GENERAL NOTES

SCOPE

SINGLE-LEVEL EXTERIOR WOOD-FRAMED DECKS ATTACHED TO AN EXTERIOR WALL OF A BUILDING REGULATED BY THE OREGON RESIDENTIAL SPECIALTY CODE.

PERMIT APPLICATION

THE PERMIT APPLICANT SHALL REFERENCE THE PRESCRIBED DETAILS AND TABLES CONTAINED HEREIN TO DEVELOP AND RECORD THEIR PROJECT SPECIFIC DECK DESIGN PARAMETERS (X) ON SHEET S28 PRIOR TO PERMIT APPLICATION. THE PERMIT APPLICANT IS RESPONSIBLE FOR PRODUCING AND ATTACHING A SITE PLAN IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S SUBMISSION REQUIREMENTS. EXTERIOR DECKS WHERE THE WALKING SURFACE IS NOT MORE THAN 30 INCHES ABOVE ADJACENT GRADE MEASURED AT ANY POINT WITHIN 3 FEET HORIZONTALLY OF THE WALKING SURFACE ARE EXEMPT FROM PERMIT [R105.2].

APPLICABLE BUILDING CODE

2023 OREGON RESIDENTIAL SPECIALTY CODE (ORSC).

LIMITATIONS OF USE

USE OF AND ANY MODIFICATIONS TO THIS PERMIT-READY PLAN IS SUBJECT TO REVIEW AND APPROVAL BY THE LOCAL MUNICIPALITY.

- SINGLE-SPAN DECK JOISTS WITH OR WITHOUT A CANTILEVER
- BASIC DESIGN WIND SPEED: ≤ 120 MPH
- WIND EXPOSURE CATEGORY: B, C, OR D
- SEISMIC DESIGN CATEGORY: B, C, D₀, D₁, D₂, OR E RECLASSIFIED TO D₂
- DECK DEAD LOAD: ≤ 10 PSF
- DECK LIVE LOAD: ≤ 40 PSF
- GROUND SNOW LOAD: ≤ 70 PSF
- NOT SUPPORTING FINISH MATERIALS, SUCH AS CONCRETE, TILE, ETC., ON TOP OF THE DECKING.
- NOT SUPPORTING LARGE CONCENTRATED LOADS SUCH AS HOT TUBS, ETC.
- WHERE PROPOSED CONSTRUCTION IS IN A FLOOD HAZARD AREA, AS ESTABLISHED BY THE LOCAL FLOODPLAIN ADMINISTRATOR, THE PERMIT APPLICANT IS RESPONSIBLE FOR MODIFYING THESE PLANS AS NECESSARY FOR COMPLIANCE WITH ORSC SECTIONS R301.2.4 AND R322.
- WHERE PROPOSED CONSTRUCTION IS IN AN AREA SUBJECT TO WILDFIRE HAZARD MITIGATION, THE PERMIT APPLICANT IS RESPONSIBLE FOR MODIFYING THESE PLANS AS NECESSARY FOR COMPLIANCE WITH ORSC SECTION R327.

LEGENL

X = PROJECT SPECIFIC DECK COMPONENT DESIGN PARAMETER TO BE PROVIDED BY THE PERMIT APPLICANT ON SHEET \$28

APPROVED = ACCEPTABLE TO THE BUILDING OFFICIAL [R202]

ORSC = OREGON RESIDENTIAL SPECIALTY CODE

IR###.#1 = ORSC SECTION REFERENCE

DJSL = DECK JOIST SPAN LENGTH (SEE SHEETS S2 AND S28)

DJCL = DECK JOIST CANTILEVER LENGTH (SEE SHEETS S2 AND S28)

DBSL = DECK BEAM SPAN LENGTH (SEE SHEETS S3 AND S28)

DBCL = DECK BEAM CANTILEVER LENGTH (SEE SHEETS S3 AND S28)

CSSL = CUT STRINGER SPAN LENGTH

SSSL = SOLID STRINGER SPAN LENGTH

MIN = MINIMUM

MAX = MAXIMUM

TYP = TYPICAL
MFR = MANUFACTURER

#/S# = DETAIL NUMBER ON SHEET NUMBER

FOUNDATION

FOOTINGS SHALL BEAR ON NATIVE, INORGANIC, UNDISTURBED SOIL BELOW EXISTING GRADE. CONCRETE STRENGTH SHALL BE 3,000 PSI MIN IN MODERATE WEATHERING REGIONS AND 3,500 PSI MIN IN SEVERE WEATHERING REGIONS (SEE SHEET S28) [R301.2 AND R402.2].

WOOD FRAMING, FASTENERS AND CONNECTORS

ALL WOOD SHALL BE IDENTIFIED BY A GRADE MARK OF AN ACCREDITED LUMBER GRADING OR INSPECTION AGENCY AND BE NATURALLY DURABLE OR PRESSURE-PRESERVATIVE-TREATED UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL (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). ANY FIELD CUTS OF PRESSURE-PRESERVATIVE-TREATED WOOD SHALL BE TREATED WITH COPPER NAPHTHENATE (2% COPPER) [R317.1.1]. ALL FASTENERS, ANCHORS, AND CONNECTORS SHALL BE EXTERIOR RATED AND APPROVED FOR STRUCTURAL USE (SEE DETAIL 2/S16 FOR SPECIFICATIONS). MANUFACTURER'S (MFR'S) INSTRUCTIONS FOR APPROVED PROPRIETARY PRODUCTS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION [R106.1.2].

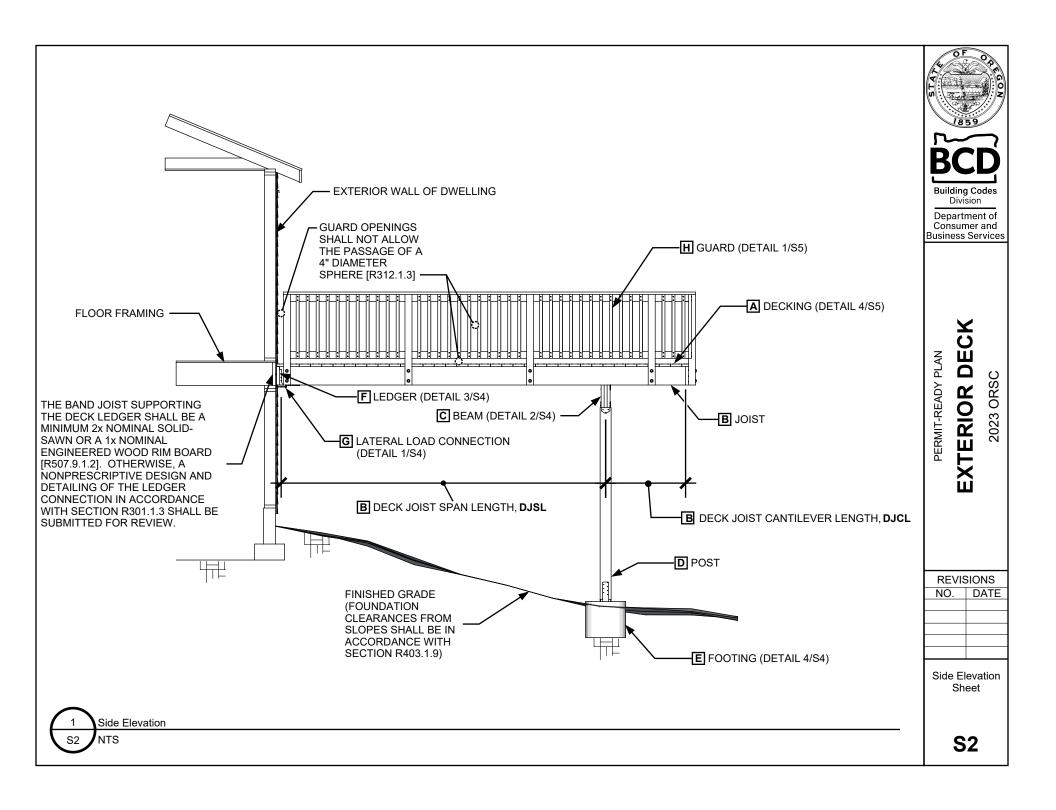


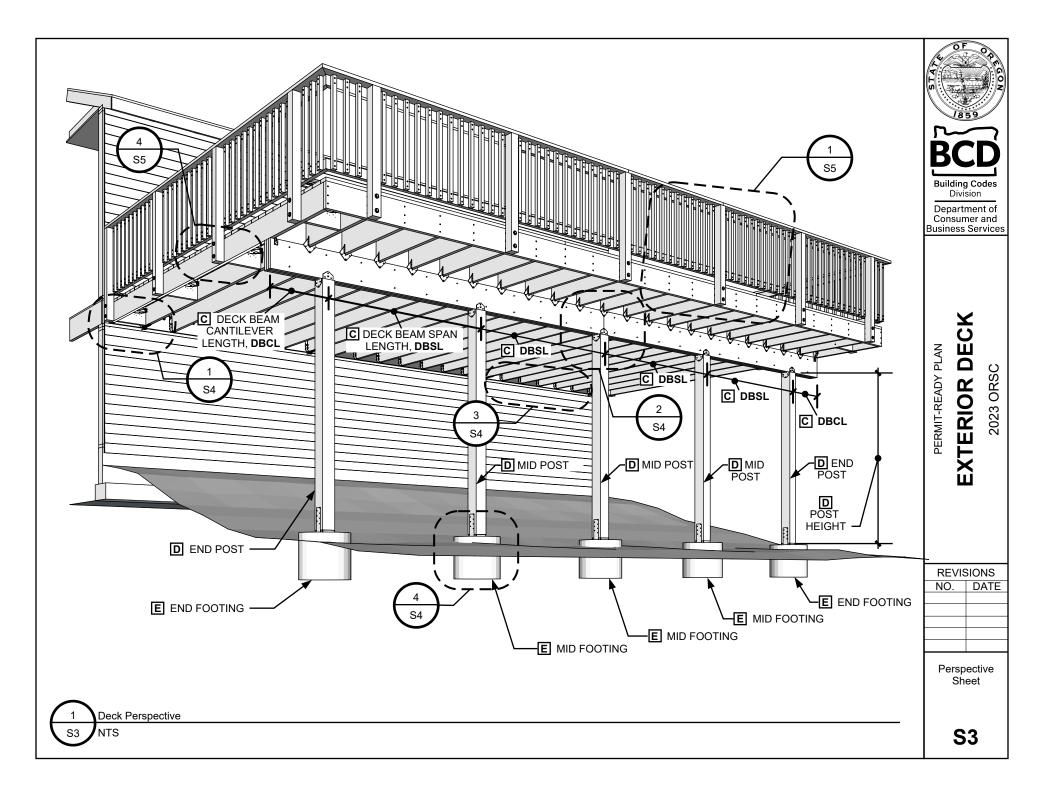
Department of Consumer and Business Services

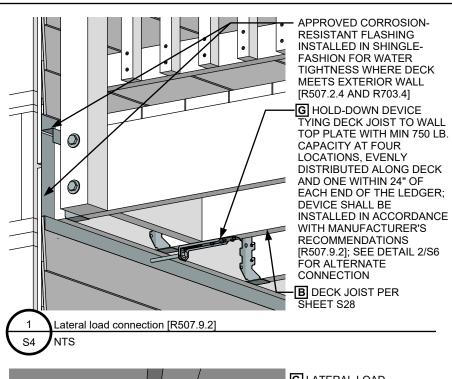
PERMIT-READY PLAN **EXTERIOR DECK**

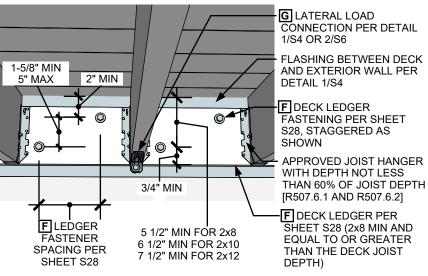
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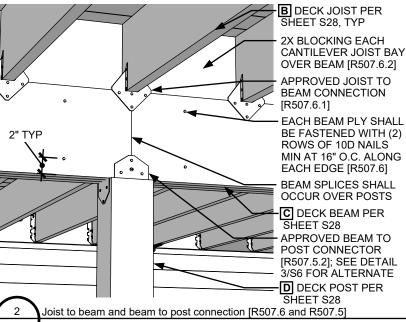


