SILVERSCREEN ENGINEERS

SSE Project No.: 26-0313
Revision: 1
May 1, 2026

John Smartz
Electric Pony Studios
439 E 58th St,
Los Angeles, CA 90011

Subject: Roof Evaluation for Pony 2

References: 1) Site Visit with E.Helvajian; February 26, 2026
2) Pipe addition photos sent to SSE; April 2026

Silverscreen Engineers has been asked by Electric Pony Studios to perform a site visit and structural analysis of the Pony 2 roof located at 439 E 58th St. in Los Angeles, CA for the determination of allowable rigging loads. Please allow this report to serve as a summary of our site visit, analysis, and recommendations. Note: this revision addresses the addition of four pipe spans along the long direction of the room for supporting rigging loads. The rigging load rating has been updated to address this adjustment. No other changes are taken into account at this point in time.

**System Description:**

The existing roof measuring ~124'-0" x ~38'-0" is of lumber beam and column construction with support frames spaced ~15'-6" on center. Major 4x10 beams span between the support frames spaced 8-9' on center. **Figures 1 and 2** show the roof in question.



**Figure 1: Roof from Ground**



**Figure 2: Roof Support Frame from Height**

See Figure 3 below for the four pipe spans added to the roof frame. The pipes connect to the secondary 4x10 framing members as shown.

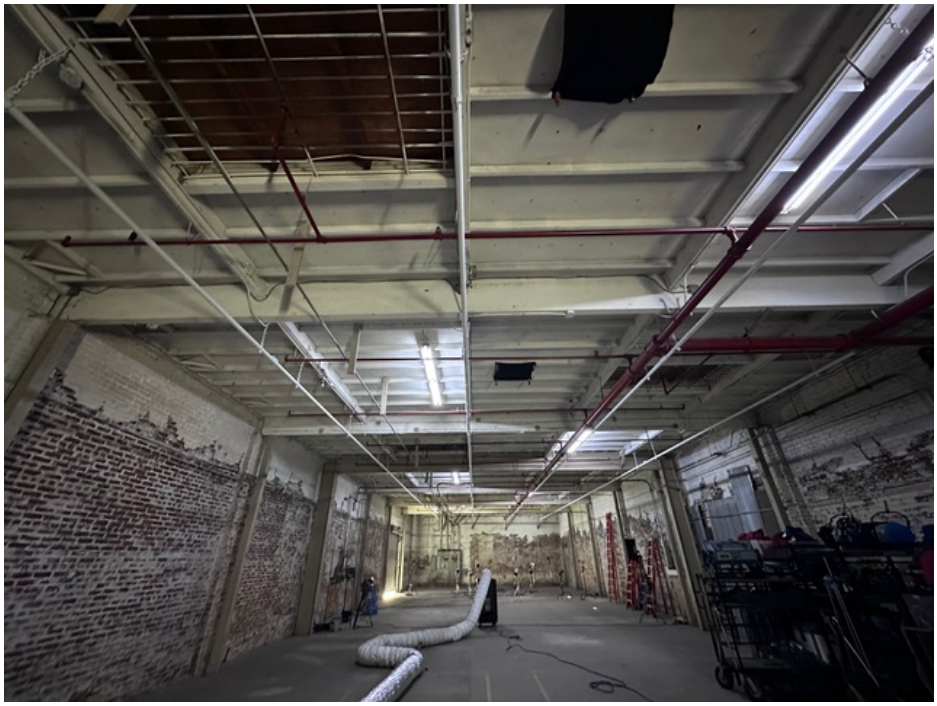


**Figure 3: Pipe Additions to Pony 2**

## Roof Analysis:

The roof was modeled into RISA 3D, a commercially available structural analysis application. Applicable dead loads and live loads are added to the model to account for the weight of the roof joists and miscellaneous ducting and fire sprinkler lines above. **Figure 4** shows the RISA 3D model. **Figure 5** shows the maximum bending stress underload.

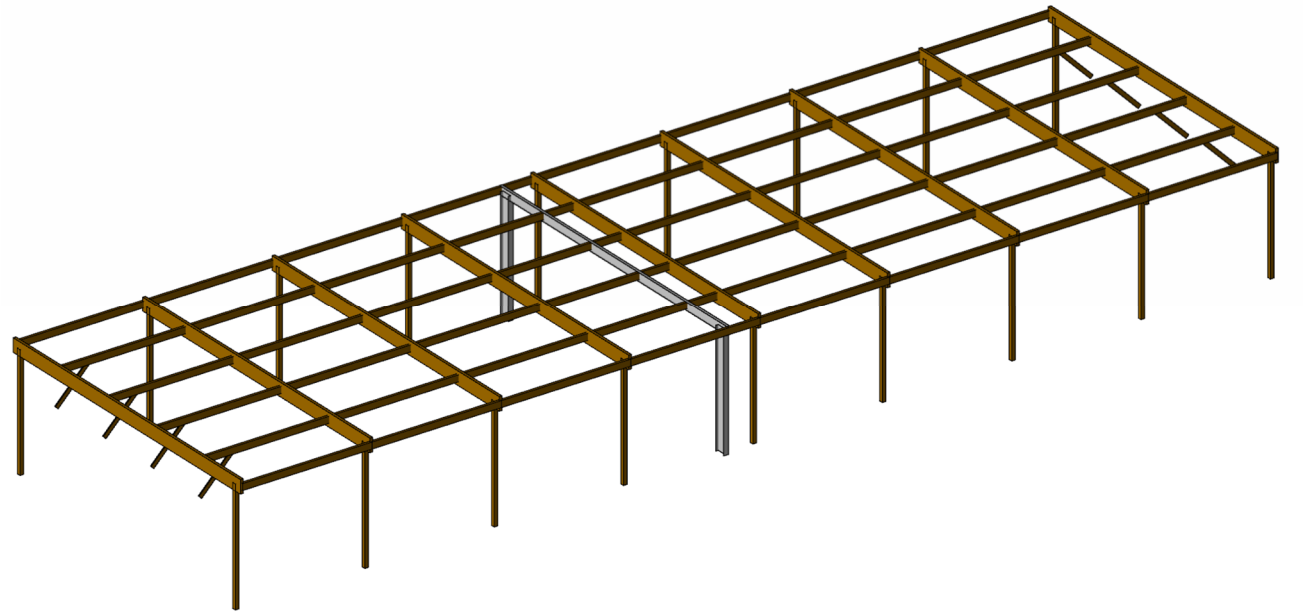


**Figure 4: RISA 3D Model of Roof Diaphragm**

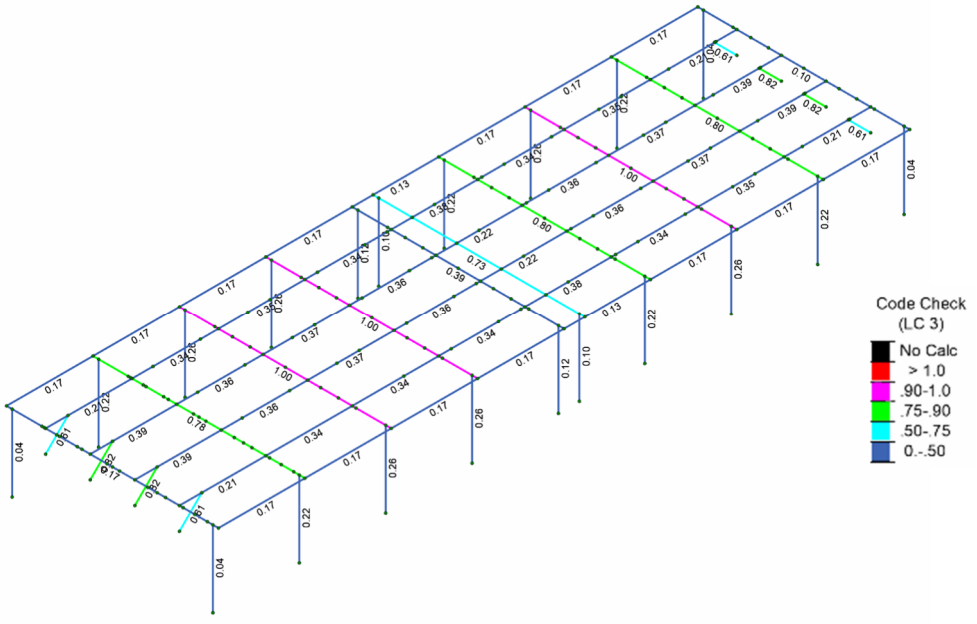



**Figure 5: Maximum Bending Stress under load (99.7%)**

The supported pipes were also evaluated to confirm sufficient capacity for the imposed loads.

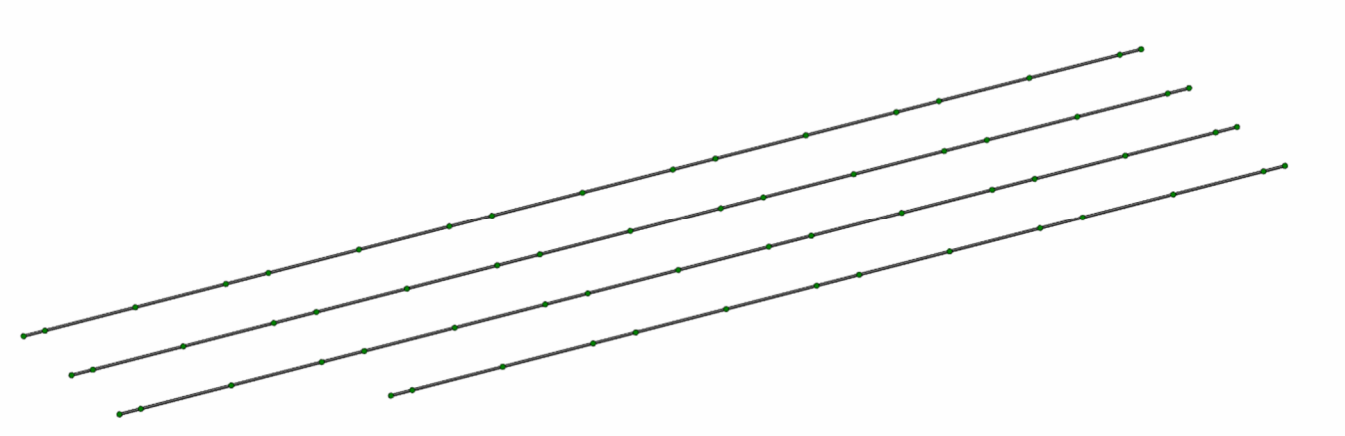


**Figure 6: RISA 3D Model of Added Pipes**

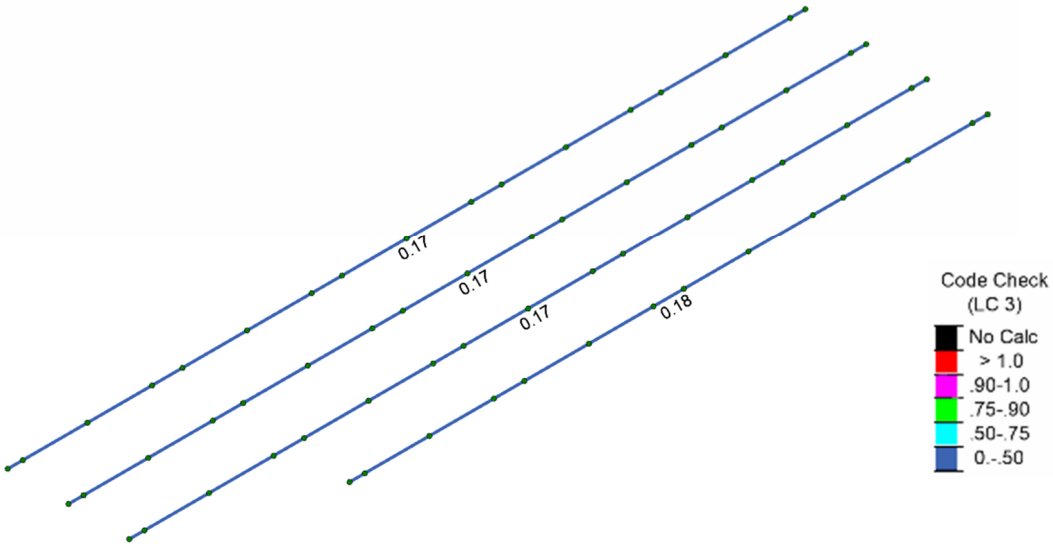



**Figure 7: Maximum Bending Stress under load (18%)**

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**Results:**
Our subsequent analysis has found that the existing roof is able to support the added pipes shown in the approval drawings as well as a 15plf max live load applied to the pipes. In addition to above, please note the following:

1. Rigging loads are assumed to be static. Dynamic loads will need further review.
2. All loads are assumed to act as dead hangs (no bridles). If bridled loads are desired, please confirm with the Engineer of Record prior to installation.
3. The analysis assumes that rigging on the roof framing members utilizes a large portion of the roof's code required live load capacity. Access to the roof should be locked out so as to remove the possibility of accessing the roof while rigging is installed. If large rooftop loads (loads excess of 500 lbs) are expected, contact EOR for follow-up information.
4. Roof drainage must be routinely checked to ensure blockages are not present. **The roof must be kept clear of ponding water at all times.**
5. SSE's scope did not include an inspection of the entire roof structure's current condition due to difficulties accessing all areas in question. If damage to the existing structure is observed during installation, contact the Engineer of Record immediately for follow up.
6. Any plans to use chain motors must be approved by Engineer of Record

Thank you for your consideration in this matter. Should questions arise, please contact the undersigned.

Sincerely,

Matthew McGee



Professional Engineer
CA Lic. No.: C80739

*Enclosures*




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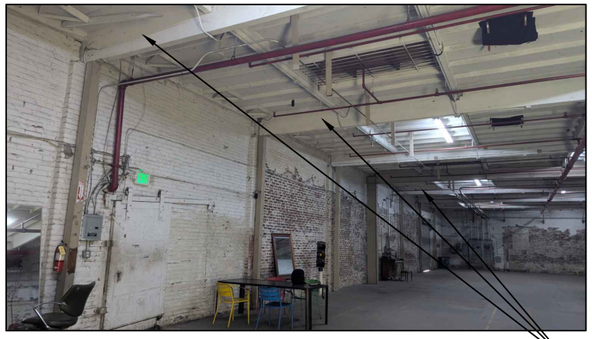
## APPENDIX A: STAMPED DRAWINGS

# PONY 2

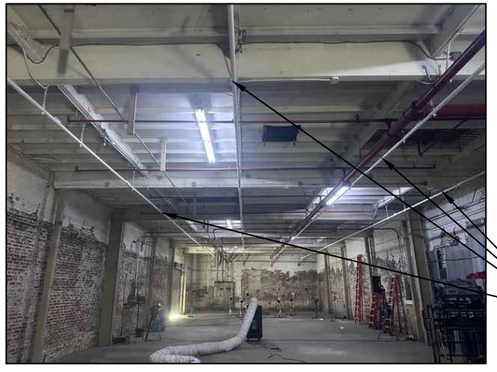
LENGTH = 124'-0"
WIDTH = 38'-0"
HEIGHT = 13'-8"

**GENERAL NOTES:**

1. LOADING SCENARIOS OTHER THAN THOSE SHOWN ON SHEET 2, MUST BE VERIFIED BY A CA LICENSED ENGINEER.
2. RIGGING FOR ANY SINGLE CONCENTRATED LOAD EXCEEDING 800 LBS, MUST BE VERIFIED BY A CA LICENSED ENGINEER.
3. RIGGING FOR A TOTAL LIVE LOAD EXCEEDING 3,000 LBS, MUST BE VERIFIED BY A CA LICENSED ENGINEER.
4. ONLY STATIC LOADING HAS BEEN CONSIDERED. ANY OTHER DYNAMIC OR SHOCK LOADS ARE TO BE REVIEWED BY FACILITY OPERATIONS AND A CA LICENSED ENGINEER.
5. ADDITIONAL LIVE LOADS ON THE ROOF ARE NOT ALLOWED WHILE FULL RIGGING IS IN PLACE. IF ROOFTOP WORK NEEDS TO BE PERFORMED WITH RIGGING IN PLACE, A REVIEW MUST BE PREPARED BY A CA LICENSED ENGINEER.
6. THE REVIEW WAS PERFORMED IN ACCORDANCE WITH THE 2025 CALIFORNIA BUILDING CODE.
7. ROOF DRAINAGE MUST BE ROUTINELY CHECKED TO ENSURE BLOCKAGES ARE NOT PRESENT. THE ROOF MUST ALWAYS BE KEPT CLEAR OF PONDING WATER.
8. SSE'S SCOPE DID NOT INCLUDE AN INSPECTION OF THE ENTIRE STRUCTURE'S CURRENT CONDITION DUE TO DIFFICULTIES ACCESSING ALL AREAS IN QUESTION. ALL OBSERVATIONS WERE MADE VISUALLY FROM THE GROUND OR FROM A LADDER AND ASSUMES NO DAMAGE TO THE ROOF OR ITS SUPPORT SYSTEMS. IF DAMAGE TO THE EXISTING STRUCTURE IS OBSERVED, CONTACT THE ENGINEER OF RECORD IMMEDIATELY FOR FOLLOW-UP.
9. THE INSPECTION WAS COMPLETED ON FEBRUARY 26, 2026. DUE TO THE REVOLVING NATURE OF THE PRODUCTION INDUSTRY, WEAR-AND-TEAR AND TYPICAL ON SITE MODIFICATIONS OF EXISTING STRUCTURE ARE COMMON. WE RECOMMEND THAT A COMPETENT PERSON INSPECT THE STRUCTURE FOR SAFETY CONCERNS AND STRUCTURAL MODIFICATION AFTER EACH PRODUCTION LOAD OUT.
10. THE RIGGING LOAD UTILIZES A LARGE PORTION OF THE ROOF LIVE LOAD. ACCESS TO THE ROOF SHOULD BE LOCKED OUT SO AS TO REMOVE THE POSSIBILITY OF ACCESSING THE ROOF WHILE RIGGING IS INSTALLED. IF LARGE ROOFTOP LOADS (LOADS EXCESS OF 500 LBS) ARE EXPECTED, CONTACT EOR FOR FOLLOW-UP INFORMATION.
11. THE FOLLOWING LOADING CONDITIONS ARE OUTSIDE THE SCOPE OF THIS DOCUMENT AND MUST BE VERIFIED BY A CA LICENSED PROFESSIONAL ENGINEER PRIOR TO INSTALLATION:
    - 11.1. COMBINATIONS OF ROOF FRAME RIGGING LOADS AND PIPE GRID RIGGING LOADS WHICH CONVERGE ON A COMMON LOAD PATH HAVE AN ADDITIVE EFFECT WHICH COULD RESULT IN OVERSTRESSING THE EXISTING ROOF STRUCTURE. SSE RECOMMENDS THAT QUALIFIED PROFESSIONALS OR THE ENGINEER OF RECORD EVALUATE RIGGING SCENARIOS THAT UTILIZE A COMBINATION OF ROOF AND PIPE GRID RIGGING LOADS.
    - 11.2. SAFETY METHODS AND RIGGING METHODOLOGY. SSE RECOMMENDS THAT ALL RIGGING COMPONENTS ARE RATED TO SUPPORT THEIR INTENDED LOADS WITH INDUSTRY COMPLIANT FACTORS OF SAFETY.



