

Basic Info:

Completion: 1998, (Opening: November 22, 1998)

Construction Cost: \$36 Million

Architect: Lockwood, Andrews & Newman, Inc.

Engineering Consultant: Walter P. Moore.

Contractor: Hunt (Huber, Hunt and Nichols, Inc)

Capacity: 12,500

Home of the Texas A&M Men's and Women's Basketball Teams

Construction History:

- -Sub Contractors- Irwin Steel Erectors and Anthony Crane Rental are the center of a collapse of the structure while under construction.
- -250 tons of box beam, fell 80 feet to the ground.
- -Lawsuit Filed

Greater than \$6,000,000 awarded by a jury.

Unique Design:

- -"Table Top" Box Truss
- -Composite columns: Concrete with

W14 steel sections

- -Petrified Palm Trees found underneath the site.
- -Underground Spring.
- Truss system supports both the catwalk and equipment rigging



Financial History:

"The arena is named for Houston veterinarian Dr. Chester J. Reed, a 1947 graduate of A&M, and his wife, Billie Jean. In 1986, the Reeds contributed 265 acres of undeveloped land west of Houston to the university, forming the nucleus of assets used to fund the facility" http://www.aggieathletics.com/facilities.php?FID=11

Actual Funding:

\$35.8 Million from Texas A&M General Use Fund. (Paid by Student Fees)

- + \$1 Million from the donated land.
- = \$36.6 Million

-Texas Higher Education Coordinating Board controversy.

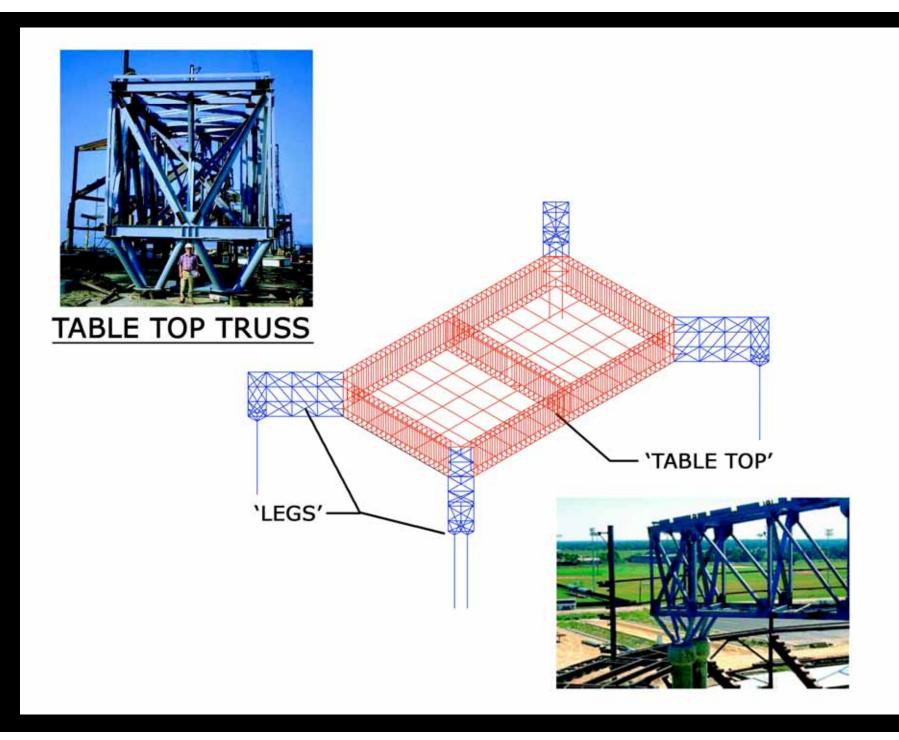
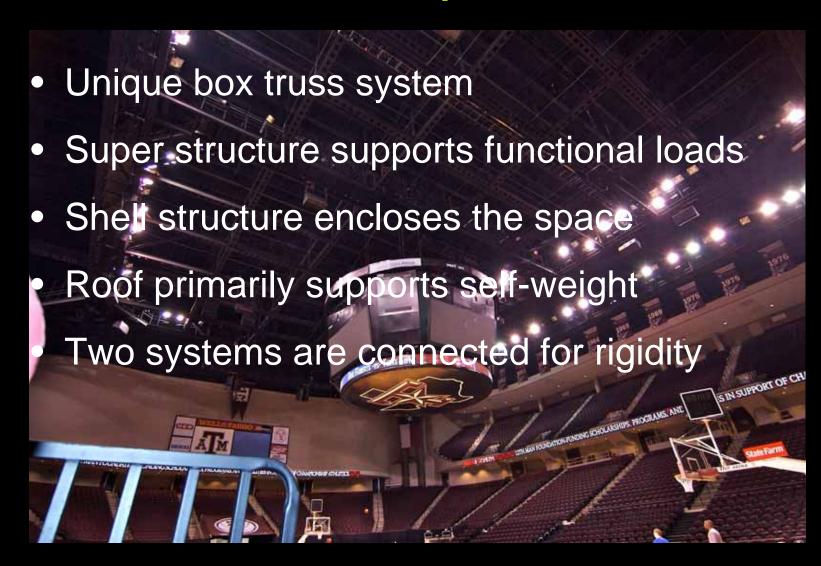
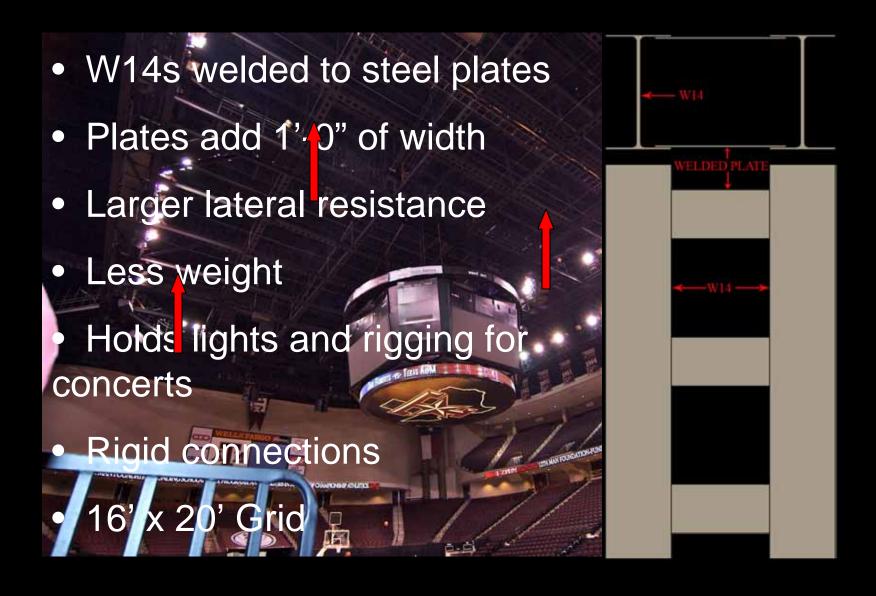


