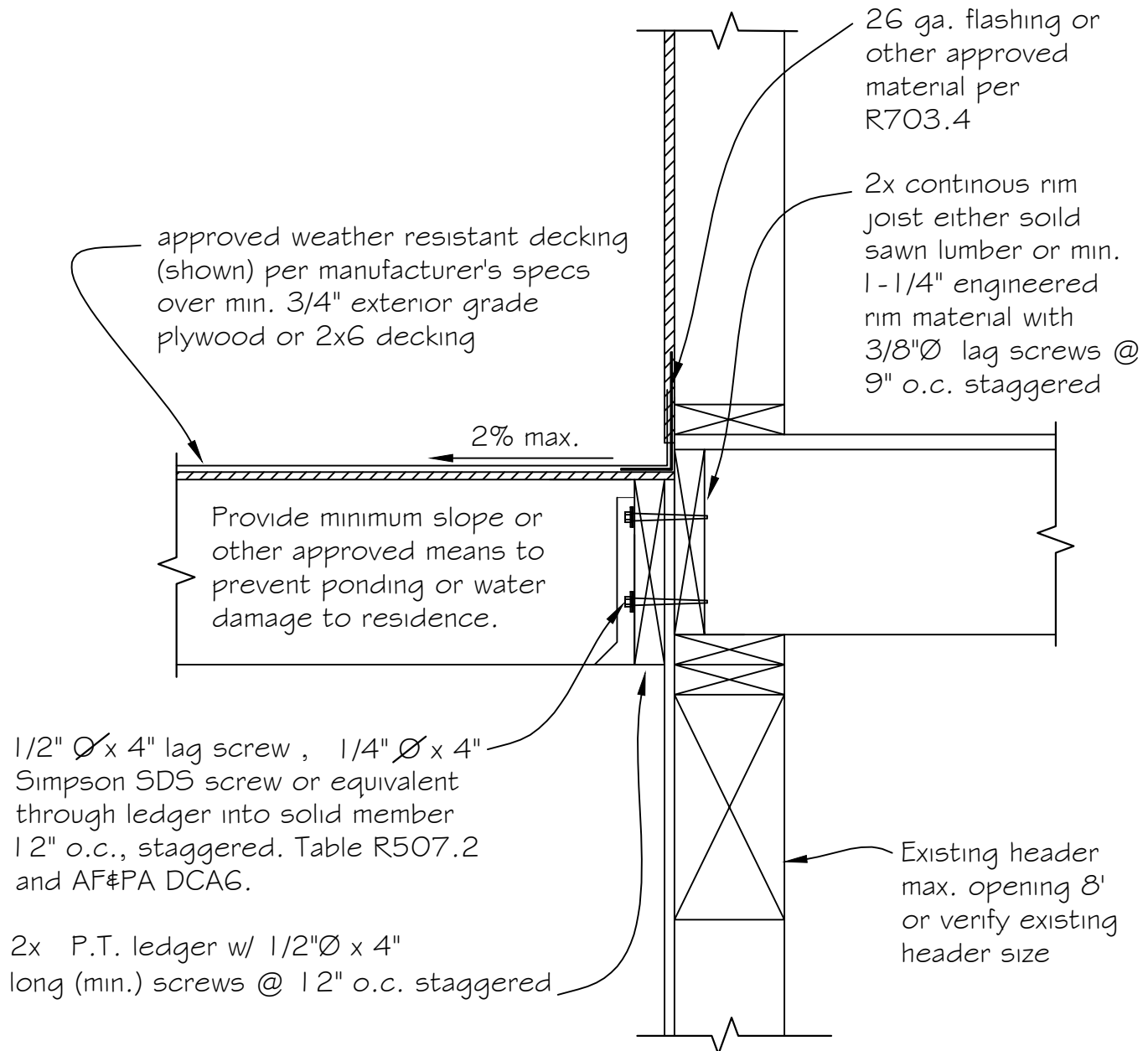
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3

