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**Town of Lewisville**  
 6510 Shallowford Rd  
 P.O. Box 547  
 Lewisville, NC 27023  
 Telephone: (336) 945-5558  
 Fax: (336) 945-5531

**APPLICATION FOR STORMWATER MANAGEMENT PERMIT**

*Instructions: All sections must be completed upon submittal. Any incomplete submittals will be returned. Please print or type information.*

**(1) Project Information**

**Project Name:** \_\_\_\_\_  
**Project Location: Highway/Street:** \_\_\_\_\_  
**Latitude:** \_\_\_\_\_ **Longitude:** \_\_\_\_\_  
**Purpose of Development: Residential** \_\_\_\_\_ **Commercial** \_\_\_\_\_  
**Total Area Disturbed:** \_\_\_\_\_ **acres**  
**Total Acres of Site:** \_\_\_\_\_

**(2) Client Information (Owner/Developer)**

**Business Name(s):** \_\_\_\_\_  
**Applicant Name(s):** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
 \_\_\_\_\_ **ZIP** \_\_\_\_\_  
**Telephone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_  
**Email Address:** \_\_\_\_\_

**(3) Consultant Information (Person to contact regarding questions or revisions to the plan)**

**Company:** \_\_\_\_\_  
**Contact Name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
 \_\_\_\_\_ **Zip** \_\_\_\_\_  
**Telephone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_  
**Email Address:** \_\_\_\_\_

<p><b>ALL ITEMS ON THIS APPLICATION MUST BE ADDRESSED PRIOR TO SUBMITTAL</b>  <b>ALL INCOMPLETE SUBMITTALS WILL BE RETURNED</b></p>
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**(4) Recordation Information**

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

\_\_\_\_\_

**Zip** \_\_\_\_\_

**Recorded in Deed Book No:** \_\_\_\_\_

**Page:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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### **APPLICATION FOR STORMWATER MANAGEMENT PERMIT**

#### **Submittal Checklist**

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#### ***General Requirements***

##### **Applicant's initials**

- \_\_\_\_\_ (1) Sheets shall be no larger than 36" x 24" plan and profile paper
- \_\_\_\_\_ (2) Minimum text size shall be 1/8".
  
- \_\_\_\_\_ (3) Scale on plan view shall be no smaller than 1"=50'; scale on profile view shall be no smaller than 1"=50' horizontally and 1"=5' vertically using a grid showing 1' intervals.
  
- \_\_\_\_\_ (4) All drawings to be in North Carolina State Plane coordinate system.
  
- \_\_\_\_\_ (5) Cover sheet shall have a vicinity map at a scale no smaller than 1"=200'.
  
- \_\_\_\_\_ (6) Provide a legend indicating existing and proposed lines, features and symbols.
  
- \_\_\_\_\_ (7) Cover sheet shall include all general notes, owner's name, telephone number, and mailing address.
  
- \_\_\_\_\_ (8) All elevations shall be given in relation to mean sea level; elevations in profile view shall be labeled in 10' intervals on the heavy lines (Ex. 350, 360).
  
- \_\_\_\_\_ (9) Benchmark elevations and locations shall be shown on plan view.
  
- \_\_\_\_\_ (10) Plan views shall have a north arrow on each drawing.
  
- \_\_\_\_\_ (11) Each drawing shall have the following information in the title block: Street or project title, limits, horizontal and vertical scales, original date, revisions date, drawing number, checked by and drawn by. Recommended placement is lower right-hand corner.
  
- \_\_\_\_\_ (12) All drawings sealed, signed and dated by a NC Professional Engineer, Surveyor, Soil Scientist, or Landscape Architect shall perform services only in their competence.
  
- \_\_\_\_\_ (13) A signed and sealed statement on the plans (if a high density project) certifying that the design of all stormwater management facilities and practices will control and treat the runoff from the 25-year, 6-hour storm leaving the project site between the pre- and post-development and, that the designs and plans are sufficient to comply with applicable standards and policies found in the NCDENR *Stormwater BMP Design Manual* and any Town of Lewisville supplements to the BMP Design Manual, and that the designs and plans ensure compliance with the Town's Phase II Stormwater Management and Watershed Protection Ordinance.