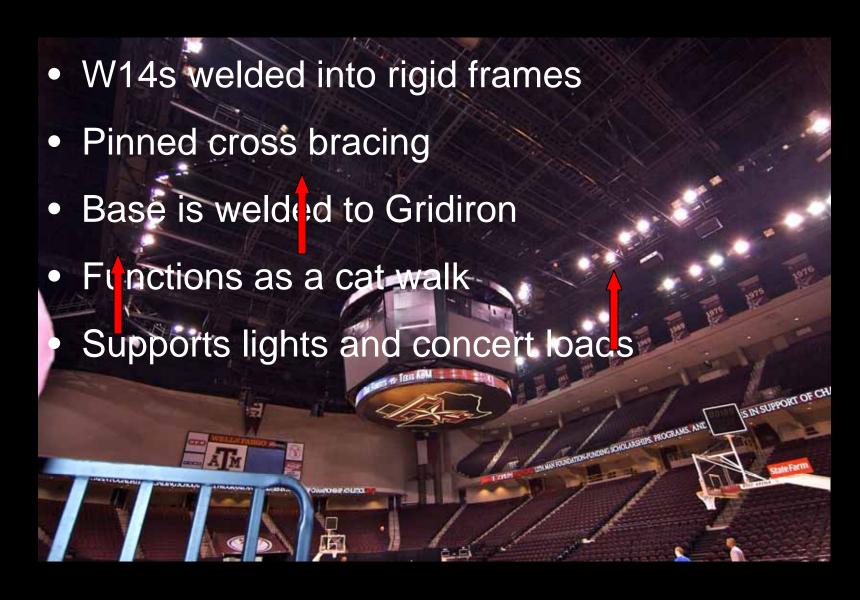
Table Top Truss



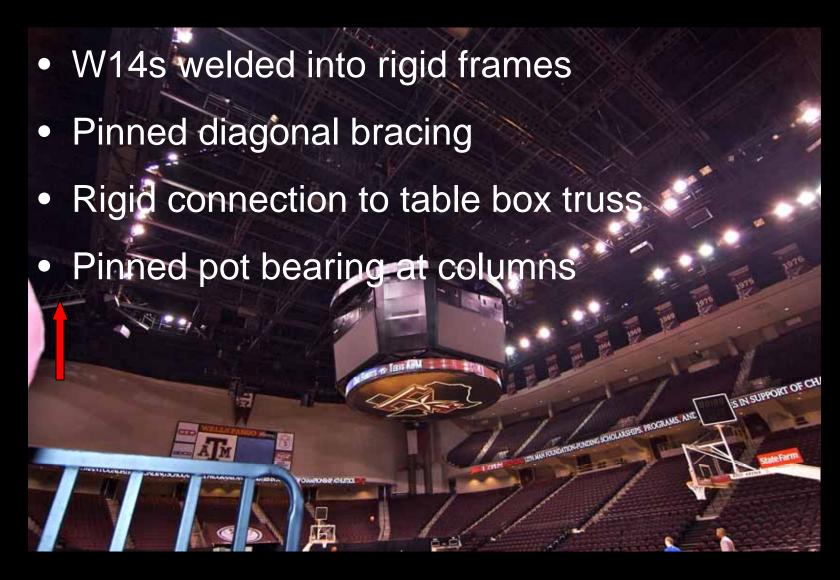
Gridiron



Cat Walk Box Truss



Leg Truss



Leg Truss

Gusset Plate

Cross Bracing

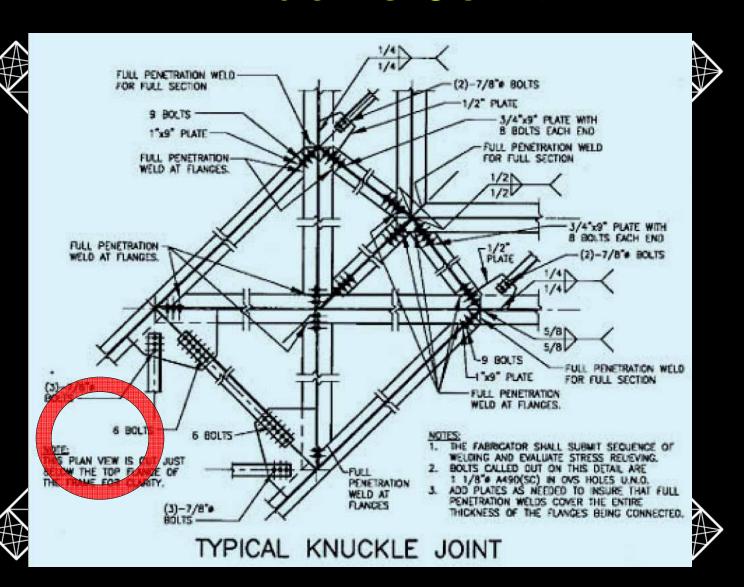
Stiffening Plate

Welded W14

4'-0" diam. Base Plate

10" diam Pipes

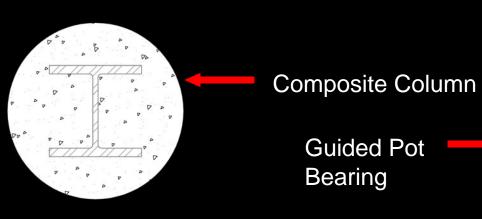
Knuckle Joint

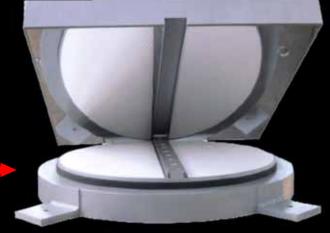


Columns

- Composite of W section and concrete
- Concrete provides fire protection and extra bearing capacity
- 5'-0" at cap to resist shear and tapers to 4'-0" to limit material
- Pot bearings between cap and column





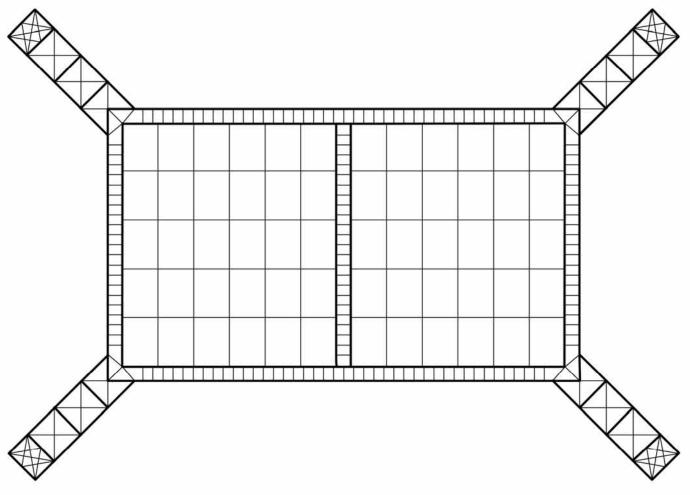


Columns

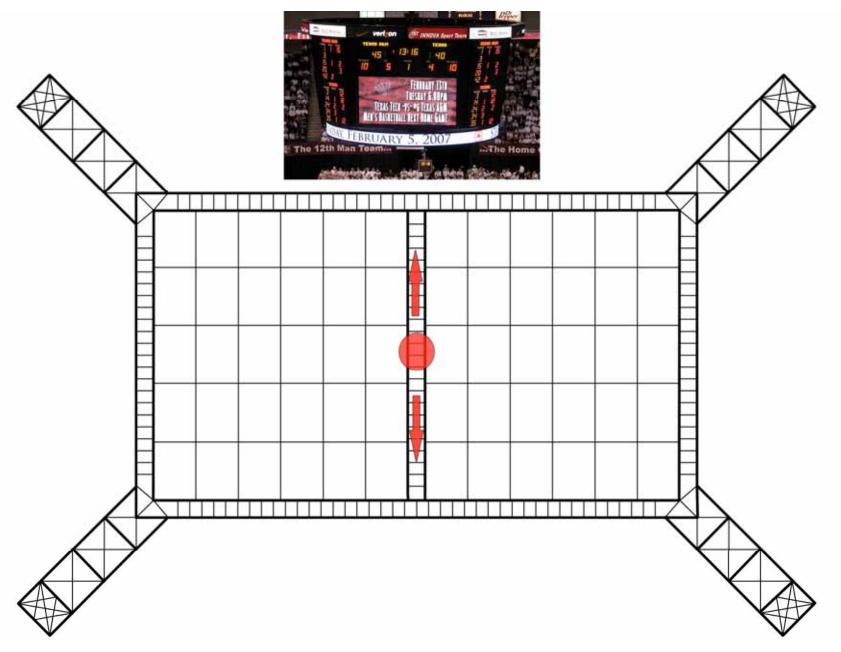
- Columns connect to belled and under-reamed piers
- Under-reaming spreads the columns load and resists uplift from clay soil
- Steel base plate is covered with concrete cover.
- Soil berm from pouring is left until expansion is needed



