INDIANA UNIVERSITY THEATRE

Production: PIPELINE By: RACHEL SHEARON Date: 01/21/24

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | WEEKLY OBJECTIVE |
|---|---|---|---|---|---|---|---|
| 21 JAN | 22 | 23 | 24 | 25 | 26 | 27 | |
| | TD<br>CNC Foam | | | | | | Adjust Seating Units |
| | Team A<br>Build Walls | | | | | | Foam Carved<br>Walls Built |
| | | | Projections | | | | |

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | WEEKLY OBJECTIVE |
|---|---|---|---|---|---|---|---|
| 28 | 29 | 30 | 31 | 1 FEB | 2 | 3 | |
| | Team A<br>Attach Foam to Walls | | | | All<br>Install Walls<br>Install Portal | | Everything in Space |
| | Team B<br>Cut Steel | Team B<br>Weld Portal | Team B<br>Lid Portal | | | | |
| | | | Paint Floor | | | | |

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | WEEKLY OBJECTIVE |
|---|---|---|---|---|---|---|---|
| 4 | 5 | 6 | 7 HANG | 8 HANG | 9 HANG | 10 | |
| | Team A<br>Wall Trim/Other Details | | | | All<br>Adjust Masking | | Adjust Masking |
| | | | Help Paint Paint Walls | | VOX POP OPENS | | |

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | WEEKLY OBJECTIVE |
|---|---|---|---|---|---|---|---|
| 11 | 12 HANG<br>F.D.O.S. | 13 HANG | 14 | 15 FOCUS | 16 FOCUS | 17 | |
| | | | NOTES | | | | Notes |
| | HOH BUILD BEGINS | Help Paint Paint Walls | | | | | |

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | WEEKLY OBJECTIVE |
|---|---|---|---|---|---|---|---|
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| | | | NOTES | | | | Notes |
| | | | TECH | TECH | TECH | DRESS | |

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | WEEKLY OBJECTIVE |
|---|---|---|---|---|---|---|---|
| 25 | 26 | 27 | 28 | 29 | 1 MARCH | 2 | |
| | NOTES | | | HAPPY OPENING! | | | Notes |
| | DRESS | DRESS | DRESS | | | | |

THEATRE & DANCE

Indiana University

# BUDGET ESTIMATION

Production: *Pipeline*

Prepared By: Rachel Shearon

Date: 1/17/2024

## General Information

| | | |
|---|---|---|
| Show Name: | Pipeline | |
| Organization: | Indiana University | |
| Estimate by: | Rachel Shearon | |
| Material Budget: | $ 3,500.00 | |
| Contingency: | 20% | added to each unit |
| Shop Time: | 60 | $21.00 Hr.Rate |
| Time Contingency: | 1.54 | added to each unit |

| Construction Period | |
|---|---|
| Start Date: | 22-Jan-24 |
| Strike: | 18-Mar-24 |
| Tech: | 21-Feb-24 |
| Dress: | 24-Feb-24 |

## Shop Time Available

| Date | Labor | Hrs | Wks of Total |
|---|---|---|---|
| Monday | 3 | 4 | 12 |
| Tuesday | 3 | 4 | 12 |
| Wednesday | 3 | 4 | 12 |
| Thursday | 3 | 4 | 12 |
| Friday | 3 | 4 | 12 |
| | | Sub-Total: | 60 hrs |
| Wks of Build | 4.5 | Total: | 270 total hrs. |

Summary: Pipeline

| Page | Unit | Cost Estimate | Time Estimate |
|---|---|---|---|
| 1 | Walls (x2) | 1,017.29 | 105 |
| 2 | Inset LED Strip | 195.39 | 25 |
| 3 | | | 0 |
| 4 | | | 0 |
| 5 | | | 0 |
| 6 | | | 0 |
| 7 | | | 0 |
| 8 | | | 0 |
| 9 | | | 0 |
| 10 | | | 0 |
| 11 | | | 0 |
| 12 | | | 0 |
| 13 | | | 0 |
| 14 | | | 0 |
| 15 | | | 0 |
| 16 | | | 0 |
| 17 | | | 0 |
| 18 | | | 0 |
| 19 | | | 0 |
| 20 | | | 0 |
| | Sub-Total: | 1,212.68 | |
| | 20% Contigency: | 242.54 | |
| | Total: | 1,455.22 | 130 |
| | Budgeted Amount: | 3,500.00 | 270 |
| | (Surplus) Deficit: | (2,044.78) | (140) |

| | Production | Prepared by: |
|---|---|---|
| | ***Pipeline*** | Rachel Shearon |
| Indiana University | **ELEMENTS LIST** | Date: 22-Jan-24 |

