



**MASSILLON BUILDING DEPARTMENT**  
**ONE JAMES DUNCAN PLAZA, MASSILLON, OH 44646**  
**PHONE 330.830.1724 | FAX 330.830.1782**  
**www.massillonohio.gov**

## **RESIDENTIAL DECK INFORMATION & INSTRUCTIONS**

### 3 INSPECTION REQUIRED

- Post Holes
- Framing
- Final

### PLANS REQUIRED

- Fill out attached sheets 1 through 4
- Provide any additional plan you have

### SHEET 1 - BUILDING PERMIT APPLICATION

- Fill out highlighted areas

### SHEET 2 - PLOT SITE PLAN

- Show property lines
- Show set backs
- Show residential house, garage, all out building in proper locations and all dimension to property lines

### SHEET 3 - POST HOLE FOOTER PLAN

- Show all post hole locations and dimensions Footer

Plan Items that must be shown:

#### **Footers for decks not exceeding 72" in height**

1. Show all post hole locations and dimensions
2. Hole diameter to be 12" throughout
3. Minimum depth of hole must be 36"
4. 8" of concrete placed in bottom of hole
5. Backfill around 4x4 posts with either compacted earth or poured concrete

#### **Footers for decks exceeding 72" in height**

1. Show all post hole locations and dimension
2. Hole diameter to be 18" throughout
3. Minimum depth of hole must be 42"
4. 8" of concrete placed in bottom of hole. 6x6 post MUST be set in concrete.

### SHEET 4 - FRAMING PLAN

Items that must be shown:

1. Ledger board not allowed to be attached to brick veneer or hollow masonry walls
2. Call before floor boards are installed



**CITY OF MASSILLON, OHIO  
APPLICATION FOR BUILDING PERMIT**

**SHEET 1**

DATE \_\_\_\_\_

**TO THE BUILDING DEPARTMENT:**

APPLICATION IS HEREBY MADE FOR PERMIT TO REPAIR/REMODEL/ERECT/RAZE A STRUCTURE AS HEREIN DESCRIBED: THE ACCEPTANCE OF WHICH SHALL CONSTITUTE AN AGREEMENT ON OWNER'S PART TO ABIDE BY ALL CONDITIONS HEREIN CONTAINED, AND TO COMPLY WITH ALL ORDINANCES OF THE CITY OF MASSILLON AND THE LAWS OF THE STATE OF OHIO RELATING TO THE WORK TO BE DONE HEREUNDER:

<b>OWNER</b> _____	<b>ADDRESS</b> _____ <b>CITY/STATE/ZIP</b> _____	<b>PHONE</b> _____ <b>EMAIL</b> _____
<b>CONTRACTOR</b> _____	<b>ADDRESS</b> _____ <b>CITY/STATE/ZIP</b> _____	<b>PHONE</b> _____ <b>EMAIL</b> _____

ELEC. CONTRACTOR _____ PHONE _____	PLUMB. CONTRACTOR _____ PHONE _____	HEATING CONTRACTOR _____ PHONE _____
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**JOB SITE LOCATION AND DESCRIPTION OF BUILDING AND PROPERTY:**

**NUMBER AND STREET** \_\_\_\_\_  
 \_\_\_\_\_ SIDE OF STREET    SUBLOT NO. \_\_\_\_\_    ALLOTMENT \_\_\_\_\_

LOT } \_\_\_\_\_ FT. FRONT \_\_\_\_\_ FT. DEEP ON THE \_\_\_\_\_ SIDE  
 BEING } \_\_\_\_\_ FT. REAR \_\_\_\_\_ FT. DEEP ON THE \_\_\_\_\_ SIDE

NUMBER OF STORIES \_\_\_\_\_ AND BASEMENT \_\_\_\_\_    **ESTIMATED COST OF JOB** \_\_\_\_\_

SIZE OF BUILDING: **WIDTH** \_\_\_\_\_    **DEPTH** \_\_\_\_\_    **TOTAL HEIGHT** \_\_\_\_\_

TYPE OF CONSTRUCTION:     FRAME     COMPOSITE     MILL     SLOW BURNING     FIRE PROOF

SQ. FT. OF CONTENTS \_\_\_\_\_    HOW IS BUILDING TO BE OCCUPIED? \_\_\_\_\_    CLASS OF BLDG \_\_\_\_\_

IS STREET CURB IN TO ESTABLISH GRADE IN FRONT OF BUILDING? \_\_\_\_\_    BLDG GRADE NECESSARY \_\_\_\_\_

**PERMIT FEE COST SCHEDULE:**

FOOTER (\$30 EACH)	
FOUNDATION (\$30 EACH)	
ROUGH(S) (\$30 EACH)	
ADD'L INSPECTIONS (\$30 EACH)	
PLAN REVIEW	
PENALTY	
\$50 BASE PERMIT FEE (INCLUDES FINAL INSP.)	
\$5.00 PER THOUSAND OF ESTIMATED COST OF CONSTRUCTION (UP TO \$100,000)	
\$500 ABOVE +PLUS \$1.00 PER THOUSAND OF ESTIMATED COST OF CONSTRUCTION (OVER \$100,000)	
SUBTOTAL	
1% RESIDENTIAL ASSESSMENT FEE	
3% COMMERCIAL ASSESSMENT FEE	
<b>TOTAL PERMIT FEE</b>	

**DETAILED DESCRIPTION OF WORK BEING DONE:**

\_\_\_\_\_

\_\_\_\_\_

THE APPLICANT, AGENT, OWNER OF THIS BUILDING AND THE UNDERSIGNED AGREES: (1) TO CONFORM TO APPLICABLE LAWS OF THE CITY OF MASSILLON AND STATE OF OHIO. (2) IS RESPONSIBLE TO VERIFY THAT THE JOB LOCATION IS WITHIN THE CITY LIMITS. (3) NO REFUND WILL BE ISSUED. (4) THE ADDRESS IS CORRECT. (5) IS RESPONSIBLE FOR MAKING ARRANGEMENTS FOR ALL INSPECTIONS. (6) OWNER OR CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE SITE AT LEAST FORTY-EIGHT HOURS BUT NOT MORE THAN TEN WORKING DAYS BEFORE COMMENCING EXCAVATION (ORC 3781.28).

