1. Published technical reports on structural conditions, including repair cost estimates and necessary corrections required to meet local building codes.
2. Inspected and evaluated existing buildings for structural deficiencies and code violations.
3. Verified construction documentation conformed to quality assurance standards and client requirements.
4. Completed accurate engineering calculations for weights, loads and other metrics using both manual and digital methods.
5. Drafted structural plans using various computer aided design solutions, including [Software] and [Software].
6. Traveled to build sites to collaborate with construction personnel and to confirm compliance with design parameters and regulations.
7. Monitored implementation of necessary safety and redundancy principals in design and construction of new structures.
8. Supervised application of quality assurance and quality control of construction of [Type] structures in [Type] area.
9. Wrote project proposal summaries, outlining factors such as cost, timelines, scheduling and required permits.
10. Helped prepare project budgets, maintain schedules and put together final documentation.
11. Oversaw construction of [Number] new buildings and bridges.
12. Increased safety rating of high-level project [Number]% by identifying and resolving severe structural issues.
13. Provided technical advice to industrial personnel on design, construction and structural repairs.
14. Administered contracts and managed projects.
15. Participated in design reviews within team-based structural planning committees.
16. Discussed zoning laws, fire regulations and building codes with city and county government agencies.
17. Created cost-effective, sustainable and safe plans for large and small bridge projects.
18. Achieved and maintained accreditation from US Accreditation Board for Engineering and Technology (ABET).
19. Assisted drafters in developing structural design of products using drafting tools or computer-assisted design (CAD) or drafting equipment and software.
20. Created designs for temporary structures such as shores, vertical transportation solutions, employee access solutions and more.