



OF DURHAM, NC

TECHNICAL INFORMATION PACKAGE

Carolina Theatre of Durham, Inc
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Thank you for considering The Carolina Theatre of Durham for your next event. We are a full service performing arts center serving the Durham/Raleigh/Chapel Hill market. The entire facility can hold up to 1700 people between 5 event spaces and 2 lobbies. Our professional staff can provide support for your event in all areas. In-house rental equipment is available at competitive rates.

EVENT SPACES:

FLETCHER HALL

Fletcher Hall is the main event space of the Carolina Theatre. It can seat up to 1044 people between the orchestra level (490) and 2 balconies (1st: 299, 2nd: 255).

CINEMAS

Cinema 1 and Cinema 2 are primarily used as movie theaters, they may be utilized to host other events. Both venues have a stage forward of their projection screen, and a small built in PA system. Cinema 1 also has a small theatrical lighting package. Cinema 1 has 226 seats including 8 next to the 7 wheelchair accessible spaces; Cinema 2 has 49 including 4 next to the 4 wheelchair accessible spaces.

KIRBY LOBBY

Kirby lobby is the primary entranceway and egress for the Carolina Theatre. It contains a concession stand, a merchandise area and several spaces for booth style advertising and presentation.

CONNIE MOSES BALLROOM

CMB is located one floor above Kirby Lobby adjacent to the 1st balcony seating in Fletcher Hall and has a beverage/concessions area. During most live events it is used as lobby space for concession sales, and is large enough to accommodate meet and greets, meetings or breakout sessions. It is not rented separately during an event in Fletcher Hall. The space measures 22' by 48' (1056 sq. ft), and capacity is up to 125 persons depending on room setup.

DONOR LOUNGE (UPPER BALLROOM LOBBY)

The Donor Lounge is located on the top floor, above Kirby lobby and Connie Moses Ballroom, and is adjacent to the 2nd balcony seating in Fletcher Hall. During most live events, it is used for lobby space and concession sales. It may also be used as a private area for donors and VIPs for specific events. The space measures 22' by 48' (1056 sq. ft) and has a beverage/concessions area. Capacity is up to 125 depending on room setup.

CINEMA LOBBY

The Cinema Lobby is directly adjacent to a second floor exterior door as well as the main hallway of the Durham Civic Center, providing easy access to both locations. It contains its own box office and concession stand. The lobby is split into 2 sections, separated by our "Carolina" arch. The lobby can be set up for merchandise, convention style booth space or even extra concessions.

PLAZA

The plaza in front of the Carolina Theatre is operated by the Durham Civic Center through Spectra.

SECURITY

Security can be administered through the Carolina Theatre as needed for any event, and is provided by Staff One, Inc. Rental fees may apply.

LOADING DOCK AND PARKING

Truck access is provided by a single driveway off Morgan Street leading to a one-bay loading dock. Trucks load directly into enclosed dock with concrete floor, which is 9' deep by 20' wide (Trucks are not under cover). Access from dock onto stage is by roll-up door in direct alignment with exterior dock door; door opens onto mid-stage left. The Carolina Theatre does not provide shore power, however running a bus generator is fine with the city.

- Distance from dock bumpers to sidewalk = 40 feet.
- Distance from dock bumpers to street = 48 feet.
- Dock height above driveway = 36 inches.
- Door opening (roll-up) into loading dock = 11'-10" H x 9'-0" W.
- Door opening (roll-up) from dock onto stage = 11'-10" H x 9'-0" W.



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West Morgan St is one way; we are on the left-hand side. If pulling a trailer, it is preferable to park the bus facing traffic and therefore downhill to facilitate safe and efficient loading. Click [Bus/Trialer/Truck Turnaround Instructions/Map](#) for directions to get your bus turned around. Find your Contact in Carolina Theatre and they will put out cones and block traffic if necessary.

Other parking can be on the street (metered Monday through Friday) or in the parking deck directly across the street from the venue.

FLETCHER HALL TECHNICAL SPECIFICATIONS

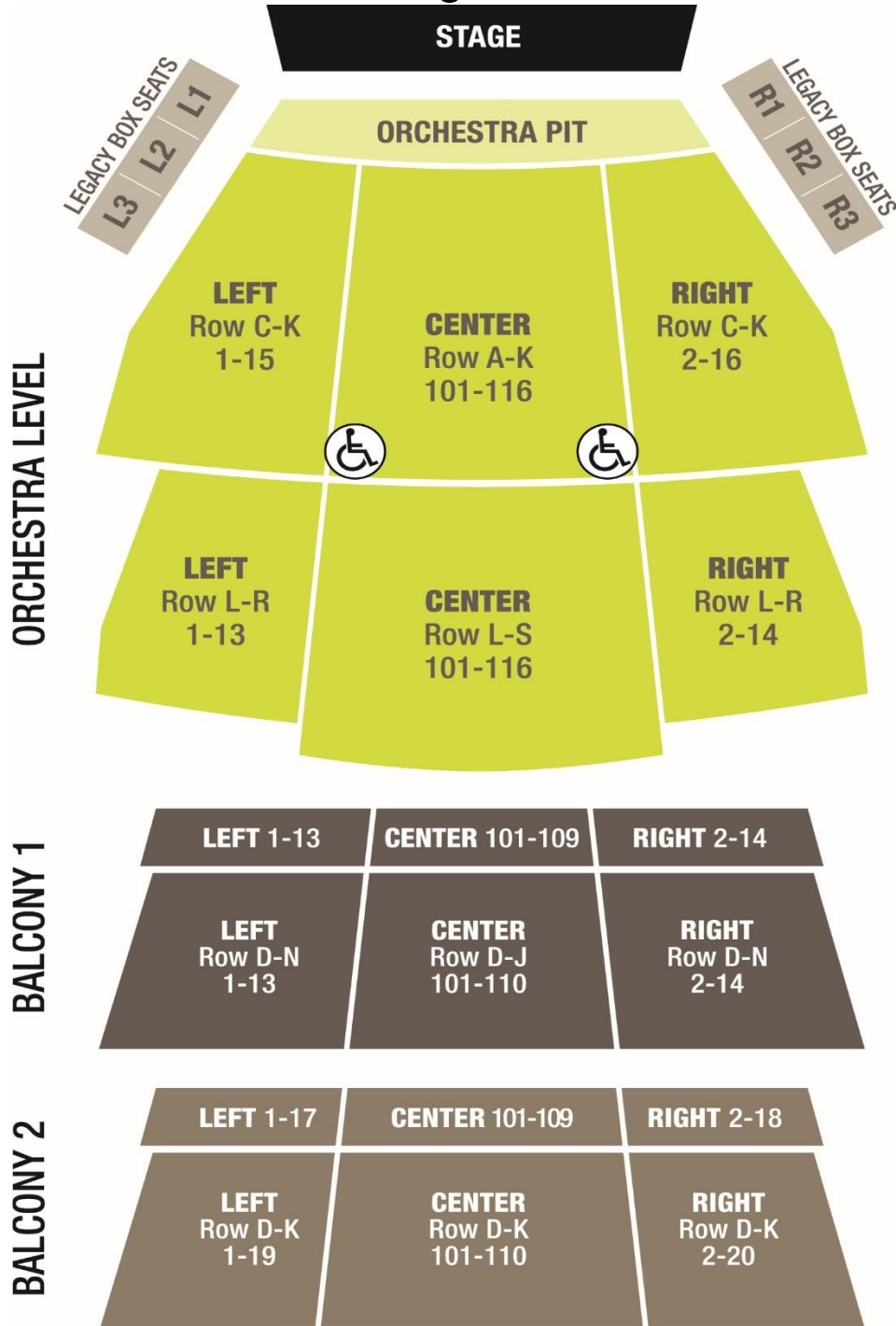


From center stage



From top of second Balcony

Seating Chart



Seats per section:

- Legacy Box Seats – 12
- Orchestra Pit – 44
- Orchestra – 434
- Balcony 1 – 299
- Balcony 2 – 255

DISTANCES AND MEASUREMENTS

Proscenium opening:

31'-6" wide

Height: 20'-0" from floor to fixed valance.

Depth: 30'-0" plaster line to back wall.

Apron measures 2'-5" from plaster line to the pit line.

Wing Space:

16' wide SR; SR height restricted (9'-4") first 6' from wall.

