

# TOWN of CARY

## GRAVITY SEWERS, PUMP STATIONS, AND FORCE MAINS APPLICATION

**INSTRUCTIONS:** Indicate that you have included the following list of required application package items by signing your initials in the space provided next to each item. Failure to submit all required items will lead to additional processing and review time for the permit application.

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### ALL PROJECTS

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**A. Application Form** – Submit one electronic (PDF) copy of the completed and appropriately executed application form as indicated in step E.. The application form shall be signed as follows:

- (1) in the case of a corporation, by a principal executive officer of at least the level of vice-president, or his duly authorized representative;
- (2) in the case of a partnership, by a general partner, and in the case of a limited partnership, by a general partner;
- (3) in the case of a sole proprietorship, by the proprietor;
- (4) in the case of a municipal, state, or other public entity by either a principal executive officer, ranking elected official, or other duly authorized employee.

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### PROJECTS SUBMITTED VIA TOWN OF CARY SITE PLAN REVIEW

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**B. Detailed Plans** – Utility Extension plans are submitted via the Town of Cary site plan review process. No additional copies are required. These plans shall conform to the most recent versions of the Town of Cary Standard Specifications, North Carolina Department of Environment and Natural Resources (NCDENR) Gravity Sewer Minimum Design Criteria, and NCDENR Minimum Design Criteria for the Fast Track Permitting of Pump Stations and Force Mains. Plans shall be signed, sealed, and dated by a North Carolina licensed Professional Engineer.

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**C. Engineering Calculations** - Submit one set of Engineering Calculations. Engineering Calculations shall include at a minimum: flow quantity calculations, flow velocity calculations, pipe capacity calculations, total dynamic head calculations and system curves, pumping cycle calculations, and structure buoyancy calculations. Engineering Calculations shall be signed, sealed, and dated by a North Carolina licensed Professional Engineer.

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**D. Application Fee** - The fee for projects permitted via the Town of Cary Site Plan Review process will be \$480/each permit. This fee will be collected during the ITD review process prior to project approval.

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Note: Phased Plans may require multiple permits.

**E. Application Submittal** - Submit application and all supporting documents as indicated during the site plan review process.

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### PROJECTS SUBMITTED VIA TOWN OF MORRISVILLE SITE PLAN REVIEW

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**B. Detailed Plans** - Submit three sets of plans plus one electronic copy in PDF format, bearing completed site plan approval block (PDF files should be labeled by sheet name and number). Plans shall conform to the most recent versions of the Town of Cary Standard Specifications, North Carolina Department of Environment and Natural Resources (NCDENR) Gravity Sewer Minimum Design Criteria, and NCDENR Minimum Design Criteria for the Fast Track Permitting of Pump Stations and Force Mains. Plans shall be signed, sealed, and dated by a North Carolina licensed Professional Engineer.

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**C. Engineering Calculations** - Submit one set of Engineering Calculations. Engineering Calculations shall include at a minimum: flow quantity calculations, flow velocity calculations, pipe capacity calculations, total dynamic head calculations and system curves, pumping cycle calculations, and structure buoyancy calculations. Engineering Calculations shall be signed, sealed, and dated by a North Carolina licensed Professional Engineer.

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**D. Application Fee** - For projects submitted via the Town of Morrisville plan review process, submit a check in the amount of \$480 made payable to Town of Cary with the application.

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**E. Application Submittal** - After obtaining Town of Morrisville construction plan approval, submit application, fees, and all supporting documents to the following address:

**Town of Cary Development Services Department**  
**316 N. Academy Street, P.O. Box 8005**  
**Cary, NC 27512-8005**  
**(919) 469-4046**  
**[www.townofcary.org](http://www.townofcary.org)**

Permit Number: **NP24017** (to be completed by TOC)

**I. GENERAL INFORMATION:**

1. Applicant's name and complete address (name of the corporation, individual, etc.):

BAL K. SHARMA  
717 FLIP TRL.

City: Cary State: NC Zip: 27513

Telephone number: ( 984 ) 302-4256 Email Address: Bal\_Krishna\_sharma  
@hotmail.com

2. Owner's or signing official's name and title: BAL K. SHARMA, OWNER

3. Project name (name of the subdivision, facility or establishment, etc.):

EVEREST SUBDIVISION

4. Project Site Plan Number: COMBO - 23-0060

5. Name and complete address of engineering firm:

THOMPSON AND ASSOCIATES  
1149 EXECUTIVE CI. SUITE D2

City: Cary State: NC Zip: 27511

Telephone number: ( 919 ) 465-1566 Email Address: mlillerpe19793@gmail.com

6. Name and affiliation of contact person who can answer questions about application:

Randy Miller, Engineer

**II. PERMIT INFORMATION:**

1. Project is: ☒ new; ☐ modification
2. If this application is being submitted as a result of a modification to an existing permit, provide:  
existing permit number \_\_\_\_\_ and the issuance date \_\_\_\_\_

**III. INFORMATION ON WASTEWATER:**

1. Please provide a one- or two-word description specifying the origin of the wastewater (school, subdivision, hospital, commercial facility, industry, apartments, condominiums, etc.):