TYPICAL LEDGER CONNECTION

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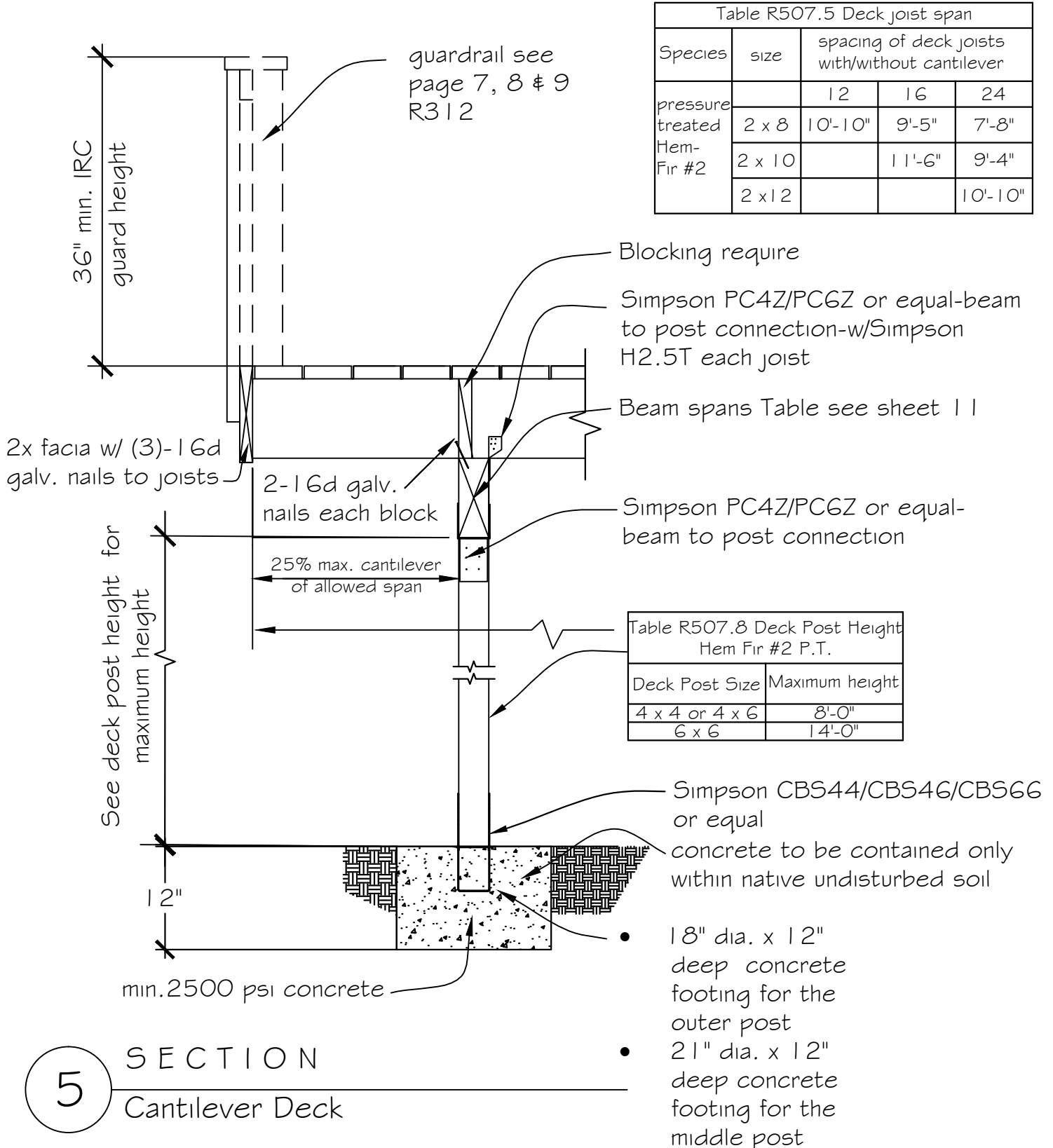
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TYPICAL LEDGER CONNECTION

