APEX 5040
MOBILE STAGE
GEN3



Owner/Operator in Southeast US:

mobilestages.miami / apex.miami

786-504-2369 786- 255-4949

Progressive Products Inc. 3305 Airport Circle Pittsburgh KS 66762 620.235.1712 apexstages.com

Apex 5040 GEN3 Mobile Stage

Rental/Sales/Service 786-504-2369 / 786-255-4949 apex.miami / mobilestages.miami



The APEX 5040 GEN3 features a 50' wide x 40' deep x 30' tall stage area and has more versatility than any other Apex stage built with a new mast column design that is stronger and more stable than ANY hydraulic stage to date.

The roof structure is capable of supporting a maximum of 102,000 lbs. The trailer frame is supported at six points by hydraulic controlled leveling out- riggers. These out-riggers allow the deck to be set between 4' and 6' high in order to adapt to most terrain and venue requests.

The California split axles are utilized to keep this within maximum legal limits without special use permits.

Currently, this stage may be utilized in different operational formats:

Basic 5040, as with previous generations, this stage has the ability to travel as one self contained trailer at legal weight and has two 8' fly bays. This set-up requires 6 guys to set up and strike in 3 hours.

Standard 5040, as above, this stage has two 12' fly bays. This set-up requires 6 guys to set up and strike in 3 hours.

"BEAST" 5040 has two 25' fly bays, each supporting 10,000lbs and requires NO ground support. It is capable of flying a 90' by 6' video banner, two 18' by 24' IMAG walls and a large 10,000lb + video wall on the upstage beam. In addition, it has multi point extended sound bays that support 4,000lbs each and are located in front of the corner vertical truss. This version has consistent up to down stage spanner beam system so lighting is not limited to pre-set locations. With additional spanner beams, fly points can be achieved almost everywhere under the roof. This set up does require additional transport and a crew of 11 to set up.

APEX 5040 GEN3 Mobile Stage

PHOTOS
"Beast" Mode









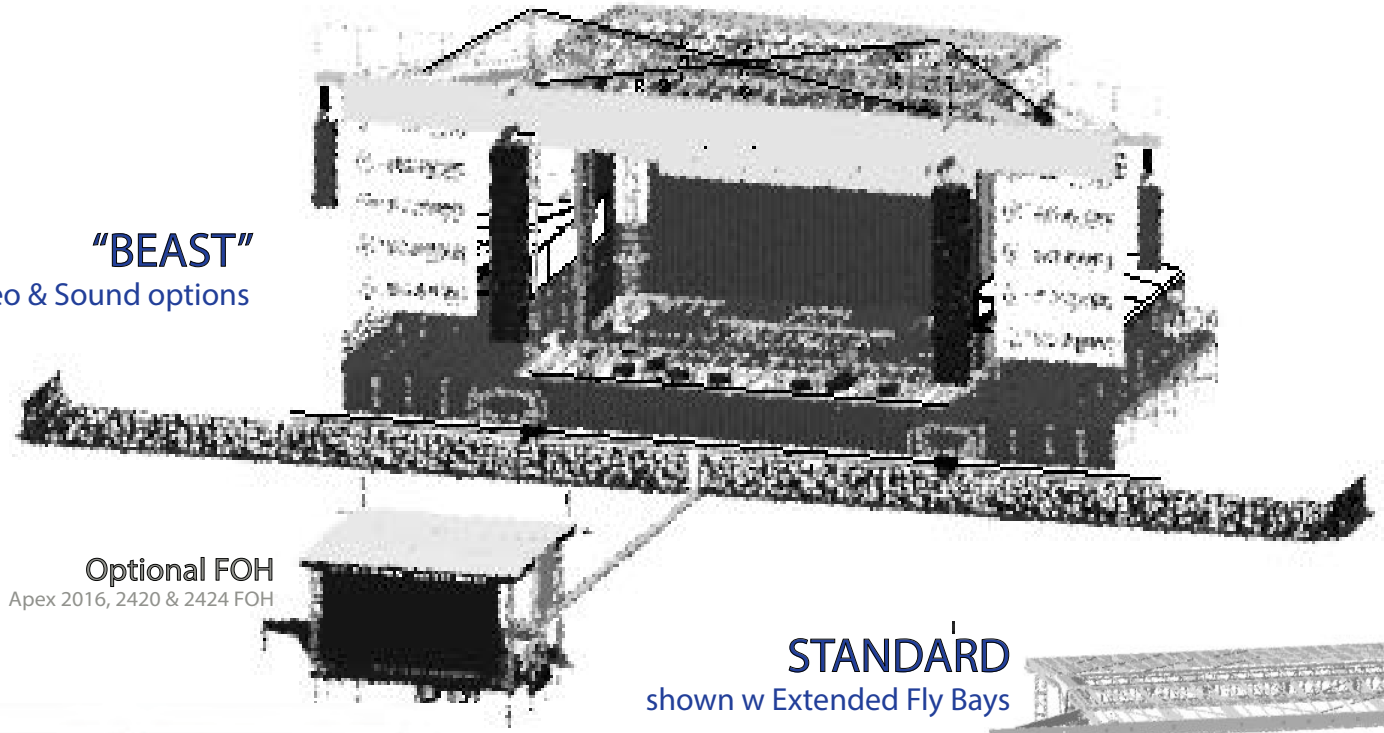




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APEX 5040 GEN3 Mobile Stage

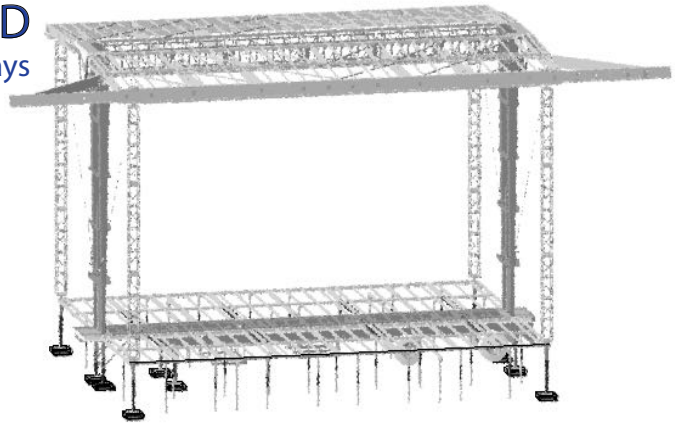
OPTIONS
Basic, Standard & "Beast" Modes

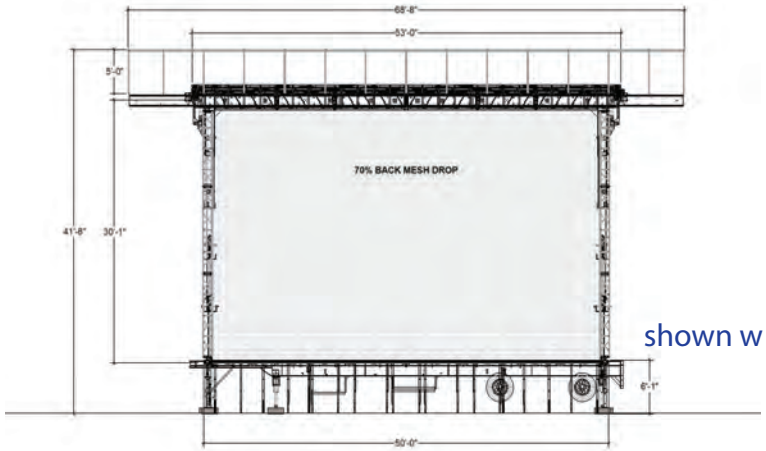


"BEAST"
shown w Video & Sound options

Optional FOH
Apex 2016, 2420 & 2424 FOH

STANDARD
shown w Extended Fly Bays





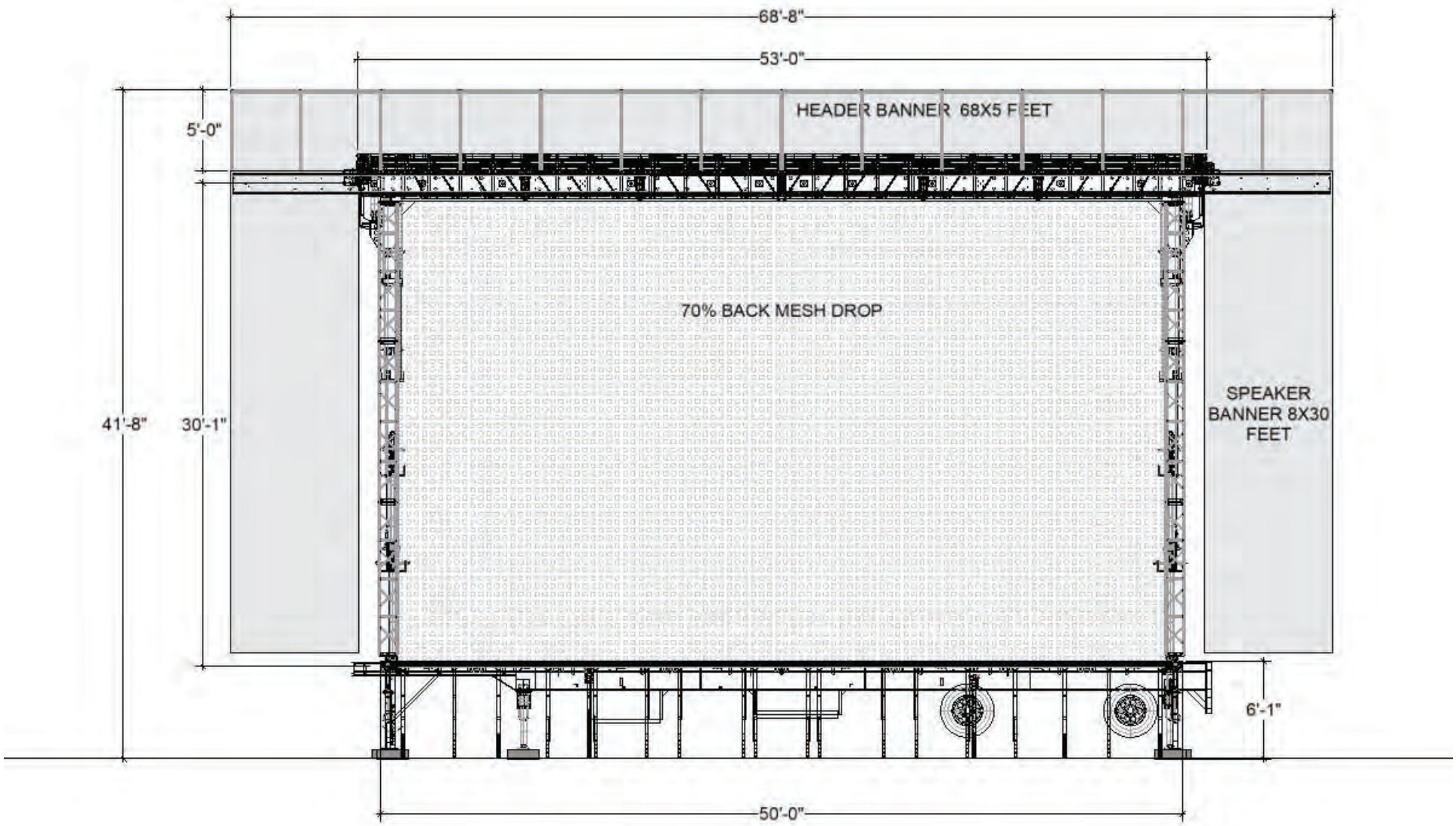
BASIC
shown w Banner Package

Additional Options Available:
Decking, Runways, Pavillion Tents & Loading Ramps

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APEX 5040 GEN3 Mobile Stage

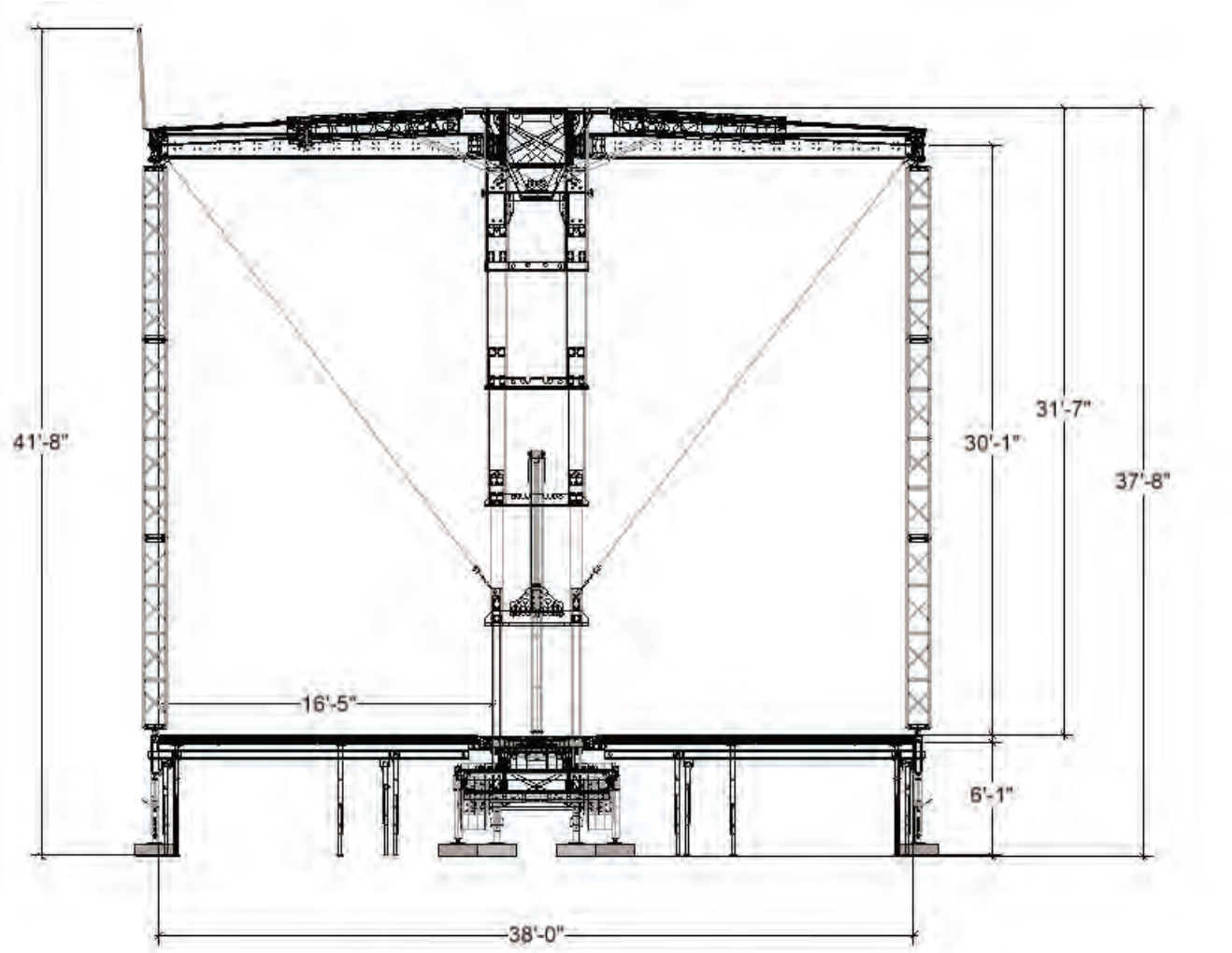
BASIC MODE
Front Measurements



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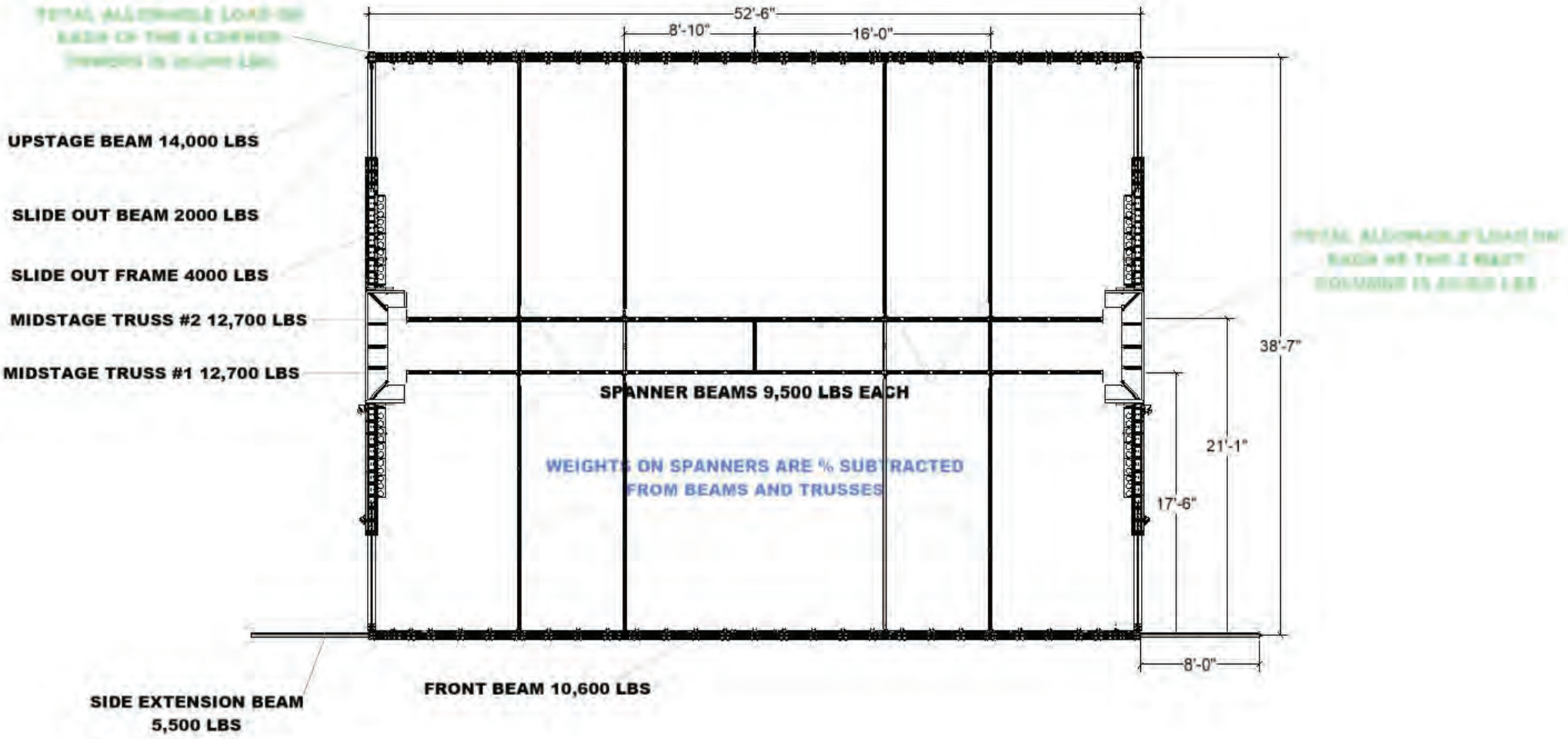
APEX 5040 GEN3 Mobile Stage

BASIC MODE
Side Measurements



APEX 5040 GEN3 Mobile Stage

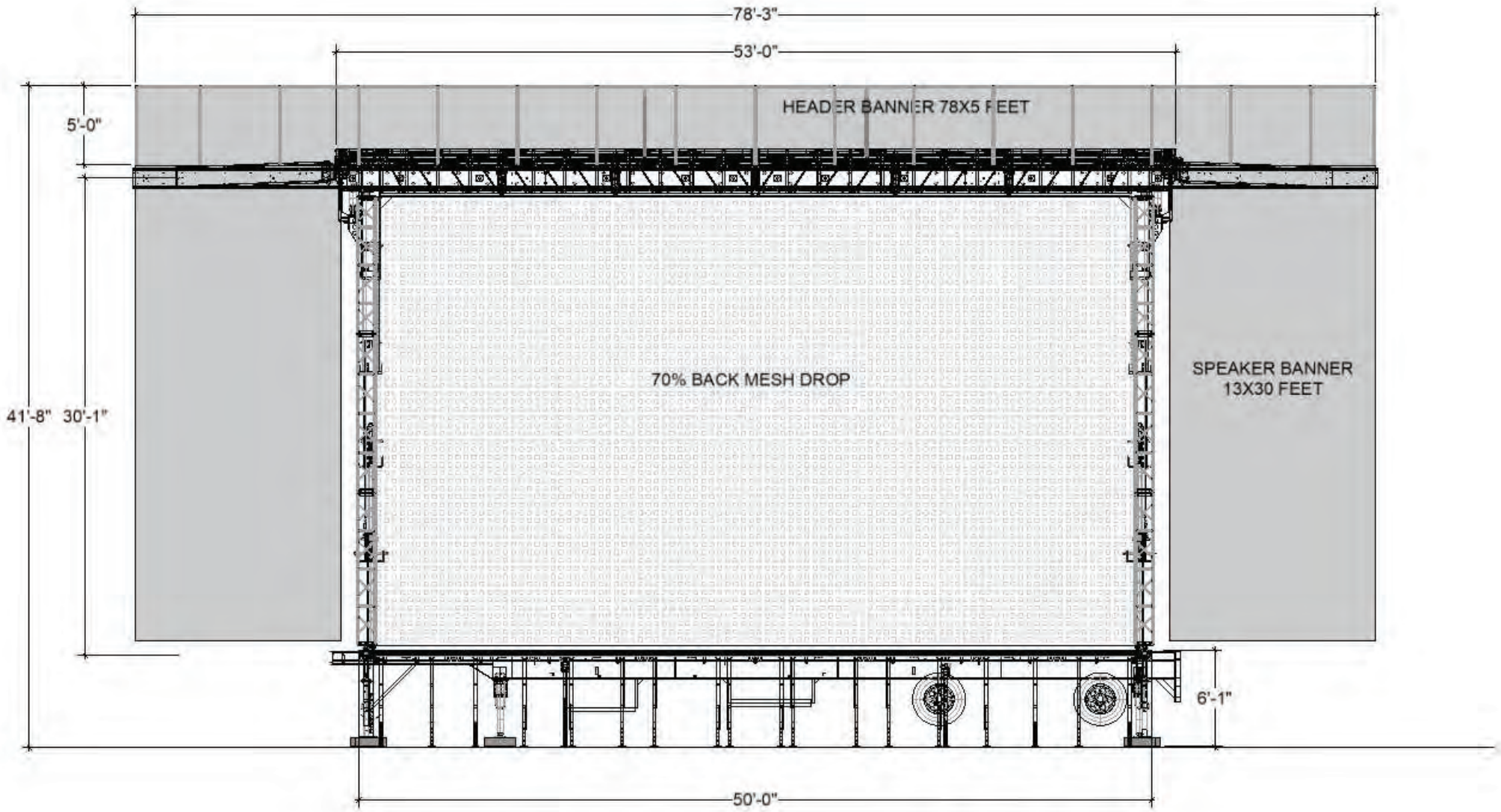
BASIC MODE
Top Loads & Measurements



TOTAL WEIGHT CAPACITY OF ROOF STRUCTURE 102,000 LBS
TOTAL WEIGHT CAPCITY OF COLUMNS AND TOWERS IS 148,000 LBS

APEX 5040 GEN3 Mobile Stage

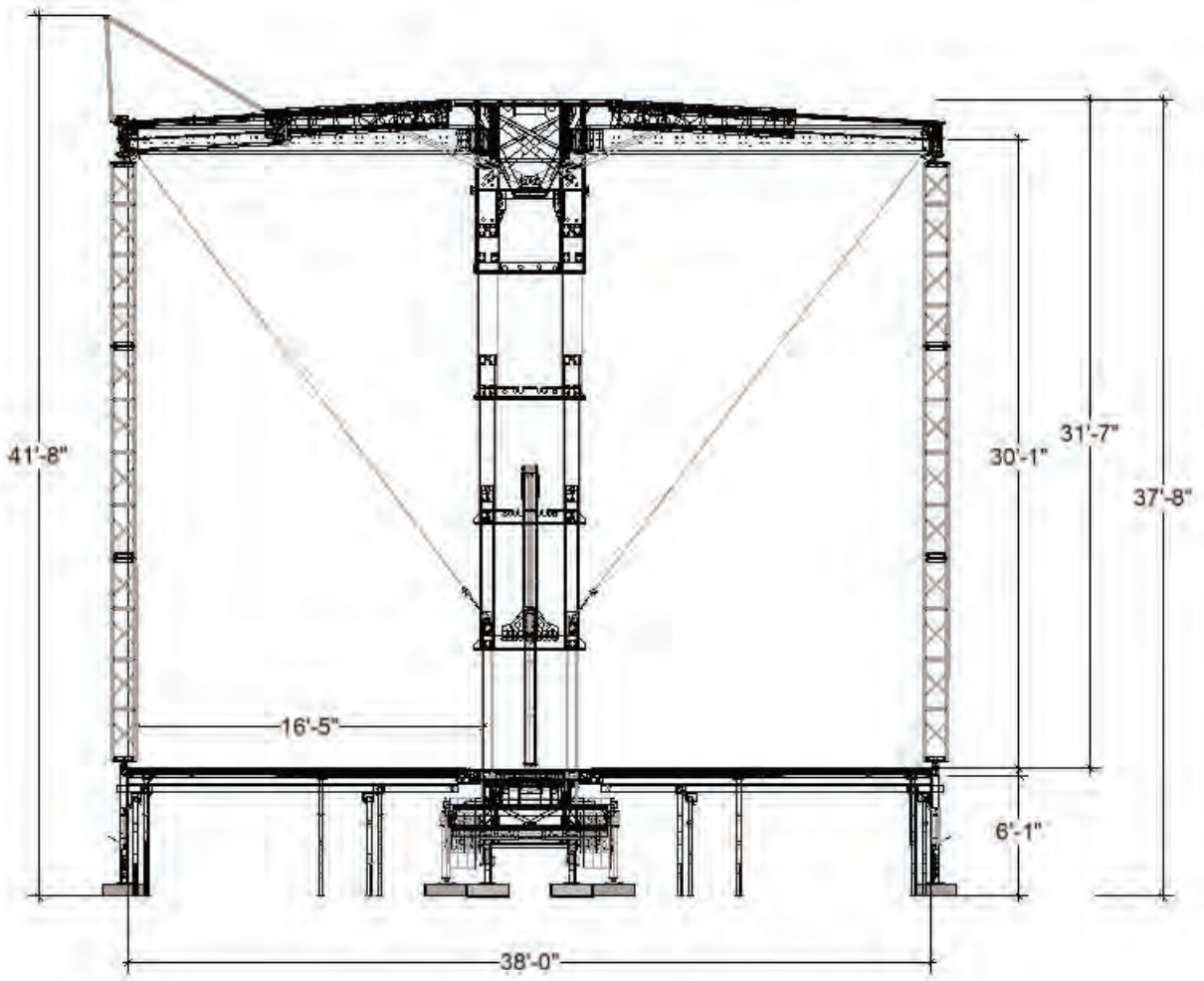
EXTENDED MODE
Front Measurements



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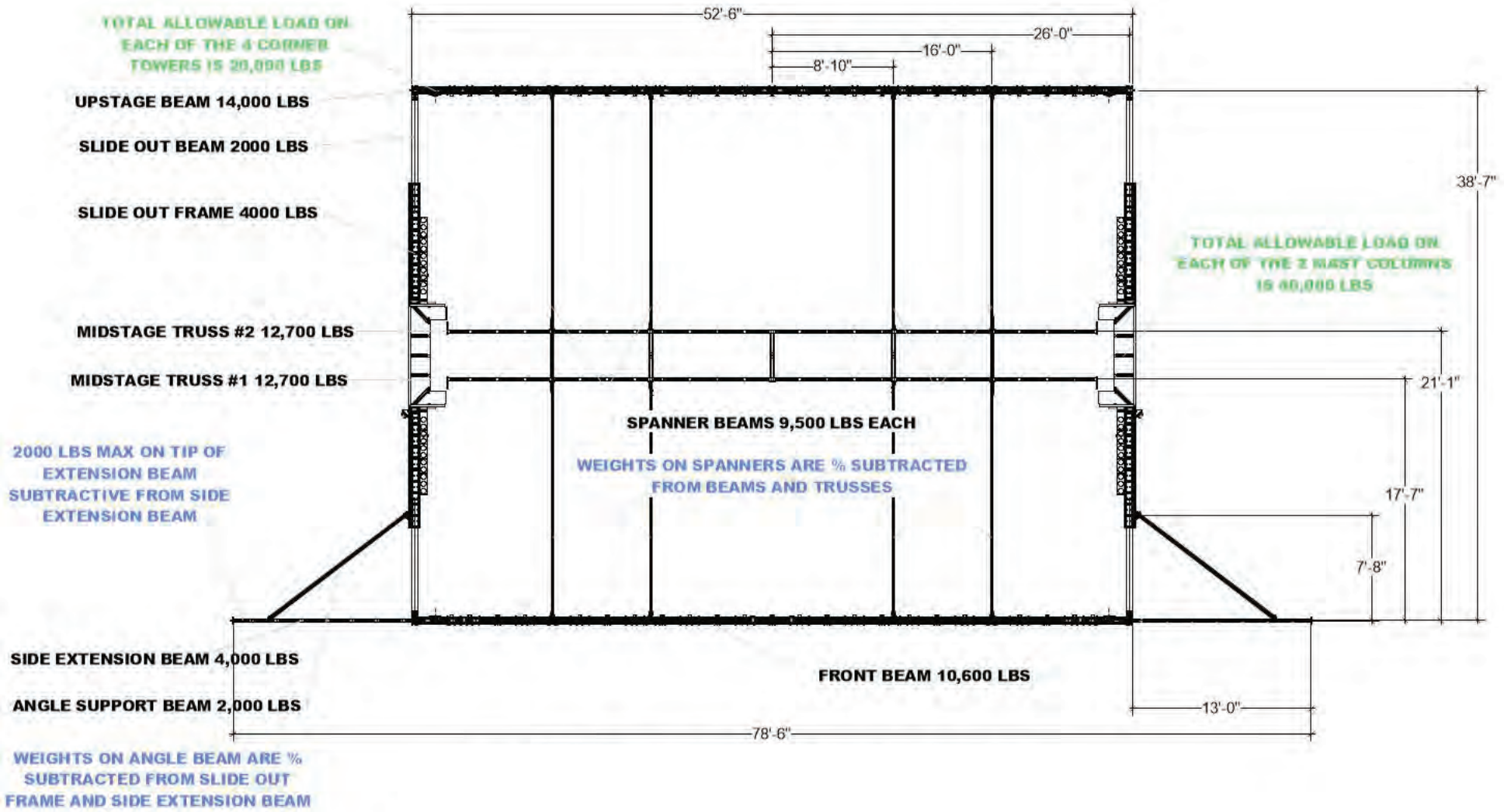
APEX 5040 GEN3 Mobile Stage

