

Bridge Abutment / Approach Backfill / Retaining Wall Backfill

Logan International Airport, Boston, MA

Central Artery/Tunnel Project

2001-2003

Density: 30 pcf & 40 pcf

Volume: 90,000 cy

As part of the Central Artery/Tunnel Project, the I-90 and Route 1A connector roads at Logan Airport were being reconstructed over the existing compressible fill soils. To reduce construction costs and vertical loading, designers chose MSE wall panels with Provoton foam concrete backfill to build 5 bridge abutment ramps and one raised grade road section. This is a very cost-effective method of building retaining walls and raised grade structures over soft soils without the need of extensive piling, cantilever walls or surcharging. A leveling pad is placed for the MSE panels to sit on, then the foam concrete is placed in lifts as the wall panels are erected, anchoring the horizontal strapping in place. The wall panels serve as forms and erosion protection, providing a settlement free construction.



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