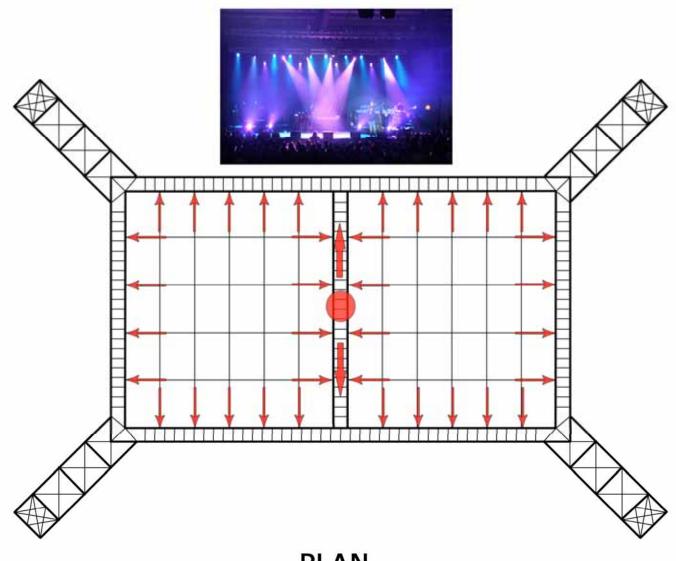




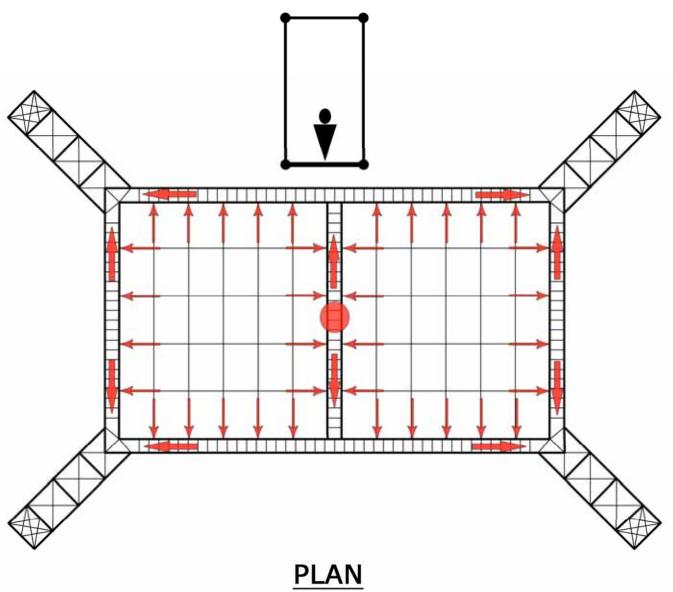
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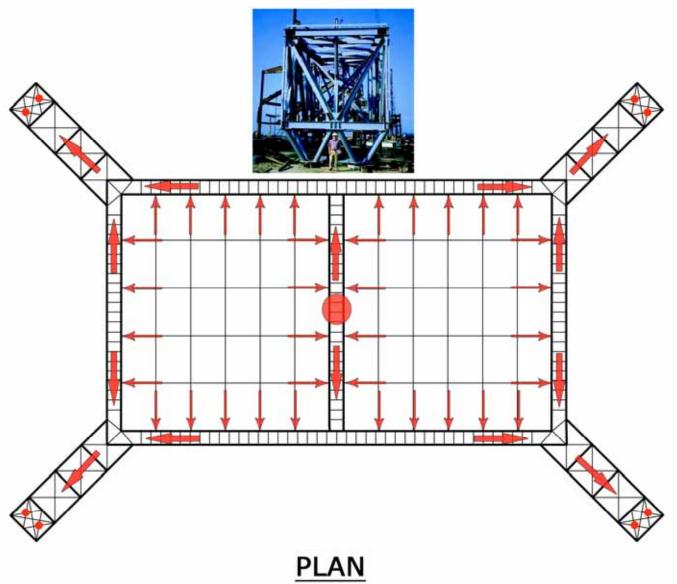


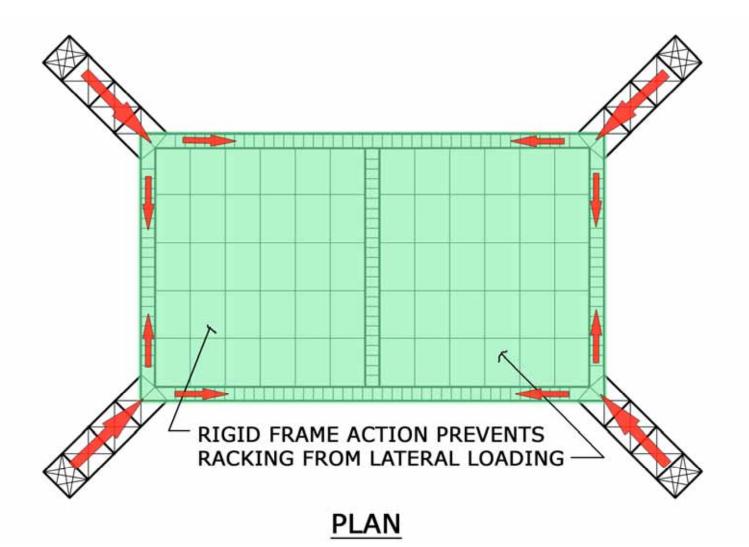
