
steel shop drawings were measured down to $1 / 16$ of an inch, so it would all fit together.
"It was impressive," Kells says.
A thorough review of the shop drawings also helped save time and money, Kells said, because he noticed the placement of some anchor bolts needed to be adjusted. The anchor bolts carry most of the wind resistance in a structure with such an open floor plan, and it would have been a difficult problem to fix once they were fastened to concrete.
"If you double- and triple-check on paper, it alleviates problems out in the field," Kells says. "With a project this complex, it was extremely important that we had open lines of communication with the contractor and the fabricator."

## 'Talk of the Town'

Crews have completed much of the building's frame, and tribal leaders began moving into the facility in December. When the move is complete, the building will combine services now housed in four locations, ending a system many tribal members found confusing and frustrating. At the center of the structure, because of its turtle-shape, there also will be a high ceiling ringed by windows where the Tribal Council will hold its meetings. "It's a grand space—very impressive," says Che' Clark, lead designer for Native American Design Services.

Tribal leaders are excited that they will be able to better serve their members. They also know the building will serve as a landmark for future generations.


Above: A built-up platform at the center of a 63 - ft girder truss provides the upper support for the steel joists supporting the roof.

Opposite page: The girder truss was built out from both sides of this weldment, which was inverted to form the center support for the upper ring of steel joists.
"It's already the talk of the town," said Alex Baker, the Lumbee Tribe's public information manager. "This is something that is going to instill a lot of pride in our community and in our heritage."

## Architect

Native American Design Services, Pembroke, N.C.
Structural Engineer
Tower Engineering Professionals, Raleigh, N.C.
General Contractor
MetCon Construction, Pembroke, N.C.
Steel Fabricator
Griffin Steel \& Supply, Goldsboro, N.C. (AISC Member)

## Steel Detailing

Nucor Vulcraft Group, Florence, S.C. (AISC Member) Queen Engineering \& Design, Raleigh, N.C. (AISC Member)
Joist/Deck Supplier
Nucor Vulcraft Group, Florence, S.C. (AISC Member)
Structural Design Software
Risa-3D
Steel Drawings Software
AutoCAD 2008


