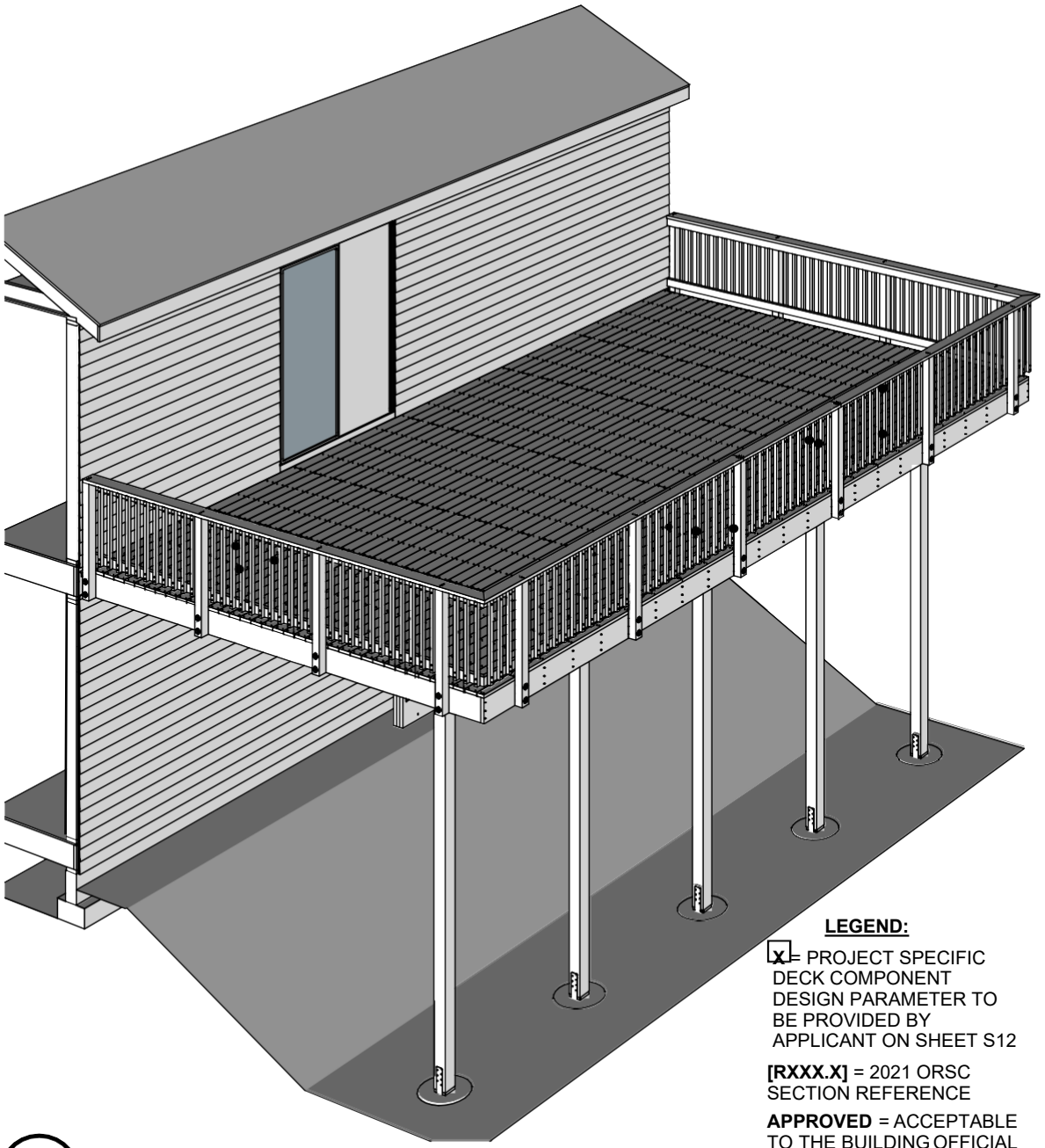

1 General Notes
S01 NTS

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_0, D_1, 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 **S13** 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].

