

City of Eastlake  
Building Department  
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## **RESIDENTIAL DRAWINGS**

### **INSTRUCTIONS FOR SUBMITTING AN APPLICATION FOR RESIDENTIAL PLAN APPROVAL**

- Complete: Application for Residential Plan Approval
    - You are required to select one of the three (3) methods to show energy compliance.  
Exception: Portions not altered by additions and alterations.
  - Complete: Residential Code of Ohio Systems Description Form
  - Complete: Appropriate permit application forms and attach to application
- \*\*\*
- Submit two (2) or more complete sets of construction documents along with the associated forms. The following information shall include information necessary to determine compliance with the code. (Full description of the requirements per the Residential Code of Ohio). The following may be required to satisfy the code.
    - Index of drawings enclosed
    - Site plan with legal survey
    - Floor plans
    - Exterior wall envelope
    - Sections showing insulation and structural elements
    - Ratings for fire resistance & fire stopping, if required
    - Systems descriptions
    - Additional information to satisfy the code
    - For additions and accessory structures, provide photographs of existing dwelling
    - Applicant to sign certification found on System Description Form
- \*\*\*
- Required inspections: For full descriptions of the inspections see the **must** requirements listed from the Residential Code of Ohio
    - Lot line markers
    - Footing or foundation inspection
    - Concrete slab and under floor inspection
    - Lowest floor elevation
    - Frame inspection (Electrical, Plumbing, Ducts, Vents)
    - Fire-resistant penetrations
    - Energy efficiency inspections
    - Lath or gypsum board inspection (fire-resistive or shear assembly)
    - Testing of residential building service equipment
    - Other inspections as required
    - Final inspections

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RESIDENTIAL CODE OF OHIO (RCO), ENERGY COMPLIANCE DECLARATION FORM

Residential Code of Ohio:

Compliance shall be demonstrated by meeting the requirements of one of the following options:

- The "International Energy Conservation Code"; or
- Sections 1101 through 1104 of this chapter; or
- Section 1105 – "The Ohio Home Builder's Association (OHBA) Alternative Energy Code Option"

Applicant shall indicate the energy compliance option below:

- 2009 International Energy Conservation Code
  - Check one of the following:
    - REScheck based on the 2009 IECC
    - Prescriptive method based on 2009 IECC Table 402.1.1
    - Prescriptive method based on U-Factor alternative 2009 IECC 402.1.3
    - Prescriptive method based on Total UA alternative 2009 IECC 402.1.4
    - Simulated performance alternative 2009 IECC 405
  
  - Check one of the following:
    - Testing option per 402.4.2.1 (blower door)
    - Visual inspection option per 402.4.2.2 (third party inspection)
  
- Prescriptive Method
  - Check one of the following:
    - Testing option (blower door)
    - Visual inspection option (third party inspection)
  
- The Home Builder's Association Alternative Energy Code Option
  - Check one of the following:
    - Compliance Path #1
    - Compliance Path #2
  
  - Air leakage testing (blower door)
    - Duct tightness testing

Residential Code of Ohio, Systems Description Form

- This form may be submitted in lieu of fully detailed plans for the following systems

Applicant: \_\_\_\_\_  
PRINT

Homeowner: \_\_\_\_\_  
PRINT

Office Phone # \_\_\_\_\_

Cell Phone # \_\_\_\_\_

Homeowner Phone # \_\_\_\_\_

Address of Project: \_\_\_\_\_

Project Description: \_\_\_\_\_

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ELECTRICAL SYSTEM DESCRIPTION

Service Size (Amps)	Size of Service Entrance Conductors	Panel Location(s)	Number of Sub-Panels	Location
<input type="radio"/> 100 Amp <input type="radio"/> 200 Amp <input type="radio"/> Over 200 Amp				<input type="radio"/> Overhead <input type="radio"/> Underground

- A detailed electrical diagram for services over 200 amps may be required for review and approval
- Detailed electrical and gas piping diagrams for generator installations may be required for review and approval

HVAC SYSTEM DESCRIPTION

<u>Heating Equipment Type, Size &amp; Efficiency</u>	<u>Design Heat Loss (Btu/h)</u>	<u>Type of Fuel</u>	<u>Location of Equipment</u>
<input type="radio"/> Forced Air Btu/h _____ Eff. _____ <input type="radio"/> Boiler Btu/h _____ Eff. _____ <input type="radio"/> Heat Pump Btu/h _____ Eff. _____ <input type="radio"/> Electric Btu/h _____ Eff. _____ <input type="radio"/> Geothermal Btu/h _____ Eff. _____		<input type="radio"/> Natural Gas <input type="radio"/> LP <input type="radio"/> Oil <input type="radio"/> Electric <input type="radio"/> Other _____	<input type="radio"/> Basement <input type="radio"/> Attic <input type="radio"/> Closet <input type="radio"/> Crawl Space <input type="radio"/> Outdoor

<u>Cooling Equipment Type, Size &amp; Efficiency</u>	<u>Design Heat Gain (Btu/h)</u>	<u>Location of Equipment</u>
<input type="radio"/> AC Btu/h _____ Eff. _____ <input type="radio"/> Heat Pump Btu/h _____ Eff. _____ <input type="radio"/> Geothermal Btu/h _____ Eff. _____		<input type="radio"/> Outdoor <input type="radio"/> Other _____
<u>Area of Conditioned Space (sq. ft.)</u>		<u>Duct Size (supply and return)</u>
_____		_____

FUEL GAS SYSTEM DESCRIPTION

<u>Number of Fuel Gas Outlets</u>	<u>Size of Fuel Gas Main</u>	<u>Piping Materials</u>
		<input type="radio"/> Steel Pipe Sch. 40 <input type="radio"/> CSST <input type="radio"/> Other _____

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PLUMBING SYSTEM DESCRIPTION

ITEM	No.	ITEM	No.	ITEM	No.
Water Closet		Laundry Tub		Pressure Reducing Valve	
Lavatory Sink		Floor Sink		Garbage Disposal	
Hot Tub		Sump Pump		Clothes Washer	
Kitchen Sink		Floor Drain		Dishwasher	
Bathtub/Shower		Hot Water Heater		Backflow Device	
Water Heater:	Location: Fuel Type: Capacity:	<input type="radio"/> Basement <input type="radio"/> Natural Gas  BTU:	<input type="radio"/> Garage <input type="radio"/> Electric  Gallons:	<input type="radio"/> Attic <input type="radio"/> Other <input type="radio"/> Tankless	<input type="radio"/> Other _____
Water Service:	Type:	<input type="radio"/> Copper	<input type="radio"/> PVC/Plastic	<input type="radio"/> Other	
	Size:	<input type="radio"/> 3/4"	<input type="radio"/> 1"	<input type="radio"/> 1-1/4"	<input type="radio"/> 1-1/2" <input type="radio"/> 2"

ISOMETRIC PLAN:



