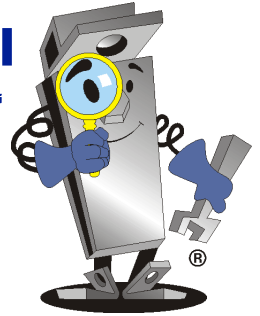


# Project FOCUS

**UNISTRUT HAWAII**

a division of **FCP** Roadway Solutions



## Mezzanine Solution for an Industrial Warehouse



### Design Challenge:

A local medical equipment supplier, with over 40 years of experience in acute, post-acute, and homecare medical devices, faced a significant challenge as their business expanded. Their original location could no longer accommodate the growing demand for storage, prompting them to acquire a second warehouse. However, traditional rack shelving systems proved insufficient, limiting storage capacity and causing logistical inefficiencies. The client sought a cost-effective solution to enhance storage capacity while ensuring operational efficiency.

### Design Criteria:

The customer provided specific criteria for the project, which included creating a storage system that allowed for large equipment to be placed on the floor that minimized columns or pillars. This was essential to accommodate electric beds and other large equipment that needed to be moved daily. Additionally, the design required wide aisles to ensure effortless movement of large equipment and forklifts. The project also needed to include a second-floor mezzanine with a gate for loading inventory from a forklift below. Finally, it was crucial to make the best use of the existing warehouse to maintain the Honolulu base location for delivery operations.

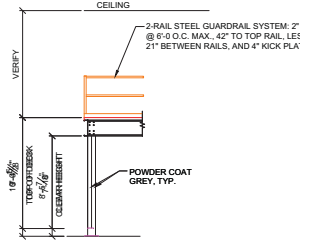
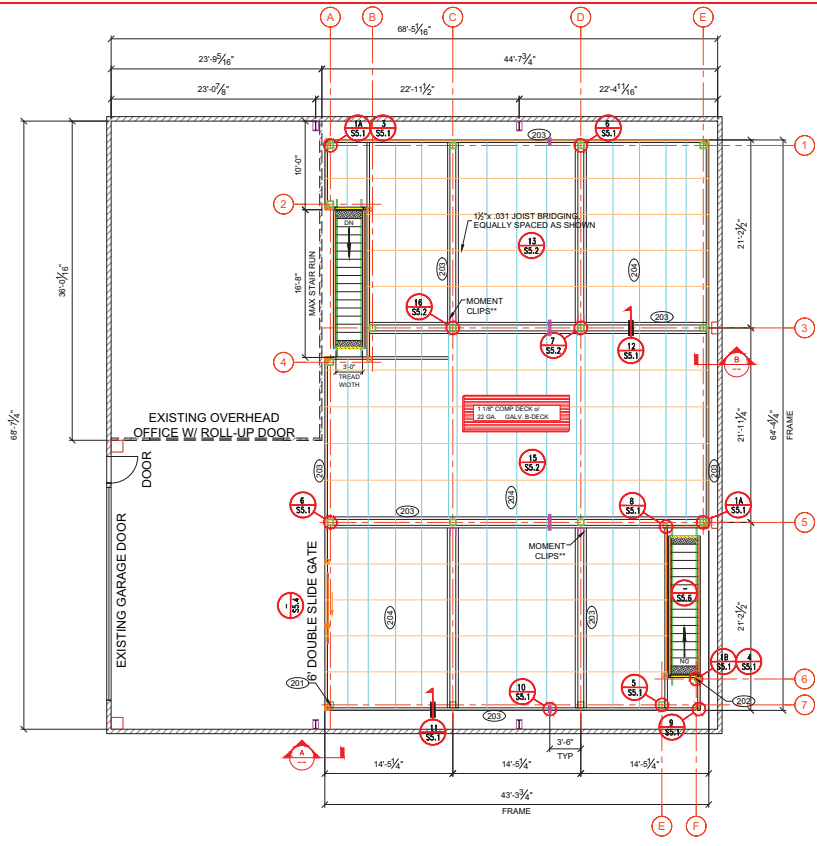


### Unistrut Hawaii Solution:

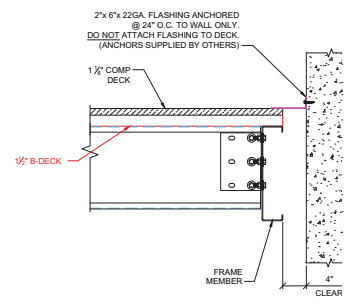
The **FCP Free Space Mezzanine**, featuring the exclusive **FCP ConnectRite** cold-formed steel connection system, provided the perfect solution. This innovative, moment-resistant, bi-directional mezzanine system maximizes load capacity and open floor space while adhering to stringent seismic requirements. The strategic column spacing optimizes the use of space beneath the mezzanine and offers substantial load capacity for storage above.