EXTENDED MODE
Side Measurements



APEX 5040 GEN3 Mobile Stage

EXTENDED MODE
Top Loads & Measurements

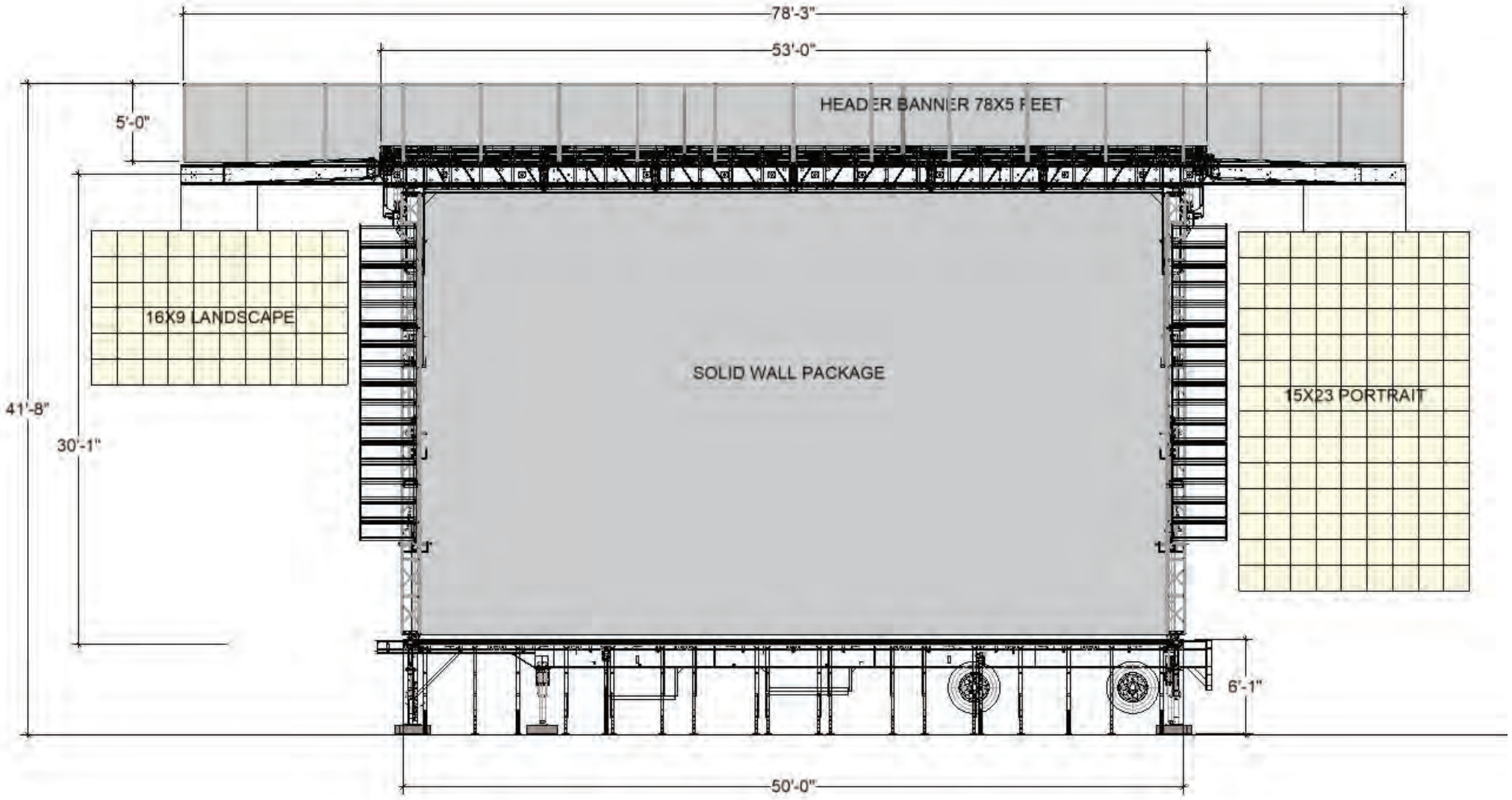


TOTAL WEIGHT CAPACITY OF ROOF STRUCTURE 102,000 LBS
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APEX 5040 GEN3 Mobile Stage

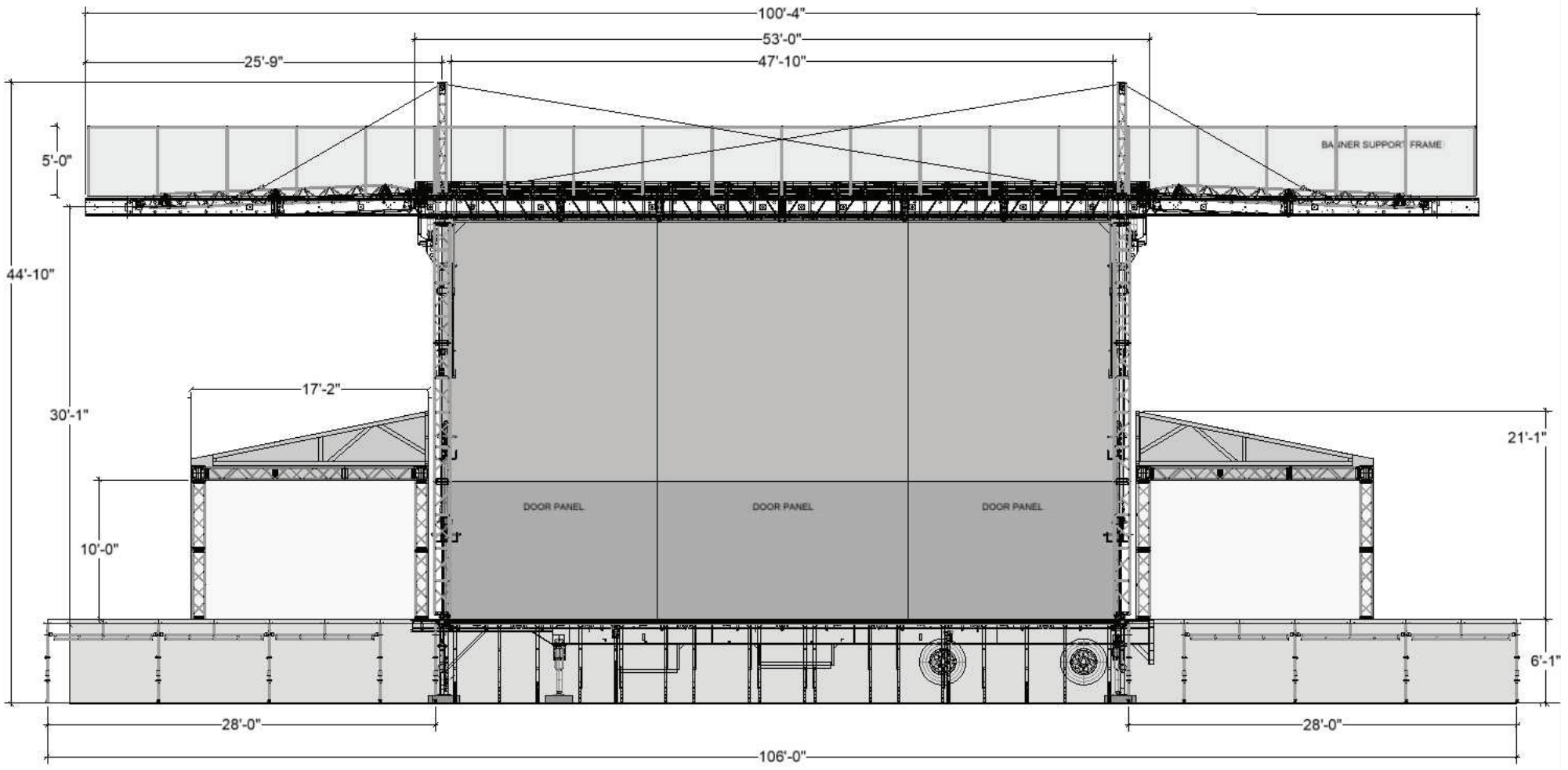
EXTENDED MODE
Video Options



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APEX 5040 GEN3 Mobile Stage

"BEAST" MODE
Front Measurements

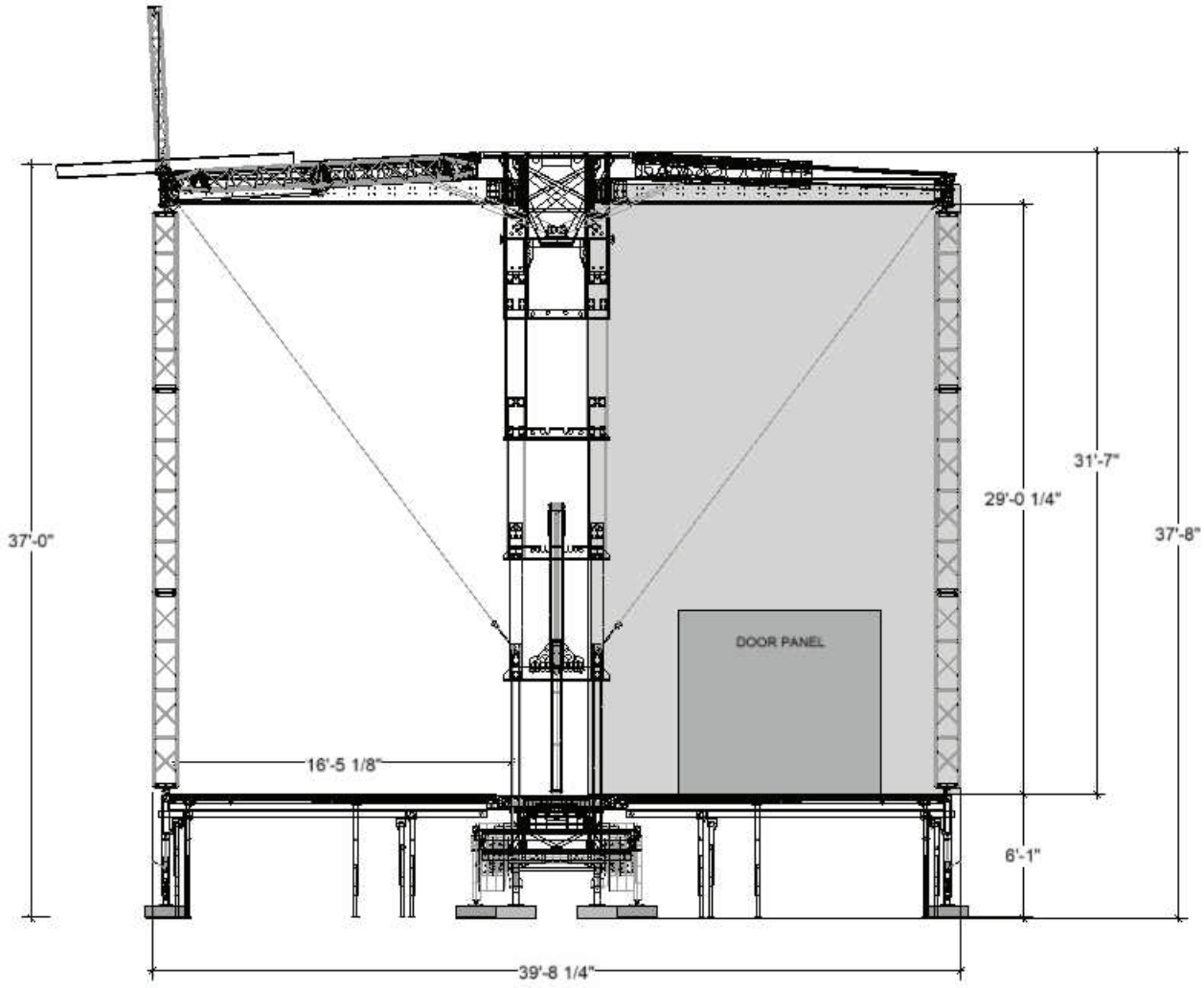


TOTAL WEIGHT CAPACITY OF ROOF STRUCTURE: 102,000 LBS
WIND RATING WITHOUT WALLS: 87MPH
WIND RESIST RATING WITHOUT WALLS: 123MPH

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APEX 5040 GEN3 Mobile Stage

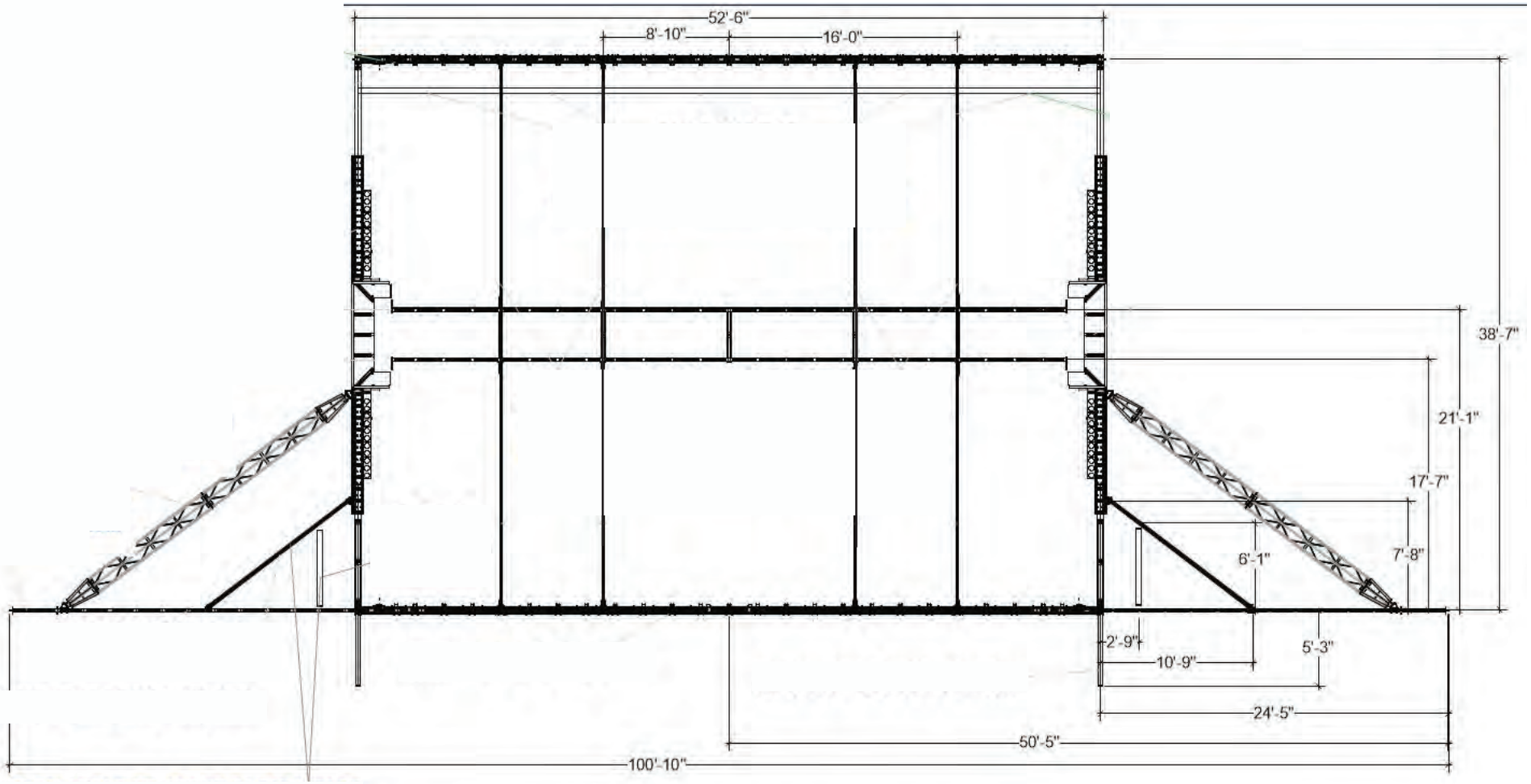
"BEAST" MODE
Side Measurements



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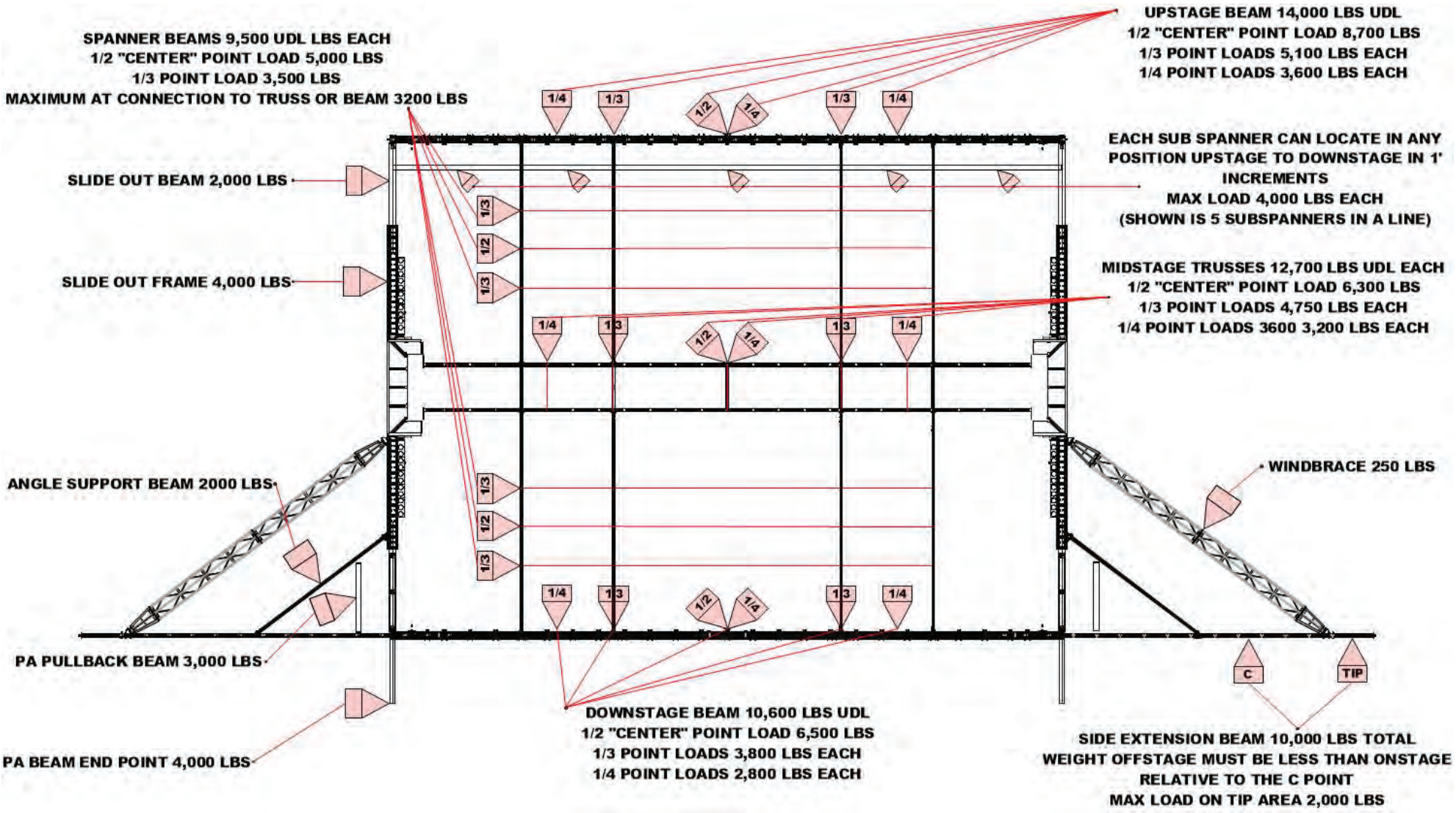
APEX 5040 GEN3 Mobile Stage

"BEAST" MODE
Measurements



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APEX 5040 GEN3 Mobile Stage

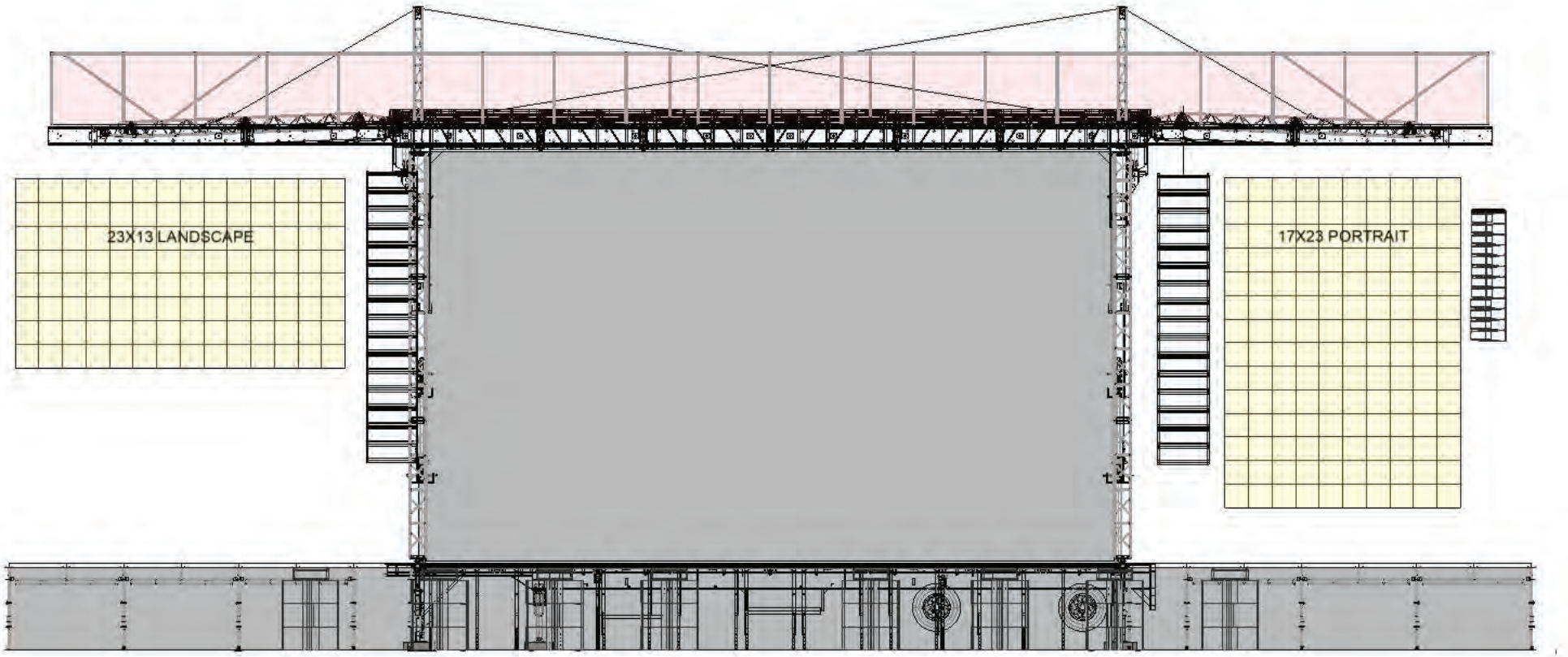


TOTAL WEIGHT CAPACITY OF ROOF STRUCTURE 102,000 LBS
TOTAL WEIGHT CAPCITY OF COLUMNS AND TOWERS IS 148,000 LBS

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APEX 5040 GEN3 Mobile Stage

"BEAST" MODE
Video Options



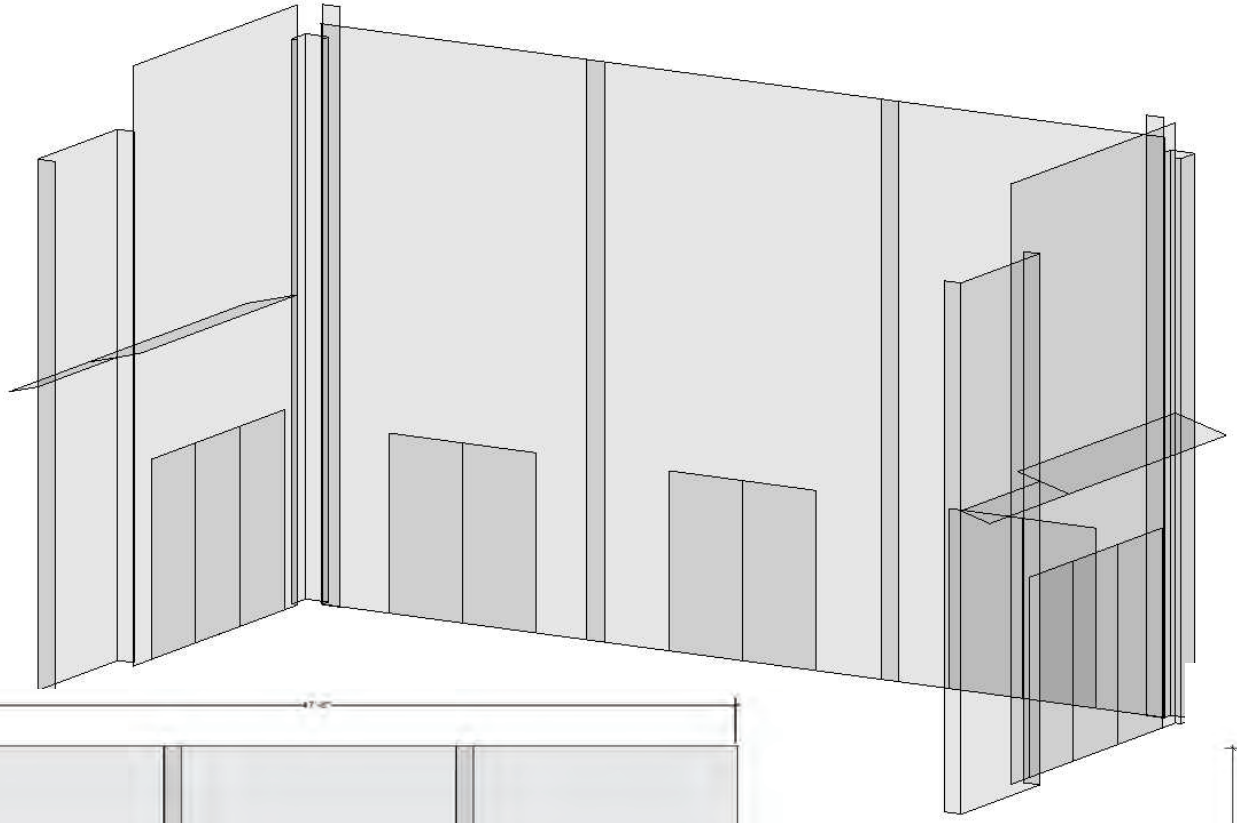
PA ON FRONT HANG POINTS, LANDSCAPE

PA HANG ON SIDE SLIDE OUT, PORTAIT, OUTFILLS

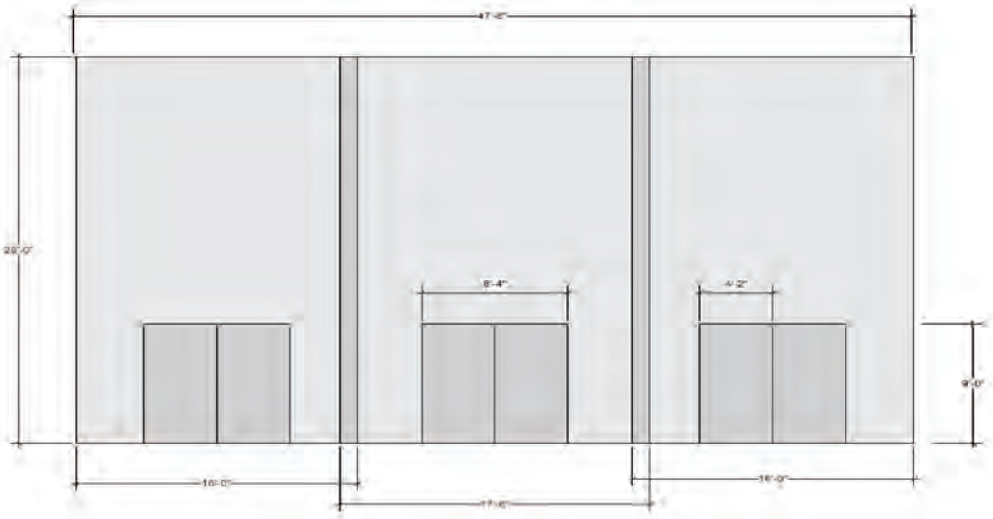
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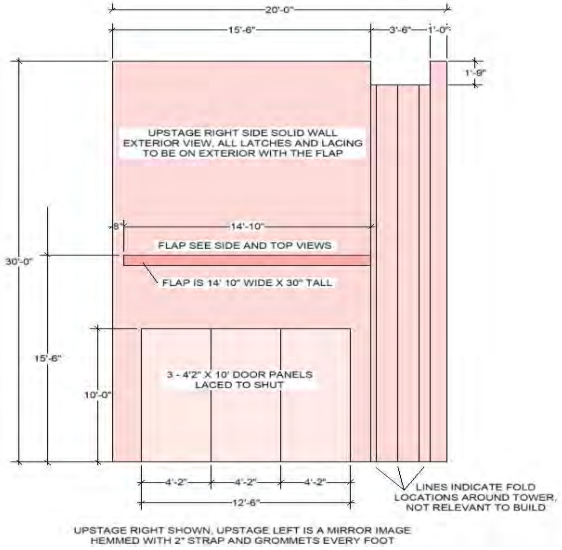
APEX 5040 GEN3 Mobile Stage

