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Data Acquisition and Management for Geotechnical Instrumentation on the Central Artery/Tunnel Project

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Abstract: Boston’s Central Artery/Tunnel Project has implemented a unique method of subcontracting for monitoring geotechnical instrumentation. The M026J contract includes a provision for the collection of 1.3 million readings over a six-year period. The contract uses a fixed unit cost per reading. This paper describes some aspects of the data acquisition and management processes that handle the flow of data for the project.

Keywords: instrumentation, data management, databases