

## INFORMATION REQUIRED ON CONSTRUCTION DOCUMENTS

To receive a building permit, the following information is required to be contained within construction documents.

### ENERGY CODE COMPLIANCE PATH

One of the following energy code compliance paths indicated clearly on the plans

- ☐ 2020 ECCCNYSL
  - ☐ Prescriptive
  - ☐ Prescriptive with envelope tradeoffs – Supply REScheck or other approved  $U_{overall}$  calculations
  - ☐ Simulated Performance Alternative – Supply IECC Energy Cost Report
  - ☐ Energy Rating Index Alternative – Supply Preliminary ERI Report and Energy Code Checklist

### BUILDING THERMAL ENVELOPE

- ☐ Continuous building thermal envelope depiction
- ☐ Typical cross-sections for each unique assembly type including callouts for:
  - ☐ Insulation R-values, materials, and installed thickness
  - ☐ Fenestration U-factors and solar heat gain coefficients (SHGCs)
  - ☐ Primary air barrier method, materials, and location
- ☐ Construction details for the following, if included in the scope of the project
  - ☐ Slab on grade with insulation extending downward from the top of the slab
  - ☐ Insulated corners: Framing allows space for insulation
  - ☐ Insulated headers: Insulation installed in headers as space allows
  - ☐ Fireplaces on exterior walls: Air barrier between insulation and fireplace insert
  - ☐ Dropped ceiling/soffit: Air barrier aligned with insulation
  - ☐ Porch roofs: Exterior wall sheathing extends behind intersection with porch roof
  - ☐ Skylight shafts: Shaft walls are insulated and include attic-side air barriers
  - ☐ Showers/tubs on exterior walls: Air barrier located between wall insulation and the shower/tub
  - ☐ Knee walls: Air barrier on attic side of knee wall, top plate installed, blocking between floor joists under knee wall
  - ☐ Blocking between joists above walls separating garages from conditioned space
  - ☐ Cantilevered floors: Insulated with solid air barriers underneath insulation and blocking between joists
  - ☐ Attic access hatches: Weatherstripped and insulated to the same R-value as the surrounding surface
- ☐ Notes indicate that insulation is to be installed per manufacturer's installation instructions or RESNET Grade I

## HEATING AND COOLING SYSTEMS

### Thermostats

- ☐ Thermostat type and location

### Ducts and Air Handler

- ☐ Duct and air handler locations
- ☐ Notes or drawings specify insulation R-values for ducts in unconditioned spaces
- ☐ Note indicating that HVAC contractor will seal ducts to 4.0 cfm/100 ft<sup>2</sup> conditioned floor area with UL 181 products appropriate for the duct material type. (Testing not required if all ducts are located completely within conditioned space.)
- ☐ Furnace and air conditioner or heat pump specifications

### HVAC Design Worksheet

- ☐ Completed *Heating and Cooling Equipment Worksheet* (page 1)
- ☐ Completed *Whole-house Mechanical Ventilation Worksheet* (page 2)

### HVAC Piping

- ☐ Notes or drawings indicate HVAC pipe insulation R-values (e.g. hydronic systems, refrigerant lines)
- ☐ Notes or drawings indicate HVAC pipe insulation protection for pipes/insulation located outdoors (e.g. refrigerant lines)

## SERVICE HOT WATER PIPING

- ☐ Hot water pipe insulation R-value for pipes meeting any one of the following conditions
  - ☐  $\geq \frac{3}{4}$ " nominal diameter
  - ☐ Located outside conditioned space
  - ☐ Between the water heater and a manifold
  - ☐ Underground or in a slab
  - ☐ Serving more than one dwelling unit
  - ☐ Supply and return piping in recirculating hot water systems other than demand recirculating systems

## LIGHTING

- ☐ Lighting schedule or notes indicating percentage of high-efficacy lighting