



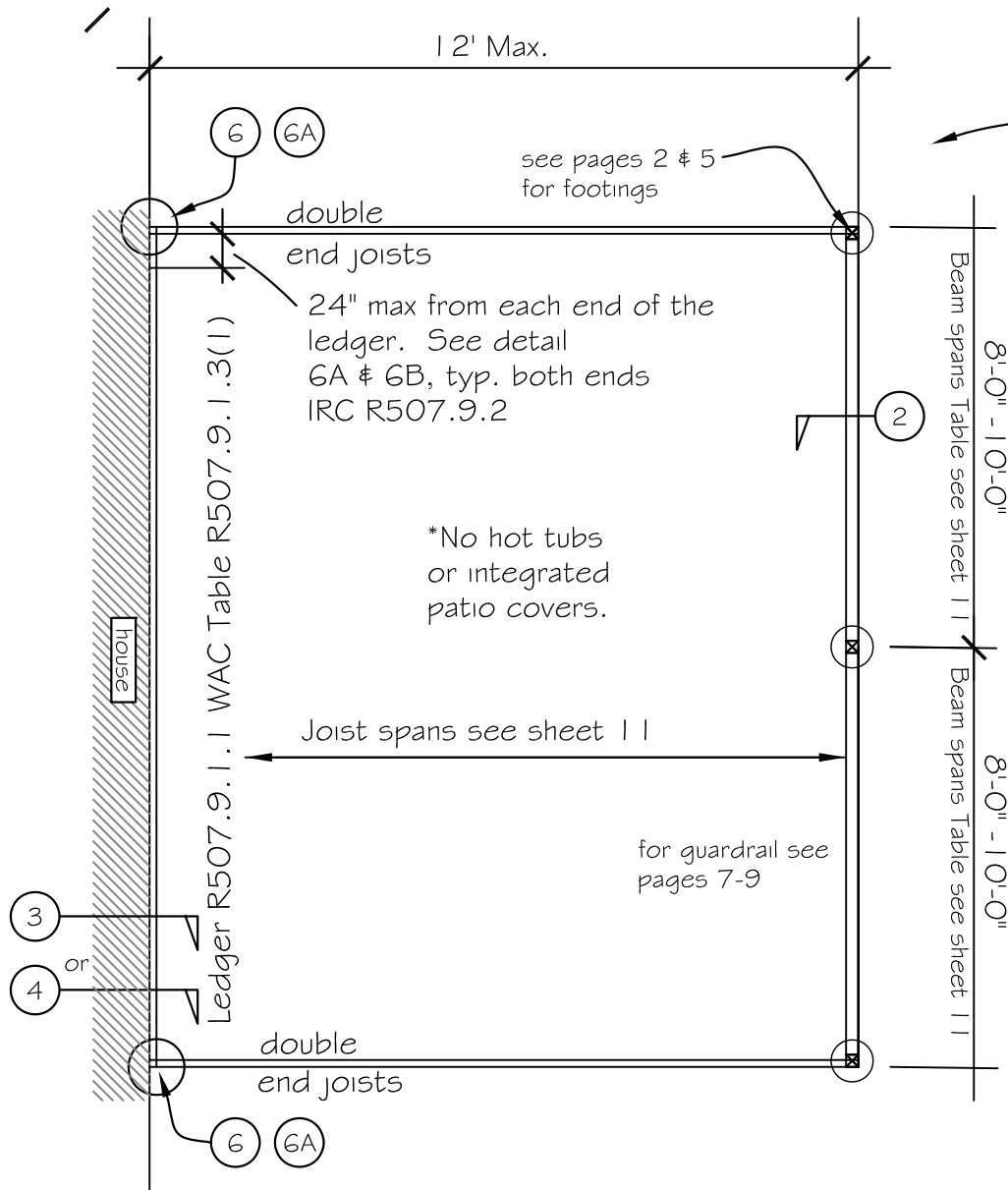
Southwest Washington Chapter of ICC

This construction detail is illustrative of the minimum standard of construction based upon the 2021 IRC / WAC 51-51

Visit our web site at: www.sww-icc.org

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.

WAC Table R507.4 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"



1 DECK FLOOR PLAN - Elevated Deck

- Table R507.3.1 Minimum Footing size for decks.
- Table R507.5/WAC 507.6 Deck Joist spans
- Table R507.6/WAC 507.5 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. Note j.

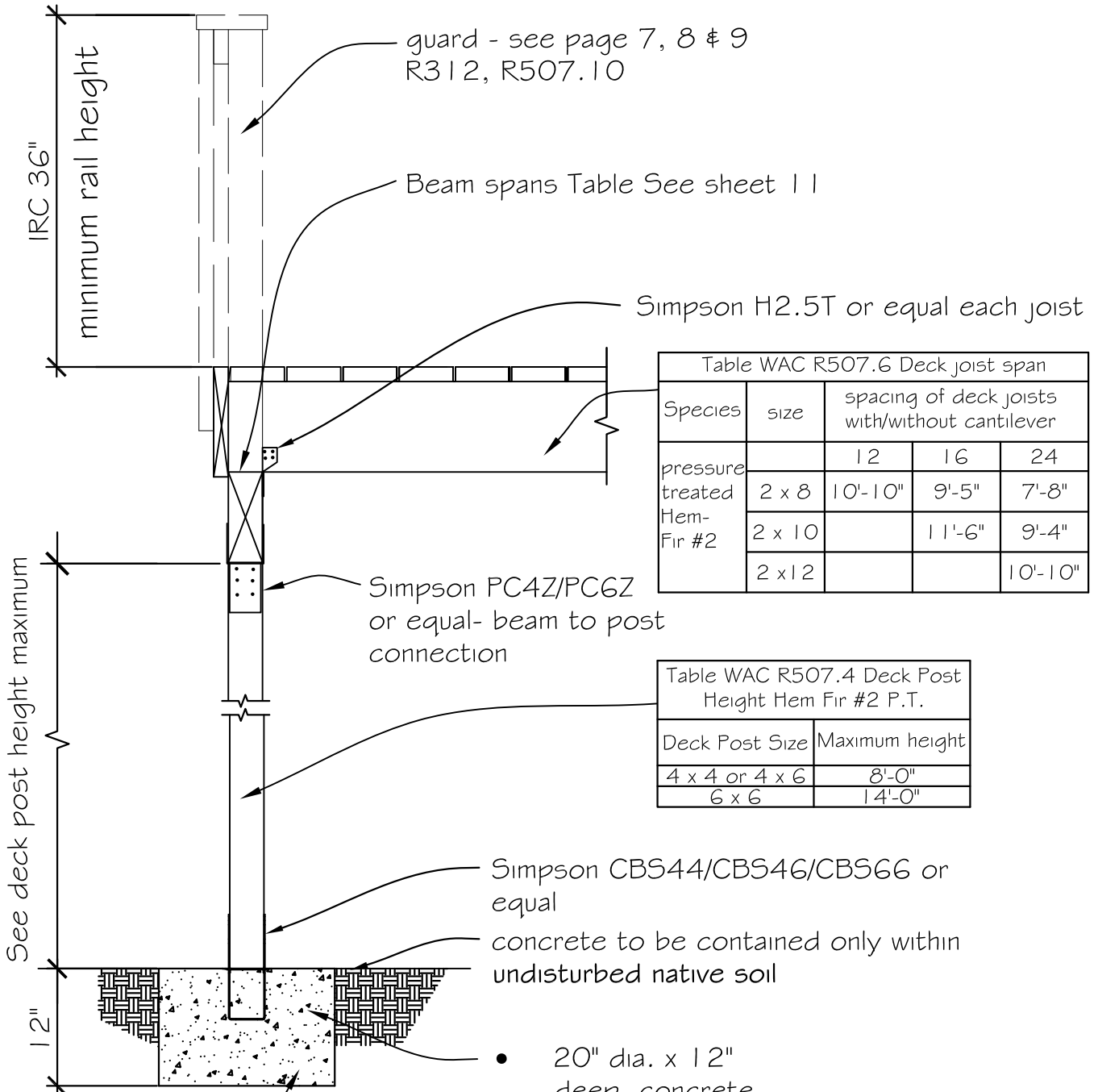


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Species	size	spacing of deck joists with/without cantilever		
		12	16	24
pressure treated Hem-Fir #2	2 x 8	10'-10"	9'-5"	7'-8"
	2 x 10		11'-6"	9'-4"
	2 x 12			10'-10"

Deck Post Size	Maximum height
4 x 4 or 4 x 6	8'-0"
6 x 6	14'-0"

2500 psi concrete

2 SECTION

- 20" dia. x 12" deep concrete footing for the outer post
- 24" dia. x 12" deep concrete footing for the middle post

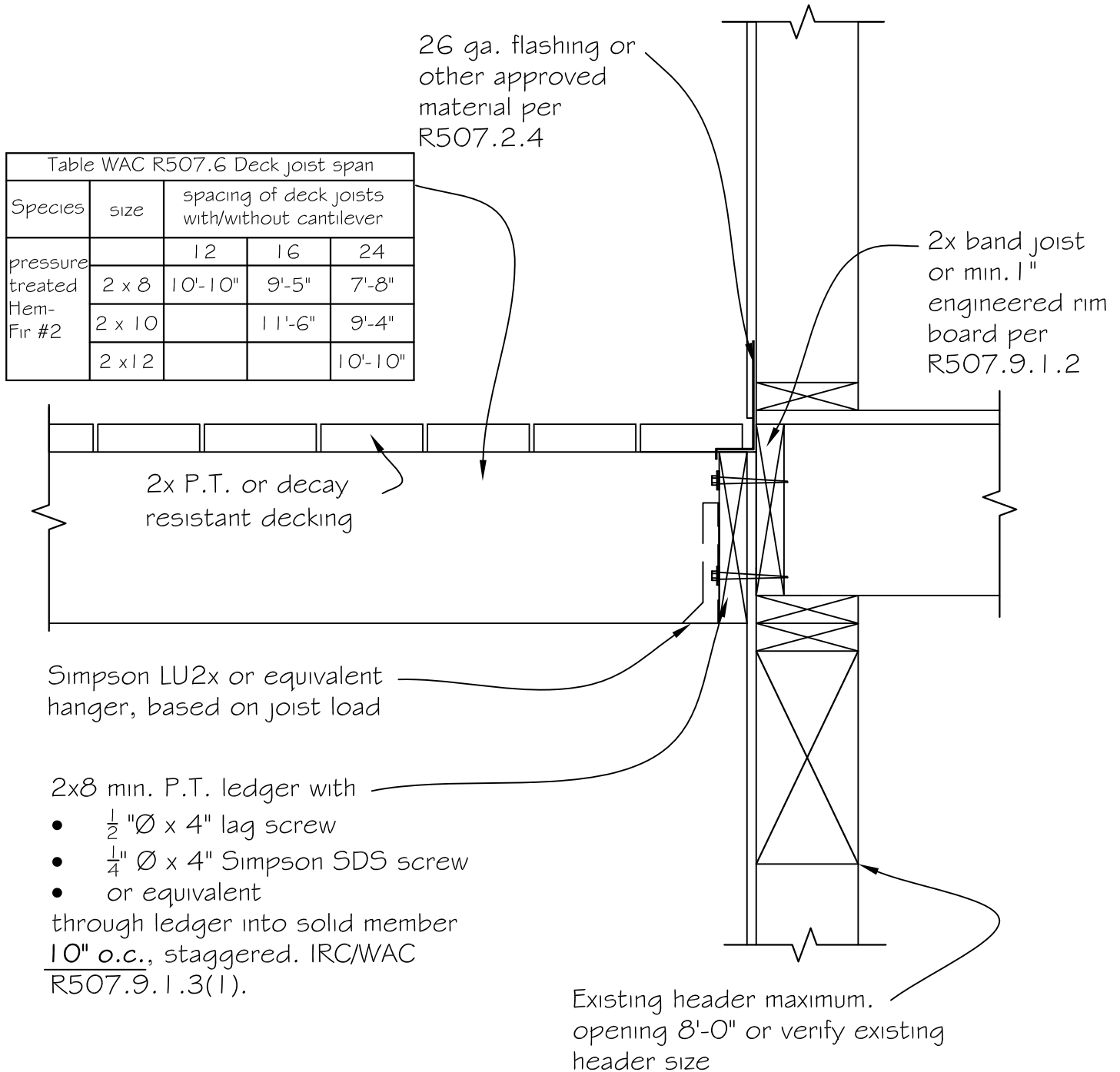


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3 TYPICAL LEDGER CONNECTION OPEN DECK

