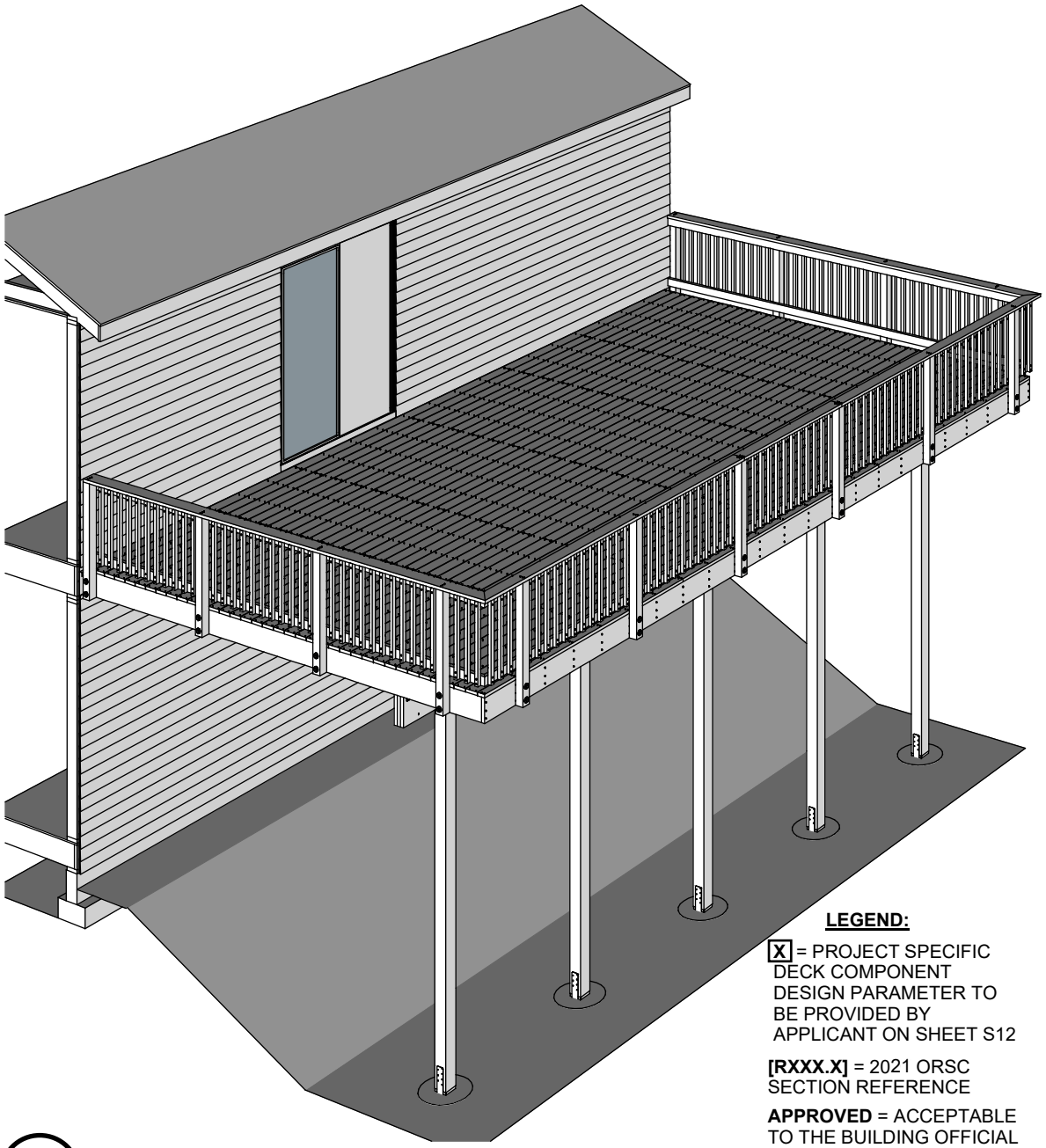

1 General Notes
S01 NTS

LEGEND:

[X] = PROJECT SPECIFIC DECK COMPONENT DESIGN PARAMETER TO BE PROVIDED BY APPLICANT ON SHEET S12

[RXXX.X] = 2021 ORSC SECTION REFERENCE

APPROVED = ACCEPTABLE TO THE BUILDING OFFICIAL [R202]

GENERAL NOTES

SCOPE

SINGLE LEVEL EXTERIOR DECKS ATTACHED TO THE EXTERIOR WALL OF A ONE- OR TWO-FAMILY DWELLING.

APPLICABLE BUILDING CODE

2021 OREGON RESIDENTIAL SPECIALTY CODE (ORSC).

LIMITATIONS OF USE

USE OF AND ANY MODIFICATIONS TO THESE READY-BUILD PLANS IS SUBJECT TO REVIEW AND APPROVAL BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

A. ULTIMATE WIND SPEED: 105-135MPH
B. WIND EXPOSURE CATEGORY: B, C, OR D
C. SEISMIC DESIGN CATEGORY: C, D_1, OR D_2
D. GROUND SNOW LOAD: $\leq$ 40 PSF

DECKS SUPPORTING LARGE CONCENTRATED LOADS SUCH AS HOT TUBS ARE BEYOND THE SCOPE OF THIS DOCUMENT.

APPLICANT SHALL USE THE CODE PRESCRIBED TABLES CONTAINED HEREIN AND RECORD THEIR PROJECT SPECIFIC DESIGN PARAMETERS ([X]) ON SHEET **S12** PRIOR TO PERMIT APPLICATION.

FOUNDATION

FOOTINGS SHALL BEAR ON NATIVE, INORGANIC, UNDISTURBED SOIL BELOW EXISTING GRADE. CONCRETE STRENGTH SHALL BE 3,000 PSI IN MODERATE WEATHERING REGIONS AND 3,500 PSI IN SEVERE WEATHERING REGIONS (SEE DETAIL 1/S11) [R301.2 AND R402.2].

WOOD FRAMING

ALL WOOD SHALL BE *APPROVED* NATURALLY DURABLE OR PRESSURE-PRESERVATIVE-TREATED (R317.1). ALL WOOD IN CONTACT WITH THE GROUND, OR EMBEDDED IN CONCRETE SHALL BE APPROVED PRESSURE-PRESERVATIVE-TREATED WOOD SUITABLE FOR GROUND CONTACT USE (R317.1.2). ALL CUTS SHALL BE FIELD TREATED WITH COPPER NAPHTHENATE (2% COPPER) [R402.1.2].

