PLANNING & DEVELOPMENT

600 West Fourth Street Davenport, Iowa 52801 Office: (563) 326-8643 Fax: (563) 326-8257

Email: planning@scottcountyiowa.gov

Deck (uncovered) Construction Permit Application for Unincorporated Scott County



Phone: Phone: Pho					
tyStateZipCityState					
Phone:					
*Please indicate preferred contact for payment, ermit inquiries, and inspections: Owner	Zip				
Please indicate preferred contact for payment, ermit inquiries, and inspections: Owner					
Owner General Contractor Completed Co					
	Final Permit Fee is determined by Planning & Development upon review of this completed application packet. Fee is based on value and adopted fee schedule.				
bb Site Address:StateZi	_Zip				
Proposed Construction Description					

REQUIRED SUBMITTAL CHECKLIST:

Signed & Completed Permit Application

Completed Deck Guide <u>OR</u> Construction Plans

Site Plan (with lot dimensions and setbacks)

Zoning Approval

Floodplain Development Permit (if applicable)

I hereby acknowledge that I have read this application and state that the above is true and correct to the best of my knowledge and belief. I agree to comply with all applicable County Ordinances or City Ordinances and all State Laws regulating Building Construction. If any information provided is incorrect, the building permit may be revoked.

Applicant Signature:

Data	,	1	
Date:	/	. /	

Revised: May 17, 2023

PLANNING & DEVELOPMENT

600 West Fourth Street Davenport, Iowa 52801-1106

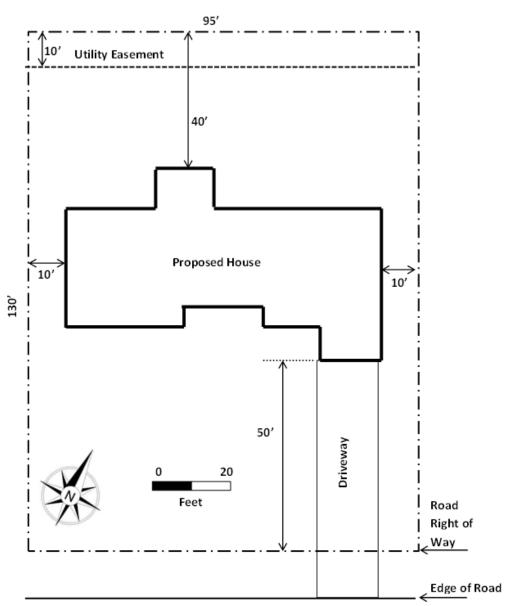
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Timothy Huey, Director

Site Plan Example



Please submit the following information on the site (plot) plan:

- Location of property lines and dimensions of the lot.
- Locations of easements, driveways, and roads.
- Distances between all structures (house, garage, shed, deck) and lot lines measured from the property lines (not curb or sidewalk).
- Draw the site plan to scale and note the scale on plan.
- North Arrow.
- Homeowner's name, subdivision name, and lot number.
- Street address if known.



Building Guide

ILLOWA Chapter of ICC

Single Family Residential Uncovered Deck and Porches



How to use this guide:

This guide was designed to assist the do-it-yourselfer create a construction plan to build a simple deck using conventional construction methods. Non-conventionally constructed decks may require a design professional.

- 1. **Complete this Building Guide** by filling in the blanks on page two and three and indicating which construction details will be used.
- 2. **Provide a Site Plan** showing the dimensions of your project and its relationships to existing buildings or structures, utilities, property lines and easements. In addition to project dimensions, your plot plan must also show other details such as post locations and spacing, joist and beam spans, and any other pertinent information not shown on the section drawing.
- **3. Now you are ready to apply for your building permit.** The majority of permit applications can be processed with little delay. The submitted documents will help determine if the project is in compliance with building codes, zoning ordinances and other applicable laws.
- **4. Inspections.** A footing inspection is required before they can be poured. A framing inspection is required before you lay decking or attach handrails to verify plans are being followed and that proper connections are used. All projects must receive a final inspection in order to verify that your project meets code, is safe to use and to close out the permit. Remember YOU are responsible to get the inspections! If you are unsure during the construction process contact your Department of Building Safety.