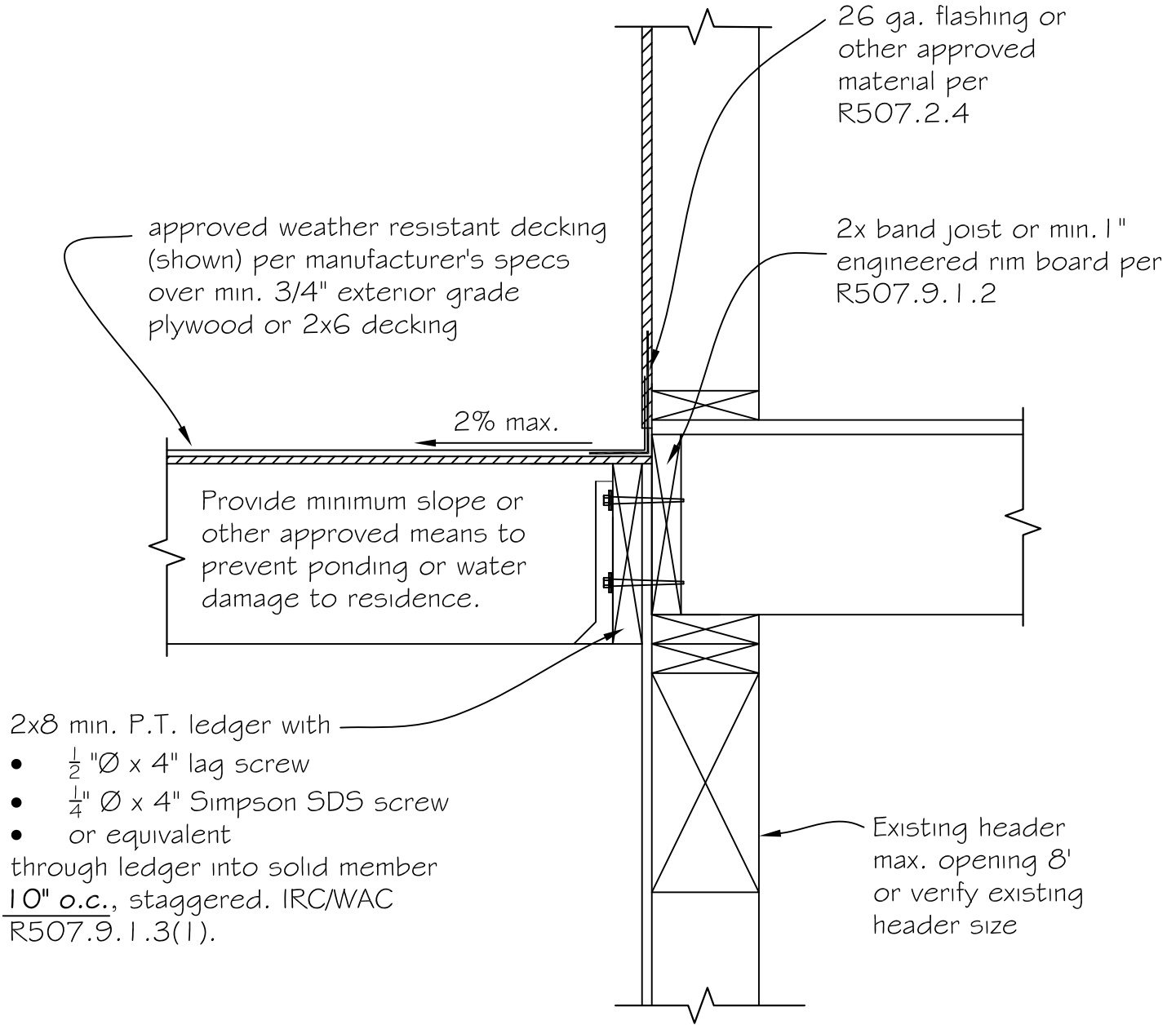


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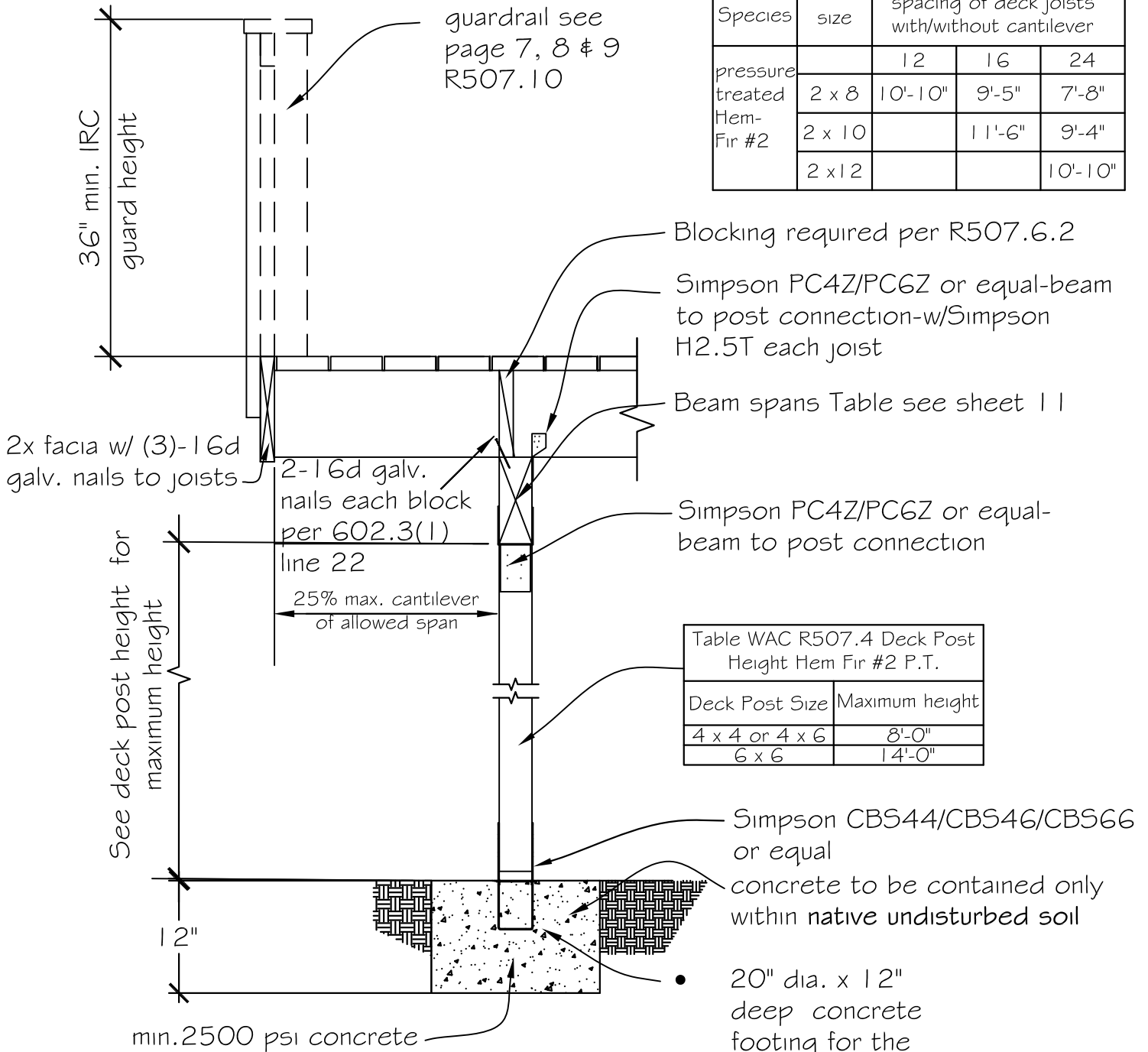


4

TYPICAL LEDGER CONNECTION ENCLOSED DECK

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