SIDE WALLS
Optional Package



NS
ages



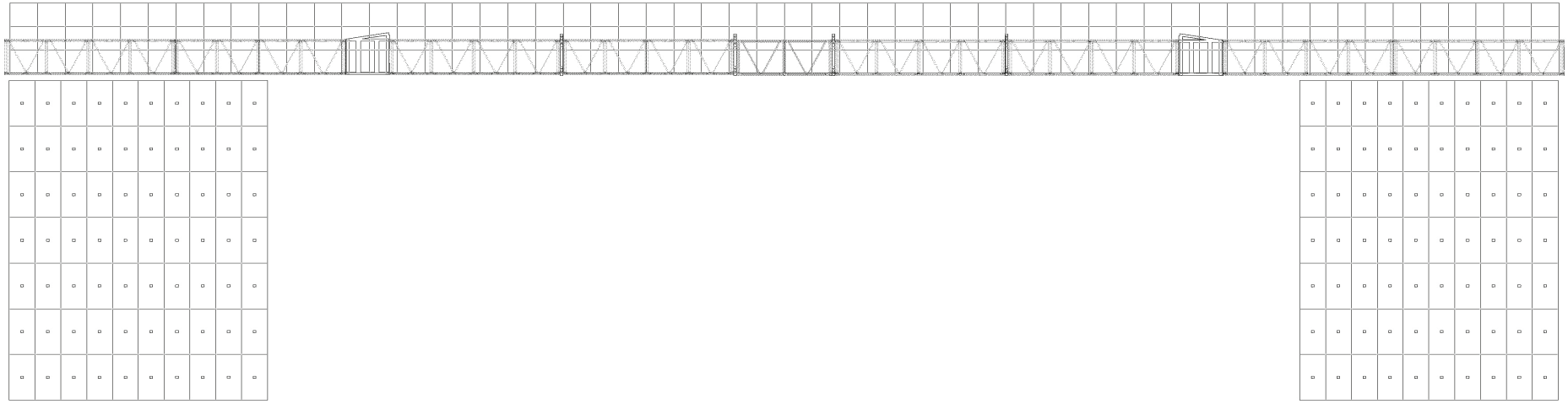


UPSTAGE RIGHT SHOWN, UPSTAGE LEFT IS A MIRROR IMAGE
HEMMED WITH 2" STRAP AND GROMMETS EVERY FOOT

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APEX 5040 GEN3 Mobile Stage

GEN3
VIDEO Banner/IMAG



OPTIONAL "BEAST" VIDEO BANNER & IMAG PACKAGE

100' wide by 5' high top video banner is powered by 183 of the Absen 3.9 Pro LED Video Panels
7,808w by 384h / 20.33:1 100'0-3/4" by 4'11" / 3,873.08lbs / 91.32 max amps 3 phase / 4500 NIT

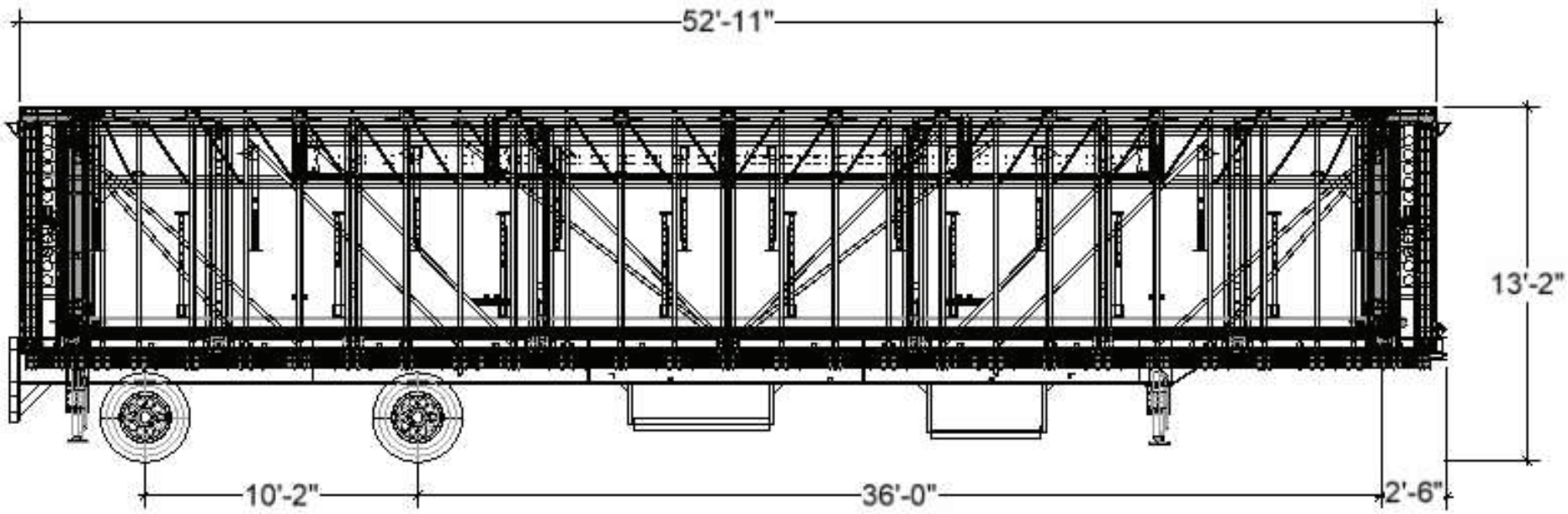
Each side of the IMAG walls are powered by 70 of the Absen 3.9 Pro XL LED panels
1280w x 1792h / 0.71:1 / 16' 4-7/8" by 22' 11-5/8" / 2,114.23lbs each / 72.78 max amps 3 phase each / 4500 NIT

8K of processing thru the NovaStar via fiber. Panels are 140h/100v IP65/IP54

Hung from 30" by 30" box truss with custom extruded "I" reinforced tubing & 6 x 1ton Hoists

APEX 5040 GEN3 Mobile Stage

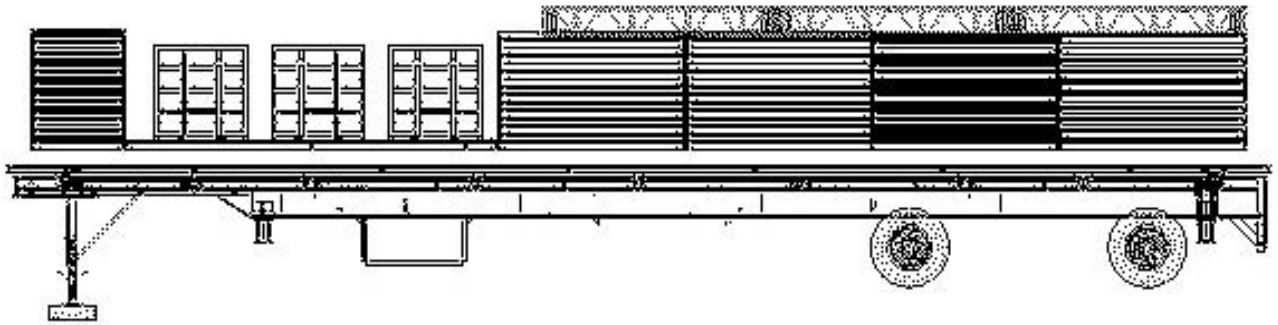
GEN3
Closed Trailer



TOTAL WEIGHT EMPTY: 57,000LBS
TOTAL WEIGHT BASIC MODE WITH ADDS: 60,300LBS
TOTAL WEIGHT ON BACK SPITS: 39,600LBS
TOTAL WEIGHT ON KINGPIN: 20,700LBS
ESTIMATED WEIGHT OF SINGLE SLEEPER TRACTOR, FUEL, DRIVER: 19,500LBS
GROSS WEIGHT WITH TRACTOR: 79,800LBS
STANDARD KING PIN POSITION OF 30 INCHES
"NON STANDARD" AXEL SPLIT

APEX 5040 GEN3 Mobile Stage

"BEAST" MODE
Support Trailer





(3- 8' rails
6- 4' rails

16



3 sets of 11-
angle bumpers

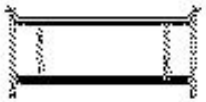
33



3 sets of
lamp & video
Cable, Tools
Bolts

6 sets of 14-
4'x8' deck

50+2 Special sets



2 sets of 10-
underframes
w 2- Rolloy Risers
16- Apex Adapters

38



4 sets of 30' trusses
2- tiltywhackers
2 sets of end brace
2 sets of back brace
2 sound pull back bars
3 long sub spanners
6 short sub spanners

24

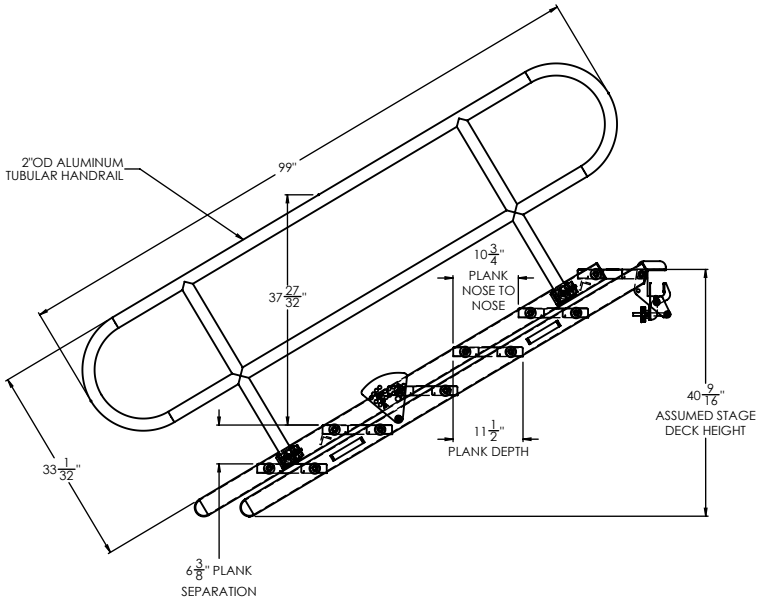
ON TOP of RIGS.

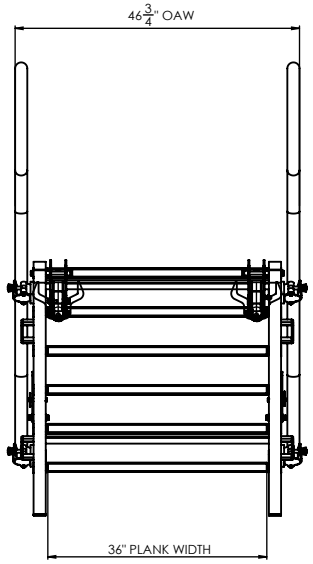
Tent Pipes & Legs
Banner Pipes
Side & Back Walls

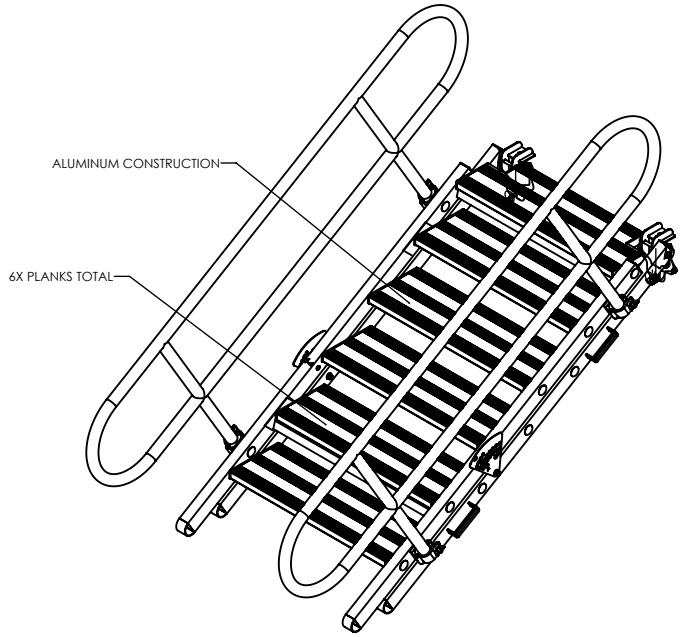
Build out of "Beast" Mode of the 5040 GEN3
Two- 40' by 24' wings
Two- 15' by 30' Pavilion Tents
Banner Kit
100' of Concert Barricades
and a 50' by 8'
runway or a loading dock

APEX 5040 GEN3 Mobile Stage

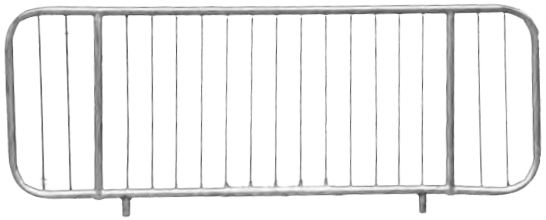
STAIRS
Measurements





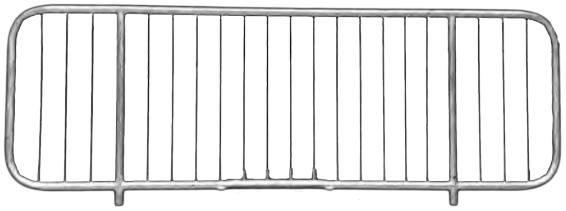


UPDATED RAILS FOR THE 6 STEP VERSION OF THE MOBILE STAGE WHEN PUBLIC ACCESS IS REQUIRED



6 STEP HAND RAILS ARE 9 4.5 " IN LENGTH WITH INSIDE SPACING AT 4" APART

UPDATED RAILS FOR THE 8STEP VERSION OF THE MOBILE STAGE WHEN PUBLIC ACCESS IS REQUIRED



8 STEP HAND RAILS ARE 104" IN LENGTH WITH INSIDE SPACING AT 4" APART

NOTES:

1. DRAWING IS MEANT TO SERVE AS GENERAL DIMENSIONAL REFERNECE ONLY. INFORMATION CONTAINED IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. STAIRCASE IS PRIMARILY CONSTRUCTED FROM ALUMINUM, WITH EXCEPTION OF FASTENING CLAMPS AND ALL HARDWARE.
3. DIMENSIONS SHOWN ARE REPRESENTATIVE OF STAIRCASE SET UP AT A GIVEN SLOPE THAT CORRESPONDS TO A 40-9/16" STAGE DECK HEIGHT. DIMENSIONS WILL VARY WITH A DIFFERENT STAGE DECK HEIGHT OTHER THAN WHAT IS LISTED.
4. DETAIL IS THE SAME FOR THE 6 FLIGHT STAIRCASE USED ON THE APEX 2016 & ON THE 8 FLIGHT STAIRCASE USED ON THE APEX 2420, 3224, 4240 & 5040 STAGES

STAIRCASE GENERAL DIMENSIONS
STH - 9/19/17

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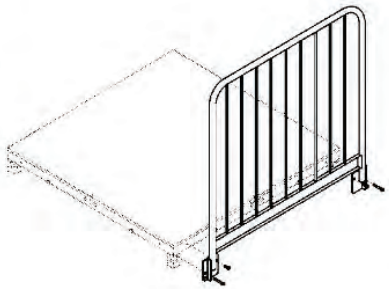
Guard Rail / Bracing

Guard Railing





Description	Weight
Guard Rail Panel, Vertical, 2'W x 42"H	22
Guard Rail Panel, Vertical, 4'W x 42"H	32





HAND RAILS

Engineered & Built by:
BIL JAX
Haulotte Group
125 Taylor Parkway
Archbold OH 43502
419.445-8915
biljax.com

APEX 5040 GEN3
High Wind Action Plan

GOVERNING CODE- 2018 INTERNATIONAL BUILDING CODE

THE ANALYSIS IS BASED ON THE DESIGN CRITERIA SHOWN BELOW AND IS NOT SPECIFIC TO ANY SITE OR USE. THESE DOCUMENTS SHALL NOT BE CONSTRUED AS DOCUMENTS TO BE USED FOR PERMIT UNLESS THE SPECIFIC SITE CHARATERISTICS AND GOVENERNING CODES HAS BEEN REVIEWED BY A STRUCTURAL ENGINEER. ESG HAS NOT ANALYZED ANY PORTION OF THE LIFTING SYSTEM OR IT'S COMPONENTS. THE ANALYSIS OF THIS STRUCTURE IS BASED ON THE ASSEMBLY OF THE STRUCTURE IN IT'S FINAL CONDITION.

HIGH WIND LOAD ACTION PLAN (HWAP) REQUIREMENTS

1. THE HWAP DEFINES WIND DESIGN SPEEDS FOR AN "OPEN MAIN STAGE ROOF SYSTEM" AND A FULLY ENCLOSED MAIN STAGE ROOF SYSTEM".
A. AN "OPEN MAIN STAGE ROOF SYSTEM" SHALL BE DEFINED BY A CONDITION WHERE THE MAIN STAGE ROOF STRUCTURE IS FULLY ERECTED WITH NO WALL PANELS OR STAGE EQUIPMENT INSTALLED ON THE ROOF STRUCTURE.
B. A "FULLY ENCLOSED MAIN STAGE ROOF SYSTEM" SHALL BE DEFINED BY A CONDI TION WHERE THE MAIN STAGE ROOF STRUCTURE IS FULLY ERECTED WITH SIDESTAGE OR BACKSTAGE WALL PANELS OR STAGE EQUIPMENT INSTALLED ON THE ROOF STRUC TURE.
C. WIND DESIGN SPEEDS FOR THE "OPEN" CONDITION AND THE "FULLY ENCLOSED" CONDITION ARE DEFINED IN THE "LOADS" SECTION, ABOVE.

2. THE PURPOSE OF THE HWAP IS TO ENSURE THAT ALL STRUCTURES IN THE STAGE BLOCK (STAGE, STAGE ROOF, SIDE STAGE SCAFFOLD TOWERS & BACKSTAGE) AREA WILL REMAIN SAFE DURING ALL WIND CONDITIONS. THE HWAP DOES NOT PREVENT DAMAGE TO THE STRUCTURE DURING HIGH WIND EVENTS, ONLY GLOBAL STABILITY.
A. A SAFE MEANS OF USING A LOWER WIND DESIGN SPEED FOR A FULLY ENCLOSED MAIN STAGE ROOF SYSTEM
B. THE HWAP PROVIDES A MEANS OF SAFELY RESPONDING TO INCREASING WIND LOAD DURING PERIODS OF VENUE OPERATION.
C. THE HWAP IS ONLY INTENDED TO PROVIDE A METHOD FOR REDUCING THE PROJECTED WIND AREA ON THE PERFORMANCE STAGE MAIN ROOF ONLY.
D. THE HWAP PERTAINS TO REMOVAL OF MAIN ROOF SIDE WALLS AND BACK WALLS ONLY.
E. THE HWAP SHALL BE IN FORCE AT ANY TIME WHEN THE MAIN STAGE ROOF SYSTEM FABRIC SIDEWALLS AND BACK WALLS ARE INSTALLED.
F. THE HWAP IS NOT REQUIRED WHEN THE MAIN STAGE ROOF SIDEWALLS AND BACKWALLS ARE NOT INSTALLED.

3. THE FOLLOWING PROVISIONS MUST BE MET PRIOR TO IMPLEMENTATION OF THE HWAP;
THE FABRIC SIDEWALL AND BACKWALL INSTALLATION METHOD MUST ALLOW FOR THESE UNITS TO BE LOWERED IN A CONTROLLED FASHION IN LESS THAT 5 MINUTES FROM NOTICE OF PUTTING THE HWAP INTO ACTION.

4. HIGH WIND ACTION PLAN:

A. THE HWAP SHALL BE IN FORCE WHEN ANY OF THE FOLLOWING CONDITIONS OCCUR:
1. FABRIC SIDEWALLS AND/OR BACKWALLS ARE INSTALLED ON THE MAIN STAGE ROOF SYSTEM.
2. THE VENUE IS BEING USED FOR AN EVENT.
a. AN EVENT SHALL BE DEFINED AS ANY CONCERT, REHEARSAL, RENTAL OR ANY OTHER PROFESSIONAL OR COMMERCIAL USE OF THE STAGE SPACE BY ANY PARTY THAT IN ANY WAY REQUIRES USE OF STAGING EQUIPMENT TO BE ATTACHED TO THE MAIN STAGE ROOF STRUCTURE.
b. EXCEPTION:
(1) ANY EXCEPTION SHALL BE ALLOWED IF THE EQUIPMENT INSTALLED ON THE MAIN ROOF UNIT PRESENTS A PROJECTED WIND AREA OF LESS THAN 2% OF THE BARE ROOF AREA AND
(2) NO SIDEWALLS OR BACKWALLS OF ANY KIND ARE INSTALLED ON THE MAIN STAGE ROOF SYSTEM.

B. THE HWAP SHALL GOVERN OPERATING CONDITIONS DURING A TIME PERIOD THAT SHALL COMMENCE AT THE BEGINNING OF PRE-EVENT OPERATIONS AND SHALL CONTINUE TO SUCH TIME WHEN ALL PERSONNEL AND EQUIPMENT HAVE BEEN REMOVED FROM THE VENUE AT THE CLOSE OF THE SPECIFIC EVENT.

C. MONITORING OF SITE WIND CONDITIONS: ACTIVE ON SITE WIND MONITORING SHALL BE MAINTAINED FOR THE DURATION OF THE MAIN STAGE ROOF SYSTEM ERECTION UNLESS THE WALL PANELS ARE LOWERED TO REDUCE WIND PRESSURE.
1. LOCAL WEATHER SERVICE MONITORING: REAL-TIME MONITORING OF A LOCAL LINK TO THE NATIONAL WEATHER SERVICE (THIS MAY BE A LINK TO A LOCAL COMMERCIAL OR GOVERNMENT SERVICE) SHALL BE MAINTAINED BY THE HWAP CREW. REAL-TIME MONITORING SHALL BE INSTALLED IF WIND SPEEDS GREATER THAN 20 MPH ARE ANTICIPATED. THE USER SHALL BE SOLELY RESPONSIBLE FOR PROPER INSTALLATION OF THE BALLAST BEFORE AND DURING THE EVENT.
2. ACCESS DURING MONITORING: ACCESS IN THE VICINITY OF THE ROOF STRUCTURE SHALL ONLY BE ALLOWED WHILE MONITORING IS MAINTAINED.

D. **WHEN WIND GUSTS EXCEED 25 MPH:** MOBILIZE THE HWAP CREW AND HAVE THE NECESSARY PERSONNEL IN PLACE AND ON STANDBY.

E. **WHEN WIND GUSTS EXCEED 30 MPH**: CEASE ALL SHOW OPERATIONS. EVACUATE ALL AUDIENCE MEMBERS AND CREW FROM THE IMMEDIATE VICINITY OF THE MAIN STAGE ROOF SYSTEM EXCEPT HWAP CREW PERSONNEL.

F. **WHEN WIND GUSTS EXCEED 35 MPH**: LOWER, REMOVE OR CUT WALL PANELS TO REDUCE WIND LOAD ON THE STRUCTURE. LOWERING OR REMOVAL OF WALL PANELS MUST BE ACCOMPLISHED FROM THE GROUND BY REMOTELY ACTIVED SYSTEMS. NO PERSONNEL MAY CLIMB THE STRUCTURE TO EFFECT LOWERING OF THE SIDE PANELS.
THESE SYSTEMS MAY INCLUDE ELECTRICAL LOWERING DEVICES, MECHANICAL RELEASE SYSTEMS OR OTHER SYSTEMS THAT ALLOW THE WALL PANELS TO BE BROUGHT TO THE GROUND IN LESS THAN 5 MINUTES.

G. **WHEN WIND GUSTS EXCEED 40 MPH**: ALL WALL PANELS MUST BE FULLY LOWERED AND SECURED AT GROUND LEVEL. IF WALL PANELS HAVE NOT BEEN REMOVED WHEN WIND SPEED EXCEEDS 40 MPH, ALL PERSONNEL SHOULD MAINTAIN A SAFE CLEAR DISTANCE FROM THE ROOF SYSTEM AS COLLAPSE OF THE ROOF OR MOVEMENT OF THE STRUCTURE MAY OCCUR.

H. THE BALLAST ON THE STRUCTURE COLUMN SHOULD BE INSTALLED TO PREVENT GLOBAL UPLIFT ON THE STRUCTURE PER THIS SHEET PRIOR TO INSTALLATION OF THE SYSTEM IF WEATHER CONDITIONS WARRANT AND WIND SPEEDS WILL BE **GREATER THAN 40 MPH**. THE USER OF THE SYSTEM IS SOLELY RESPONSIBLE FOR DETERMINING WHETHER INSTALLATION OF THE BALLAST IS REQUIRED. ESG RECOMMENDS MEASURES TO INSTALL ALL BALLAST QUICKLY SHALL BE PUT IN PLACE PRIOR TO ALL DEPLOYMENTS. ONCE WALL PANELS HAVE BEEN REMOVED FROM THE ROOF SYSTEM AND THE BALLAST INSTALLED, THE STAGE BLOCK STRUCTURES ARE SAFE FOR THE FULL DESIGN WIND SPEED.

DO NOT LOWER ROOF SYSTEM DURING CONDITIONS OF HIGH WIND.
LOWER WALL PANELS TO REDUCE WIND PRESSURE ON SYSTEM.

5. TEMPORARY STRUCTURES

A. THE STRUCTURES SHOWN ON THE ACCOMPANYING DRAWINGS AND DOCUMENTS HAVE BEEN ANALYZED AND REVIEWED FOR AN INSTALLATION NOT TO EXCEED 10 DAYS.

B. ASSEMBLY REQUIRED BY EXPERIENCED ERECTION PERSONNEL:
PERSONNEL SHALL BE TRAINED IN THE ASSEMBLY AND INSTALLATION OF THE APEX MOBILE STAGE SYSTEM.

C. TEMPORARY STRUCTURES ARE INTENDED FOR THE USE AND PURPOSE SPECIFI CALLY DETAILED THE ACCOMPANYING DRAWINGS. THEY SHALL NOT BE USED FOR ANY OTHER PURPOSE. THEY ARE SPECIFICALLY EXCLUDED FROM REMAINING PERMANENTLY ON THIS SITE.

D. PERIODIC INSPECTION:

1. BEFORE EACH USE:
CHECK FOR BENT COMPONENTS, BROKEN OR CRACKED WELDS, TORN PLATES OR DETERIORATED CONNECTION HARDWARE.

2. ANNUALLY:
A. PERFORM A THOROUGH INSPECTION OF ALL COMPONENTS CHECKING FOR:
a. WORN OR ABRADED COMPONENTS. SPECIFICALLY CHECK FOR REDUCTIONS IN AREA OF MEMBER COMPONENTS DUE TO ABBRASION.
b. CHECK WELDS FOR CRACKS OR TEARS AT ALL LOCATIONS.
c. CHECK HARDWARE FOR EXCESSIVE WEAR AT BEARING SURFACES AND FOR DEFORMATION DUE TO OVERLOAD.
B. REMOVE ALL WORN OR DETERIORATED EQUIPMENT FROM SERVICE.
C. FOR MANUFACTURED SYSTEMS: FOLLOW ALL MANUFACTURERS RECOMMENDA TIONS FOR PERIODIC INSPECTION, MAINTENANCE AND REPAIR.

THIS HIGH-WIND ACTION PLAN MUST BE POSTED IN A CONSPICUOUS AREA ON SITE. IT MUST BE PROTECTED FROM THE WEATHER AND AVAILABLE AT ALL TIMES TO VENUE OPERATORS AND CREW AND ANY AUTHORITY HAVING JURISDICTION RELATING TO THESE MATTERS.