**SIGNATURE OF APPLICANT** \_\_\_\_\_

**FOR OFFICE USE ONLY:**

**BUILDING PERMIT**

YOU ARE HEREBY GRANTED PERMISSION TO:     REPAIR     REMODEL     ERECT     RAZE

THE STRUCTURE AT THE ABOVE LISTED JOB SITE LOCATION IN THE CITY OF MASSILLON, OHIO, IN ACCORDANCE WITH YOUR APPLICATION ON FILE IN THIS DEPARTMENT, SAID STRUCTURE TO BE COMPLETED WITHIN ONE YEAR. UNTIL THAT TIME YOU HAVE PERMISSION TO OCCUPY ONE-THIRD OF THE STREET IN FRONT OF SAID LOTS. IF THE SIDEWALK IS OBSTRUCTED, A TEMPORARY SIDEWALK, FOUR FEET IN WIDTH AT LEAST, AS HIGH AS THE CURB LINE, MUST BE CONSTRUCTED AROUND THE OBSTRUCTION AND THE SIDE TOWARDS THE STREET TO BE TIGHTLY BOARDED UP TO 3 FEET IN HEIGHT ABOVE THE WALK, BUT AT ALL TIMES, YOU ARE TO COMPLY WITH THE ORDINANCES OF THE CITY OF MASSILLON AND THE LAWS OF THE STATE OF OHIO RELATIVE TO THE CONSTRUCTION, REMODELING AND ERECTING OF BUILDINGS. AND IN ADDITION THERETO, THE RECIPIENT OF THIS PERMIT SHALL INDEMNIFY AND SAVE HARMLESS THE CITY OF MASSILLON OR ANY PRIVATE INDIVIDUAL OR CORPORATION THAT MAY BE DAMAGED THROUGH THE CONSTRUCTION, REMODELING, ERECTION OR RAZING OF THE STRUCTURE.