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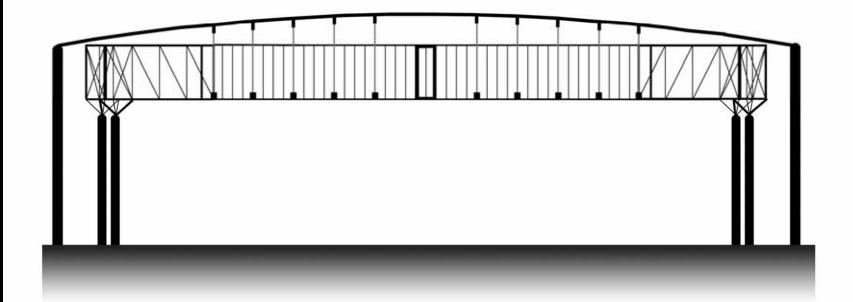


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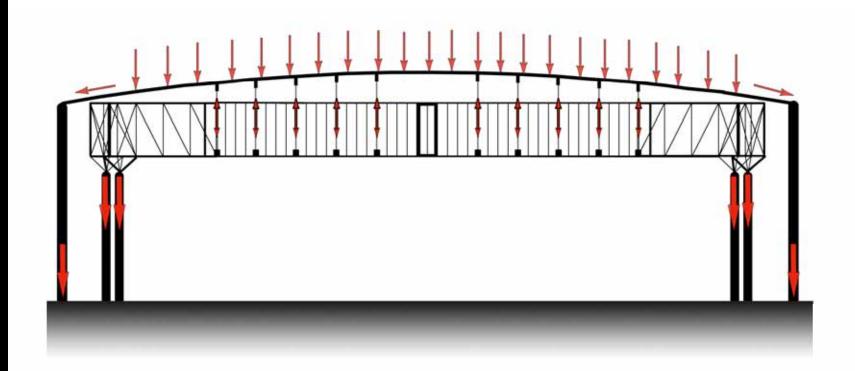