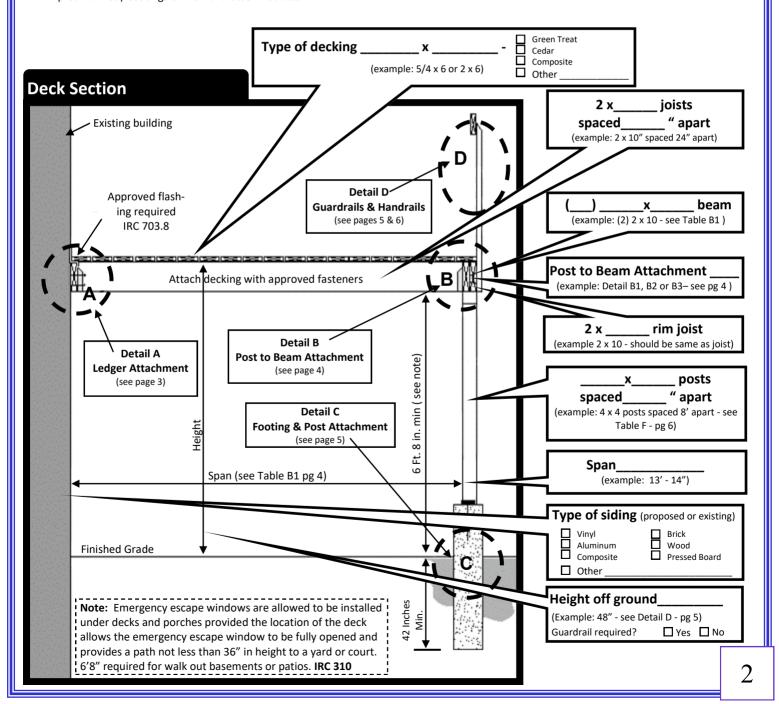
DISCLAIMER: ILLOWA Chapter of the ICC has created this handout to assist with plans submittal under the 2009 International Residential Code, and it is not intended to cover all circumstances. Please check with the Department of Building Safety for additional requirements.

Directions:

- 1. Fill in the blanks on pages 2 and 3 with dimensions and materials which will be used to build the structure. Please print legibly.
- 2. Choose which post to beam detail from page 4 that will be used.

Minimum Requirements:

- All lumber shall be naturally durable wood or pressure treated.
- All screws, bolts, and nails for use with preservative treated wood shall be hot-dipped galvanized, stainless steel, silicon bronze or copper. Fasteners to be hot-dipped galvanized shall meet the requirements of ASTM A 153, Standard Specification for Zinc Coating (Hot- Dip) on Iron and Steel Hardware, Class D for fasteners 3/8" in diameter and smaller or Class C for fasteners with diameters over 3/8". IRC 317.3.1
- All hardware (joist hangers, cast-in-place post anchors, etc.) shall be galvanized or shall be stainless steel. Hardware to be hot-dipped prior to
 fabrication shall meet ASTM A 653, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by
 the Hot-Dip Process, G-185 coating. Hardware to be hot-dipped galvanized after fabrication shall meet ASTM A123, Specification for Zinc (HotDip Galvanized) Coatings on Iron and Steel Products.



Detail A

DII	RECTIONS:			1/2 Lags		
1.	Identify Ledger Size 2 x X	(exampl	e 2' x 10 " X 10')	1/2 Bolts 1/2 Bolts w washe	ers	
2.	Identify # of fasteners needed	Size	X	_		O.C.
	(example two 1/2" X 6" lags (@ 18" O.C. See	Table A1)*If using faste	eners other than 1/2 la	g or bolts, provide manuf	acturer's specs.
3.	Location of lateral load connections		(see Figure A2)		
	TE: This is for attached decks only. Where positive II be self-supporting (502.2.2).	e connection t	o the primary buildin	g structure cannot b	e verified during inspe	ction, decks

Table A1

IRC TABLE 502.2.2.1

FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER AND A 2-INCH NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST C,F,G (Deck live load = 40 psf, deck dead load = 10 psf)

			(= p,			p,		
FLOOR 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'	
Connection details	On-center spacing of fasteners ^{d,e}							
1/2 inc diameter lag screw with 15/32 inch maximum sheathing ^a	30	23	18	15	13	11	10	
1/2 inch diameter bolt with 15/32 inch maximum sheathing	36	36	34	29	24	21	19	
1/2 inch diameter bolt with 15/32 inch maximum sheathing and 1/2 inch stacked washers b,h	36	36	29	24	21	18	16	

