



222 EAST MONROE PHOENIX, AZ 85004

## STAGE WEST FACILITIES AND EQUIPMENT INFORMATION

Architectural Design: Hunt, Needles, Tamen, and Bergendorf, Phoenix, AZ  
Theatrical Consultant: George Thomas Howard and Associates, Hollywood, CA  
Opening date of facility: August, 1989

President: Richard A. Bowers  
Vice President: Mark Mettes  
Technical Services Manager: Tami Updegraff



### Stage West: Flexible Theater

Maximum seating capacity proscenium: 328, two balconies.  
Maximum seating capacity thrust: 295  
Maximum seating capacity arena: See Technical Services Manager

#### STAGE FLOOR:

Resiliently-mounted subfloor consisting of two (2) layers of 5/8" plywood covered with flat-grain, tongue and grooved, 33/32" Northern Hard Maple, painted black with Rosco Tough Prime. Any attachments to the stage floor must be approved by Center Technical Staff.

#### STAGE DIMENSIONS:

##### PROSCENIUM:

Proscenium width is adjustable via sliding proscenium portal pieces on either side of the stage. Height is adjustable via the Grand Teaser.

Height (maximum)	24'-0"
Width (maximum)	35'-0"
(minimum)	27'-1"

##### CENTER LINE ON STAGE TO:

Arbor pit/locking rail	35'-6"
S.R. wall column face	58'-10"
S.R. edge of wood/concrete floor	38'-4"
Onstage edge of tabs	28'-6"
Company Switch off stage	49'-0"

## DIMENSIONS Cont.:

**\*NOTE:** Dimensions from the plaster line to F.O.H. locations are made from a point 6 feet above stage level on the center line.

### PLASTER LINE TO:

Back of house orchestra	50'-8"
Back of house first balcony	51'-3"
Back of house second balcony	53'-6"
D.S. edge of apron, including Bullnose	1'-11 1/2"
U.S. wall column face	37'-10"
Last U.S. fly line	36'-4"
Light control booth window	49'-0"
First balcony rail	42'-2"
Second balcony rail	43'-9"
First box boom to center bottom	18'-8"
Second box boom to center bottom	20'-3"
First box boom top	26'-10"
Second box boom top	27'-10"

### FROM STAGE LEVEL TO:

House floor	-3'-6"
Fly gallery	31'-4"
Electric Gallery	43'-3"
Loading Gallery	56'-4"
Gridiron	64'-4"
Bottom flange of roof beams	72'-3"
F.O.H. tension grid	30'-7"

### HOUSE CENTER LINE TO:

Loge/ balcony face	18'-1"
Box booms	18'-4"
House side walls at widest point	25'-0"

**NOTE:** If direct access to the stage from the house is needed by actors or audience members, arrangements must be made with CENTER Technical Staff prior to tickets going on sale.

## LOADING DOCK/RECEIVING BAY:

- 1) Loading dock and receiving bay is located on the west side of the building just south of Van Buren Avenue on Second Street.
- 2) Loading dock is at the stage level and can accommodate two (2) 48' trailers.
- 3) Loading Dock doors open into the receiving bay area. A set of double doors opens from the receiving bay into a short hallway, which accesses the dressing rooms and the stage. It is a straight shot from the hallway to the double doors, which open on to the stage, up stage left.
- 4) The "Broadcast Van Box" in the loading dock has thirty-two (32) balanced mic level tie lines and twelve (12) line level tie lines to the patch bay in the sound booth. Both A and B channels of intercom are also available, with four (4) jacks for each channel.
- 5) A 5" conduit system travels from the "Broadcast Van Box" to downstage right. This system is utilized in getting cable from the production van into the theater. If an audience will be present during the event being taped, the local fire code will require the conduit system be used to enter the building.
- 6) There is no on site parking.

## LOADING DOCK AREA DIMENSIONS:

Dock doors (overhead rolling)	8'-0"w X 12'-0"h
Dock Height	3'-8"h
Receiving bay	18'-0"w X 23'-0"h
Stage Access	7'-8"w X 11'-10"w
Receiving bay and hallway ceiling height	12'-6"h

## **STAGE RIGGING:**

**NOTE: DUE TO LOCAL FIRE REGULATIONS THE SAFETY CURTAIN MUST NOT BE OBSTRUCTED IN ANY MANNER WHICH COULD PREVENT ITS DEPLOYMENT AND COMPLETE CONTACT WITH THE STAGE FLOOR.**

**NOTE: ALL SCENERY, PROPS, STAGE DRESSING, COSTUMES AND ALL OTHER FLAMMABLE MATERIAL MUST BE FLAME PROOFED. RANDOM TESTING OF ARTICLES WILL OCCUR.**

- 1) Stage rigging consists of fifty-three (53) single purchase counterweighted line sets plus the Grand Drape, the Grand teaser and the safety curtain. There are also two (2) side-masking tabs, which run perpendicular to the plaster line. These are also single purchase counterweighted lines.
- 2) An arbor well allows for full batten travel from deck to grid. Lattice track mounted sets do not come into deck.
- 3) Arbor capacity is 1,500 lbs.
- 4) Locking rail is located stage left, at stage level. There is a steel double pin rail at the fly gallery and electric gallery on both sides of the stage.
- 5) See attached line set schedule.

