House Specifications

Mailing Address:
University Productions
911 N. University
Ann Arbor, MI 48109-1265

Venue Address:
121 N. Fletcher Street
Ann Arbor, MI 48109-2017

Seating Capacity:
- Orchestra 914
- Orchestra wheelchair spaces 12
- Balcony 455
Total capacity 1369

Load-in Access
Location off East Huron
Loading Doors 18’ x 12’

Conference Equipment

Tables and skirting
- Three (3) 30” x 4’ conference tables
- Four (4) 30” x 8’ conference tables
- Two (2) 13’ royal blue table skirts
- Two (2) 21’ royal blue table skirts

Stage Specifications

Proscenium arch width 55’-3-3/4”
Proscenium arch height 28’
Depth of stage 42’
- (from curtain line to back wall)
Depth of apron 2’
- (front of stage to curtain line)
Off stage dimensions
- stage right 18’
- stage left 22’-3”
Dimensions of orchestra pit 31’ x 8’

Note: Orchestra pit is a hydraulic lift to stage level with four stops - stage level, house level, 7’-8” below house level, 14’ below house level.
Stage floor - Unpainted masonite on tongue-and-groove pine resting on sleepers.

Stage extension (use of Orchestra Pit at stage level)
NOTE: Use of the stage extension requires a loss of seating with additional labor charges for set-up and removal.
Seating covered:
- Sections 1-5 Rows A-C

Soft Goods:

Note: all draperies are black velour unless otherwise noted.
Front Curtain - manual, takes two (2) people, flies out, does not open center, follows apron, gold-checked color
House Drapery Hang: see house line plot for line set location
- One (1) Teaser 25’w x 90’h
- One (1) Cyclorama 60’w x 47’h
  (unbleached muslin)
- One (1) Rosco RP screen 60’w x 39’h
  “Twin White” (cannot move)
- Four (4) Borders 60’w x 15’h
- Four (4) Legs 12’w x 40’h
- Four (4) Legs 17’w x 40’h
- One (1) Traveler track
- Two (2) Travelers 25’w x 40’h
  hung with two (2) tabs 4’-3”w x 40’8”h
- Four (4) Travelers 32’w x 30’h
  (dead hung and cannot move)

Additional drapery:
- One (1) Scrim, white sharkstooth 60’w x 47’h
- Two (2) Scrims, black sharkstooth 50’w x 28’h
- Two (2) Orchestra pit drapes
  (one full length velour, one short Duvatine)
- Eight (8) Tabs 6’w x 30’h
- Four (4) Tabs 9’w x 30’h
- Two (2) Legs 15’w x 40’h
- Eight (8) Legs 17’-9”w x 30’h
- Two (2) Traveler Panels 31’-3”w x 30’h
- One (1) Border 50’w x 15’h
- One (1) Border 70’w x 7’-5”h
- One (1) Border (for Elec. A) 41’w x 15’h

Rigging:

Number of line sets 65
Height of grid from stage floor 80’
Highest batten can be flown 75’
Lowest batten can be flown 3’
Height of fly gallery and pin rail 40’ from stage floor
Distance from back wall to last set 11’-6”
Minimum pipe length 45’
Height of legs 40’

Arbor Information
- Total length 8’
- Loading clearance 1’
- Usable length 7’
- Full weight 25 lbs, 2-1/8” tall
- 1/2 weight 12 1/2 lbs., 1” tall
- Arbor capacity 39 full weights @ 975 lbs.
## House Line Plot:

<table>
<thead>
<tr>
<th>Line set # from plaster</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3'-6&quot;)</td>
<td>House Curtain</td>
<td>DS of plaster</td>
</tr>
<tr>
<td>C 0'-3&quot;</td>
<td>C</td>
<td>162&quot; long</td>
</tr>
<tr>
<td>B 1'-5&quot;</td>
<td>B</td>
<td>29'0&quot; long</td>
</tr>
<tr>
<td>A 2'-8&quot;</td>
<td>A</td>
<td>41'0&quot; long</td>
</tr>
<tr>
<td>3'-2&quot;</td>
<td>Dead hung torm panels w/black velour</td>
<td></td>
</tr>
<tr>
<td>3'-6&quot;</td>
<td>Dead hung traveler track w/pleated black velour drapes</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Distance</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>43 28'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>44 29'-0&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>45 29'-6&quot;</td>
<td>#10 Electric strips 60'-0&quot;</td>
</tr>
<tr>
<td>46 30'-0&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>47 30'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>48 31'-0&quot;</td>
<td>Black traveler 60'-0&quot; pipe</td>
</tr>
<tr>
<td></td>
<td>49'-11&quot; track</td>
</tr>
<tr>
<td>49 31'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>50 32'-0&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>51 32'-6&quot;</td>
<td>Border #5 60'-0&quot;</td>
</tr>
<tr>
<td>52 33'-0&quot;</td>
<td>Orchestra Shell 48'-8&quot; Perm.</td>
</tr>
<tr>
<td>53 33'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>54 34'-0&quot;</td>
<td>Leg #5 60'-0&quot;</td>
</tr>
<tr>
<td>55 34'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>56 35'-0&quot;</td>
<td>Rosco RP screen 60'-0&quot; Perm.</td>
</tr>
<tr>
<td>57 35'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>58 37'-0&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>59 37'-6&quot;</td>
<td>60'-0&quot;</td>
</tr>
<tr>
<td>60 38'-0&quot;</td>
<td>60'-5&quot;</td>
</tr>
<tr>
<td>61 38'-5&quot;</td>
<td>Cyclorama 60'-0&quot;</td>
</tr>
<tr>
<td>62 38'-11&quot;</td>
<td>Blackout Drape 60'-0&quot;</td>
</tr>
</tbody>
</table>