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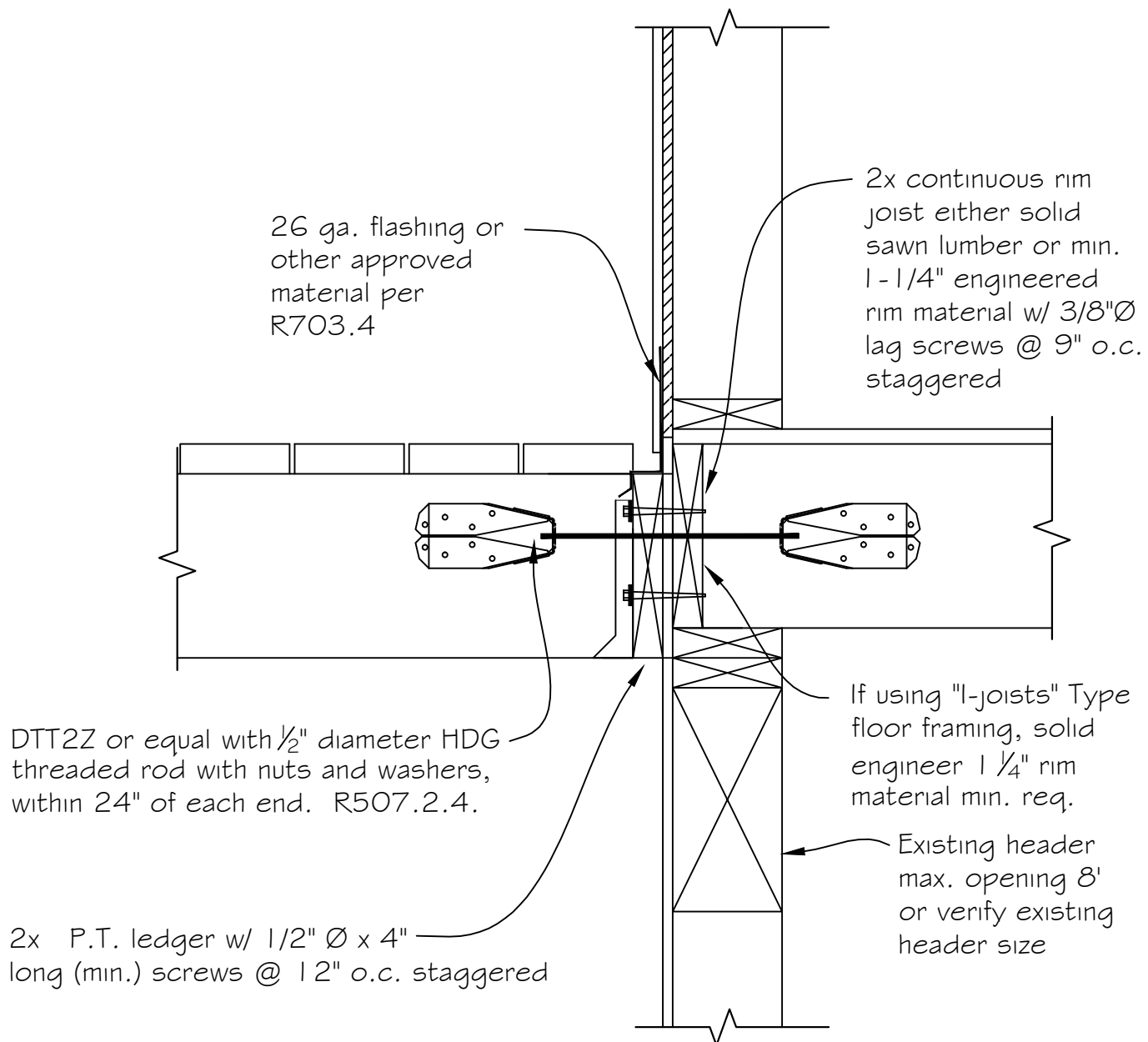


