

Manchester Airport - Taxiway Echo & Stand 70

Client:
Allied Infrastructure Management Limited

Pavement & Drainage Renewal

Project Overview & Scope

Gill Civil delivered Planned Renewals and Reactive Support works at Manchester Airport, addressing complex pavement defects across Taxiway Echo and Stand 70. The works involved extensive breakout and excavation, removal of deteriorated materials, installation of new drainage infrastructure and reconstruction through multiple engineered pavement layers, including Type 1 sub-base, Wet Lean Concrete and high-strength PQC. Formation CBR testing was incorporated to verify ground conditions and support the structural integrity of the reinstatement. The project was delivered entirely within a live airside environment through tightly controlled restricted day time and weekend possessions.

Challenges and Execution

Working within a live operational airside environment required experienced personnel, meticulous planning and precise coordination around aircraft movements. With only a five-hour working window, every activity had to be carefully sequenced to maximise productivity while ensuring the area was fully safe and ready for the handback. Breakout, excavation, drainage installation, material removal, testing and pavement reconstruction were coordinated within each possession, supported by weekend working to maintain programme momentum. The experienced Manchester Airport team, combined with on-site concrete batching and UKAS-accredited testing, enabled the works to be delivered safely, efficiently and to the required quality standards.

Benefits and Outcomes

The completed works restored structural performance and delivered a durable, resilient pavement solution capable of withstanding demanding airside loading. New drainage infrastructure improved water management and reduced the risk of future deterioration, while the high-strength PQC surface provided a robust long-term finish. UKAS-accredited testing throughout the works provided verified assurance that the completed pavement met the required performance criteria. The combination of an experienced Manchester Airport team, on-site concrete batching and carefully coordinated working enabled the complex scheme to be delivered safely, efficiently and with minimal disruption to ongoing airport operations