16' wide SL; no height restrictions.

Offstage right, there is an anteroom that can be utilized as an extension of stage right. **PLEASE NOTE THIS SPACE IS SEVERELY HEIGHT RESTRICTED, ONLY 7'-4" HEIGHT!** Access from the stage right wing is via a roll-up door 7'-4" H x 7'-6" W. This adds roughly an additional 150 sq. ft of storage or gathering space. Please note that this space also serves as the only access from the dressing rooms and green room to the stage via a separate "man" door.

Vertical Measurements: All vertical heights are plumb lines above finished floor. All angles and distance measurements are scaled from building blueprints. All measurements for the stage are scaled from the centerline of the building at the appropriate elevation lines on the floor at the proscenium opening.

Measurements (average) from Deck to:

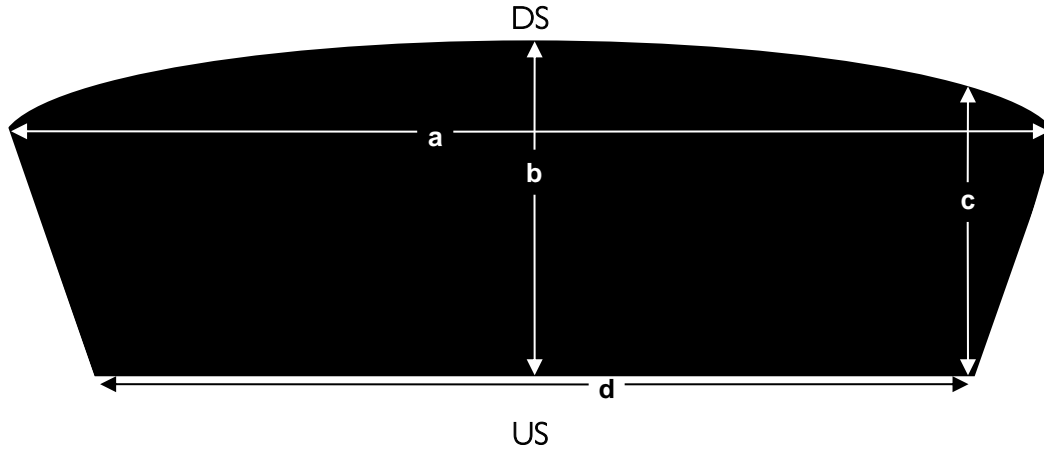
- Grid 48'-10"
- Pipe full out/working height 48'- 0"
- Pipe travel 44'- 0"
- Pipe at normal trim (goods) 24'- 0"
- Bottom soft goods full out 23'- 4"
- Electrics at normal trim 21'-10"
- Bottom of border at trim 18'- 0"
- Pipe all the way in 4'- 0"
- Bottom Fixed Valance 18'- 8"
- Bottom Main Curtain full out 20'- 8"

Lighting Instrument Throw:

House positions (electrics) are available on both balcony rails and the cove position.

Position	Distance to DC/ Plaster Line	Throw Angle	Distance to Front of Pit (Raised)	Height above Orchestra Floor
1 st Balcony	46' – 0"	28 degree	32' – 0"	13' – 6"
2 nd Balcony	66' – 0"	40 degree	55' – 6"	33' – 2"
FOH Cove	64' – 0"	60 degree		51' – 5"

Orchestra Pit: Our orchestra pit is mobile vertically via hydraulic motorized screw jacks. It may be positioned at basement level, orchestra level or stage level. This space can be used for performances or as part of the audience seating area. **The pit at stage level will create line of sight issues for the first two rows of seats.**



Measurements:

a- 33'-8"

b- 12' from apron, 14'-5" from plaster line

c- 10'-10" from apron, 12'-15" from plaster line

d- 22'-7"

Apron measures 2'-5" from plaster line to pit line (d).

Basement level shelf measures 5' from back wall to pit line (d).

Seating Distances:

Back of orchestra to stage is 72' (FOH mix position)

Back of first balcony to stage is 82'.

Back of second balcony to stage is 117'.

PROJECTION

Fletcher Hall is equipped for digital HD and DCP projection:

-Digital Projection Titan HD700 (1080p), 1st balcony rail (10k lumens)

-NEC NC2000c DCP Projector, Projection Booth (18,300 lumens)

HD projector inputs can include DVI, HDMI, RGB, S-Video and SDI connections

Projection Throw:

Digital Projection Titan (1st Balcony) to House Screen: 49'

Projection Booth (DCP) to House Screen: 87'

Movie Screens:

There is one (1) permanent movie screen for Fletcher Hall; the actual screen is 15'-2" by 31'-6" stretched on a metal frame flown on lineset 2. The batten trims out at 22'-6". The screen has frame border surrounding it, with traveling side masking. The bottom of the screen sits 48½" above deck.

Visible screen at full open position (2.35:1) 31' W x 15'-2" H

Visible screen fully masked (1.33:1) 19' W x 15'-2" H

The top and bottom of the masking are fixed, details are:

Type	Aspect Ratio	Width	Height
Maximum		31'- 0"	15'- 2" fixed
Scope	2.35	27'- 6"	15'- 2" fixed
Beta/Video		21'- 8"	15'- 2" fixed
Flat	1.85		15'- 2" fixed
Academy	1.37	20'- 2"	15'- 2" fixed
TV	1.33		15'- 2" fixed
Minimum		19'- 0"	15'- 2" fixed

A second projection screen is located on Lineset #19, about 14' upstage from the proscenium. It measures 16' wide x 9' high and is capable of front and rear projection. In addition, the cyclorama can also be used as a projection surface. **For these surfaces, It is important to keep in mind that the higher the image is off the ground, or the further upstage it is, the less patrons in the 2nd balcony can see of it!* Below you can see the cyc and the midstage screen being used:



Video Interfaces:

The DP Titan is interfaced with a Roland V1-SDI switcher, which can take either SDI or HDMI inputs. This is located in the audio booth. Please let us know if you need to connect directly to the projector.

The NEC NC2000c cannot be interfaced with directly. Use of this projector requires either a DCP format (or a movie format which can be converted to DCP) or a Blu-ray disc. An occasional exception can be made playing content using a computer. Blu-ray and computer content utilize an Extron 4x4 DXP Matrix Switcher (1080p resolution, HDMI interface).

Fletcher Cinema Audio:

Audio for digital content needs can be routed through the house PA system, or through the cinema system, depending on performance needs. DCP audio is routed through the cinematic system only.

Fletcher Hall's cinema audio system consists of 3 JBL 4638TH two-way speakers, 2 JBL 4642A dual 18" subwoofers and a number of surround speakers utilizing University Sound MC12a coaxial speakers. All the Fletcher Hall JBL cinematic speakers and subwoofers are powered by QSC PLX series amplifiers, processed by a United Sound Labs JSD-80 and located behind the main movie screen. The surround speakers are powered by a QSC PLD 4.2 amplifier, processed by the United Sound Labs JSD-80 and located in key spaces inside Fletcher Hall.

In the booth, cinema audio is monitored using a Smart Cinema Showman 4.

Assisted Listening and Descriptive Audio:

For patrons who are hearing and/or visually impaired, the Carolina can provide:

- Telex Sound Mate AAT-2, on channel A, (beltpack receiver and ear piece)
- QSC IRH-280 Headphones (headphones receive program or descriptive audio over infrared)*
- QSC CCR-100 Closed Caption Display*
- Neck worn induction loop for patrons with hearing devices

**These items are dependent on cinema program content; not all movies are programmed with descriptive audio and/or closed captioning.*

GOODS & RIGGING

- 37 double purchase line sets on T-Track.
- Locking rail is located SR, 12' above deck.
- Maximum working height of battens is 48'- 2"
- 42'-0" Battens (x29) rated for 1000 lbs. capacity with 5 lift lines.
- Arbors rated for 2000 lbs. each.
- 8 Battens are extended 2'-0" per side (46'-0" overall length).
- Pin Rail galleries SL and SR 29'- 6" above deck for spot rigging.
- Loading bridge SR 34'- 4" above deck.
- Main Curtain flies and travels.
- Midstage traveler permanently located LS 20, 16' upstage of the proscenium.
- Movie screen permanently located LS 2, 2'-8" upstage of the proscenium.
- See attached line schedule for details.

