



**COLORADO CONVENTION CENTER  
BELLCO THEATRE  
TECHNICAL SPECIFICATIONS  
REVISED AS OF 4/1/2016**

**BELLCO SQUARE FOOTAGE**

39,626 sq. ft.

**LOADING DOCK (LOWER LEVEL DOCKS D & E)**

Two end-load bays; one also has side loading capability  
Distance from stage is approximately 100' (level, concrete surface)

**PERMANENT STAGE DIMENSIONS**

Width	100'
Depth	48'10"
Height	34'6" (to low steel, attachment is at 41'3")

**STAGING (THRUST)**

20 - 6'x8'x36" (stage level) risers available for thrust

**MEASUREMENTS AT THE PROSCENIUM**

Grand Teaser Opening	76' 0"
Stage floor to bottom of Grand Teaser	25' 0"
Stage floor to proscenium arch	32' 6"
Stage floor to bottom of tension grid	34'7"
Stage lip/plaster line to FOH	125'

**DRAPES AND MASKING**

**INCLUDED WITH RENTAL OF SPACE**

Front Curtain, Gray Motorized (Control is DSL)  
Front Teaser, Gray  
Mid-Stage Traveler, Black  
4 Sets of Legs, Black  
4 Borders, Black

**ADDITIONAL SOFT GOODS**

1 - Cyc, White Leno – 30'x60'  
1 - Scrim, Black  
1 - FOH Upper Level Curtain, Black (Fixed position, cuts house down to approx. 3,700)

**AIRWALLS**

2 - Air walls (Fixed position; cuts house down to approx. section 1 – 1,300, section 2 – 2,300, section 3 – 1,300)

## **RIGGING**

### **TROLLEY BEAMS**

FOUR POINTS SPACED OVER THE STAGE  
4000 POUND POINT LOAD OR 500 POUNDS PSF UNIFORM LOAD

### **ROOF TRUSSES**

MAXIMUM OF SEVEN 3000 POUND POINT LOADS AT DEFINED HANGING POINT LOCATIONS ON GRIDIRON  
MAXIMUM OF THREE 1000 POUND POINT LOADS LOCATED AS FOLLOWS:  
A. 3'- 0" FROM TRUSS PANEL POINT  
B. SPACED AT 15'- 0" ON CENTER (MINIMUM DISTANCE).

### **ROOF BEAMS**

MAXIMUM OF ONE POINT LOAD PER BEAM MEETING THE FOLLOWING:  
A. 300 POUND POINT LOAD (MAX) AT ANY LOCATION ALONG BEAM  
B. 500 POUND POINT LOAD (MAX) LOCATED WITHIN 5'- 0" FROM END OF THE BEAM

### **W18 BEAMS**

EACH W18 CAN SUPPORT ANY ONE OF THE FOLLOWING LOAD COMBINATIONS:  
A. 50 PSF  
B. 1000 POUND POINT LOADS SPACED AT 5'- 0" ON CENTER (MIN)  
C. A SINGLE 5000 POUND POINT LOAD ON BEAM

### **W10 IN-FILL BEAMS**

EACH W10 CAN SUPPORT ANY ONE OF THE FOLLOWING LOAD COMBINATIONS:  
A. 50 PSF  
B. A SINGLE 1000 POUND POINT LOAD ON BEAM

**"...Point loads of 1000 lbs or less suspended from the major roof beams are acceptable. As a guide, assume W24s can support 1000lbs, W18s can support 750lbs, W16s can support 500lbs; these loads can be placed at each end or one in the middle. The trusses can support 2000lbs from panel points."**

### **TRUSS**

33 – Thomas 20 ½" HD Triangle in 10' Sections (joins with pins)  
4 – Thomas 12" GP Box in 8' Sections (bolted)  
4 – Thomas 12" HD Box in 8" Sections (bolted)

### **CHAIN HOISTS**

All 50' motor cable:  
3 - 2 Ton (440v – 4 additional for house use)  
16 - 1 Ton (440v)  
2 - 1/2 Ton (110v – 3 additional for house use)  
8 - 1/4 Ton (440v)

## **LIGHTING**

### **LAMP FIXTURES**

- 130 - ETC Source 4 19° 750W Ellipsoidal
- 45 - ETC Source 4 10° 750W Ellipsoidal
- 10 - ETC Source 4 5° 750W Ellipsoidal
- 24 – ETC Source 4 750W Parnel
- 26 – Altman 1000W MFL Par 64 Cans
- 30 – Coemar iSpot 575W Moving Lights
- 22 – Chroma Q Color Force 72 RGBA LED Strip Lights

### **LAMP ACCESSORIES**

- 50 - Wybron CXI Color Changers
  - 50 – Backplates for Source 4 Ellipsoidal
  - 30 – Backplates for Source 4 Parnel
  - 8 – Color Changer power supply (each powers 8 color changers)
- 16 - 'A' pattern holders
- 5 - 'B' pattern holders

### **DIMMERS**

- ETC Sensor Dimmers (480 Dimmers, 30 Non-Dims)

### **LIGHTING CONTROL**

- 1 - Grand MA-2/Full
- 1 - ETC ION 2000 (W/ 2x20 Fader Wing)