READY-BUILD PLAN PROGRAM

PRESCRIPTIVE DECK

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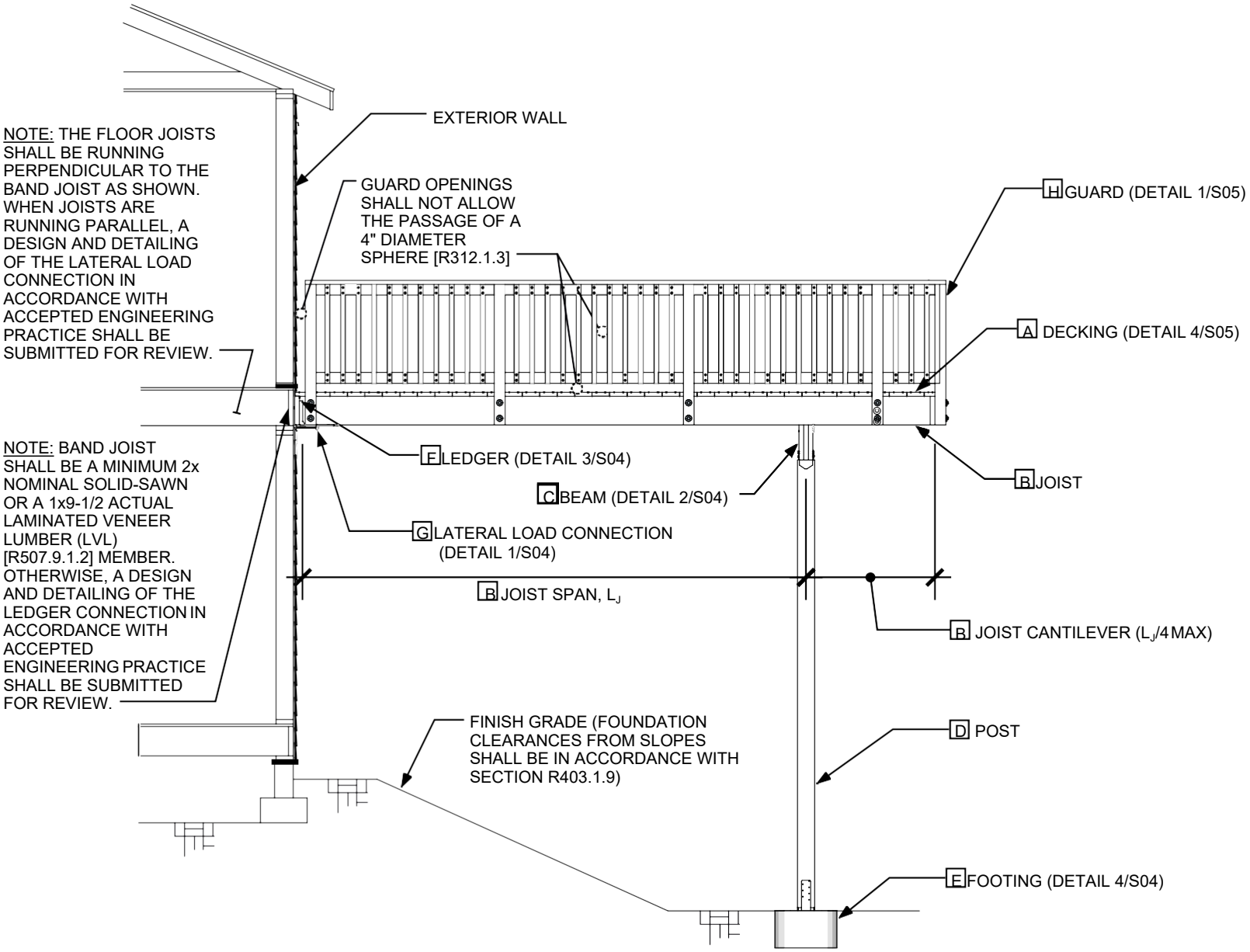
General Notes

