

**IOWA STATE UNIVERSITY  
JACK TRICE STADIUM  
PARKING LOT IMPROVEMENTS  
2002**

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**PROJECT SPONSOR:**

Iowa State University  
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**PROJECT LOCATION**

Jack Trice Stadium  
Iowa State University, Ames, Iowa

**PROJECT CONCEPT**

Iowa State University staff identified a growing need for additional student car parking for the campus in addition; an expansion of Reiman Gardens adjacent to Jack Trice Stadium increased the demand for parking. The existing pavement had served beyond its design life and was in need of rehabilitation.

**PROJECT CHALLENGES**

1. The existing pavement had failed beyond a simple overlay repair.
2. The current need for student parking storage required construction be completed between end of the spring semester and the start of the fall semester.
3. The proposed new lots were located in the flood plain of Squaw Creek in very flat terrain.
4. Proposed improvements were designated to protect the All-American Walk, including trees representing each All-American Athlete from Iowa State University.
5. Traffic circulation within the lots was poor. Traffic was utilizing adjacent sidewalks for circulation damaging sidewalks and All-American trees.



**PROJECT ACCOMPLISHMENTS**

Snyder & Associates, Inc. was involved in the planning stages in 1999 as part of a campus-wide parking capacity study. The study identified four new lots adjacent to the stadium. The lots proposed generally followed the theme of those proposed in the original 1970's layout.

The project added 699 new spaces and rehabilitated 669 spaces for a total capacity of 1,839. Project activities also included lighting improvements, bus stop installation, overflow parking, grading and drainage improvements. The entire project including "wish list" items were constructed within budget. Through coordination of Iowa State University staff, approximately 20,000 cubic yards of fill material was supplied to the project from other Iowa State University construction projects, saving approximately \$60,000 over contractor furnished soil borrow material.

The existing parking lots were widened and rehabilitated by recycling the existing asphalt, by mixing it with subgrade soil and imported flyash, and compacting the mixture as a stabilized subgrade. A six-inch HMA overlay completed the rehabilitation. Snyder & Associates, Inc. partnered with Iowa State University and the Iowa Department of Transportation to conduct before and after testing using a falling weight deflectometer to collect data on the structural improvement of the subgrade using flyash stabilization. The data will be shared and used to plan future projects.

The site circulation problems were addressed with the use of curbs and curb islands at the stadium sides of the parking lots. Sidewalks and pedestrian ramps were located to discourage vehicular traffic and protect the All-American walk.