FASTENERS, ANCHORS, AND CONNECTORS

FASTNERS SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR APPROVED FOR USE WITH PRESERVATIVE-TREATED LUMBER. COATING TYPES FOR FRAMING ANCHORS SHALL BE IN ACCORDANCE WITH MFR'S RECOMMENDATIONS (SHALL BE PROVIDED WITH SUBMITTAL) [R317.3].

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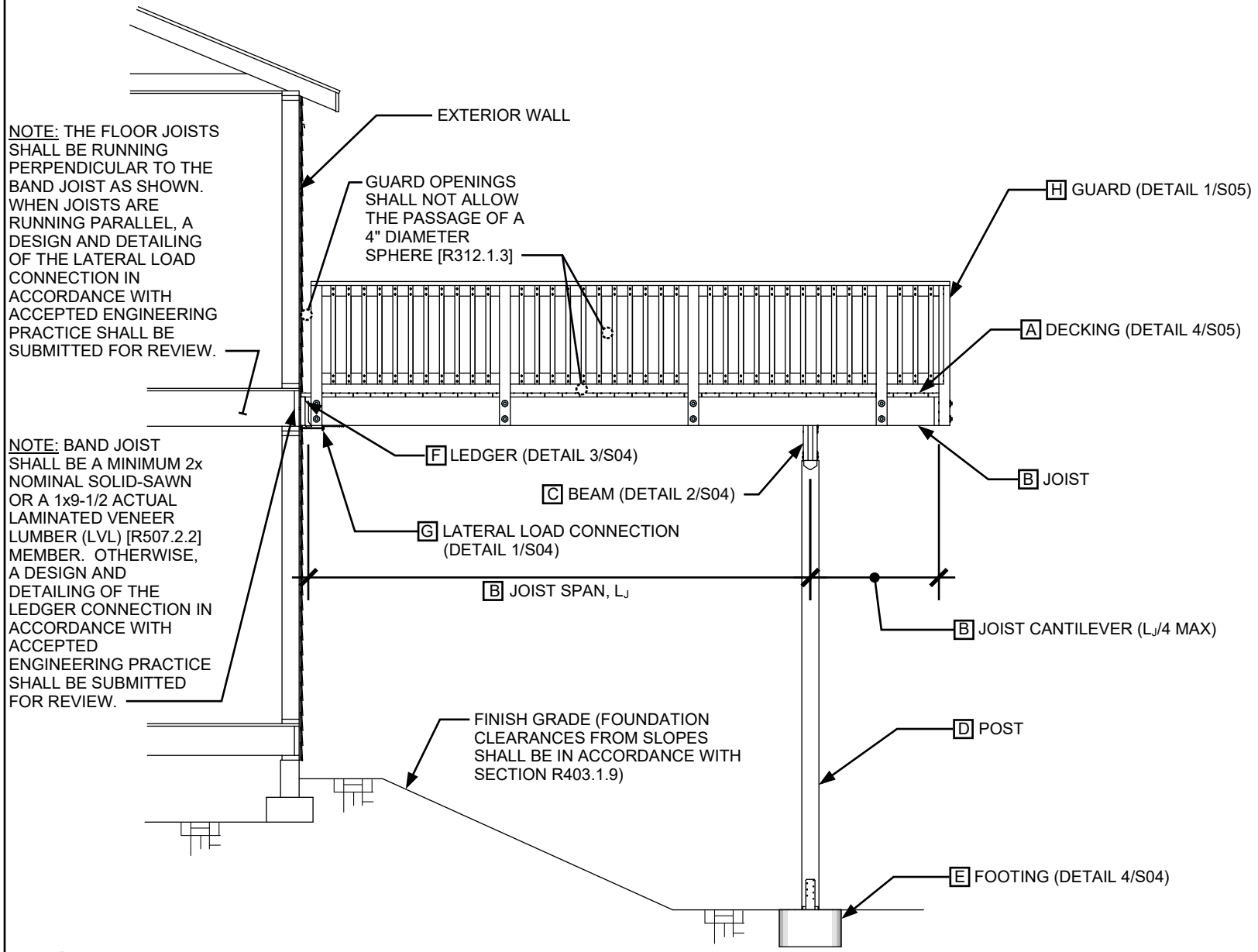
General Notes

