Queens Park Road Bridge

Description


BDB Project Case Study

Bridge Refurbishment

Rochdale Council

SERVICES

Bridge Strengthening Works
Concrete Repairs
Precast Concrete Units
In-situ Concrete , Roads
Footpaths
Drainage
Painting
Lighting

LOCATION

Heywood, Rochdale

CONTRACT DURATION

2 Years

VALUE

Â£5m

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Project Summary

Case Study: Queens Park Bridge Restoration, Heywood
Project Overview
Client: Rochdale Council Project: Queens Park Bridge Restoration Location: Heywood, England Value: Â£4 million
Duration: 15 months (January 2024 â?? March 2025)

Scope: Bridge strengthening, concrete repairs, precast and in-situ concrete works, road and footpath improvements, drainage upgrades, painting, lighting, and specialized scaffold access.

Project Background
Queens Park Bridge, a vital transportation link in Heywood, had experienced significant deterioration

due to age and environmental factors. The bridge structure exhibited signs of weakness, with concrete degradation and corrosion impacting its overall integrity. To ensure the long-term safety and functionality of the bridge, Rochdale Council initiated a comprehensive restoration project.

SCOPE OF WORK

Project Objectives
â?¢ Restore the structural integrity of Queens Park Bridge to ensure public safety.
â?¢ Extend the bridgeâ??s lifespan through comprehensive repairs and strengthening.
â?¢ Improve the aesthetic appeal of the bridge while maintaining its historical character.
â?¢ Minimize disruption to traffic and pedestrians during construction.
â?¢ Deliver the project within the allocated budget and timeframe. **Challenges and Solutions**
The restoration project presented several challenges, including:
â?¢ Traffic management: Maintaining traffic flow during construction was crucial. Implementing a phased approach, traffic diversions, and clear signage helped mitigate disruptions.
â?¢ Complex structural repairs: The bridgeâ??s age and condition necessitated intricate repair techniques. A detailed structural assessment informed the development of tailored repair solutions.
â?¢ Historical preservation: Balancing structural integrity with the bridgeâ??s heritage was essential. Careful material selection and restoration techniques preserved the bridgeâ??s character.
â?¢ Adverse weather conditions: Unpredictable weather impacted construction progress. Contingency plans and flexible scheduling accommodated weather-related delays.

To address these challenges, a multidisciplinary team of engineers, contractors, and specialists collaborated closely. Advanced engineering techniques, high-quality materials, and innovative construction methods were employed to ensure project success.

Key Project Deliverables
â?¢ Comprehensive bridge strengthening works to enhance load-bearing capacity.
â?¢ Extensive concrete repairs to address deterioration and prevent further damage.
â?¢ Installation of new precast and in-situ concrete elements as required.
â?¢ Reconstruction and resurfacing of roads and footpaths for improved accessibility.
â?¢ Upgraded drainage system to prevent water ingress and erosion.
â?¢ Fresh coat of paint to enhance the bridgeâ??s appearance.
â?¢ Installation of energy-efficient and visually appealing lighting.
â?¢ Safe and efficient access to all work areas through specialized scaffolding. **Project Outcomes**
The successful completion of the Queens Park Bridge restoration project will resulted in:
â?¢ A structurally sound and safe bridge for the community.
â?¢ Improved traffic flow and pedestrian safety.
â?¢ Enhanced aesthetic appeal of the bridge, contributing to the local environment.
â?¢ Extended lifespan of the bridge, reducing the need for future maintenance.
â?¢ Positive economic impact on the local community through job creation and investment.
Conclusion
The Queens Park Bridge restoration project demonstrates the successful collaboration between Rochdale Council and its contractors in delivering a vital infrastructure improvement project. By addressing the bridgeâ??s structural deficiencies and enhancing its appearance, the project has

significantly benefited the local community. The lessons learned from this project can be applied to future bridge restoration initiatives.

THE CHALLENGES

N/A

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PROJECT GALLERY


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