

## **Construction Planning and Site Documentation**

### **Bridge and Roof Company (India) Limited | Construction Engineering**

During my role as a Construction Engineer at Bridge and Roof Company (India) Limited, I worked on multipurpose cyclone shelter construction under World Bank Project ID P144726. This experience gave me direct exposure to site-level construction coordination, revised planning drawings, documentation workflows, material testing support, and schedule tracking across multiple project locations.

A major part of my work involved developing revised AutoCAD site plans by incorporating geotechnical data and environmental considerations. This was especially important where stormwater management and site conditions affected construction progress. By revising site plans around these constraints, the work helped reduce project delays related to stormwater management complications by approximately 25%.

I also supported field-level execution through inspections at five construction locations, assisting with material testing and sampling, and helping maintain documentation connected to construction progress and quality control. This gave me practical exposure to how drawings, site conditions, material checks, and progress reporting must align for construction work to move without avoidable rework or delay.

In addition to site and drawing work, I developed WBS-based Gantt charts for 110+ construction sites, supporting schedule tracking, deadline management, and communication between project stakeholders. This helped convert a large multi-site construction program into a clearer planning and monitoring structure, improving visibility into project timelines and coordination needs.

For my portfolio, this work represents the early professional foundation of my engineering career: site coordination, construction planning, AutoCAD-based revision work, documentation discipline, schedule control, and practical problem-solving under real field constraints. It also connects directly to my later infrastructure and transportation work by showing that my experience is not only academic or simulation-based — it began with real construction execution and project delivery.

AutoCAD · WBS · Gantt Charts · Site Planning · Site Inspection · Material Testing Support · Construction Documentation · Stormwater Constraint Coordination · Project Scheduling · Stakeholder Communication