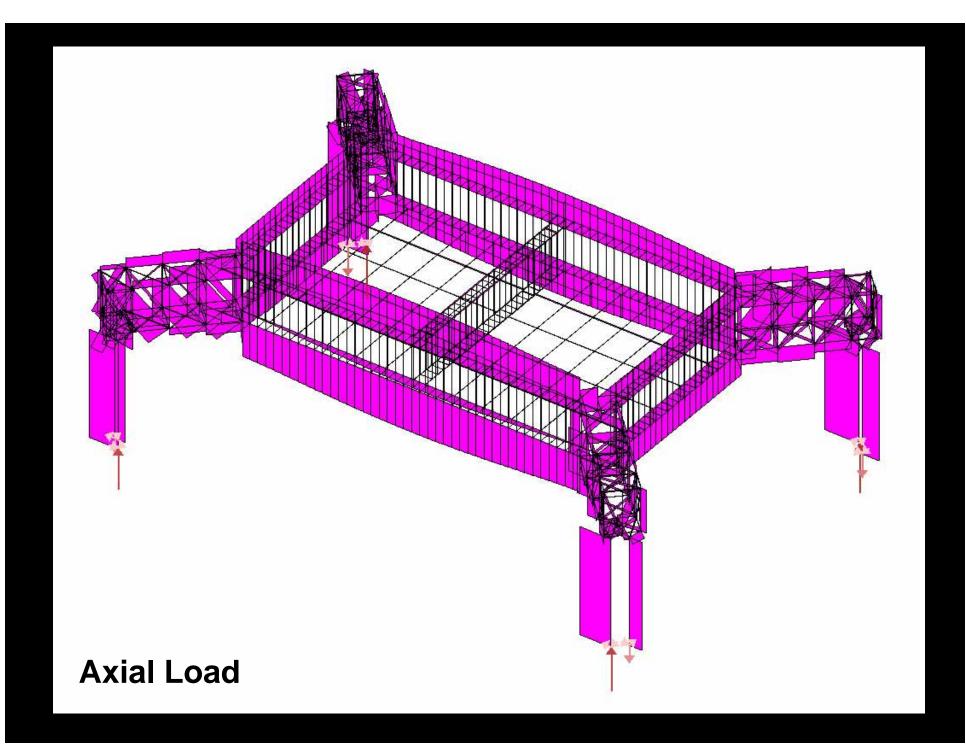


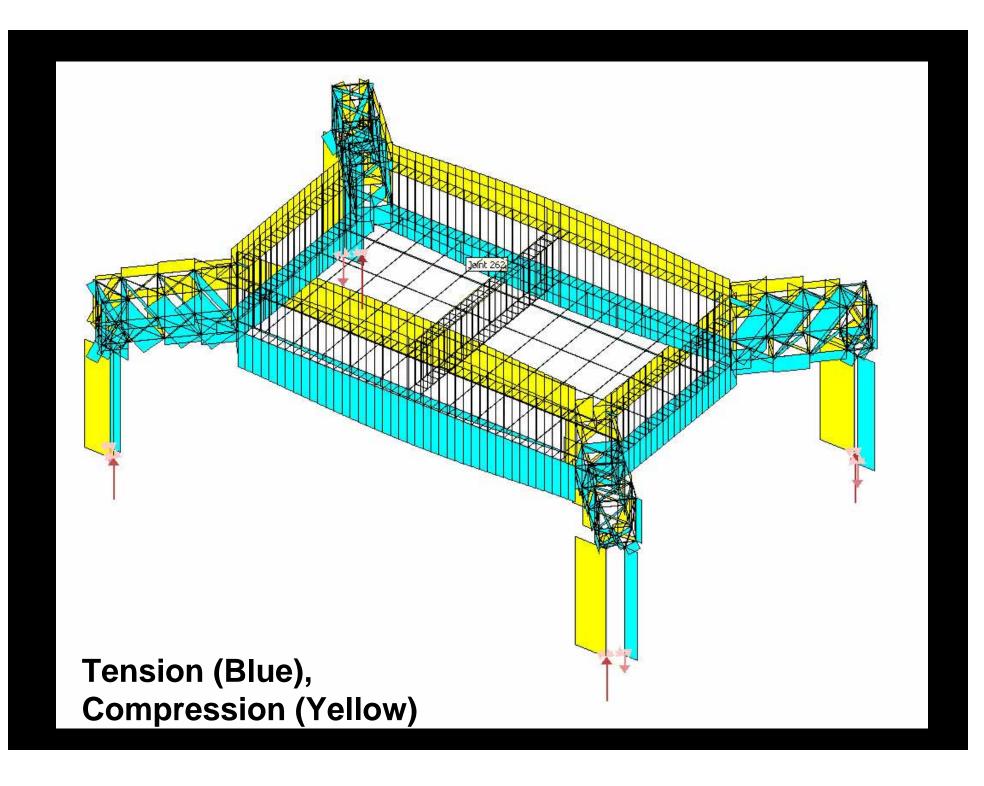


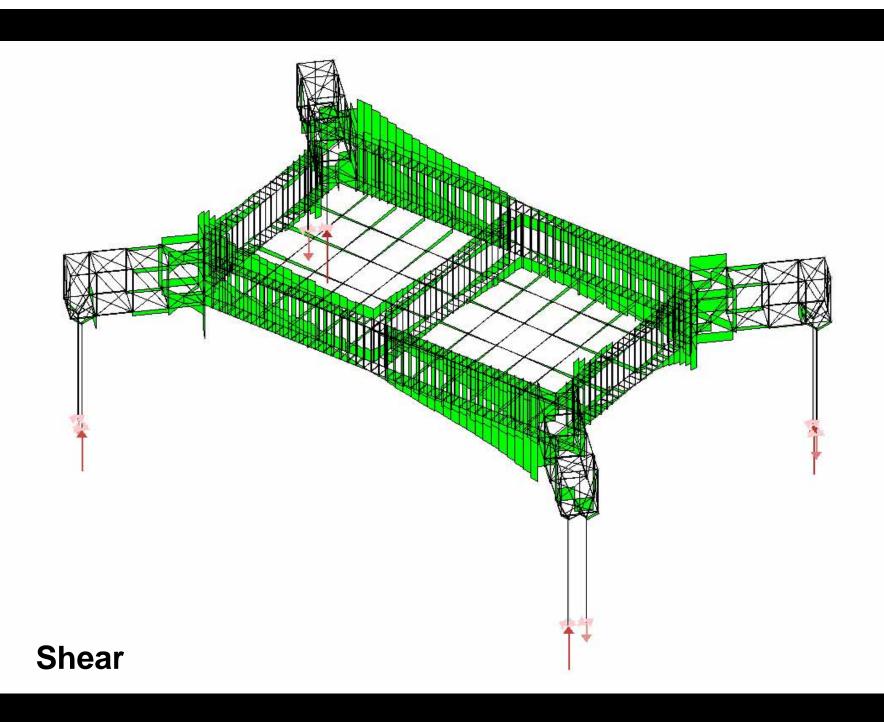