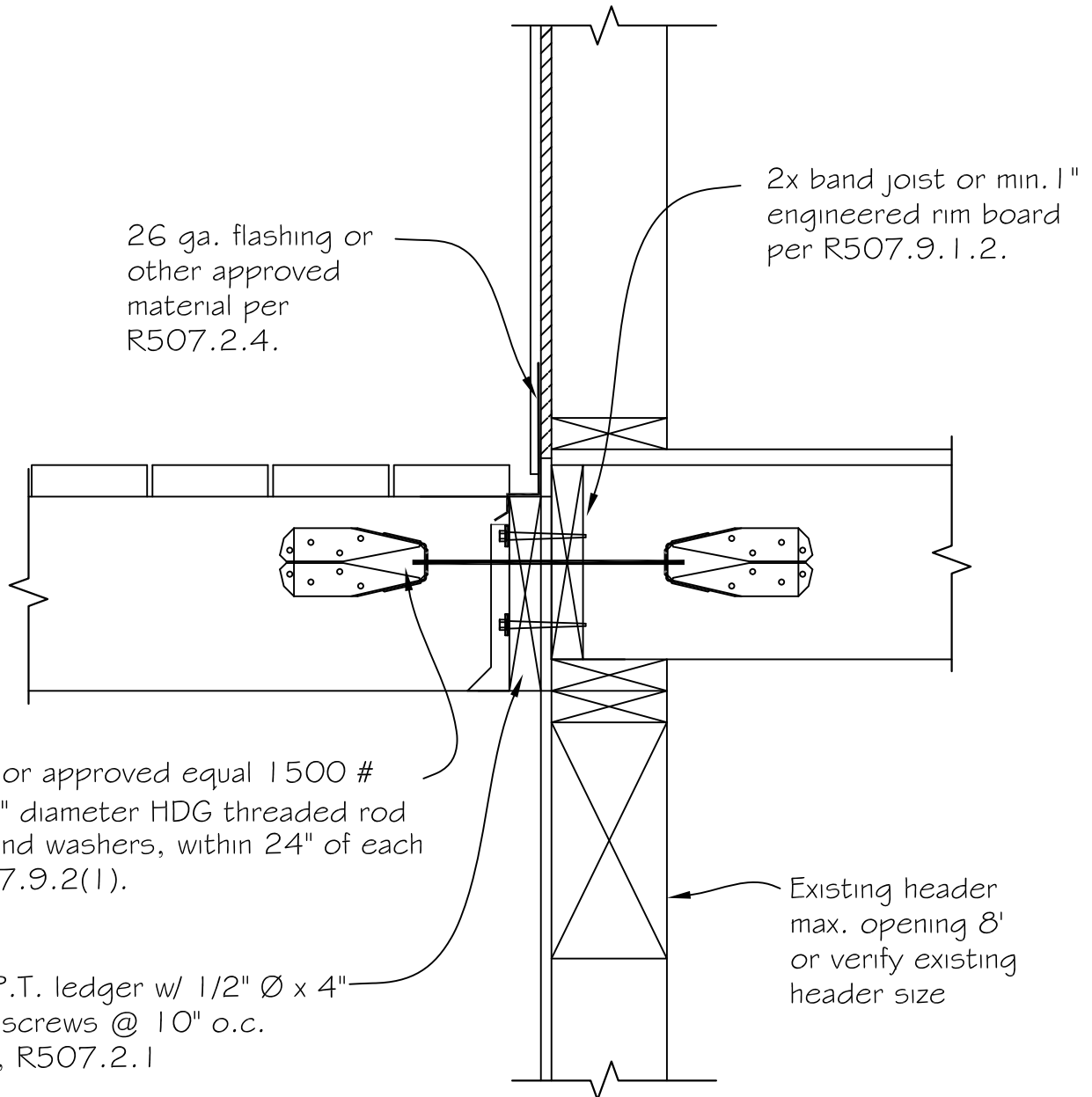
Species	size	spacing of deck joists with/without cantilever		
		12	16	24
pressure treated Hem-Fir #2	2 x 8	10'-10"	9'-5"	7'-8"
	2 x 10		11'-6"	9'-4"
	2 x 12			10'-10"