GENERAL NOTES AND OPERATIONS PLAN

GOVERNING CODE

2018 INTERNATIONAL BUILDING CODE (BASED ON ASCE 7-16)
ANSI E1.21

DESIGN LOADS

1. ROOF LOAD:
   - A. STRUCTURE SELFWEIGHT
   - B. RIGGING LOADS: SEE ATTACHED RIGGING SKETCH IN APPENDIX.

2. WIND LOAD (PER ASCE 7):
   - A. SERVICE LEVEL BASIC WIND SPEED (BASED ON 3-SECOND GUST) = 90 MPH (115 MPH ULTIMATE) APPLIED TO THE STRUCTURAL FRAME AND PERMANENT ATTACHMENTS FOR AN "OPEN" CONDITION MULTIPLIED BY A REDUCTION FACTOR IN ACCORDANCE WITH ASCE 37.
   - B. SERVICE LEVEL BASIC WIND SPEED (BASED ON 3-SECOND GUST) = 40 MPH APPLIED TO THE STRUCTURAL FRAME AND PROJECTED AREAS OF THE SCRIMMED WALLS FOR THE "FULLY ENCLOSED" CONDITION AND "PARTIALLY ENCLOSED" CONDITION.
   - C. WIND REDUCTION FACTOR = 0.75 (BASED ON ASCE 37-02)
   - D. BUILDING CATEGORY = III
   - E. WIND IMPORTANCE FACTOR, I = 1.00
   - F. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
   - G. INTERNAL PRESSURE COEFFICIENT PARTIALLY ENCLOSED, GCpi = +0.55, -0.55

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT. Unless explicitly described elsewhere in these appendices, our scope includes only normal loading conditions occurring during use after the system has been installed, ballasted, and laterally stabilized in accordance with the system's required stabilizing system. Our scope does not include installation means and methods used during installation or removal of the system, occurring prior to or after the in-use condition.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.

C. THE HWAP PERTAINS TO REMOVAL OF MAIN ROOF SIDE WALLS AND BACK WALLS ONLY.

D. THE HWAP SHALL BE IN FORCE AT ANY TIME WHEN THE MAIN STAGE ROOF SYSTEM FABRIC SIDEWALLS AND BACK WALLS ARE INSTALLED.

E. THE HWAP IS NOT REQUIRED WHEN THE MAIN STAGE ROOF SIDEWALLS AND BACKWALLS ARE NOT INSTALLED.

3. THE FOLLOWING PROVISIONS MUST BE MET PRIOR TO IMPLEMENTATION OF THE HWAP;

A. THE FABRIC SIDEWALL AND BACKWALL INSTALLATION METHOD MUST ALLOW FOR THESE UNITS TO BE LOWERED IN A CONTROLLED FASHION IN LESS THAT 5 MINUTES FROM NOTICE OF PUTTING THE HWAP INTO ACTION.

B. SPECIFIC INSTALLATION DETAILS, INCLUDING FOR FABRIC SIDEWALLS AND BACKWALL, MUST BE APPROVED BY THE ENGINEER OF RECORD.

4. HWAP TRAINING:

A. THE VENUE OPERATOR SHALL PROVIDE FOR HWAP TRAINING OR ENSURE THAT THE TRAINING IS PROVIDED BY OTHERS.

B. TRAINING SPECIFICS:

1. A DOCUMENTED RECORD OF TRAINING SHALL BE KEPT ON SITE AND IN THE VENUE OPERATORS GENERAL OFFICES.

2. ALL HWAP TRAINED PERSONNEL SHALL BE RETRAINED AFTER A PERIOD OF 3 YEARS OR AFTER THEY HAVE NOT WORKED AT THE VENUE FOR A PERIOD OF 1 YEAR.

3. A MOBILIZATION MEETING SHALL TAKE PLACE AT THE BEGINNING OF EACH EVENT TO DEFINE SPECIFIC RESPONSIBILITIES FOR ONSITE HWAP PERSONNEL.

4. AN HWAP CREW MANAGER SHALL BE DESIGNATED DURING THE MOBILIZATION MEETING.

5. THE HWAP CREW MANAGER SHALL HAVE AUTHORITY TO IMPLEMENT THE HWAP AT ANY TIME AND UNDER ANY CIRCUMSTANCES HE/SHE SEES FIT.

5. HIGH WIND ACTION PLAN:

A. THE HWAP SHALL BE IN FORCE WHEN ANY OF THE FOLLOWING CONDITIONS OCCUR:

1. FABRIC SIDEWALLS AND/OR BACKWALLS ARE INSTALLED ON THE MAIN STAGE ROOF SYSTEM.

2. THE VENUE IS BEING USED FOR AN EVENT.

a. AN EVENT SHALL BE DEFINED AS ANY CONCERT, REHEARSAL, RENTAL OR ANY OTHER PROFESSIONAL OR COMMERCIAL USE OF THE STAGE SPACE BY ANY PARTY THAT IN ANY WAY REQUIRES USE OF STAGING EQUIPMENT TO BE ATTACHED TO THE MAIN STAGE ROOF STRUCTURE.

a. AN EVENT SHALL BE DEFINED AS ANY CONCERT, REHEARSAL, RENTAL OR ANY OTHER PROFESSIONAL OR COMMERCIAL USE OF THE STAGE SPACE BY ANY PARTY THAT IN ANY WAY REQUIRES USE OF STAGING EQUIPMENT TO BE ATTACHED TO THE MAIN STAGE ROOF STRUCTURE.

b. EXCEPTION:

(1) ANY EXCEPTION SHALL BE ALLOWED IF THE EQUIPMENT INSTALLED ON THE MAIN ROOF UNIT PRESENTS A PROJECTED WIND AREA OF LESS THAN 2% OF THE BARE ROOF AREA AND

(2) NO SIDEWALLS OR BACKWALLS OF ANY KIND ARE INSTALLED ON THE MAIN STAGE ROOF SYSTEM.

B. THE HWAP SHALL GOVERN OPERATING CONDITIONS DURING A TIME PERIOD THAT SHALL COMMENCE AT THE BEGINNING OF PRE-EVENT OPERATIONS AND SHALL CONTINUE TO SUCH TIME WHEN ALL PERSONNEL AND EQUIPMENT HAVE BEEN REMOVED FROM THE VENUE AT THE CLOSE OF THE SPECIFIC EVENT.

C. MONITORING OF SITE WIND CONDITIONS: ACTIVE ON SITE WIND MONITORING SHALL BE MAINTAINED FOR THE DURATION OF THE MAIN STAGE ROOF SYSTEM ERECTION UNLESS THE WALL PANELS ARE LOWERED TO REDUCE WIND PRESSURE.

1. WIND SPEED MONITORING (ANEMOMETERS): ACTIVE ON-SITE WIND MONITORING SHALL CONSIST OF ANEMOMETERS ERECTED AT AN ELEVATION WITHIN 5' +/- OF THE HIGHEST COMPONENT OF THE MAIN STAGE ROOF SYSTEM. THE ANEMOMETER SHALL NOT BE LOCATED ON THE ROOF SYSTEM OR ITEMS WITHIN THE STAGE BLOCK (THE ONSTAGE AND BACKSTAGE AREAS). THE ANEMOMETER SHALL BE INSTALLED AT A HORIZONTAL DISTANCE OF BETWEEN 50' AND 250' AWAY FROM THE BASE OF THE ROOF SYSTEM.

2. LOCAL WEATHER SERVICE MONITORING: REAL-TIME MONITORING OF A LOCAL LINK TO THE NATIONAL WEATHER SERVICE (THIS MAY BE A LINK TO A LOCAL COMMERCIAL OR GOVERNMENT SERVICE) SHALL BE MAINTAINED BY THE HWAP CREW.

3. ACCESS DURING MONITORING: ACCESS IN THE VICINITY OF THE ROOF STRUCTURE SHALL ONLY BE ALLOWED WHILE MONITORING IS MAINTAINED.

D. THE FOLLOWING HIGH-WIND ACTION PLAN MUST BE POSTED IN A CONSPICUOUS AREA ON SITE. IT MUST BE PROTECTED FROM THE WEATHER AND AVAILABLE AT ALL TIMES TO VENUE OPERATORS AND CREW AND ANY AUTHORITY HAVING JURISDICTION RELATING TO THESE MATTERS.

1. WHEN WIND GUSTS EXCEED 30 MPH: MOBILIZE THE HWAP CREW AND HAVE THE NECESSARY PERSONNEL IN PLACE AND ON STANDBY.

2. WHEN WIND GUSTS EXCEED 35 MPH: REMOVE THE WIND WALLS.

3. WHEN WIND GUSTS EXCEED 40 MPH: ALL WIND WALLS MUST BE FULLY LOWERED AND SECURED AT GROUND LEVEL. IF WIND WALLS HAVE NOT BEEN REMOVED WHEN WIND SPEED EXCEEDS 40 MPH, ALL PERSONNEL SHOULD MAINTAIN A SAFE CLEAR DISTANCE FROM THE ROOF SYSTEM AS COLLAPSE OF THE ROOF MAY OCCUR.

4. ONCE WALL PANELS HAVE BEEN REMOVED FROM THE ROOF SYSTEM, THE STAGE STRUCTURE IS SAFE FOR THE FULL DESIGN WIND SPEED WITH REDUCTION FACTOR.

5. DO NOT LOWER ROOF SYSTEM DURING CONDITIONS OF HIGH WIND.

3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. THE ROOF IS A "SUN-SHADE" SYSTEM ONLY AND IS NOT INTENDED FOR PERSONNEL ACCESS OR SUPPORT. ROOF SYSTEM SHALL BE ACCESSED FROM THE TRUSS COMPONENTS ONLY.
5. ROOF SYSTEM ERECTION:
   A. ROOF SYSTEM SHALL NOT BE HOISTED DURING WIND SPEEDS GREATER THAN 10 MPH.
   B. WIRE ROPE X-BRACES SHALL BE INSTALLED IMMEDIATELY AFTER ROOF HAS BEEN HOISTED TO DESIGN ERECTION HEIGHT.
   C. SELF-CONTAINED ERECTION HOISTS ARE INTENDED TO HOIST THE ROOF SYSTEM (ROOF TRUSSES) AND CHAIN HOISTS SUPPORTED BY THE ROOF SYSTEM ONLY. SELF-CONTAINED HOISTS ARE NOT INTENDED TO HOIST ANY COLLATERAL OR RIGGING LOADS.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.
2. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2002).
3. MATERIALS:
   A. PLATES UNLESS NOTED: ASTM A36.
   B. TUBE SHAPES (HSS): ASTM A500, GRADE B
   C. BOLTS: GRADE 8 UNLESS NOTED.

WIRE ROPE AND ACCESSORIES

1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THESE GENERAL NOTES AND ACCOMPANYING DRAWINGS AND SPECIFICATIONS.

2. MATERIALS:

   A. STEEL WIRE ROPE: GALVANIZED 7x19 IWRC OR STRAND CORE, FED. SPEC. RR-W-410. SIZE AS INDICATED ON STRUCTURAL DRAWINGS.

   B. SHACKLES: GALVANIZED STEEL, ASTM A153.

   C. WIRE ROPE CLIPS: CROSBY FORGED STEEL WIRE ROPE CLIPS (OR EQUAL), FED. SPEC. C-450, TYPE 1, CLASS 1.

   D. THIMBLES: GALVANIZED STEEL, FED. SPEC. FF-T-276b.

   E. TURNBUCKLES: FORGED GALVANIZED STEEL, ASTM F-1145-05, ASTM A668 CLASS A MATERIAL OR EQUAL.

3. ALL WIRE ROPE COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. INSPECT ALL MATERIALS PRIOR TO USE; REMOVE ANY DAMAGED, CRACKED OR ABRADED MATERIALS FROM SERVICE.

HIGH WIND-LOAD ACTION PLAN (HWAP) REQUIREMENTS

This section is based on the ANSI Standard "E1.21, Temporary structures used for technical production of outdoor entertainment events".

1. THE HWAP DEFINES WIND DESIGN SPEEDS FOR AN "OPEN MAIN STAGE ROOF SYSTEM" AND A "FULLY ENCLOSED MAIN STAGE ROOF SYSTEM".

   A. AN "OPEN MAIN STAGE ROOF SYSTEM" SHALL BE DEFINED BY A CONDITION WHERE THE MAIN STAGE ROOF STRUCTURE IS FULLY ERECTED WITH NO WALL PANELS OR STAGE EQUIPMENT INSTALLED ON THE ROOF STRUCTURE.

   B. A "FULLY ENCLOSED MAIN STAGE ROOF SYSTEM" SHALL BE DEFINED BY A CONDITION WHERE THE MAIN STAGE ROOF STRUCTURE IS FULLY ERECTED WITH SIDESTAGE OR BACKSTAGE WALL PANELS OR STAGE EQUIPMENT INSTALLED ON THE ROOF STRUCTURE.

   C. WIND DESIGN SPEEDS FOR THE "OPEN" CONDITION AND THE "FULLY ENCLOSED" CONDITION ARE DEFINED IN THE "LOADS" SECTION, ABOVE.

2. THE PURPOSE OF THE HWAP IS TO ENSURE THAT ALL STRUCTURES IN THE STAGE AREA WILL REMAIN SAFE DURING ALL WIND CONDITIONS.

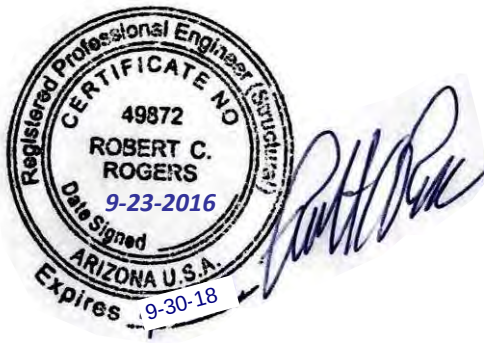
   A. THE HWAP PROVIDES A MEANS OF SAFELY RESPONDING TO INCREASING WIND LOAD DURING PERIODS OF VENUE OPERATION.

   B. THE HWAP IS ONLY INTENDED TO PROVIDE A METHOD FOR REDUCING THE PROJECTED WIND AREA ON THE PERFORMANCE STAGE MAIN ROOF ONLY.

   C. THE HWAP PERTAINS TO REMOVAL OF MAIN ROOF SIDE WALLS AND BACK WALLS ONLY.



ALABAMA



ARIZONA



ARKANSAS



CALIFORNIA



COLORADO



CONNECTICUT



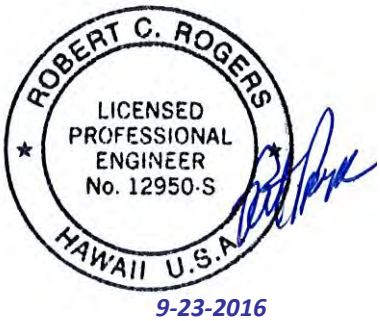
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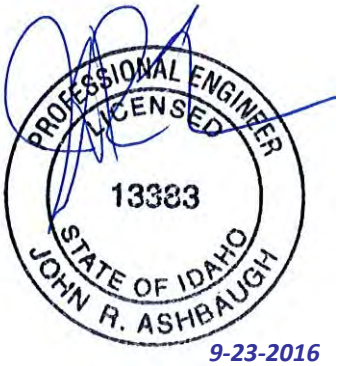
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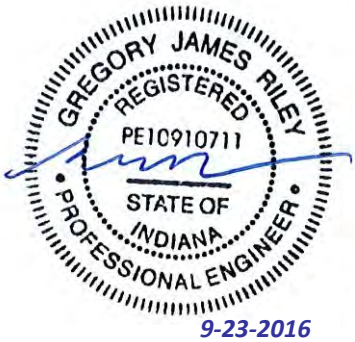
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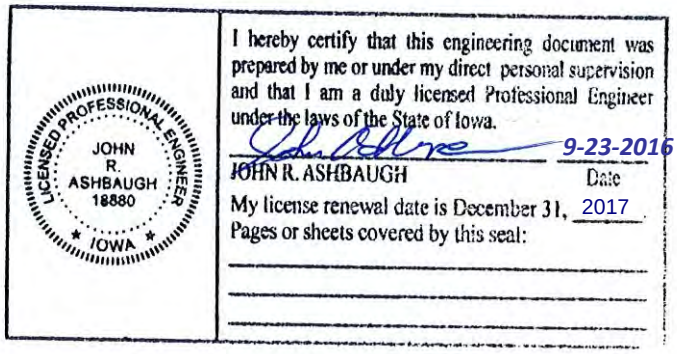


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9-23-2016

INDIANA



9-23-2016

IOWA



9-23-2016

KANSAS



9-23-2016

KENTUCKY



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LOUISIANA



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MAINE



9-23-2016

MARYLAND



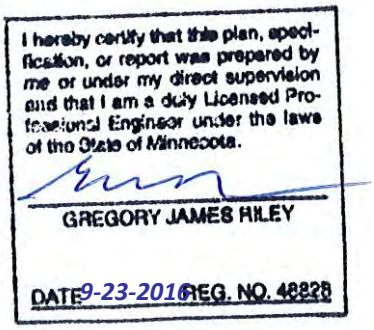
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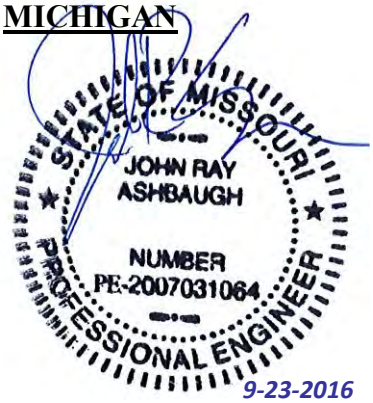


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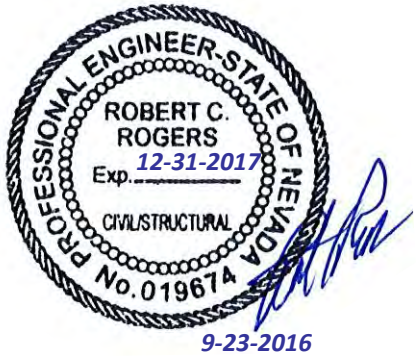
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NEVADA



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NEW JERSEY



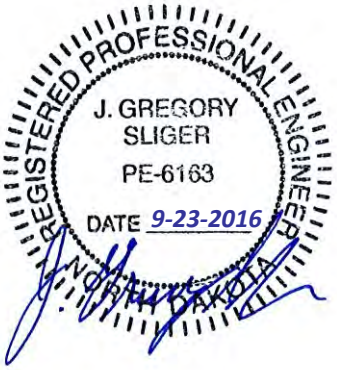
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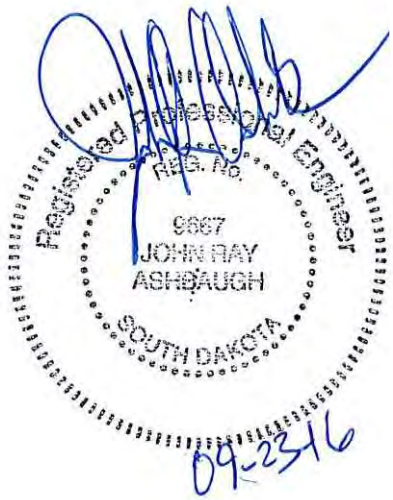
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RHODE ISLAND



SOUTH CAROLINA



SOUTH DAKOTA



TENNESSEE



TEXAS



UTAH



VERMONT



VIRGINIA



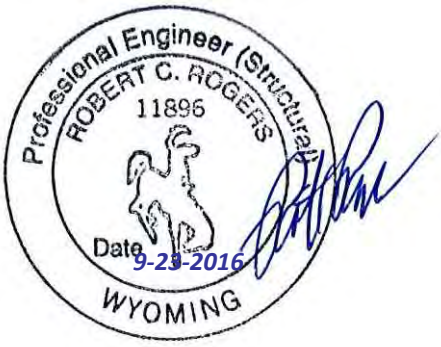
WASHINGTON



WEST VIRGINIA



WISCONSIN



WYOMING

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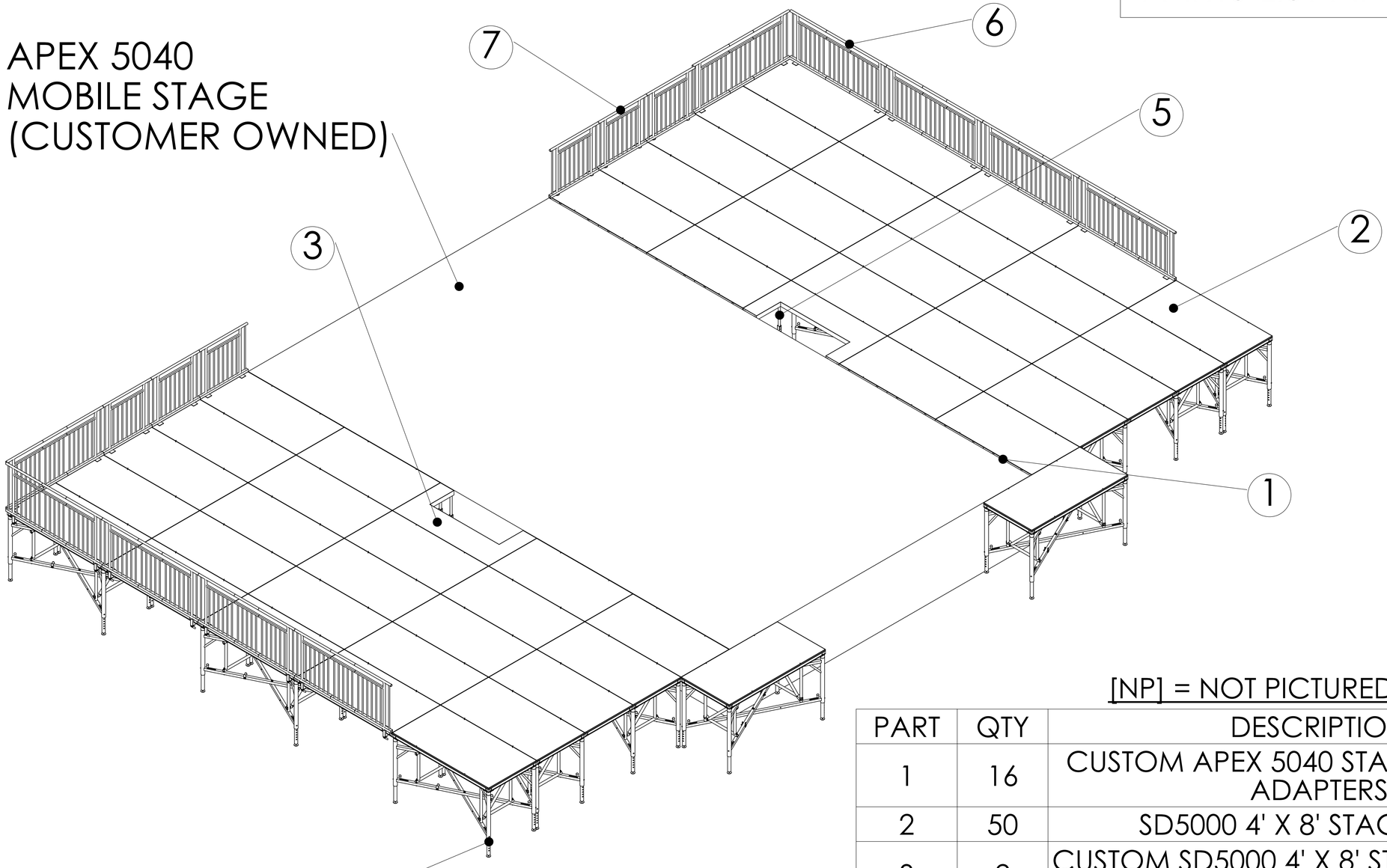
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ENTERTAINMENT STRUCTURES GROUP
A Division of Steven Schaefer Associates, Inc.

NOTE:
The engineering analysis is based on the design criteria shown on the drawings and contained in the engineering calculations. The seals apply to the drawings serving as the technical basis for selected portions of the Apex 5040 GEN3 and are not applicable to any site specific venue. It is incumbent on the owner/operator of the Apex 5040 GEN3 to satisfy any local jurisdictional code requirements by hiring a licensed design professional. No portions of the mechanical lift system (winch, wire rope, etc.), mechanical systems as a whole (axles, wheels/rims, etc.), or the fiberglass roof panels have been analyzed by ESG.

APEX 5040
MOBILE STAGE
(CUSTOMER OWNED)

PARTS LIST AND LAYOUT



[NP] = NOT PICTURED

PART	QTY	DESCRIPTION
1	16	CUSTOM APEX 5040 STAGE EXT. DECK ADAPTERS
2	50	SD5000 4' X 8' STAGE DECK
3	2	CUSTOM SD5000 4' X 8' STAGE DECK W/ 5'-9" X 2' MIDDLE CUTOUT
4	20	4' X 8' @ 48"-78" WUNDERSTRUCTURES
5	2	SET OF FOUR 48"-78" ADJ. LEGS
6	10	8' L X 42" H ALUM. PICKET GUARDRAIL
7	6	4' L X 42" H ALUM. PICKET GUARDRAIL
NP	12	16" HIGH ROLLING RISER LEG SLEEVE
NP	8	SINGLE ROLLING RISER CASTER
NP	4	DOUBLE ROLLING RISER CASTER

STAGING DIMENSIONS

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: 1:40

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125 MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED (AS SUBMITTED) _____

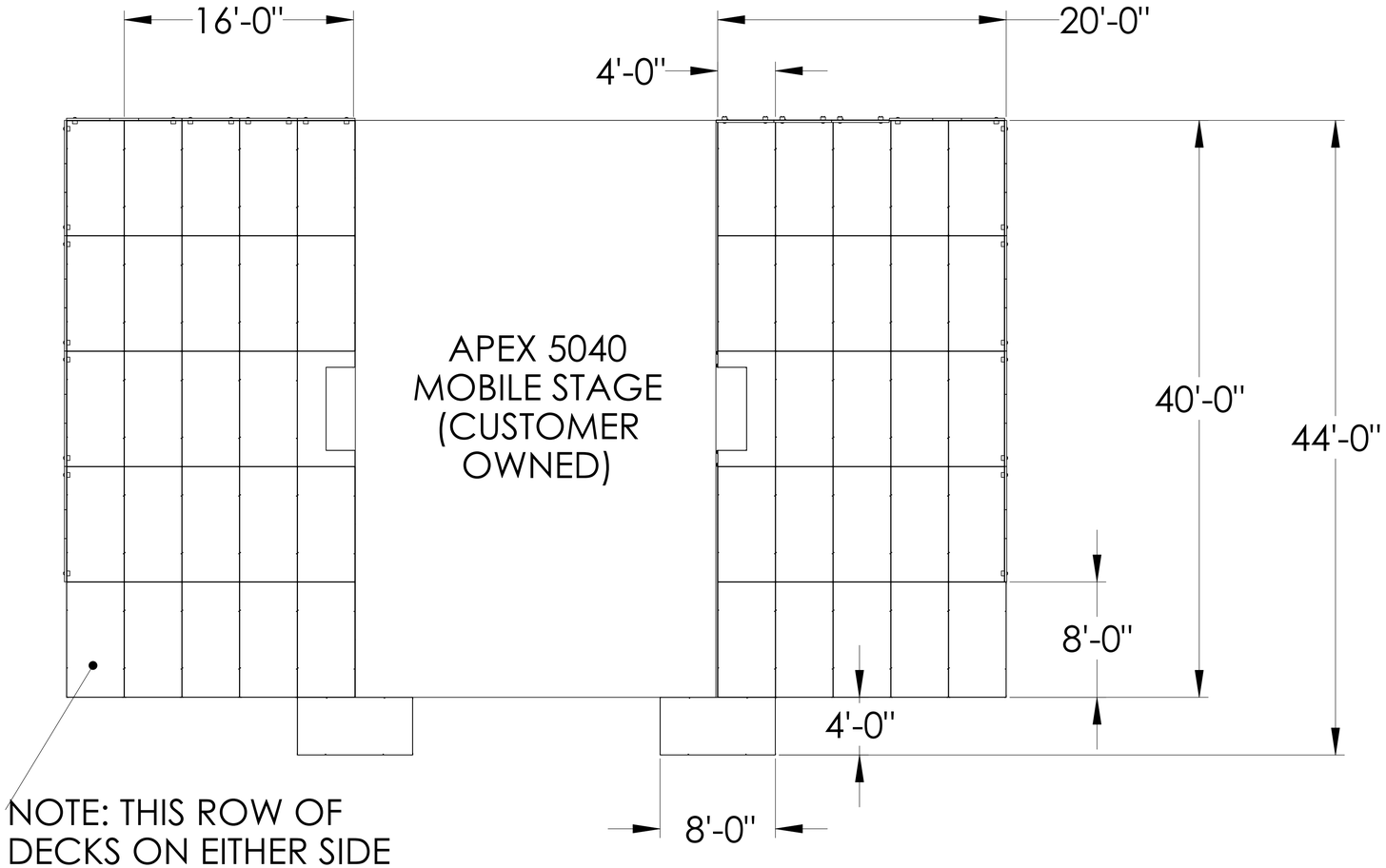
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APPROVAL DATE: _____