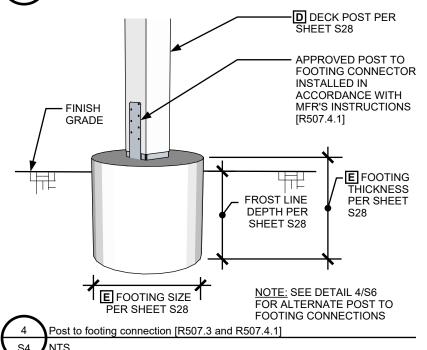


NOTE: LEDGER FASTENERS SHALL BE PLACED A MINIMUM OF TWO INCHES FROM ENDS OF LEDGER MEMBERS

edger connection [R507.9.1.1 and R507.9.1.3]

NTS





Building Codes Division

Department of Consumer and Business Services

EXTERIOR DE PERMIT-READY PLAN

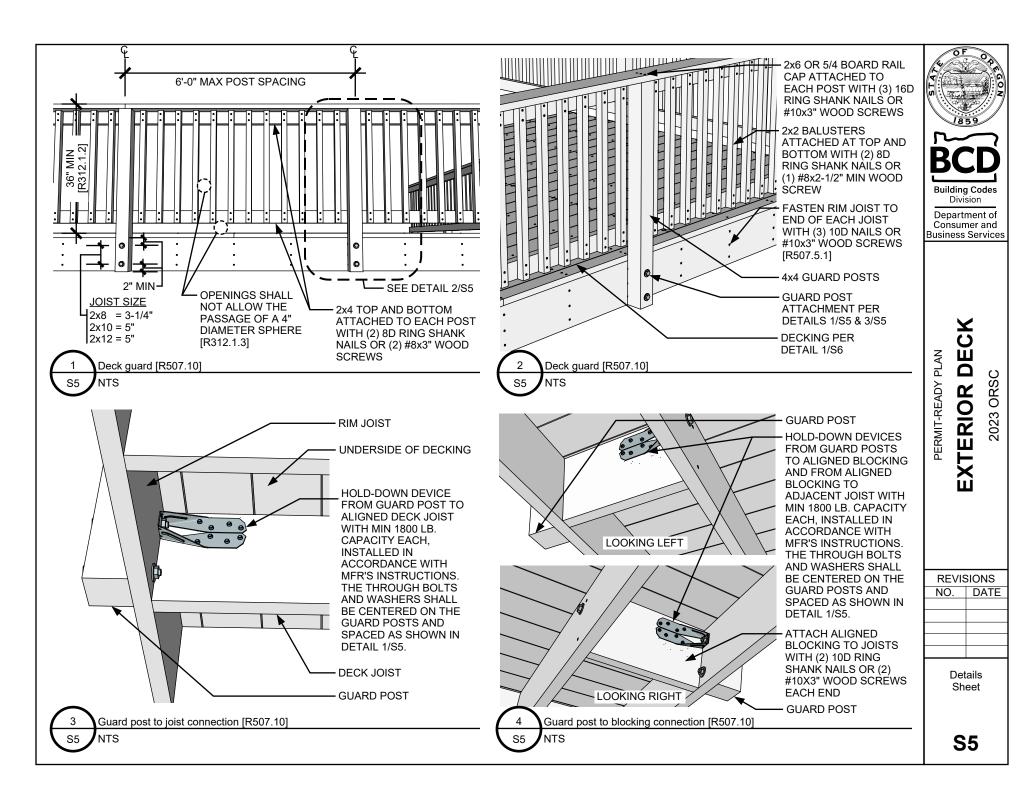
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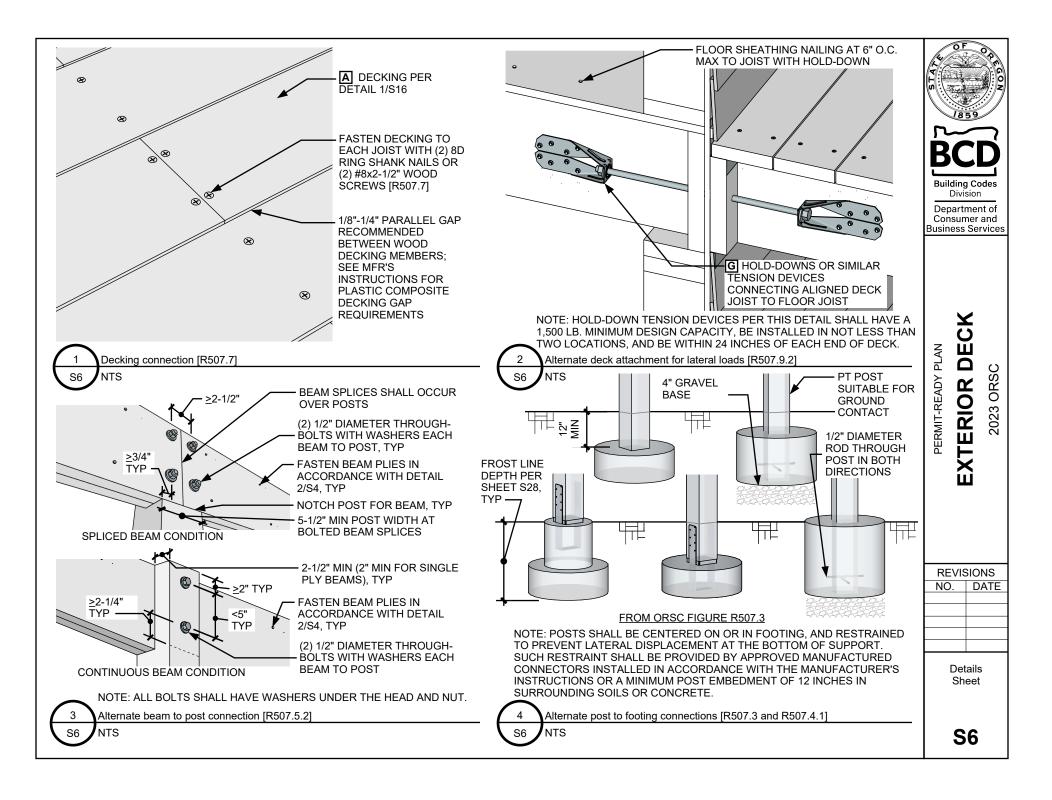
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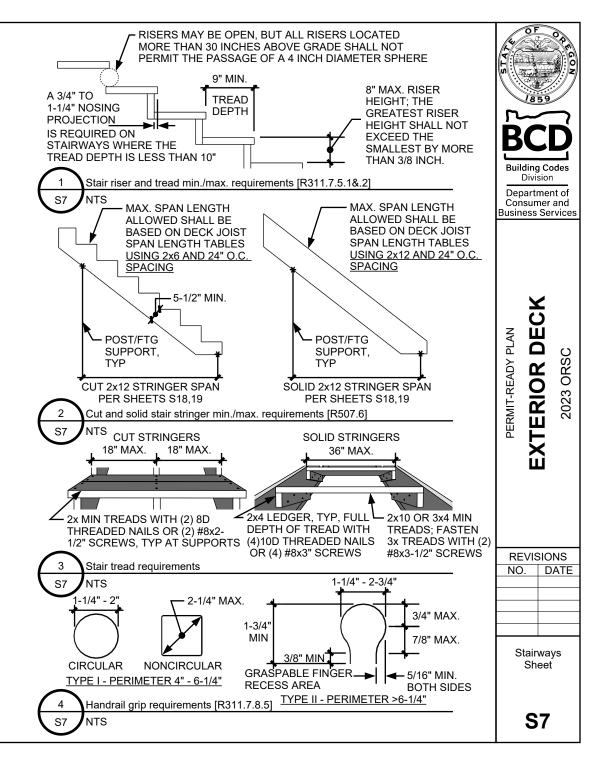


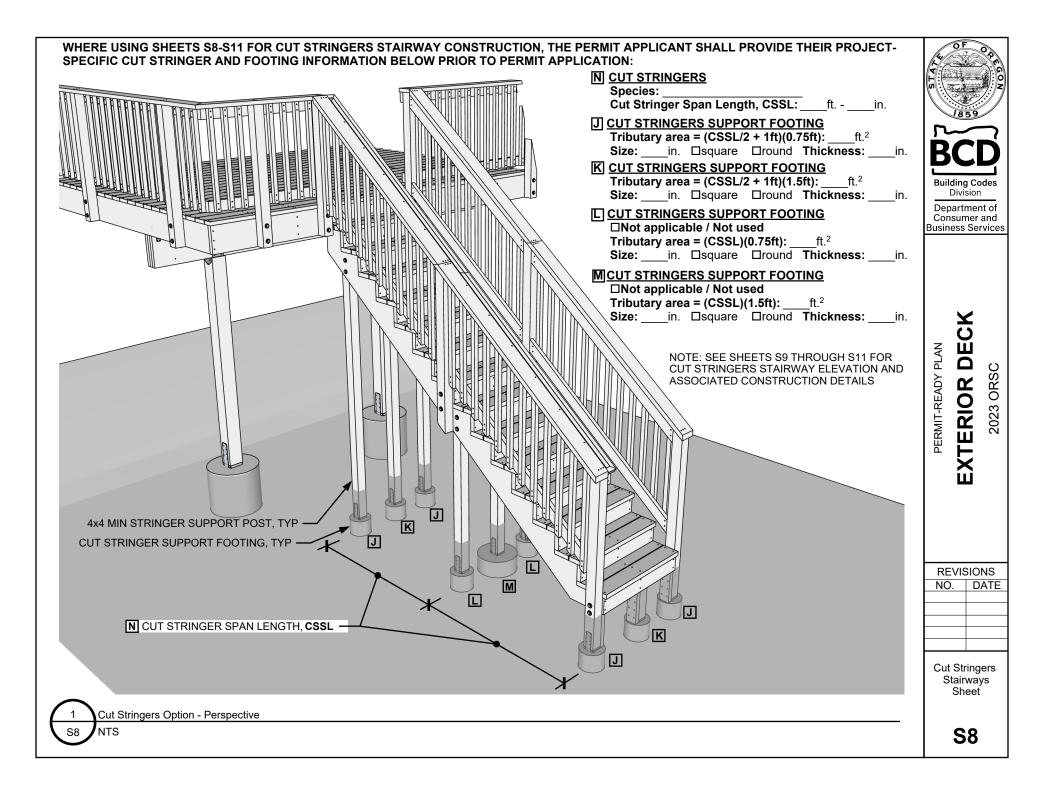
I STAIRWAY REQUIREMENTS [R311.7]