Deck Post Size	Maximum height
4 x 4 or 4 x 6	8'-0"
6 x 6	14'-0"

5 SECTION
Cantilever Deck

- Simpson CBS44/CBS46/CBS66 or equal concrete to be contained only within native undisturbed soil
- 20" dia. x 12" deep concrete footing for the outer post
- 24" dia. x 12" deep concrete footing for the middle post



NOTES:

1. All exposed lumber to be pressure treated (P.T.) or decay resistant. Fasteners for P.T. wood shall be hot-dipped galvanized or stainless steel.
2. All hardware to be installed per manufacturer specifications.

6A

DECK ATTACHMENT FOR LATERAL LOADS

for (2) 1500# connectors

26 ga. flashing or
other approved
material per
R507.2.4

2x band joist or min. 1"
engineered rim board per
R507.9.1.2

Ledger per WAC Table R507.9.1.3 (1).

Hold-down device min. 750# capacity at 4
locations. Evenly distributed along deck
and one within 24" of each end of the ledger.
Hold-down devices shall fully engage deck
joist per hold-down manufacturer

(4) Simpson DTT I Z or approved equal with $\frac{3}{8}$ "
HDG lag screw with washer, (6) SD # 9x 1 1/2"
screws Or (8) 10d x 1 1/2" nails within 24" of
each end of deck, install in not less than four
locations. R507.9.2(2).

Existing header
max. opening 8'
or verify existing
header size

NOTES:

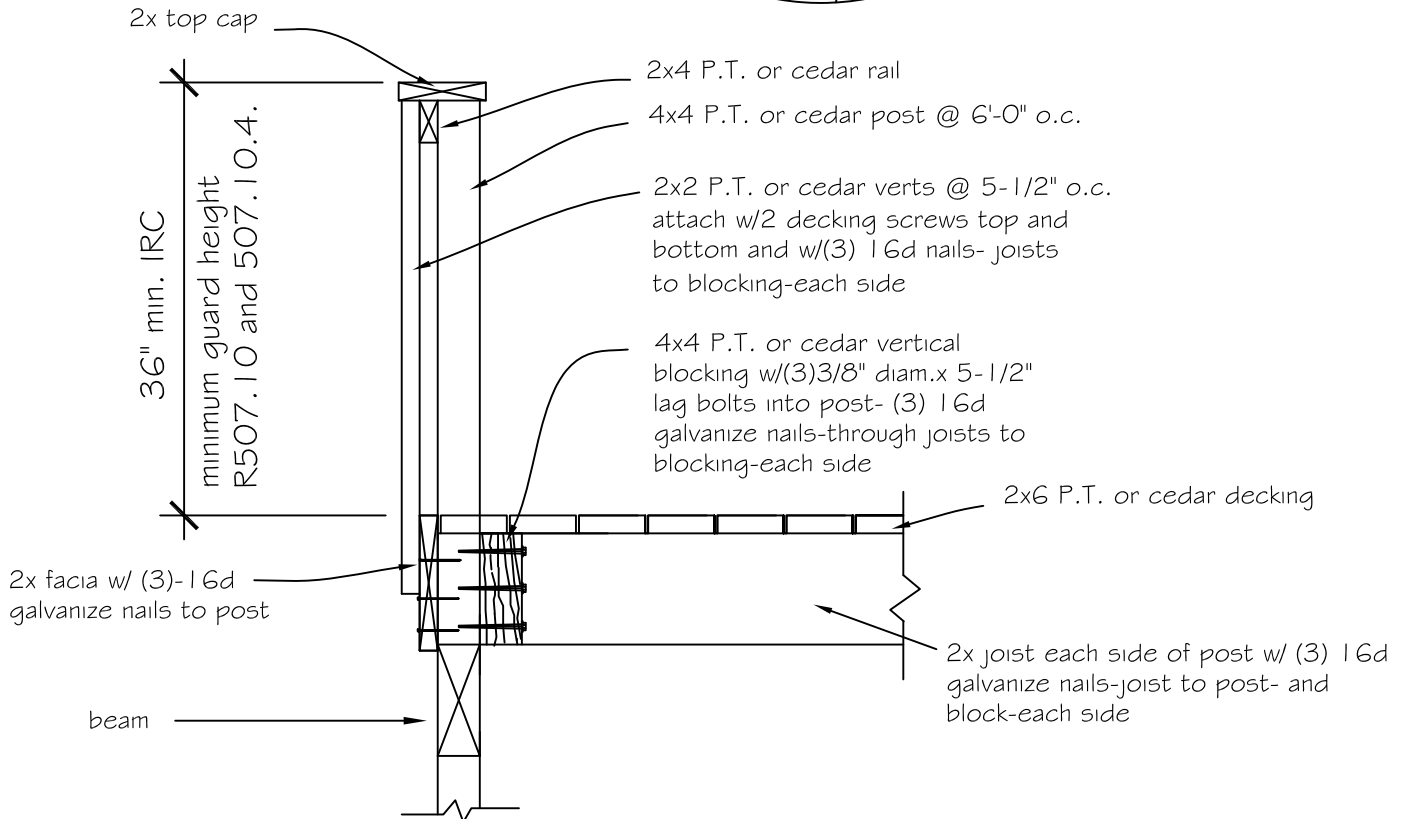
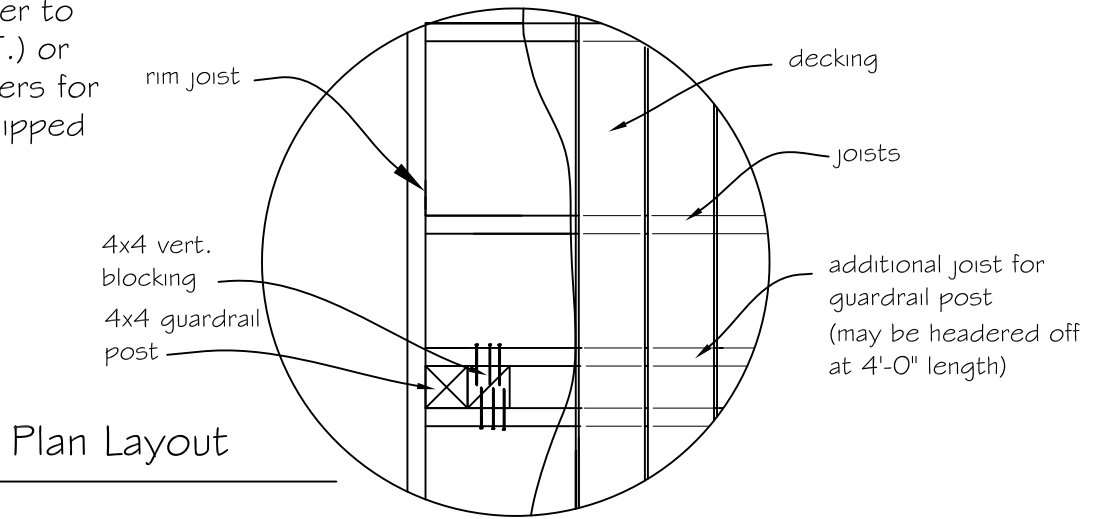
1. All exposed lumber to be pressure treated (P.T.) or decay resistant. Fasteners for P.T. wood shall be hot-dipped galvanize or stainless steel.
2. All hardware to be installed per manufacturer specifications.

