



Completed MesseTurm building in Frankfurt.

MesseTurm Frankfurt

Frankfurt, West Germany

Mueser Rutledge Consulting Engineers (MRCE) performed design review and consulting for the foundation for the 256 meter high MesseTurm, the tallest building in Europe at the time it was constructed.

The foundation is a "piled raft" designed by a team of German consultants. The 6 meter thick mat bears on clay at a depth of 14 meters below street grade. Bored piles extend to depths of 27 to 35 meters below the mat, but do not fully penetrate the thick clay stratum. MRCE consulted on the properties of the Frankfurt clay bearing soil and suggested modifications to the pile design to reduce the potential for building tilt. Subsequently to successful completion of the building, MRCE has continued to consult with the developer to monitor the potential effects of dewatering as part of subway construction that was done adjacent to the building.