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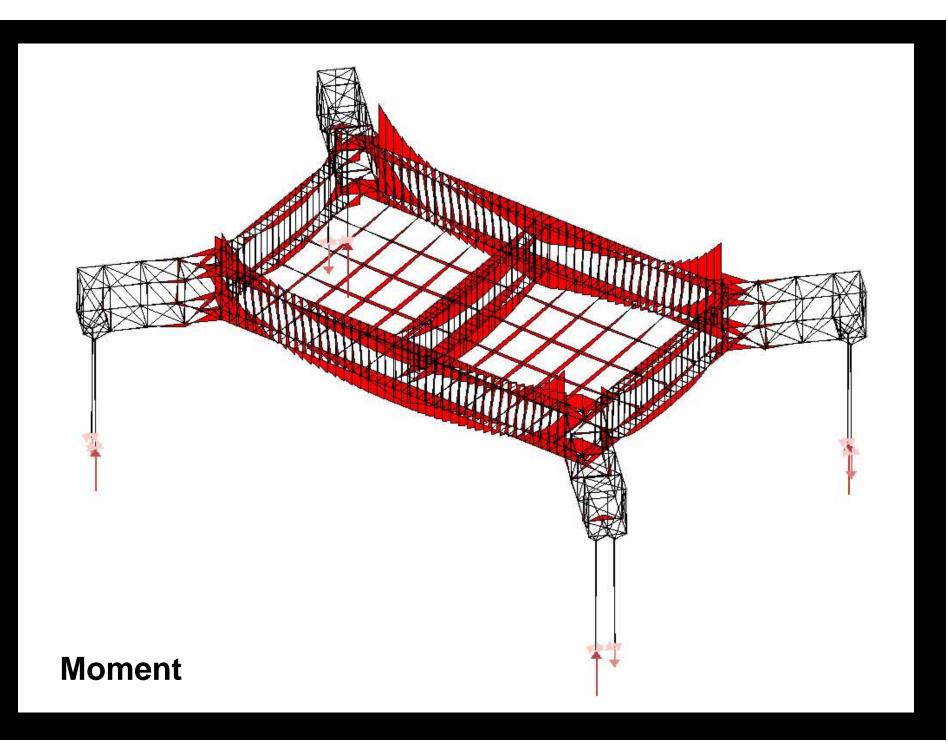