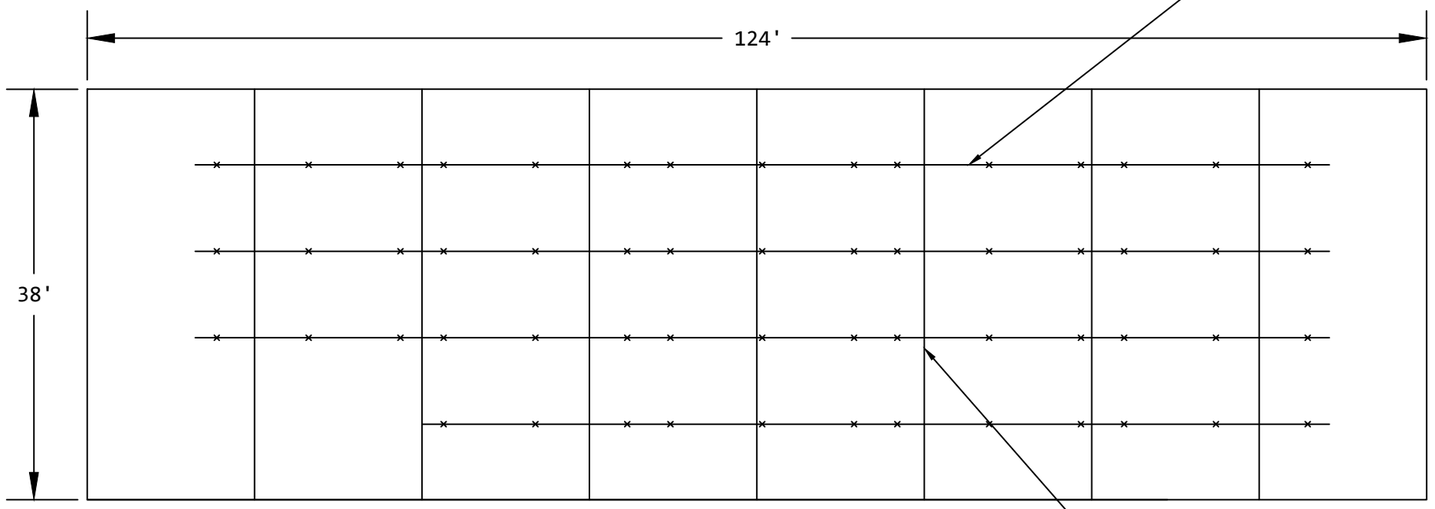




ADDED PIPES

ROOF FRAME

PIPE GRID




ROOF FRAME @ 15'-6" O.C.
TYP. 7 PLCS.

**PONY 2 FULL FLOOR PLAN**

**SCALE: NTS**

N

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STATE OF CALIFORNIA

| REV | DESCRIPTION | BY | CK | DATE |
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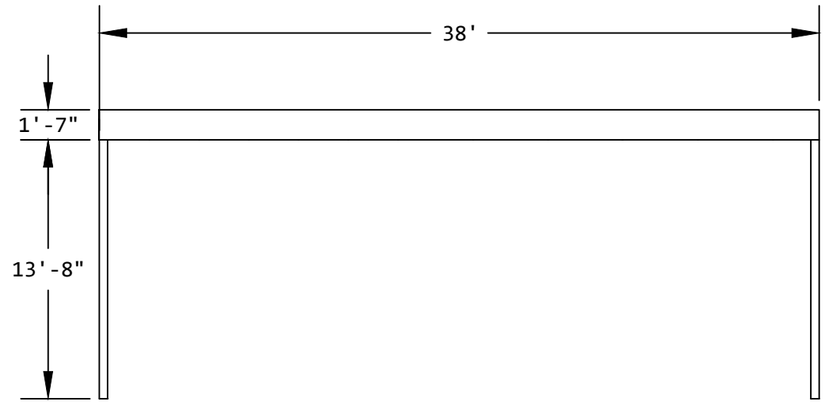
TITLE
**ELECTRIC PONY STUDIOS**
**PONY 2 ALLOWABLE APPLIED RIGGING LOADS**

PROJECT
**ELECTRIC PONY STUDIOS**
**ALLOWABLE ROOF AND PIPE GRID LOADING**

CLIENT INFO
**ELECTRIC PONY STUDIOS**
**439 E 58TH ST.,**
**LOS ANGELES, CA 90011**

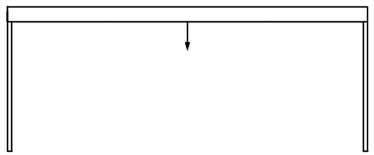
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# UNREINFORCED ALLOWABLE ROOF FRAME LOADS

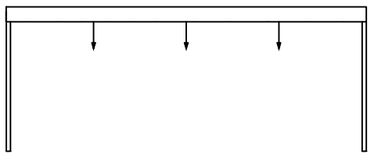



PONY 2 ROOF FRAME TYP.

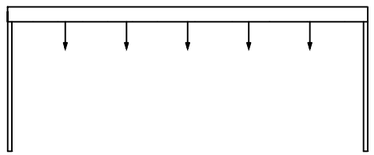
| ROOF FRAME LOADING CASES | ALLOWABLE LOADING |
|---|---|
| 1) ALLOWABLE MID POINT LOAD | 600 LBS. |
| 2) ALLOWABLE QUARTER-POINT LOADS | 300 LBS. |
| 3) ALLOWABLE 5-POINT LOADS | 200 LBS. |
| 4) ALLOWABLE DISTRIBUTED LOAD | 30 PLF |