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6A

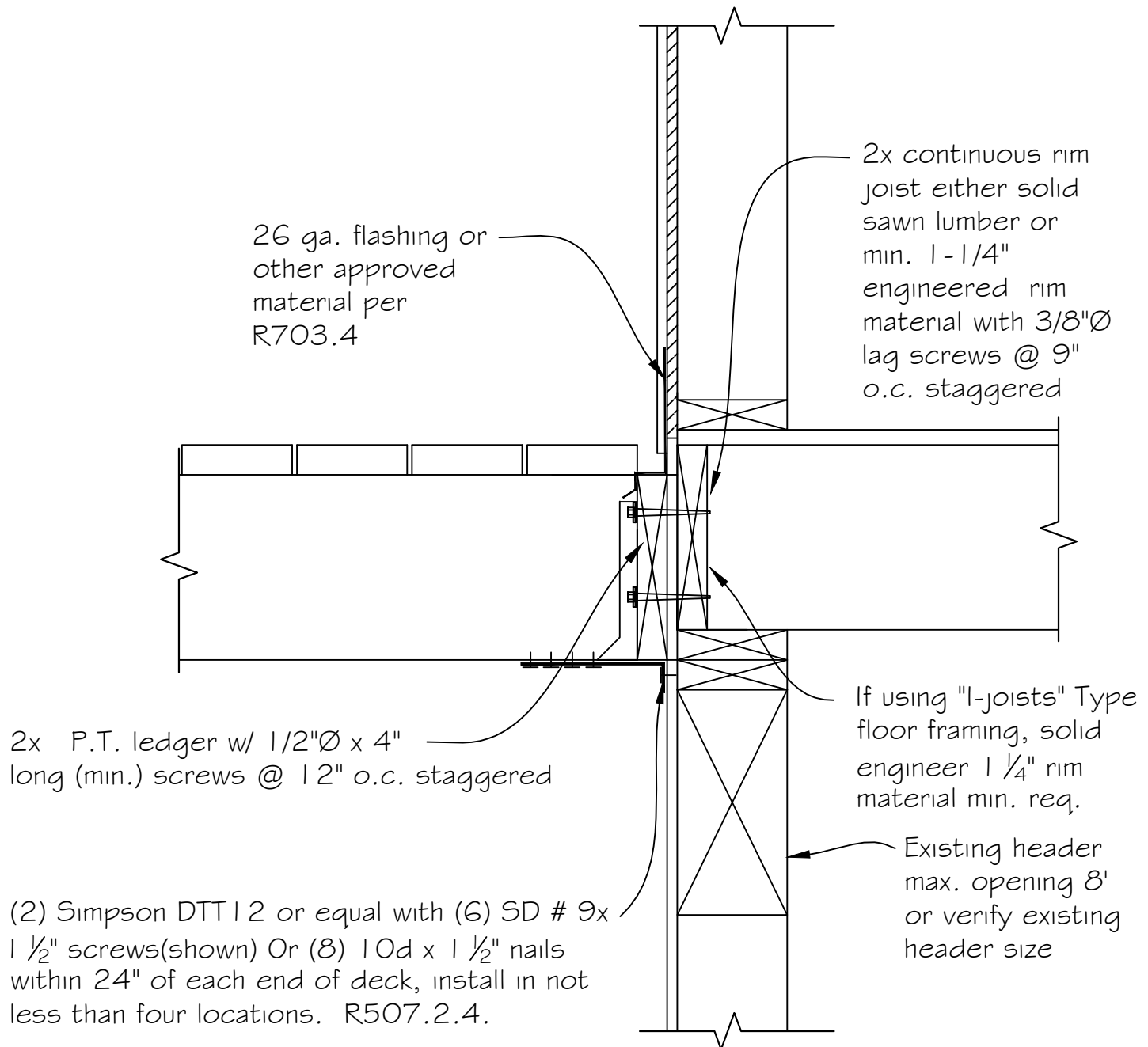
DECK ATTACHMENT FOR LATERAL LOADS

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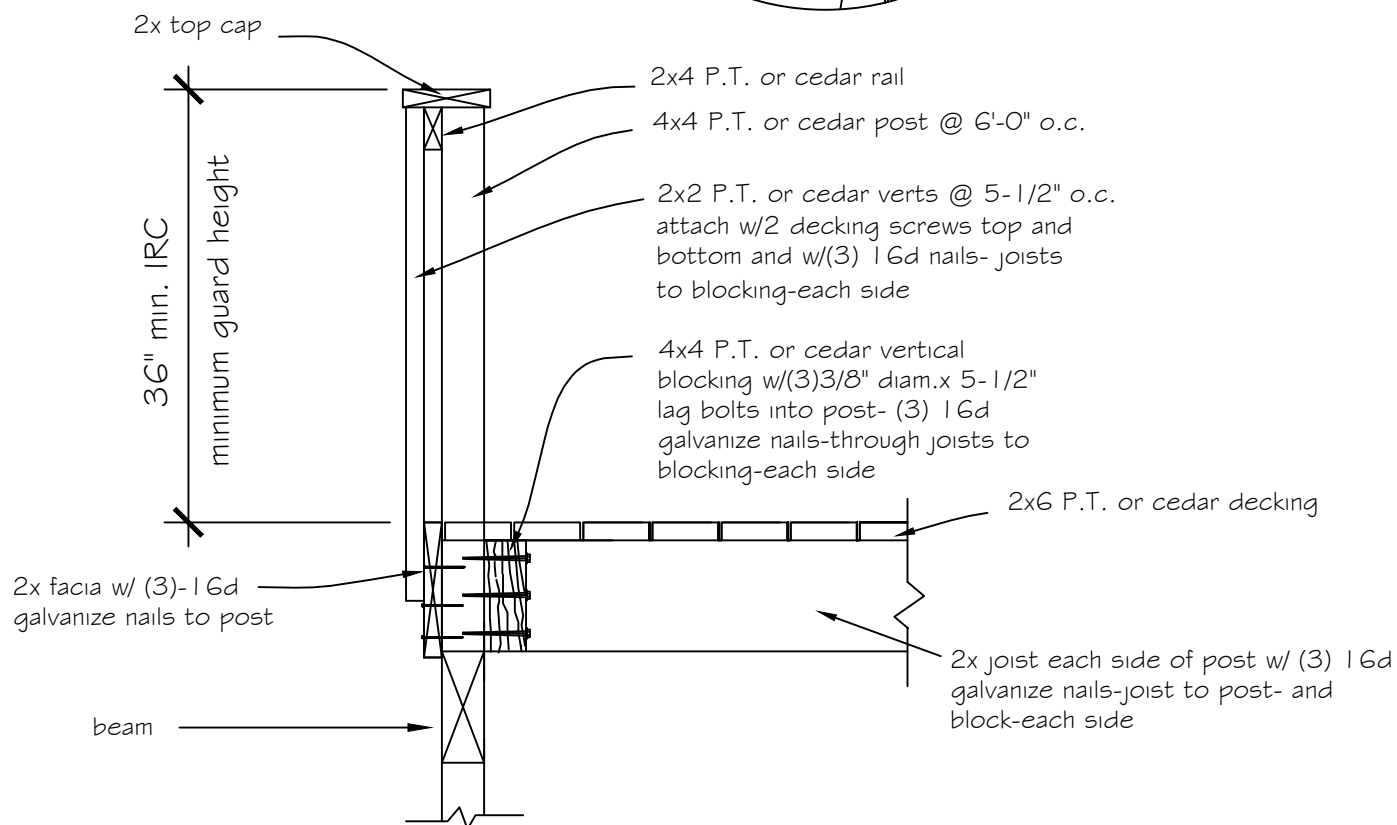
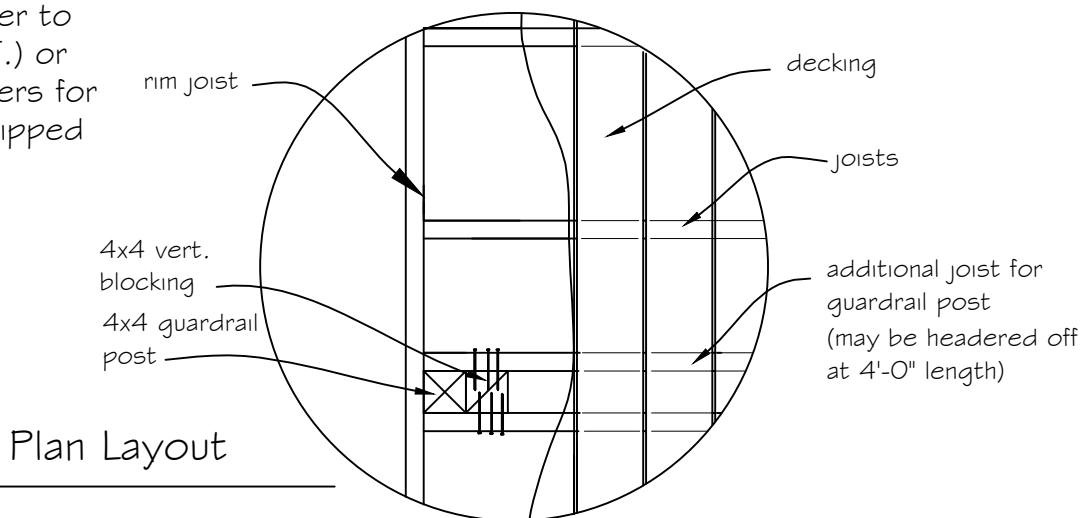
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6B