Subdivision

2. Volume of wastewater generated by this project: 2,520 gallons per day

3. Wastewater flow was determined from: (show calculation)

a. 15A NCAC 2T .0144:

7 RESIDENCES X 3 BDRM / RES X 120 GPD / BDRM = 2520 GPD

b. TOC approved flowrates per Std. Spec. 07010.A.2.b):

4. Nature of wastewater: ☒ % Domestic/Commercial; ☐ % Industrial;  
☐ % Other waste - specify: \_\_\_\_\_

5. If wastewater is industrial in nature:

a. Level of pretreatment that has been provided to ensure protection of the receiving collection system and wastewater treatment facility:

b. If a pretreatment permit is required, has one been issued? ☐ Yes; ☐ No. If yes, please attach a copy of the pretreatment permit. If no, provide date application was submitted: \_\_\_\_\_

#### IV. DESIGN INFORMATION:

1. Brief project description:

EXTENSION OF SANITARY SEWER, ~ 244 LF, TO  
SERVE 7 NEW SINGLE FAMILY LOTS W/ 8" PVC

2. Name of wastewater treatment facility receiving wastewater (check one): GRAVITY SEWER

a. ☒ North Cary WWTP (NPDES Permit No. NC0048879)

b. ☐ South Cary WWTP (NPDES Permit No. NC0065102)

c. ☐ Western Wake Regional Water Reclamation Facility (NPDES Permit No. NC0088846)

3. Summary of **GRAVITY SEWER** to be permitted:

Diameter (inches)	Length (linear feet)
8	244

6. Does the subject gravity sewer collection system comply with the most recent versions of the Town of Cary Standard Specifications, NCDENR Gravity Sewer Minimum Design Criteria, and 15A NCAC 2T .0300? ☒ Yes; ☐ No. If no, please identify criteria and explain:

7 SF HOMES x 3 BDRM / HOMES x 120 GPD / BDRM = 2,520 GPD

Flow = 0.004 CFS

7. Summary of **PUMP STATIONS** to be permitted:

No. or Name	Design Flow (MGD)	Pump Operational Points GPM @ feet TDH

8. Summary of **FORCE MAIN** to be permitted:

Diameter (inches)	Length (linear feet)

9. List any equipment being utilized that is not specifically mentioned elsewhere in the application or is not required in the Town of Cary Standard Specifications or NCDENR Minimum Design Criteria for the Fast Track Permitting of Pump Stations and Force Mains (e.g., telemetry, hoist, odor control equipment, mechanical bar screens, etc.):

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10. Do the subject pump stations and force mains comply with the most recent versions of the Town of Cary Standard Specifications, NCDENR Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains, and 15A NCAC 2T .0300? ☐ Yes; ☐ No. If no, please identify criteria and explain:

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**V. OTHER PERMITS/CERTIFICATIONS:**

1. Have the following permits/certifications been received or submitted for approval? If yes, indicate date received or submitted. If no, please explain.

- a. Wetland/Stream Crossings – General Permit or 401 Certification? N/A
- b. Sedimentation and Erosion Control Plan? CURRENTLY IN REVIEW
- c. Stormwater? CURRENTLY IN REVIEW

## VI. CERTIFICATIONS

### Professional Engineer's Certification:

I, RANDALL L. MILLER, attest that this application for

EVEREST SUBDIVISION has been reviewed by me and is accurate, complete and consistent with the information in the engineering plans, calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations, and the most recent versions of the Town of Cary Standard Specifications, NCDENR Gravity Sewer Minimum Design Criteria, NCDENR Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains, and the watershed classification in accordance with NCDENR guidance. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. I understand that if any offsite easements are required for the sewer line extension installation as shown on the plans, this extension permit is not valid without legal proof of that easement acquisition.

North Carolina Professional Engineer's seal, signature, and date:



### Applicant's Certification:

I, Bal K Sharma, attest that this application for

EVEREST SUBDIVISION has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete. I understand that if any offsite easements are required for the sewer line extension installation as shown on the plans, this extension permit is not valid without legal proof of that easement acquisition. Furthermore, I certify that upon complete installation of the sewer extensions permitted through this application form and TOC approval, the subject sewer extensions shall be dedicated to the Town of Cary.

Signature: Bal K Sharma

Date: 9/14/23

**APPROVAL:** The permit cited in the foregoing application is hereby approved insofar as the protection of public health is concerned as provided in the regulations, standards and criteria adopted under the authority of Chapter 36, Article II Water and Sewer Extensions, Section 36-37 of the Code of Ordinances for the Town of Cary, with the following provisions:

The official copies of plans accompanying this application have been sealed and stamped with the serial number of this application NP24017. Only such plans are included in this permit approval and any erasures, additions or alterations of the proposed sewer extensions will make such approval null and void. This permit shall be effective from the date of site plan approval or as dated below. This permit shall expire one (1) year from the date of site plan approval if the permitted improvements have not been initiated.

APPROVED BY Jamie Bissonnette, 5/15/24