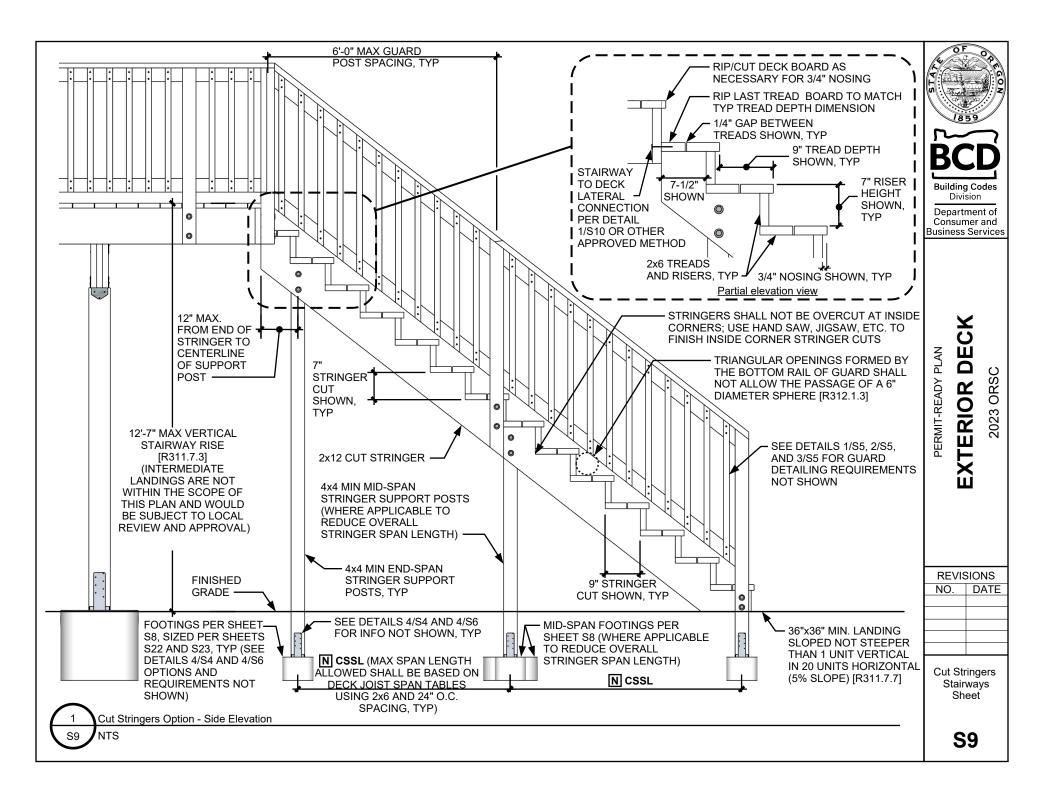
ALL STAIR ELEMENTS SHALL MEET THE REQUIREMENTS IN THIS PLAN EXCEPT WHERE OTHERWISE APPROVED BY THE LOCAL BUILDING OFFICIAL. ALL STAIRWAYS CONSTRUCTED IN ACCORDANCE WITH THIS PLAN SHALL BE SELF-SUPPORTING TO RESIST GRAVITY LOADS WITH THE USE OF POSTS AND FOOTINGS, AND POSITIVELY ANCHORED TO THE DECK TO RESIST LATERAL FORCES (ATTACHMENT SHALL NOT BE ACCOMPLISHED BY USE OF TOENAILS OR NAILS SUBJECT TO WITHDRAWAL) [R311.5]. ALL STRINGERS, CUT OR SOLID, SHALL BE A MINIMUM OF 2x12. STAIR STRINGERS SHALL NOT SPAN MORE THAN THE DIMENSIONS SHOWN ON THIS SHEET. IF THE STRINGER SPAN EXCEEDS THESE DIMENSIONS. THEN A 4x4 POST MAY BE PROVIDED TO SUPPORT THE STRINGER AND SHORTEN ITS SPAN LENGTH. THE 4x4 POST SHALL BE NOTCHED AND BOLTED TO THE STRINGER WITH (2) 1/2" DIAMETER THROUGH BOLTS WITH WASHERS. THE POST SHALL BE CENTERED ON A FOOTING THAT IS SIZED IN ACCORDANCE WITH THE TABLES ON SHEETS S22 AND S23. STAIRWAYS SHALL BE A MINIMUM OF 36 INCHES IN CLEAR WIDTH AT ALL POINTS ABOVE THE HANDRAIL HEIGHT; THE CLEAR WIDTH OF STAIRWAYS AT AND BELOW THE ACTUAL HANDRAIL HEIGHT SHALL NOT BE LESS THAN 31-1/2 INCHES WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 27 INCHES WHERE A HANDRAIL IS INSTALL ON BOTH SIDES [R311.7.1]. A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE GREATER THAN 12 FEET 7 INCHES BETWEEN THE TOP OF DECK AND FINISH GRADE (INTERMEDIATE LANDINGS ARE BEYOND THE SCOPE OF THIS PLAN AND WOULD REQUIRE LOCAL APPROVAL) IR311.7.31. LANDINGS HAVING A MINIMUM DIMENSION OF 36 INCHES IN THE DIRECTION OF TRAVEL AND WIDTH PERPENDICULAR TO TRAVEL NOT LESS THAN THE WIDTH OF THE FLIGHT SERVED ARE REQUIRED AT THE TOP AND BOTTOM OF THE STAIRWAY [R311.7.6]. THE TOP LANDING OF STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE [R303.8], APPROVED GUARDS COMPLYING WITH SECTION R301.5 AND R312 SHALL BE PROVIDED ON OPEN SIDES OF STAIRWAYS HAVING A TOTAL RISE OF 30 INCHES OR MORE [R312.1.1].

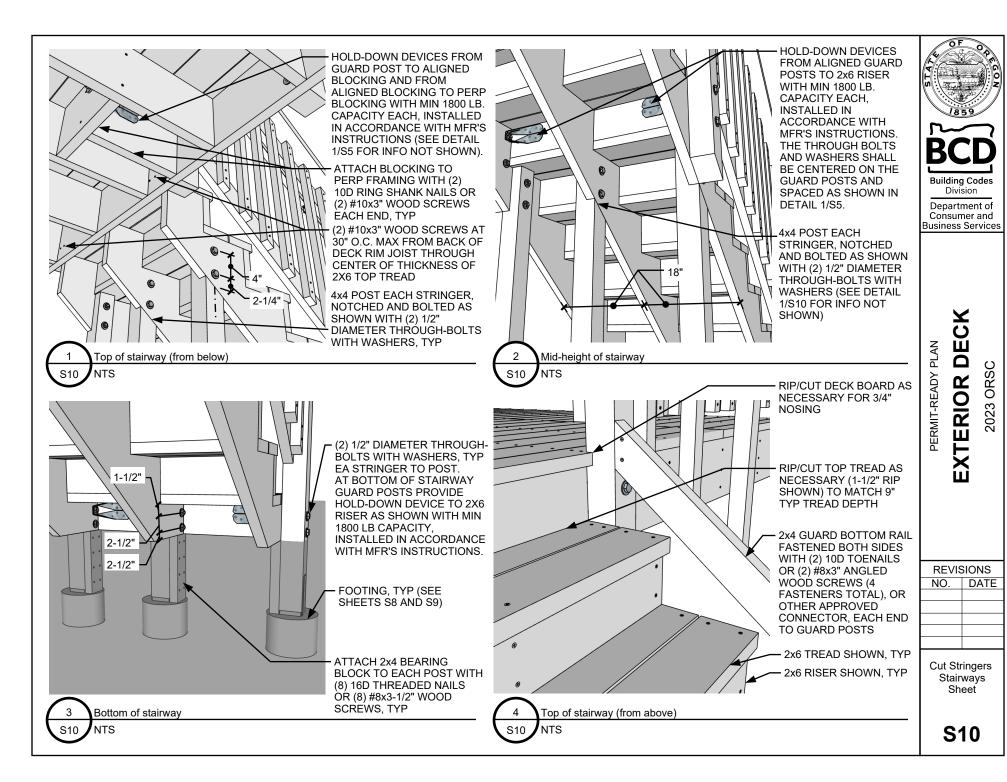
STAIRWAY HANDRAIL REQUIREMENTS [R311.7.8]

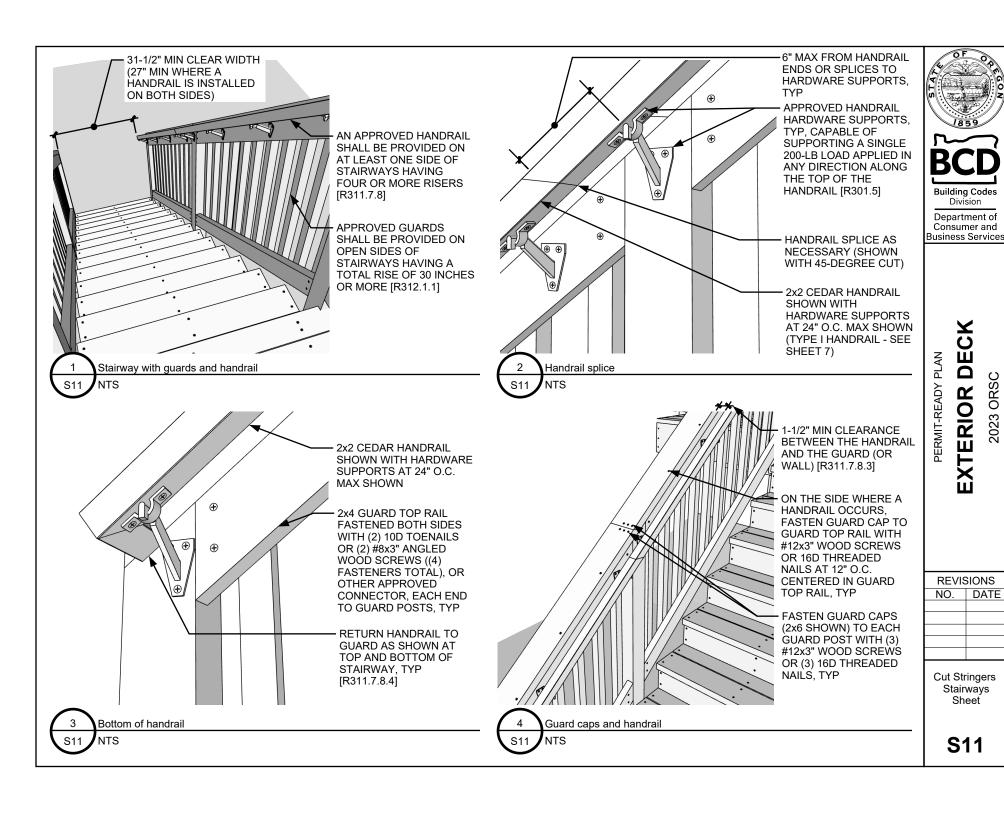
ALL STAIRWAYS WITH 4 OR MORE RISERS SHALL HAVE A HANDRAIL ON AT LEAST ONE SIDE [R311.7.8]. THE HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, SHALL NOT BE LESS THAN 30 INCHES (OR 34 INCHES WHERE INCORPORATED AS THE TOP OF A GUARD) AND NOT MORE THAN 38 INCHES IR311.7.8.11. HANDRAILS SHALL NOT PROJECT MORE THAN 4-1/2 INCHES ON EITHER SIDE OF THE STAIRWAY [R311.7.8.2]. HANDRAILS ADJACENT TO A WALL OR GUARD SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 INCHES BETWEEN THE WALL OR GUARD AND THE HANDRAIL [R311.7.8.3]. A HANDRAIL END SHALL BE RETURNED TO ITSELF OR TOWARD A WALL, GUARD OR WALKING SURFACE. OR SHALL TERMINATE TO A POST. HANDRAILS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE STAIRWAY, FROM A POINT DIRECTLY ABOVE THE TOP RISER TO A POINT DIRECTLY ABOVE THE LOWEST RISER. EXCEPT THAT A HANDRAIL RETURN OR STARTING EASING IS ALLOWED TO BEGIN/TERMINATE OVER THE LOWEST TREAD AND OVER THE TOP LANDING [R311.7.8.4]. REQUIRED HANDRAILS SHALL BE OF TYPE I OR TYPE II AS SHOWN IN DETAIL 4/S7 OR PROVIDE EQUIVALENT GRASPABILITY. EDGES OF HANDRAILS SHALL HAVE RADIUS OF NOT LESS THAN 0.01 INCH (NO SHARP CORNERS).



