1. Developed low impact transportation, grading and storm water design strategies for sustainable infrastructure projects.
2. Inspected installation of precast structures, underground services, concrete and earthworks.
3. Analyzed survey reports, maps, blueprints and other topographical and geologic data to effectively plan infrastructure and construction projects.
4. Evaluated sites to determine soil adequacy for handling loads imposed by building foundations and associated materials.
5. Planned, directed and participated in surveying activities and researching title reports and deeds in preparation of survey instructions.
6. Kept project on schedule and within budget while serving as project leader.
7. Facilitated construction by mapping out utility installations and establishing reference points, grades and elevations.
8. Verified construction documentation conformed to quality assurance standards and client requirements.
9. Supervised construction of waste water treatment facility for [Type] location.
10. Inspected project sites to monitor progress and adherence to design specifications, safety protocols and state sanitation standards.
11. Reviewed project goals and objectives on monthly basis with project manager and design team.
12. Liaised with civil technicians to prepare and update maps, drawings and blueprints using manual and computer-assisted methods.
13. Managed quality assurance and quality control requirements of contractor, including surveying and laboratory testing for concreting operations.
14. Assessed scope and requirements to make accurate project design determinations for [Number] projects.
15. Attended training, meetings and seminars to enhance job knowledge and skills.
16. Devised overall strategy for documentation and identified design sets planned for each stage of work including as-built designs and final building information models (BIM).
17. Computed load and grade requirements, material stress factors and water flow rates to determine design specifications.
18. Developed, implemented and utilized systems to effectively track permits and change order requests.
19. Interacted with state and local agencies concerning compliance with codes and regulations.
20. Completed information processing tasks using engineering software and statistical packages and programs to encode data and perform data entry and retrieval.
21. Prepared and presented project cost estimates, determined project feasibility based on data analysis and recommended improvements.
22. Conducted material tests and analysis using [Type] equipment and tools.
23. Assisted emergency management with disaster response and damage assessments during natural disasters.
24. Performed maintenance duty on pumps, wastewater operations and commercial injection systems.
25. Managed conceptual design projects while providing task management and technical contributions to multidisciplinary teams to bring innovative solutions to civil infrastructure problems.