## **ELECTRICAL:**

**NOTE: DUE TO POWER RESTRICTIONS THE TOTAL CONNECTED LOAD TO THE THEATRICAL LIGHTING SYSTEM SHALL NOT BE ALLOWED TO EXCEED 3,400 AMPS. THE COMPANY SWITCH IS PART OF THIS SYSTEM AND MUST BE FACTORED INTO THE TOTAL CONNECTED LOAD IF USED.**

- 1) Stage West theatrical, house, and lobby lighting system is fed from a single transformer providing 500 KVA, 120/208, 3 phase, 5 wire service.
- 2) Two (2) company switches are available down stage right. Each switch is fused at 600a, 120/208v., 3 phase, 5 wire. Tie in lugs have Cam-Loc style tails installed for disconnect.
- 3) All F.O.H. and grid circuits go through the "F.O.H INTERRUPT PANEL" located down stage right at stage level, allowing road show control of all such circuits.
- 4) Control system is a soft patch, dimmer per circuit for the 20 amp circuits. 50 amp circuits must be "hard patched" to 6Kw dimmers at the "F.O.H INTERRUPT PANEL," as well as soft patched to a control channel.
- 5) Control console is a STRAND 550i, controlling COLORTRAN I SERIES dimmers, located in the dimmer room on the stage right electric gallery.
- 6) All 20 amp theatrical lighting circuit connectors are stage pin with ground.
- 7) Circuits for electrics are multi-cables, which come from the stage right electric gallery. There are circuits for five (5) "standard" electrics, each using five (5) multi-cables with six (6) circuits per cable. Each cable has a multipin connector, which plugs in on the electric gallery, and a fan out with female pig-tails which ties on to the batten. Cable lengths are staggered to correspond to their position on the electric. Thirty (30) boom drop circuits are also available on each side of the stage, from ten (10) multi-cable fan outs with six (6) circuits each. Circuit identification is marked on all cables.
- 8) All five (5) house electrics locations are double-piped 26" apart.
- 9) There are 3-phase 120v/208v receptacles in various locations onstage. These require a NEMA L21-30 plug. This receptacle will deliver 120 volts per phase, and 208 volts configured delta.

## **DIMMERS:**

- (596) 2.4Kw
- (4) 6.0Kw

**ELECTRICAL Cont:**

<b>CIRCUIT DISTRIBUTION:</b>	<u>20amp</u>	<u>50amp</u>
F.O.H.		
Tension grid	128	
Technical balcony	48	
First balcony rail	52	5
Second Balcony rail	52	5
Proscenium Catwalk	8	
Sound/Lighting control booth	18	3
STAGE:		
S.R. electric gallery	150	6
S.R. boom drop circuits	30	
S.L. boom drop circuits	30	3
S.R. floor pockets	15	
U.S. floor pockets	24	
S.L. floor pockets	15	
Grid (terminal strip connector)	<u>16</u>	
TOTAL	596	<u>22</u>

**INSTRUMENTS**

A)	<u>Instrument inventory</u>	<u># of Fixtures</u>	<u>Wattage</u>
	10 Degree Source Four Ellipsoidal	9	575
	19 Degree Source Four Ellipsoidal	40	575
	26 Degree Source Four Ellipsoidal	69	575
	36 Degree Source Four Ellipsoidal	48	575
	50 Degree Source Four Ellipsoidal	8	575
	Source Four Pars (with WFL, MFL, NSP & VNSP lenses)	73	575
	8' Altman Zip Strips (MR16)(4 circuit)	6	75
	Two-Light Strand Iris Cyc Unit	18	1,000
B)	Unless arrangements have otherwise been made, all on-stage lighting equipment will be on storage racks: i.e. stripped electrics. Selected F.O.H. positions will have a limited number of equipment stored on them during strike.		

**AUDIO:**

**CONSOLE:**

Yamaha M7CL-32 Control console with thirty-two (32) inputs and an eight (8) fader Centralogic output section.

**PLAYBACK:**

- (2) Tascam MD-801R Mini-disk player/recorders
- (1) Denon DN-C680 CD Player
- (1) Tascam 122 MK II Cassette Player

**SIGNAL PROCESSING:**

- (1) Lexicon PCM-81 Multi Effects Processor
- (1) Lexicon MPX-1 Multi Effects Processor
- (1) Prosonus ACP-88 Compressor/Limiter (8 Channels)

## AUDIO Cont:

### **CLUSTER:**

A Left, Center, Right cluster with discrete sub woofer system. Components include EAW JF-200 and JF-100 speakers, and a SB-250 sub woofer. The system runs full range through Ashly Protea digital processors with a separate send to the sub system, and is powered by Crown K2 amplifiers.