DECK ATTACHMENT FOR LATERAL LOADS

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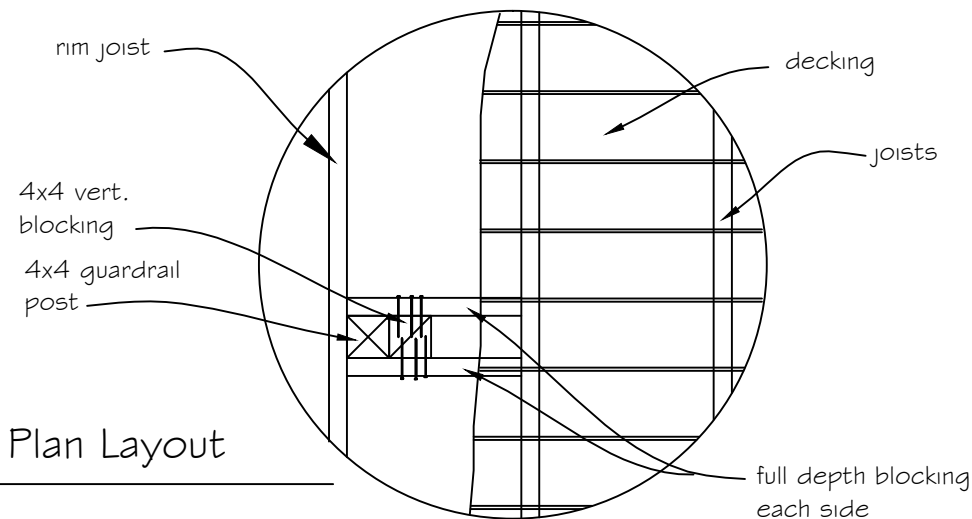
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SECTION THROUGH GUARDRAIL

