

TIRE MANUFACTURING FACILITY

South Carolina



Client Name:
Major Tire Company

Services Provided:
*Architectural, Civil,
Structural, Piping,
Electrical, and Controls*

Project Size:
650,000 square feet

O'Neal provided the full-service design for a 650,000-square-foot facility for the manufacture of earthmover tires...the largest of their kind in the world. The final design was preceded by civil and mechanical studies aimed at identifying optimum solutions for site, regulatory, and HVAC requirements.

An unusual and technically challenging feature of the project was the 18' deep basement in the tire curing area, which measured 66' in width and 528' in length. Approximately 60,000 cubic yards of earth were excavated for this basement, whose floor contains 6,000 cubic yards of concrete.

Other significant design elements include:

- A 1750 kVA uninterruptible power supply system for boilers, critical process equipment, and life safety
- Two 85 tonne cranes and one 35 tonne crane
- Process utility generating equipment and piping distribution systems
- Foundation walls and columns of precast concrete, saving two months construction time
- 13.8 kV internal power distribution, and 14 unit substations

O'NEAL
The Business of Project Delivery

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