## Lighting System

### Location of company switch:
USR wall —110/208 3 phase 5 wire, 2 breakers @ 400 amps each

Note: Access to this power is ONLY via 400 amp locking CamLocks; Crouse-Hinds model #E0400-1687 female panel

### Lighting Control:

- One (1) ETC Obsession II (in booth)
- Two (2) ETC remote focus units w/extension cable
- One (1) ETC remote video interface w/2 color monitors
- One (1) ETC full remote interface (rfu, video, dmx512)

ETCnet and DMX ports distributed throughout. See circuit chart for details.

### Dimmers:

- Four Hundred Seventy-Two (472) ETC 2.4 KW Sensor dimmers
- Four (4) ETC 6.0 KW Sensor dimmers

House lights controlled through ETC Unison System

### Circuit/Dimmer Locations:
See attached plan of circuit chart.
Lighting Inventory:

Racks:
- Fifteen (15) 50° Source Fours (equiv. to 4.5 x 6), 575 watt HPL
- Forty-One (41) 36° Source Fours (equiv. to 6 x 9), 575 watt HPL
- One Hundred Nine (109) 26° Source Fours (equiv. to 6 x 12), 575 watt HPL
- Seventy (70) 19° Source Fours (equiv. to 6 x 16), 575 watt HPL

- Forty-Four (44) Source Four PAR with wide, medium, narrow and very narrow lenses
- Fifty-One (51) PAR 64 Altman steel with wide, medium and very narrow lamps available
- Ten (10) MR-16 L&L striplights 3 circuit/5 pairs lamps, 6’ long, EYC and EYF available
- Twenty (20) PAR 56 8’ strip lights, medium flood, 500 watt, 3 circuit, 12 light units with flippers
- Two (2) strip lights, 8’ long, R40 500 watt, 3 circuits/4 lamp
- Ten (10) Orion 3 circuit “far cyc” units, 1,000 watt FCM
- Ten (10) Orion 1 circuit “far cyc” units, 1,000 watt FCM
- Eight (8) LE Mini 10 units 1K

#0 Ring:
- Five (5) 8 x 9 Strand #1570 ERS, 750 watt EGG

#1 Ring:
- Forty (40) 10° Source Four, 575 watt HPL

#2 Ring:
- Twenty (20) 10° Source Four, 575 watt HPL
- Twenty (20) 5° Source Four, 575 watt HPL
- Eleven (11) 6 x 22 Altman 360Q ERS with iris & gobo slot, 1000 watt FEL lamp
- Two (2) Lycian Superstar HMI Followspots

Box Booms:
- Ten (10) 10° Source Four, house left, 575 watt HPL
- Ten (10) 10° Source Four, house right, 575 watt HPL

Torm Pipes:
- Six (6) 15° to 30° degree Source Four Zooms, house left, 575 watt HPL with 1/2 Hats
- Six (6) 15° to 30° degree Source Four Zooms, house right, 575 watt HPL with 1/2 Hats

Lighting Cable:
- Twenty-Five (25) 5’ stage cables
- Thirty-Nine (39) 10’ stage cables
- Fifty-One (51) 25’ stage cables
- Twenty-Two (22) 50’ stage cables
- Ten (10) 75’ stage cables
- One (1) 100’ stage cable

Forty (40) 20 amp 2-fers
Twenty (20) 20 amp 3-fers
Eight (8) 50 amp 3-fers
One (1) 50 amp 2-fer
Thirty-Five (35) 100’ 6 channel #12 multi w/Socopex connectors
Twenty (20) 75’ 6 channel #12 multi w/Socopex connectors
Thirty-Five (35) 50’ 6 channel #12 multi w/Socopex connectors
Four (4) 25’ 6 channel #12 multi w/Socopex connectors
Eighty (80) 6 channel staggered breakouts w/female stage pin
Eight (8) 6 channel x-ray staggered breakouts
Twenty (20) 6 channel breakouts w/female stage pin
Twenty (20) 6 channel breakouts w/male stage pin