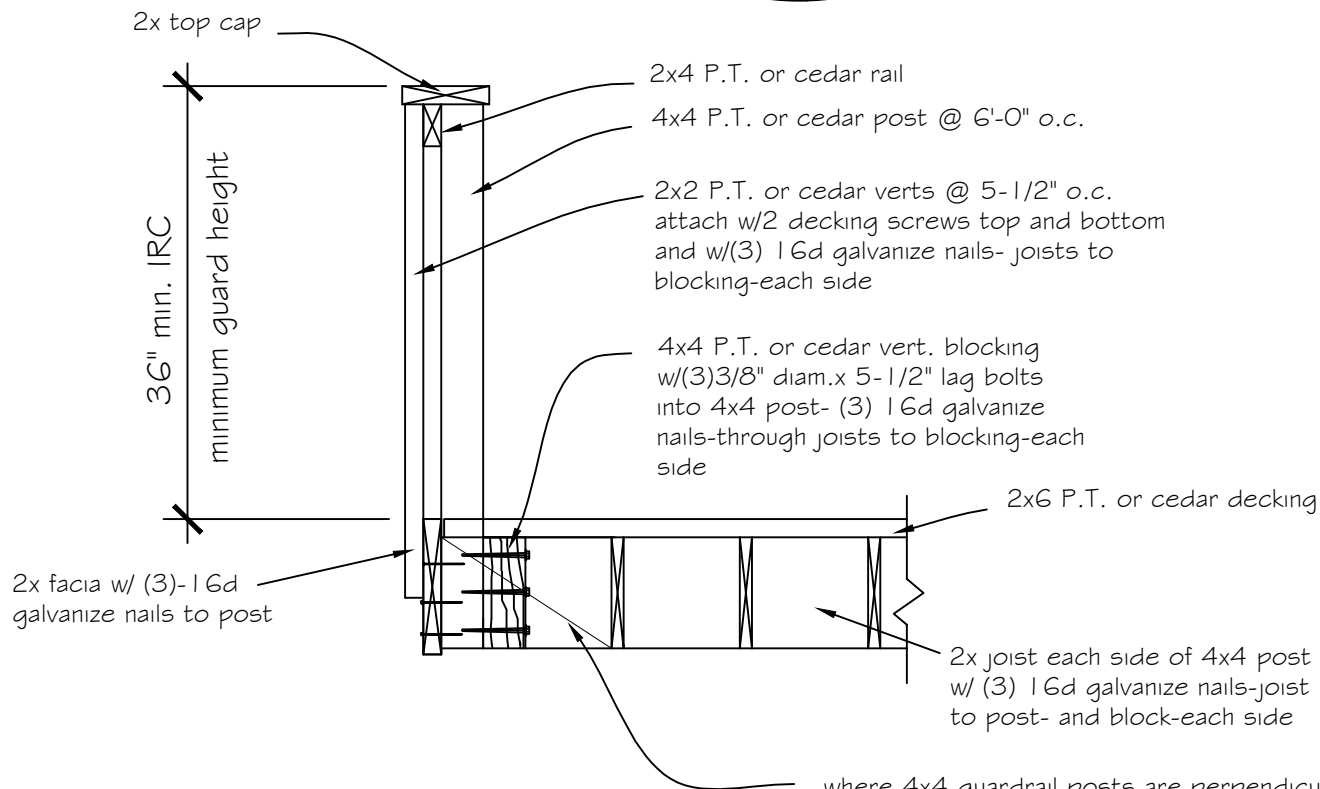
Non-Cantilever

NOTE: See Sheets 1 through 5 for items not noted.
See page 5 for cantilever deck

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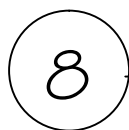


Plan Layout



Section- Guardrail post parallel to joists

where 4x4 guardrail posts are perpendicular
to joists, use 2x solid blocking each side
of 4x4 vert. block and 4x4 guardrail post
and nail to joists and 4x4's w/ (3) 16d