6B

DECK ATTACHMENT FOR LATERAL LOADS

for (4) 750# connectors

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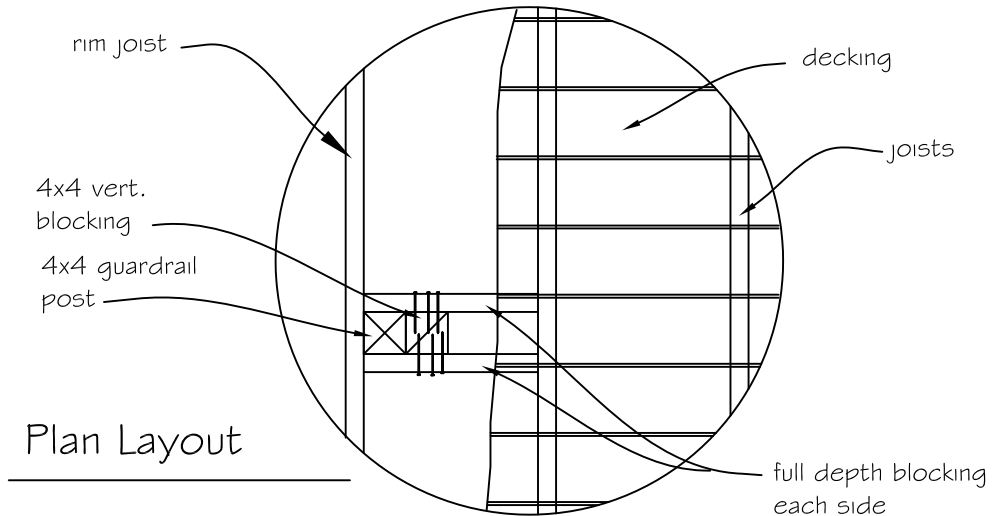