INSTALL DRAWINGS

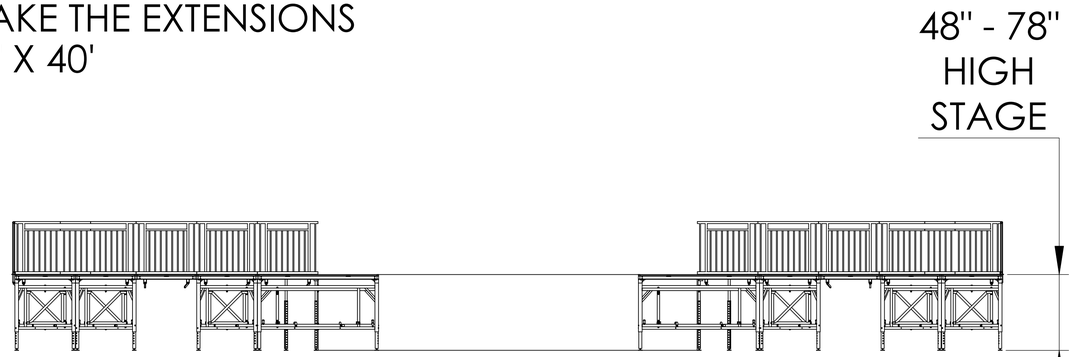
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PLAN AND ELEVATION

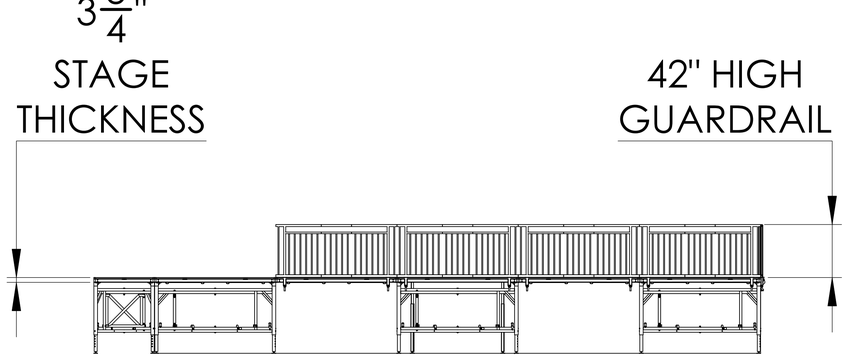


NOTE: THIS ROW OF DECKS ON EITHER SIDE CEN BE REMOVED TO MAKE THE EXTENSIONS 16' X 40'

PLAN VIEW



FRONT ELEVATION



SIDE ELEVATION

STAGING DIMENSIONS

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: 1:60

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED (AS SUBMITTED) _____

APPROVED (W/ MINOR REVISIONS) _____

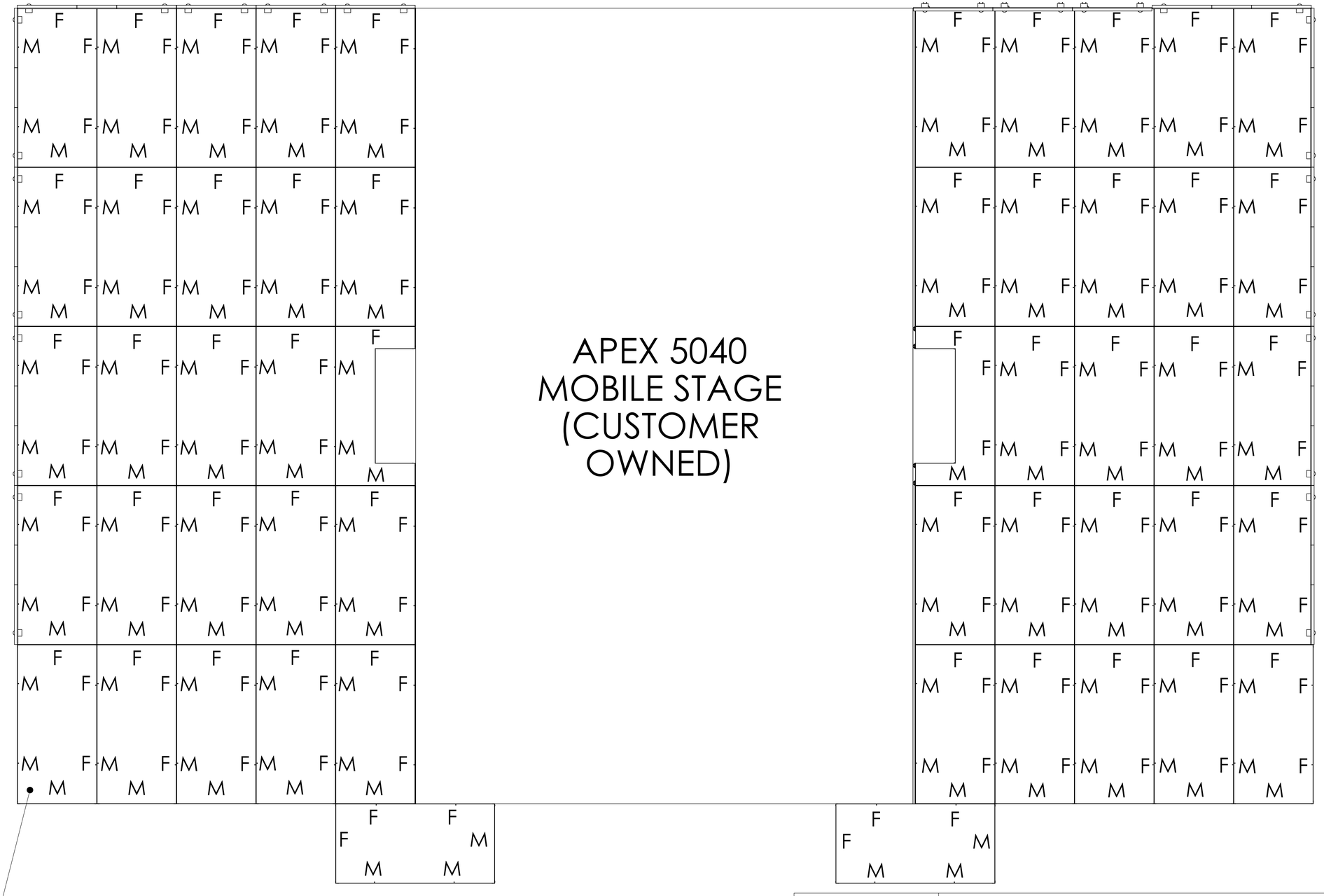
APPROVAL DATE: _____

INSTALL DRAWINGS

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LOCK SYSTEM LAYOUT

SHEET 3 OF 14



APEX 5040
MOBILE STAGE
(CUSTOMER
OWNED)

NOTE: THIS ROW OF DECKS ON EITHER SIDE
CEN BE REMOVED TO MAKE THE EXTENSIONS
16' X 40'

SYMBOL	DESCRIPTION
M	MALE LOCK LOCATION
F	FEMALE LOCK LOCATION

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: 1:32

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED
X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

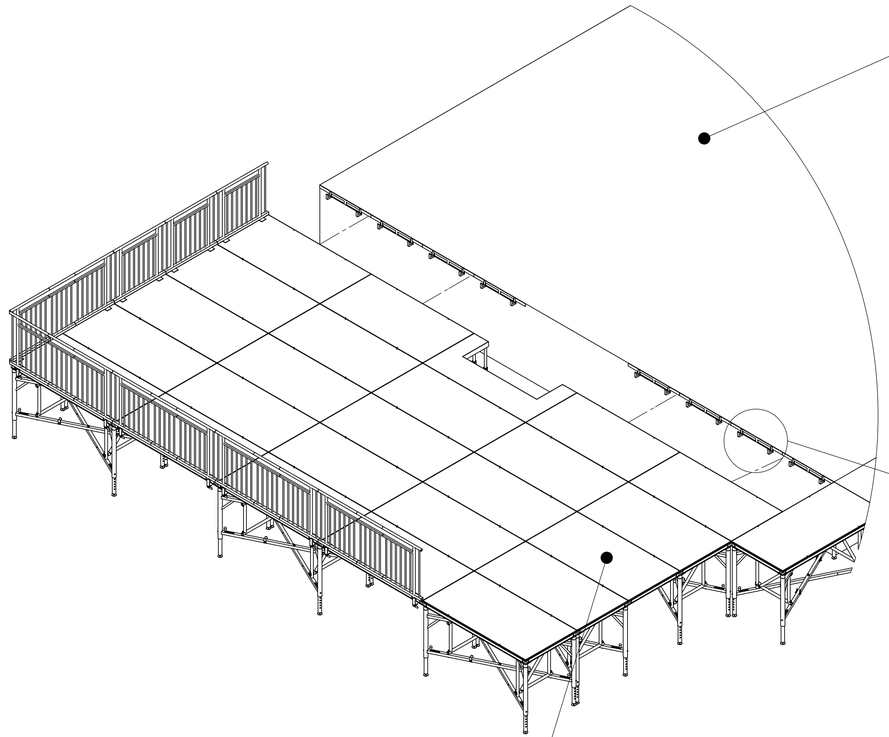
DRAWING APPROVAL
PLEASE SIGN ON THE APPROPRIATE LINE
AND RETURN TO SALES@STAGINGDIMENSIONS.COM
APPROVED
(AS SUBMITTED) _____
APPROVED
(W/ NOTED REVISIONS) _____
APPROVAL DATE: _____

INSTALL DRAWINGS

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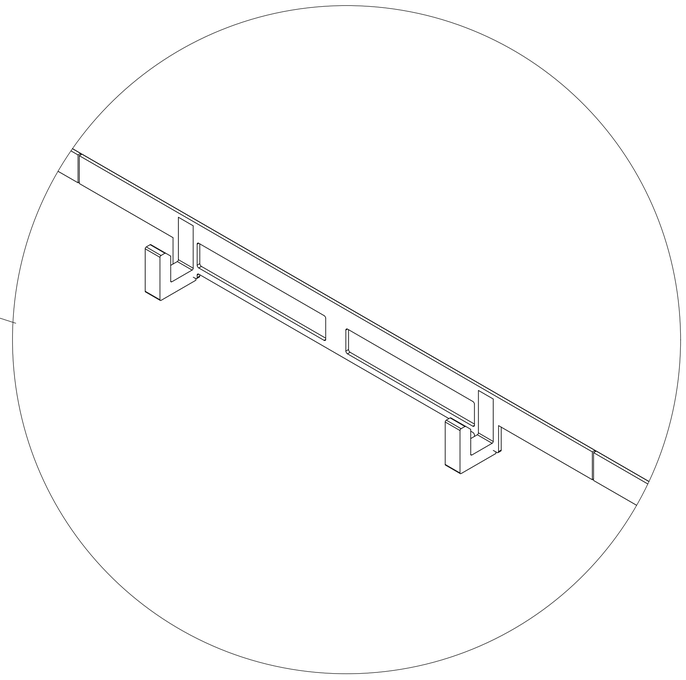
LEG CLAMP SETUP

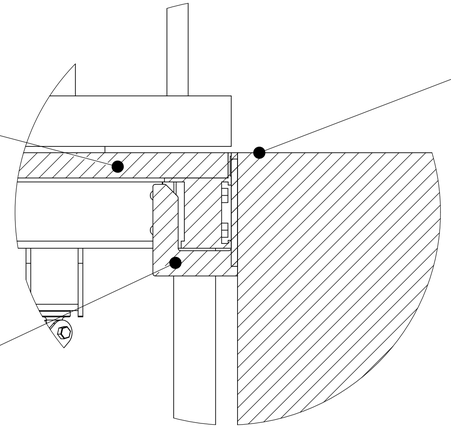
SHEET 4 OF 14



APEX 5040
MOBILE STAGE
(CUSTOMER OWNED)

STAGING DIMENSIONS
DECKS WITH
WUNDERSTRUCTURES





STAGING
DIMENSIONS
DECK

CUSTOM STAGE EXT.
DECK ADAPTERS

APEX 5040
MOBILE STAGE
(CUSTOMER OWNED)

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: 1:50

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ONLY AT APPROPRIATE LINE
AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED
(AS SUBMITTED) _____

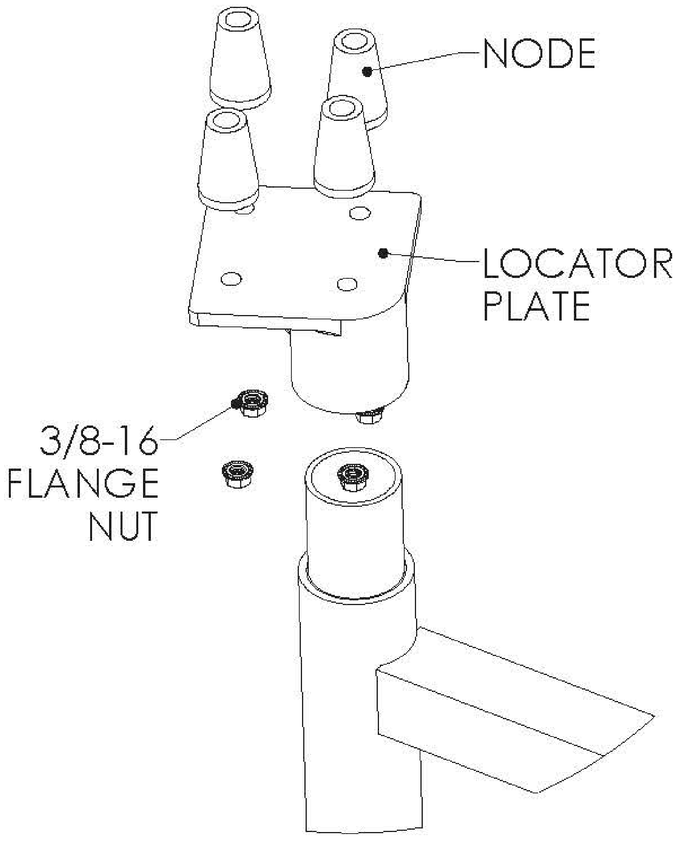
APPROVED
(W/ MINOR REVISIONS) _____

APPROVAL DATE: _____

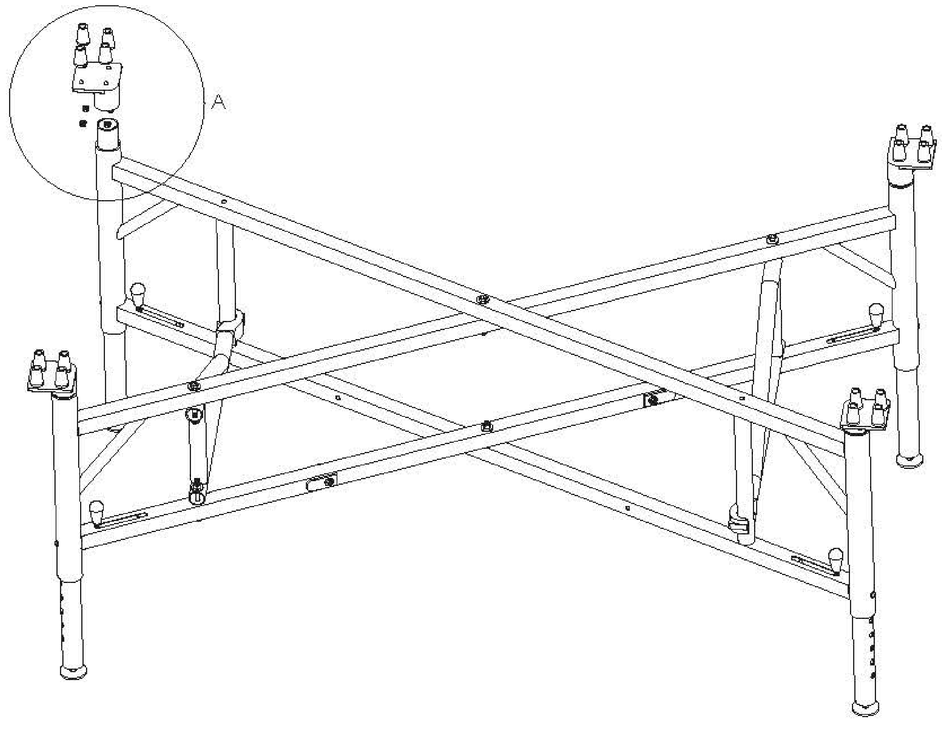
INSTALL DRAWINGS

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NODE INFORMATION



DETAIL A
SCALE 1 : 1.5



STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: NTS

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE RESPOND TO APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED (AS SUBMITTED) _____

APPROVED (W/ MINOR REVISIONS) _____

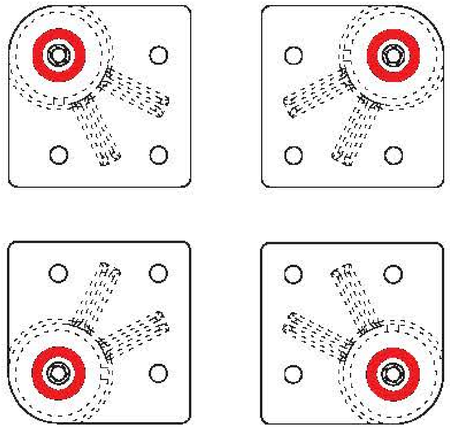
APPROVAL DATE: _____

INSTALL DRAWINGS

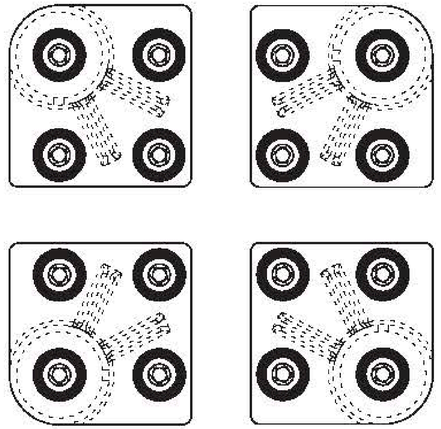
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NODE INFORMATION

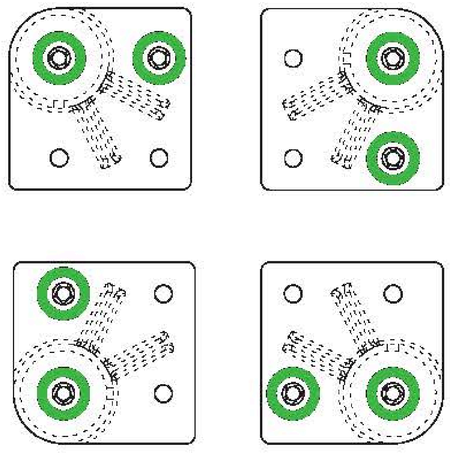
SINGLE



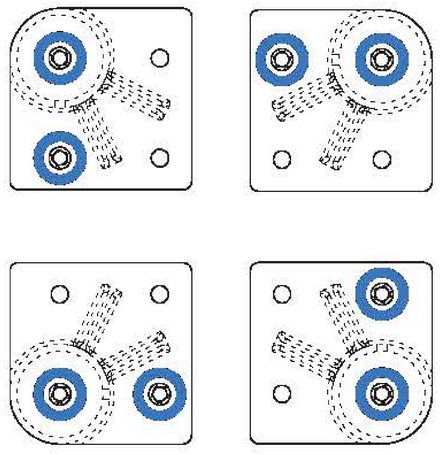
QUAD



LEFT



RIGHT



STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: NTS

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED (AS SUBMITTED) _____

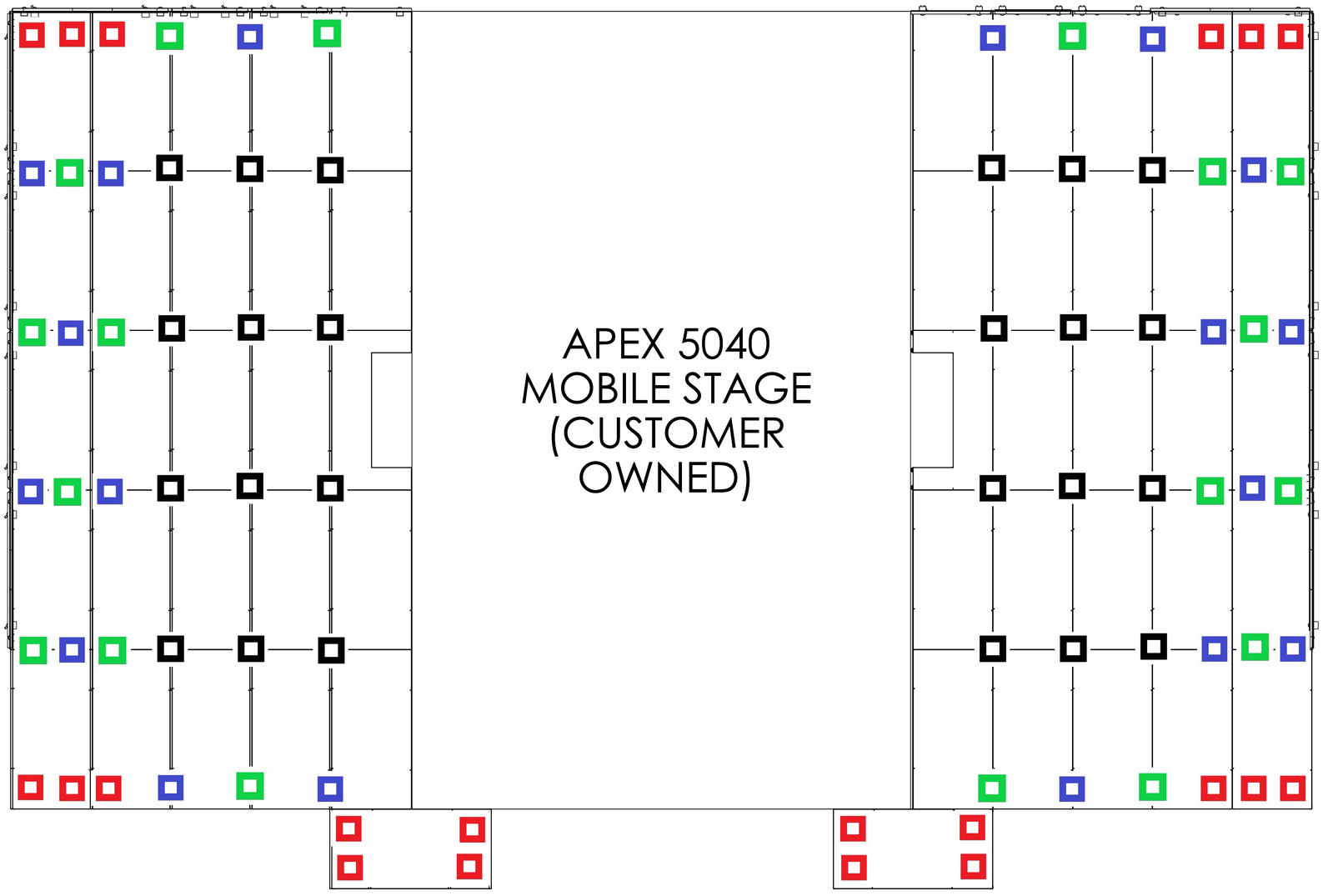
APPROVED (W/ MINOR REVISIONS) _____

APPROVAL DATE: _____

INSTALL DRAWINGS

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NODE LOCATION



APEX 5040
MOBILE STAGE
(CUSTOMER
OWNED)

SYMBOL	DESCRIPTION
	SINGLE NODE CONFIGURATION
	QUAD NODE CONFIGURATION
	LEFT NODE CONFIGURATION
	RIGHT NODE CONFIGURATION

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: 1:38

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
MACHINED SURFACES 125

DRAWING APPROVAL

PLEASE SIGN IN THE APPROPRIATE LINE
AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED
(AS SUBMITTED) _____

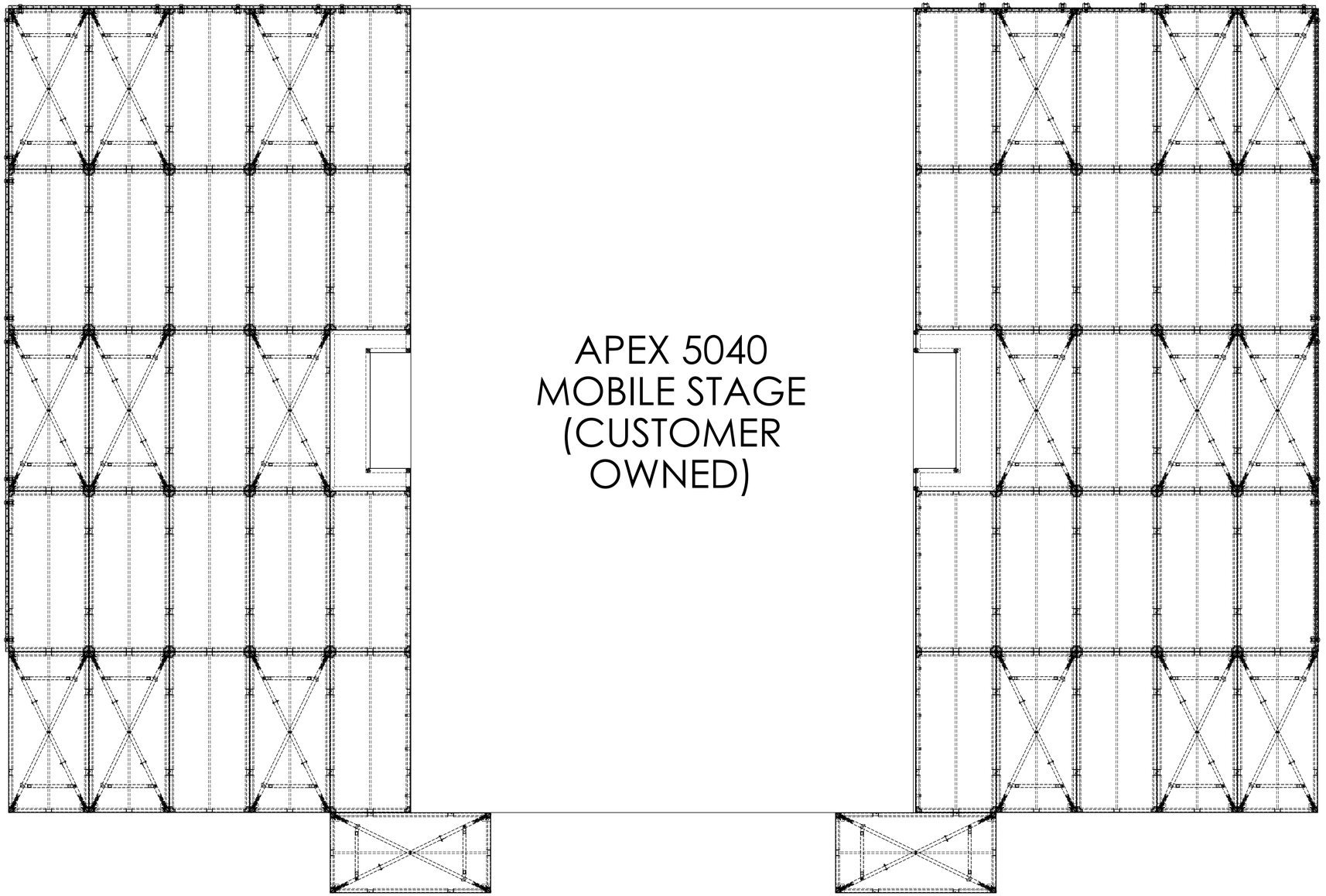
APPROVED
(W/ MINOR REVISIONS) _____

APPROVAL DATE: _____

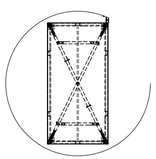
INSTALL DRAWINGS

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WUNDERSTRUCTURE LOCATION



APEX 5040
MOBILE STAGE
(CUSTOMER
OWNED)

