

*"Pouring the Future, Preserving the Past"®*

# QUINN CONSTRUCTION, INC.®

University of Notre Dame - Old Bowl Stadium, Lower/Old seating Bowl sections 1-36  
South Bend, Indiana

OWNER: [University of Notre Dame](#)

ENGINEER: [Simpson Gumpertz and Heger, Inc.](#)

## PROJECT DESCRIPTION

Quinn Construction, Inc. has been involved with the preservation of the Old Bowl Stadium since 2007.

### Rehabilitation work performed yearly included:

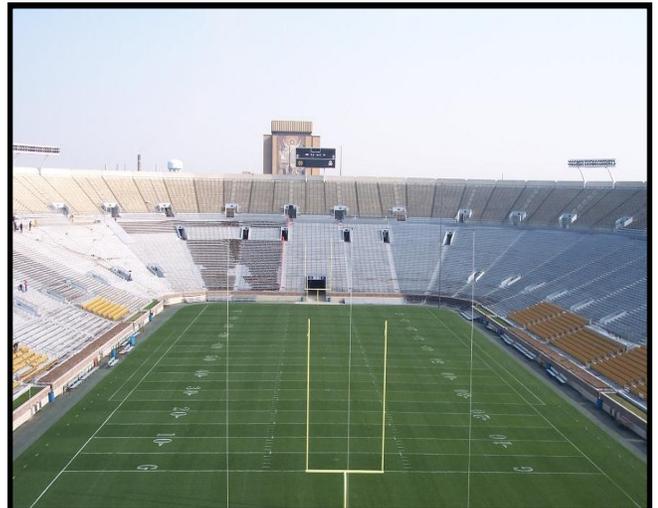
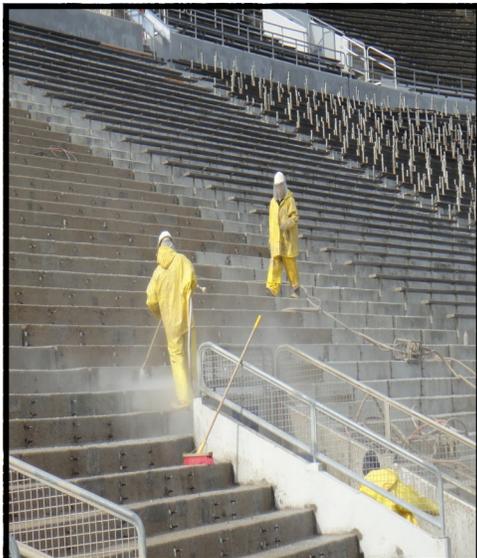
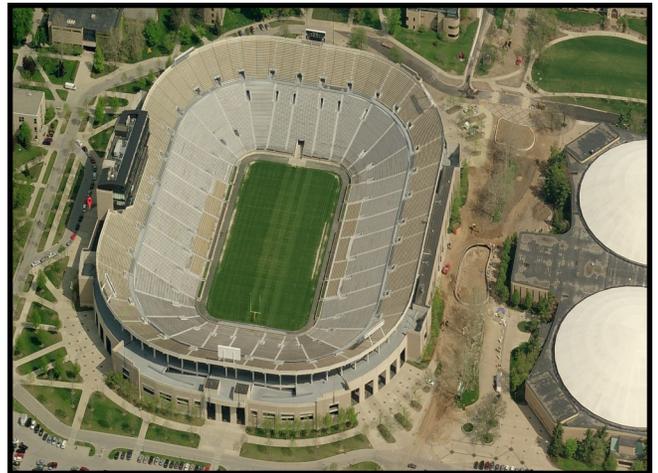
- ◆ Removal, repainting, and storage of seating.
  - ◆ Erecting scaffolding to access the entire underside of the work area.
  - ◆ Hydro demolition to gently remove existing coatings and freeze/thaw deteriorated concrete without causing additional damage.
- ◆ Concrete repair using primarily form-and-pour repairs.
- ◆ Installation of a cementitious parge coat on all on-grade seating areas.
- ◆ Removal and replacement of expansion joints.
- ◆ Installation of a customized five-coat pedestrian traffic bearing waterproofing system on the elevated portion of the stands to prevent future water infiltration.

## CHALLENGES

University embarked on a multi-year phased approach to preserve the Stadium and its proud traditions.

## SOLUTIONS

Repaired the deteriorated concrete on the topside and underside of stadium. Installed a waterproofed urethane coating to protect the structure.



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In addition to the repair of the seating area, a major reconstruction of the walls of the Ceremonial Processional Tunnel was implemented that required:

- ◆ Removal of all unsound concrete.
- ◆ Shoring of tunnel walls.
- ◆ Forming and pouring new walls.
- ◆ Coating all walls and reinstalling handrails.



**TOTAL PROJECT SCOPE COMPLETED AS OF 2012:**

- ◆ Shallow and full-depth concrete repair.—appx.19,140 sq. ft.
  - ◆ Column and beam concrete spall repair.—appx.1,947 sq. ft.
- ◆ Cementitious parge coat of on-grade seating area.—appx.50,050 sq. ft.
- ◆ Vertical and Horizontal expansion joint replacement.—appx.6,590 LF.
- ◆ Hydro demolition and pedestrian coating system installation.—appx.266,250 sq. ft.
  - ◆ Underside acrylic coating system.—appx.371,650 sq. ft.
  - ◆ Vertical and overhead concrete repairs.—appx.5,647sq. ft.



Tented in processional tunnel to keep repairs protected from harsh winter weather.



Brace support and tunnel demolition