Figure A1

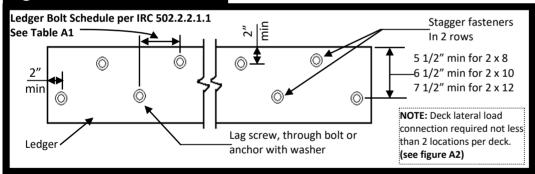
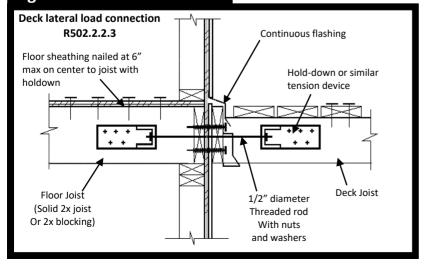
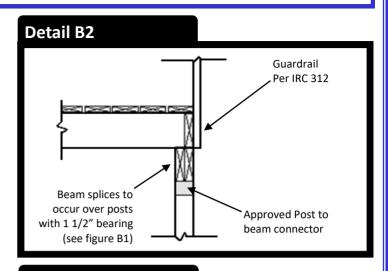


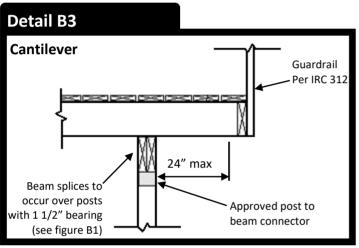
Figure A2



- The tip of the lag screw shall fully extend beyond the inside face of the band joist.
- The maximum gap between the face of the ledger board and face of the band joist.
- Ledgers shall be flashed to prevent water from contacting the house band joist.
- d. Lag screws and bolts shall be staggered in accordance with the diagram above.
- e. Deck ledger shall be minimum 2 x 8 pressure-preservative-treated No. 2 grade lumber, or other approved materials by standard engineering practice.
- f. When solid-sawn preservativetreated deck ledgers are attached to a minimum 1 inch thick engineered wood product (structural composite lumber, LVL or wood structural panel band joist), the ledger attachment shall be designed in accordance with accepted engineering practice.
- g. A minimum 1 x 9 1/2 Douglas Fir LVL rimboard shall be permitted in lieu of the 2-inch nominal band joist.
- h. Wood structural panel sheathing, gypsum board sheathing or foam sheathing not exceeding 1 inch thickness shall be permitted. The maximum distance between the face of the ledger board and the face of the band joist shall be 1 inch.

Beam splices to occur over posts with 1 1/2" bearing (see figure B1) Approved metal joist hanger Approved post to beam connector





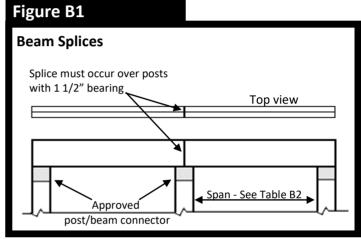


Table B1 MAXIMUM FLOOR JOIST SPANS a,b										
IRC Table 502.3.1(2)										
Species	Floor Joist Spacing On Cen								Ci	Center
	Size	12"	16"	19.2"	24"					
Southern Yellow Pine	2 x 8	14'2"	12'10"	12'1"	11'0"					
	2 x 10	18'0"	16'1"	14'8"	13'1"					
	2 x 12	21′9″	18'10"	17'2"	15'5"					
Douglas	2 x 8	13′6″	12'3"	11'6"	10'3"					
Fir- Larch, Hem-Fir, SPF	2 x 10	17′3″	15'5"	14′1″	12'7"					
	2 x 12	20′7″	17′10″	16′3″	14′7″					
NOTES: a. # 2 grade or better, wet service conditions b. 40 psf										