S01



1 / S02 Side Elevation NTS

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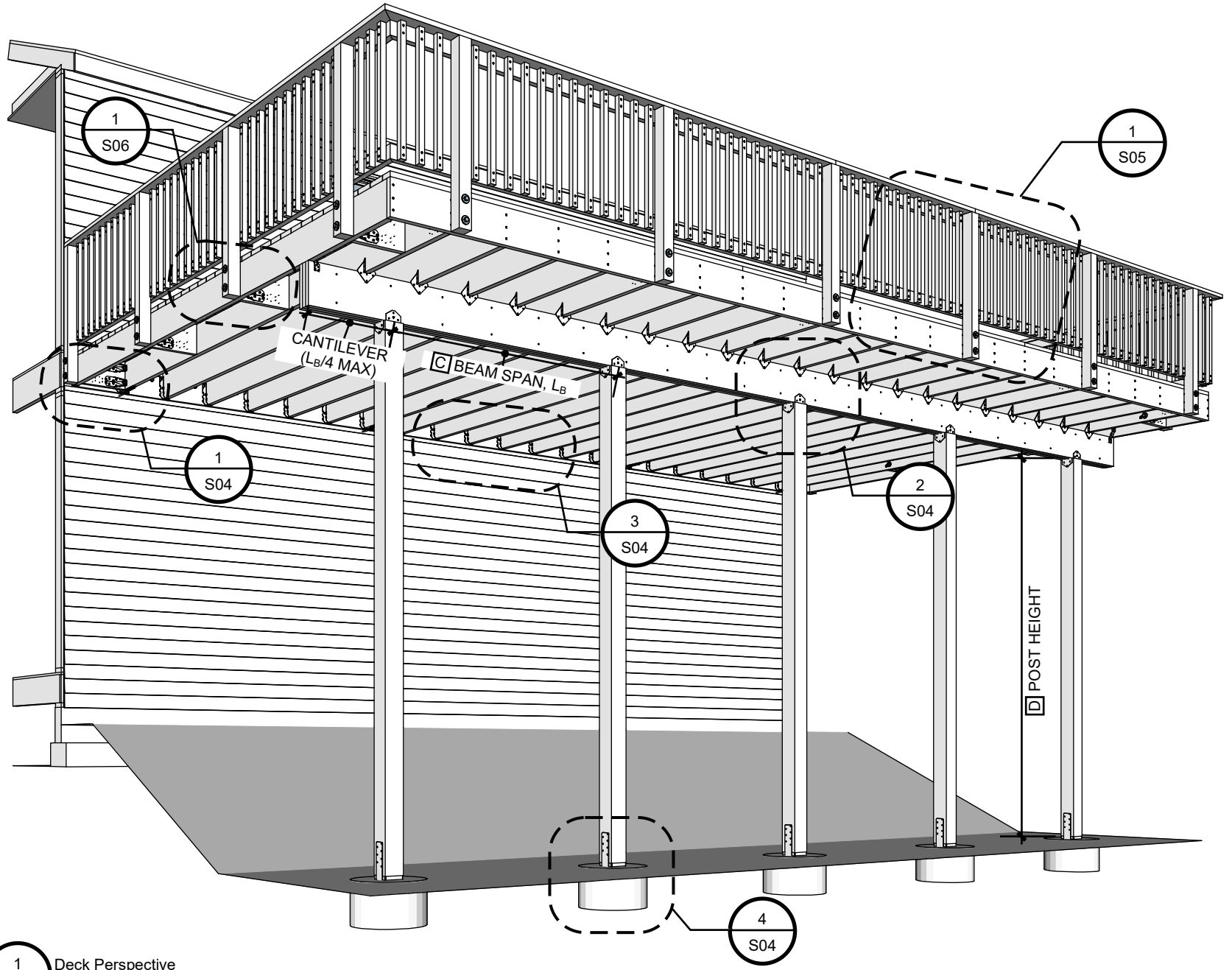

1 / S03 Deck Perspective
NTS

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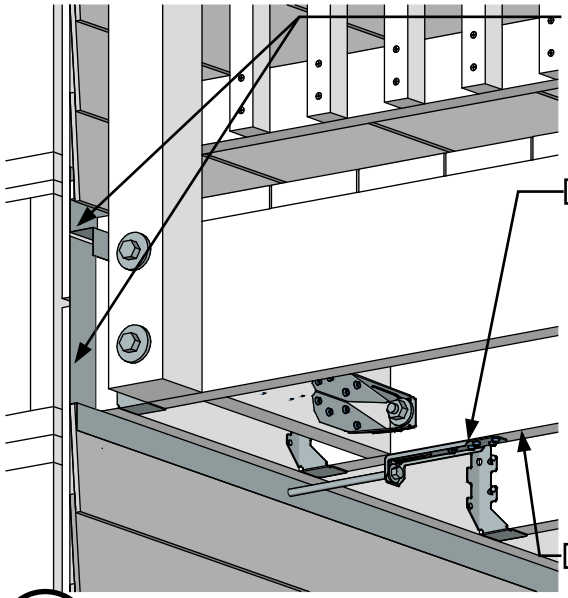
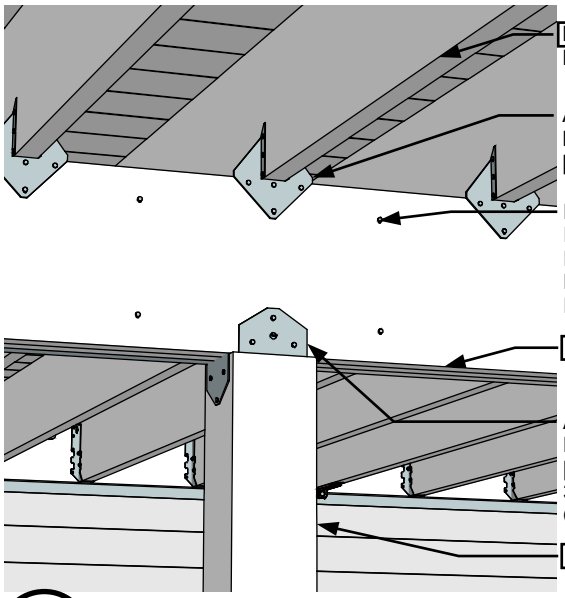
S03



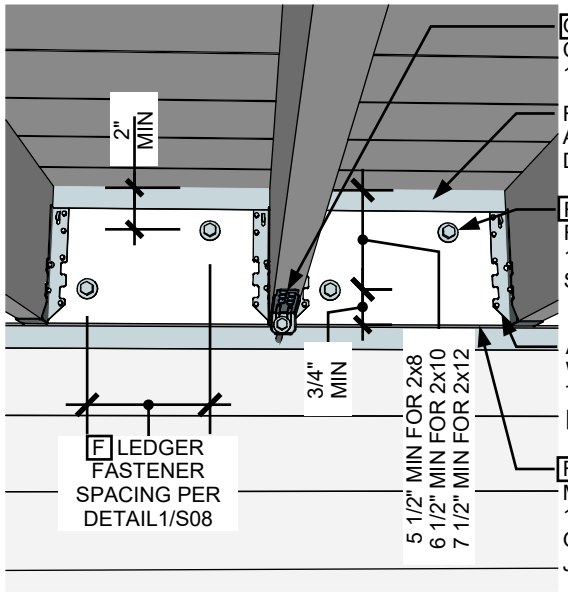
1 S04 Lateral load connection

NTS



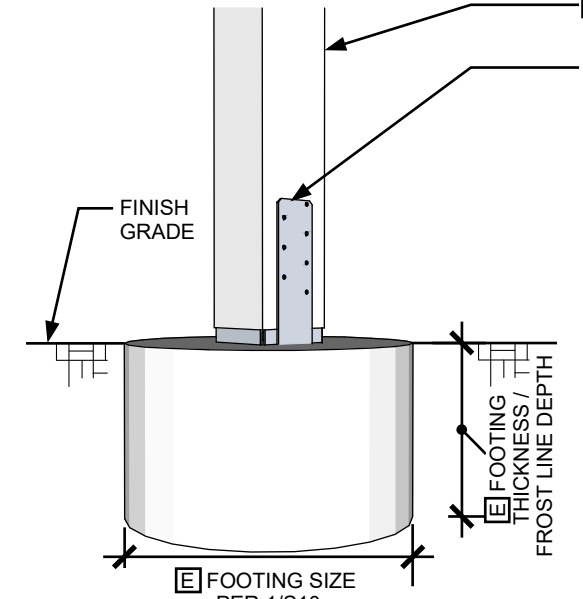
2 S04 Joist to beam and beam to post connection