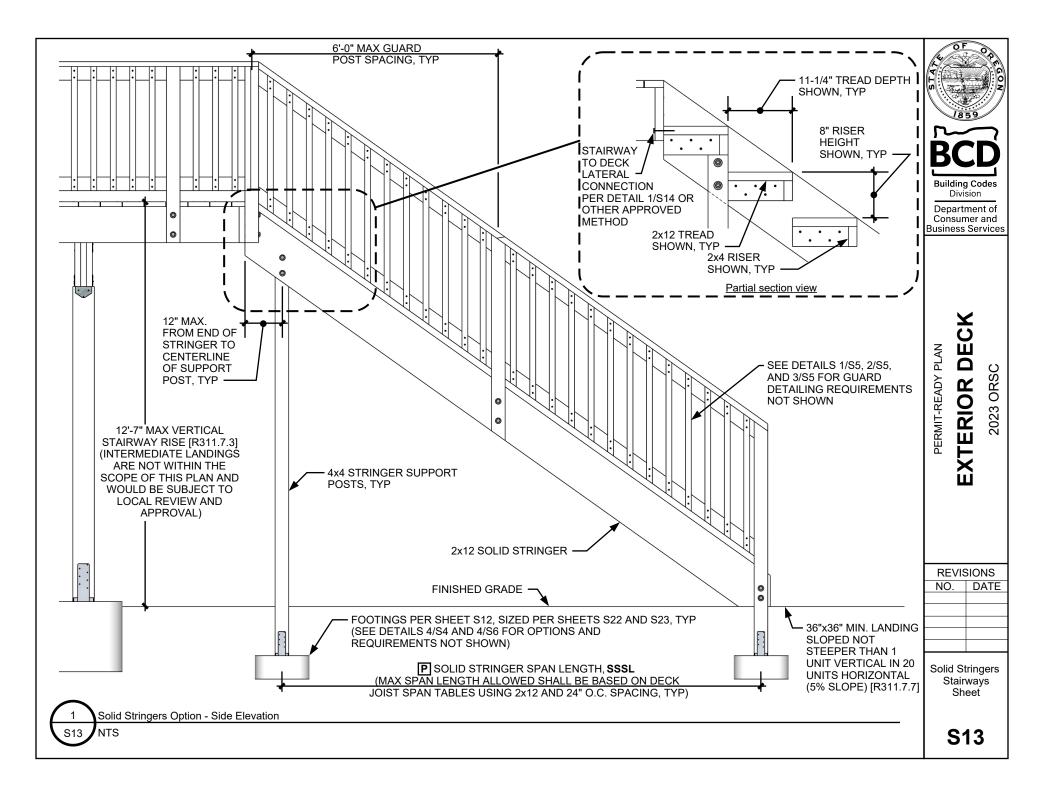


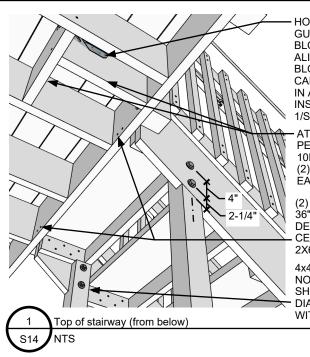






WHERE USING SHEETS S12-S15 FOR SOLID STRINGERS STAIRWAY CONSTRUCTION, THE PERMIT APPLICANT SHALL PROVIDE THEIR PROJECT-SPECIFIC SOLID STRINGER AND FOOTING INFORMATION BELOW PRIOR TO PERMIT APPLICATION: P SOLID STRINGERS Species: Cut Stringer Span Length, CSSL: ft. - in. O SOLID STRINGERS SUPPORT FOOTING Tributary area = (SSL/2 + 1ft)(1.5ft): Size: in. □square □round Thickness: in. **Building Codes** Division Department of Consumer and Business Services NOTE: SEE SHEETS S13 THROUGH S15 FOR SOLID STRINGERS STAIRWAY ELEVATION AND ASSOCIATED CONSTRUCTION DETAILS **EXTERIOR DECK** PERMIT-READY PLAN 2023 ORSC 4x4 MIN STRINGER SUPPORT POST, TYP SOLID STRINGER **REVISIONS** SUPPORT FOOTING, TYP NO. DATE P SOLID STRINGER SPAN LENGTH, SSSL Solid Stringers Stairways Sheet Solid Stringers Option - Perspective **S12**





HOLD-DOWN DEVICES FROM **GUARD POST TO ALIGNED BLOCKING AND FROM** ALIGNED BLOCKING TO PERP BLOCKING WITH MIN 1800 LB. CAPACITY EACH, INSTALLED IN ACCORDANCE WITH MFR'S INSTRUCTIONS (SEE DETAIL 1/S5 FOR INFO NOT SHOWN).

ATTACH BLOCKING TO PERP FRAMING WITH (2) 10D RING SHANK NAILS OR (2) #10x3" WOOD SCREWS **EÁCH END, TYP**

(2) #10x3" WOOD SCREWS AT 36" O.C. MAX FROM BACK OF **DECK RIM JOIST THROUGH** CENTER OF THICKNESS OF 2X6 TOP TREAD

4x4 POST EACH STRINGER, NOTCHED AND BOLTED AS **SHOWN WITH (2) 1/2"** DIAMETER THROUGH-BOLTS WITH WASHERS

36"

HOLD-DOWN DEVICES FROM ALIGNED GUARD POSTS TO 2x4 RISER WITH MIN 1800 LB. CAPACITY EACH, **INSTALLED IN** ACCORDANCE WITH MFR'S INSTRUCTIONS. THE THROUGH BOLTS AND WASHERS SHALL BE CENTERED ON THE **GUARD POSTS AND** SPACED AS SHOWN IN DETAIL 1/S5.

2x4 TREAD SUPPORT LEDGERS EACH SIDE. FULL DEPTH OF TREAD. **FASTENED TO** STRINGERS WITH (5) 8D THREADED NAILS OR (5) #8x2-1/2" WOOD SĆREWS, TYP



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PERMIT-READY PLAN

EXTERIOR DE

Top of stairway (from above)

Mid-height of stairway

2x4 GUARD BOTTOM RAIL ATTACHED EACH END TO **GUARD POSTS WITH (2)** 8D RING SHANK NAILS OR (2) #8x3" WOOD SCREWS,

2x12 TREAD SHOWN. TYP (SEE DETAIL 3/S7 FOR INFO NOT SHOWN)

2x4 RISER SHOWN, TYP

REVISIONS NO. DATE

Solid Stringers Stairways Sheet

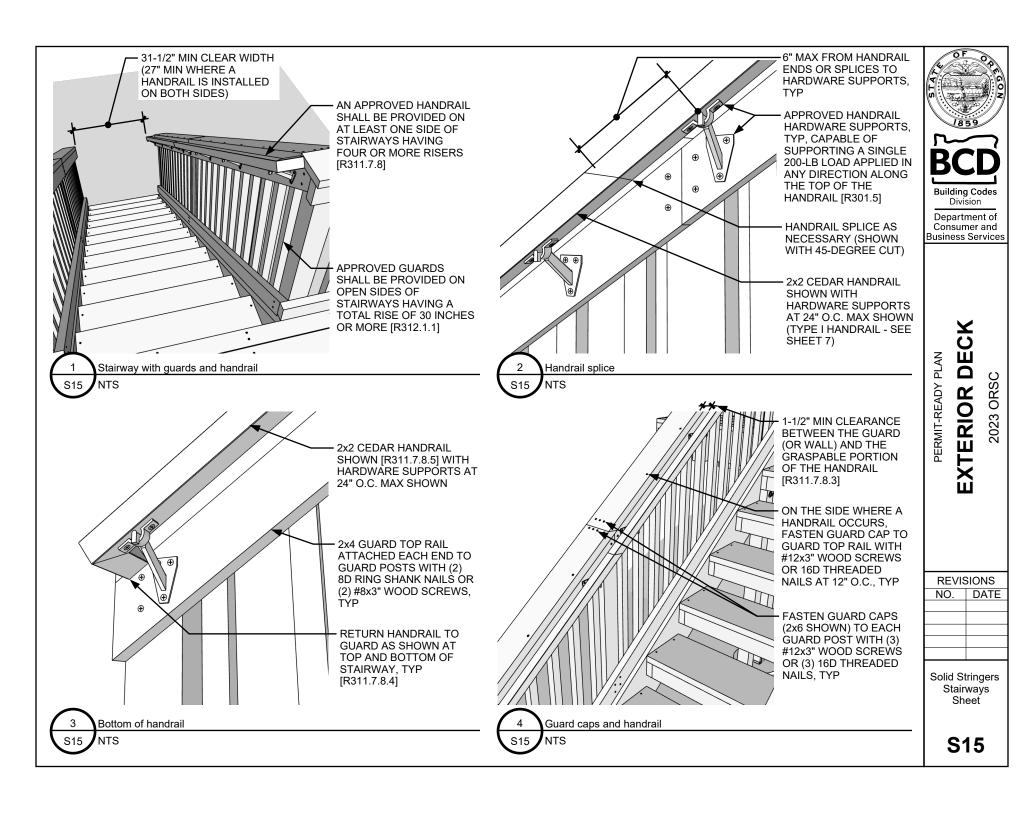
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(2) 1/2" DIAMETER THROUGH-BOLTS WITH WASHERS, TYP EA STRINGER TO POST (SEE DETAIL 3/S10 FOR INFO NOT SHOWN). AT BOTTOM OF STAIRWAY GUARD POSTS PROVIDE HOLD-DOWN DEVICE TO 2x4 RISER AS SHOWN WITH MIN 1800 LB CAPACITY, INSTALLED IN ACCORDANCE WITH MFR'S INSTRUCTIONS. FOOTING, TYP (SEE SHEETS S8 AND S9)

> ATTACH 2x4 BEARING BLOCK TO EACH POST WITH (8) 16D THREADED NAILS OR (8) #8x3 -1/2" WOOD SCREWS, TYP

NTS

Bottom of stairway



MAXIMUM JOIST SPACING FOR DECKING

	DECKING PERPEN	DICULAR TO JOIST	DECKING DIAGONAL TO JOIST ^a							
DECKING MATERIAL TYPE AND NOMINAL SIZE	Single span ^c	Multiple span ^c	Single span ^c	Multiple span ^c						
	Maximum on-center joist spacing (inches)									
5/4x wood ^b	12	16	8	12						
2x wood	24	24	18	24						
Plastic composite ^d	Per decking manufacturer		Per decking manufacturer	Per decking manufacturer						

- a. Maximum angle of 45 degrees from perpendicular for wood deck boards.
- b. Other maximum span provided by an accredited lumber grading or inspection agency also allowed.
- c. Individual wood deck boards supported by two joists shall be considered single span and three or more joists shall be considered multiple span.
- d. Plastic composite decking materials or their packaging shall bear a label that indicates compliance with ASTM D7032 and maximum allowable span.

Maximum Joist Spacing Table (from ORSC Table R507.7)

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DECK FASTENER AND CONNECTOR SPECIFICATIONS^{a, b}

ITEM	MATERIAL	MINIMUM FINISH/COATING	ALTERNATE FINISH/COATING
Nails and glulam rivets	In accordance with ASTM F1667	Hot-Dipped galvanized per ASTM A153, Class D for 3/8-inch diameter and less	Stainless steel, silicon bronze or copper
Approved wood screws	Per manufacturer's code-compliance report and specification for structural use	Per manufacturer's code-compliance report and specification for exterior use	Per manufacturer's code-compliance report and specification for exterior use
Bolts Lag screws (including nuts	In accordance with ASTM A307 (bolts), ASMT A563 (nuts), ASTM F844 (washers)	Hot-Dipped galvanized per ASTM A153, Class C (Class D for 3/8-inch diameter and less) or mechanically galvanized per ASTM B695, Class 55 or 410 stainless steel	Stainless steel, silicon bronze or copper
and washers) Metal connectors	Per manufacturer's code-compliance report and specification	ASTM A653 Type G185 zinc-coated galvanized steel or post hot- dipped galvanized per ASTM A123 providing a minimum average coating weight of 2.0 oz./ft2 (total both sides)	Stainless steel

- a. Equivalent materials, coatings and finishes shall be permitted.
- b. Fasteners and connectors exposed to salt water or located within 300 feet of a salt water shoreline shall be stainless steel.
- c. Stainless-steel-driven fasteners shall be in accordance with ASTM F1667.