Accessories:
- Twenty-Two (22) Color Ram IIs-Use limited to Source Four units. 1,500’ of control cable.
- Two (2) 24-Way Color Ram Power Heads, one with c-clamps
- Twenty (20) additional 19° Source Four barrels
- Seventeen (17) Source Four iris units
- Forty-Five (45) Source Four top hats
- Sixty (60) Source Four color extenders
- Sufficient quantity of template holders (Source 4, Altman, Great American)

House Sound System

Console
- One (1) 16 channel mixing board, Soundcraft K1 (in booth)
- One (1) 8 channel mixing board, Yamaha MC802 (portable)
- Four (4) Crest CC301 amps (outputs to speaker patch bay)
- Four (4) Rane GE-60 graphic EQ’s (normaled to Rane EQ’s)
- One (1) patch bay w/28 patch cords
- One (1) headset, stereo

Playback Devices
- Two (2) cassette tape decks, Tascam 122 mkIII (in road case)
- One (1) tape decks, Revox reel-to-reel A77 mkII (in booth)
- Two (2) dat tape decks, Tascam DA-30 mkII (in road case)
- One (1) cassette tape deck, Technics RS-TR555 (portable)
- One (1) compact disc, Tascam CD-401 mkII (in road case)
- One (1) minidisc player Sony MDS-E10 (in road case)

Speakers
- One (1) EV DeltaMax 1152/1122 speaker cluster (permanently mounted above stage center at proscenium)
- Four (4) Electro-Voice DeltaMax 1122A
- Eight (8) EV Sentry IIA
- Six (6) 50’ speaker cables (Speakon connectors)
- Fifteen (15) 25’ speaker cables (Speakon connectors)
- Fifteen (15) 10’ speaker cables (Speakon connectors)
- One (1) audio snake, 100’ long 8 x 4 channels
Monitor
One (1) booth program monitor
One (1) Crest CC301 amps
Two (2) JBL Control 3 speakers (mounted on wall in booth)

Microphones and Accessories
One (1) wireless microphone system
One (1) portable rack
One (1) Electro-Voice receiver SC-4
One (1) SM-58 wireless transmitter
One (1) lavalier transmitter and microphone (176.200 MHz)
Six (6) AKG 451 condensers, w/shotgun capsule
Six (6) AKG shock mount, small
Six (6) AKG shock mount, large
Four (4) Electro-Voice RE15
Four (4) Electro-Voice RE50
Two (2) Shure SM58
Two (2) Shure SM58 w/on-off switch
Twenty-Five (25) Microphone cables
Two (2) Shure shock microphone mounts
Six (6) Cocoon floor mount “microphone mouse”
Four (4) microphone stands, desk
Eight (8) microphone stands, floor round base
Two (2) microphone stands, boom attachments
Three (3) 18” gooseneck microphone stands

Microphone jack outlets
Mic line # | Location
--- | ---
1 - 2 | stage lip DSR
3 | stage lip DSRC
4 | stage lip DSC
5 | stage lip DSLC
6 - 7 | stage lip DSL
8 - 11 | Proscenium wall SR
12 - 15 | Proscenium wall SL
16 - 17 | USR wall
18 - 19 | USL wall
20 - 23 | Patch Panel SR
24 - 27 | O-Ring
28 - 30 | 1st Ring center
31 - 32 | 2nd Ring HL of followspot booth
33 - 34 | 2nd Ring HR of followspot booth
35 | Light Booth
P2 | stage lip DSR
P3 | stage lip DSRC
P4 | stage lip DSC
P5 | stage lip DSLC
P6 | stage lip DSL

Speaker outlets
Speaker Line # | Location
--- | ---
Left & Right Program | proscenium wall SR
1 | stage lip SR
2 | stage lip SL
3, 5, 7 | proscenium wall SR
4, 6, 8 | proscenium wall SL
9 & 11 | USR (up stage right)
10 & 12 | USL (up stage left)
13 | rear of orchestra HL (sec. 5)
14 | rear of orchestra HR (sec. 1)
15 | rear of balcony ceiling HL (sec. 6)
16 | rear of balcony ceiling HR (sec. 8)
17 | rear of orchestra HL (sec. 4)
18 | rear of orchestra HR (sec. 2)
19 | rear of balcony ceiling HL (sec. 9)
20 | rear of balcony ceiling HR (sec. 7)
21 - 22 | O ring
23 - 26 | 1st ring center
27 - 28, 31 | 2nd ring HL of followspot booth
29 - 30, 32 | 2nd ring HR of followspot booth
33 | light booth
34 | spare
35 | lobby floor HL
36 | lobby floor HR
37 - 38 | cluster amp rack
39 | vomitory entrance HL
40 | vomitory entrance HR
41 - 42 | sound booth rack

Communication System
Headset System
Twenty-Five (25) Beyer DT-108 single muff headsets
Three (3) Clear-Com KB-112 squawk box
Fifteen (15) Clear-Com RS-501 single channel belt packs
Five (5) Clear-Com RS-502 double channel belt packs
Sufficient headset cable for most applications.