NTS



3 S04 Ledger connection

NTS



4 S04 Post to footing connection

NTS

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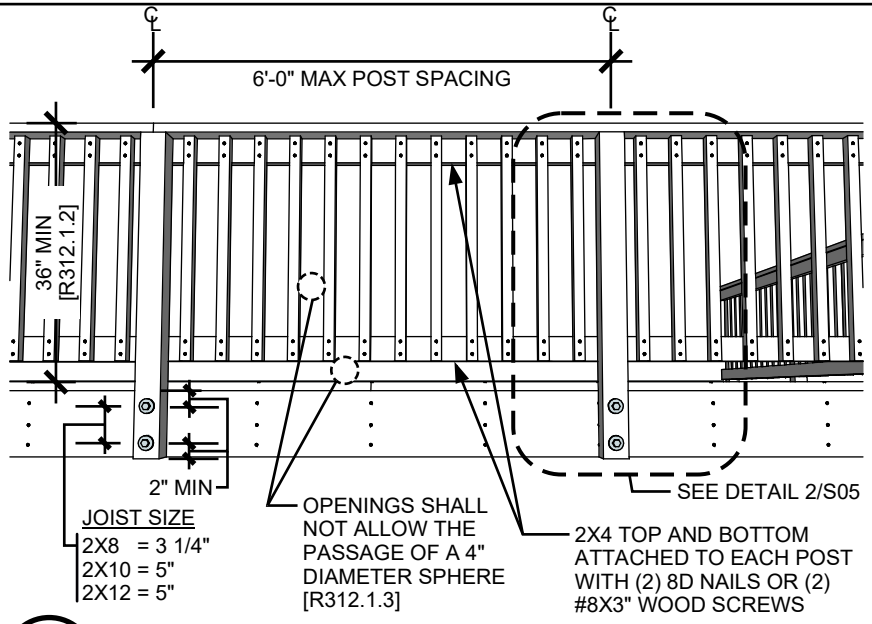
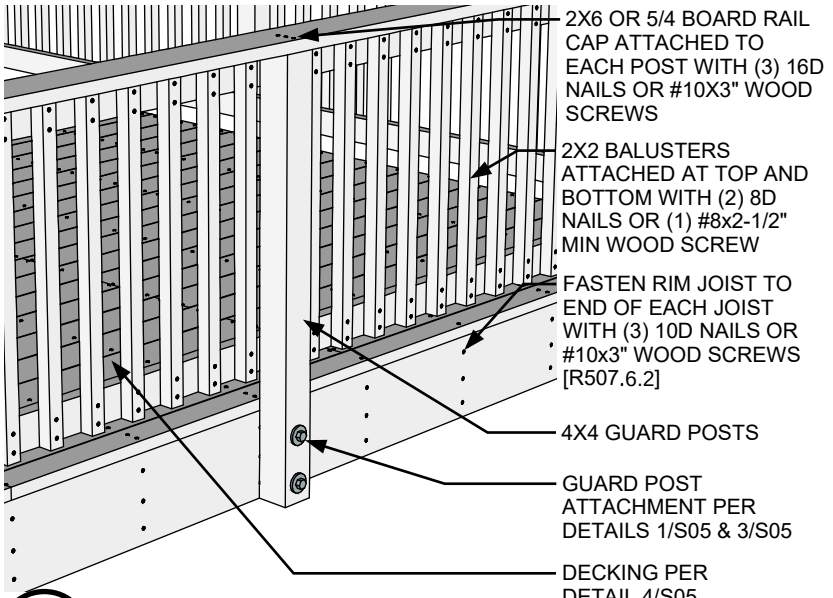
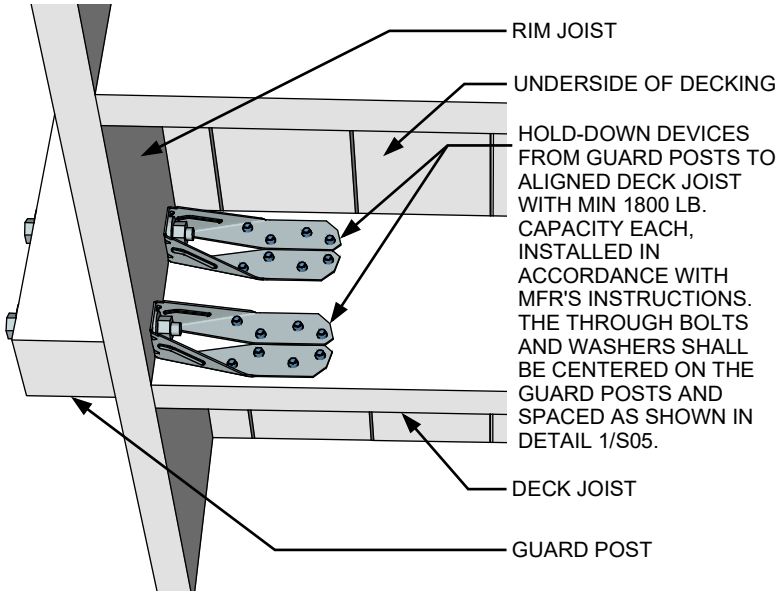


