

Dogfight

By

Christopher & Timothy

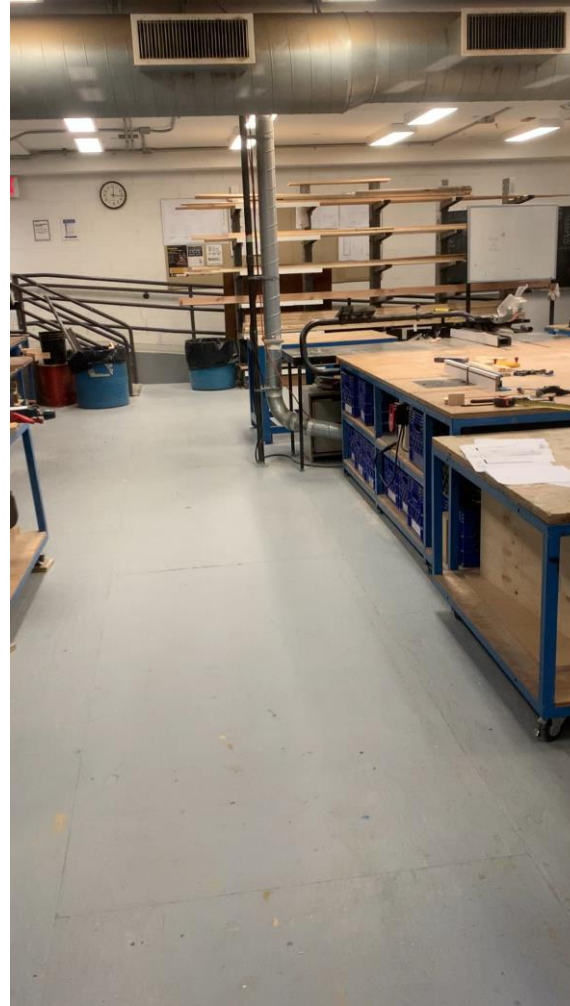
Objectives:

Our team was commissioned to build two scenic parts for Pace University's year-end show, the rest of the scenery is being built and painted by Showman Fabricators. Our task included building a bed that would roll directly from upstage to downstage, along with a rolling counter which would be rolled onstage from stage right. Both scenic will be wheeled into a fixed position for multiple shows, and have the ability to be locked in place. The scenic parts should also be capable of holding a 160 lbs load. We will be installing the scenery ourselves with a crew of four. Tech rehearsal will be on Saturday, July 1, 2023.

Solutions:

For the task of building the bed, it was decided that build it like a platform and dress it with other set dressing elements such as bedding and pillows. Due to it being a platform, it would be strong enough to withstand the weight of 160 lbs. A requirement was that the casters being used to move the bed, should not be visible. We chose to use a wagon brake at the back of the bed with a caster attached. When the bed is wheeled into place, the caster will lift off the ground when the brake is pulled. The rolling cart will be built using 5/4" lumber. Each leg will be built like a flat and the for the tabletop, a 5" platform would used. 1/4" MDF would be used on both sides of each leg as a façade; this would give the rolling cart a seamless appearance. The entire cart will be painted blue.

Revolving Casters Test Results



Strength Test Results:



Collin our test subject!!

Calendar

Thursday, June 1, 2023

- Travel to Pace University to do a walk-through and measurements of the venue.

Friday, June 2, 2023

- Decide which scenery parts can be built in-house and what can be outsourced and built by Showman Fabricators.
- Begin drawing technical drawings.
- Draw up a list of scenery components and materials needed to make the bed and rolling counter in-house.

Monday, June 5, 2023

- Call Showman Fabrications to set up a bid request to build and paint 10 flats. Send over technical drawings.
- Order necessary lumber materials and hardware requirements to build a bed and rolling counter build.

Tuesday, June 6, 2023

- Research and order possible casters and wagon breaks for scenery.

Monday, June 12, 2023

- Have preliminary drawings available for the crew's arrival.
- Full crew arrive at 2:30 pm for lumber and materials delivery.
- Divide the crew into two groups
- One group strips lumber and the other group starts assembling and building.

Tuesday, June 13, 2023

- Full crew call 2:30 pm.
- Crew continues building scenery elements.

Monday, June 19, 2023

- Full crew call at 2:30 pm.
- Complete building scenery and begin testing casters and wagon brake components.

• **Tuesday, June 20, 2023**

- Full crew call at 2:30 pm for the delivery of scenic flats from Showman Fabrications.
- Assemble the entire set in the shop to ensure all the scenic flats fit.
- Paint crew call at 2:30 pm to paint scenery as needed.

Monday, June 26, 2023

- Full crew call at 2:30 pm to strike scenery, and prep for pick up and load-in at Pace University.

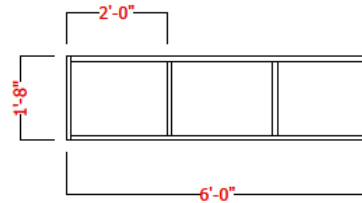
Tuesday, June 27, 2023

- Half crew call at 2:30 pm for truck delivery at Pace University.
- Load-in to the Theatre and start scenery install.