S01



1 / S02 Side Elevation
NTS

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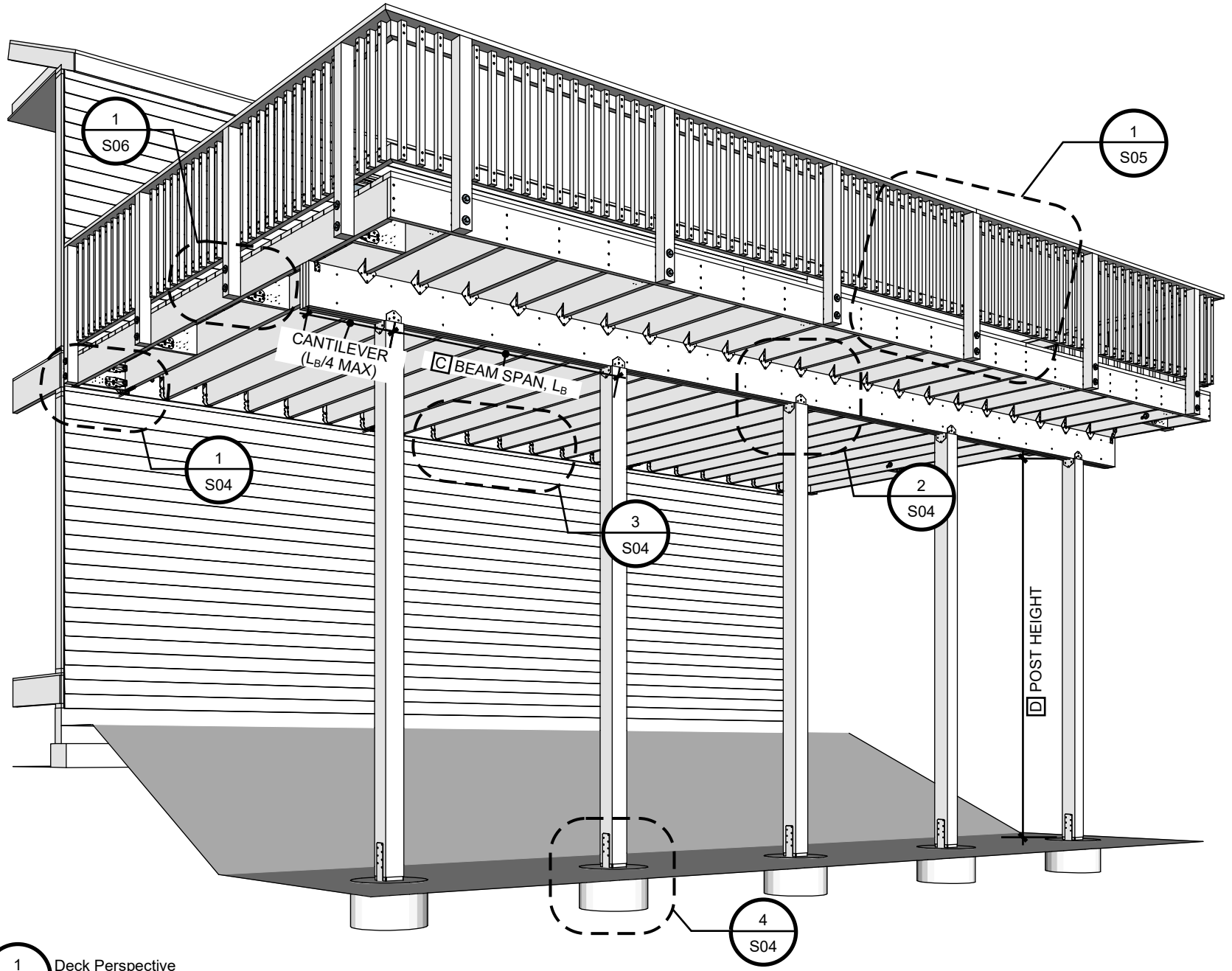
Elevation

S02



1 / S03 Deck Perspective
NTS

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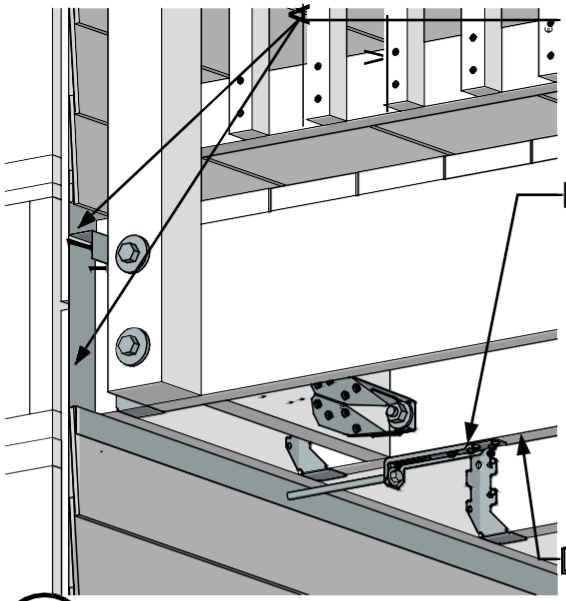
Perspective

S03



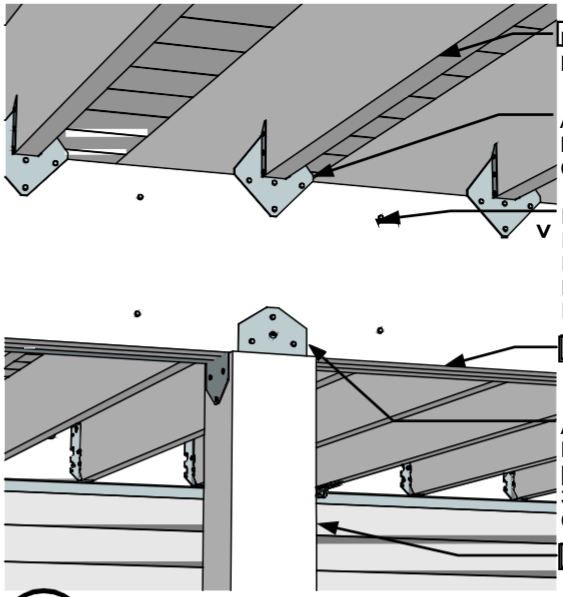
CORROSION-RESISTANT FLASHING INSTALLED IN SHINGLE-FASHION FOR WATER TIGHTNESS WHERE DECK MEETS EXTERIOR WALL [R703.4]