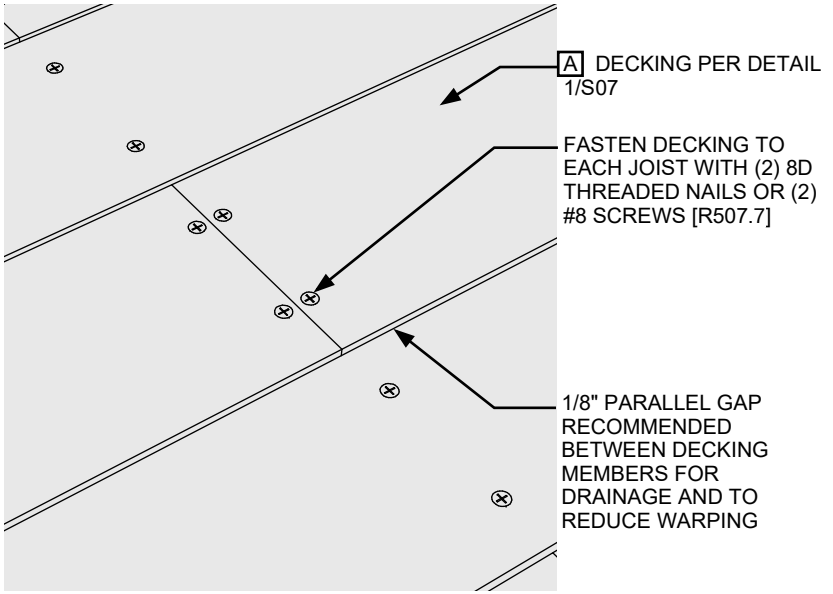
1 S05 Deck guard
NTS



2 S05 Deck guard
NTS



3 S05 Guard post to joist connection
NTS



4 S05 Decking connection
NTS

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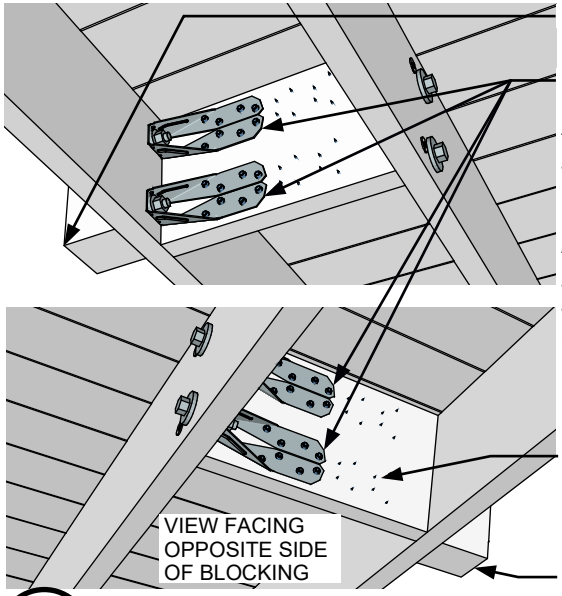
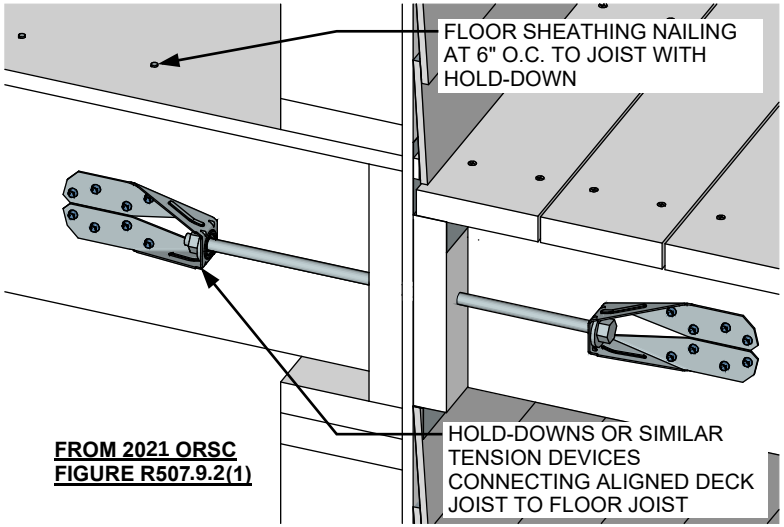


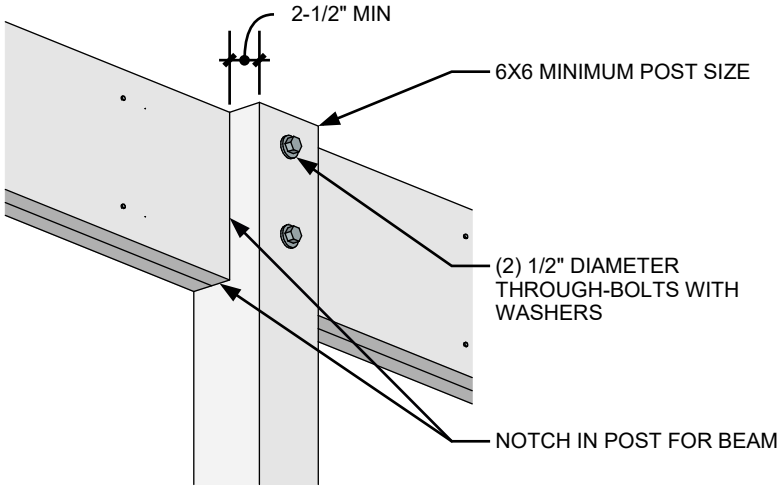
1 S06 Guard post to blocking connection
NTS



FROM 2021 ORSC FIGURE R507.9.2(1)

NOTE: HOLD-DOWN TENSION DEVICES PER THIS DETAIL SHALL HAVE 1,500 LB. MINIMUM CAPACITY, BE INSTALLED IN NOT LESS THAN TWO LOCATIONS, AND BE WITHIN 24 INCHES OF EACH END OF DECK.

2 S06 Alternate deck attachment for lateral loads
NTS



FROM 2021 ORSC FIGURE R507.5.1(2)

NOTE: ALL BOLTS SHALL HAVE WASHERS UNDER THE HEAD AND NUT.