| DRAFTING | BUILT | Check for Done | NOTES |
|---|---|---|---|
| | | **Walls (X2)** | |
| | | BUILD WALLS | |
| | | CUT FOAM | |
| | | ATTACH FOAM | |
| | | CREATE TRIM | |
| | | ATTACH TRIM | |
| | | PAINT | |
| | | INSTALL IN SPACE | |
| | | INSTALL REVEALS | |
| | | **Plexi Portal** | |
| | | CUT STEEL | |
| | | WELD | |
| | | ATTACH LID | |
| | | INSTALL IN SPACE | |
| | | **OTHER** | |
| | | SEATING CHANGEOVER | |
| | | ADJUST MASKING | |
| | | LEGS | |
| | | BORDER | |
| | | LENO FILLED SCRIM | |

| | Tuffak GP Poly | | | Allowable Load Based on Bending Stress | | Allowable Load Based on Shear Stress | | Allowable Load Based on Bending Deflection | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fb | 13,500 | psi | Allowable Bending | w=96FbS/l^2 | | w=24AFv/1.5l | | w=921.6EI(l/240)/l^4 | | |
| S | 0.5 | in^3/ft | Section Modulus | wb | 500 psf | wv | 16000 psf | w | 3.491646091 psf | l/240 |
| l | 36 | in | Center to Center beween supports | | | | | | 6.983292181 | l/120 |
| Fv | 6,000 | psi | Allowable Sheer Stress | | | | | | 2.32776406 | l/360 |
| I | 0.125 | in^4/ft | Moment of Inertia | | | | | | | |
| E | 339388 | psi | Modulus of Elasticity | | | | | | | |
| b | 12 | in | | | | | | | | |
| d | 0.5 | in | Depth | | | | | | | |
| A | 6 | in2/ft | Area | | | | | | | |

| | plexi MC | | | Allowable Load Based on Bending Stress | | Allowable Load Based on Shear Stress | | Allowable Load Based on Bending Deflection | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fb | 15,000 | psi | Allowable Bending | w=96FbS/l^2 | | w=24AFv/1.5l | | w=921.6EI(l/240)/l^4 | | |
| S | 0.5 | in^3/ft | Section Modulus | wb | 555.5555556 psf | wv | 16000 psf | w | 4.62962963 psf | l/240 |
| l | 36 | in | Center to Center beween supports | | | | | | 9.259259259 | l/120 |
| Fv | 6,000 | psi | Allowable Sheer Stress | | | | | | 3.086419753 | l/360 |
| I | 0.125 | in^4/ft | Moment of Inertia | | | | | | | |
| E | 450000 | psi | | | | | | | | |
| b | 12 | in | | | | | | | | |
| d | 0.5 | in | Depth | | | | | | | |
| A | 6 | in2/ft | Area | | | | | | | |

| | clear pvc | | | Allowable Load Based on Bending Stress | | Allowable Load Based on Shear Stress | | Allowable Load Based on Bending Deflection | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fb | 15,000 | psi | Allowable Bending | w=96FbS/l^2 | | w=24AFv/1.5l | | w=921.6EI(l/240)/l^4 | | |
| S | 1.125 | in^3/ft | Section Modulus | wb | 1250 psf | wv | 24000 psf | w | 15.625 psf | l/240 |
| l | 36 | in | Center to Center beween supports | | | | | | 31.25 | l/120 |
| Fv | 6,000 | psi | Allowable Sheer Stress | | | | | | 10.41666667 | l/360 |
| I | 0.421875 | in^4/ft | Moment of Inertia | | | | | | | |
| E | 450000 | psi | Modulus of Elasticity | | | | | | | |
| b | 12 | in | | | | | | | | |
| d | 0.75 | in | Depth | | | | | | | |
| A | 9 | in2/ft | Area | | | | | | | |

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| | Tuffak GP Poly | | | Allowable Load Based on Bending Stress | | Allowable Load Based on Shear Stress | | Allowable Load Based on Bending Deflection | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fb | 13,500 | psi | Allowable Bending | w=96FbS/l^2 | | w=24AFv/1.5l | | w=921.6EI(l/240)/l^4 | | |
| S | 0.5 | in^3/ft | Section Modulus | wb | 3863.586891 psf | wv | 44476.47 psf | w | 74.99999543 psf | l/240 |
| l | 12.95067 | in | Center to Center beween supports | | | | | | 149.9999909 | l/120 |
| Fv | 6,000 | psi | Allowable Sheer Stress | | | | | | 49.99999695 | l/360 |
| I | 0.125 | in^4/ft | Moment of Inertia | | | | | | | |
| E | 339388 | psi | Modulus of Elasticity | | | | | | | |
| b | 12 | in | | | | | | | | |
| d | 0.5 | in | Depth | | | | | | | |
| A | 6 | in2/ft | Area | | | | | | | |