G HOLD-DOWN DEVICE WITH MIN 750 LB. CAPACITY AT 4 LOCATIONS, EVENLY DISTRIBUTED ALONG DECK AND ONE WITHIN 24" OF EACH END OF THE LEDGER. DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS [R507.9.2]. SEE DETAIL 2/S06 FOR ALTERNATE CONNECTION

B DECK JOIST PER DETAIL 2/S07

1 S04 Lateral load connection

NTS



B DECK JOIST PER DETAIL 1/S07, TYP

APPROVED JOIST TO BEAM MECHANICAL CONNECTOR [R507.6.1]

BEAM PLIES SHALL BE FASTENED WITH (2) ROWS OF 10D NAILS MIN AT 16" O.C. ALONG EACH EDGE [R507.5]

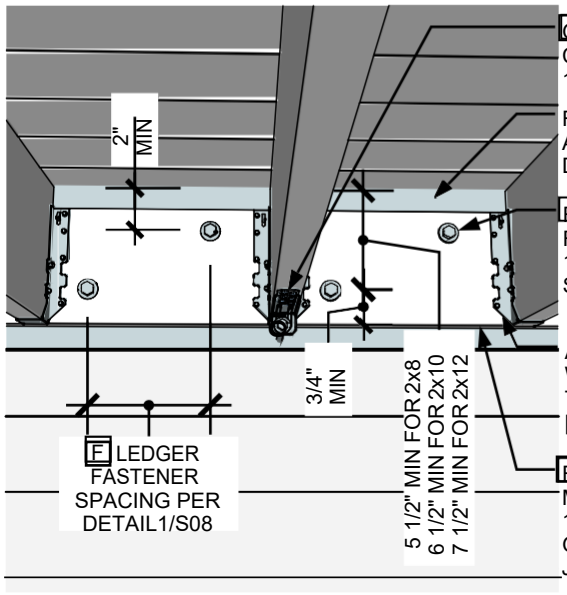
C DECK BEAM PER DETAIL 1/S09

APPROVED BEAM TO POST CONNECTOR [R507.5.2]. SEE DETAIL 3/S06 FOR ALTERNATE CONNECTION

D DECK POST PER DETAIL 2/S09

2 S04 Joist to beam and beam to post connection

NTS



G LATERAL LOAD CONNECTION PER DETAIL 1/S04 OR 2/S06

FLASHING BETWEEN DECK AND EXTERIOR WALL PER DETAIL 1/S04

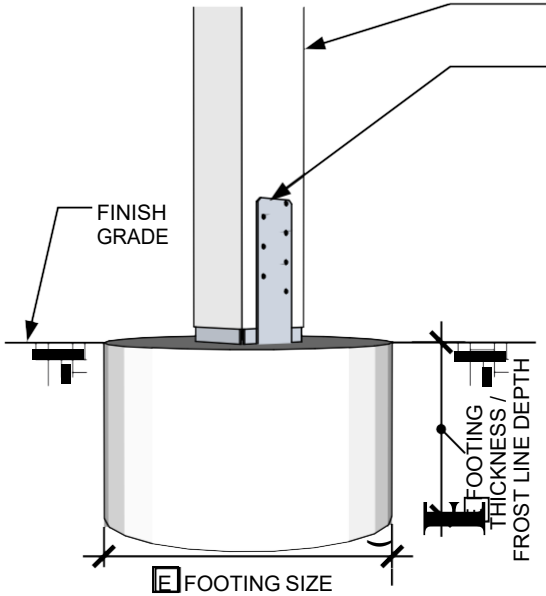
F DECK LEDGER FASTENING PER DETAILS 1/S08 AND 2/S08, STAGGERED AS SHOWN

APPROVED JOIST HANGER WITH DEPTH NOT LESS THAN 60% OF JOIST DEPTH [R507.6.1 AND R507.6.2]

F DECK LEDGER (2x8 MINIMUM) PER DETAIL 1/S12 EQUAL TO OR GREATER THAN THE DECK JOIST DEPTH

3 S04 Ledger connection

NTS



D DECK POST PER DETAIL 2/S09

APPROVED POST TO FOOTING CONNECTOR INSTALLED IN ACCORDANCE WITH MFR'S INSTRUCTIONS [R507.4.1]