7 SECTION THROUGH GUARDRAIL

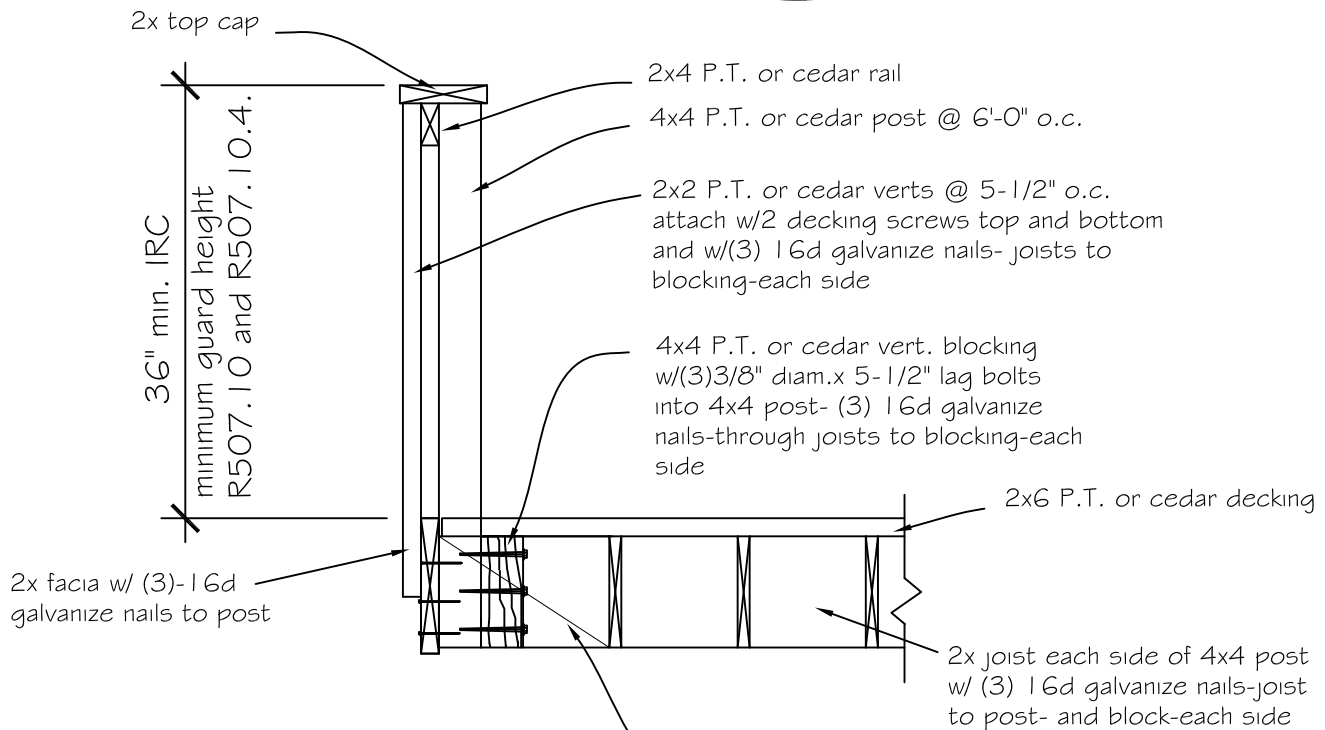
Non-Cantilever

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

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



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

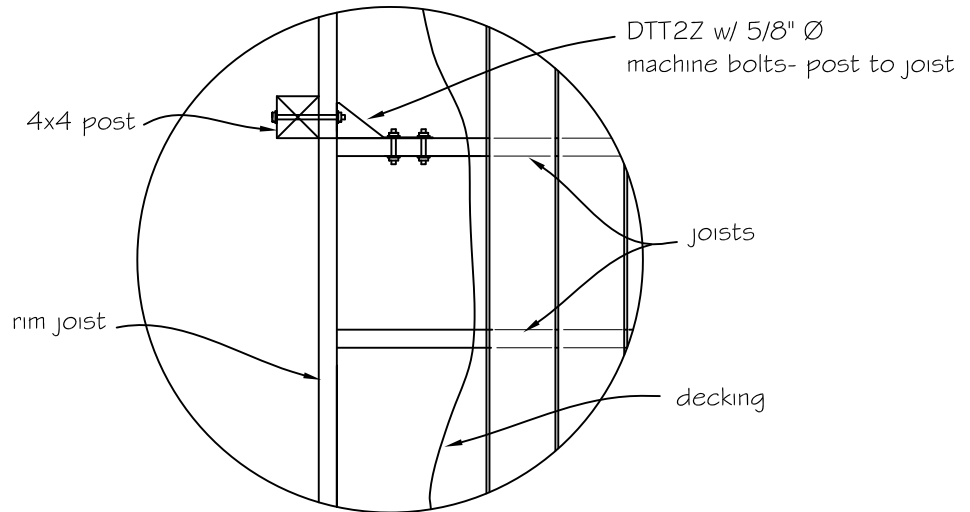
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SECTION THROUGH GUARDRAIL

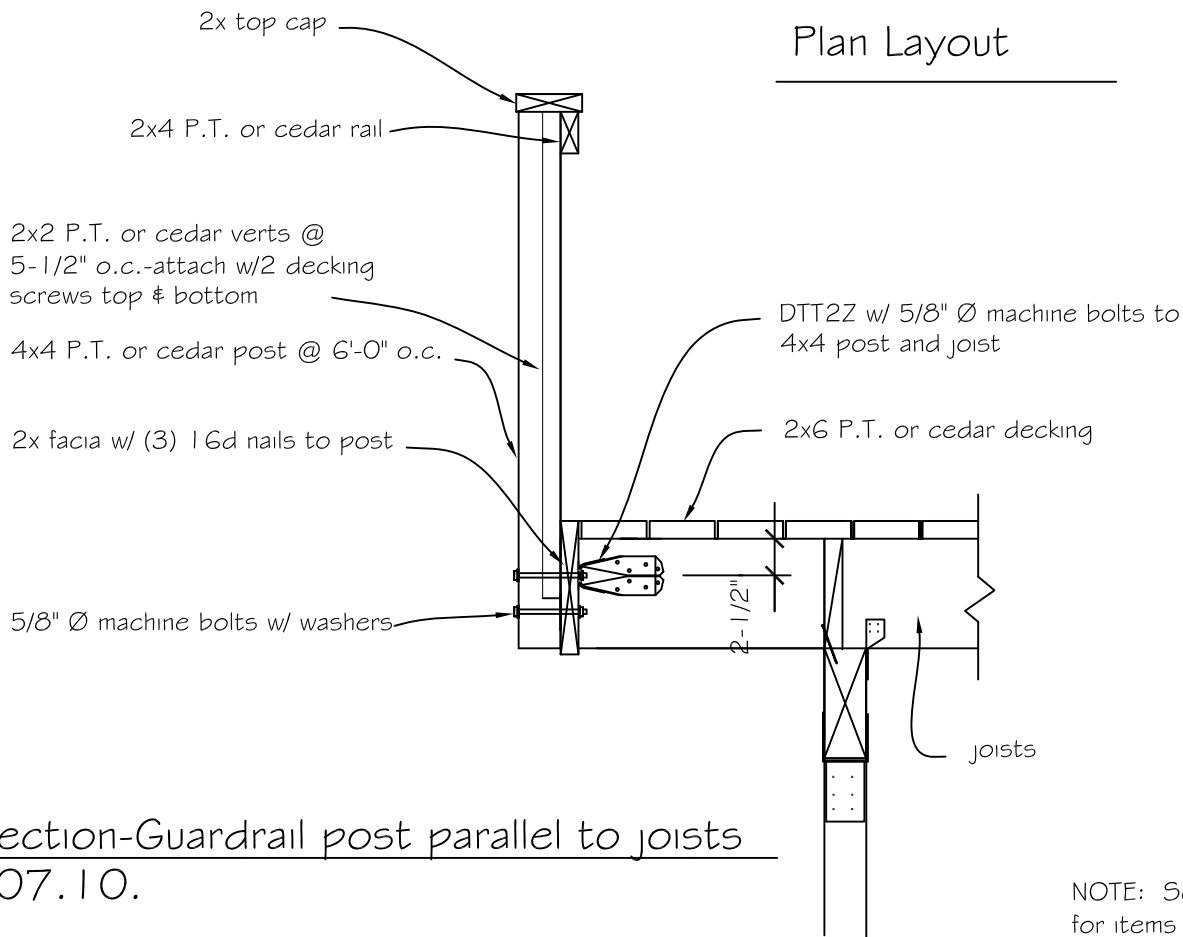
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NOTE: See Sheets 1 through 5 for items not noted. See page 5 for cantilever deck