Intercom
One (1) dressing room monitor system w/ dressing room page

Video
Two (2) cameras - One (1) fixed in booth, One (1) in orchestra pit
Two (2) Black/White monitors available for stage manager SR
Four (4) color monitors for late seating, two (2) on orchestra level outside lobby doors HR & HL, two (2) on balcony level HR & HL above doors on bridge
**Information System**
Ethernet 10 Base-T located in the box office, SL and SR, lobby, dressing room A, light booth, sound booth

Wireless 10 Base-T - Apple Airport Base Station (IEEE 802.11HR Direct Sequence Spread Spectrum 11 Mbps).

For information on how to configure to the U-Prod network: http://opserver.uprod.music.umich.edu/systems/airport.html

**Audio Visual Equipment**
One (1) 9’ x 12’ front or rear projection screen with side & bottom drapes

**Removable Seating**

<table>
<thead>
<tr>
<th>Row</th>
<th>Seats</th>
<th>Note</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Section 1</strong></td>
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<tr>
<td>D</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>1, 3, 2</td>
<td></td>
</tr>
</tbody>
</table>

|     |       | **Section 2**|
| B   | 1, 3, 2| Orch/HR Vom  |
| C   | 1, 3, 4, 2| Orch/HR Vom |
| D & E | 1, 3, 5| HR Vom      |
| F    | 1, 3, 5, 7| HR Vom     |
| F    | 2, 4, 6| HR Vom      |
| G & H | 1, 3, 5, 7| HR Vom     |
| J, K & L | 1, 3, 5| HR Vom     |

|     |       | **Section 3**|
| A   | 1, 3, 4, 2| Orch pit  |
| B   | 1, 3, 5| Orch pit   |
| B   | 2, 4| Orch pit   |
| C   | 1, 3, 5| Orch pit   |
| C   | 2, 4, 6| Orch pit   |
| D & E | 1, 3| Orch pit   |
| D & E | 5, 7, 6| Orch pit   |
| D & E | 2, 4| Orch pit   |
| F    | 1, 3, 5, 7| Orch pit   |
| F    | 2, 4, 6, 8| Orch pit   |

|     |       | **Section 4**|
| B   | 1, 3, 2| Orch/HL Vom  |
| C   | 1, 3, 4, 2| Orch/HL Vom |
| D   | 2, 4| HL Vom      |
| E   | 2, 4, 6| HL Vom      |
| F    | 1, 3, 5| HL Vom      |
| F, G & H | 2, 4, 6, 8| HL Vom   |
| J, K & L | 2, 4, 6| HL Vom   |

|     |       | **Section 5**|
| D   | 1, 2|             |
| E   | 1, 3, 2|             |

**Dressing Rooms**
Note: Washer and Dryer located in trap room. All dressing room access USR.

**One Flight Above Stage Level:**
Two (2) Dressing Rooms - Each with seating and mirrors for four performers with toilet, basin and shower.

**Stage Level:**
Two (2) Dressing Rooms - Each with seating and mirrors for four performers with toilet, basin and shower.

**One Flight Below Stage Level:**
Small Ensemble Room - seating and mirrors for 15 performers, showers, basins, and toilets.
Large Ensemble Room - seating and mirrors for 24 performers, showers, basins, and toilets.
Note: The wall between ensemble rooms is removable to make one large space.

**Miscellaneous Equipment**
Fifteen (15) Loose hemp lines, 5/8”
One (1) hoist, 1/2 ton, electric
One (1) one-ton CM chain motor w/60’ chain
One (1) bull winch
Two (2) hand trucks
One (1) upright grand Yamaha piano with bench
  (Additional charge for moving and tuning)
Three (3) costume racks
Two (2) 30” X 6’ prop tables
One (1) 24” paper cutter
One (1) United States flag with pole & floor stand
One (1) State of Michigan flag with pole & floor stand
One (1) University of Michigan seal
  (for officially sanctioned events)

**Ladders**
One (1) 8’ Step ladder
One (1) 10’ Step ladder
One (1) 12’ Step ladder
One (1) 16’ Step ladder
One (1) A-frame ladder on dolly (min. 16’h, max. ext. 28’h)
One (1) Genie personnel lift (max. platform height 30’)

**Orchestra Pit**
Fifty (50) music stands
Sixty (60) music stand lights
One (1) conductor’s stand
Forty (40) black Wenger orchestra chairs
Thrity (30) padded chairs
Thrity (30) bent plywood chairs