SYMBOL	QTY	DESCRIPTION
	20	4' X 8' @ 48"-78" WUNDERSTRUCTURE

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: 1:35

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED
(AS SUBMITTED) _____

APPROVED
(W/ MINOR REVISIONS) _____

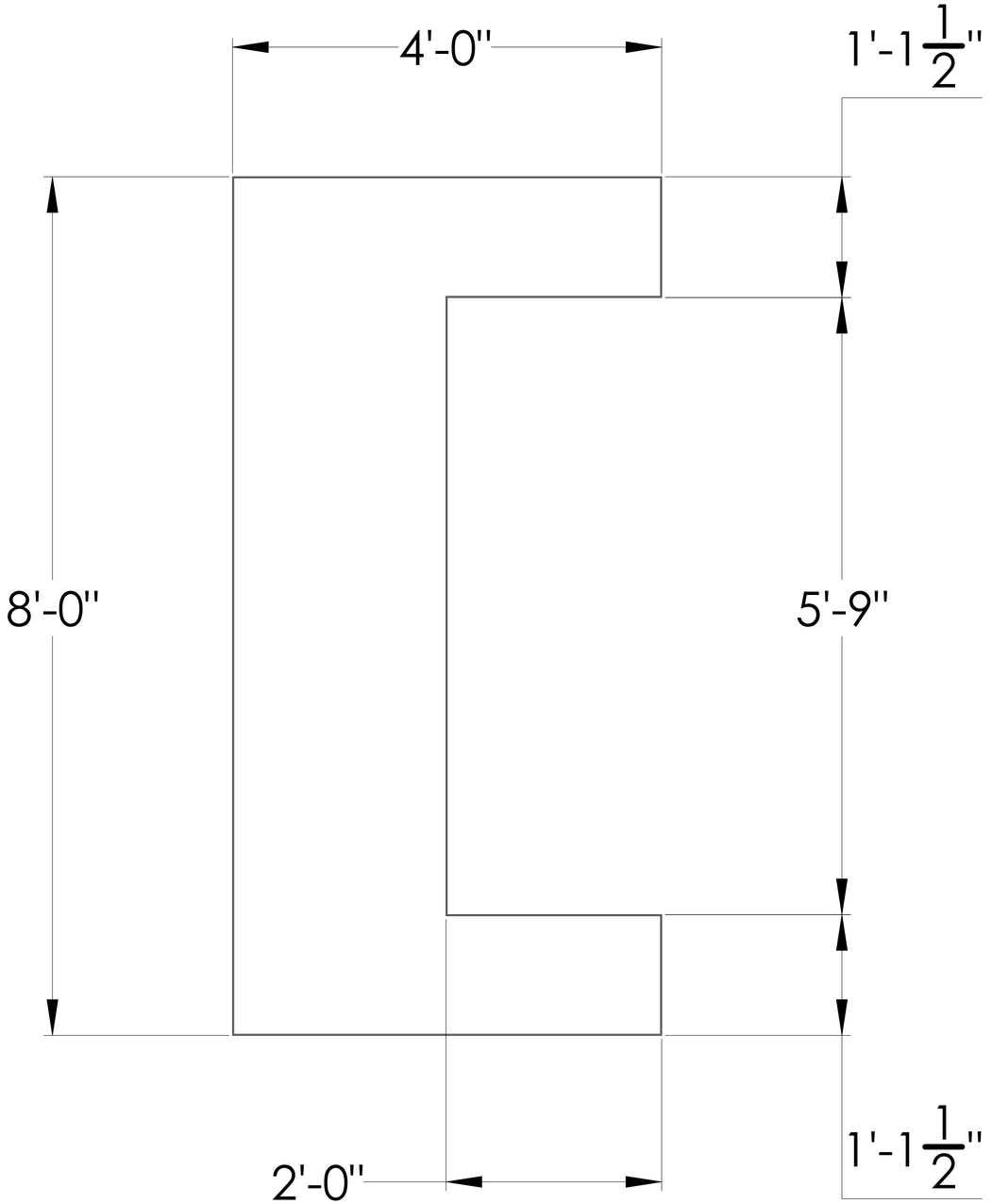
APPROVAL DATE: _____

INSTALL DRAWINGS

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CUSTOM STAGE DECK DIMENSIONS

SHEET 9 OF 14



STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: NTS

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED (AS SUBMITTED) _____

APPROVED (W/ MINOR REVISIONS) _____

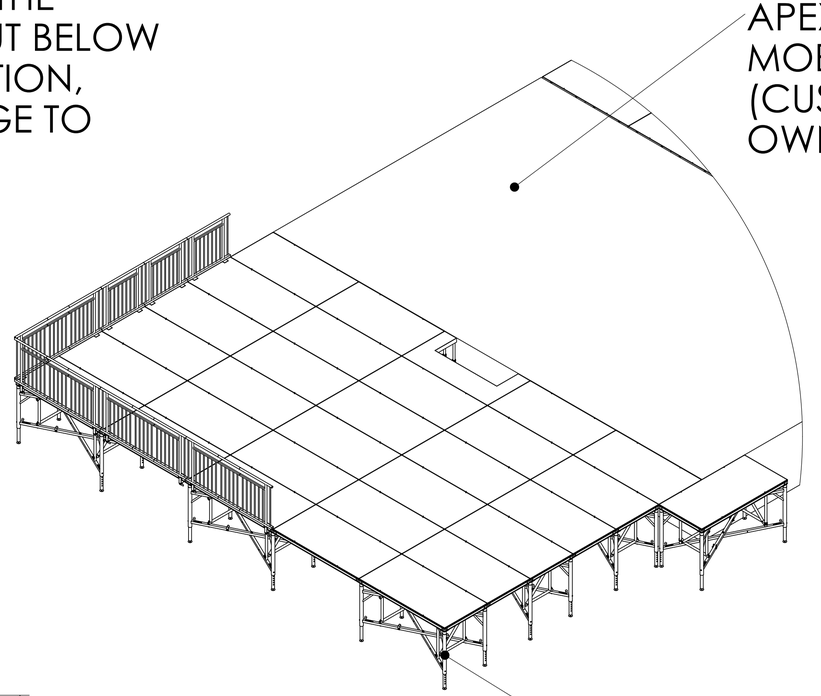
APPROVAL DATE: _____

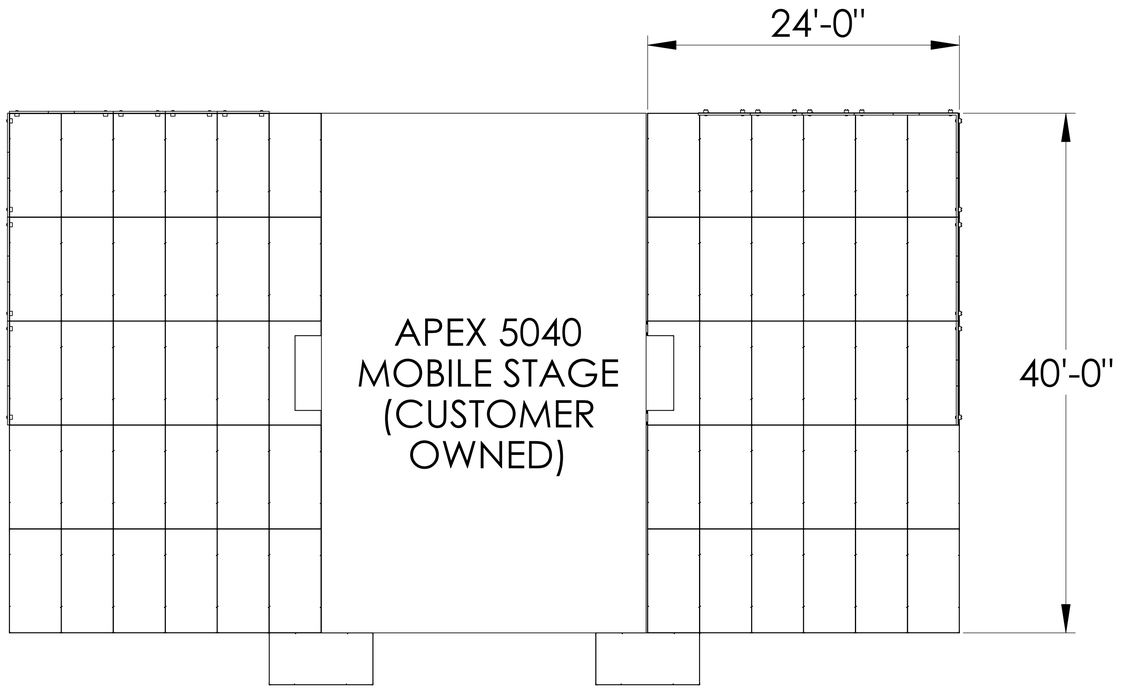
INSTALL DRAWINGS

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NOTES:
1) 10 ADDITIONAL 4' X 8' DECKS ARE BEING PURCHASED ON ORDER # 29811. WITH ADDING THESE DECKS TO THE LAYOUT, THE CUSTOMER WILL GET THE RESULTING DIMENSIONS AND LAYOUT BELOW
2) WITH ADDITIONAL DECKS ADDED TO THE STAGE CONFIGURATION, THE WUNDERSTRUCTURE NODE CONFIGURATION WILL CHANGE TO ACCOMINDATE THE EXTENDED AREA

ADDITIONAL STAGE DECKS





PLAN VIEW

SHEET 10 OF 14

STAGING DIMENSIONS

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: NTS

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

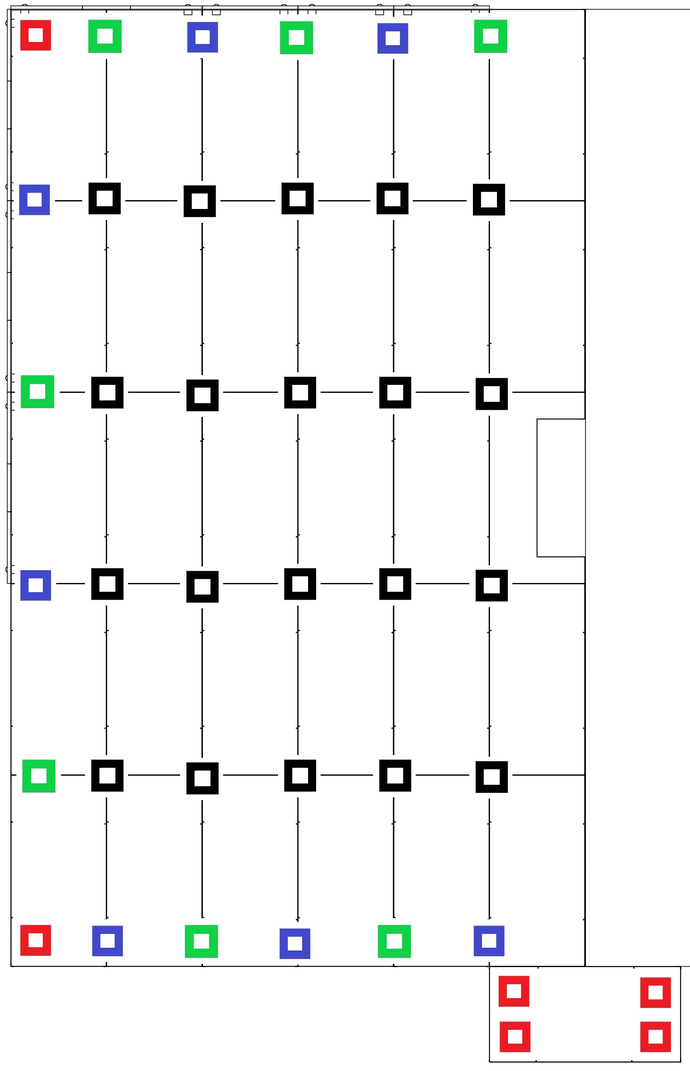
TOLERANCES
UNLESS OTHERWISE SPECIFIED
X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL
PLEASE SIGN ON THE APPROPRIATE LINE
AND RETURN TO SALES@STAGINGDIMENSIONS.COM
APPROVED
(AS SUBMITTED) _____
APPROVED
(W/ NOTED REVISIONS) _____
APPROVAL DATE: _____

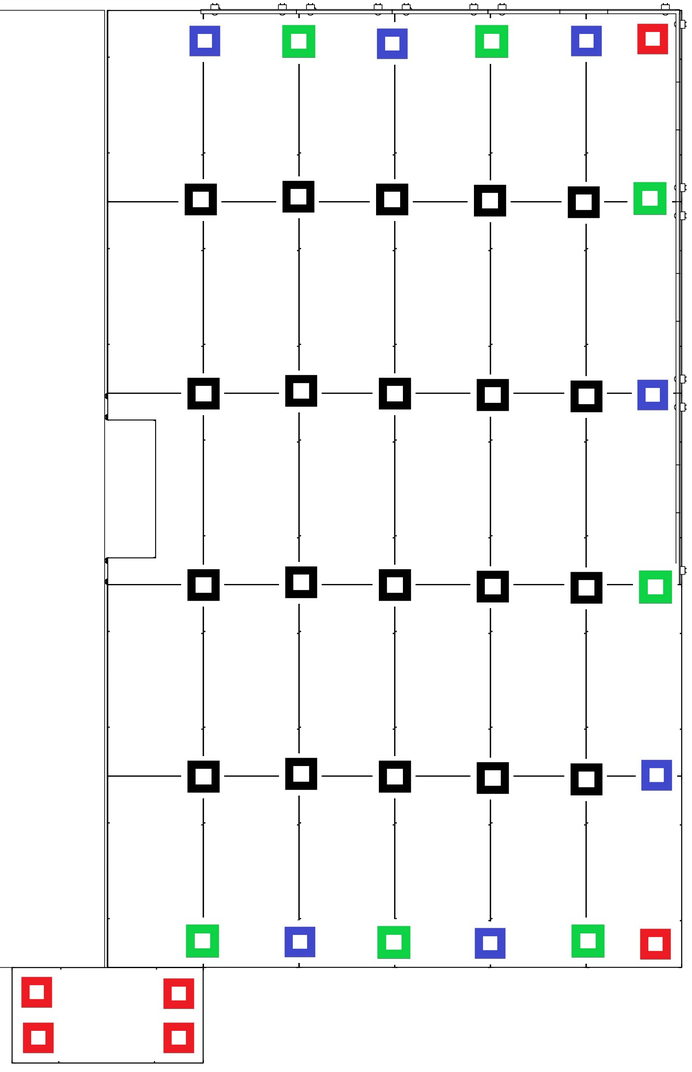
INSTALL DRAWINGS

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ADDITIONAL STAGE NODE CONFIGURATION



APEX 5040
MOBILE STAGE
(CUSTOMER
OWNED)



SYMBOL	DESCRIPTION
	SINGLE NODE CONFIGURATION
	QUAD NODE CONFIGURATION
	LEFT NODE CONFIGURATION
	RIGHT NODE CONFIGURATION

STAGING DIMENSIONS

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: NTS

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
MACHINED SURFACES 125

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED
(AS SUBMITTED) _____

APPROVED
(W/ NOTED REVISIONS) _____

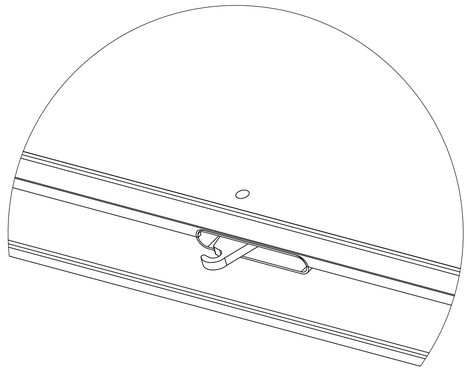
APPROVAL DATE: _____

INSTALL DRAWINGS

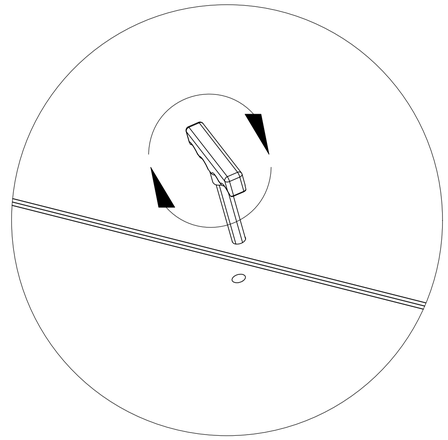
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DECK DETAILS

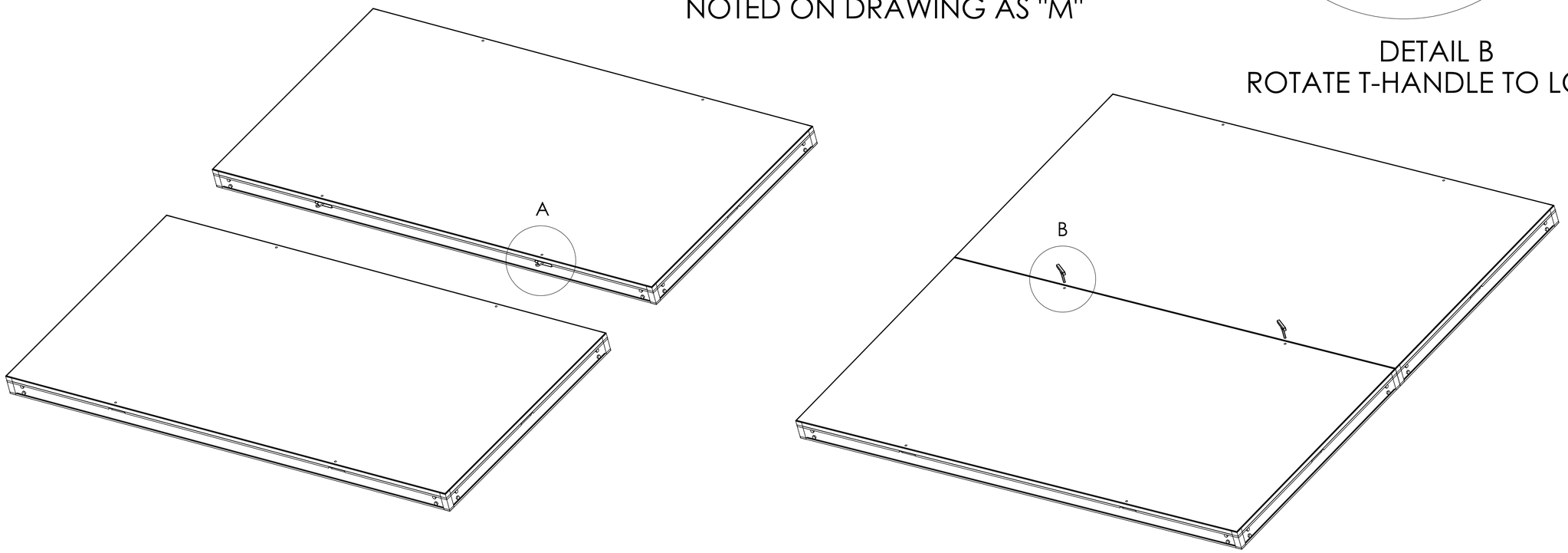
LOCKS NOTED ON DRAWING AS
M. MALE LOCK
F. FEMALE LOCK



DETAIL A (MALE LOCK)
NOTED ON DRAWING AS "M"



DETAIL B
ROTATE T-HANDLE TO LOCK



TYPICAL DECK CONNECTING METHOD

SHEET 12 OF 14

STAGING DIMENSIONS

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY:
SAS

O/N:
29289

CLIENT:
Reflections Productions Inc

TITLE:
Mobile Stage Wing Extensions

REV: C

DATE DRAWN:
1/31/2023

SCALE: 1:100

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED
X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

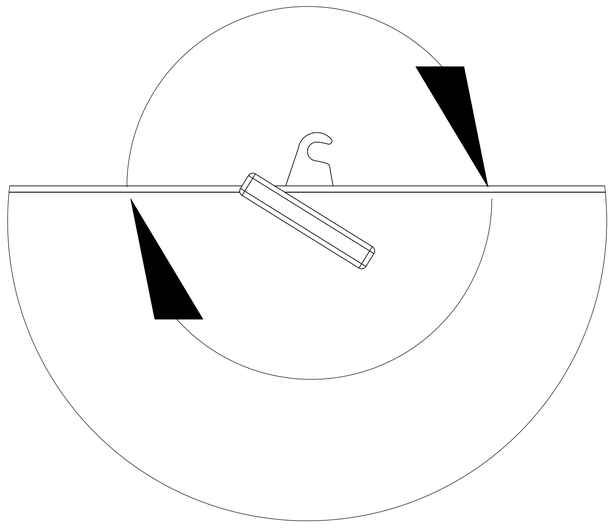
DRAWING APPROVAL
PLEASE SIGN ON THE APPROPRIATE LINE
AND RETURN TO SALES@STAGINGDIMENSIONS.COM
APPROVED
(AS SUBMITTED) _____
APPROVED
(W/ MINOR REVISIONS) _____
APPROVAL DATE: _____

INSTALL DRAWINGS

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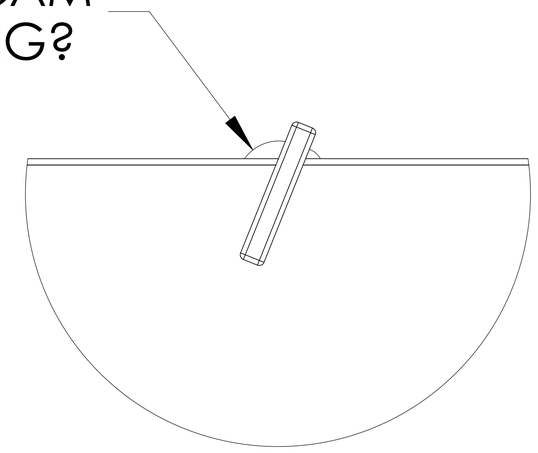
LOCK DETAILS

DOES THE DUAL LOCK CAM NEED TO BE RESET?



ROTATE COUNTER CLOCKWISE WITH T-HANDLE

RADIUS OF CAM PROTRUDING?



RADIUS OF CAM PROTRUDING

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: 1:1.5

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE SIGN ON THE APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

APPROVED (AS SUBMITTED) _____

APPROVED (W/ MINOR REVISIONS) _____

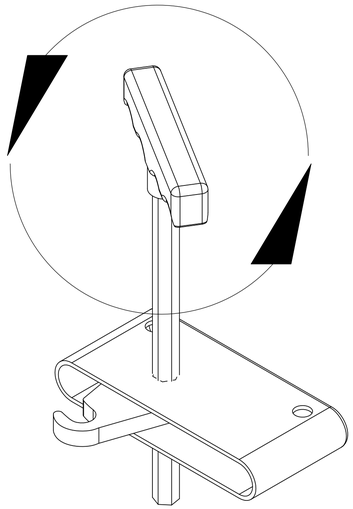
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INSTALL DRAWINGS

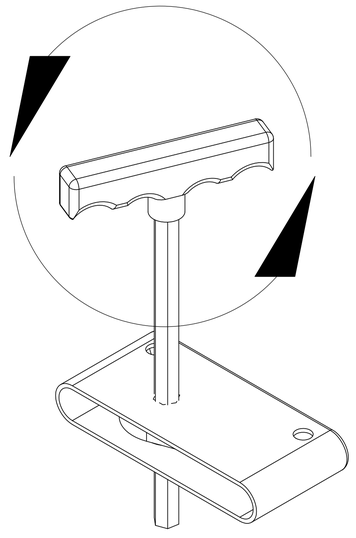
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LOCK DETAILS

HOW TO RESET THE DUAL LOCK CAM



ROTATE COUNTER CLOCKWISE UNTIL CAM HITS BACK OF LOCK



CONTINUE ROTATING COUNTER CLOCKWISE 1 FULL ROTATION

STAGING DIMENSIONS, INC.
31 BLEVINS DRIVE
NEW CASTLE, DE 19720
WWW.STAGINGDIMENSIONS.COM

DWN BY: SAS

O/N: 29289

CLIENT: Reflections Productions Inc

TITLE: Mobile Stage Wing Extensions

REV: C

DATE DRAWN: 1/31/2023

SCALE: 1:1

EVENT START DATE:

EVENT END DATE:

EVENT LOCATION:

TOLERANCES
UNLESS OTHERWISE SPECIFIED

X.X ± 0.1
X.XX ± 0.01
X.XXX ± 0.001
FRACTIONAL ± 1/32"
ANGULAR ± 1/2 °
125
MACHINED SURFACES

DRAWING APPROVAL

PLEASE RETURN ONLY APPROPRIATE LINE AND RETURN TO SALES@STAGINGDIMENSIONS.COM

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APPROVED (W/ NOTED REVISIONS) _____

APPROVAL DATE: _____

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ALUMINUM GUARDRAIL

Construction

Features:

- 2” X 2” Aluminum Tube, ½” & 1 ¼” Schedule 40 & Aluminum Plate Construction
- Meets 200 lb. Side Load Impact Requirement
- 36” Intermediate Handrail
- 42” Continuous Handrail
- 2” High Chairstop
- Infill Balusters Spaced Less Than 4” Apart
- Jaw-Type Clamp Device Attaches To a Variety of Stages
- Side Mount & Thru Deck Attachment Available
- Requires No Tools For Installation
- Starter Ramp and Corner Sections Available
- Custom Designs Available

NEVER USE GUARDRAIL WITHOUT CLAMP DEVICE

Sizes / Weights:

• 2’ Long x 42” High ADA Guardrail	18 lbs.
• 3’ Long x 42” High ADA Guardrail	20 lbs.
• 4’ Long x 42” High ADA Guardrail	24 lbs.
• 5’ Long x 42” High ADA Guardrail	32 lbs.
• 6’ Long x 42” High ADA Guardrail	46 lbs.
• 7’ Long x 42” High ADA Guardrail	50 lbs.
• 8’ Long x 42” High ADA Guardrail	57 lbs.
• 8’ Long x 42” High ADA Ramp Guardrail	68 lbs.

Side Mount Guardrail Receivers allow attatchment to decks at low elevations.



4’ ADA Alumnium Guardrail



8’ ADA Alumnium Guardrail



8’ Starter Ramp Loop Guardrail



Side Mount Guardrail Receiver



Straight Connector



Corner Connector



Corner Connector



Guardrail Clamp

866.591.3471
31 Blevins Drive
New Castle, DE 19720
www.stagingdimensions.com

CLARK | REDER
ENGINEERING

6/23/2021

Staging Dimensions
67 Industrial Blvd
New Castle, DE 19720
Attn: Kim Moore

RE: SD5000 Deck Certification 2021
CRE Project: 20.1313.01

Dear Kim:

Clark Reder Engineering Inc. has performed an independent structural assessment of the load bearing capacity of the Staging Dimensions SD5000 deck for use in all 50 states of the United States. Our review is based on independent calculations as well as load tests performed on the decks in August 2001 by Twin City Testing Corporation. Attached please find the provided drawings as well as the testing lab report validating the allowable load capacity.

Clark Reder Engineering Inc. deems that the decks can be safely rated to support a uniformly distributed live load of 200 pounds per square foot (psf). The deck meets the requirements as set forth in the 2015 International Building Code as well as the 2018 International Building Code.

We trust this information is sufficient for your needs at this time. If you need any additional information, please do not hesitate to contact me.

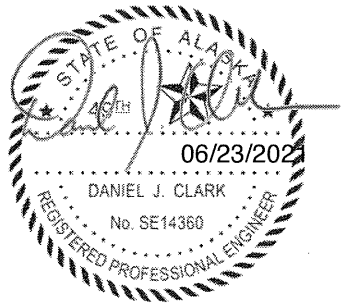
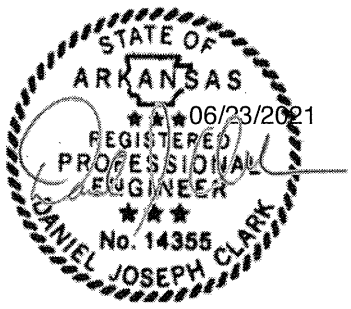
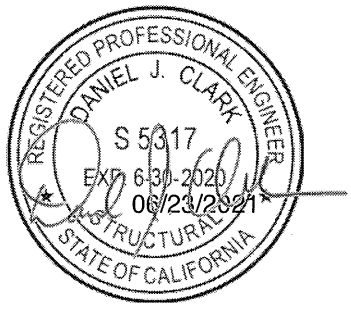
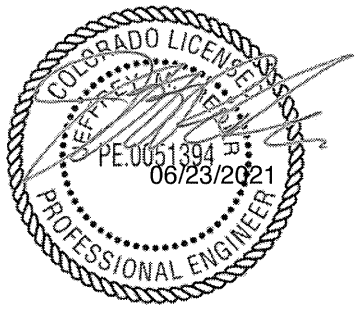
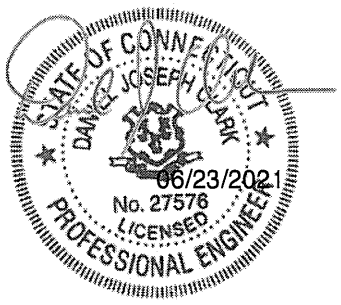
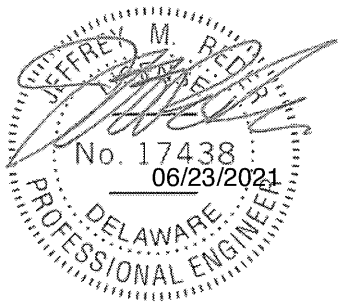
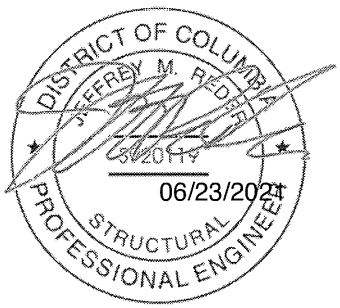
Regards,
Clark Reder Engineering, Inc.



