

PRINCIPAL ENGINEERING TECHNICIAN (HYDRAULICS)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision of a professional engineer performs non-professional engineering work related to water supply and flood control projects. Supervision is exercised over a number of technical employees. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Prepares or assists in the preparation of designs using computer assisted design (CAD), and prepares and assists in the preparation of estimates for water supply and flood control projects;

Reviews plans prepared by consulting engineers;

Supervises work of survey parties;

Supervises and inspects construction of water supply, flood control and drainage works;

Prepares progress reports and estimates for payments to contractors both partial and final, on water supply and drainage facilities under construction;

Assists in the preparation of and recommendations for location of channel lines, together with investigation of land maps and records in County Clerk's Office concerning property to be affected by stream channel regulations;

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, e-mail and database software;

May perform other incidental tasks, as needed.

REQUIRED KNOWLEDGE, SKILL, ABILITIES AND ATTRIBUTES: Good knowledge of construction, structural engineering and hydraulics, including design of water supply facilities, and flood relief measures such as storm drains, earth and concrete channels, small dams, etc.; good knowledge of the use and application of rainfall data in water supply and flood run-off computations and the use and application of hydrological information in estimating stream flows; good knowledge of the regulation and control of stream channel obstructions through establishment of channel lines; good knowledge of the legal practice and principals of contract preparation; good knowledge of construction estimating; good knowledge of computer assisted design (CAD); ability to obtain necessary data from other public offices; ability to do complex engineering computations; ability to instruct and train beginning engineers and engineering technicians; ability to get along well with others and to deal effectively with contractors; ability to effectively use computer applications such as spreadsheets, word processing, calendar, e-mail and database software; ability to read, write, speak, understand, and communicate in English sufficiently to perform the essential duties of the position; accuracy; reliability; resourcefulness; sound professional judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Graduation from high school or possession of an equivalency diploma and either: (a) completion of a two year course in construction or mechanical technology at a recognized post high school, trade or technical school and four years of experience in civil engineering or a related field; or (b) six years of experience in the field of civil engineering or a related field; or (c) a satisfactory equivalent combination of the foregoing training and experience.

NOTE: Unless otherwise noted, only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.

West. Co.
J. C.: Competitive
DBB7

Job Class Code: C0798
Job Group: XI