

Section 2 — Unit Specifications

Purpose of the Stage

This 50 x 40 Hydraulic Stage has been designed and constructed to provide a transportable stage to be used for temporary venues.

An out and down outrigger system provides for the stability of the deployed stage, the tower system provides for raising and lower the roof, the roof tilt system is used to move the primary roof from vertical to horizontal and to deploy the secondary roof; and the floor system is used to take the folded floor from vertical to the horizontal position.

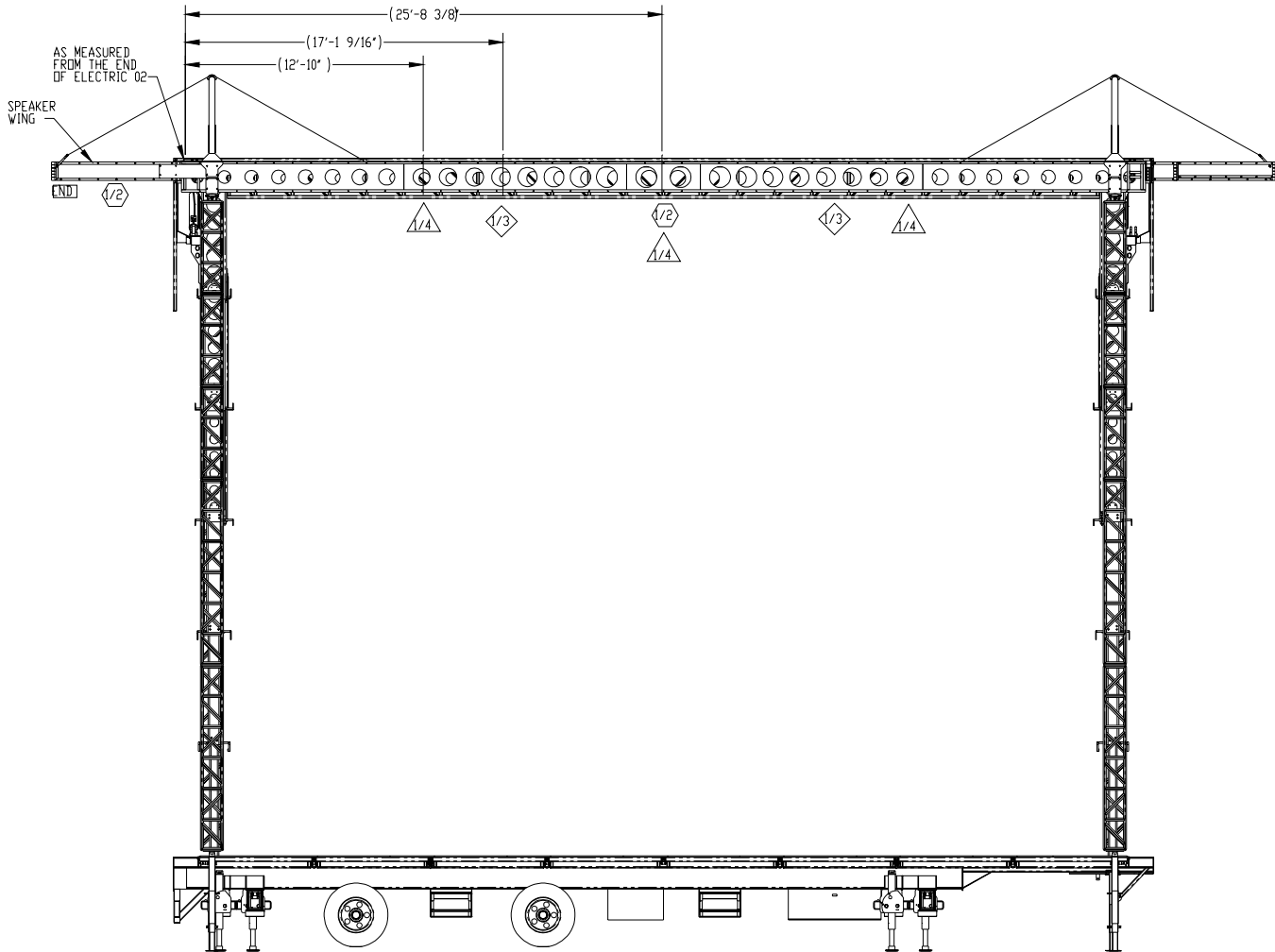
General Specifications

The Stage consists of four distinct hydraulic systems that are designed for depolyment of the stage from the travel condition to the fully deployed stage and back to the travel condition.

