Village of Newtown

Department of Buildings & Zoning 3537 Church Street Newtown, Ohio 45244 (513)-561-7097 Fax (513)-561-7555 www.newtownohio.gov

Residential Deck Drawings

A permit is required for any deck that is above grade level. This includes decks that have the bottom of the structure on the ground. Plans should include four copies of deck construction drawings and lot plans with the deck shown to scale and the distance to property lines.

When applying for a permit to construct a deck, there are a few items that must be submitted for building and zoning compliance. These items need to appear on the drawings submitted with the application form for a permit. They are related to requirements in the 2019 Residential Code of Ohio. A copy of the code is available for reference at https://www.com.ohio.gov/dico/BBS Click "Codes"

The information and datails shown on the following sheets can be used as part of your permit plans for your deck. They are available as a guide to help you with the detailing, and they can be used partially or in full. For example, if you have Framing Plans already prepared, then any of the other information, such as the Stair Section and one of the Ledger Board Details, can be printed and submitted along with the Framing Plan to complete your set of drawings.

Please call our office you have any questions or if you need assistance using the drawings. Our drawings are one example and are not the only way to comply for deck permits.

General Notes

- 1. All lumber shall be pressure treated No. 2 Southern Pine, or better.
- All metal fasteners & hangers shall be hot-dipped golvenized steel, stainless steel, G185 golvenized or otherwise compatible with the wood treatment. All boths shall be 1/2° diameter minimum.
- treatment. All botts shall be 1/2° diameter minimum.

 3. All beam and top roll splices shall occur at a post or otherwise on adequate bearing.
- All footings shall be cost-in-place concrete with a min. 2500 psi compressive strength.
- Guarde are required at all areas where the deck/parch floor is greater than 30° above grade for a distance of 3 feet measured from edge of deck.
- Required guards shall be 36° tall (min.) and be constructed such that
 a 4° diameter object will not pass through.
- 7. Guard post spacing shall not exceed 6 ft. on center.

Application Number:

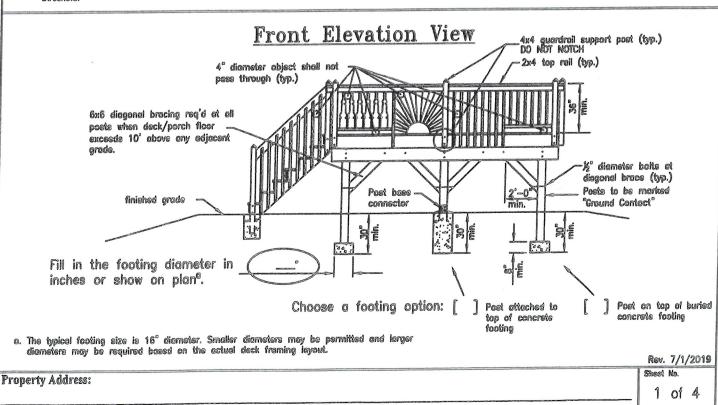
- Guards and handrails are required at all stairs that are greater than 30° above grade.
- The deck/porch floor shall be within 30° of the top of the door threshold.

- 10. Live Load Deflection: Joists & Beams- L/360 Guards- L/240
- 11. Design Loads: Floor Live Load 40 lbs./s/ (min.)
 Wind Speed 90 mph (Vulk 115mph)
 Soil Regring Pressure 1500 lbs./s/
- Soil Bearing Pressure 1500 lbs./si

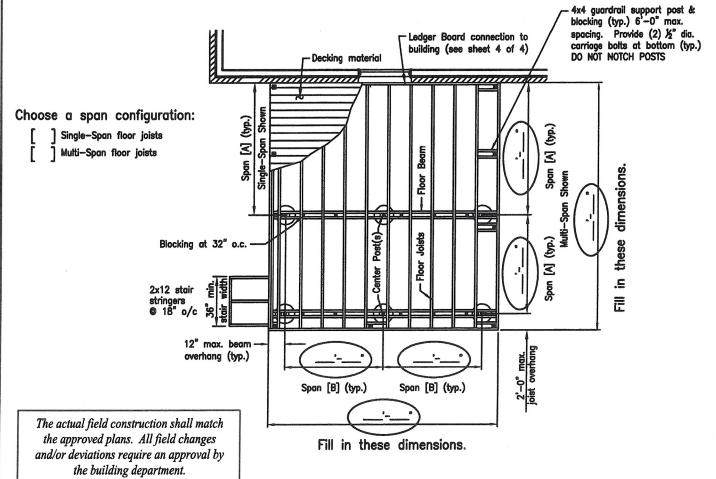
 12. Guerds shall be designed for a 200 lb. concentrated load placed along the top rail in any direction, at any point.
- 13. This deck/porch is not designed for hot-tub or spe loading.
- 14. All exterior stairs & essectated landings shall be illuminated.
 15. Post size is based on the height of the deck floor above finished grade (at the highest point):
 - 0' to B' high: 4x4, 4x6, 6x6 B' and up: 6x6
- 16. The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.

Residential

Deck Dreving



Foundation & Framing Plan



Framing Table

FLOOR JOISTS 1			FLOOR BEAMS 2		
CHOOSE JOIST SIZE	LUMBER SIZE	MAX. SPAN [A]	CHOOSE ONE	LUMBER SIZE	MAX. SPAN [B]
	(nominal)	(feet)	ROW	(nominal)	(feet)
[]	2 x 6	9'-0"	[]	(2) 2 x 6	5'-6"
			[]	(2) 2 x 8	7'-0"
			[]	(2) 2 x 10	8'-6"
			[]	(2)2 x 12	10'-0"
	2 x 8	11'-10"	[]	(2) 2 x 8	6'-2"
[]			. []	(2) 2 x 10	7'-4"
			[]	(2)2 x 12	8'-7"
[]	2 × 10	14'-0"	[]	(2) 2 x 10	6'-9"
			[]	(2) 2 x 12	8'-0"
[]	2 x 12	16'-6"	[]	(2)2 x 12	7'-0"

1. Choose one joist size with the associated maximum span. All joists are spaced a maximum of 16" O.C.

2. Choose one floor beam with the associated maximum span that corresponds with the size of joist chosen.

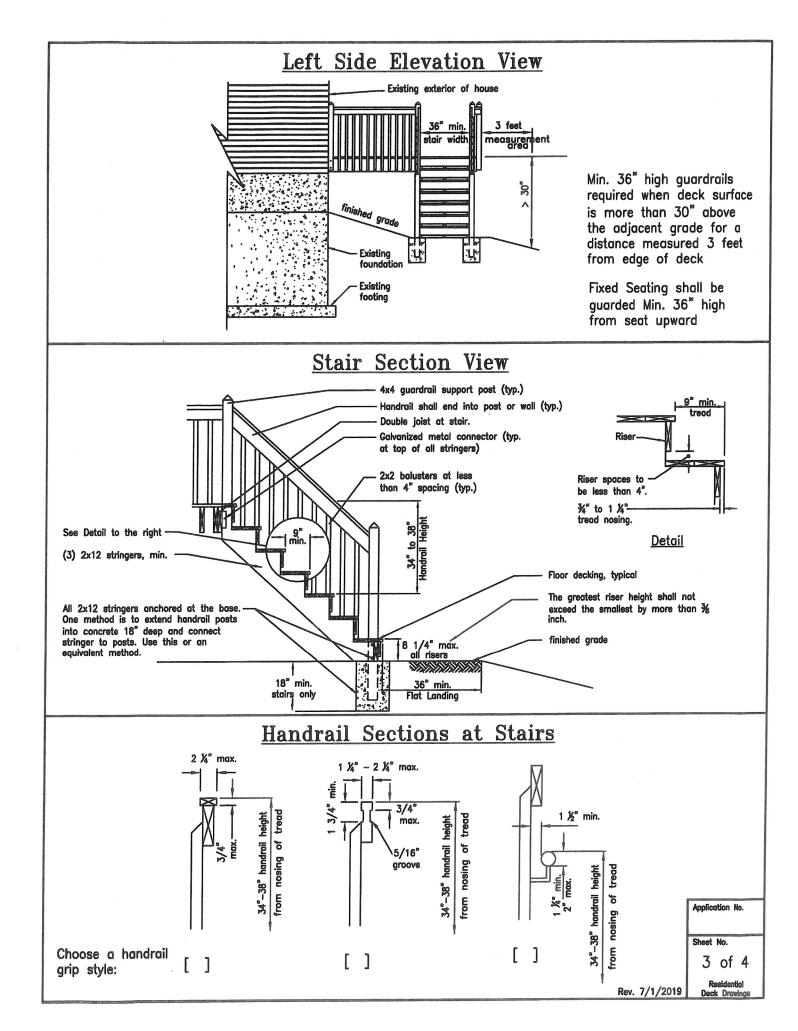
Application No.

Sheet No.

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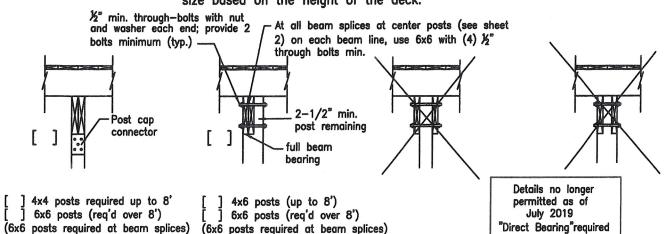
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Residential Deck Drawings



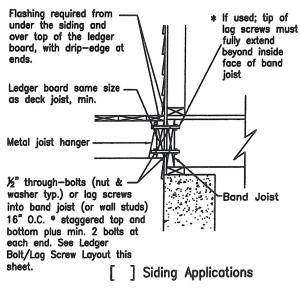
Beam-to-Post Connection Details

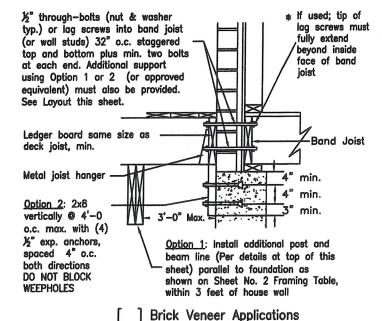
Choose one beam—to—post connection option. Choose one post size based on the height of the deck.



Ledger Board Details

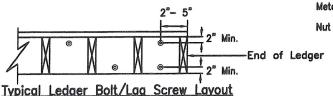
Choose the ledger board detail that applies.





* ½" Lag <u>screws</u> with 16" O.C spacing can be used for 10 feet max. joist spans. For longer joist spans, the maximum spacing shall be as follows in the joist span table below.

* Joist Span/Lag Screw Fastener Spacing							
10'-1" to 12'	12'-1" to 14'	14'-1" to 16'	16'-1" to 18'				
15"	13"	11"	10°				



½" expansion anchors 16" o.c. staggered top and bottom plus min. two anchors at each end. See Ledger Bolt Layout this sheet.

Ledger board same size as deck joist, min.

Metal joist hanger

Nut & washer (typ.)

Concrete Applications

Application No.

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