\_\_\_\_\_, CHIEF BUILDING OFFICIAL

\_\_\_\_\_, DATE

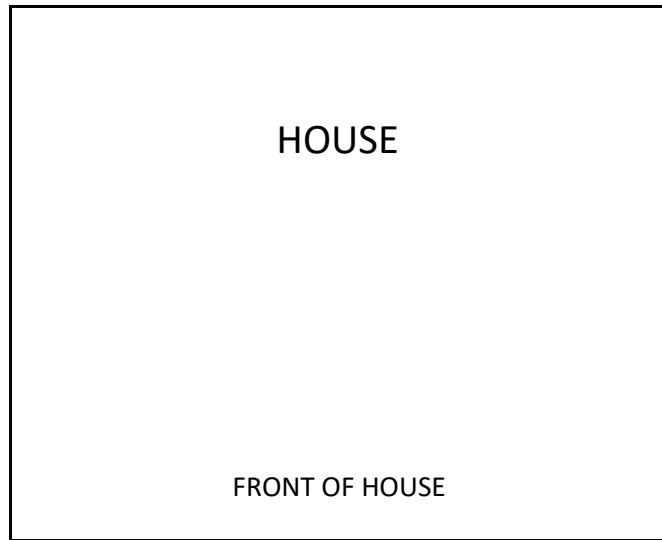

# SHEET 2

## PLOT PLAN

- SHOW DECK LOCATION
- SHOW ALL DIMENSIONS TO PROPERTY LINES

P  
R  
O  
P  
E  
R  
T  
Y

P  
R  
O  
P  
E  
R  
T  
Y



STREET NAME

# SHEET 3

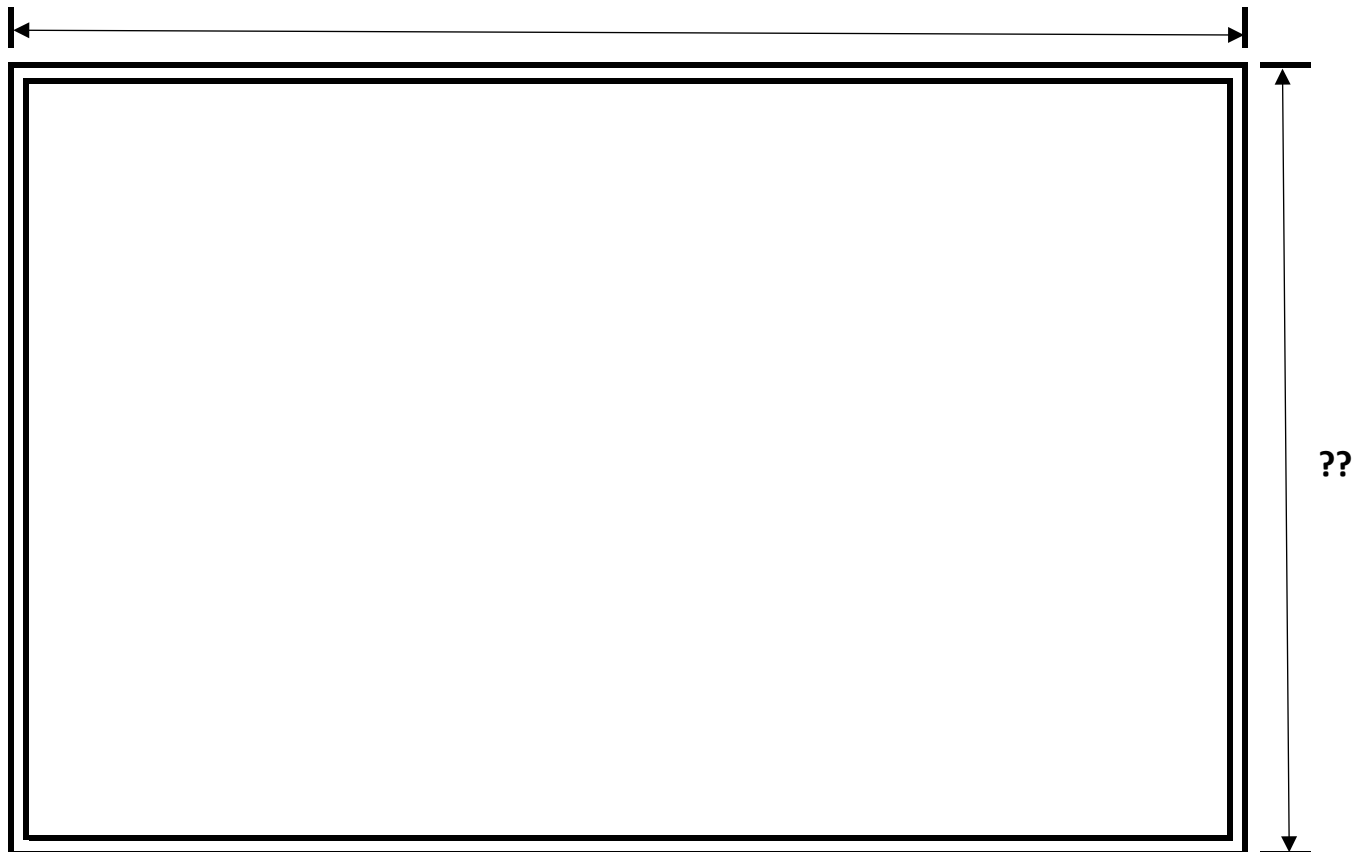
## POST HOLE LOCATIONS

- THIS IS YOUR FIRST INSPECTION
- PROVIDE ALL POST HOLE LOCATIONS AND DIMENSIONS
- PROVIDE POST TO POST AND OVERALL DEMENSIONS
- SHOW DISTANCE BETWEEN THE POST HOLES
- ALL POST HOLES ARE TO BE EXCAVATED WITH ALL LOSSE DEBRIS AND WATER CLEANED OUT BEFORE CONCRETE FOR INSPECTION

