

## CLASS SPECIFICATION

### SAN DIEGO CITY CIVIL SERVICE COMMISSION

#### PRINCIPAL ENGINEERING AIDE

##### DEFINITION:

Under general supervision, to perform routine engineering design and construction inspection or materials testing; to supervise the processing of a variety of building applications and permits; to supervise the preparation of a variety of engineering maps and records; and to perform related work.

##### \* EXAMPLES OF DUTIES:

- Performs routine civil engineering design by calculating distances, ties, angles, traverses, and closures;
- Plots cross sections, profiles, and earth work, establishing tentative street grades, curb returns, and less difficult sewer and water main installations;
- Performs less difficult electrical engineering design by laying out street lighting, traffic signals, and public building electrical circuits;
- Prepares specifications;
- Inspects street, sidewalk, curb, water, and sewer construction;
- Performs field and laboratory tests of construction materials;
- Supervises the issuance of building, plumbing, electrical, and other permits;
- Supervises the preparation of a wide variety of complex drafting work;
- Checks and processes private development plans, maps, and agreements;
- Coordinates construction activities with other agencies and citizen groups.

##### MINIMUM QUALIFICATIONS:

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Announcement for updated minimum qualifications.

A Bachelor's degree in Architecture, Civil or Structural Engineering; **OR** certification as an Engineer-in-Training (E.I.T.); **OR** two years of experience as a Senior Engineering Aide with the City of San Diego; **OR** four years of subprofessional engineering or drafting experience, typically under the direction of a professional engineer, architect, or surveyor.

- \* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.