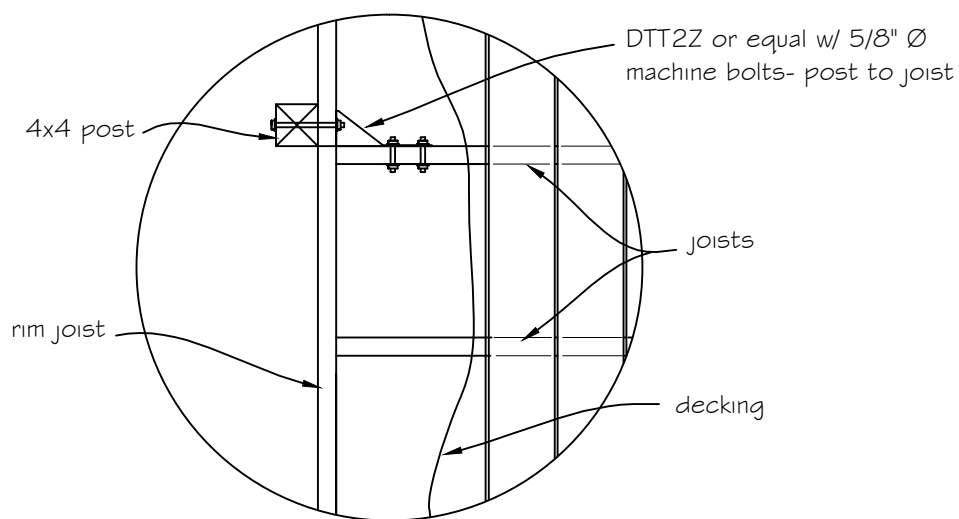


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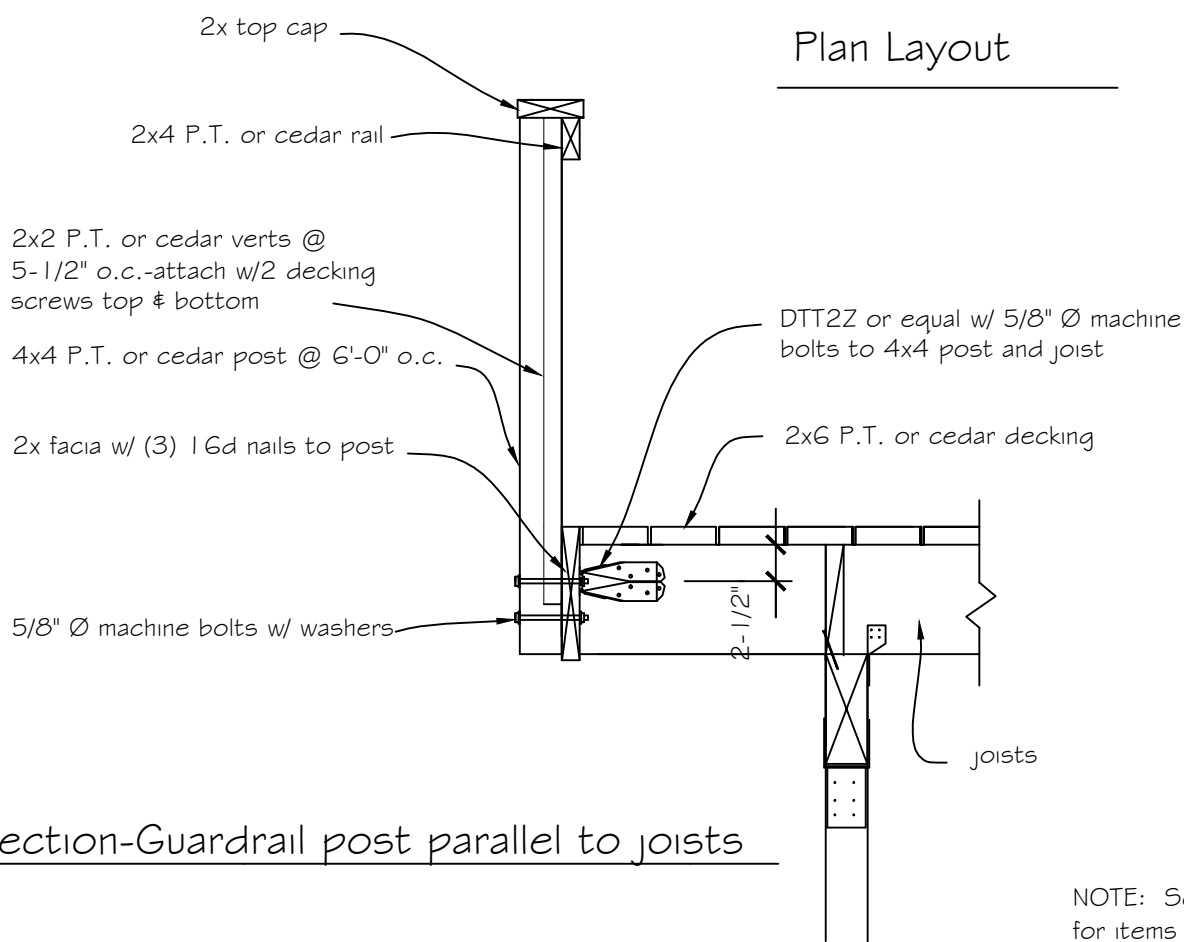
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Plan Layout



Section-Guardrail post parallel to joists

NOTE: See page 5
for items not noted.