- (1) Left Cluster JF-100 speaker
- (2) Center Cluster JF-200 speakers
- (1) Right Cluster JF-100 speaker
- (1) Sub woofer SB-250 speaker
- (2) Ashly Protea Digital Processors
- (5) Crown K2 amplifiers

### **SURROUND SOUND SYSTEM:**

There is a 4-channel surround sound system on each of the three levels of the theater. Each of the speakers is an EAW-CR72 and each level is powered by a 6-channel Crown CP660 amplifier.

### **EFFECTS/FOLDBACK SPEAKER SYSTEM:**

This is a dry line speaker system with eight (8) channels of amplification patchable to outlets located throughout the theater and on the stage. Four (4) Crown K2 amplifiers provide power for a full inventory of monitor speakers.

Two (2) EAW JF-200 speakers are patchable from two (2) designated amplifiers for use as Left and Right Mains. These speakers and amplifiers use the same patchbay as the Effects / Foldback system.

### **MONITOR SPEAKERS:**

- (2) JBL 4738 Speaker Cabinets with 1" horn, 10" mid cone, 18" low cone
- (2) JBL Control 10 Monitor Speakers with 1" tweeter, 12" low cone
- (2) Turbosound TXD-12M 12" 2-Way monitor wedges with a 12" LF driver and a 1" HF compression driver on a 70 x 40 HF horn.

### **MICROPHONES:**

- (4) Shure SM-58
- (5) Shure SM-57
- (2) Shure SM-87
- (2) Shure SM-58B
- (2) Shure SM-57B
- (3) Shure SM-81
- (4) Shure SM-94
- (2) Shure SM-96
- (3) Crown PCC-160

### **PRODUCTION COMMUNICATION:**

A complete two (2) channel Clear-Com system is available with permanently mounted stations at all standard production positions, as well as numerous individual outlets located throughout the theater.

### **PAGING AND PROGRAM:**

A complete 70.7 volt monitor system provides audio program and paging to all dressing rooms, hallways, and production areas as well as the theater lobby.

### **ASSISTIVE LISTENING SYSTEM:**

A two (2) channel listening system is available.

## AUDIO Cont:

### **ADDITIONAL ACCESSORIES:**

The following equipment is shared by both theaters and is available on a first come, first served basis. Contact the CENTER Technical Staff about reservation of this equipment.

- (4) Shure SM-91 Boundary Microphones
- (3) AKG CK-9 Shotgun Microphones
- (2) AKG 414
- (2) Sennheiser MD 421
- (2) Beyer M88-TG
- (10) Microphone stands w/ booms
- (3) Countryman 85 DI
- (2) JBL Control 10 monitor speakers
- (2) Anchor 1000 powered "hot spots"
- (2) DBX 180 Type I Noise reduction
- (2) DBX 960 Type I Noise reduction
- (4) Yamaha 2031 1/3 oct graphic equalizers
- (3) Alesis Midiverbs
- (2) Lexicon LXP-1 Multi-effects processor
- (2) Lexicon LXP-5 Multi-effects processors

### **DRESSING ROOMS:**

NOTE: All dressing rooms are on stage level. Ceiling heights in dressing rooms and hallways are 8'-0"h. Four and eight person dressing rooms share toilet and shower facilities in adjacent area.

- A. (2) Two person dressing rooms with bath
- B. (2) Four person dressing rooms with wash basin
- C. (2) Eight person dressing rooms with wash basin

### **OTHER PRODUCTION SUPPORT FACILITIES AVAILABLE:**

- 1) There is one rehearsal room at stage level with same flooring as the stage. Room size: 40'-0" X 56'-0". Door size: 6'-0"h X 7'-10"w. Requires an additional contract for use.
- 2) A crew room is located on stage level in the Center Stage dressing room area.
- 3) Wardrobe/Laundry room with sink at stage level, washer and dryer, and refrigerator. Door opening: 6'-4"w X 7'-10"h. Room: 6'-6" X 20'-0".
- 4) Prop room with sink. A Dutch door opens onto the stage in the crossover behind cyc. Door opening: 3'-0"w X 7'-10"h. Room: 8'-0" X 10'-0".