3 S06 Alternate beam to post connection
NTS

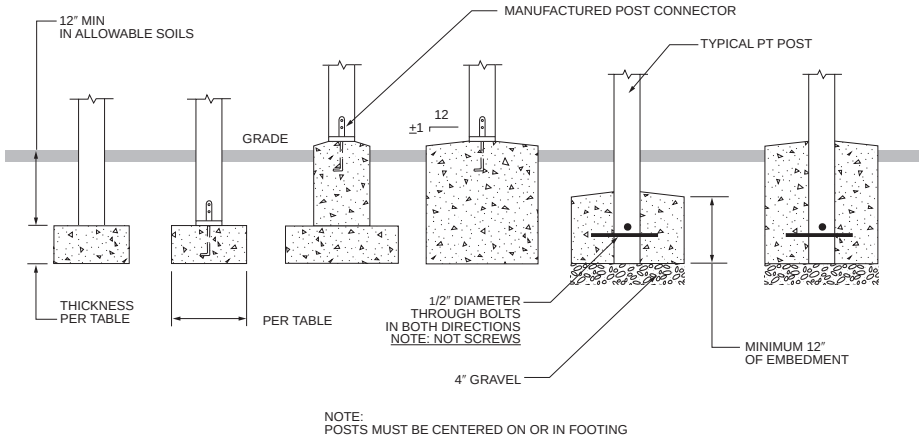


FIGURE R507.3
DECK POSTS TO DECK FOOTING CONNECTION

4 S06 Post to footing connections
NTS

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FROM 2021 ORSC TABLE R507.4

JOIST SPACING

DECKING TYPE AND NOMINAL SIZE	MAXIMUM ON-CENTER JOIST SPACING (in.)	
	Perpendicular to joist	Diagonal to joist[a]
5/4-inch-thick wood	16	12
2-inch-thick wood	24	16
Plastic composite[b]	In accordance with Section R507.2	In accordance with Section R507.2

a. Maximum angle of 45 degrees from perpendicular for wood deck boards.

1 S07 Maximum Joist Spacing Table
NTS

TABLE R507.6
DECK JOIST SPANS FOR COMMON LUMBER SPECIES (ft. - in.)

SPECIES[a]	SIZE	ALLOWABLE JOIST SPAN[b] SPACING OF DECK JOISTS (inches)			MAXIMUM CANTILEVER[c, f] SPACING OF DECK JOISTS WITH CANTILEVERS[c] (inches)		
		12	16	24	12	16	24
Southern pine	2 × 6	9-11	9-0	7-7	1-3	1-4	1-6
	2 × 8	13-1	11-10	9-8	2-1	2-3	2-5
	2 × 10	16-2	14-0	11-5	3-4	3-6	2-10
	2 × 12	18-0	16-6	13-6	4-6	4-2	3-4
Douglas fir-larch[d], hem-fir[d] spruce-pine-fir[d],	2 × 6	9-6	8-8	7-2	1-2	1-3	1-5
	2 × 8	12-6	11-1	9-1	1-11	2-1	2-3
	2 × 10	15-8	13-7	11-1	3-1	3-5	2-9
	2 × 12	18-0	15-9	12-10	4-6	3-11	3-3
Redwood, western cedars, ponderosa pine[e], red pine[e]	2 × 6	8-10	8-0	7-0	1-0	1-1	1-2
	2 × 8	11-8	10-7	8-8	1-8	1-10	2-0
	2 × 10	14-11	13-0	10-7	2-8	2-10	2-8
	2 × 12	17-5	15-1	12-4	3-10	3-9	3-1

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa, 1 pound = 0.454 kg.

a. No. 2 grade with wet service factor.

b. Ground snow load, live load = 40 psf, dead load = 10 psf, L/Δ = 360.

c. Ground snow load, live load = 40 psf, dead load = 10 psf, L/Δ = 360 at main span, L/Δ = 180 at cantilever with a 220-pound point load applied to end.

d. Includes incising factor.

e. Northern species with no incising factor.

f. Cantilevered spans not exceeding the nominal depth of the joist are permitted.

2 S07 Maximum Joist Spans Table
NTS

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TABLE R507.9.1.3(1)
DECK LEDGER CONNECTION TO BAND JOIST[a, b]
(Deck live load = 40 psf, deck dead load = 10 psf, snow load ≤ 40 psf)

CONNECTION DETAILS	JOIST SPAN						
	6′ and less	6′1″ to 8′	8′1″ to 10′	10′1″ to 12′	12′1″ to 14′	14′1″ to 16′	16′1″ to 18′
	On-center spacing of fasteners						
1/2-inch diameter lag screw with 1/2-inch maximum sheathing[c, d]	30	23	18	15	13	11	10
1/2-inch diameter bolt with 1/2-inch maximum sheathing[d]	36	36	34	29	24	21	19
1/2-inch diameter bolt with 1-inch maximum sheathing[e]	36	36	29	24	21	18	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa.

a. Ledgers shall be flashed in accordance with Section R703.4 to prevent water from contacting the house band joist.
b. Snow load shall not be assumed to act concurrently with live load.
c. The tip of the lag screw shall fully extend beyond the inside face of the band joist.
d. Sheathing shall be wood structural panel or solid sawn lumber.
e. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard, lumber or foam sheathing. Up to 1/2-inch thickness of stacked washers shall be permitted to substitute for up to 1/2 inch of allowable sheathing thickness where combined with wood structural panel or lumber sheathing.

1/S08 Minimum Ledger Connection Table
NTS

PLACEMENT OF LAG SCREWS AND THROUGH BOLTS IN LEDGERS AND BAND JOISTS

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (in.)				
	TOP EDGE	BOTTOM EDGE	CUT ENDS	ROW SPACING
LEDGER[a]	2[d]	3/4	2[b]	1 5/8[b]
BAND JOIST[c]	3/4	2	2[b]	1 5/8[b]

a. Lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with detail 3/S04.
b. Maximum of 5 inches.
c. For engineered rim joists, the manufacturer's recommendations shall govern.
d. The minimum distance from bottom row of lag screws or bolts to the top edge of the ledger shall be in accordance with detail 3/S04.

