

CIVIL ENGINEER II

General Statement of Duties: Performs difficult and advance civil engineering work as a project leader in the field and in the office; does related work as required.

Distinguishing Features of the Class: This work involves the application of professional engineering knowledge and skills to the design and construction of public works projects. Duties include the direction and coordination of the activities of a group of subordinate professional, technical and clerical assistants. Work is performed under general direction and is reviewed upon completion for conformance with departmental rules and regulations. Assignments are usually broad in scope with opportunity for the use of independent professional judgment. Supervision is exercised over the work of Civil Engineers I and Engineering Assistants.

Examples of Work: (Illustrative Only)

- Conducts preliminary studies and prepares designs for all public work facilities such as street paving projects, storm and sanitary sewer projects, and related projects;
- Develops specifications, estimates and standards;
- Supervise and perform responsible field engineering and surveying work including the layout and setting grades for street paving, resurfacing, sewer construction, water mains, sidewalk construction, recreation facilities and other construction projects.
- Supervise field survey party in establishing bench marks, property lines and other measurements.
- Provides supervision and inspection over contractors on public works construction projects.
- Consults with private builders, subdivision developers and other engineers regarding street and drainage plans and development;
- Advises and answers technical questions;
- Reviews all new subdivision residential and commercial development plans and private building permits against City's codes and ordinances and certifies compliance;
- Commercial & residential demolitions following the applicable OSHA, EPA and MIOSHA regulations as they relate to hazardous materials and demolition procedures.
- Management of Community Development Block Grant (CDBG) program utilizing funds received from US Department of Housing and Urban Development (HUD).
- Development, implementation and enforcement of Stormwater Management Program (SWMP) as regulated by the Municipal Storm Sewer Systems (MS4)
- Implementation of Stormwater Asset Management and Wastewater (SAW) program.
- Prepares special and periodic reports.
- Building inspection and plan review in accordance with Michigan residential and building codes.

Required Knowledge, Skills and Abilities: Good knowledge of the principles and practices of civil engineering as applied to the development and construction of public works projects; ability to plan, lay out and direct the work of subordinates; ability to plan projects and prepare related designs, estimates and specifications; ability to perform difficult engineering computations and to make comprehensive recommendations for the solution of engineering problems; familiarity with solid waste management in accordance with Act 451, part 115; ability to maintain effective working relationships with others; skill in the use of civil engineering instruments and equipment; grant writing skills; good professional engineering judgment; good physical condition.

Requirements: Bachelors Degree in Civil Engineering or related field and a minimum of 5 years of experience. Registered Building Inspector/Plan Reviewer with the State of Michigan or ability to become registered. Engineer in Training (EIT) via the National Council of Examiners for Engineering and Surveying (NCEES) for the State of Michigan. ASI concrete certification Level I or certification within one (1) year. Proficient in CAD version 2018, Microsoft Office (Word and Excel)

Recommended:

Licensed as a Professional Engineer (PE) in the State of Michigan; Pipeline Assessment Certification for pipelines, manholes, and laterals with NASSCO. Soil Erosion and Sedimentation Control (SESC) certified with the DEQ; Illicit Discharge Elimination Training; Department of Homeland Security Unified Incident Command Training.

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