### **OTHER PRODUCTION SUPPORT EQUIPMENT AVAILABLE:**

- 1) Pianos:  
The CENTER has two (2) seven (7) foot Steinway Grand pianos and one (1) Upright piano. These are used in both Stage West and Center Stage on a first come, first served basis. There is a use fee for pianos.
- 2) Portable platforms:  
Stage West uses portable platforms manufactured by Staging Concepts to form the main orchestra seating area. Discuss your particular needs with CENTER technical Staff in advance if you require a change in the configuration. There is a fee associated with changing the house setup.
- 3) Followspots:  
The CENTER has two (2) Strong SUPER TROUPER II followspots located in the Lighting Booth. Each has a XENON 2K lamp. The spots can accommodate up to six (6) gels, each being industry standard 9" in diameter. There is a use fee associated with followspot use.

# HERBERGER THEATER CENTER STAGE WEST LINE SET SCHEDULE

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SET #	BATTEN LOCATION	BATTEN LENGTH	REMARKS
SC	0'-3"	41'-0"	SAFETY CURTAIN Lattice Track
TEASER	1'-6"	42'-0"	GRAND TEASER Lattice Track
ACT	2'-0"	42'-0"	GRAND DRAPE Lattice Track
1	2'-8"	56'-0"	#1 LEG
2	3'-5"	48'-0"	
3	3'-9"	48'-0"	
4	4'-1"	48'-0"	#1 ELECTRIC
5	4'-9"	48'-0"	
6	5'-3"	48'-0"	
7	5'-9"	48'-0"	
8	6'-3"	48'-0"	
9	6'-9"	48'-0"	
10	7'-3"	56'-0"	#1 TRAVELLER
11	8'-3"	48'-0"	
12	8'-9"	48'-0"	#2 MASKING BORDER
13	9'-3"	48'-0"	
14	9'-9"	56'-0"	#2 MASKING LEG
15	10'-3"	48'-0"	
16	10'-9"	48'-0"	#2 ELECTRIC
17	11'-3"	48'-0"	
18	12'-4"	48'-0"	
19	13'-3"	56'-0"	
20	13'-9"	48'-0"	
21	14'-3"	48'-0"	
22	14'-9"	48'-0"	
23	15'-3"	48'-0"	#3 MASKING BORDER
24	16'-3"	56'-0"	#3 MASKING LEG
25	16'-9"	48'-0"	
26	17'-3"	48'-0"	#3 ELECTRIC
27	17'-9"	48'-0"	
28	18'-3"	48'-0"	
29	18'-9"	56'-0"	#2 TRAVELLER
30	19'-3"	48'-0"	
31	19'-9"	48'-0"	
32	20'-3"	48'-0"	
33	21'-4"	48'-0"	
34	22'-5"	48'-0"	
35	22'-11"	48'-0"	#4 MASKING BORDER
36	23'-5"	56'-0"	#4 MASKING LEGS
37	24'-11"	48'-0"	#4 ELECTRIC
38	25'-5"	56'-0"	
39	25'-11"	48'-0"	
40	26'-9"	48'-0"	BLACKOUT
41	27'-3"	48'-0"	WHITE SCRIM
42	N/A		
43	28'-3"	48'-0"	#5 MASKING BORDER
44	28'-9"	48'-0"	BLACK SCRIM
45	29'-3"	56'-0"	#5 MASKING LEG

## STAGE WEST LINE SET SCHEDULE

Page 2 of 2

SET #	BATTEN LOCATION	BATTEN LENGTH	REMARKS
46	29'-9"	48'-0"	
47	30'-4"	48'-0"	#5 ELECTRIC
48	US/DS	32'-6"	STAGE LEFT TAB
49	31'-3"	48'-0"	
50	32'-3"	48'-0"	
51	32'-9"	48'-0"	
52	US/DS	32'-6"	STAGE RIGHT TAB
53	33'-9"	56'-0"	#3 TRAVELLER
54	34'-3"	48'-0"	
55	N/A		
56	34'-9"	48'-0"	
57	US/DS	23'-6"	
58	35'-9"	48'-0"	SEAMLESS CYC

### Stage West Soft Goods Schedule

TYPE	PIECES	DIMENSIONS	FULLNESS	COLOR
Grand Teaser	(1)	42'-0"w X 16'-0"h	100%	Blue
Act Curtain	(2)	23'-6"w X 28'-0"h	100%	Blue
Masking Borders	(1)	46'-0"w X 12'-0"h	0%	Black
Masking Legs	(2)	14'-6"w X 30'-0"h	0%	Black
Travellers	(2)	30'-6"w X 27'-0"h	50%	Black
Side Tabs	(5)	12'-0"w X 30'-0"h	25%	Black
Elec. Safety Borders	(1)	46'-0"w X 2'-10"h	0%	Black
Scrim	(1)	56'-0"w X 30'-0"h	0%	Black
Scrim	(1)	60'-0"w X 28'-0"h	0%	White
Seamless Cyc	(1)	56'-0"w X 36'-0"h	0%	Natural

The 'PIECES' category reflects PER PIPE inventory.