

Guidelines for a Layout Requests from Pipp Mobile Storage Systems, Inc.

Pipp Mobile will design a layout for your storage space at no cost.

Below is a list of information that is helpful in providing a complete and accurate layout of the space.

1. Critical wall dimensions
2. Ceiling height / Light height
3. Doors
4. Egress paths
5. Electrical Panels
6. Columns
7. Any other known obstructions in the storage area
8. Floor variations (type of flooring)
9. Product being stored (files/ apparel/ shoes)
10. Desired number of shelf openings (Pipp can provide a recommendation)
11. Notate any staging or receiving areas/ manager's desks etc.

Guidelines for Architects and Designers

When designing a storage room it is very important to understand the product being stored and how it is being stored

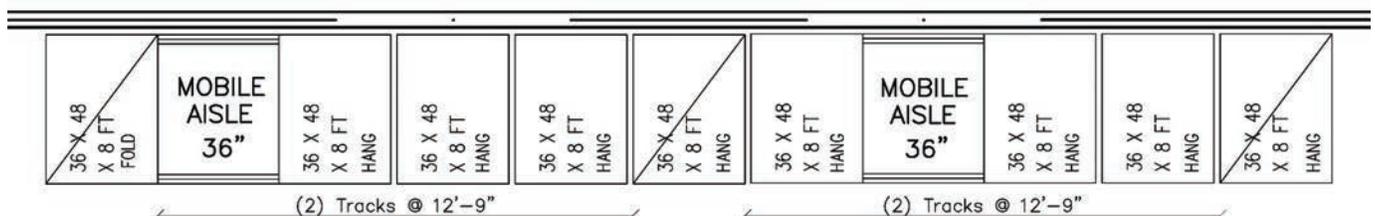
1. Flow of the Room

- 1.1. First, consider the flow of the room. You must understand all of the fixtures in the room (Ex. electrical panels, over head emergency lights or HVAC).

2. Design of the Storage Room

- 2.1. **Stationary Units** - Use as many stationary units as possible to keep the costs lower. Typically, a stationary unit is placed at each end of the mobile run. (Stationary units are generally called out with a diagonal line running through them)
- 2.2. **Number of Carriages** - The number of carriages in a mobile system depends on several factors
 - 2.2.1. The size of the room you are working in
 - 2.2.2. The length of the carriages
With longer carriages and specific weight requirements, it is best to keep the number of units to a maximum of 5 units per mobile run when units are over 48" in length Mechanical -Assist carriages should be considered for carriages over 108' in length)

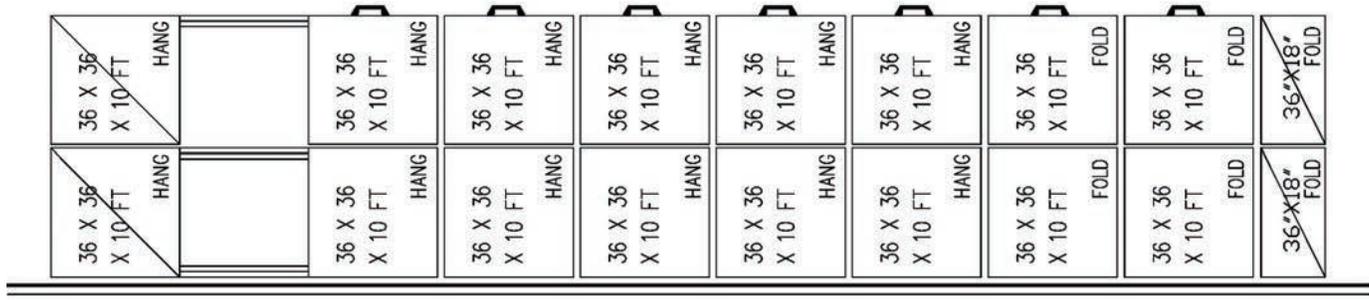
This layout shows the ideal setup for number of carriages per run:



Guidelines for a Layout Requests from Pipp Mobile Storage Systems, Inc. (cont.)

2.2.2. The length of the carriages (cont.)

This layout shows too many mobile units in one run with only one aisle:



2.3. Carriage Placement

- 2.3.1. Carriage Blocks need to be placed approximately 2" off the wall.
- 2.3.2. Blocks need to be arranged creating a 2" space between each carriage to allow for the bumpers. 2" spacing should also be allotted in between the stationary and mobile units to allow for the track end stop.
- 2.3.3. If shelving is back to back on a carriage, include a 1" growth between units on the carriage.
- 2.3.4. When using carriages with multiple sections, allow a growth factor for the angle and "T" Post upright configuration. Use a 1" growth between units on the carriage (this accounts for the growth from the "T" Posts).
- 2.3.5. If the account requires handles on the units, draw them on the layout as well. When systems are running parallel with an aisle between them, verify at least 36" to 42" (depending on municipality) from handle to handle.

3. Layout Details

- 3.1. Label the drawings with as much information as possible (Location for seismic purposes)
- 3.2. Denote shelving units with fold, hang, shoes etc. or by providing a key reference (Ex. Dotted lines drawn through the length of the unit denote hanging)