Jeffrey M. Reder, P.E

Clark Reder Engineering
10091 Mosteller Lane
West Chester, OH 45069

Phone: (513) 851-1223
Fax: (513) 297-0934
www.clarkreder.com

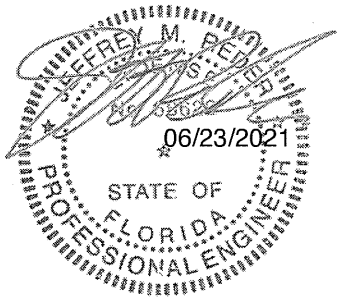
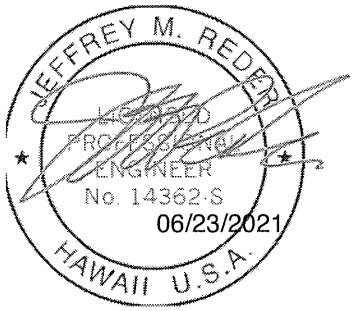
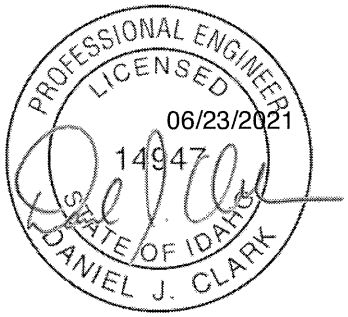
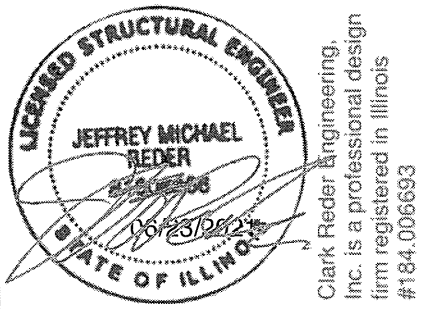
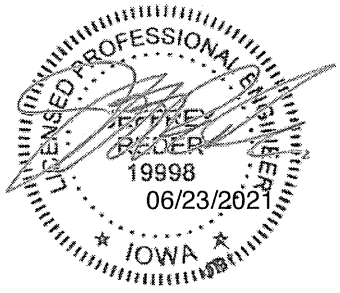
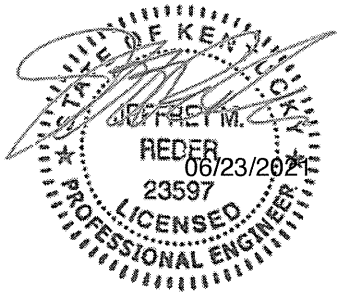
Alabama	Alaska	Arizona
		
Daniel J. Clark, P.E. P.E. #: 31076	Daniel J. Clark, S.E. P.E. # SE14360	Jeffrey M. Reder, P.E. P.E. # 50654
Arkansas	**California**	**Colorado**
		
Daniel J. Clark, P.E. P.E. # 14355	Daniel J. Clark, S.E. P.E. # S5317	Jeffrey M. Reder, P.E. P.E. # PE0051394
Connecticut	**Delaware**	**District of Columbia**
		
Daniel J. Clark, P.E. P.E. # 27576	Jeffrey M. Reder, P.E. P.E. # 17438	Jeffrey M. Reder, P.E. P.E. # S920119

Project: SD5000 Decks
Client: Staging Dimensions

CRE Project #: 21.1313.01
Date: 06/23/2021
Engineer: JMR

Clark Reder Engineering
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West Chester, OH 45069

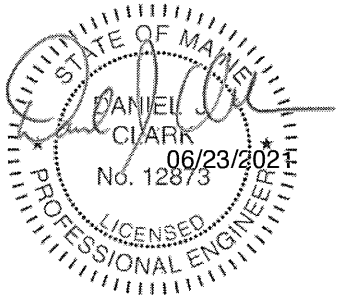
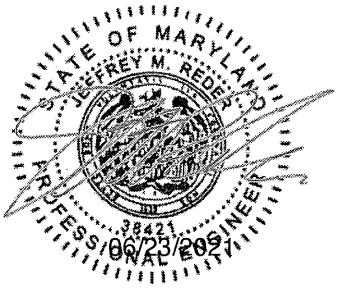
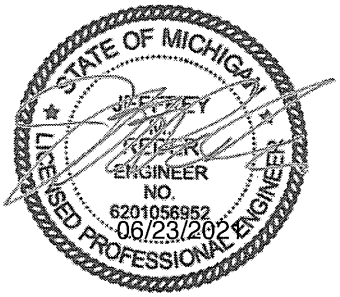
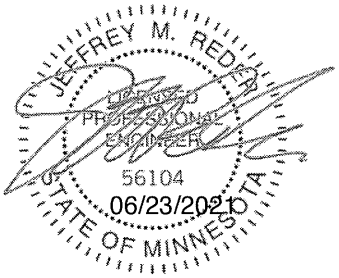
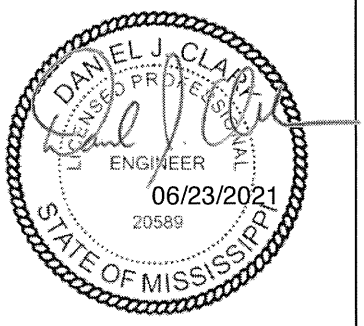
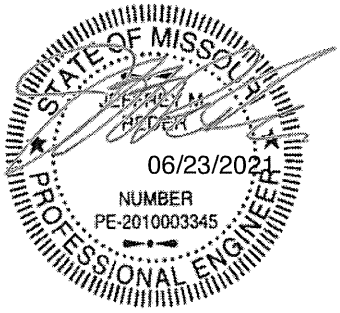
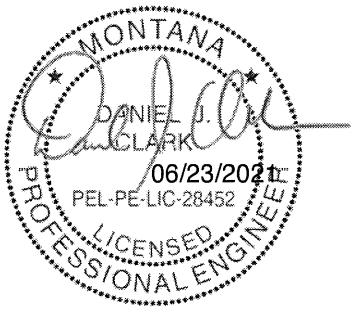
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Fax: (513) 297-0934
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Florida	Georgia	Hawaii
		
Jeffrey M. Reder, P.E. P.E. # 68622	Jeffrey M. Reder, P.E. P.E. # PE034581	Jeffrey M. Reder, P.E. P.E. # 14362-S
Idaho	**Illinois**	**Indiana**
		
Daniel J. Clark, P.E. P.E. # 14947	Jeffrey M. Reder, S.E. P.E. # 81006866	Jeffrey M. Reder, P.E. P.E. # PE11600603
Iowa	**Kansas**	**Kentucky**
		
Jeffrey M. Reder, P.E. P.E. # 19998	Daniel J. Clark, P.E. P.E. # 21809	Jeffrey M. Reder, P.E. P.E. # 23597

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West Chester, OH 45069

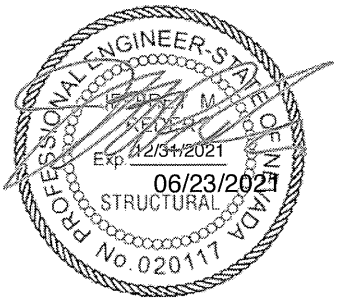
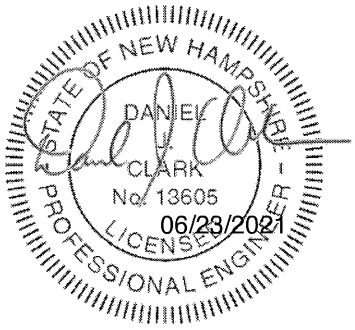
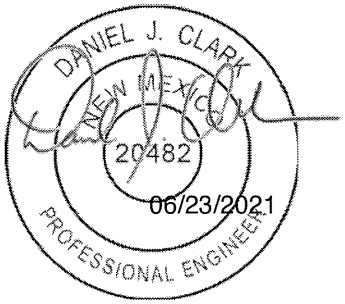
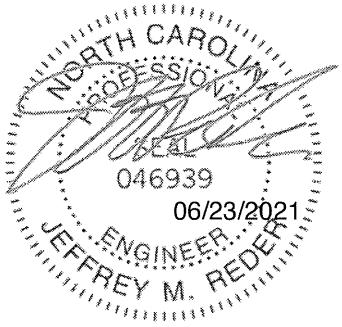
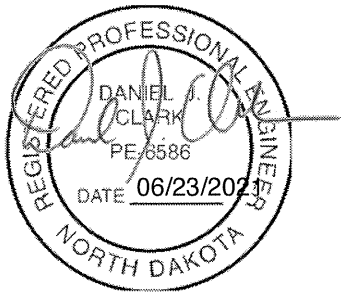
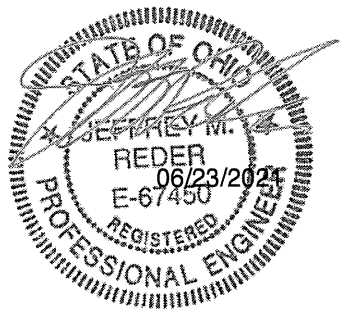
CLARK REDER ENGINEERING

Phone: (513) 851-1223
Fax: (513) 297-0934
www.clarkreder.com

Louisiana	Maine	Maryland
		 Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License # 38421 Expiration Date: 01/29/2022
Jeffrey M. Reder, P.E. P.E. # 30304	Daniel J. Clark, P.E. P.E. # 12873	Jeffrey M. Reder, P.E. P.E. # 38421
Massachusetts	**Michigan**	**Minnesota**
		 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota. Signature: Typed or Printed Name: JEFFREY M. REDER Date: 06/23/2021 License #: 56104
Jeffrey M. Reder, P.E. P.E. # 48535	Jeffrey M. Reder, P.E. P.E. # 6201056952	Jeffrey M. Reder, P.E. P.E. # 56104
Mississippi	**Missouri**	**Montana**
		
Daniel J. Clark, P.E. P.E. # 20589	Jeffrey M. Reder, P.E. P.E. # PE-2010003345	Daniel J. Clark, P.E. P.E. # 28452

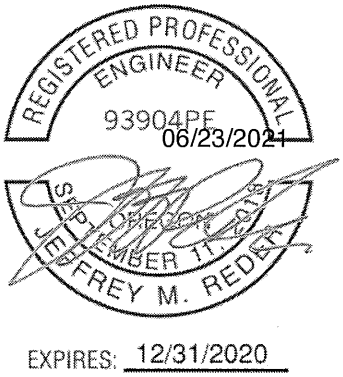
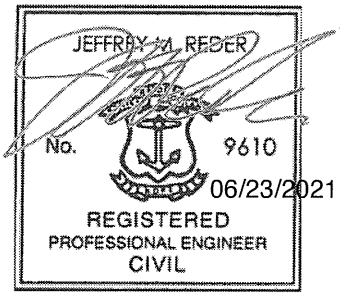
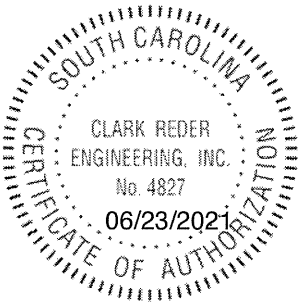
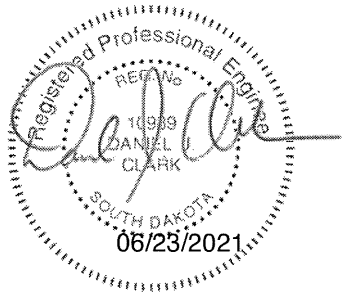
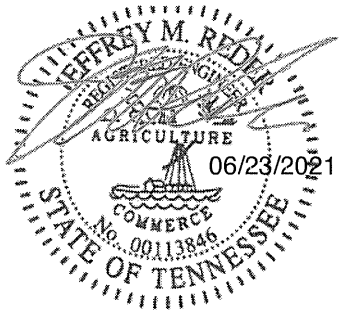
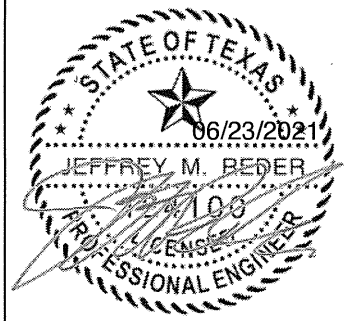
Clark Reder Engineering
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Fax: (513) 297-0934
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Nebraska	Nevada	New Hampshire
		
Daniel J. Clark, P.E. P.E. # E-14098	Jeffrey M. Reder, P.E. P.E. # 020117	Daniel J. Clark, P.E. P.E. # 13605
New Jersey	**New Mexico**	**New York**
		
Jeffrey M. Reder, P.E. P.E. # 24GE05300600	Daniel J. Clark, P.E. P.E. # 20482	It is a violation of law for any person, unless acting under the direction of a licensed professional engineer, to alter this document in any way. If any part of this document is altered, the altering engineer shall affix to this document their seal and the notation "altered by" followed by their signature, the date, and description. Jeffrey M. Reder, P.E. P.E. # 097763-1
North Carolina	**North Dakota**	**Ohio**
		
Jeffrey M. Reder, P.E. P.E. # 046939	Daniel J. Clark, P.E. P.E. # PE-6586	Jeffrey M. Reder, P.E. P.E. # E-67450

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West Chester, OH 45069

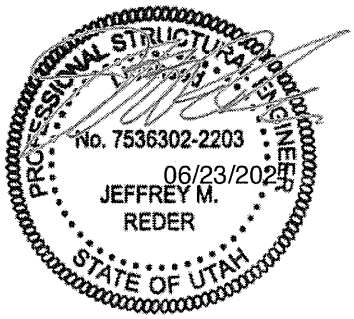
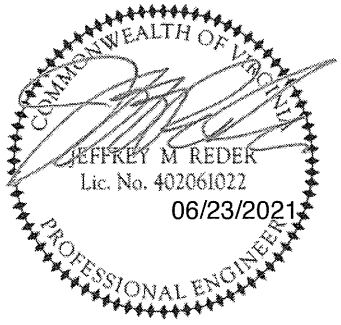
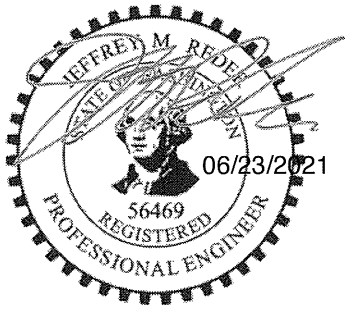
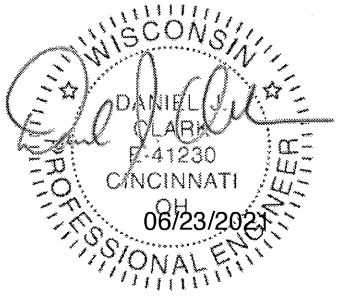
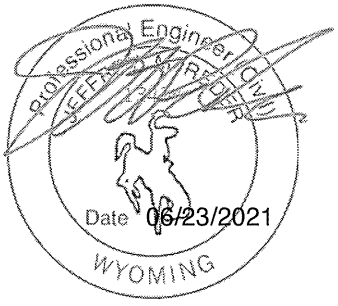
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Fax: (513) 297-0934
www.clarkreder.com

Oklahoma	Oregon	Pennsylvania
	 EXPIRES: 12/31/2020	
Jeffrey M. Reder, P.E. P.E. # 24780	Jeffrey M. Reder, P.E. P.E. # 93904PE	Jeffrey M. Reder, P.E. P.E. # PE77455
Rhode Island	**South Carolina**	**South Carolina**
		
Jeffrey M. Reder, P.E. P.E. # 9610	Jeffrey M. Reder, P.E. P.E. # 35797	Clark Reder Engineering # 4827
South Dakota	**Tennessee**	**Texas**
		 Clark Reder Engineering F-12154
Daniel J. Clark, P.E. P.E. # 10989	Jeffrey M. Reder, P.E. P.E. # 00113846	Jeffrey M. Reder, P.E. P.E. # 124100

Clark Reder Engineering
10091 Mosteller Lane
West Chester, OH 45069

CLARK REDER ENGINEERING

Phone: (513) 851-1223
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Utah	Vermont	Virginia
		
Jeffrey M. Reder, P.E. P.E. # 7536302-2203	Daniel J. Clark, P.E. P.E. # 018.0072612	Jeffrey M. Reder, P.E. P.E. # 402061022
Washington	**West Virginia**	**Wisconsin**
		
Jeffrey M. Reder, P.E. P.E. # 56469	Jeffrey M. Reder, P.E. P.E. # 18628	Daniel J. Clark, P.E. P.E. # E-41230
Wyoming	**Puerto Rico**	**Guam**
		
Jeffrey M. Reder, P.E. P.E. # 13434	Jeffrey M. Reder, P.E. P.E. # 25845	Daniel J. Clark, S.E. P.E. # 1798

GENERAL NOTES AND OPERATIONS PLAN

GOVERNING CODE

2021 INTERNATIONAL BUILDING CODE (BASED ON ASCE 7-16)
ANSI E1.21 (REFERENCES ASCE 37-14)

DESIGN LOADS

1. ROOF LOAD:

    A. STRUCTURE SELFWEIGHT
    B. ROOF TARP: 1 PSF
    C. RIGGING LOADS: NO RIGGING LOADS ON STRUCTURE

2. WIND LOAD (PER ASCE 7):

    A. BASIC WIND SPEED (BASED ON 3-SECOND GUST) = 90 MPH APPLIED TO THE STRUCTURAL FRAME AND PERMANENT ATTACHMENTS FOR AN “OPEN” CONDITION MULTIPLIED BY A REDUCTION FACTOR IN ACCORDANCE WITH ASCE 37-14.
    B. BASIC WIND SPEED (BASED ON 3-SECOND GUST) = 40 MPH APPLIED TO THE STRUCTURAL FRAME AND PROJECTED AREAS OF THE SCRIMMED WALLS FOR THE “FULLY ENCLOSED” CONDITION AND “PARTIALLY ENCLOSED” CONDITION.
    C. WIND REDUCTION FACTOR = 0.75 (BASED ON ASCE 37-14)
    D. BUILDING CATEGORY = II
    E. WIND IMPORTANCE FACTOR, I = 1.0
    F. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
    G. INTERNAL PRESSURE COEFFICIENT PARTIALLY ENCLOSED, GCpi = +0.55, -0.55

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT. UNLESS EXPLICITLY DESCRIBED ELSEWHERE IN THESE APPENDICES, OUR SCOPE INCLUDES ONLY NORMAL LOADING CONDITIONS OCCURRING DURING USE AFTER THE SYSTEM HAS BEEN INSTALLED, BALLASTED, AND LATERALLY STABILIZED IN ACCORDANCE WITH THE SYSTEM'S REQUIRED STABILIZING SYSTEM. OUR SCOPE DOES NOT INCLUDE INSTALLATION MEANS AND METHODS USED DURING INSTALLATION OR REMOVAL OF THE SYSTEM, OCCURRING PRIOR TO OR AFTER THE IN-USE CONDITION.

2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.

3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

4. THE ROOF TARP IS A “SUN-SHADE” SYSTEM ONLY AND IS NOT INTENDED FOR PERSONNEL ACCESS OR SUPPORT. ROOF SYSTEM SHALL BE ACCESSED FROM THE TRUSS COMPONENTS ONLY.

5. ROOF SYSTEM ERECTION:

   A. ALL CONCRETE, WATER BALLAST, OR ANCHORAGE STRAPS SHALL BE IN PLACE PRIOR TO HOISTING OF ROOF SYSTEM.

   B. ROOF SYSTEM SHALL NOT BE HOISTED DURING WIND SPEEDS GREATER THAN 10 MPH.

HEAVY RAIN ACTION PLAN

1. DURING HEAVY RAIN EVENTS, ROOF PANELS SHALL BE CUT OR REMOVED TO ELIMINATE WATER PONDING. AT NO TIME SHOULD PONDED WATER BE ALLOWED TO ACCUMULATE ON THE ROOF STRUCTURE.

2. IF PONDED RAIN IS ALLOWED TO ACCUMULATE AND NOT REMOVED, ALL PERSONNEL SHOULD MAINTAIN SAFE CLEAR DISTANCE AS COLLAPSE OF THE ROOF IS POTENTIALLY IMMINENT.

HIGH WIND-LOAD ACTION PLAN (HWAP) REQUIREMENTS

THIS SECTION IS BASED ON THE ANSI STANDARD “E1.21, TEMPORARY STRUCTURES USED FOR TECHNICAL PRODUCTION OF OUTDOOR ENTERTAINMENT EVENTS”.

1. THE HWAP DEFINES WIND DESIGN SPEEDS FOR AN “OPEN MAIN STAGE ROOF SYSTEM” AND A “FULLY ENCLOSED MAIN STAGE ROOF SYSTEM”.

A. AN “OPEN MAIN STAGE ROOF SYSTEM” SHALL BE DEFINED BY A CONDITION WHERE THE MAIN STAGE ROOF STRUCTURE IS FULLY ERECTED WITH NO WALL PANELS OR STAGE EQUIPMENT INSTALLED ON THE ROOF STRUCTURE.
B. A “FULLY ENCLOSED MAIN STAGE ROOF SYSTEM” SHALL BE DEFINED BY A CONDITION WHERE THE MAIN STAGE ROOF STRUCTURE IS FULLY ERECTED WITH SIDESTAGE OR BACKSTAGE WALL PANELS OR STAGE EQUIPMENT INSTALLED ON THE ROOF STRUCTURE.
C. WIND DESIGN SPEEDS FOR THE “OPEN” CONDITION AND THE “FULLY ENCLOSED” CONDITION ARE DEFINED IN THE “LOADS” SECTION, ABOVE.

2. THE PURPOSE OF THE HWAP IS TO ENSURE THAT ALL STRUCTURES IN THE STAGE BLOCK (STAGE, STAGE ROOF, SIDE STAGE SCAFFOLD TOWERS & BACKSTAGE) AREA WILL REMAIN SAFE DURING ALL WIND CONDITIONS.

A. A SAFE MEANS OF USING A LOWER WIND DESIGN SPEED FOR A FULLY ENCLOSED MAIN STAGE ROOF SYSTEM

B. THE HWAP PROVIDES A MEANS OF SAFELY RESPONDING TO INCREASING WIND LOAD DURING PERIODS OF VENUE OPERATION.

C. THE HWAP IS ONLY INTENDED TO PROVIDE A METHOD FOR REDUCING THE PROJECTED WIND AREA ON THE PERFORMANCE STAGE MAIN ROOF ONLY.

D. THE HWAP PERTAINS TO REMOVAL OF MAIN ROOF SIDE WALLS AND BACK WALLS ONLY.

E. THE HWAP SHALL BE IN FORCE AT ANY TIME WHEN THE MAIN STAGE ROOF SYSTEM FABRIC SIDEWALLS AND BACK WALLS ARE INSTALLED.

F. THE HWAP IS NOT REQUIRED WHEN THE MAIN STAGE ROOF SIDEWALLS AND BACKWALLS ARE NOT INSTALLED.

3. THE FOLLOWING PROVISIONS MUST BE MET PRIOR TO IMPLEMENTATION OF THE HWAP;

A. THE FABRIC SIDEWALL AND BACKWALL INSTALLATION METHOD MUST ALLOW FOR THESE UNITS TO BE LOWERED IN A CONTROLLED FASHION IN LESS THAT 5 MINUTES FROM NOTICE OF PUTTING THE HWAP INTO ACTION.

B. SPECIFIC INSTALLATION DETAILS MUST BE APPROVED BY THE ENGINEER OF RECORD.

4. HWAP TRAINING:

A. THE VENUE OPERATOR SHALL PROVIDE FOR HWAP TRAINING OR ENSURE THAT THE TRAINING IS PROVIDED BY OTHERS.

B. TRAINING SPECIFICS:

1. A DOCUMENTED RECORD OF TRAINING SHALL BE KEPT ON SITE AND IN THE VENUE OPERATORS GENERAL OFFICES.
2. ALL HWAP TRAINED PERSONNEL SHALL BE RETRAINED AFTER A PERIOD OF 3 YEARS OR AFTER THEY HAVE NOT WORKED AT THE VENUE FOR A PERIOD OF 1 YEAR.
3. A MOBILIZATION MEETING SHALL TAKE PLACE AT THE BEGINNING OF EACH EVENT TO DEFINE SPECIFIC RESPONSIBILITIES FOR ONSITE HWAP PERSONNEL.
4. AN HWAP CREW MANAGER SHALL BE DESIGNATED DURING THE MOBILIZATION MEETING.
5. THE HWAP CREW MANAGER SHALL HAVE AUTHORITY TO IMPLEMENT THE HWAP AT ANY TIME AND UNDER ANY CIRCUMSTANCES HE/SHE SEES FIT.

5. HIGH WIND ACTION PLAN:

A. THE HWAP SHALL BE IN FORCE WHEN ANY OF THE FOLLOWING CONDITIONS OCCUR:

1. FABRIC SIDEWALLS AND/OR BACKWALLS ARE INSTALLED ON THE MAIN STAGE ROOF SYSTEM.

2. THE VENUE IS BEING USED FOR AN EVENT.
   a. AN EVENT SHALL BE DEFINED AS ANY CONCERT, REHEARSAL, RENTAL OR ANY OTHER PROFESSIONAL OR COMMERCIAL USE OF THE STAGE SPACE BY ANY PARTY THAT IN ANY WAY REQUIRES USE OF STAGING EQUIPMENT TO BE ATTACHED TO THE MAIN STAGE ROOF STRUCTURE.
   b. EXCEPTION:
      (1) ANY EXCEPTION SHALL BE ALLOWED IF THE EQUIPMENT INSTALLED ON THE MAIN ROOF UNIT PRESENTS A PROJECTED WIND AREA OF LESS THAN 2% OF THE BARE ROOF AREA AND
      (2) NO SIDEWALLS OR BACKWALLS OF ANY KIND ARE INSTALLED ON THE MAIN STAGE ROOF SYSTEM.

B. THE HWAP SHALL GOVERN OPERATING CONDITIONS DURING A TIME PERIOD THAT SHALL COMMENCE AT THE BEGINNING OF PRE-EVENT OPERATIONS AND SHALL CONTINUE TO SUCH TIME WHEN ALL PERSONNEL AND EQUIPMENT HAVE BEEN REMOVED FROM THE VENUE AT THE CLOSE OF THE SPECIFIC EVENT.

C. MONITORING OF SITE WIND CONDITIONS: ACTIVE ON SITE WIND MONITORING SHALL BE MAINTAINED FOR THE DURATION OF THE MAIN STAGE ROOF SYSTEM ERECTION UNLESS THE WALL PANELS ARE LOWERED TO REDUCE WIND PRESSURE.

1. WIND SPEED MONITORING (ANEMOMETERS): ACTIVE ON-SITE WIND MONITORING SHALL CONSIST ANEMOMETERS ERECTED AT AN ELEVATION WINTHIN 5’ +/- OF THE HIGHEST COMPONENT OF THE MAIN STAGE ROOF SYSTEM. THE ANEMOMETER SHALL NOT BE LOCATED ON THE ROOF SYSTEM OR ITEMS WITHIN THE STAGE BLOCK (THE ONSTAGE AND BACKSTAGE AREAS). THE ANEMOMETER SHALL BE INSTALLED AT A HORIZONTAL DISTANCE OF BETWEEN 50’ AND 250’ AWAY FROM THE BASE OF THE ROOF SYSTEM.

2. LOCAL WEATHER SERVICE MONITORING: REAL-TIME MONITORING OF A LOCAL LINK TO THE NATIONAL WEATHER SERVICE (THIS MAY BE A LINK TO A LOCAL COMMERCIAL OR GOVERNMENT SERVICE) SHALL BE MAINTAINED BY THE HWAP CREW.

3. ACCESS DURING MONITORING: ACCESS IN THE VICINITY OF THE ROOF STRUCTURE SHALL ONLY BE ALLOWED WHILE MONITORING IS MAINTAINED.

D. THE FOLLOWING HIGH-WIND ACTION PLAN MUST BE POSTED IN A CONSPICUOUS AREA ON SITE. IT MUST BE PROTECTED FROM THE WEATHER AND AVAILABLE AT ALL TIMES TO VENUE OPERATORS AND CREW AND ANY AUTHORITY HAVING JURISDICTION RELATING TO THESE MATTERS.

1. WHEN WIND GUSTS EXCEED 20 MPH: MOBILIZE THE HWAP CREW AND HAVE THE NECESSARY PERSONNEL IN PLACE AND ON STANDBY. REMOVE THE LOWER THIRD PORTION OF THE WALL PANELS.

2. WHEN WIND GUSTS EXCEED 25 MPH: REMOVE THE MIDDLE THIRD PORTION OF THE WALL PANELS.

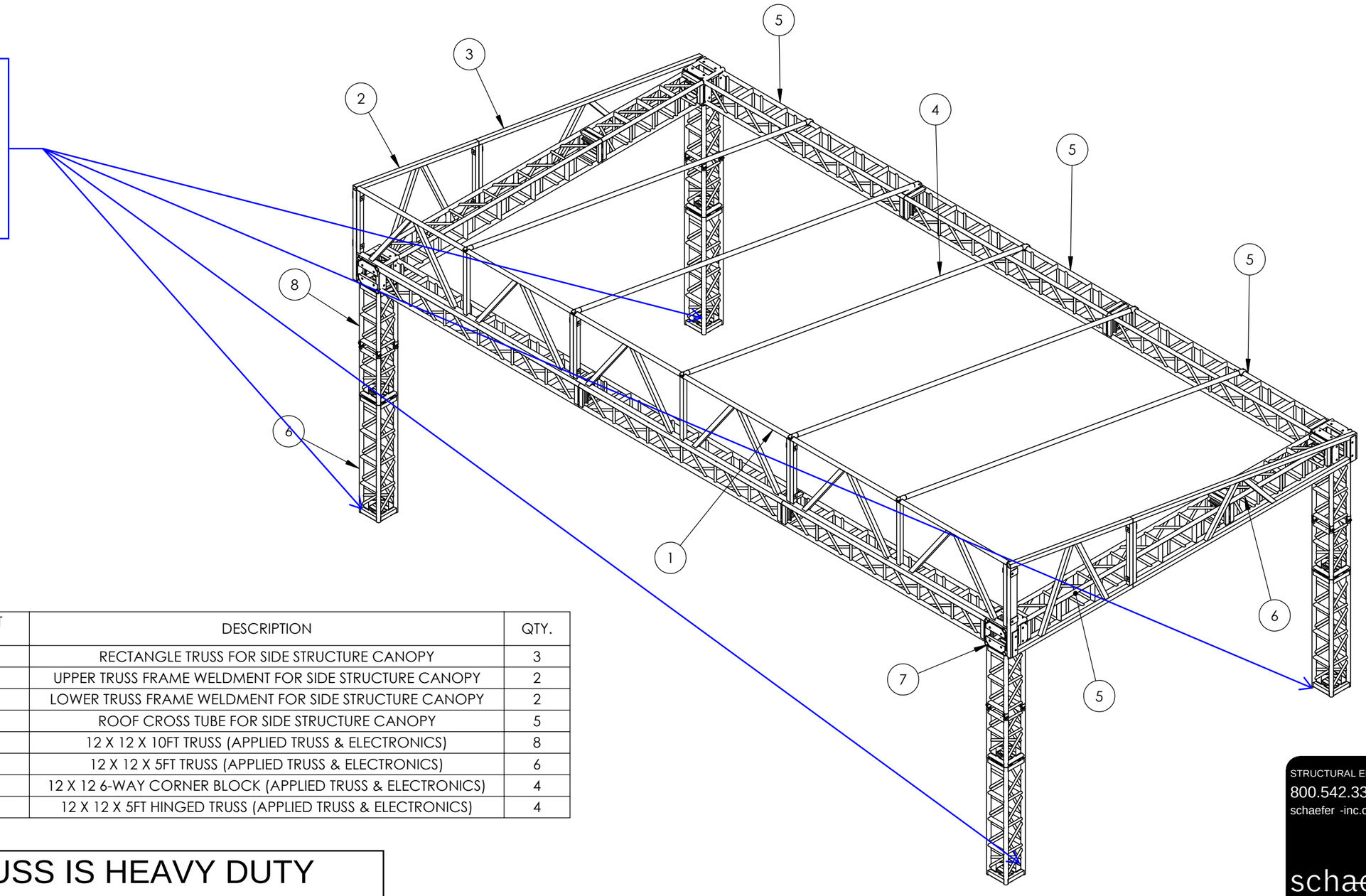
3. WHEN WIND GUSTS EXCEED 35 MPH: REMOVE THE REMAINDER OF THE WALL PANELS.

