



CIVIL ENGINEER II

Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job.

DEFINITION

This is the full journey level class within the Civil Engineer series. Employees within this class are distinguished from the Civil Engineer I by being registered as a professional engineer, and by the performance of the full range of duties as assigned including complex professional level engineering design and analysis. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Village Engineer.

May exercise fundamental and technical supervision over lower level staff.

EXAMPLES OF DUTIES—*Essential and other important duties and responsibilities may include, but are not limited to, the following:*

Essential duties and responsibilities

1. Oversee and review plans of public works structures including streets, storm drains, and sewers; check plans for conformance with regulations regarding line, grade, size, elevation and location of structures; check calculations.
2. Oversee and review the plans of consulting engineers and private contractors; recommend adjustments to engineering designs; ensures compliance with specifications; and applicable Village codes.
3. Develop and design municipal capital improvement projects relating to water mains, sewers, streets traffic signals, parking lots, pavement markings, etc.
4. Act as resident engineer on capital improvement projects; ensure projects are built according to plans; modify projects on site as needed; measure and maintain records of project quantities.
5. Analyze traffic engineering problems; recommend improvements or modifications.
6. Supervise field data collection crew; review data collection needs including surveys of cross sections, topography, sewer and related projects.
7. Coordinate assigned activities with consultants, engineers, developers, contractors, other Village departments and divisions, outside agencies, and the general public; provide consultation and advice on construction projects.
8. Prepare progress reports on projects under construction; main records of changes and field notes.
9. Conduct various engineering studies and prepare reports.
10. Calculate the quantity, quality and cost of materials used for various projects.



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Other important responsibilities and duties

1. Oversee the maintenance of plans and contract documents including subdivision maps, site plans, lot line adjustments and easements; process quit claims, grant deeds, and assessment districts.
2. Provide staff assistance to the Village Engineer; provide staff support on a variety of committees; prepare reports as necessary.
3. Stay abreast of new trends and innovations in the field of civil engineering.
4. Oversee the preparation of maps, deeds and legal descriptions.
5. Perform related duties and responsibilities as required.
6. Respond to public inquiries regarding issues related to the public right of way.

QUALIFICATIONS

Knowledge of:

Basic civil engineering principles and techniques.

Applicable laws and regulatory codes relevant to assigned area of responsibility.

Methods, materials and techniques used in the construction of public works projects.

Modern developments, current literature and sources of information regarding engineering.

Principles of advanced mathematics and their application to engineering work.

Modern principles and practices of surveying.

Village engineering policies, procedures, and issues.

Complex civil engineering principles and techniques.

Modern construction and maintenance methods, techniques and materials.

Ability to:

Perform technical research and solve engineering problems.

Establish and maintain cooperative working relationships with those contracted in the course of work.

Prepare plans and drawings neatly and accurately.

Make engineering design computations and check, design, and prepare engineering plans and studies.



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Apply Village engineering policies and procedures.

Apply applicable laws and regulatory codes applicable to areas of assigned responsibility.

Prepare, understand and interpret engineering construction plans, specifications and other contract documents.

Communicate clearly and concisely, both orally and in writing.

Deal tactfully with contractors, engineers and property owners.

Solve and analyze complex engineering computations.

Conduct comprehensive engineering studies and prepare reports with recommendations.

Work independently in the absence of supervision.

Maintain mental capacity which allows for effective interaction and communication with others.

Maintain physical condition appropriate to the performance of assigned duties and responsibilities which may include the following:

- *Walking, standing or sitting for extended periods of time*
- *Operating assigned equipment.*

Maintain effective audio-visual discrimination and perception needed for:

- *Making observations*
- *Communicating with others*
- *Reading and writing*
- *Operating assigned equipment*

Experience and Training Guidelines

Experience: Four years of increasingly responsible professional civil engineering experience. **AND**

Training: A Bachelor's degree from an accredited college or university with major coursework in civil engineering or a related field. **AND**

License or Certificate: Possession of a valid Certificate of Registration as a professional civil engineer from the State of Illinois. Possession of an appropriate, valid Illinois driver's license.

Working Conditions

Work in an office environment; requires some sitting, standing and walking; some work at a construction site; exposure to dust, noise and vehicular traffic.