NOTE: SEE DETAIL 4/S06 FOR ALTERNATE POST TO FOOTING CONNECTIONS

4 S04 Post to footing connection

NTS

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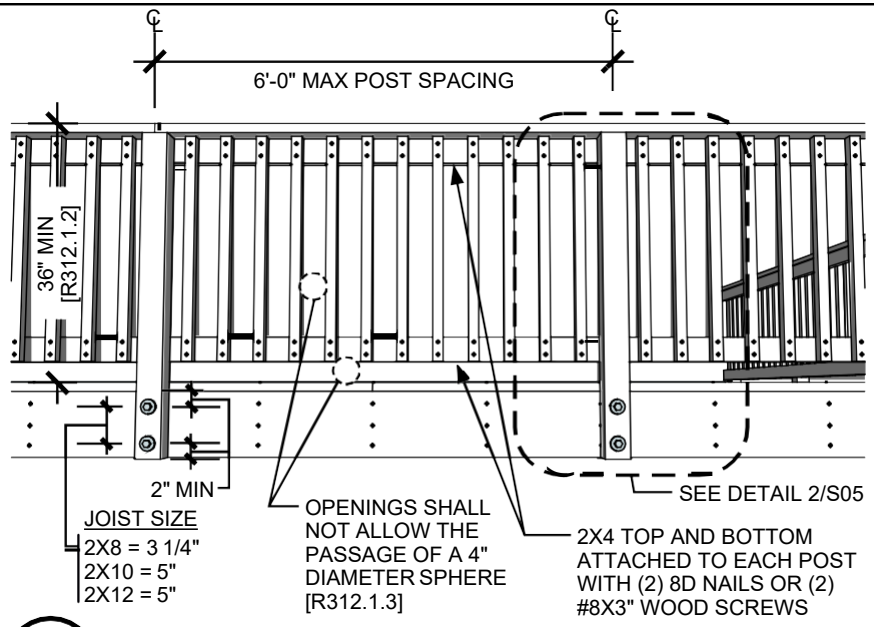
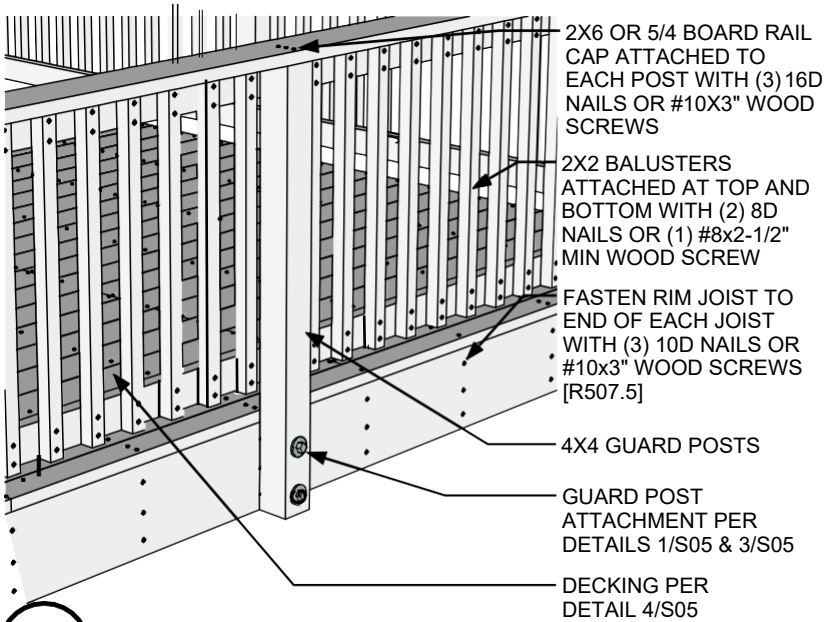
Details