4. WHEN WIND GUSTS EXCEED 40 MPH: ALL WALL PANELS AND ROOF PANELS MUST BE FULLY LOWERED AND SECURED AT GROUND LEVEL. IF WALL PANELS HAVE NOT BEEN REMOVED WHEN WIND SPEED EXCEEDS 40 MPH, ALL PERSONNEL SHOULD MAINTAIN A SAFE CLEAR DISTANCE FROM THE ROOF SYSTEM AS COLLAPSE OF THE ROOF MAY OCCUR.

5. ONCE WALL PANELS HAVE BEEN REMOVED FROM THE ROOF SYSTEM, THE STAGE BLOCK STRUCTURES ARE SAFE FOR THE FULL DESIGN WIND SPEED WITH REDUCTION FACTOR.

6. DO NOT LOWER ROOF SYSTEM DURING CONDITIONS OF HIGH WIND.

PROVIDE BALLAST AND RIIGGING STRAPS WITH A MINIMUM LOAD OF 1500 POUNDS PER POST



ITEM NO.	DWG/JB PART NUMBER	DESCRIPTION	QTY.
1	AP5040AC07-01	RECTANGLE TRUSS FOR SIDE STRUCTURE CANOPY	3
2	AP5040AC05-01	UPPER TRUSS FRAME WELDMENT FOR SIDE STRUCTURE CANOPY	2
3	AP5040AC06-01	LOWER TRUSS FRAME WELDMENT FOR SIDE STRUCTURE CANOPY	2
4	AP5040AC09-01	ROOF CROSS TUBE FOR SIDE STRUCTURE CANOPY	5
5	9-12-120	12 X 12 X 10FT TRUSS (APPLIED TRUSS & ELECTRONICS)	8
6	9-12-060	12 X 12 X 5FT TRUSS (APPLIED TRUSS & ELECTRONICS)	6
7	9-12-006	12 X 12 6-WAY CORNER BLOCK (APPLIED TRUSS & ELECTRONICS)	4
8	GS-12-HBA	12 X 12 X 5FT HINGED TRUSS (APPLIED TRUSS & ELECTRONICS)	4

ALL BOX TRUSS IS HEAVY DUTY APPLIED TRUSS. SCRIM ALLOWED ON THREE SIDES AND ROOF, SEE HIGH WIND ACTION PLAN FOR REMOVAL OF CLADDING.

STRUCTURAL ENGINEERS
800.542.3302
schaefer -inc.com
schaefer

REV	DATE	BY	DESCRIPTION

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DRAWN	JWB	3/22/2023
CHECKED		
APPROVED		
SCALE	NONE	
SHEET	1 OF 3	
MATERIAL		
COMPANY	N/A	

TITLE:
5040 SIDE STRUCTURE CANOPY

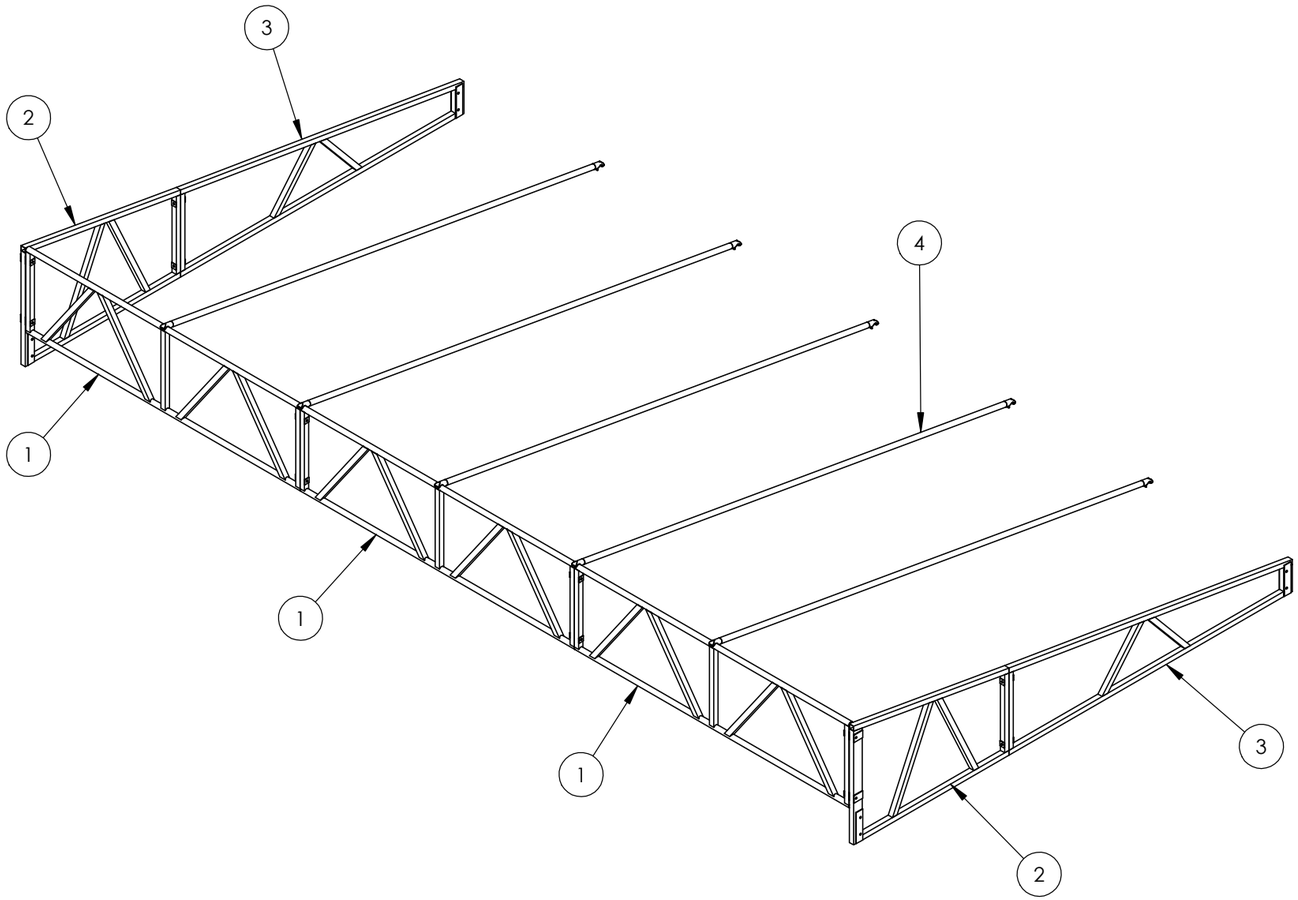
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PROGRESSIVE PRODUCTS INC.
3305 AIRPORT CIRCLE
PITTSBURG, KS 66762
P: (620)-235-1712 F: (620)-235-1772

PROGRESSIVE PRODUCTS INC.

SIZE B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	AP5040AC07-01	RECTANGLE TRUSS FOR SIDE STRUCTURE CANOPY	3
2	AP5040AC05-01	UPPER TRUSS FRAME WELDMENT FOR SIDE STRUCTURE CANOPY	2
3	AP5040AC06-01	LOWER TRUSS FRAME WELDMENT FOR SIDE STRUCTURE CANOPY	2
4	AP5040AC09	ROOF CROSS TUBE FOR SIDE STRUCTURE CANOPY	5



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CHECKED		
APPROVED		
SCALE	NONE	
SHEET	2 OF 3	
MATERIAL		
COMPANY	N/A	

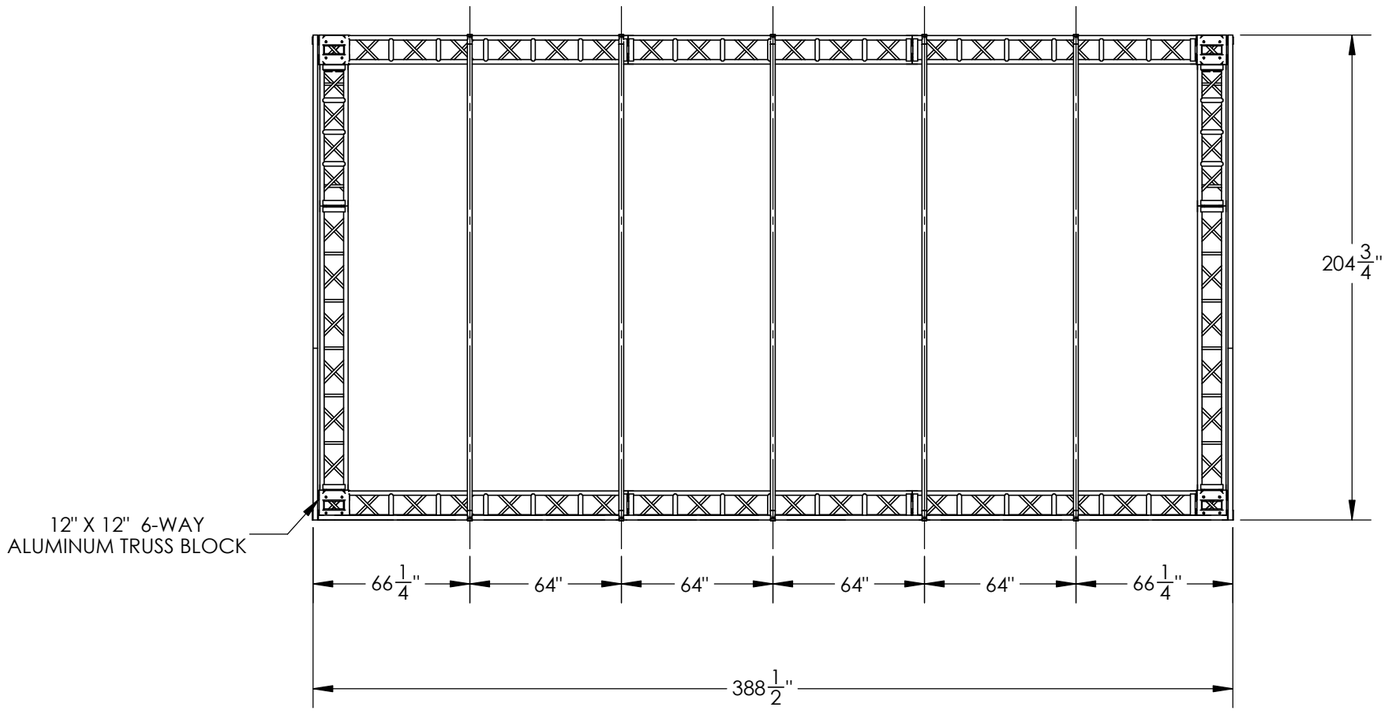
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5040 SIDE STRUCTURE CANOPY ROOF

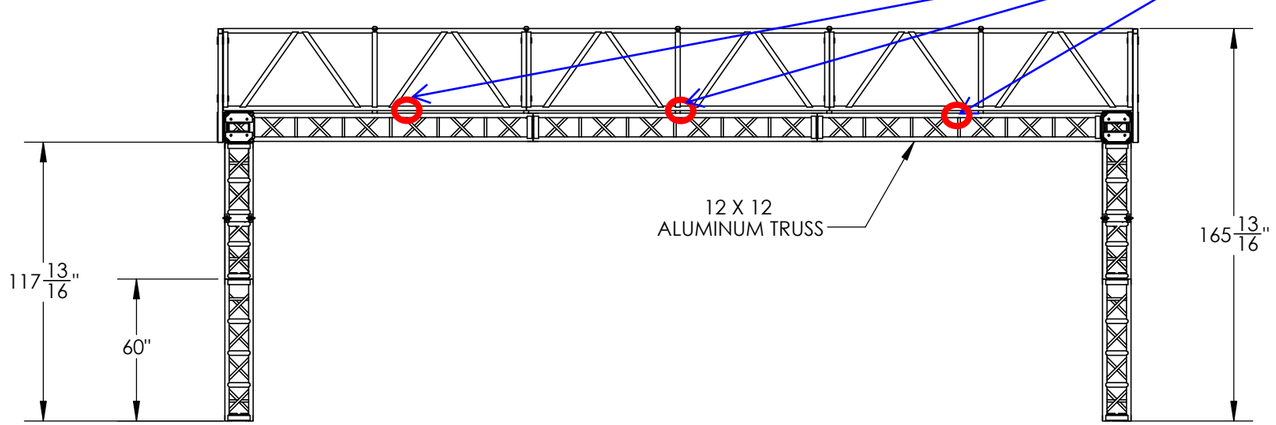
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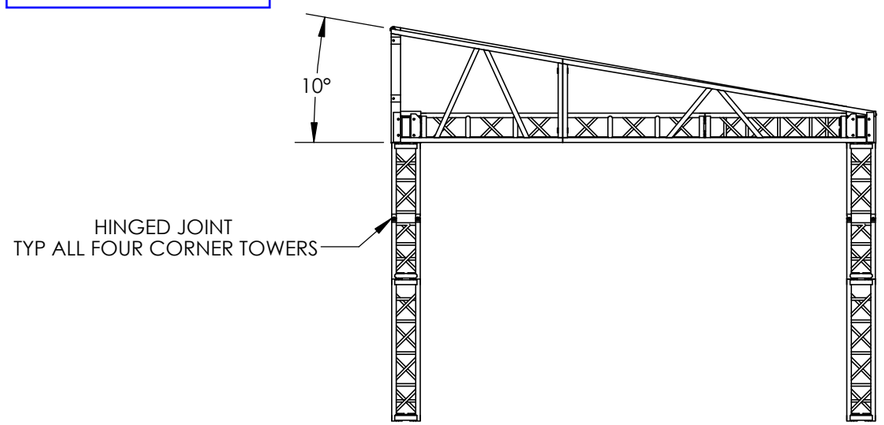
PROGRESSIVE PRODUCTS INC.
3305 AIRPORT CIRCLE
PITTSBURG, KS 66762
P: (620)-235-1712 F: (620)-235-1772

PROGRESSIVE PRODUCTS INC.

SIZE B







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DRAWN	
CHECKED	
APPROVED	
SCALE	NONE
SHEET	3 OF 3
MATERIAL	
COMPANY	N/A

TITLE:
5040 SIDE STRUCTURE CANOPY

DWG. NO. AP5040AC08-03 REV. 0

SIZE B

PROGRESSIVE PRODUCTS INC.
3305 AIRPORT CIRCLE
PITTSBURG, KS 66762
P: (620)-235-1712 F: (620)-235-1772

PROGRESSIVE PRODUCTS INC.

ANCHOR® INDUSTRIES INC.
EVANSVILLE, INDIANA

PHONE NUMBER
812·867·2421

FAX NUMBER
812·867·1429

Anchor products are of superior design and operate best within the parameters of these instructions. It is imperative that the instructions be carefully read and **COMPLETELY FOLLOWED**. Please read installation instructions before the installation or removal of this product. Installation instructions are available online at **www.anchorinc.com** or by calling 1-800-544-4445.

CAUTION:

1. For each installation, the installer is solely responsible for evaluating the site and the proper securing method determined. Some soils require different staking or securing than that provided with the tent. Due to this variety of soil conditions, these are the manufacturer's suggested sequence of installation procedures. Anchor's responsibility is limited to the manufacture of the tent parts and materials. We are not responsible for methods that installers may choose to erect and secure the tent to the ground.

2. The number of stakes suggested in the installation instructions do not necessarily meet all or any relevant codes on the site of the tent installation. The number of stakes suggested **will, in many cases, keep the tent erected,** however, due to various soil conditions; these stakes will be insufficient **to keep the tent secure in high winds**. It is the tent installer's responsibility, not the manufacturer, to determine the appropriate number of stakes to meet the necessary wind loads on the site. Regardless of the number of stakes we suggest, we make no representation or warranty as to whether this specific number of stakes will meet the local tent code. Anchor does not, nor can it make any suggestions, representation, or warranties about the adequate staking required at each specific installation site. Staking information provided in the installation instructions **is not a suggestion about what is necessary to meet a site-specific load.**

   For additional important information, consult: "The IFAI Procedural Handbook For the Safe Installation and Maintenance of Tentage" and the IFAI Pocket Guide "Pullout Capacity of Tent Stakes", both available from the IFAI Tent Rental Division or on our website.

3. Inasmuch as the weather is unpredictable, good judgment and common sense must be incorporated within installation guidelines. It is the responsibility of the tent installer/maintainer to determine the severity of the weather, proper time and method of installation and/or erection and disassembly. **Note: We recommend that snow and ice be removed from the tent surface as soon as possible because accumulation will damage the tent or fabric structure. Please consult with our Engineering Department about the maximum loads for each product.**

   This product has been manufactured for use as a temporary structure. For the safety of all occupants, evacuation is recommended if threatening weather occurs, or if there is any doubt concerning the safe use of this product.

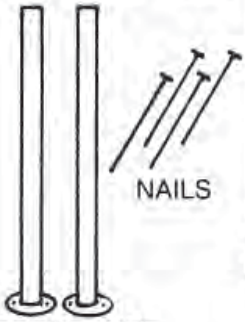
4. Proper safety equipment should be used at all times to insure a safe installation and take down. We suggest a careful evaluation be made to determine safety equipment needed, such as hard hats, steel-toe shoes, safety glasses and other as required. It is our desire that all installations are safe. Please be aware of hidden dangers both underground, i.e., gas lines, water lines, electrical lines, etc. and above the tent such as power lines and telephone lines.

5. Anchor stands behind its products in accordance with its standard Terms and Conditions of sale. A copy of our Terms and Conditions of Sale can be obtained by contacting Anchor at the telephone number and/or address on this document.

FIESTA PAVILION
7'-6" EXTENSION
ARRANGE PARTS FOR ASSEMBLY

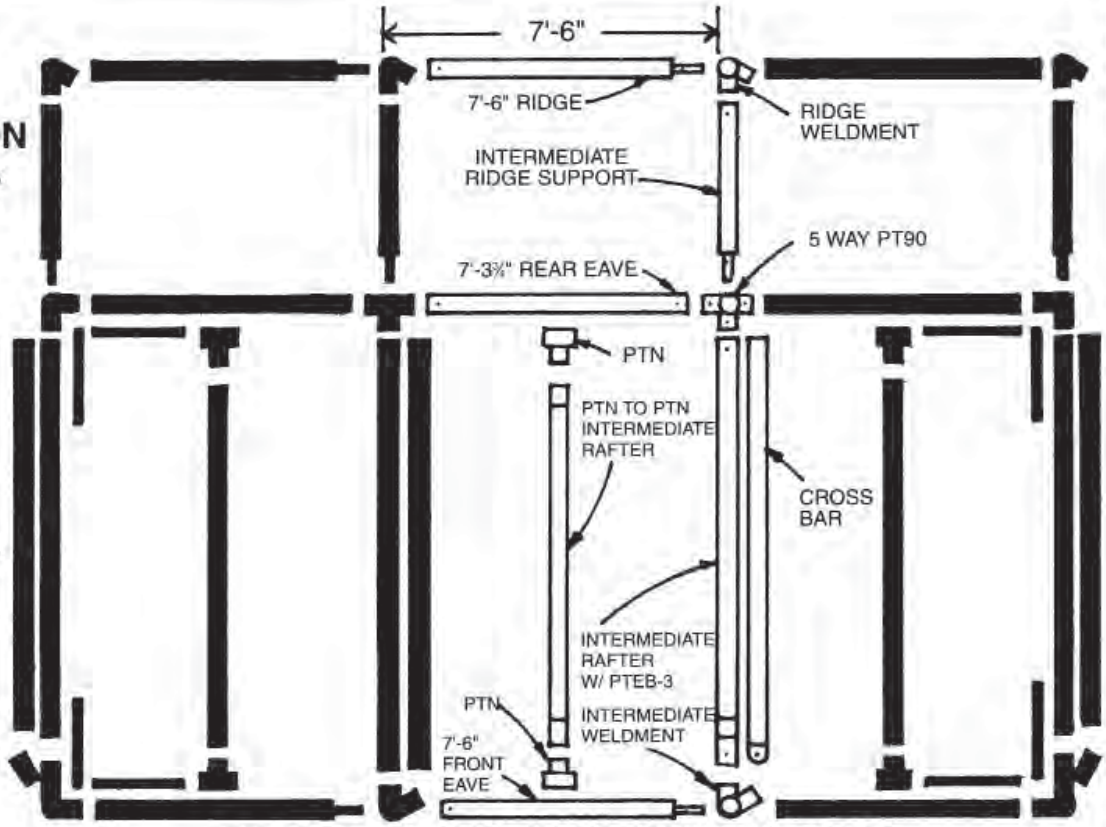


STAKE & GUY WEB



NAILS

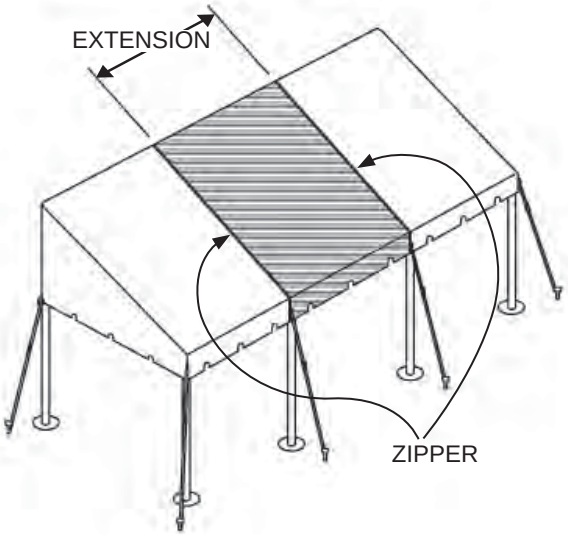
INTERMEDIATE ADJ. UPRIGHTS



7'-6" EXTENSION FRAME MEMBERS ARE NOTED.
FOR ADDITIONAL EXTENSIONS, REPEAT FRAME PATTERN.

STORAGE BAG W/ TOP

EXTENSION UNITS CAN ONLY BE ASSEMBLED WITH A PAIR OF ENDS OF THE SAME WIDTH.



PARTS LIST

CHECKED	REQUIRED	
	1	RIDGE WELDMENT
	2	PTN
	1	INTERMEDIATE WELDMENT
	1	5 WAY PT 90
	1	INTERMEDIATE RAFTER W/ PTEB-3
	1	INTERMEDIATE RAFTER PTN TO PTN
	1	CROSS BAR W/ PTE
	2	INTERMEDIATE UPRIGHTS
	1	• 7'-6" RIDGE W/ PIN
	1	• 7'-3¾" RIDGE W/ PIN
	1	• 7'-6" FRONT EAVE
	1	• RIDGE SUPPORT
	1	30" STEEL STAKE
	4	10" NAIL STAKE
	1	GUY WEB
	1	INSTALLATION SHEET
		TOTAL

CHECKED BY: _____

DATE: _____

This tent can be set up as a 15' deep by; 15', 22 1/2', 30', 37 1/2' and 45' wide.

LAYOUT & CHECK
Utilize parts list for a quick I.D. and a check list to ensure that you have all the parts.

IMPORTANT DOCUMENT

Certificate of Flame Resistance

ISSUED BY

ANCHOR INDUSTRIES INC.®

EVANSVILLE, INDIANA 47725

MANUFACTURERS OF THE FINISHED TENT PRODUCTS DESCRIBED HEREIN

Date of Shipment
10/21/2022

Sales Order #
SO-710922

This is to certify that the materials described are inherently flame retardant and were supplied to:

909484
REFLECTIONS PRODUCTIONS
ATTN: Thomas Mitchell
23750 SW 123 AVENUE
Homestead FL 33032
USA

FLAME RETARDANT

REGISTERED STATE OF CALIFORNIA STATE FIRE MARSHAL FLAME RETARDANT

Fabric meets requirements of

Registration Number: BURLAN : F-76001.01 & NFPA 701 Test Method 2 & CAN/ULC-S109

Certification is hereby made that:

The articles described on this Certificate have been treated with a flame-retardant approved chemical and the application of said chemical was done in conformance with California Fire Marshall Code.

Flame Retardant Process Used Will Not Be Removed By Washing And Is Effective For the Life Of The Fabric

Serial # 8064000C (2)

Description of item certified: FIESTA PAVILION 14' PROJ X 15 TOP BURLAN WHITE #1022260A W/STRAIGHT VALANCE

BURLAN

Name of Applicator of Flame Resistant Finish

Signed: **ANCHOR INDUSTRIES INC**

IMPORTANT DOCUMENT

Certificate of Flame Resistance

ISSUED BY

ANCHOR INDUSTRIES INC.®

EVANSVILLE, INDIANA 47725

MANUFACTURERS OF THE FINISHED TENT PRODUCTS DESCRIBED HEREIN

Date of Shipment
10/21/2022

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FLAME RETARDANT

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Certification is hereby made that:

The articles described on this Certificate have been treated with a flame-retardant approved chemical and the application of said chemical was done in conformance with California Fire Marshall Code.

Flame Retardant Process Used Will Not Be Removed By Washing And Is Effective For the Life Of The Fabric

Serial # 8064000C (4)

Description of item certified: FIESTA PAVILION 14' PROJ X 7-6 MIDDLE BURLAN WHITE #1022260A W/STRAIGHT VALANCE

BURLAN

Name of Applicator of Flame Resistant Finish

Signed: **ANCHOR INDUSTRIES INC**

IMPORTANT DOCUMENT

Certificate of Flame Resistance

ISSUED BY

ANCHOR INDUSTRIES INC.®

EVANSVILLE, INDIANA 47725

MANUFACTURERS OF THE FINISHED TENT PRODUCTS DESCRIBED HEREIN

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ATTN: Thomas Mitchell
23750 SW 123 AVENUE
Homestead FL 33032
USA

FLAME RETARDANT

REGISTERED STATE OF CALIFORNIA STATE FIRE MARSHAL FLAME RETARDANT

Fabric meets requirements of

Registration Number: SNYDER MFG : F-14001.01 & NFPA 701 Test Method 2 & ASTM E84 CLA

Certification is hereby made that:

The articles described on this Certificate have been treated with a flame-retardant approved chemical and the application of said chemical was done in conformance with California Fire Marshall Code.

Flame Retardant Process Used Will Not Be Removed By Washing And Is Effective For the Life Of The Fabric

Serial # 8020560C (2)

Description of item certified: Tent Wall 9-10X14-0,Left Att:Hem_Grom,Right Att:Hem_Grom, Fabric:1023970A VI White Blkt 61in 16oz Snyder

SNYDER MFG

Name of Applicator of Flame Resistant Finish

Signed: **ANCHOR INDUSTRIES INC**

IMPORTANT DOCUMENT

Certificate of Flame Resistance

ISSUED BY

ANCHOR INDUSTRIES INC.®

EVANSVILLE, INDIANA 47725

MANUFACTURERS OF THE FINISHED TENT PRODUCTS DESCRIBED HEREIN

Date of Shipment
10/21/2022

Sales Order #
SO-710922

This is to certify that the materials described are inherently flame retardant and were supplied to:

909484
REFLECTIONS PRODUCTIONS
ATTN: Thomas Mitchell
23750 SW 123 AVENUE
Homestead FL 33032
USA

FLAME RETARDANT

REGISTERED STATE OF CALIFORNIA STATE FIRE MARSHAL FLAME RETARDANT

Fabric meets requirements of

Registration Number: SNYDER MFG : F-14001.01 & NFPA 701 Test Method 2 & ASTM E84 CLA

Certification is hereby made that:

The articles described on this Certificate have been treated with a flame-retardant approved chemical and the application of said chemical was done in conformance with California Fire Marshall Code.

Flame Retardant Process Used Will Not Be Removed By Washing And Is Effective For the Life Of The Fabric

Serial # 8020560C (4)

Description of item certified: Tent Wall 9-10X15-0,Left Att:Hem_Grom,Right Att:Hem_Grom, Fabric:1023970A VI White Blkt 61in 16oz Snyder

SNYDER MFG

Name of Applicator of Flame Resistant Finish

Signed: **ANCHOR INDUSTRIES INC**