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- \_\_\_\_\_ (14) Plan view shall show all actual street names (existing and proposed). State road numbers shall be shown if applicable. Plan view should also indicate whether street is asphalt, concrete, gravel or dirt. Proposed street and Right-of-way widths will be dimensioned back-to-back and labeled in plan view.
- \_\_\_\_\_ (15) Plan view shall show proposed and existing curb and gutter, pavement, storm sewers, drainage structures, driveway pipes, drainage features (ditches, swales, etc.), water mains, sanitary sewer mains, etc. Direction of flow shall be shown on plan view for all sanitary sewers and storm drains. Materials and pipe sizes shall be labeled.
- \_\_\_\_\_ (16) Existing utility lines shall be shown and labeled on plan view and indicated in the legend.
- \_\_\_\_\_ (17) Construction drawings shall show final proposed locations and dimensions of all water, storm drain, and sanitary sewer lines, devices to be installed on the system, catch basins, culverts, BMP's, ditches, including grades, pipe sizes, elevations, invert elevations for all inlets and manholes and profiles of sanitary sewer lines. All available elevations shall be shown on the profile view. Assumptions and calculations may be in a separate package.
- \_\_\_\_\_ (18) All existing and proposed water, storm drainage and sanitary sewer easements shall be shown on all applicable sheets.
- \_\_\_\_\_ (19) Number of dwelling units, lots, built-upon area (predevelopment and post-development).
- \_\_\_\_\_ (20) Existing and proposed topographic lines on tract and minimum 100-feet beyond property lines (minimum 2-foot intervals).
- \_\_\_\_\_ (21) Town limits, county lines, and other jurisdictional lines, if any.
- \_\_\_\_\_ (22) Streams, ponds, wetlands, etc. on the project site and within 50 feet of the property lines. Showing buffers of 30ft. outside the Public Supply Watershed and 100ft. within.
- \_\_\_\_\_ (23) Location of floodplain and floodway (if applicable).
- \_\_\_\_\_ (24) Location of drainage ways and easements.

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***Required Analysis:***

- \_\_\_\_\_ (25) Downstream mitigation analysis demonstrating the effects of the increased runoff up to a point where the post construction discharge is 10% of the receiving stream base flow for the design storm. Efforts shall be taken to mitigate any adverse effects on downstream structures, culverts, and other potentially harmful effects.
- \_\_\_\_\_ (26) Upstream conveyance showing adequacy to convey upstream stormwater runoff through the development as guided by the ordinance and state design manual.
- \_\_\_\_\_ (27) Hydrologic-Hydraulic Analysis of the site drainage system in the pre and post-development conditions for both the 1- and 10-year, 24-hour design storm events shall be submitted demonstrating the achievement of the proposed facilities for the requirements.

***Site Drainage Features:***

- \_\_\_\_\_ (28) Existing and planned drainage patterns (include off-site areas that drain through project site.
- \_\_\_\_\_ (29) Any existing stormwater control systems.
- \_\_\_\_\_ (30) Sub-watershed delineation showing drainage areas.
- \_\_\_\_\_ (31) Show extent and number of disturbed acres.
- \_\_\_\_\_ (32) Proposed impervious areas. Not to exceed 70% inside the Public Water Supply Watershed boundary.
- \_\_\_\_\_ (33) Soil information: type, special characteristics.
- \_\_\_\_\_ (34) Name and classification of receiving watercourse.

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***Permanent Stormwater Control Measures (High Density only):***

\_\_\_\_\_ (35) Type of BMP (wet pond, rain-garden, etc.).

\_\_\_\_\_ (36) Designer's certification.

\_\_\_\_\_ (37) Narrative description of proposed stormwater system (where runoff originates (e.g. roofs, roads, parking lots, etc.), its conveyance within the project, its treatment, and its conveyance from the project to the receiving water body).

\_\_\_\_\_ (38) Profile along the centerline of the principal spillway/outfall pipe extending below the protected outfall or to the downstream structure.

\_\_\_\_\_ (39) Elevations of the "water quality" surface, temporary storage water surface, and the 10-year and 100-year storms.

\_\_\_\_\_ (40) Stage-storage table for each BMP.

\_\_\_\_\_ (41) If BMP is to be used to treat construction site runoff, provide steps necessary to restore BMP to original design condition.

\_\_\_\_\_ (42) All necessary construction specifications.

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- \_\_\_\_\_ (40) Sequence of construction.
- \_\_\_\_\_ (41) Individual drainage areas for each stormwater BMP.
- \_\_\_\_\_ (42) Construction drawings and details for permanent measures.
- \_\_\_\_\_ (43) Size and location of culverts.
- \_\_\_\_\_ (44) Size and location of subsurface drainage conveyances.
- \_\_\_\_\_ (45) Disclosure of party ultimately responsible for operation and maintenance of stormwater system.

***Stormwater Calculations:***

- \_\_\_\_\_ (46) Narrative description of calculations (methods, variables, assumptions, etc.) and results.
- \_\_\_\_\_ (47) Stormwater BMPs designed in accordance with NCDENR *Stormwater BMP design manual*, and any supplements to the BMP design manual issued by the Town of Lewisville.
- \_\_\_\_\_ (48) Time of concentration for pre/post development conditions.
- \_\_\_\_\_ (49) Pre-construction and post-construction runoff calculations for each outlet from the site (at peak discharge points).
- \_\_\_\_\_ (50) Pre-construction and post-construction design calculations and hydrographs.
- \_\_\_\_\_ (51) Design calculations of culverts and storm sewers.

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