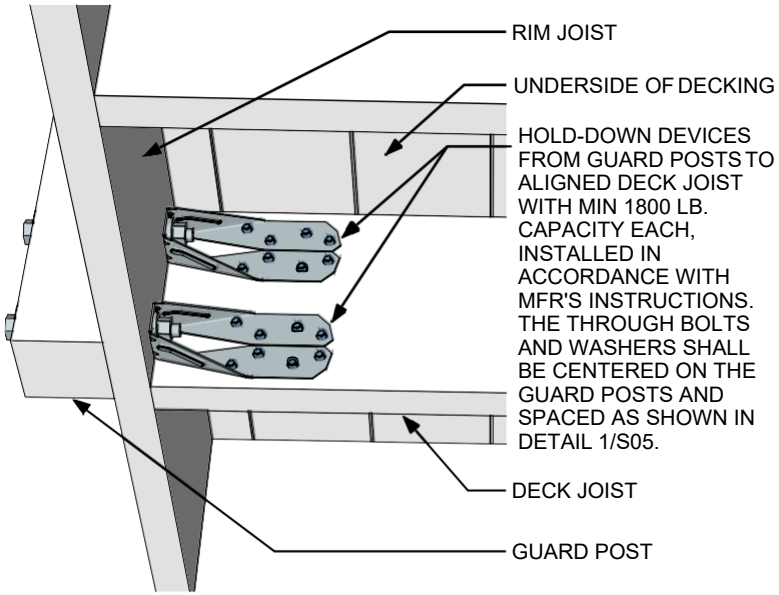
S04



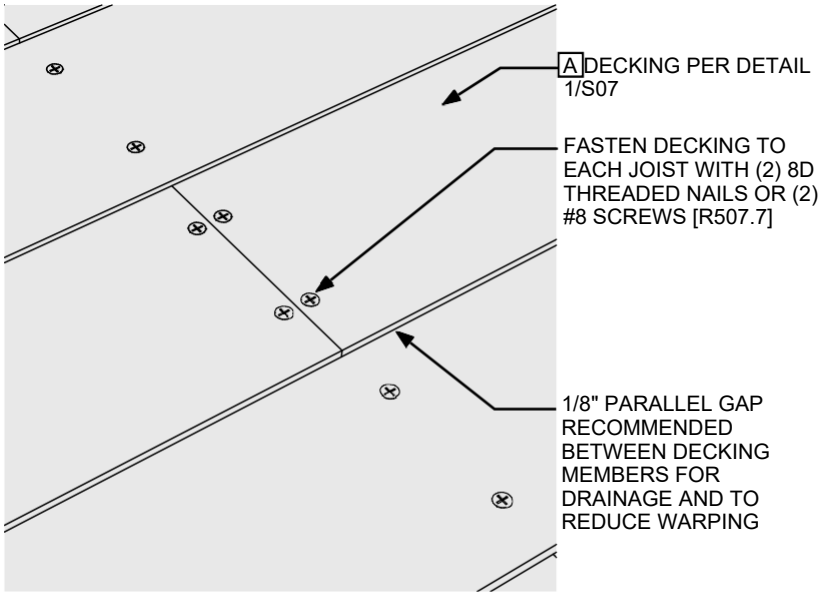
1 S05 Deck guard
NTS



2 S05 Deck guard
NTS



3 S05 Guard post to joist connection
NTS



4 S05 Decking connection
NTS

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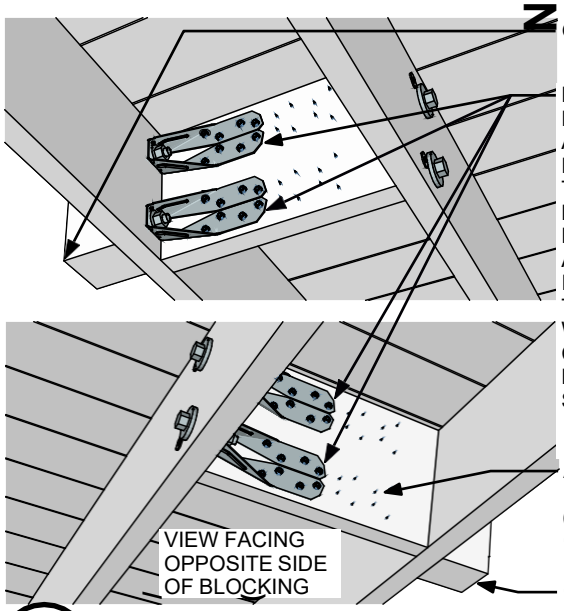
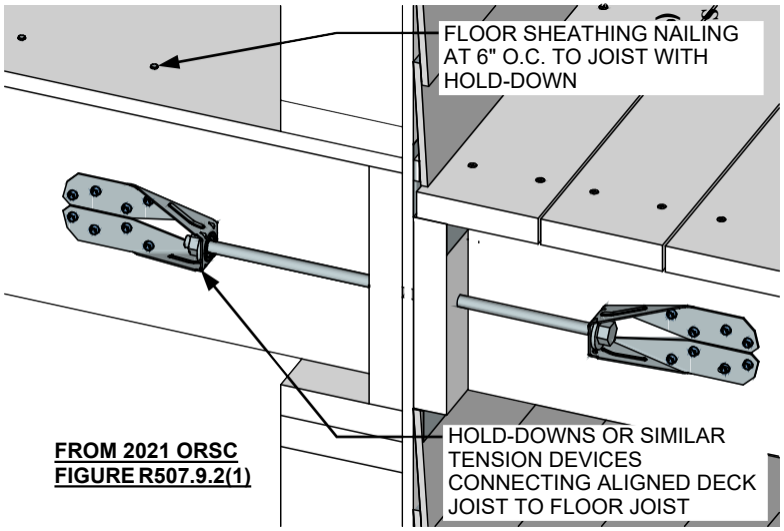
Details