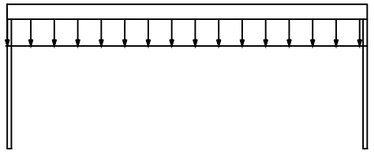
CASE 1- MID POINT LOAD



CASE 2- QUARTER-POINT LOADS



CASE 3 - SIXTH POINT LOADS



CASE 4 - DISTRIBUTED LOADS

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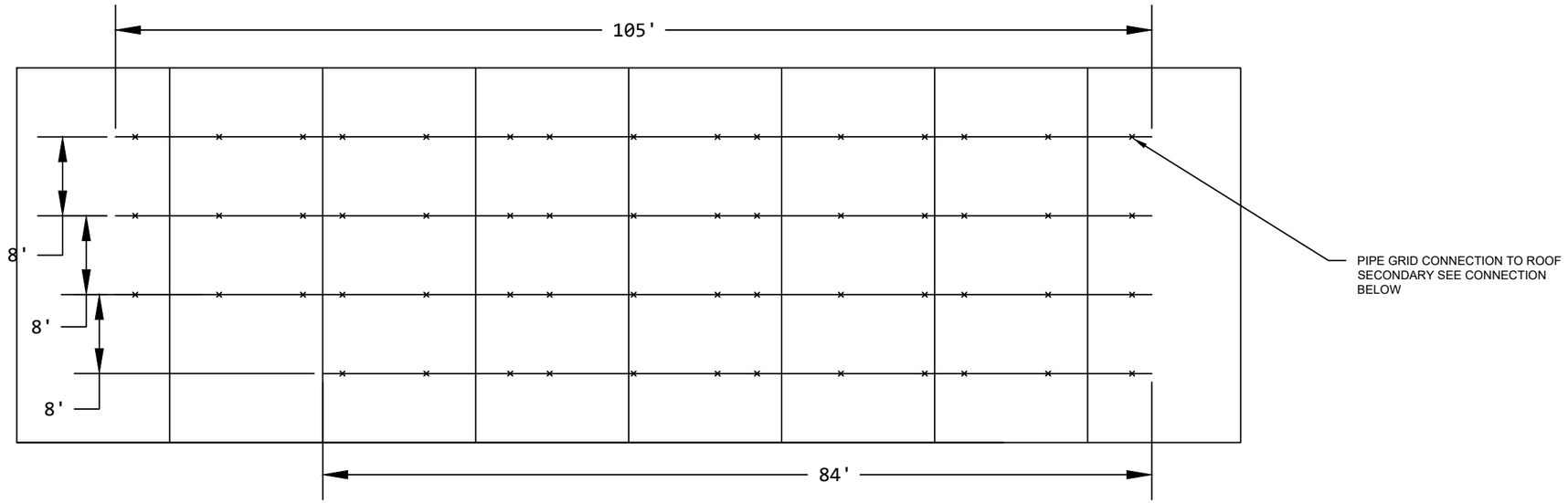
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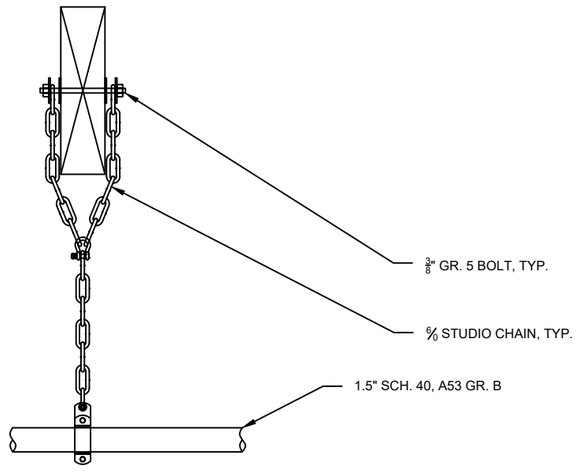
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# ALLOWABLE PIPE GRID LOADS




PONY 2 ROOF PLAN VIEW

| PIPE GRID LOADING CASES | ALLOWABLE LOADING |
|---|---|
| 1) ALLOWABLE SINGLE POINT LOAD | 100 LBS. |
| 2) ALLOWABLE DISTRIBUTED LOAD | 15 PLF |




PIPE CONNECTION TO ROOF SECONDARY

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