APPENDIX B: FLOODPLAIN DEVELOPMENT REQUIREMENTS

All site plans for development within any Special Flood Hazard Area should show the following information. Please refer to City of Lenoir Flood Damage Prevention Ordinance, Chapter 9 of the Lenoir Code of Ordinances, for detailed requirements and standards.

All site plans for development within any Special Flood Hazard Area should show the following information, as applicable:

- ❑ General information:
  - ❑ Map scale (ex. 1" = 100')
  - ❑ North arrow
  - ❑ Property lines
  - ❑ Topographic sketch including existing and proposed contour intervals of not less than 5 feet.
- ❑ Floodplain Information (based on FIRM map):
  - ❑ Boundary of Special Flood Hazard Area
  - ❑ Flood zone(s) designation of the proposed development area
  - ❑ Boundary of the floodway(s) or non-encroachment area(s)
  - ❑ Base flood elevation(s)
- ❑ Site Development information:
  - ❑ Location of all areas of development/disturbance
  - ❑ Existing and proposed structures
  - ❑ Utility systems (for public utilities, include details on how the location will minimize flood damage and protect public facilities)
  - ❑ Grading and pavement areas
  - ❑ Fill materials
  - ❑ Storage areas
  - ❑ Drainage facilities
  - ❑ Details on the existing and proposed location of any watercourse to be altered or relocated.

All plans for structures within any Special Flood Hazard Area should show the following information, as applicable:

- ❑ Elevation information (in relation to mean sea level):
  - ❑ Elevation of the proposed reference level (including basement) of all structures.
  - ❑ Elevation to which any non-residential structure in Zone AE, A, or AO will be floodproofed.
  - ❑ Elevation to which any proposed utility systems will be elevated or floodproofed.
  - ❑ Elevation Certificate (FEMA Form 81-31)
- ❑ Floodproofing information:
  - ❑ Floodproofing certificate (FEMA Form 81-65)
  - ❑ Operational plan
  - ❑ Inspection and maintenance plan, including installation, exercise, and maintenance of floodproofing measures).
- ❑ Usage details of any enclosed areas below the lowest floor.
- ❑ Foundation Plan
  - ❑ To-scale drawings of proposed foundation system
  - ❑ Proposed method of elevation (i.e. fill, solid foundation perimeter wall, solid backfilled foundation, open foundation on columns/posts/shear walls).
  - ❑ Openings to facilitate automatic equalization of

CERTIFICATION REQUIREMENTS

When any of the following are applicable to the proposed development, the application will not be accepted unless the certification is signed and sealed by the appropriate registered/licensed professional. There will be NO exceptions.

- ❑ **Elevation Certificate —** FEMA Form 81-31 must be completed and submitted to the Floodplain Administrator within 7 days of establishing a reference level and again showing the as-built elevation prior to C/O for new construction.
- ❑ **Floodproofing Certificate** — If floodproofing, FEMA Form 81-65 must be completed and certified by a professional engineer or architect and submitted with supporting data, an operational plan, and an inspection and maintenance plan.
- ❑ **Watercourse Alteration/Relocation** — If altering or moving a watercourse, a professional engineer must prepare and certify the report that describes the proposed alteration/relocation and details the effects of the proposed project on the flood-carrying capacity of the watercourse and the effects to properties located both upstream and downstream. A map illustrating the alteration/relocation must be included.
- ❑ **No-Rise Certification** — Any development within the Floodway or Non-Encroachment area must certified by a professional engineer that the encroachment will not result in any increase in the flood levels during the occurrence of the base flood, based on hydrologic and hydraulic analyses performed in accordance with standard engineering practice.