SHOW LOCATION OF HOUSE

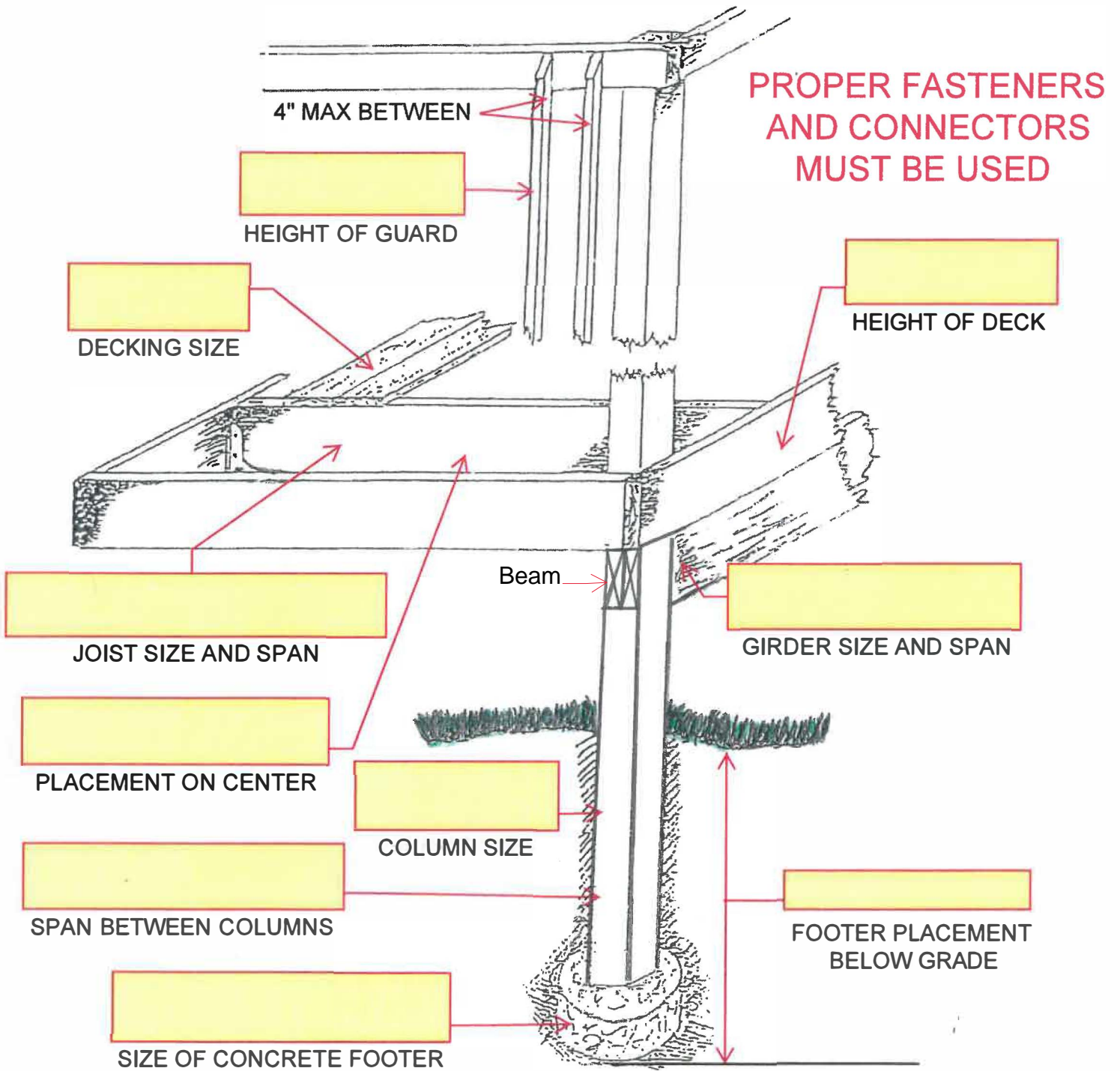
SHOW DIRECTION OF FLOOR JOISTS

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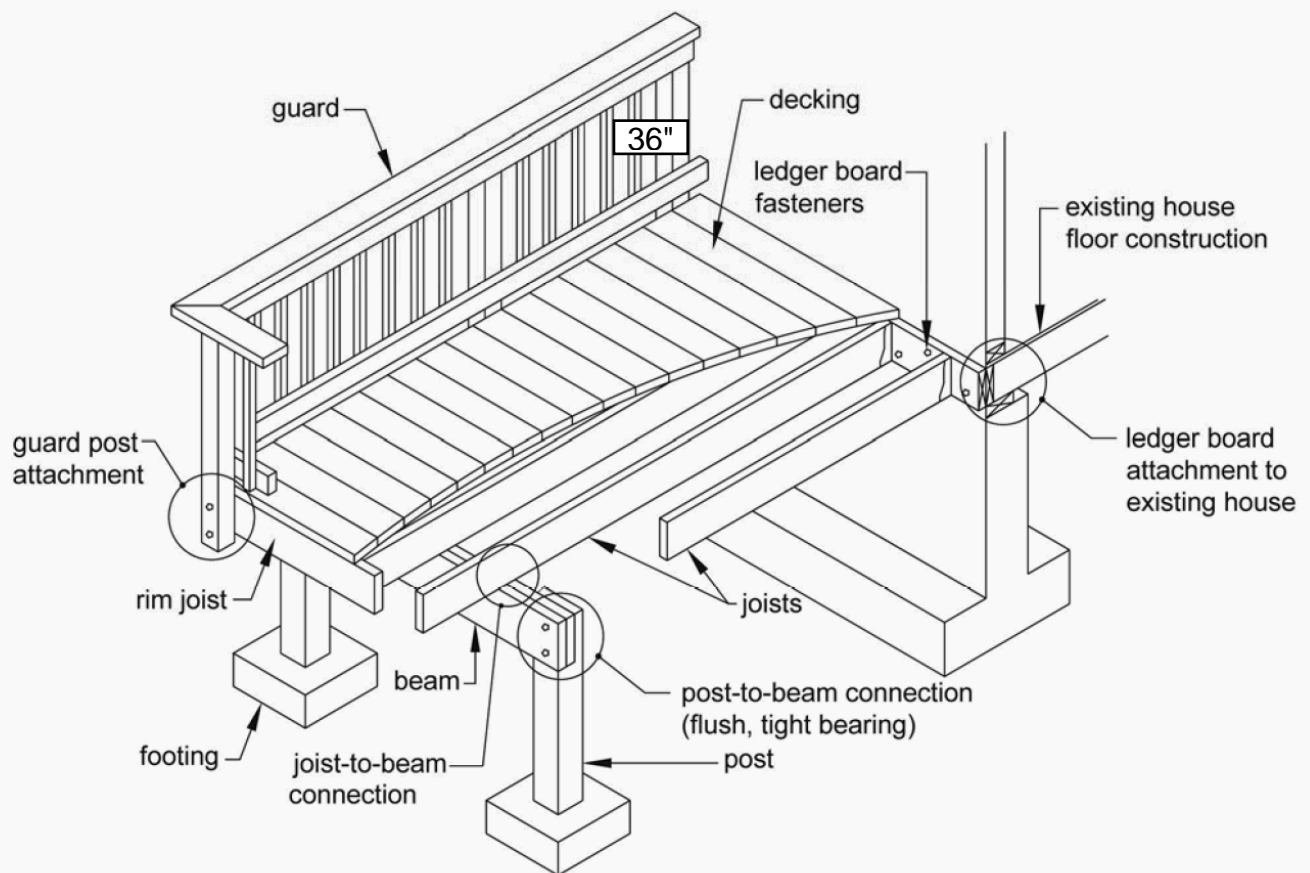
# SHEET 4

(PLEASE COMPLETE HIGHLIGHTED SECTIONS)



DECK CROSS SECTION

# RESIDENTIAL DECK SAMPLE DRAWING



# GENERAL DECK REQUIREMENTS CITY OF MASSILLON, OHIO

## FLOOR JOIST INFORMATION

40 LBS/SQ.FT. LIVE LOAD; MODULUS OF ELASTICITY "E"  
1,000,000 PSI = 1.1; DESIGN VALUE IN BENDING "B"  
2 X 6=1310    2 X 8=1210    2 X 10=1105    2 X 12=1005  
NO 2 x 4 JOISTS ALLOWED

## LEDGER BOLT SIZE AND SPACING

MINIMUM 8" LEDGER  
BOLT 2" FROM EDGE

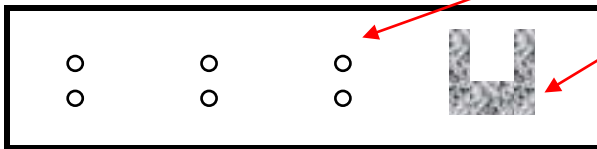


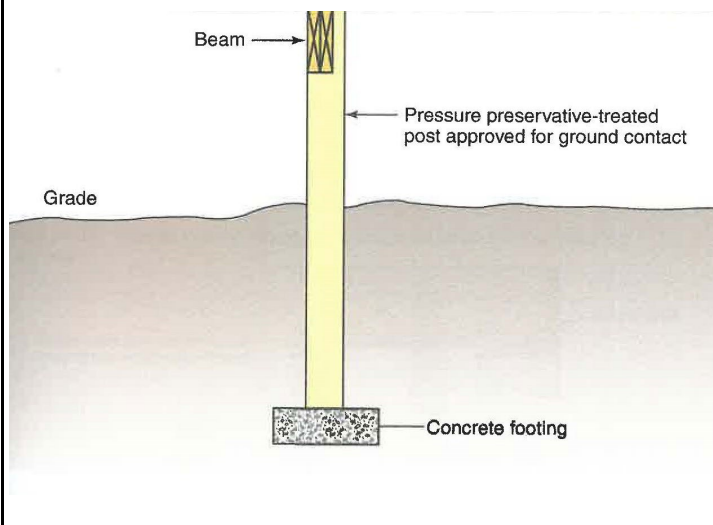
TABLE RCO 502.2.2.1  
1/2" PAIRS OF LAG BOLTS 16" OR 24" O.C.  
(DEPENDING ON JOIST SPAN)  
SPANS OVER 10' - 16" O.C.