### **FOLLOW SPOTS**

- 4 - Xenon Super Troupers 2000W
  - Located in ceiling/booth approx. 120' from front center stage
  - Movable from center to varying positions, out to approx. 60 degrees left or right

## **AUDIO**

### **REINFORCEMENT**

#### **For Talking Head Scenario (*This audio system is included in the space rental*)**

RENKUS-HEINZ ; Three clusters S/R, S/L, and Center  
STX 2's and STX 9's

#### **For Dynamic Presentation/Entertainment**

L'-ACOUSTICS LINE ARRAY; Two arrays S/R and S/L, total equipment consisting of:  
24 dv-DOSC Loudspeakers, 6 dv-SUB Subwoofers, 4 SB28 Subwoofers, 8 8XT Speakers,  
4 ARCS II Speakers, 8 LA8 Integrated Amplifier/Controllers, 1 Midas XL88 Matrix Mixer

#### **Additional Speakers**

4 - JBL MP412 Monitor Wedges

6 - L-Acoustics 112P Self-powered Coaxial Speakers

*NOTE: You will need to provide your own "personal monitors" (i.e., video village monitors)*

### **INPUTS**

1 - 300' 42x16 snake from FOH

### **AUDIO CONTROL**

1 - Yamaha PM5D v2 with Dugan-My16 Auto Mixing Controller Card

### **WIRELESS MICS**

5 - Shure UR4D 2-channel receivers (10 channels; 638-698 MHz frequency range)

10 - Shure UR2 handheld transmitters with either SM58 or Beta87A Capsule

10 - Shure UR1 transmitters with Shure 185 Lavs

3 - Countryman E6 Flex Directional EarSets

### **WIRED MICS**

10+ - EV 757 Handheld

10 - Countryman Isomax 4RF Hypercardioid 18" gooseneck

2 - DPA 4081 Miniature Cardioid

8 - AKG-CK47 Mic Capsules (with HM1000 hanging modules)

10 - Shure SM58-LC

7 - Shure SM81-LC

### **INTERCOM**

1 - Clear-Com 2-Channel (A or B) Hardwired

15 - Belt Packs

15 - Head Sets

Plug-in Locations: DSL, DSR, USL, USR, Spot Booth, FOH Control Position,  
3 in Audience, Green Room

### **MISCELLANEOUS AUDIO**

2 - CD Players

12 - Assistive Listening Devices

1 - Press Feed Multibox

**VIDEO**

**SCREENS (fixed positions)**

5 - 15' high X 20' wide

One center of house over pit

One each side of center over pit (2 total)

One on each proscenium wall near stage (2 total)

**PROJECTORS (fixed positions)**

2 – Side Projectors Hitachi CP-X8160 LCD, 6000 Lumens (positioned for proscenium wall screens)

1 – Center Projector Christie X3 HD, 4500 Lumens (positioned for center screen)

**VIDEO FEED**

Feeds needed to tie into house screens and projectors

- VGA - Front of House Position

- 5 Wire - Down Stage Left and Right

Flat screens are located in green room and all dressing rooms. A composite output is required to run video to back of house.

**MISCELLANEOUS VIDEO**

1 – DVD Player

*NOTE: You will need to provide your own “personal monitors” (i.e., video village monitors)*

## **TEMPORARY POWER/COMPANY SWITCHES**

**NOTE: Provide male Cam-Loc connectors at each panel for all 5 legs.**

<b>SW #</b>	<b>Location</b>	<b>Voltage</b>	<b>Amp</b>	<b>Phase</b>	<b>Wire</b>
1	On Dock Side of USR Rolldoor - Stage level	208	400	3	5
2	On Dock Side of USR Rolldoor - Stage level	208	400	3	5
3	On Dock Side of USR Rolldoor - Stage level	208	400	3	5
4	On Dock Side of USR Rolldoor - Stage level	208	225	3	5
5	USL - Stage level	208	400	3	5
6	USL - Stage level	208	225	3	5
7	On Dock Side of SR Access Door-Grid level	208	400	3	5
8	On Dock Side of SR Access Door-Grid level	208	400	3	5
9	DSR at Catwalk #1 - Grid level	208	225	3	5
10	FOH above Door #5	208	400	3	5

## **POWER DISTRIBUTION**

2 - MLI 200A BUSS with the following outlets:  
6 x L6-30, 3 x L14-30, 6 x Standard convenience outlets

## **SHOREPOWER**

### **FOR BUS/MOTOR COACH**

Capacity to service three busses/motor coaches with 50amp 120/208v 1p each  
NEMA 9450, standard 4pin straight blade that matches busses/motor coaches

## **LIFTS/MECHANIZED EQUIPMENT**

Please ask for availability:  
Electric Scissor Lift  
30' Genie Lift  
24' Genie Lift  
Forklift  
Pallet Jack

## **MISCELLANEOUS EQUIPMENT**

3 - Oak Wood Lecterns  
1 - 6' Kimball Grand Piano  
1 - Baldwin Upright Piano  
6 - Sections of 5'x7' scaffolding  
20 - Cable Ramps  
4 - Fire Extinguishers  
3 - Smoke Detectors  
4 - US Flags  
3 - Colorado Flags

## 2 - Denver Flags