2/S08 Ledger Fasteners Placement **TABLE R507.9.1.3(2)**
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TABLE R507.5
DECK BEAM SPAN LENGTHS[a, b, g] (feet - inches)

SPECIES[c]	SIZE[d]	DECK JOIST SPAN LESS THAN OR EQUAL TO: (feet)						
		6	8	10	12	14	16	18
Douglas fir-larch[e], hem-fir[e], spruce-pine-fir[e], redwood, western cedars, ponderosa pine[f], red pine[f]	3 × 6 or 2 – 2 x 6	5-5	4-8	4-2	3-10	3-6	3-1	2-9
	3 × 8 or 2 – 2 × 8	6-10	5-11	5-4	4-10	4-6	4-1	3-8
	3 × 10 or 2 – 2 × 10	8-4	7-3	6-6	5-11	5-6	5-1	4-8
	3 × 12 or 2 – 2 × 12	9-8	8-5	7-6	6-10	6-4	5-11	5-7
	4 × 6	6-5	5-6	4-11	4-6	4-2	3-11	3-8
	4 × 8	8-5	7-3	6-6	5-11	5-6	5-2	4-10
	4 × 10	9-11	8-7	7-8	7-0	6-6	6-1	5-8
	4 × 12	11-5	9-11	8-10	8-1	7-6	7-0	6-7
	3 – 2 × 6	7-4	6-8	6-0	5-6	5-1	4-9	4-6
	3 – 2 × 8	9-8	8-6	7-7	6-11	6-5	6-0	5-8
	3 – 2 × 10	12-0	10-5	9-4	8-6	7-10	7-4	6-11
	3 – 2 × 12	13-11	12-1	10-9	9-10	9-1	8-6	8-1

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa, 1 pound = 0.454 kg.

a. Ground snow load, live load = 40 psf, dead load = 10 psf, L/Δ = 360 at main span, L/Δ = 180 at cantilever with a 220-pound point load applied at the end.
b. Beams supporting deck joists from one side only.
c. No. 2 grade, wet service factor.
d. Beam depth shall be greater than or equal to depth of joists with a flush beam condition.
e. Includes incising factor.
f. Northern species. Incising factor not included.
g. Beam cantilevers are limited to the adjacent beam's span divided by 4.

1 / S09 Maximum Beam Spans Table — NTS

TABLE R507.4
DECK POST HEIGHT[a]

DECK POST SIZE	MAXIMUM HEIGHT[a, b] (feet-inches)
4 × 4	6-9[c]
4 × 6	8
6 × 6	14
8 × 8	14

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm,
1 pound per square foot = 0.0479 kPa.

a. Measured to the underside of the beam.
b. Based on 40 psf live load.
c. The maximum permitted height is 8 feet for one-ply and two-ply beams. The maximum permitted height for three-ply beams on post cap is 6 feet 9 inches.

2 / S09 Maximum Post Height Table — NTS

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TABLE R507.3.1
MINIMUM FOOTING SIZE FOR DECKS

LIVE OR GROUND SNOW LOAD[b] (psf)	TRIBUTARY AREA (sq. ft.)[e]	LOAD BEARING VALUE OF SOILS [a, c, d] (psf)											
		1500			2000			2500			≥ 3000		
		Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)	Side of a square footing (inches)	Diameter of a round footing (inches)	Thickness (inches)
40	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	14	16	6	12	14	6	12	14	6	12	14	6
	60	17	19	6	15	17	6	13	15	6	12	14	6
	80	20	22	7	17	19	6	15	17	6	14	16	6
	100	22	25	8	19	21	6	17	19	6	15	17	6
	120	24	27	9	21	23	7	19	21	6	17	19	6
	140	26	29	10	22	25	8	20	23	7	18	21	6
	160	28	31	11	24	27	9	21	24	8	20	22	7
50	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	15	17	6	13	15	6	12	14	6	12	14	6
	60	19	21	6	16	18	6	14	16	6	13	15	6
	80	21	24	8	19	21	6	17	19	6	15	17	6
	100	24	27	9	21	23	7	19	21	6	17	19	6
	120	26	30	10	23	26	8	20	23	7	19	21	6
	140	28	32	11	25	28	9	22	25	8	20	23	7
	160	30	34	12	26	30	10	24	27	9	21	24	8
60	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	16	19	6	14	16	6	13	14	6	12	14	6
	60	20	23	7	17	20	6	16	18	6	14	16	6
	80	23	26	9	20	23	7	18	20	6	16	19	6
	100	26	29	10	22	25	8	20	23	7	18	21	6
	120	28	32	11	25	28	9	22	25	8	20	23	7
	140	31	35	12	27	30	10	24	27	9	22	24	8
	160	33	37	13	28	32	11	25	29	10	23	26	9
70	20	12	14	6	12	14	6	12	14	6	12	14	6
	40	18	20	6	15	17	6	14	15	6	12	14	6
	60	21	24	8	19	21	6	17	19	6	15	17	6
	80	25	28	9	21	24	8	19	22	7	18	20	6
	100	28	31	11	24	27	9	21	24	8	20	22	7
	120	30	34	12	26	30	10	24	27	9	21	24	8
	140	33	37	13	28	32	11	25	29	10	23	26	9
	160	35	40	15	30	34	12	27	31	11	25	28	9

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m^2, 1 pound per square foot = 0.0479 kPa.

a. Interpolation permitted, extrapolation not permitted.

b. Based on highest load case: Dead + Live or Dead + Snow.

c. Assumes minimum square footing to be 12 inches x 12 inches x 6 inches for 6 x 6 post.

d. If the support is a brick or CMU pier, the footing shall have a minimum 2-inch projection on all sides.

e. Area, in square feet, of deck surface supported by post and footings.

1 Minimum Footing Sizes Table (Ref 2021 ORSC Section R403)

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TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA[f, g]