Item	Specification
Travel height	13' 3"
Overall width	102'
Total trailer weight	55,165 lbs
Distance to front trailer axle from kingpin	29' 11"
Distance to rear trailer axle from front trailer axle	10' 1"
Hydraulic pump engine	20 HP
Hydraulic pump capacity	3.0 GPM
Hydraulic pump max pressure, continuous	4,000 psi
Hydraulic pump max pressure, intermitent	4,400 psi
Hydraulic oil reservoir capacity	40 gallon
Hydraulic fluid	Hydra 1000 R&OA/A.W., ISO #32
Deployed stage length and width	50' X 38'
Deployed roof length and width	53' X 38'
Maximum deployed stage height	80'
Maximum outrigger extension	27'
Outrigger spread	20'
Maximum height from stage floor to bottom of center truss	35' 4"
Intermediate height from stage floor to bottom of center truss	25' 4"
Total number of adjustable floor leveling speed jacks	40

Figure 2.1 — Stage Specifications

Capacity Diagrams

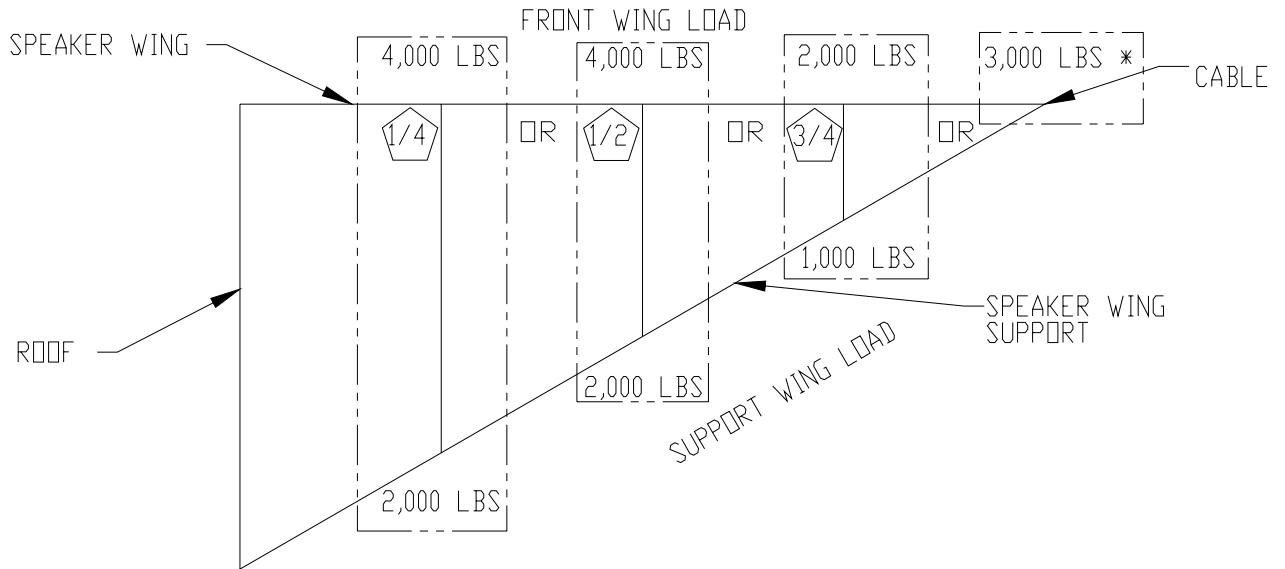


BEAM LOAD CHART

TRUSS		UNIFORM LOAD (LBS)	1/2 POINT (LBS)	1/3 POINT (LBS)	1/4 POINT (LBS)
BEAM 01	-	6667	2500	1600	1200
BEAM 02	-	2500	1300	950	650
BEAM 03	-	7000	3800	2700	1800
FLOOR		150 LB'S/SQFT	-	-	-

NOTE: ONLY ONE LOADING CONDITION PER BEAM MAY BE USED AT ONE TIME.

SPEAKER WING LOAD CHART



NOTES:

1. ONLY ONE LOADING CONDITION MAY BE APPLIED TO THE BEAM AT A TIME.
2. *END POINT LOAD IS ON FRONT WING NOT THE SUPPORT WING.

LIFT TOWER PINNING CHART

STAGE NUMBER	CEILING LOAD		
	32,334 LBS	22,334 LBS	12,334 LBS
1	N/A	N/A	N/A
2	PIN	PIN	PIN
3	PIN	PIN	PIN
4	PIN	PIN	PIN
5	PIN	PIN	PIN
6	NO PIN	NO PIN	NO PIN

NOTE: THIS CHART APPLIES TO ALL SET UP HEIGHTS.

