

G.V.R.D.

TITLE: Survey/Inspection Technician I

POSITION DESCRIPTION

NO.: 616 DATE: May 20, 1999

PURPOSE OF POSITION

To carry out a variety of survey assignments and to perform inspection of materials and construction assignments on water, sewer, solid waste or parks projects either for work done by G.V.R.D. work forces or outside contractors under the direction of senior technical or engineering staff.

DUTIES

1) Surveying

- Run open or closed traverses.
- Calculate latitudes and departures.
- Make topographic and quantity surveys.
- Run class C and B benchmarks.
- Layout for all types of earthwork construction.
- Maintain lines and grades on earthwork construction.
- Use both conventional and electronic survey equipment (eg. levels, theodolites, EDMS, total stations, lasers etc.)
- Use electronic pipe and metal locators.
- Record and reduce all survey notes neatly and accurately, including properly indexing field books.
- Do sketching to supplement survey notes.
- Direct and supervise of at least one rodman.
- Excavate services for proving locations and depths.

2) Inspection

- Maintain construction record (pipe laid, excavation quantities, concrete and reinforcing steel placed, bedding and backfill material used or parks projects) for the preparation of progress payments.
- Inspect the manufacture of bulk concrete, aggregates, asphalt, steel pipe fabrication, linings and coatings at supply plants.
- Inspect the application of corrosion protection to pipe joints on welded steel pipelines.

3) **General**

- Read and interpret detailed engineering plans and profiles for construction layout and for construction conformity.
- Read and interpret detailed plans of engineering structures (valve chambers, junction chambers, fabrication drawing or parks projects) for construction layout and conformity.
- Use computer and calculator for surveying and engineering related calculations.
- Ensure staff adheres to safety regulations.
- Other related duties.

REQUIREMENTS (Minimum to fill position)

- Diploma in Civil and Structural Technology from B.C.I.T; or a recognized technical institute plus six months directly related experience, or successful completion of six months performance as a Survey/Inspection Technician I - In Training.

OR

Grade 12 supplemented with B.C.I.T. or equivalent courses and minimum two years progressive, directly related experience.

OR

Equivalent combination of education and experience.

- valid drivers license and health certificate for watershed entry,
- Sound knowledge of standard engineering terminology and applicable practices.
- Skill in the use of survey instruments - electronic and conventional and basic familiarity with the computer.
- Ability to interpret and follow standards and specifications with working knowledge of testing procedures regarding concrete, steel, fiberglass and other pipe materials, asphalt, basic welding and protective linings and coatings.
- Ability to communicate effectively with G.V.R.D. staffs contractors and the public.
- Familiarity with proper safety procedures and W.C.B. regulations.