Deck fastener and connector specifications (from ORSC Table R507.2.3)



PERMIT-READY PLAN **EXTERIOR DECK**

2023 ORSC

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Tables Sheet

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2

DECK LEDGER CONNECTION TO BAND JOIST

		DECK LEDGER CON	NECTION TO BAND JOIST			
GROUND SNOW			CENTER SPACING OF FASTENERS (inch	es)		
LOAD (psf)	JOIST SPAN ^a (feet)	1/2-inch diameter lag screw with 1/2-inch maximum sheathing ^{c, d}	1/2-inch diameter bolt with 1/2-inch maximum sheathing ^d	1/2-inch diameter bolt with 1-inch maximum sheathing ^e		
	6	30	36	36		
	8	23	36	36		
	10	18	34	29		
≤ 40	12	15	29	24		
	14	13	24	21		
	16	11	21	18		
	18	10	19	16		
	6	29	36	36		
	8	22	36	35		
	10	17	33	28		
≤ 50	12	14	27	23		
	14	12	23	20		
	16	11	20	17		
	18	9	18	15		
	6	25	36	36		
	8	18	35	30		
	10	15	28	24		
≤ 60	12	12	23	20		
	14	10	20	17		
	16	9	17	15		
	18	8	15	13		
	6	22	36	35		
	8	16	31	26		
	10	13	25	21		
≤ 70	12	11	20	17		
	14	9	17	15		
	16	8	15	13		
	18	7	13	11		

- a. Interpolation is allowed. Extrapolation is not allowed.
- b. Ledgers shall be flashed in accordance with Section R703.4 to prevent water from contacting the house band joist.
- c. The tip of the lag screw shall fully extend beyond the inside face of the band joist. Lag screws shall be full-body diameter screws.
- 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.

Deck Ledger Connection to Band Joist (from ORSC Table R507.9.1.3(1))



Building Codes

Division Department of **Business Services**

Consumer and

EXTERIOR DECK PERMIT-READY PLAN

2023 ORSC

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> Tables Sheet

MAXIMUM DECK JOIST SPAN LENGTHS, DJSL

GROUND SNOW LOAD (psf)	JOIST SPECIES ^a	JOIST	MAXIM	IUM DECK ENGTH, DJ inches)		MAXIMUM DECK JOIST CANTILEVER LENGTH, DJCL (feet-inches)							
LOAD (psi)	JOIST SPECIES	SIZE	Joist	spacing (ir	nches)	DECK JOIST BACK SPAN LENGTH [®] , DJSL (feet)							
			12	16	24	4	6	8	10	12	14	16	18
		2x6	9-11	9-0	7-7	1-0	1-6	1-5	NP	NP	NP	NP	NP
	Couthorn nine	2x8	13-1	11-10	9-8	1-0	1-6	2-0	2-6	2-3	NP	NP	NP
	Southern pine	2x10	16-2	14-0	11-5	1-0	1-6	2-0	2-6	3-0	3-4	3-4	NP
		2x12	18-0	16-6	13-6	1-0	1-6	2-0	2-6	3-0	3-6	4-0	4-1
		2x6	9-6	8-4	6-10	1-0	1-6	1-4	NP	NP	NP	NP	NP
≤ 40	Douglas fir-larch, Hem-fir,	2x8	12-6	11-1	9-1	1-0	1-6	2-0	2-3	2-0	NP	NP	NP
<u> </u>	Spruce-pine-fir	2x10	15-8	13-7	11-1	1-0	1-6	2-0	2-6	3-0	3-3	NP	NP
		2x12	18-0	15-9	12-10	1-0	1-6	2-0	2-6	3-0	3-6	3-11	3-11
	Dadwaad	2x6	8-10	8-0	6-10	1-0	1-4	1-1	NP	NP	NP	NP	NP
	Redwood, Western cedars,	2x8	11-8	10-7	8-8	1-0	1-6	2-0	1-11	NP	NP	NP	NP
	Ponderosa pine, Red pine	2x10	14-11	13-0	10-7	1-0	1-6	2-0	2-6	3-0	2-9	NP	NP
	,	2x12	17-5	15-1	12-4	1-0	1-6	2-0	2-6	3-0	3-6	3-8	NP
		2x6	9-2	8-4	7-4	1-0	1-6	1-5	NP	NP	NP	NP	NP
	Southern pine	2x8	12-1	11-0	9-5	1-0	1-6	2-0	2-5	2-3	NP	NP	NP
	Coddicin pine	2x10	15-5	13-9	11-3	1-0	1-6	2-0	2-6	3-0	3-1	NP	NP
		2x12	18-0	16-2	13-2	1-0	1-6	2-0	2-6	3-0	3-6	3-10	3-10
		2x6	8-10	8-0	6-8	1-0	1-6	1-4	NP	NP	NP	NP	NP
≤ 50	Douglas fir-larch, Hem-fir,	2x8	11-7	10-7	8-11	1-0	1-6	2-0	2-3	NP	NP	NP	NP
3 30	Spruce-pine-fir	2x10	14-10	13-3	10-10	1-0	1-6	2-0	2-6	3-0	3-0	NP	NP
		2x12	17-9	15-5	12-7	1-0	1-6	2-0	2-6	3-0	3-6	3-8	NP
	Redwood.	2x6	8-3	7-6	6-6	1-0	1-4	1-1	NP	NP	NP	NP	NP
	Western cedars,	2x8	10-10	9-10	8-6	1-0	1-6	2-0	1-11	NP	NP	NP	NP
	Ponderosa pine, Red pine	2x10	13-10	12-7	10-5	1-0	1-6	2-0	2-6	2-9	NP	NP	NP
	,	2x12	16-10	14-9	12-1	1-0	1-6	2-0	2-6	3-0	3-5	3-5	NP

NP = Not Permitted

a. No. 2 grade.

b. Interpolation is allowed. Extrapolation is not allowed.

Maximum Deck Joist Span Lengths For Ground Snow Loads≤ 40 PSF and ≤ 50 PSF (from ORSC Table R507.6)

Building Codes
Division
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Consumer and
Business Services

EXTERIOR DECK 2023 ORSC

REVISIONS NO. DATE

> Tables Sheet

MAXIMUM DECK JOIST SPAN LENGTHS, DJSL

GROUND SNOW	JOIST SPECIES®	JOIST	MAXIMUM DECK JOIST SPAN LENGTH, DJSL (feet- inches)			MAXIMUM DECK JOIST CANTILEVER LENGTH, DJCL (feet-inches)							
LOAD (psf)	JOIST SPECIES	SIZE	Joist	spacing (ir	nches)		DE	CK JOIST	BACK SPA	N LENGTI	H ^b , DJSL (f	eet)	
			12	16	24	4	6	8	10	12	14	16	18
		2x6	8-8	7-10	6-10	1-0	1-6	1-5	NP	NP	NP	NP	NP
	Couthorn nine	2x8	11-5	10-4	8-9	1-0	1-6	2-0	2-4	NP	NP	NP	NP
	Southern pine	2x10	14-7	12-9	10-5	1-0	1-6	2-0	2-6	2-11	2-11	NP	NP
		2x12	17-3	15-0	12-3	1-0	1-6	2-0	2-6	3-0	3-6	3-7	NP
		2x6	8-4	7-6	6-2	1-0	1-6	1-4	NP	NP	NP	NP	NP
≤ 60	Douglas fir-larch, Hem-fir,	2x8	10-11	9-11	8-3	1-0	1-6	2-0	2-2	NP	NP	NP	NP
_ ≤ 00	Spruce-pine-fir	2x10	13-11	12-4	10-0	1-0	1-6	2-0	2-6	2-10	NP	NP	NP
		2x12	16-6	14-3	11-8	1-0	1-6	2-0	2-6	3-0	3-5	3-5	NP
	Dadwaad	2x6	7-9	7-0	6-2	1-0	1-4	NP	NP	NP	NP	NP	NP
	Redwood, Western cedars,	2x8	10-2	9-3	7-11	1-0	1-6	2-0	1-11	NP	NP	NP	NP
	Ponderosa pine, Red pine	2x10	13-0	11-9	9-7	1-0	1-6	2-0	2-6	2-7	NP	NP	NP
	,	2x12	15-9	13-8	11-2	1-0	1-6	2-0	2-6	3-0	3-2	NP	NP
		2x6	8-3	7-6	6-5	1-0	1-6	1-5	NP	NP	NP	NP	NP
	Southern pine	2x8	10-10	9-10	8-2	1-0	1-6	2-0	2-2	NP	NP	NP	NP
	Coddicin pine	2x10	13-9	11-11	9-9	1-0	1-6	2-0	2-6	2-9	NP	NP	NP
		2x12	16-2	14-0	11-5	1-0	1-6	2-0	2-6	3-0	3-5	3-5	NP
		2x6	7-11	7-1	5-9	1-0	1-6	NP	NP	NP	NP	NP	NP
≤ 70	Douglas fir-larch, Hem-fir,	2x8	1-05	9-5	7-8	1-0	1-6	2-0	2-1	NP	NP	NP	NP
370	Spruce-pine-fir	2x10	13-3	11-6	9-5	1-0	1-6	2-0	2-6	2-8	NP	NP	NP
		2x12	15-5	13-4	10-11	1-0	1-6	2-0	2-6	3-0	3-3	NP	NP
	Redwood.	2x6	7-4	6-8	5-10	1-0	1-4	NP	NP	NP	NP	NP	NP
	Western cedars,	2x8	9-8	8-10	7-4	1-0	1-6	1-11	NP	NP	NP	NP	NP
	Ponderosa pine, Red pine	2x10	12-4	11-0	9-0	1-0	1-6	2-0	2-6	2-6	NP	NP	NP
	,	2x12	14-9	12-9	10-5	1-0	1-6	2-0	2-6	3-0	3-0	NP	NP

NP = Not Permitted

a. No. 2 grade.

b. Interpolation is allowed. Extrapolation is not allowed.

Maximum Deck Joist Span Lengths For Ground Snow Loads≤ 60 PSF and ≤ 70 PSF (from ORSC Table R507.6)

BCD

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MAXIMUM DECK POST HEIGHTS

					<u> </u>		AREA (ft²)b, c			
GROUND SNOW LOAD (psf)	POST SPECIES ^a	POST SIZE	20	40	60	80	100	120	140	160
					MAXIMUI	M DECK POS	Γ HEIGHT ^a (fe	et-inches)		
		4x4	14-0	13-8	11-0	9-5	5-4	7-5	6-9	6-2
	Courth arm min a	4x6	14-0	14-0	13-11	12-0	10-8	9-8	8-10	8-2
	Southern pine	6x6	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		4x4	14-0	13-6	10-10	9-3	8-0	7-0	6-2	5-3
≤ 40	Douglas fir-larch, Hem-fir,	4x6	14-0	14-0	13-10	11-10	10-6	9-5	8-7	7-10
≥ 40	Spruce-pine-fir	6x6	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		4x4	14-0	13-2	10-3	8-1	5-8	NP	NP	NP
	Redwood, Western cedars,	4x6	14-0	14-0	13-6	11-4	9-9	8-4	6-9	4-7
	Ponderosa pine, Red pine	6x6	14-0	14-0	14-0	14-0	14-0	14-0	13-7	9-7
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		4x4	14-0	12-2	9-10	8-5	7-5	6-7	5-11	5-4
	Southern pine	4x6	14-0	14-0	12-6	10-9	9-6	8-7	7-10	7-3
	Southern pine	6x6	14-0	14-0	14-0	14-0	14-0	14-0	14-0	13-4
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		4x4	14-0	12-1	9-8	8-2	7-1	6-2	5-3	4-2
≤ 50	Douglas fir-larch, Hem-fir,	4x6	14-0	14-0	12-4	10-7	9-4	8-4	7-7	6-11
≥ 50	Spruce-pine-fir	6x6	14-0	14-0	14-0	14-0	14-0	14-0	14-0	12-10
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0
		4x4	14-0	11-8	9-0	6-10	3-7	NP	NP	NP
	Redwood, Western cedars,	4x6	14-0	14-0	12-0	10-0	8-6	7-0	5-3	NP
	Ponderosa pine, Red pine	6x6	14-0	14-0	14-0	14-0	14-0	14-0	10-8	2-4
	i tou pino	8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0

NP = Not Permitted

- a. Measured from the underside of the beam to the top of footing or pier.b. Deck floor area, in square feet, supported by post and footing.c. Interpolation is allowed. Extrapolation is not allowed.