USE CORRECTLY SIZED AND APPROVED JOIST HANGERS AND  
FILL EVERY HOLE WITH APPROVED JOIST HANGER NAILS

**PROPER FASTENERS  
AND CONNECTORS  
MUST BE USED**

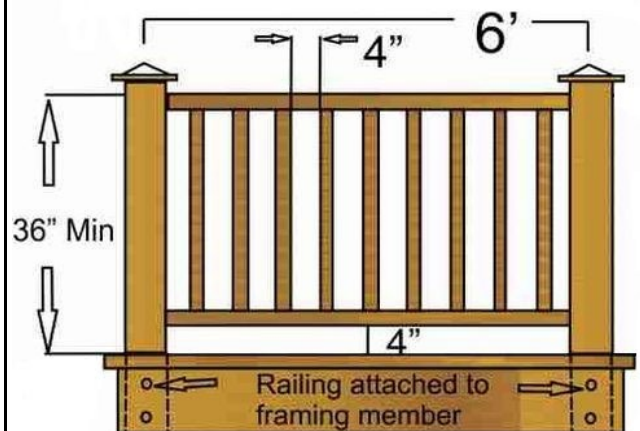
## POST FOUNDATION EXAMPLE

DIG HOLES TO A MINIMUM DEPTH OF:  
36" FOR DECKS NOT EXCEEDING 72" IN HEIGHT  
42" FOR DECKS EXCEEDING 72" IN HEIGHT  
4 X 4 POSTS = 12" DIAMETER HOLE  
6 X 6 POSTS = 16" DIAMETER HOLE  
8" CONCRETE FOOTING  
DOUBLE 2 X 10 BEAM  
1/2" OR EQUAL THRU BOLTS EACH POST/BEAM  
POST SUPPORTING BEAM SPACE MAXIMUM OF 8' O.C.



## GUARDRAIL INFORMATION

GUARDRAIL: DECKS 30" OR MORE ABOVE GRADE OR  
OPEN SIDES OF STAIRS 30" ABOVE GRADE



4" MAXIMUM SPACE BETWEEN BALUSTERS  
36" MINIMUM HEIGHT (34" FOR STAIR RAILS)  
4 STEPS REQUIRE HAND RAILS

## INSPECTIONS:

- 1) CALL FOR HOLE INSPECTION BEFORE CONCRETE
- 2) CALL FOR FRAMING INSPECTION BEFORE DECKING
- 3) CALL FOR FINAL INSPECTION WHEN COMPLETE

## SPAN TABLES

RCO TABLE 502.3.1(2)

JOIST SPAN TABLE

JOIST SPACING	MAX CLEAR SPAN
2X6 @ 16" ON CENTER	9'-9"
2X6 @ 24" ON CENTER	8'-6"
2X8 @ 16" ON CENTER	12'-10"
2X8 @ 24" ON CENTER	11'
2X10 @ 16" ON CENTER	16'1"
2X10 @ 24" ON CENTER	13'1"
2X12 @ 16" ON CENTER	18'10"
2X12 @ 24" ON CENTER	15'5"

RCO TABLE 502 5.1

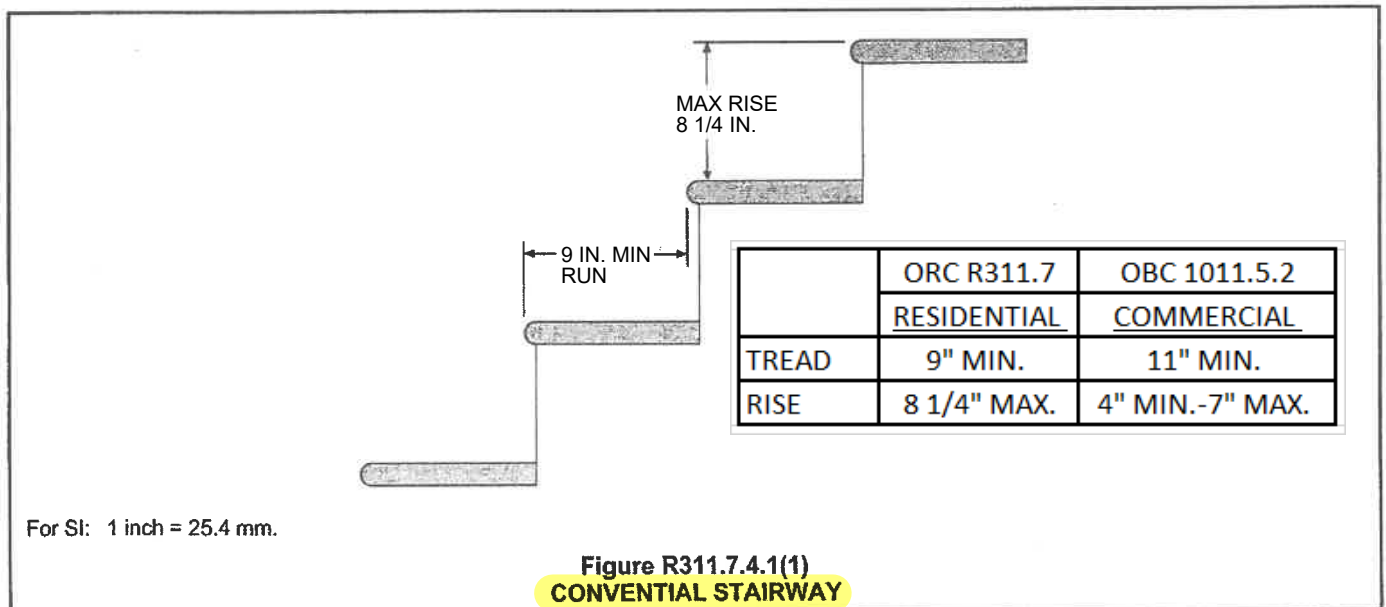
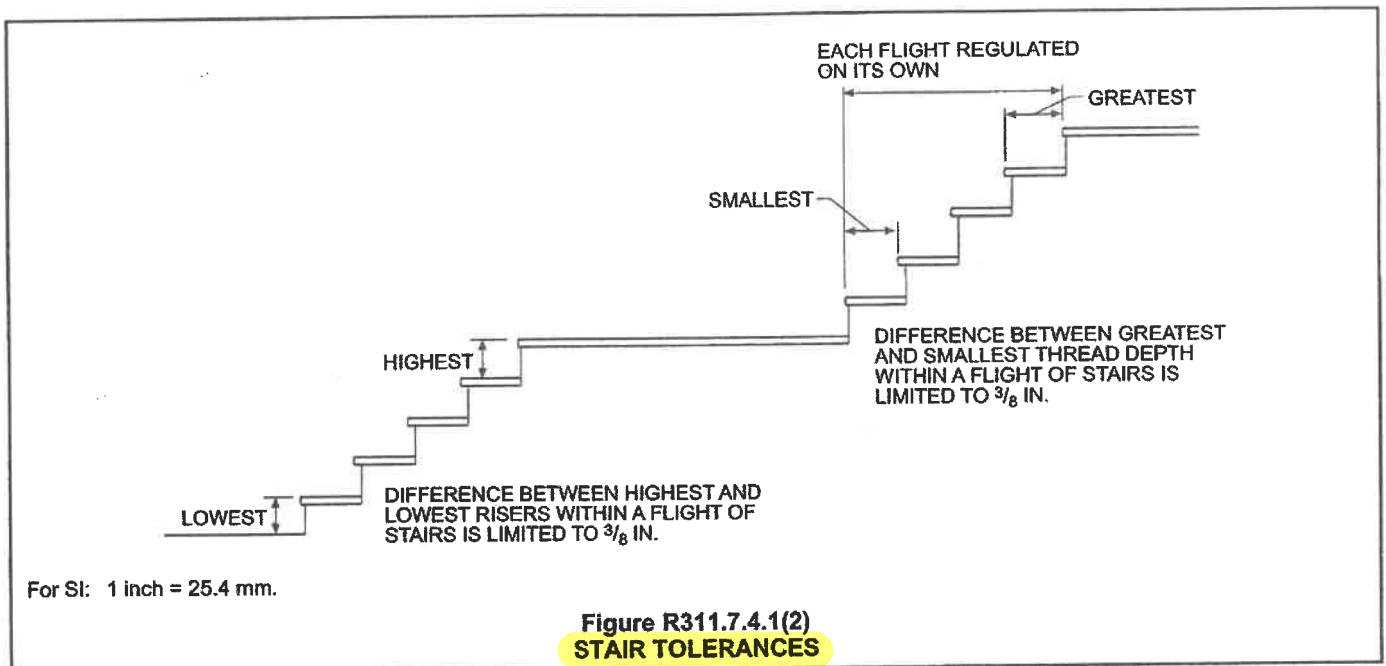
BEAM GIRDER SPAN

BEAM – GIRDERS	MAY CLEAR SPAN
(2) 2"x6"	5'5"
(2) 2"x8"	6'x10"
(3) 2"x8"	8'4"
(4) 2"x8"	9'2"
(2) 2"x10"	8'5"
(3) 2"x10"	10'6"
(4) 2"x10"	11'8"
(2) 2"x12"	9'9"
(3) 2"x12"	10'6"
(4) 2"x12"	11'8"

# STAIRWAYS

**R311.7.4.1 Riser height.** The maximum riser height shall be 8 ¼ inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

**R311.7.4.2 Tread depth.** The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).



**TABLE 502.3.1(2)  
FLOOR JOIST SPANS FOR COMMON LUMBER SPECIES  
(Residential living areas, live load = 40 psf, L/Δ = 360)<sup>a</sup>**

JOIST SPACING (inches)	SPECIES AND GRADE	DEAD LOAD = 10 psf				DEAD LOAD = 20 psf				
		2x6	2x8	2x10	2x12	2x6	2x8	2x10	2x12	
		Maximum floor joist spans								
		(ft - in.)	(ft - in.)	(ft - in.)	(ft - in.)	(ft - in.)	(ft - in.)	(ft - in.)	(ft - in.)	
12	Douglas fir-larch	SS	11-4	15-0	19-1	23-3	11-4	15-0	19-1	23-3
	Douglas fir-larch	#1	10-11	14-5	18-5	22-0	10-11	14-2	17-4	20-1
	Douglas fir-larch	#2	10-9	14-2	17-9	20-7	10-6	13-3	16-3	18-10
	Douglas fir-larch	#3	8-8	11-0	13-5	15-7	7-11	10-0	12-3	14-3
	Hem-fir	SS	10-9	14-2	18-0	21-11	10-9	14-2	18-0	21-11
	Hem-fir	#1	10-6	13-10	17-8	21-6	10-6	13-10	16-11	19-7
	Hem-fir	#2	10-0	13-2	16-10	20-4	10-0	13-1	16-0	18-6
	Hem-fir	#3	8-8	11-0	13-5	15-7	7-11	10-0	12-3	14-3
	Southern pine	SS	11-2	14-8	18-9	22-10	11-2	14-8	18-9	22-10
	Southern pine	#1	10-11	14-5	18-5	22-5	10-11	14-5	18-5	22-5
	Southern pine	#2	10-9	14-2	18-0	21-9	10-9	14-2	16-11	19-10
	Southern pine	#3	9-4	11-11	14-0	16-8	8-6	10-10	12-10	15-3
	Spruce-pine-fir	SS	10-6	13-10	17-8	21-6	10-6	13-10	17-8	21-6
	Spruce-pine-fir	#1	10-3	13-6	17-3	20-7	10-3	13-3	16-3	18-10
	Spruce-pine-fir	#2	10-3	13-6	17-3	20-7	10-3	13-3	16-3	18-10
Spruce-pine-fir	#3	8-8	11-0	13-5	15-7	7-11	10-0	12-3	14-3	
16	Douglas fir-larch	SS	10-4	13-7	17-4	21-1	10-4	13-7	17-4	21-0
	Douglas fir-larch	#1	9-11	13-1	16-5	19-1	9-8	12-4	15-0	17-5
	Douglas fir-larch	#2	9-9	12-7	15-5	17-10	9-1	11-6	14-1	16-3
	Douglas fir-larch	#3	7-6	9-6	11-8	13-6	6-10	8-8	10-7	12-4
	Hem-fir	SS	9-9	12-10	16-5	19-11	9-9	12-10	16-5	19-11
	Hem-fir	#1	9-6	12-7	16-0	18-7	9-6	12-0	14-8	17-0
	Hem-fir	#2	9-1	12-0	15-2	17-7	8-11	11-4	13-10	16-1
	Hem-fir	#3	7-6	9-6	11-8	13-6	6-10	8-8	10-7	12-4
	Southern pine	SS	10-2	13-4	17-0	20-9	10-2	13-4	17-0	20-9
	Southern pine	#1	9-11	13-1	16-9	20-4	9-11	13-1	16-4	19-6
	Southern pine	#2	9-9	12-10	16-1	18-10	9-6	12-4	14-8	17-2
	Southern pine	#3	8-1	10-3	12-2	14-6	7-4	9-5	11-1	13-2
	Spruce-pine-fir	SS	9-6	12-7	16-0	19-6	9-6	12-7	16-0	19-6
	Spruce-pine-fir	#1	9-4	12-3	15-5	17-10	9-1	11-6	14-1	16-3
	Spruce-pine-fir	#2	9-4	12-3	15-5	17-10	9-1	11-6	14-1	16-3
Spruce-pine-fir	#3	7-6	9-6	11-8	13-6	6-10	8-8	10-7	12-4	
19.2	Douglas fir-larch	SS	9-8	12-10	16-4	19-10	9-8	12-10	16-4	19-2
	Douglas fir-larch	#1	9-4	12-4	15-0	17-5	8-10	11-3	13-8	15-11
	Douglas fir-larch	#2	9-1	11-6	14-1	16-3	8-3	10-6	12-10	14-10
	Douglas fir-larch	#3	6-10	8-8	10-7	12-4	6-3	7-11	9-8	11-3
	Hem-fir	SS	9-2	12-1	15-5	18-9	9-2	12-1	15-5	18-9
	Hem-fir	#1	9-0	11-10	14-8	17-0	8-8	10-11	13-4	15-6
	Hem-fir	#2	8-7	11-3	13-10	16-1	8-2	10-4	12-8	14-8
	Hem-fir	#3	6-10	8-8	10-7	12-4	6-3	7-11	9-8	11-3
	Southern pine	SS	9-6	12-7	16-0	19-6	9-6	12-7	16-0	19-6
	Southern pine	#1	9-4	12-4	15-9	19-2	9-4	12-4	14-11	17-9
	Southern pine	#2	9-2	12-1	14-8	17-2	8-8	11-3	13-5	15-8
	Southern pine	#3	7-4	9-5	11-1	13-2	6-9	8-7	10-1	12-1
	Spruce-pine-fir	SS	9-0	11-10	15-1	18-4	9-0	11-10	15-1	17-9
	Spruce-pine-fir	#	8-9	11-6	14-1	16-3	8-3	10-6	12-10	14-10
	Spruce-pine-fir	#2	8-9	11-6	14-1	16-3	8-3	10-6	12-10	14-10
Spruce-pine-fir	#3	6-10	8-8	10-7	12-4	6-3	7-11	9-8	11-3	
24	Douglas fir-larch	SS	9-0	11-11	15-2	18-5	9-0	11-11	14-9	17-1
	Douglas fir-larch	#1	8-8	11-0	13-5	15-7	7-11	10-0	12-3	14-3
	Douglas fir-larch	#2	8-1	10-3	12-7	14-7	7-5	9-5	11-6	13-4
	Douglas fir-larch	#3	6-2	7-9	9-6	11-0	5-7	7-1	8-8	10-1
	Hem-fir	SS	8-6	11-3	14-4	17-5	8-6	11-3	14-4	16-10 <sup>a</sup>
	Hem-fir	#1	8-4	10-9	13-1	15-2	7-9	9-9	11-11	13-10
	Hem-fir	#2	7-11	10-2	12-5	14-4	7-4	9-3	11-4	13-1
	Hem-fir	#3	6-2	7-9	9-6	11-0	5-7	7-1	8-8	10-1
	Southern pine	SS	8-10	11-8	14-11	18-1	8-10	11-8	14-11	18-1
	Southern pine	#1	8-8	11-5	14-7	17-5	8-8	11-3	13-4	15-11
	Southern pine	#2	8-6	11-0	13-1	15-5	7-9	10-0	12-0	14-0
	Southern pine	#3	6-7	8-5	9-11	11-10	6-0	7-8	9-1	10-9
	Spruce-pine-fir	SS	8-4	11-0	14-0	17-0	8-4	11-0	13-8	15-11
	Spruce-pine-fir	#1	8-1	10-3	12-7	14-7	7-5	9-5	11-6	13-4
	Spruce-pine-fir	#2	8-1	10-3	12-7	14-7	7-5	9-5	11-6	13-4
Spruce-pine-fir	#3	6-2	7-9	9-6	11-0	5-7	7-1	8-8	10-1	

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

Note: Check sources for availability of lumber in lengths greater than 20 feet.

a. End bearing length shall be increased to 2 inches.

b. Dead load limits for townhouses in Seismic Design Category C and all structures in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub>, and D<sub>2</sub> shall be determined in accordance with Section 301.2.2.2.1.

**TABLE 502.5(1)**  
**GIRDER SPANS<sup>a</sup> AND HEADER SPANS<sup>a</sup> FOR EXTERIOR BEARING WALLS**  
 (Maximum spans for Douglas fir-larch, hem-fir, southern pine and spruce-pine-fir<sup>b</sup> and required number of jack studs)