S05



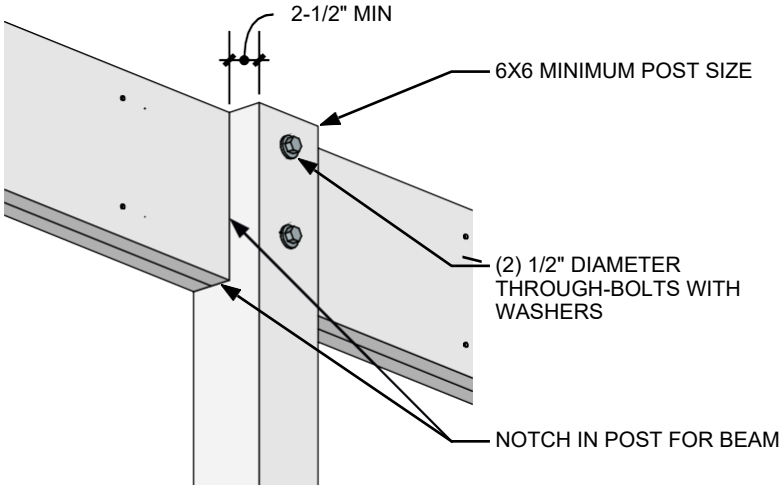
1 S06 Guard post to blocking connection
NTS



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.

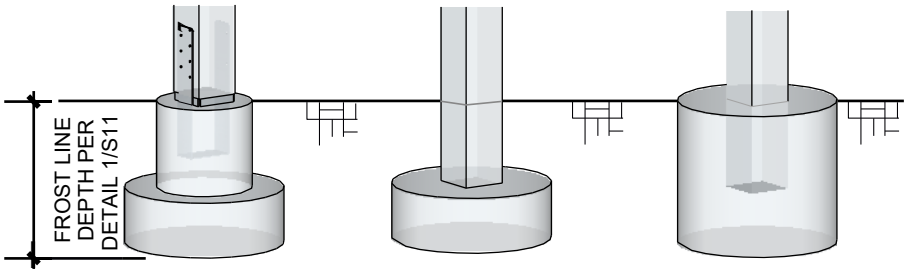
2 S06 Alternate deck attachment for lateral loads
NTS



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



FROM 2021 ORSC FIGURE R507.3

NOTE: POSTS SHALL BE RESTRAINED TO PREVENT LATERAL DISPLACEMENT AT THE BOTTOM OF SUPPORT. SUCH RESTRAINT SHALL BE PROVIDED BY MANUFACTURED CONNECTORS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR A MINIMUM POST EMBEDMENT OF 12 INCHES IN SURROUNDING SOILS OR CONCRETE.

4 S06 Alternate post to footing connections
NTS

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S06

FROM 2021 ORSC TABLE R507.7

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]	Per decking manufacturer	Per decking manufacturer

a. Maximum angle of 45 degrees from perpendicular for wood deck boards.
b. Plastic composite deck materials shall comply with the requirements of ASTM D7032 and Section R507.2.2

1 S07 Maximum Joist Spacing Table (from 2021 ORSC Table R507.7)
NTS

JOIST SPANS, L_J (ft.-in.)

SPECIES[a]	SIZE	SPACING OF DECK JOISTS WITH NO CANTILEVER[b] (in.)			SPACING OF DECK JOISTS WITH CANTILEVER[b] (in.)		
		12	16	24	12	16	24
Douglas Fir-Larch, Hem-Fir, Spruce-Pine-Fir	2x6	9-6	8-8	7-2	1-2	1-3	1-5
	2x8	12-6	11-1	9-1	1-11	2-1	2-3
	2x10	15-8	13-7	11-1	3-1	3-5	2-9
	2x12	18-0	15-9	12-10	4-6	3-11	3-3
Redwood, Western Cedars, Ponderosa Pine, Red Pine	2x6	8-10	8-0	7-0	1-0	1-1	1-2
	2x8	11-8	10-7	8-8	1-8	1-10	2-0
	2x10	14-11	13-0	10-7	2-8	2-10	2-8
	2x12	17-5	15-1	12-4	3-10	3-9	3-1

a. No. 2 grade.
b. Cantilevered spans not exceeding the nominal depth of the joist are considered "with no cantilever" for this table.

2 S07 Maximum Joist Spans Table From (from 2021 ORSC Table R507.6)
NTS

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S07

LEDGER CONNECTION TO BAND JOIST[a,b]

CONNECTION DETAILS	JOIST SPAN (ft.), L_J						
	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 (in.)						
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 through bolt with 1/2-inch maximum sheathing[d]	36	36	34	29	24	21	19
1/2-inch diameter through bolt with 1-inch maximum sheathing[e]	36	36	29	24	21	18	16

a. Ledgers shall be flashed with approved corrosion-resistant flashing applied shingle-fashion in a manner to prevent entry of water into the wall cavity or penetration of water to the building structural framing components in accordance with Section R703.4.
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 (from 2021 ORSC Table R507.9.1.3(1))
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 inches[d]	3/4 Inch	2 inches[b]	1 5/8 inches[b]
BAND JOIST[c]	3/4 inch	2 inches	2 inches[b]	1 5/8 inches[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 (from 2021 ORSC Table R507.9.1.3(2))
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S08

BEAM SPANS[a,d], L_B (ft.-in.)

