

Rigging

Grid Location:

After careful consideration of the venue structure and the typical types of shows currently touring, we decided the set location of the permanent grid be placed above existing tension cables and below the catwalk, maximizing allowable trim height, therefore, allowing a much larger scope of production event accommodations.

By positioning the grid above the suspension cables, it locates bottom truss position at 79'-6", which enlarges the allowable trim height to approximately 66'-6". Being that today's audio array trimming standard is (up to) 70', positioning the grid in this manner maximized available space, allowing larger show productions the opportunity truly utilize the venue to its ability.

Additionally, grid plan minimizes the distance workers previously traveled between ceiling beams, and the catwalk and grid, maximizing time, labor hours and, ultimately, total production costs.

The grid has an offset position from the existing roof trusses, accomplishing the overall plan. Offset position also allows existing roof trusses and tension cables to remain viable rigging point positions, if need be.

Grid Details

A. TRUSS

Grid is composed of 24" x 20.5 custom aluminum truss, constructed with 2" OD round tubes (.1875" wall thickness) for the main chords with integrated rigging points at every intersection. Rigging plate has dedicated hole on the bottom allowing dead-hang points or single bridle-leg hangs ability to attach easily during production load-in/load-out.

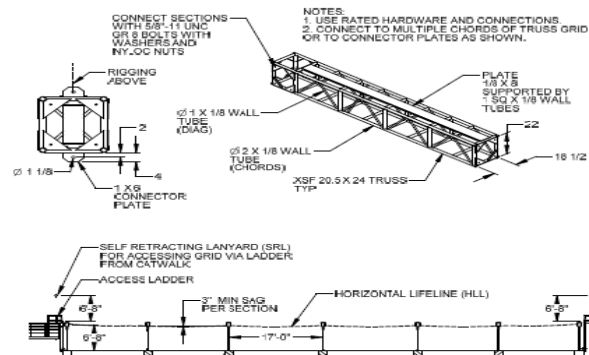
Grid is equipped with an 8" wide walking catwalk welded over the top surface of each piece creating a solid sure-footed means to traverse the grid.

Overall grid dimensions approximately 95'-10.5" x 93'-0-8.5". Bays are approximately 15'-17' each. Grid is symmetrical from stage right to left, facilitating uniform rigging plots and bridles.

B. FALL PROTECTION

Each piece of grid truss equipped with dedicated fall protection, 8" integrated catwalk and a Horizontal Lifeline (HLL) directly above each piece, providing 100% safety support and coverage throughout entire area and surface of the grid.

HLL system is located approximately 6'-6" above truss walking surface. Each HLL has a capacity of four (4) people per any span.



Completely utilizing this system, High Steel workers to use bypass type lanyards, connecting harnesses to HLL system, which attaches worker to single HLL, transferring to the next HLL, while safely remaining

attached at all times, ensuring 100% tie-off.

C. ACCESS

Three (3) entrance/egress points to grid – one located on the stage left side, one on the stage right side and one downstage center, all accessed by means of a custom crossover bridge/ladder, allowing users direct access to the grid via the catwalk.

Design Benefits / Advantages

A. For the Venue

- I. Grid design increases venue appeal to a wider range our event productions
- II. Increased overall safety for workers and venue itself
- III. Because location set above tension cables, grid remains out of sightlines making it considerably less noticeable when not in use

B. For Show / Tour Productions

- I. Significantly reduces re-production costs
- II. Concentrates time spent loading-in/out
- III. Symmetrical rigging points
- IV. Uncomplicated Bridle Calculations
- V. Increased available dead-hang points
- VI. Higher trim height for larger productions
- VII. Maximized capacity to facilitate larger range of productions

Weight Limits

- Maximum ceiling hang (including grid system) 225,000 lbs.
- Maximum single truss hang (entire length of truss) 24,000 lbs.
- Maximum weight between two (2) intersecting trusses 8,000 lbs.

Distance

- Floor to bottom cable 75'
- Floor to bottom of grid (at high trim) 78'
- Floor to catwalk 85'