



## CONSTRUCTION MATERIAL TESTING FOR MANCHESTER CIVIC CENTER

**Location:** Manchester Civic Center, Manchester, NH

**Structure Specs:** 10,000 cubic yards of concrete  
250 tons of reinforcement  
206,000 square feet of slab work  
10,000 + seat Civic Arena  
230,000 square foot civic center

**Subsurface Conditions:** pressurized fine grained glacio lacustrine soils

**Cost of project:** \$67 million

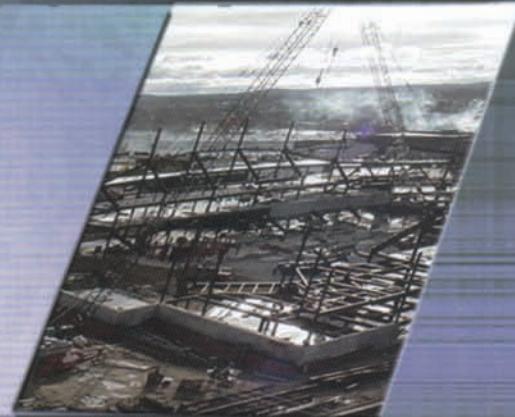
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GSI had several responsibilities on this large project consisting of contracts with the excavation contractor and City of Manchester.

The site excavation required extensive dewatering; GSI provided consulting services for the predrainage system and discharge treatment design. These effort were hampered by the pressurized fine grained glacio lacustrine soils.

GSI also supplied construction materials testing for the project and worked closely with Gilbane Corp. and Harvey Construction company. Construction monitoring services included:

- ◆ Soils inspection & testing
- ◆ Concrete inspection & testing
- ◆ Masonry inspection & testing
- ◆ Reinforcing inspection
- ◆ Precast concrete inspection field & fabrication plant
- ◆ Structural steel inspection, testing field & fabrication plant
- ◆ Fireproofing inspection & testing



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# CASE STUDY