

# General Process

The inspections and procedures outlined in this guide will assist you in understanding the requirements to obtain all required inspections as stated in Section 107 of the NC Administrative Code and Policies. If you have questions concerning the residential inspections described in this document, you are invited to contact the Onslow County Residential Code Administrator at (910) 989-3063.

Please note, work being scheduled for inspection is expected to be ready at the time the inspection request is made. All projects shall be accessible for inspection between 8am and 5pm, Monday – Friday. The permit holder may make an inspection request for the building, electrical, plumbing, mechanical, or gas fuel inspections. This request must be made by 4:00 pm the day prior to the scheduled inspection.

## Required Onsite

For an inspection to take place, the following items are required to be present on site:

- The job must be ready for the requested inspection.
- The job address must be plainly visible from the street (placard or other).
- The approved plans must be readily available onsite for review.
- All pertinent information needed for review shall be included with plans. This may include truss layouts and design sheets, I-joists layout or beam specifications, and any required engineering documentation.

## Inspection Types

Onslow County provides inspections required by the State under Section 107 of the NC Administrative Code and Policies. You may refer to the associated flow chart which illustrates the entire inspection process. Depending on the complexity of your project not all of these inspections would be required, however, if your

project contains any of the items listed an inspection of that item will be required prior to concealment.

## **Required Inspections**

### **Footing**

This inspection is to be scheduled after the trenches are excavated, all grade stakes are installed, all reinforcing steel and supports are in place and appropriately tied, all necessary forms and bulkheads are in place and braced, but before any concrete is placed.

### **Under Slab Inspection Plumbing / Electrical / Fuel Piping**

If the structure has a monolithic slab or an elevated slab, this inspection should be scheduled after all materials (such as electrical, plumbing, or fuel piping systems to be concealed by the concrete slab) are completed.

### **Underground Plumbing/Electrical/Fuel Piping**

This inspection is to be scheduled after the ditches have been excavated and the material has been placed in the excavated ditch prior to covering. This inspection can be conducted at any time prior to the compliance Inspections.

### **Underground WYE Connect**

If your project requires the installation of a sewer grinder pump or tank, then this inspection must be scheduled at any time prior to concealment and compliance.

### **Monolithic Slab Inspection or Elevated Slab Inspection**

If the structure has a monolithic slab with integral footing or a floating slab (three-piece foundation), this inspection should be scheduled after any under slab inspection has been performed and passed. All crushed stone, vapor retarder, reinforcing steel with supports, and all welded wire fabric is installed, when required. All thickened interior footer areas must be installed. String lines shall be

in place in at least two different directions to verify proposed finished slab thickness.

### **Foundation Inspections**

This inspection should be scheduled after all foundation supports or piers are installed and prior to backfill on the exterior and interior of the foundation. The purpose of this inspection is to check the placement of the foundation walls on footers and piers, the foundation itself, the anchor bolts or straps and the ground clearance. This inspection is also required for structures constructed on pilings.

### **Rough-In Inspections**

Rough-In inspection are to be scheduled when all framing is complete, and the building is dried-in (roofing felt and/or shingles in place). All parts of the plumbing, mechanical, electrical, and fuel piping systems which will be hidden from view in the finished building must be complete and ready for inspection.

### **Building Frame Inspection**

This inspection is to be scheduled simultaneously with the rough-in inspections. Framing inspections shall be made after the roof (excluding permanent roof coverings), wall, ceiling and floor framing is complete with appropriate blocking, bracing and fire stopping in place. This Inspection will not be passed until all trade inspections have been passed. The following items should be in place and visible for inspection:

- Pipes
- Chimneys and vents
- Flashing for roofs and chimneys
- Insulation baffles
- All lintels that are required to be bolted to the framing for support shall not be covered by any exterior or interior wall or ceiling finish material before approval.

Work may continue without approval for lintels supported on masonry or concrete.

### **Insulation Inspection**

This inspection is to be scheduled after the building framing and trade rough-in inspections are approved. All wall insulation must be in place. The chimney insulation must be properly secured to prevent contact with the firebox. The blown in attic insulation and crawl space insulation will be inspected at the compliance Building Final inspection. Depth markers for blown in attic insulation are required.

### **Compliance Final Inspections**

Final inspections should be made for each trade after completion of the work authorized under the technical codes.

A project is not considered finished until all final inspections are complete and any other agency holds are released.

A building final inspection is required before final utility services will connect for new structures.

Floor covers are not required to be installed for any final inspections, except in bathroom areas where water closets must be set and all plumbing fixtures must be installed.

Rough grades must be complete and all driveways, walks and patios may need to be installed to verify slope away from structure.

Permanent addresses shall be posted on all new dwellings and all permanent handrails/guards must be installed.

## **Special Inspections**

### **Temporary Power Inspection**

This inspection is for temporary electrical service to a structure prior to final approval. No occupancy is allowed as a result of this inspection. The Inspector shall give permission and issue a permit to energize the electrical service when the provisions of 10.8 have been complied with. See *Temporary Power Application*. The additional cost for Temporary Power (Electrical) is \$50.

### **Zoning Inspections**

The inspections listed above satisfy the building inspections on a permit. Additional zoning inspections may be required. To see which zoning inspection(s) are required for a permit, contact our office at (910) 455-3661.