GIRDERS AND HEADERS SUPPORTING	SIZE	GROUND SNOW LOAD (psf) <sup>e</sup>																	
		30						50						70					
		Building width <sup>c</sup> (feet)																	
		20		28		36		20		28		36		20		28		36	
Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>	Span	NJ <sup>d</sup>		
Roof and ceiling	2-2x4	3-6	1	3-2	1	2-10	1	3-2	1	2-9	1	2-6	1	2-10	1	2-6	1	2-3	1
	2-2x6	5-5	1	4-8	1	4-2	1	4-8	1	4-1	1	3-8	2	4-2	1	3-8	2	3-3	2
	2-2x8	6-10	1	5-11	2	5-4	2	5-11	2	5-2	2	4-7	2	5-4	2	4-7	2	4-1	2
	2-2x10	8-5	2	7-3	2	6-6	2	7-3	2	6-3	2	5-7	2	6-6	2	5-7	2	5-0	2
	2-2x12	9-9	2	8-5	2	7-6	2	8-5	2	7-3	2	6-6	2	7-6	2	6-6	2	5-10	3
	3-2x8	8-4	1	7-5	1	6-8	1	7-5	1	6-5	2	5-9	2	6-8	1	5-9	2	5-2	2
	3-2x10	10-6	1	9-1	2	8-2	2	9-1	2	7-10	2	7-0	2	8-2	2	7-0	2	6-4	2
	3-2x12	12-2	2	10-7	2	9-5	2	10-7	2	9-2	2	8-2	2	9-5	2	8-2	2	7-4	2
	4-2x8	9-2	1	8-4	1	7-8	1	8-4	1	7-5	1	6-8	1	7-8	1	6-8	1	5-11	2
	4-2x10	11-8	1	10-6	1	9-5	2	10-6	1	9-1	2	8-2	2	9-5	2	8-2	2	7-3	2
4-2x12	14-1	1	12-2	2	10-11	2	12-2	2	10-7	2	9-5	2	10-11	2	9-5	2	8-5	2	
Roof, ceiling and one center-bearing floor	2-2x4	3-1	1	2-9	1	2-5	1	2-9	1	2-5	1	2-2	1	2-7	1	2-3	1	2-0	1
	2-2x6	4-6	1	4-0	1	3-7	2	4-1	1	3-7	2	3-3	2	3-9	2	3-3	2	2-11	2
	2-2x8	5-9	2	5-0	2	4-6	2	5-2	2	4-6	2	4-1	2	4-9	2	4-2	2	3-9	2
	2-2x10	7-0	2	6-2	2	5-6	2	6-4	2	5-6	2	5-0	2	5-9	2	5-1	2	4-7	3
	2-2x12	8-1	2	7-1	2	6-5	2	7-4	2	6-5	2	5-9	3	6-8	2	5-10	3	5-3	3
	3-2x8	7-2	1	6-3	2	5-8	2	6-5	2	5-8	2	5-1	2	5-11	2	5-2	2	4-8	2
	3-2x10	8-9	2	7-8	2	6-11	2	7-11	2	6-11	2	6-3	2	7-3	2	6-4	2	5-8	2
	3-2x12	10-2	2	8-11	2	8-0	2	9-2	2	8-0	2	7-3	2	8-5	2	7-4	2	6-7	2
	4-2x8	8-1	1	7-3	1	6-7	1	7-5	1	6-6	1	5-11	2	6-10	1	6-0	2	5-5	2
	4-2x10	10-1	1	8-10	2	8-0	2	9-1	2	8-0	2	7-2	2	8-4	2	7-4	2	6-7	2
4-2x12	11-9	2	10-3	2	9-3	2	10-7	2	9-3	2	8-4	2	9-8	2	8-6	2	7-7	2	
Roof, ceiling and one clear span floor	2-2x4	2-8	1	2-4	1	2-1	1	2-7	1	2-3	1	2-0	1	2-5	1	2-1	1	1-10	1
	2-2x6	3-11	1	3-5	2	3-0	2	3-10	2	3-4	2	3-0	2	3-6	2	3-1	2	2-9	2
	2-2x8	5-0	2	4-4	2	3-10	2	4-10	2	4-2	2	3-9	2	4-6	2	3-11	2	3-6	2
	2-2x10	6-1	2	5-3	2	4-8	2	5-11	2	5-1	2	4-7	3	5-6	2	4-9	2	4-3	3
	2-2x12	7-1	2	6-1	3	5-5	3	6-10	2	5-11	3	5-4	3	6-4	2	5-6	3	5-0	3
	3-2x8	6-3	2	5-5	2	4-10	2	6-1	2	5-3	2	4-8	2	5-7	2	4-11	2	4-5	2
	3-2x10	7-7	2	6-7	2	5-11	2	7-5	2	6-5	2	5-9	2	6-10	2	6-0	2	5-4	2
	3-2x12	8-10	2	7-8	2	6-10	2	8-7	2	7-5	2	6-8	2	7-11	2	6-11	2	6-3	2
	4-2x8	7-2	1	6-3	2	5-7	2	7-0	1	6-1	2	5-5	2	6-6	1	5-8	2	5-1	2
	4-2x10	8-9	2	7-7	2	6-10	2	8-7	2	7-5	2	6-7	2	7-11	2	6-11	2	6-2	2
4-2x12	10-2	2	8-10	2	7-11	2	9-11	2	8-7	2	7-8	2	9-2	2	8-0	2	7-2	2	
Roof, ceiling and two center-bearing floors	2-2x4	2-7	1	2-3	1	2-0	1	2-6	1	2-2	1	1-11	1	2-4	1	2-0	1	1-9	1
	2-2x6	3-9	2	3-3	2	2-11	2	3-8	2	3-2	2	2-10	2	3-5	2	3-0	2	2-8	2
	2-2x8	4-9	2	4-2	2	3-9	2	4-7	2	4-0	2	3-8	2	4-4	2	3-9	2	3-5	2
	2-2x10	5-9	2	5-1	2	4-7	3	5-8	2	4-11	2	4-5	3	5-3	2	4-7	3	4-2	3
	2-2x12	6-8	2	5-10	3	5-3	3	6-6	2	5-9	3	5-2	3	6-1	3	5-4	3	4-10	3
	3-2x8	5-11	2	5-2	2	4-8	2	5-9	2	5-1	2	4-7	2	5-5	2	4-9	2	4-3	2
	3-2x10	7-3	2	6-4	2	5-8	2	7-1	2	6-2	2	5-7	2	6-7	2	5-9	2	5-3	2
	3-2x12	8-5	2	7-4	2	6-7	2	8-2	2	7-2	2	6-5	3	7-8	2	6-9	2	6-1	3
	4-2x8	6-10	1	6-0	2	5-5	2	6-8	1	5-10	2	5-3	2	6-3	2	5-6	2	4-11	2
	4-2x10	8-4	2	7-4	2	6-7	2	8-2	2	7-2	2	6-5	2	7-7	2	6-8	2	6-0	2
4-2x12	9-8	2	8-6	2	7-8	2	9-5	2	8-3	2	7-5	2	8-10	2	7-9	2	7-0	2	

(continued)