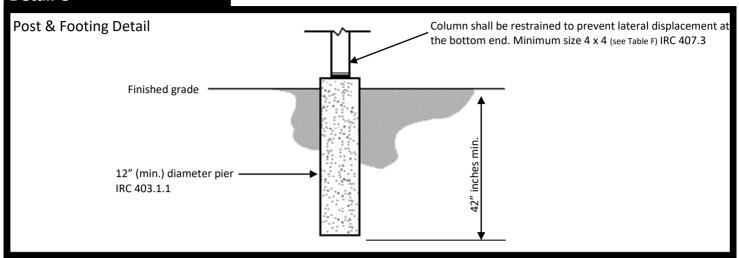
live load, 10 psf dead load

Table B2*	DECK BEAM SPANS ^{a,b,c}								
Lumber		Floor Joist Spans Less Than or Equal to							
Species	Joist Size	6'	8'	10'	12'	14'	16'	18'	
	2 - 2 x 6	7′1″	6'2"	5'6"	5′0″	4'8"	4'4"	4'1"	
	2 - 2 x 8	9'2"	7'11"	7′1″	6'6"	6'0"	5′7″	5′3″	
Southern Yellow Pine	2 - 2 x 10	11'10"	10'3"	9'2"	8'5"	7'9"	7′3″	6′10″	
	2 - 2 x 12	13'11"	12′0″	10'9"	9'10"	9'1"	8'6"	8'0"	
	3 - 2 x 6	8'7"	7′8″	6′11″	6'3"	5′10″	5′5″	5′2″	
	3 - 2 x 8	11'4"	9'11"	8'11"	8'1"	7'6"	7′0″	6'7"	
	3 - 2 x 10	14'5"	12′10″	11'6"	10'6"	9'9"	9'1"	8′7″	
	3 - 2 x 12	17'5"	15′1″	13'6"	12'4"	11′5″	10'8"	10'1"	
Douglas	2 - 2 x 8	6'10"	5′11″	5'4"	4'10"	4'6"	4'1"	3'8"	
Fir-Larch, Hem-Fir, SPF	2 - 2 x 10	8'4"	7′3″	6'6"	5′11″	5'6"	5′1″	4'8"	
	2 - 2 x 12	9'8"	8′5″	7'6"	6′10″	6′4″	5′11″	5′7″	

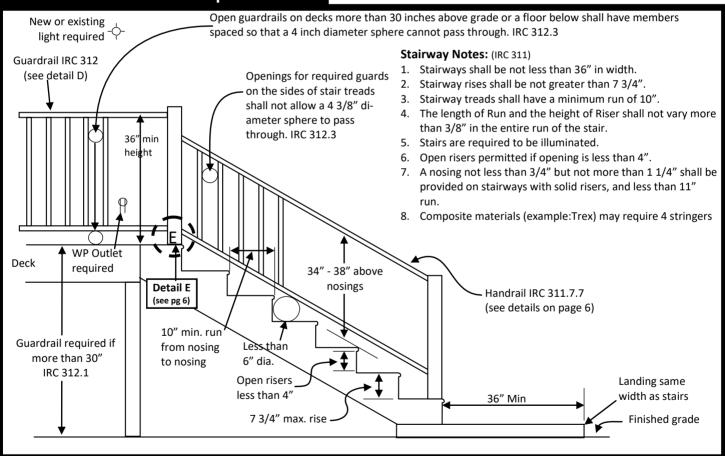
NOTES: a. # 2 grade or better, wet service conditions **b.** 40 psf live load, 10 psf dead load **c.** Beam assembled per (IRC 602.2(1)) * Table taken from 2008 American Forest & Paper Association, Inc "Prescriptive Residential Wood Deck Construction Guide"

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Detail C



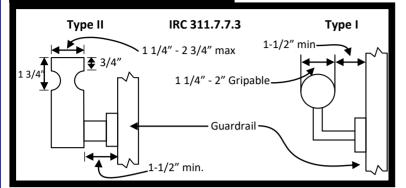
Detail D - Stair & Handrail Specifications

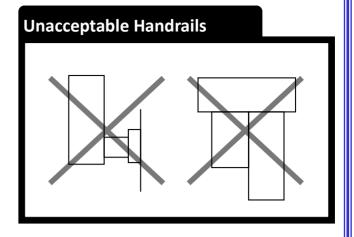


Handrail Notes:

- 1. Handrails shall be continuous on at least one side of stairs with 4 or more risers. IRC 311.7.7.2
- 2. Top of the handrails shall be placed not less than 34 inches nor more than 38 inches above stair nosings. 311.7.7.1
- 3. The handgrip portion of handrails shall be not less than 1-1/4 inches nor more than 2 1/4 inches in cross section for non circular handrails.
- 4. Handrails shall be placed not less than 1-1/2 inches from any wall or other surface. IRC 311.7.7.2

Preferred Handrail Details





Guardrail Post Hold-down or similar tension device (see note 2) Decking

Guardrail Notes:

- Shall be able to resist a single concentrated load applied in any direction at any point along the top of 200 lbs/sq ft. (Table 301.5)
- Approved fasteners shall be used to connect post to deck and be able to resist 1700 lb force.
- Guard in-fill components, balusters, and panel fillers shall be designed to withstand a horizontally applied normal load of 50 lbs on an area equal to one sq ft. (Table 301.5)
- 4. Guard in-fill components, balusters, and panel fillers shall be designed to shed water.
- 5. 4 x 4 posts should be spaced every 6 ft.
- 4 x 4 posts cannot be notched.

Table F	RECOMMENDED POST SIZE							
Dool hoight	Load Area *							
Deck height	48	72	96	120	124			
0' to 6'	4 x 4	4 x 4	6 x 6	6 x 6	6 x 6			
6' and up	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6			

*To calculate "Load area" multiply the distance between the beams by the distance between the posts (in feet).