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Maximum Deck Post Heights For Ground Snow Loads≤ 40 PSF and ≤ 50 PSF (from ORSC Table R507.4)

MAXIMUM DECK POST HEIGHTS

				XIIVIOW DE			AREA (ft²)b, c				
GROUND SNOW LOAD (psf)	POST SPECIES ^a	POST SIZE	20	40	60	80	100	120	140	160	
			MAXIMUM DECK POST HEIGHT ^a (feet-inches)								
		4x4	14-0	11-1	8-11	7-7	6-7	5-10	5-2	4-6	
	Courth arm min a	4x6	14-0	14-0	11-4	9-9	8-7	7-9	7-1	6-6	
	Southern pine	6x6	14-0	14-0	14-0	14-0	14-0	14-0	12-9	11-2	
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	
		4x4	14-0	10-11	8-8	7-3	6-2	5-0	3-7	NP	
≤ 60	Douglas fir-larch, Hem-fir,	4x6	14-0	13-11	11-2	9-7	8-4	7-5	6-8	5-11	
≥ 00	Spruce-pine-fir	6x6	14-0	14-0	14-0	14-0	14-0	14-0	12-2	10-2	
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	
		4x4	14-0	10-6	7-9	4-7	NP	NP	NP	NP	
	Redwood, Western cedars,	4x6	14-0	13-7	10-9	8-9	7-0	4-9	NP	NP	
	Ponderosa pine, Red pine	6x6	14-0	14-0	14-0	14-0	14-0	9-9	NP	NP	
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	
		4x4	14-0	10-2	8-2	6-11	5-11	5-2	4-4	3-4	
	Southern pine	4x6	14-0	12-11	10-5	8-11	7-10	7-1	6-5	5-10	
	Southern pine	6x6	14-0	14-0	14-0	14-0	14-0	12-9	10-11	8-7	
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	
		4x4	14-0	10-1	7-11	6-6	5-3	3-7	NP	NP	
≤ 70	Douglas fir-larch, Hem-fir,	4x6	14-0	12-10	10-3	8-9	7-7	6-8	5-10	4-11	
≥ 70	Spruce-pine-fir	6x6	14-0	14-0	14-0	14-0	14-0	12-2	9-9	5-9	
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	
		4x4	14-0	9-5	6-5	NP	NP	NP	NP	NP	
	Redwood, Western cedars,	4x6	14-0	12-6	9-8	7-7	5-3	NP	NP	NP	
	Ponderosa pine, Red pine	6x6	14-0	14-0	14-0	14-0	10-8	NP	NP	NP	
		8x8	14-0	14-0	14-0	14-0	14-0	14-0	14-0	14-0	

NP = Not Permitted

- a. Measured from the underside of the beam to the top of footing or pier.b. Deck floor area, in square feet, supported by post and footing.c. Interpolation is allowed. Extrapolation is not allowed.

Building Codes Division Department of Consumer and Business Services

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Maximum Deck Post Heights For Ground Snow Loads≤ 60 PSF and ≤ 70 PSF (from ORSC Table R507.4)

MINIMUM DECK FOOTING SIZES

					LOAD-BEARIN	NG VALUE OF	SOIL ^{a, c, d} (psf)			
GROUND SNOW LOAD (psf)	TRIBUTARY		1,500			2,000		≥ 3,000			
LOAD (pst)	AREA ^b (ft ²)	Side length of square footing (inches)	Diameter of round footing (inches)	Thickness (inches)	Side length of square footing (inches)	Diameter of round footing (inches)	Thickness (inches)	Side length of square footing (inches)	Diameter of round footing (inches)	Thickness (inches)	
	5	7	8	6	7	8	6	7	8	6	
	20	10	12	6	9	9	6	7	8	6	
	40	14	16	6	12	14	6	10	12	6	
	60	17	19	6	15	17	6	12	14	6	
≤ 40	80	20	22	7	17	19	6	14	16	6	
	100	22	25	8	19	21	6	15	17	6	
	120	24	27	9	21	23	7	17	19	6	
	140	26	29	10	22	25	8	18	21	6	
	160	28	31	11	24	27	9	20	22	7	
	5	7	8	6	7	8	6	7	8	6	
	20	11	13	6	10	11	6	8	9	6	
	40	15	17	6	13	15	6	11	13	6	
	60	19	21	6	16	18	6	13	15	6	
≤ 50	80	21	24	8	19	21	6	15	17	6	
	100	24	27	9	21	23	7	17	19	6	
	120	26	30	10	23	26	8	19	21	6	
	140	28	32	11	25	28	9	20	23	7	
	160	30	34	12	26	30	10	21	24	8	

- a. Footing dimensions shall allow complete bearing of the post.
 b. Deck floor area, in square feet, supported by post and footing.
 c. Interpolation is allowed. Extrapolation is not allowed.
 d. A default value of 1,500 psf shall be used unless otherwise required or approved by the building official.

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Tables Sheet

Minimum Deck Footing Sizes For Ground Snow Loads ≤ 40 PSF and ≤ 50 PSF (from ORSC Table R507.3.1)

MINIMUM DECK FOOTING SIZES

					LOAD-BEARIN	NG VALUE OF	SOIL ^{a, c, d} (psf)			
GROUND SNOW	TRIBUTARY		1,500			2,000		≥ 3,000			
LOAD (psf)	AREA ^b (ft ²)	Side length of square footing (inches)	Diameter of round footing (inches)	Thickness (inches)	Side length of square footing (inches)	Diameter of round footing (inches)	Thickness (inches)	Side length of square footing (inches)	Diameter of round footing (inches)	Thickness (inches)	
	5	7	8	6	7	8	6	7	8	6	
	20	12	14	6	11	12	6	9	10	6	
	40	16	19	6	14	16	8	12	14	6	
	60	20	23	7	17	20	6	14	16	6	
≤ 60	80	23	26	9	20	23	7	16	19	6	
	100	26	29	10	22	25	8	18	21	6	
	120	28	32	11	25	28	9	20	23	7	
	140	31	35	12	27	30	10	22	24	8	
	160	33	37	13	28	32	11	23	26	9	
	5	7	8	6	7	8	6	7	8	6	
	20	12	14	6	11	13	6	9	10	6	
	40	18	20	6	15	17	6	12	14	6	
	60	21	24	8	19	21	6	15	17	6	
≤ 70	80	25	28	9	21	24	8	18	20	6	
	100	28	31	11	24	27	9	20	22	7	
	120	30	34	12	26	30	10	21	24	8	
	140	33	37	13	28	32	11	23	26	9	
	160	35	40	15	30	34	12	25	28	9	

- a. Footing dimensions shall allow complete bearing of the post.
 b. Deck floor area, in square feet, supported by post and footing.
 c. Interpolation is allowed. Extrapolation is not allowed.
 d. A default value of 1,500 psf shall be used unless otherwise required or approved by the building official.

Building Codes Division Department of Consumer and Business Services

EXTERIOR DECK PERMIT-READY PLAN

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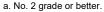
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Tables Sheet

Minimum Deck Footing Sizes For Ground Snow Loads ≤ 60 PSF and ≤ 70 PSF (from ORSC Table R507.3.1)

MAXIMUM DECK BEAM SPAN LENGTHS. DBSL - < 40 PSF GROUND SNOW LOAD

	JOIST SPAN (feet)	DECK JOIST SPAN LENGTH, DJSL, AND DECK JOIST CANTILEVER LENGTH ^b , DJCL (feet & feet)										
	6	6 & 0	6 & 1.5									
	8		8 & 0	8 & 1	8 & 2							
	10			10 & 0	10 & 1	10 & 2.5						
	12				12 & 0	12 & 1	12 & 2	12 & 3				
	14					14 & 0	14 & 1	14 & 2	14 & 3.5			
	16						16 & 0	16 & 1	16 & 2.5	16 & 4		
	18						1000	18 & 0	18 & 1.5	18 & 3	18 & 4.5	
BEAM SPECIES ^a	BEAM SIZE®			I M	YIMIIM DECK	BEAM SPAN	I ENGTHb.c.d D			1000	10 4 4.0	
DEAM OF LOILS	1-2x6	4-10	4-7	4-3	4-0	3-7	3-5	3-3	3-0	2-10	2-8	
	1-2x8	6-4	5-11	5-6	5-1	4-7	4-4	4-2	3-10	3-7	3-5	
	1-2x10	7-6	7-0	6-6	6-0	5-5	5-2	4-11	4-7	4-3	4-0	
	1-2x12	8-8	8-3	7-8	7-1	6-4	6-1	5-10	5-5	5-0	4-9	
	2-2x6	7-4	6-11	6-5	5-11	5-4	5-1	4-10	4-6	4-3	4-0	
	2-2x8	9-4	8-9	8-2	7-7	6-9	6-5	6-2	5-9	5-4	5-0	
Southern pine	2-2x10	11-0	10-4	9-8	9-0	8-0	7-8	7-4	6-9	6-4	6-0	
	2-2x12	13-0	12-2	11-4	10-7	9-5	9-0	8-7	8-0	7-5	7-0	
	3-2x6	9-0	8-6	7-11	7-5	6-8	6-4	6-1	5-8	5-3	4-11	
	3-2x8	11-7	10-11	10-3	9-6	8-6	8-1	7-9	7-2	6-8	6-4	
	3-2x10	13-11	13-0	12-1	11-2	10-0	9-7	9-2	8-6	7-11	7-6	
	3-2x12	16-3	15-3	14-3	13-3	11-10	11-3	10-9	10-0	9-4	8-10	
	1-2x6	4-5	4-1	3-9	3-6	3-0	2-10	2-8	2-5	2-3	2-1	
	1-2x8	5-11	5-6	5-1	4-8	4-0	3-9	3-6	3-2	2-11	2-9	
	1-2x10	7-1	6-8	6-3	5-10	5-1	4-9	4-6	4-1	3-9	3-6	
	1-2x12	8-3	7-9	7-3	6-9	6-0	5-9	5-6	5-0	3-9	3-6	
	2-2x6	6-6	6-1	5-8	5-3	4-9	4-6	4-4	3-11	3-7	3-3	
Douglas fir-larch,	2-2x8	8-8	8-2	7-7	7-1	6-4	6-0	5-9	5-2	4-8	4-4	
Hem-fir, Spruce-pine-fir	2-2x10	10-8	10-0	9-3	8-7	7-9	7-4	7-0	6-6	6-0	5-6	
oprado pino in	2-2x12	12-4	11-7	10-9	10-0	8-11	8-6	8-2	7-7	7-1	6-8	
	3-2x6	8-2	7-8	7-2	6-8	6-0	5-9	5-6	5-1	4-9	4-6	
	3-2x8	10-11	10-3	9-6	8-10	7-11	7-7	7-3	6-8	6-3	5-11	
	3-2x10	13-4	12-6	11-8	10-10	9-8	9-3	8-10	8-2	7-8	7-2	
	3-2x12	15-6	14-6	13-6	12-7	11-3	10-9	10-3	9-6	8-11	8-5	
	1-2x6	4-5	4-2	3-10	3-7	3-1	2-11	2-9	2-6	2-3	2-2	
	1-2x8	5-8	5-4	4-11	4-7	4-1	3-10	3-7	3-3	3-0	2-10	
	1-2x10	6-11	6-6	6-0	5-7	5-0	4-9	4-7	4-2	3-10	3-7	
	1-2x12	8-0	7-6	7-0	6-6	5-10	5-7	5-4	4-11	4-7	4-4	
Redwood, Western	2-2x6	6-7	6-2	5-9	5-4	4-10	4-7	4-5	4-0	3-8	3-4	
cedars, Ponderosa	2-2x8	8-4	7-10	7-4	6-10	6-1	5-10	5-7	5-2	4-10	4-5	
pine, Red pine	2-2x10	12-2	9-7	8-11	8-4	7-5	7-1	6-9	6-3	5-10	5-6	
	2-2x12	11-9	11-1	10-4	9-8	8-7	8-2	7-10	7-3	6-10	6-5	
	3-2x6	8-1	7-8	7-2	6-9	6-0	5-9	5-6	5-1	4-9	4-6	
	3-2x8	10-6	9-10	9-2	8-6	7-7	7-3	6-11	6-5	6-0	5-8	
	3-2x10	12-9	12-0	11-2	10-5	9-4	8-11	8-6	7-10	7-4	6-11	
a Na O arada ar h	3-2x12	14-10	13-11	13-0	12-1	10-9	10-3	9-10	9-1	8-6	8-1	



- a. No. 2 grade of better.

 b. Interpolation is only allowed for conditions with zero Deck Joist Cantilever Length, DJCL. Extrapolation is not allowed.
 c. For deck beams supporting a single span of joists with or without joist cantilever.
 d. Deck Beam Cantilever Lengths, DBCL, are limited to the actual Deck Beam Span Length, DBSL, divided by 4 (DBSL/4).
 e. Beam depth shall be equal to or greater than the depth of intersecting joist for a flush beam connection.