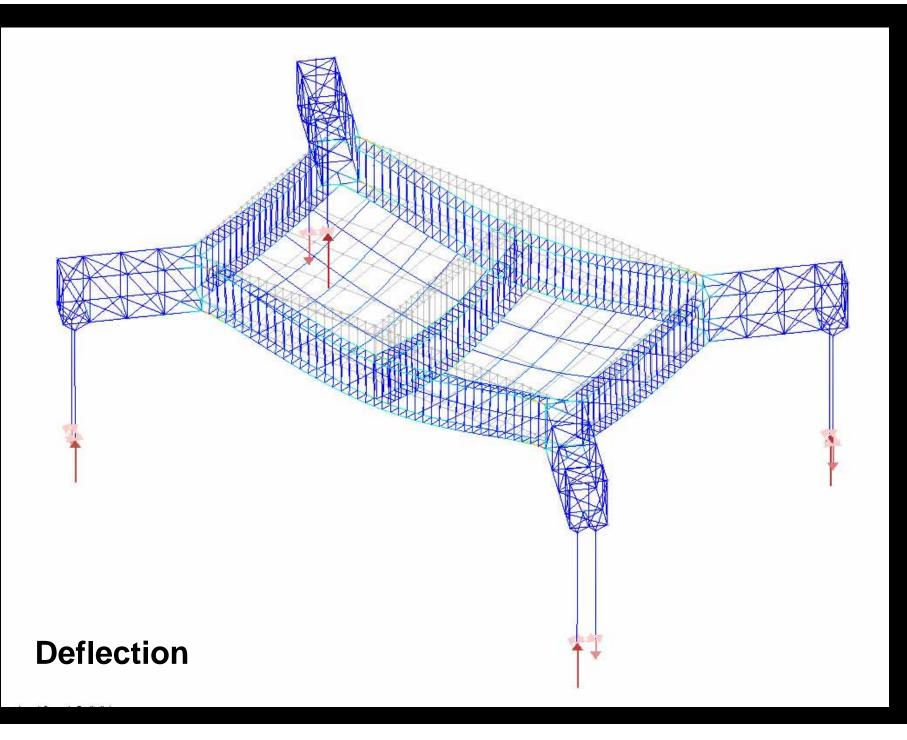
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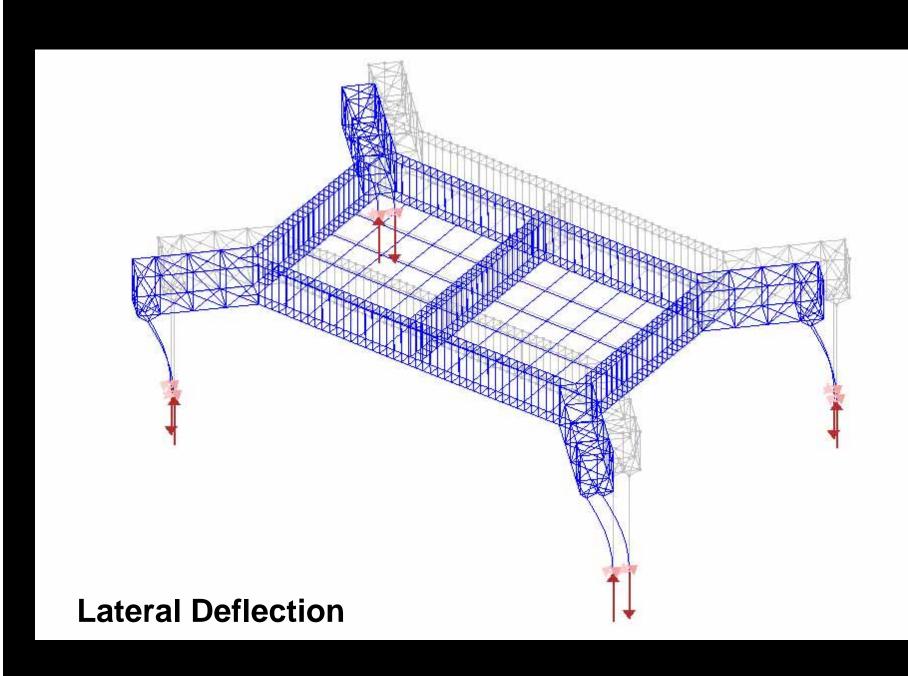












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