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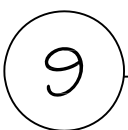


Plan Layout



Section-Guardrail post parallel to joists
507.10.

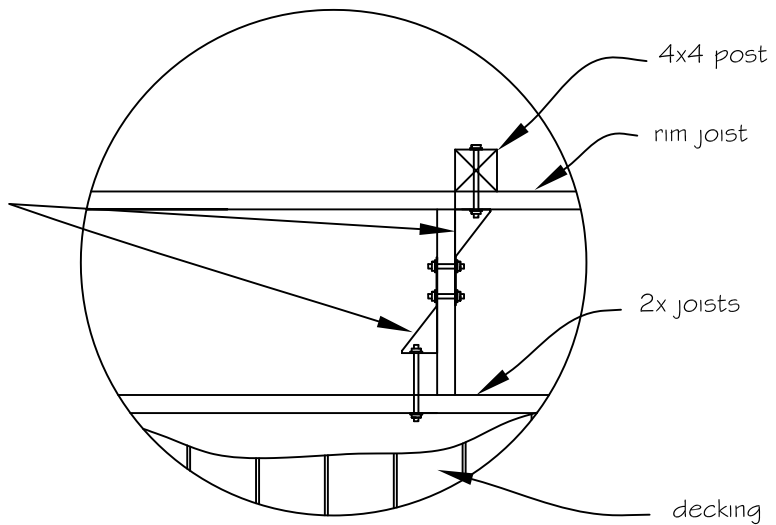
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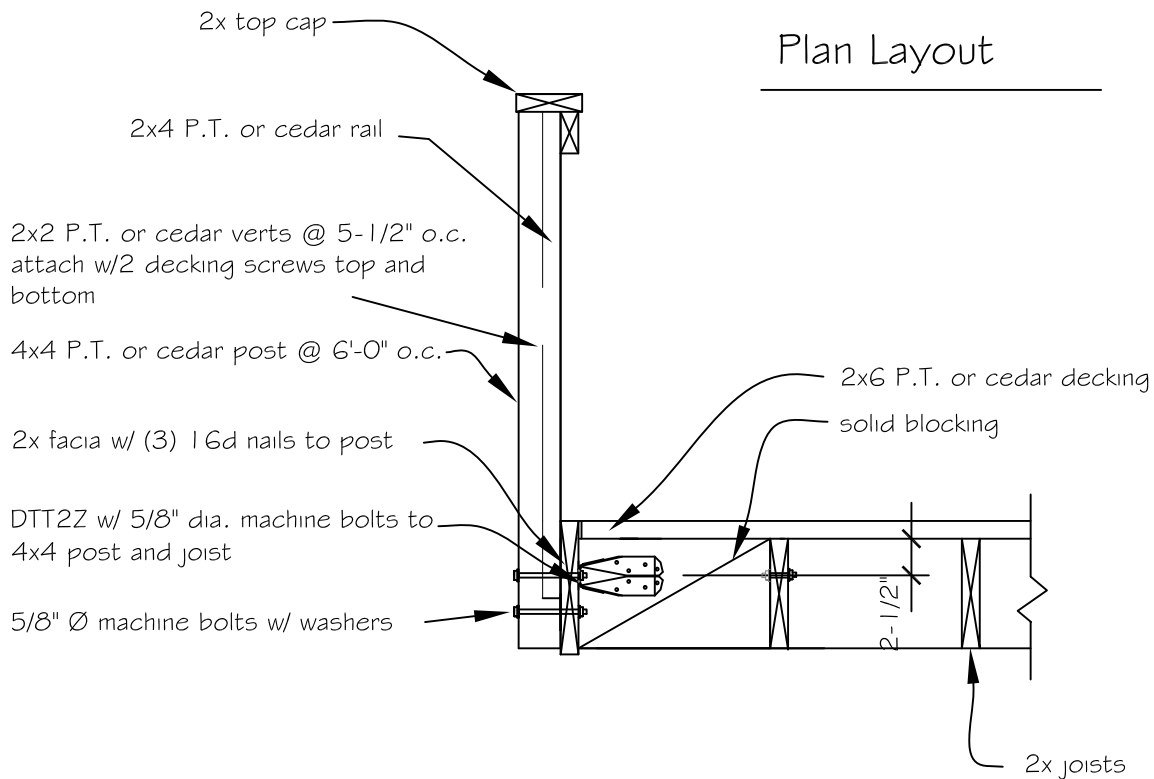
GUARDRAIL ATTACHMENT

Cantilever

(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

R507.10

NOTE: See page 5
for items not noted.

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GUARDRAIL ATTACHMENT

Cantilever



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 Shaded area meets beam span

Beams WAC Table R507.5

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 WAC R507.6 Deck joist span				
Species pressure treated	size	spacing of deck joists with/without cantilever		
		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 WAC R507.4 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"