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GUARDRAIL ATTACHMENT

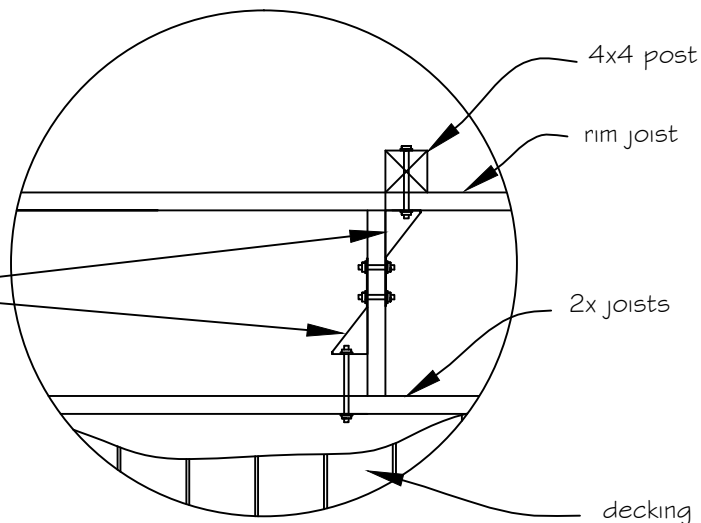
Cantilever

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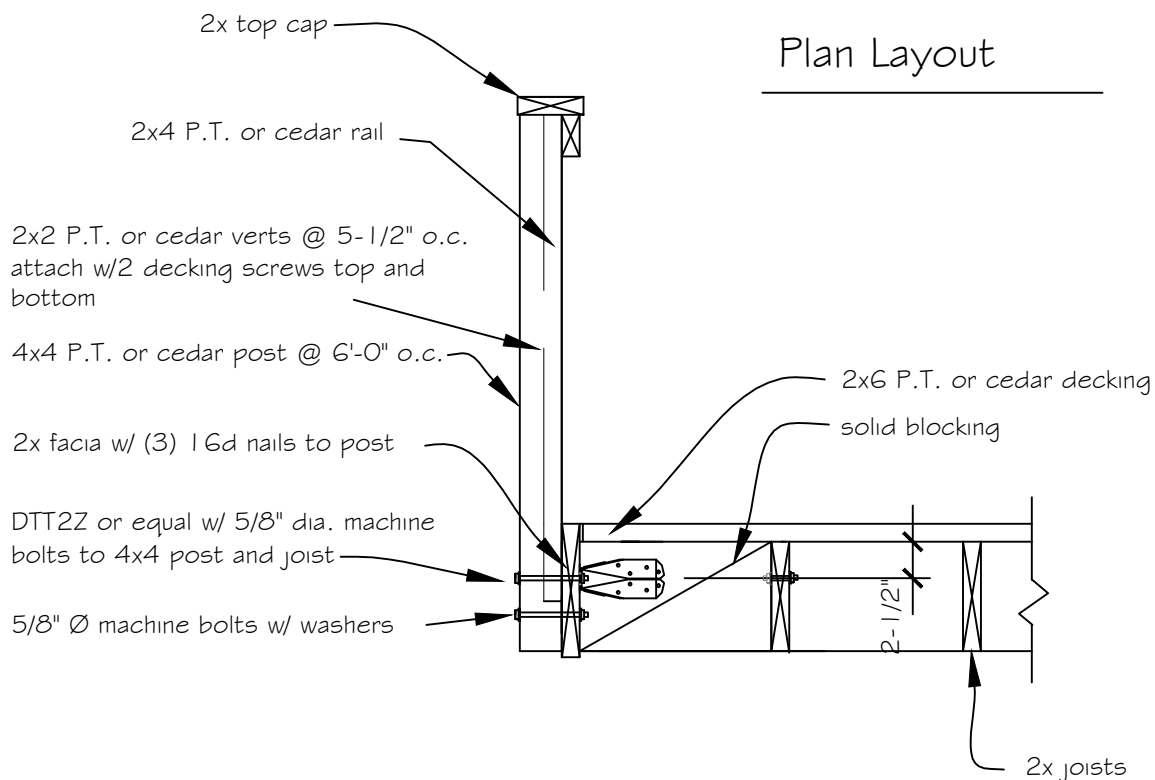
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(2) DTT2Z or equal w/ 5/8" Ø. machine
bolts- post to joist and joist to solid
blocking



Plan Layout



Section- Guardrail post perpendicular to joists

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for items not noted.

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GUARDRAIL ATTACHMENT

Cantilever



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 Shaded area meets beam span

Beams

Deck Beam Span Lengths @ 8'-0"				
Species	size	Joist Deck Span Less than or equal		
		8	10	12
H. F. #1	4 x 8			
H.F. #1	4 x 10			
H.F. #2	4 x 12			
H.F. #1	6 x 8			
H.F. #2	6 x 10			

Deck Beam Span Lengths @ 8'-0"				
Species	size	Joist Deck Span Less than or equal		
		6+2 cant	8+2 cant	10+2 cant
H.F. #1	4 x 10			
H.F. #2	4 x 10			
H.F. #2	4 x 12			
H.F.#1	6 x 8			
H.F #1	6 x 10			
H.F #2	6 x 10			

Deck Beam Span Lengths @ 10'-0"				
Species	size	Joist Deck Span Less than or equal		
		8	10	12
H.F. #1	4 x 10			
H.F. #2	4 x 12			
H.F. #1	6 x 10			
H.F. #2	6 x 10			
H.F. #2	6 x 12			

Deck Beam Span Lengths @ 10'-0"				
Species	size	Joist Deck Span Less than or equal		
		6+2 cant	8+2 cant	10+2 cant
H.F. #1	6 x 10			
H.F. #1	6 x 12			
H.F. #2	6 x 12			

Joist

Table R507.5 Deck joist span				
Species	size	spacing of deck joists with/without cantilever		
pressure treated		12	16	24
Hem-Fir #2	2 x 8	10'-10"	9'-5"	7'-8"
	2 x 10		11'-6"	9'-4"
	2 x 12			10'-10"

Post

Table R507.8 Deck Post Height Hem Fir #2 P.T.	
Deck Post Size	Maximum height
4 x 4 or 4 x 6	8'-0"
6 x 6	14'-0"