Maximum Deck Beam Span Lengths For Ground Snow Loads≤ 40 PSF (from ORSC Table R507.5(1))



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> Tables Sheet

MAXIMUM DECK BEAM SPAN LENGTHS, DBSL — ≤ 50 PSF GROUND SNOW LOAD

	JOIST SPAN (feet)	(feet) DECK JOIST SPAN LENGTH, DJSL, AND DECK JOIST CANTILEVER LENGTH ^b , DJCL (feet & feet)										
	6	6 & 0	6 & 1.5									
	8		8 & 0	8 & 1	8 & 2							
	10			10 & 0	10 & 1	10 & 2.5						
	12				12 & 0	12 & 1	12 & 2	12 & 3				
	14					14 & 0	14 & 1	14 & 2	14 & 3.5			
	16						16 & 0	16 & 1	16 & 2.5	16 & 4		
	18						1000	18 & 0	18 & 1.5	18 & 3	18 & 4.5	
BEAM SPECIES ^a	BEAM SIZE®			I M/	YIMIIM DECK	BEAM SPAN	I ENGTHb.c.d D			1000	10 4 4.0	
BEAW OF EOILS	1-2x6	4-9	4-6	4-2	3-11	3-6	3-4	3-2	2-11	2-9	2-7	
	1-2x8	6-2	5-9	5-4	4-11	4-5	4-2	4-0	3-9	3-6	3-3	
1	1-2x10	7-2	6-9	6-3	5-10	5-3	5-0	4-9	4-5	4-2	3-11	
1	1-2x12	8-6	8-0	7-5	6-11	6-2	5-11	5-8	5-3	4-11	4-7	
	2-2x6	7-1	6-8	6-2	5-9	5-2	4-11	4-9	4-4	4-1	3-10	
	2-2x8	9-1	8-6	7-11	7-4	6-7	6-3	6-0	5-7	5-2	4-11	
Southern pine	2-2x10	10-9	10-1	9-5	8-9	7-10	7-5	7-1	6-7	6-2	5-10	
	2-2x12	12-9	11-11	11-1	10-3	9-2	8-9	8-5	7-9	7-3	6-10	
	3-2x6	8-3	7-11	7-6	7-2	6-6	6-2	5-11	5-6	5-1	4-10	
	3-2x8	11-0	10-5	9-10	9-3	8-3	7-10	7-6	6-11	6-6	6-2	
	3-2x10	13-6	12-8	11-9	10-11	9-9	8-4	8-11	8-3	7-9	7-3	
	3-2x12	15-11	14-11	13-11	12-11	11-6	11-0	10-6	9-9	9-1	8-7	
	1-2x6	4-3	4-0	3-8	3-5	2-11	2-9	2-7	2-4	2-2	2-0	
	1-2x8	5-9	5-4	4-11	4-7	3-11	3-8	3-5	3-1	2-10	2-8	
	1-2x10	7-0	6-7	6-1	5-8	4-11	4-8	4-5	4-0	3-8	3-5	
	1-2x12	8-1	7-7	7-1	6-7	5-11	5-7	5-4	4-10	4-6	4-2	
	2-2x6	6-5	6-0	5-7	5-2	4-7	4-4	4-2	3-10	3-5	3-2	
Douglas fir-larch, Hem-fir,	2-2x8	8-6	8-0	7-5	6-11	6-2	5-11	5-8	5-0	4-7	4-2	
Spruce-pine-fir	2-2x10	10-5	9-9	9-1	8-5	7-7	7-3	6-11	6-4	5-10	5-4	
	2-2x12	12-1	11-4	10-7	9-10	8-9	8-4	8-0	7-5	6-11	6-6	
	3-2x6	8-0	7-6	7-0	6-6	5-9	5-6	5-3	4-11	4-7	4-4	
	3-2x8	10-8	10-0	9-4	8-8	7-9	7-5	7-1	6-6	6-1	5-8	
	3-2x10	13-1	12-3	11-5	10-7	9-6	9-1	8-8	8-0	7-6	7-0	
	3-2x12	15-2	14-3	13-3	12-4	11-0	10-6	10-1	9-4	8-9	8-3	
	1-2x6	4-4	4-1	3-9	3-6	3-0	2-10	2-8	2-5	2-3	2-1	
	1-2x8	5-6	5-2	4-10	4-6	4-0	3-9	3-6	3-2	2-11	2-9	
	1-2x10	6-9	6-4	5-11	5-6	4-11	4-8	4-6	4-1	3-9	3-6	
	1-2x12	7-10	7-4	6-10	6-4	5-8	5-5	5-2	4-10	4-6	4-3	
Redwood, Western	2-2x6	6-6	6-1	5-8	5-3	4-8	4-6	4-4	3-11	3-6	3-3	
cedars, Ponderosa	2-2x8	8-2	7-8	7-2	6-8	5-11	5-8	5-5	5-0	4-8	4-3	
pine, Red pine	2-2x10	10-0	9-5	8-9	8-2	7-3	6-11	6-8	6-2	5-9	5-5	
	2-2x12	11-8	10-11	10-2	9-5	8-5	8-0	7-8	7-2	6-8	6-3	
	3-2x6	7-5	7-1	6-9	6-5	5-11	5-8	5-5	5-0	4-8	4-5	
	3-2x8	9-10	9-4	8-10	8-4	7-5	7-1	6-10	6-4	5-11	5-7	
	3-2x10	12-6	11-9	10-11	10-2	9-1	8-8	8-4	7-8	7-2	6-9	
a Na O grada ar h	3-2x12	14-7	13-8	12-9	11-10	10-7	10-1	9-8	8-11	8-4	7-10	

- a. No. 2 grade or better.

- a. No. 2 grade of better.

 b. Interpolation is only allowed for conditions with zero Deck Joist Cantilever Length, DJCL. Extrapolation is not allowed.
 c. For deck beams supporting a single span of joists with or without joist cantilever.
 d. Deck Beam Cantilever Lengths, DBCL, are limited to the actual Deck Beam Span Length, DBSL, divided by 4 (DBSL/4).
 e. Beam depth shall be equal to or greater than the depth of intersecting joist for a flush beam connection.

Maximum Deck Beam Span Lengths For Ground Snow Loads≤ 50 PSF (from ORSC Table R507.5(2))



Department of Consumer and Business Services

EXTERIOR DECK PERMIT-READY PLAN 2023 ORSC

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> Tables Sheet

MAXIMUM DECK BEAM SPAN LENGTHS, DBSL — ≤ 60 PSF GROUND SNOW LOAD

	JOIST SPAN (feet)	DIST SPAN (feet) DECK JOIST SPAN LENGTH, DJSL, AND DECK JOIST CANTILEVER LENGTH ^b , DJCL (feet & feet)										
	6	6 & 0	6 & 1.5									
	8		8 & 0	8 & 1	8 & 2							
	10			10 & 0	10 & 1	10 & 2.5						
	12				12 & 0	12 & 1	12 & 2	12 & 3				
	14					14 & 0	14 & 1	14 & 2	14 & 3.5			
	16					1744	16 & 0	16 & 1	16 & 2.5	16 & 4		
	18						1000	18 & 0	18 & 1.5	18 & 3	18 & 4.5	
DEAM OBEOLEG			<u> </u>		VINALINA DEGI	DEAM CDAN	 ENGTUDED			10 & 3	10 & 4.5	
BEAM SPECIES ^a	BEAM SIZE®	4.5	1 10				LENGTH ^{b,c,d} , D	· ` `		0.0	0.5	
	1-2x6 1-2x8	4-5 5-7	4-2 5-3	3-10 4-11	3-7 4-7	3-3 4-1	3-1 3-11	2-11 3-9	2-9 3-5	2-6 3-3	2-5 3-0	
	1-2x6 1-2x10	6-8	6-3	5-10	5-5	4-10	4-7	3-9 4-5	3-5 4-1	3-10	3-0	
	1-2x10 1-2x12	7-11	7-5	6-11	5-5 6-5	5-9	5-6	5-3	4-10	3-10 4-6	4-3	
	2-2x6	6-7	6-2	5-9	5-4	4-9	4-6	4-4	4-10	3-9	3-7	
	2-2x8 2-2x8	8-4	7-10	7-4	6-10	6-1	5-10	5-7	5-2	4-10	3-7 4-6	
Southern pine	2-2x0 2-2x10	9-10	9-4	8-8	8-1	7-3	6-11	6-7	6-1	5-8	5-4	
	2-2x10 2-2x12	11-9	11-0	10-3	9-6	8-6	8-1	7-9	7-2	6-9	6-4	
	3-2x6	7-9	7-5	7-1	6-9	6-0	5-9	7-9 5-6	5-1	4-9	4-6	
	3-2x8	10-4	9-9	9-1	8-6	7-8	7-3	6-11	6-5	6-0	5-8	
	3-2x10	12-5	11-8	10-11	10-2	9-1	8-8	8-3	7-8	7-2	6-9	
	3-2x10	14-8	13-9	12-10	11-11	10-8	10-2	9-9	9-0	8-5	7-11	
	1-2x6	3-11	3-8	3-4	3-1	2-8	2-6	2-4	2-2	2-0	1-10	
	1-2x8	5-5	5-0	4-6	4-1	3-6	3-3	3-1	2-10	2-7	2-5	
	1-2x10	6-6	6-1	5-7	5-2	4-6	4-3	4-0	3-7	3-4	3-2	
	1-2x12	7-7	7-1	6-7	6-1	5-5	5-1	4-10	4-5	4-1	3-10	
	2-2x6	5-10	5-6	5-1	4-9	4-3	4-0	3-10	3-5	3-1	2-10	
Douglas fir-larch,	2-2x8	7-11	7-5	6-11	6-5	5-9	5-4	5-0	4-6	4-1	3-9	
Hem-fir,	2-2x10	9-7	9-0	8-5	7-10	7-0	6-8	6-4	5-9	5-2	4-10	
Spruce-pine-fir	2-2x12	11-2	10-6	9-9	9-1	8-1	7-9	7-5	6-10	6-4	5-10	
	3-2x6	7-4	6-11	6-5	6-0	5-4	5-1	4-11	4-6	4-2	3-10	
	3-2x8	9-10	9-3	8-7	8-0	7-2	6-10	6-6	6-1	5-6	5-0	
	3-2x10	12-1	11-4	10-7	9-10	8-9	8-4	8-0	7-5	6-11	6-5	
	3-2x12	13-6	13-2	11-9	11-5	10-2	9-9	9-4	8-7	8-1	7-7	
	1-2x6	4-0	3-9	3-5	3-2	2-9	2-7	2-5	2-2	2-0	1-11	
	1-2x8	5-2	4-10	4-6	4-2	3-7	3-4	3-2	2-11	2-8	2-6	
	1-2x10	6-2	5-10	5-5	5-1	4-6	4-3	4-1	3-8	3-5	3-3	
	1-2x12	7-3	6-10	6-4	5-11	5-3	5-0	4-10	4-5	4-2	3-11	
.	2-2x6	5-11	5-7	5-2	4-10	4-4	4-1	3-11	3-6	3-2	2-11	
Redwood, Western cedars, Ponderosa	2-2x8	7-6	7-1	6-7	6-2	5-6	5-3	5-0	4-7	4-2	3-10	
pine, Red pine	2-2x10	9-3	8-8	8-1	7-6	6-9	6-5	6-2	5-8	5-4	4-11	
[2-2x12	10-8	10-1	9-5	8-9	7-10	7-6	7-2	6-7	6-2	5-10	
	3-2x6	6-11	6-8	6-4	6-1	5-5	5-2	5-0	4-7	4-3	3-11	
	3-2x8	9-3	8-9	8-3	7-9	6-11	6-7	6-4	5-10	5-5	5-3	
	3-2x10	11-8	10-11	10-2	9-5	8-5	8-0	7-8	7-3	6-8	6-3	
	3-2x12	13-6	12-8	11-9	10-11	9-9	8-4	8-11	8-3	7-9	7-3	

- a. No. 2 grade or better.