COUNTY	GROUND SNOW LOAD, p_g	BASIC DESIGN WIND SPEED, *V* (mph)[b]	SPECIAL WIND REGION BASIC DESIGN WIND SPEED, *V* (mph)[b]	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE			AIR FREEZING INDEX
					Weathering[d]	Frost line depth (inches)	Decay	
Baker	Note a	103	—	Note c	Severe	24	Slight	2000
Benton	Note a	96	—	Note c	Moderate	12	Moderate	≤ 1,500
Clackamas	Note a	98	120	Note c	Moderate	12	Moderate	≤ 1,500
Clatsop	Note a	97	135	Note c	Moderate	12	Moderate	≤ 1,500
Columbia	Note a	97	120	Note c	Moderate	12	Moderate	≤ 1,500
Coos	Note a	95	120[h]	Note c	Moderate	12	Moderate	≤ 1,500
Crook	Note a	98	110	Note c	Severe	18	Slight	2,000
Curry	Note a	95	135	Note c	Moderate	12	Moderate	≤ 1,500
Deschutes	Note a	98	110	Note c	Severe	18	Slight	≤ 1,500
Douglas	Note a	97	120[h]	Note c	Moderate	18	Moderate	≤ 1,500
Gilliam	Note a	100[j]	—	Note c	Severe	24	Moderate	≤ 1,500
Grant	Note a	101	—	Note c	Severe	24	Slight	2,000
Harney	Note a	101	—	Note c	Severe	24	Moderate	2,000
Hood River	Note a	98[i]	—	Note c	Severe	24	Moderate	≤ 1,500
N.45.5°N	—	—	120[i]	—	—	—	—	—
S.45.5°N	—	—	110	—	—	—	—	—
Jackson	Note a	96	—	Note c	Moderate	18[e]	Slight	≤ 1,500
Jefferson	Note a	99	110	Note c	Severe	18	Moderate	≤ 1,500
Josephine	Note a	95	—	Note c	Moderate	18[e]	Moderate	≤ 1,500
Klamath	Note a	98	120	Note c	Severe	24	Moderate	≤ 1,500
Lake	Note a	99	—	Note c	Severe	24	Slight	≤ 1,500
Lane	Note a	98	120[h]	Note c	Moderate	12	Moderate	≤ 1,500
Lincoln	Note a	96	135	Note c	Moderate	12	Moderate	≤ 1,500
Linn	Note a	98	—	Note c	Moderate	12	Moderate	≤ 1,500
Malheur	Note a	102	—	Note c	Severe	24	Slight	≤ 1,500
Marion	Note a	98	—	Note c	Moderate	12	Moderate	≤ 1,500
Morrow	Note a	101[j]	—	Note c	Severe	24	Slight	≤ 1,500
Multnomah	Note a	98[i]	120[i]	Note c	Moderate	18[e]	Moderate	≤ 1,500
Polk	Note a	97	—	Note c	Moderate	12	Moderate	≤ 1,500
Sherman	Note a	99[j]	—	Note c	Severe	24	Slight	≤ 1,500
Tillamook	Note a	96	135	Note c	Moderate	12	Moderate	≤ 1,500
Umatilla	Note a	102[j]	—	Note c	Severe	24	Slight	≤ 1,500
Union	Note a	102	—	Note c	Severe	24	Slight	≤ 1,500
Wallowa	Note a	103	—	Note c	Severe	24	Slight	≤ 1,500
Wasco	Note a	99	110[j]	Note c	Severe	24	Slight	≤ 1,500
Washington	Note a	97	—	Note c	Moderate	12	Moderate	≤ 1,500
Wheeler	Note a	100	—	Note c	Severe	24	Slight	≤ 1,500
Yamhill	Note a	97	—	Note c	Moderate	12	Moderate	≤ 1,500

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

a. The *ground snow load*, p_g, shall be determined in accordance with Section R301.2.3.1.

b. Sites located within a special wind region as determined from Figure R301.2.1 shall use the special wind region basic design *wind speeds* provided herein.

c. The seismic design category shall be determined in accordance with Section R301.2.2.1.

d. A "severe" classification is where weather conditions result in significant snowfall combined with extended periods during which there is little or no natural thawing, causing de-icing salts to be used extensively.

e. The frost line depth at sites below 2,500 feet in Jackson, Josephine and Multnomah Counties is 12 inches.

f. See Sections R301.2.4 and R322 for *flood plain administrator* determinations and *flood hazard* design criteria.

g. See Section R327 for establishment of wildfire hazard mitigation design criteria.

h. The basic design *wind speed*, *V*, for buildings and structures in this region with full exposure (wind Exposure Category D) to Pacific Ocean winds shall 135 mph.

i. The basic design *wind speed*, *V*, for buildings and structures in this region with full exposure (wind Exposure Category D) to Columbia River Gorge winds shall be 135 mph.

j. The basic design *wind speed*, *V*, for buildings and structures in this region with full exposure (wind Exposure Category D) to Columbia River Gorge winds shall be 120 mph.

READY-BUILD PLAN PROGRAM

PRESCRIPTIVE DECK

2021 ORSC

EFFECTIVE
MARCH, 2021

REVISIONS

NO.	DATE

Tables

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A DECKING [R507.7]:

size: ☐2x ☐five-quarter
material: ☐preservative-treated ☐plastic composite ☐naturally durable (e.g. cedar)
orientation: ☐perpendicular to joists ☐diagonal to joists

B JOISTS [R507.6]:

size: ☐2x6 ☐2x8 ☐2x10 ☐2x12
spacing: ☐12 in. ☐16 in. ☐24 in.
span, L_J: ____ft. - ____in.
cantilever: ____ft. - ____in. (L_J/4 MAX)
rim joist: ☐2x6 ☐2x8 ☐2x10 ☐2x12 ☐not applicable

C BEAMS [R507.5]:

plies: ☐1 ☐2 ☐3
size: ☐2x6 ☐2x8 ☐2x10 ☐2x12 ☐4x6 ☐4x8 ☐4x10 ☐4x12 ☐___x___
span, L_B: ____ft. - ____in.
cantilever: ____ft. - ____in. (L_B/4 MAX)

D POSTS [R507.4]:

size: ☐4x4 ☐4x6 ☐6x6 ☐___x___
height: ____ ft. - ____in.

E FOOTINGS [R507.3.1]:

size: ____in. ☐square ☐round
thickness: ____in.

F LEDGER [R507.9.1.3(1)]:

size: ☐2x8 ☐2x10 ☐2x12
fastener: ☐1/2" through-bolt ☐1/2" lag screw ☐code-compliant alternate (attach report)
fastener spacing: ____in. on-center

G LATERAL LOAD CONNECTION [R507.9.2]:

☐(4) 750 pound hold-down tension devices (detail 1/S04)
☐(2) 1,500 pound hold-down tension devices (detail 2/S06)
☐code-compliant alternate (attach report)

H GUARDRAIL POST ATTACHMENT [R301.5]:

☐details 1-3/S05 & 1/S06
☐code-compliant alternate (attach detail).

NOTE: THE PERMIT APPLICANT SHALL PROVIDE THE PROJECT SPECIFIC DESIGN BY CHECKING THE APPLICABLE BOXES AND ENTERING THE APPROPRIATE INFORMATION ABOVE PRIOR TO PERMIT APPLICATION.

1 / S12 Project Specific Information
NTS

READY-BUILD PLAN PROGRAM
PRESCRIPTIVE DECK
2021 ORSC

EFFECTIVE
MARCH, 2021

REVISIONS

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Project Specific Information

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