By relocating their shelved stock to the new mezzanine, the client was able to store their rental bed inventory on the warehouse floor, significantly increasing their storage capacity. This solution provided additional square footage without the need for more real estate, avoiding added costs and operational disruptions associated with moving to larger facilities.

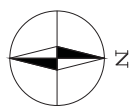




**VIEW A**  
SCALE: 1/2"=1'-0"



**FLASHING TO WALL DETAIL B**  
SCALE: 1/2"=1'-0"



**DECK FRAMING PLAN**

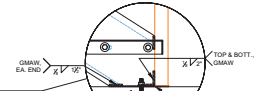
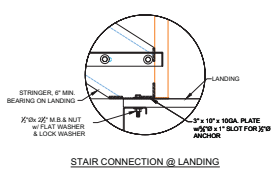
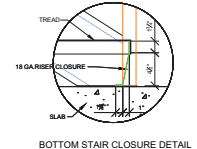
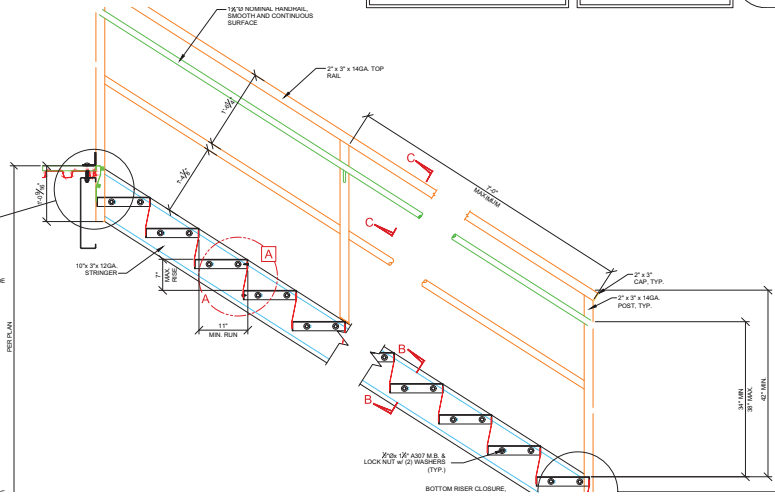
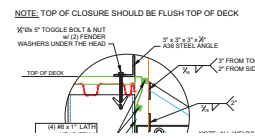
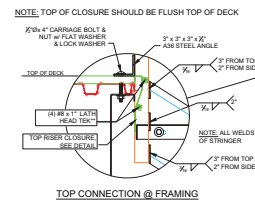
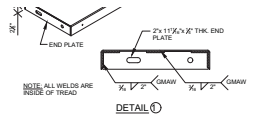
- 201 HSS 8" x 8" x 1/4" COL. TYP.
- 202 HSS 4" x 4" x 13 GA. COL.
- 203 16" x 3 1/2" 10 GA. TYP.
- 204 16" x 3 1/2" 12 GA. JOIST

FINISH SCHEDULE	
COMPONENT:	FINISH:
Frame:	Galvanized
Columns:	Powder Coat Grey
Stringers:	Galvanized
Trails:	Galvanized
Handrail:	Galvanized

- PLEASE VERIFY THE FOLLOWING:  
(Check boxes to verify)
- Existing (E).
  - Location of walls and/or other obstructions (E).
  - Roll-up door cammeters, Electrical panels
  - Dimensions:
    - Overall Dimensions
    - Top of Deck Height
    - Clear Height
    - Column Locations
    - Stair Location(s)
    - Guardrail Location
    - Gates(s)
- \*PLEASE NOTE: Verify all reference dimensions to (E) obstructions.

AS NOTED: \_\_\_\_\_ DATE: \_\_\_\_\_  
NO CHANGES: \_\_\_\_\_ DATE: \_\_\_\_\_  
The signature above indicates that all dimensions, column locations & finishes are correct. Should any change be required after the date above, additional costs may be incurred and written change order required.

**NOTE: DRAWING FOR ENGINEERING (NOT FOR CONSTRUCTION.)**



**UNISTRUT HAWAII**

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Talk to a Unistrut Hawaii representative today for a solution to your design challenge.  
**FCP Mezzanines are installed by Unistrut Hawaii.**



**MEZZANINES**  
Creative Steel Solutions

May 17, 2024