SPECIES[b]	SIZE[c]	DECK JOIST SPAN, L_J, (ft.)						
		≤ 6	≤ 8	≤ 10	≤ 12	≤ 14	≤ 16	≤ 18
Douglas Fir-Larch, Hem-Fir, Spruce-Pine-Fir, Redwood, Western Cedars, Ponderosa Pine, Red Pine	3x6 or 2-2x6	5-5	4-8	4-2	3-10	3-6	3-1	2-9
	3x8 or 2-2x8	6-10	5-11	5-4	4-10	4-6	4-1	3-8
	3x10 or 2-2x10	8-4	7-3	6-6	5-11	5-6	5-1	4-8
	3x12 or 2-2x12	9-8	8-5	7-6	6-10	6-4	5-11	5-7
	4x6	6-5	5-6	4-11	4-6	4-2	3-11	3-8
	4x8	8-5	7-3	6-6	5-11	5-6	5-2	4-10
	4x10	9-11	8-7	7-8	7-0	6-6	6-1	5-8
	4x12	11-5	9-11	8-10	8-1	7-6	7-0	6-7
	3-2x6	7-4	6-8	6-0	5-6	5-1	4-9	4-6
	3-2x8	9-8	8-6	7-7	6-11	6-5	6-0	5-8
	3-2x10	12-0	10-5	9-4	8-6	7-10	7-4	6-11
	3-2x12	13-11	12-1	10-9	9-10	9-1	8-6	8-1

a. Beams supporting deck joists from one side only (with optional joist cantilever).
b. No. 2 grade.
c. Beam depth shall be greater than or equal to depth of joists with a flush beam condition.
d. Beam cantilevers are limited to the adjacent beam's span divided by 4.

1 / S09 Maximum Beam Spans Table (from 2021 ORSC Table R507.5)
NTS

POST HEIGHT

SPECIES[b]	DECK POST SIZE	HEIGHT[a] (ft.)
Douglas Fir-Larch, Hem-Fir, Spruce-Pine-Fir, Redwood, Western Cedars, Ponderosa Pine, Red Pine	4x4	6-9[c]
	4x6	8
	6x6 and 8x8	14

a. Measured to the underside of the beam.
b. No. 2 grade.
c. The maximum permitted height is 8 feet for one-ply and two-ply beams. The maximum permitted height for three-ply beams on a post cap is 6 feet 9 inches.

2 / S09 Maximum Post Height Table (from 2021 ORSC Table R507.4)
NTS

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S09

FOOTING DIMENSIONS[a]

BEAM SPAN (ft), L_B	JOIST SPAN (ft.), L_J	ROUND FOOTING DIAMETER (in.)	SQUARE FOOTING WIDTH (in.)	MINIMUM FOOTING THICKNESS[b] (in.)
≤ 6	≤ 10	18	16	8
	≤ 14	21	19	8
	≤ 18	24	21	10
≤ 8	≤ 10	20	18	8
	≤ 14	24	22	10
	≤ 18	27	24	11
≤ 10	≤ 10	23	20	9
	≤ 14	27	24	11
≤ 12	≤ 10	25	22	10
≤ 14	≤ 10	27	24	11

a. Assumes 1,500 psf soil bearing capacity per Section R401.4.1.
b. In accordance with Section R403.1.4, footings shall be placed not less than 12 inches below the finished grade on undisturbed ground surface and shall extend below the frost line depth specified in Table R301.2(1). Coordinate footing thickness with post base manufacturer installation instructions.

1/S10 Minimum Footing Sizes Table (Ref 2021 ORSC Section R403)
NTS

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S10

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

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Table 301.2(1) Continued

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.

R301.2.3.1 Ground snow load determination. Site-specific ground snow loads, P_g, shall be those set forth in the online lookup tool at Snowload.seao.org/lookup.html. Where the site elevation is higher than the modeled elevation reported by the online lookup tool, the reported ground snow load values shall be adjusted by adding the specified loads from Table R301.2.3.1. The minimum ground snow load, P_g, for prescriptive design is 36. The minimum roof snow load for engineered design is 25 psf.

EFFECTIVE
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A DECKING [R507.7]:
size: ☐2x ☐five-quarter (5/4 deck material)
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]:
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 PRIORTO PERMIT APPLICATION.

1 / S12 Project Specific Information
NTS

READY-BUILD PLAN PROGRAM
PRESCRIPTIVE DECK
2021 ORSC

EFFECTIVE
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REVISIONS

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Project Specific Information

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