- a. No. 2 grade or better.
 b. Interpolation is only allowed for conditions with zero Deck Joist Cantilever Length, DJCL. Extrapolation is not allowed.
 c. For deck beams supporting a single span of joists with or without joist cantilever.
 d. Deck Beam Cantilever Lengths, DBCL, are limited to the actual Deck Beam Span Length, DBSL, divided by 4 (DBSL/4).
 e. Beam depth shall be equal to or greater than the depth of intersecting joist for a flush beam connection.

Maximum Deck Beam Span Lengths For Ground Snow Loads ≤ 60 PSF (from ORSC Table R507.5(3))



Department of Consumer and Business Services

EXTERIOR DECK PERMIT-READY PLAN 2023 ORSC

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> Tables Sheet

MAXIMUM DECK BEAM SPAN LENGTHS, DBSL — ≤ 70 PSF GROUND SNOW LOAD

	JOIST SPAN (feet)	(feet) DECK JOIST SPAN LENGTH, DJSL, AND DECK JOIST CANTILEVER LENGTH ^b , DJCL (feet & feet)										
	6	6 & 0	6 & 1.5									
	8		8 & 0	8 & 1	8 & 2							
	10			10 & 0	10 & 1	10 & 2.5						
	12				12 & 0	12 & 1	12 & 2	12 & 3				
	14					14 & 0	14 & 1	14 & 2	14 & 3.5			
	16						16 & 0	16 & 1	16 & 2.5	16 & 4		
	18						1000	18 & 0	18 & 1.5	18 & 3	18 & 4.5	
BEAM SPECIES ^a	BEAM SIZE®			I M	YIMIIM DECK	REAM SDAN	L LENGTH ^{b,c,d} , D			1000	10 4 4.0	
BEAW OF EOILS	1-2x6	4-2	3-11	3-7	3-4	3-0	2-10	2-9	2-6	2-4	2-3	
	1-2x8	5-4	4-11	4-8	4-3	3-10	3-8	3-6	3-3	3-0	2-10	
	1-2x10	6-2	5-10	5-5	5-1	4-6	4-4	4-2	3-10	3-7	3-4	
	1-2x12	7-4	6-11	6-5	6-0	5-4	5-1	4-11	4-6	4-3	4-0	
	2-2x6	6-3	5-9	5-4	5-0	4-6	4-3	4-1	3-9	3-6	3-4	
	2-2x8	7-10	7-4	6-10	6-4	5-8	5-5	5-2	4-10	4-6	4-3	
Southern pine	2-2x10	9-6	8-9	8-2	7-7	6-9	6-5	6-2	5-8	5-4	5-0	
	2-2x12	10-11	10-3	9-7	8-11	8-0	7-7	7-3	6-9	6-3	5-11	
	3-2x6	7-4	7-0	6-7	6-3	5-7	5-4	5-1	4-9	4-5	4-2	
	3-2x8	9-10	9-3	8-7	8-0	7-2	6-10	6-6	6-0	5-8	5-4	
	3-2x10	11-7	10-11	10-2	9-6	8-6	8-1	7-9	7-2	6-8	6-4	
	3-2x12	13-9	12-11	12-0	11-2	10-0	9-6	9-1	8-5	7-11	7-5	
	1-2x6	3-8	3-5	3-1	2-10	2-5	2-3	2-2	2-0	1-10	1-9	
	1-2x8	4-10	4-7	4-1	3-8	3-2	3-0	2-10	2-7	2-5	2-4	
	1-2x10	6-1	5-8	5-2	4-9	4-1	3-10	3-8	3-4	3-1	2-11	
	1-2x12	7-0	6-7	6-1	5-8	5-0	4-9	4-6	4-1	3-10	3-7	
	2-2x6	5-6	5-2	4-10	4-6	4-0	3-8	3-5	3-1	2-10	2-7	
Douglas fir-larch,	2-2x8	7-4	6-11	6-5	6-0	5-3	4-11	4-7	4-1	3-8	3-5	
Hem-fir, Spruce-pine-fir	2-2x10	8-11	8-5	7-10	7-4	6-6	6-2	5-10	5-2	4-9	4-5	
oprado pino in	2-2x12	10-6	9-10	9-2	8-6	7-7	7-3	6-11	6-4	5-9	5-4	
	3-2x6	6-11	6-6	6-0	5-7	5-0	4-9	4-7	4-2	3-9	3-5	
	3-2x8	9-3	8-8	8-1	7-6	6-8	6-4	6-1	5-6	5-0	4-7	
	3-2x10	11-3	10-7	9-10	9-2	8-2	7-10	7-6	6-11	6-4	5-10	
	3-2x12	13-2	12-4	11-6	10-8	9-7	9-2	8-9	8-1	7-7	7-1	
	1-2x6	3-9	3-6	3-2	2-11	2-6	2-4	2-3	2-0	1-11	1-9	
	1-2x8	4-10	4-6	4-2	3-10	3-3	3-1	2-11	2-8	2-6	2-4	
	1-2x10	5-10	5-6	5-1	4-9	4-2	3-11	3-9	3-5	3-2	3-0	
	1-2x12	6-9	6-4	5-11	5-6	4-11	4-8	4-6	4-2	3-11	3-8	
Redwood, Western	2-2x6	5-7	5-3	4-11	4-7	4-1	3-9	3-6	3-2	2-11	2-8	
cedars, Ponderosa	2-2x8	7-1	6-8	6-2	5-9	5-2	4-11	4-8	4-2	3-10	3-6	
pine, Red pine	2-2x10	8-8	8-2	7-7	7-1	6-4	6-0	5-9	5-4	4-10	4-6	
	2-2x12	10-0	9-5	8-9	8-2	7-4	7-0	6-8	6-2	5-9	5-5	
	3-2x6	6-8	6-4	6-0	5-8	5-1	4-10	4-8	4-3	3-10	3-6	
	3-2x8	8-10	8-4	7-9	7-3	6-5	6-2	5-11	5-5	5-1	4-8	
	3-2x10	10-10	10-2	9-6	8-10	7-11	7-6	7-2	6-8	6-3	5-11	
a Na O grada ar h	3-2x12	12-7	11-10	11-0	10-3	9-2	8-9	8-4	7-9	7-3	6-10	

- a. No. 2 grade or better.
- a. No. 2 grade of better.

 b. Interpolation is only allowed for conditions with zero Deck Joist Cantilever Length, DJCL. Extrapolation is not allowed.
 c. For deck beams supporting a single span of joists with or without joist cantilever.
 d. Deck Beam Cantilever Lengths, DBCL, are limited to the actual Deck Beam Span Length, DBSL, divided by 4 (DBSL/4).
 e. Beam depth shall be equal to or greater than the depth of intersecting joist for a flush beam connection.

Maximum Deck Beam Span Lengths For Ground Snow Loads≤ 70 PSF (from ORSC Table R507.5(4))



Department of Consumer and Business Services

EXTERIOR DECK 2023 ORSC

PERMIT-READY PLAN

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> Tables Sheet

A DECKING [R507.7] (Sheet S16) Material: □preservative-treated □naturally durable (e.g. cedar) □plastic composite Nominal Size: □2-inch-thick wood □5/4-in-thick wood □plastic composite (attach report) Orientation: □perpendicular to joists □diagonal to joists B JOISTS [R507.6] (Sheets S18-19) Species: □2x6 □2x8 □2x10 □2x12 Spacing: □12 in. □16 in. □24 in. Deck Joist Span Length, DJSL (Sheet 2):ftin. Deck Joist Cantilever Length, DJCL (Sheet 2):ftin. C BEAMS [R507.5] (Sheets S24-27) Species: □2x6 □2x8 □2x10 □2x12 Species: □2x6 □2x8 □2x12 Species: □2x6 □2x8 □2x1	CLIMATIC DESIGN CRITERIA The permit applicant shall obtain a site-specific summary report from the Oregon Design Criteria Hub and attach it to this permit-ready plan. The Oregon Design Criteria Hub can be accessed here: https://www.oregon.gov/bcd/codes-stand/Pages/design-criteria.aspx. The summary report provides the ground snow load, frost line depth, and weathering and decay potential needed to check the climatic design criteria boxes below.	BCD Building Codes Division Department of Consumer and Business Service
Plies: □1 □2 □3 Size: □2x6 □2x8 □2x10 □2x12 □x_ (subject to review) Deck Beam Span Length, DBSL (Sheet 3):ftin. Deck Beam Cantilever Length, DBCL (Sheet 3):ftin.	GROUND SNOW LOAD (psf) [R301.2]: □≤ 40 □≤ 50 □≤ 60 □≤ 70 FROST LINE DEPTH (inches) [R301.2] □12 □18 □24	CK
D POSTS [R507.4] (Sheets S20-S21) Species: Height: ft in. End posts & footings tributary area = (DJSL/2 + DJCL)(DBSL/2 + DBCL): ft.² End posts size: □4x4 □4x6 □6x6 □8x8 Mid posts & footings tributary area = (DJSL/2 + DJCL)(DBSL): ft.² Mid posts size: □4x4 □4x6 □6x6 □8x8	WEATHERING POTENTIAL [R301.2] □moderate (use 3,000 psi min concrete) □severe (use 3,500 psi min concrete) DECAY POTENTIAL [R301.2] □slight □moderate	PERMIT-READY PLAN EXTERIOR DEC
E FOOTINGS [R507.3] (Sheets S22-S23 using same tributary area as supported post) End footings size:in.	GUARD SYSTEM [R507.10] □details 1-3/S05 & 1/S06 □code-compliant alternate system (attach details/report)	EX
	STAIRWAY [R311.7] □not provided/not applicable (N/A) □cut stringers - using sheets S7-S11 (provide project-specific info on sheet S8)	REVISIONS NO. DATI
G LATERAL LOAD CONNECTION [R507.9.2] □(4) 750 pound hold-down tension devices (detail 1/S4) □(2) 1,500 pound hold-down tension devices (detail 2/S6) □code-compliant alternate (attach details/report)	□solid stringers - using sheets S7, S12-S15 (provide project-specific info on sheet S12) □code-compliant alternate system (attach details/report)	
NOTE: THE PERMIT APPLICANT SHALL PROVIDE THEIR PROJECT-SPECIFIC PRES APPLICABLE BOXES AND ENTERING THE APPROPRIATE INFORMATION ABOVE Project-Specific Design Parameters		Project-Specifi Design Parameters Sheet