Sunday, July 1, 2023

- Tech Rehearsal at 1:00 pm.

Technical Drawings



- FRAMED OUT OF $\frac{5}{8}$ " MATERIAL CUT TO 4" TALL
- LID MADE OF $\frac{3}{4}$ " AC PLYWOOD AND $\frac{1}{4}$ " MDF FOR PAINT



COUNTER 1

$$\frac{1}{2}'' = 1'-0''$$

DOG FIGHT
ENTERTAINMENT
TECHNOLOGY

PROBLEM 4

ENT 4410

COUNTER 1

Trimmed Counter

Trimmed Counter

Trim C

1/2" = 1'-0"

C1

Technical Drawings

DOG FIGHT
ENTERTAINMENT
TECHNOLOGY

PROBLEM 4

ENT 4.4.10

COUNTER 2A&B

*** Primer Coating

*** Primer Coating

*** Wax

*** Sealant

*** 1/2" = 1'0"

C2

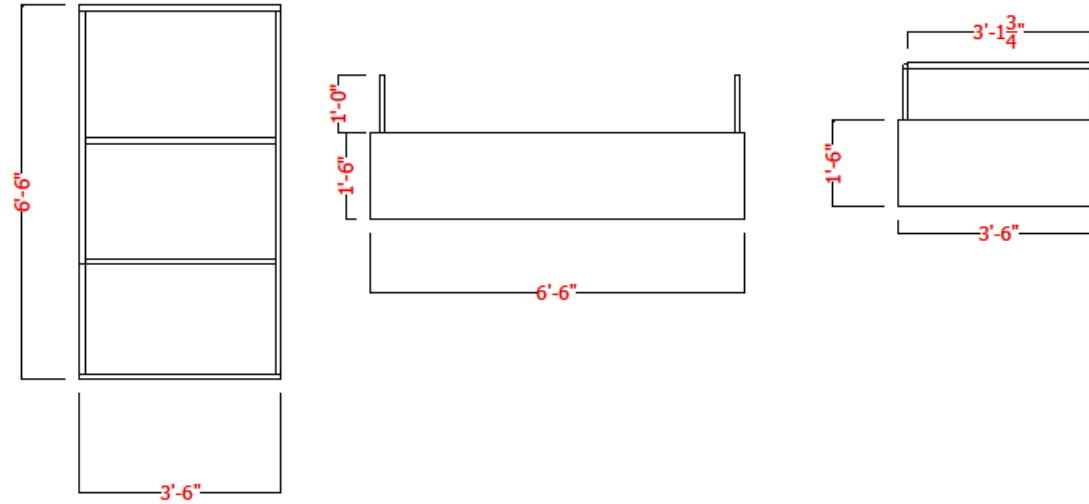
3'-6"
1'-10"
1'-6"

- FRAMED OUT OF $\frac{5}{4}$ " MATERIAL CUT TO 4" TALL
- LID MADE OF $\frac{3}{4}$ " AC PLYWOOD AND $\frac{1}{4}$ " MDF FOR PAINT
- BUILD 2

2 COUNTER 2A&B

1/2" = 1'-0"

Technical Drawings



- FRAMED OUT OF 2X4 MATERIAL
- LID MADE OF $\frac{3}{4}$ " AC PLYWOOD AND $\frac{1}{4}$ " MDF FOR PAINT

3

BED PLATFORM

$$\frac{1}{2}" = 1'-0"$$

DOG FIGHT
ENTERTAINMENT
TECHNOLOGY

PROBLEM 4

ENT 4410

FLATS

Timber Cores

Timber Cores

Tim C

3/8/25

1/2" = 1'0"

Bed

Technical Drawings

The drawing shows three views of a counter assembly. The top view is a rectangle with a width of 6'-0" and a depth of 5'-2". The side view shows a depth of 1'-8" and a width of 6'-0". The front view shows a height of 1'-5 3/4" and a width of 6".

- FRAMED OUT OF $\frac{5}{4}$ MATERIAL
- ATTACH TO CI NEXT TO RAILS ON BOTH SIDES

COUNTER ASSEMBLY

$\frac{1}{2}'' = 1'-0''$

DOG FIGHT
ENTERTAINMENT
TECHNOLOGY

PROBLEM 4

ENT 4410

COUNTER I

1/2" = 1'-0"

C1

Problem 4 Outcomes:

In terms of learning outcomes, we were introduced to a new Scenery Fabrications company called Showman Fabricators. Showman is a large fabrication company with a vast portfolio ranging from theatre, retail, TV, and amusement parks. We learned about how projects can be outsourced to external companies who would then build the bulk of the scenery. This is due to their size and availability of specialty equipment. Additionally, we learned about how to tackle a problem as a team from different perspectives and testing solutions. Managing our time appropriately was a key factor. Although, we had more time and less scenery to build for problem 4, making sure all the moving parts came together was a challenge.