CAROLINA THEATRE -- LINESET SCHEDULE

LINE SET #	DESIGNATED USE	Weight	DISTANCE FROM Proscenium	BATTEN LENGTH	NOTES
FC	FIRE CURTAIN		0'-0"		PERMANENT
HC	HOUSE CURTAIN		1'-1"		PERMANENT
1	BLACK BORDER/LEGS	330	1'-8"	48' ladder	
2	MOVIE SCREEN		2'-7"	44'-0"	PERMANENT
3			3'-3"	44'-0"	
4	FIRST ELECTRIC	1450	4'-0"	48' ladder	Semi-permanent
5			4'-11"	44'-0"	
6			5'-6"	44'-0"	
7	BLACK BORDER	100	6'-0"	44'-0"	
8	BLACK LEGS	140	6'-6"	48' ladder	
9	BLACKOUT	240	7'-1"	44'-0"	
10			7'-9"	44'-0"	
11	SECOND ELECTRIC	1320	8'-9"	48' ladder	Semi-permanent
12			9'-7"	44'-0"	
13	BLACK BORDER	100	10'-3"	44'-0"	
14	BLACK LEGS	100	11'-0"	48' ladder	
15			11'-8"	44'-0"	
16			12'-8"	44'-0"	
17	THIRD ELECTRIC	1190	13'-6"	48' ladder	Semi-permanent
18			14'-3"	44'-0"	
19	PROJECTION SCREEN		15'-0"	44'-0"	16'x9', front and rear capable
20	MIDSTAGE TRAVELER	1260	15'-10"	48' ladder	PERMANENT
21	BLACK BORDER	100	16'-3"	44'-0"	
22	BLACK LEGS	140	16'-8"	48' ladder	
23			17'-7"	44'-0"	
24			18'-8"	44'-0"	
25	FOURTH ELECTRIC	1310	19'-7"	48' ladder	Semi-permanent
26			20'-1"	44'-0"	
27			20'-10"	44'-0"	
28	BLACK BORDER	100	21'-5"	44'-0"	
29	BLACK LEGS	140	22'-3"	48' ladder	
30	OLD BLACKOUT	240	23'-3"	44'-0"	
31	BLACK SCRIM	120	24'-0"	44'-0"	
32	CYC	160	24'-9"	44'-0"	
33	FIFTH ELECTRIC	1130	25'-3"	48' ladder	Semi-permanent
34			26'-1"	44'-0"	
35			27'-5"	44'-0"	
36	WHITE SCRIM	120	27'-9"	44'-0"	
37	BOUNCE	280	28'-1"	44'-0"	

Soft Goods:

Qty.	Description	Height	Width	Weight	Comments
1	Main Curtain	2 x 23'	26'		Flies & travels Majestic – burgundy
1	Mid-stage Traveler	2 x 25'	24'		Flies & travels Majestic- black
1	Blackout	24'	42'		
1	Black Scrim – Sharkstooth	24'	42'		
1	White Scrim – Sharkstooth	24'	42'		
1	Seamless Cyclorama	24'	42'		
1	Bounce	24'	42'		
5 sets	Legs	23'	12'		
5	Borders	6'	42'		

HOUSE ELECTRICS

The Carolina has a house plot that can be adapted to your needs. Onstage are five overhead electrics, the fifth dedicated for cyc lighting. A house plot is included in this package.

Lighting:

The Control Booth is located in the rear of the orchestra level.

- ETC ION console, with fader wing and 2 Monitors.
- System is configured dimmer per circuit.
- House lights are operable by UNISON architectural system, and are programmed into the house console.

Circuit No.	Location	Rated	No. of Circuits
1 – 33	FOH ceiling cove	20-amp ea.	33
34 - 37	First Balcony rail (dimnable edisons/6-plexes) Bates connector	20-amp ea. (Edison) 50 amp	4
38 – 49	Second Balcony rail	20-amp ea.	12
50-73	House Right Box Booms	20-amp ea.	23
74-97	House Left Box Booms	20-amp ea.	23
98-124	First Electric	20-amp ea.	24
125-151	Second Electric	20-amp ea.	28
152-178	Third Electric	20-amp ea.	28
179-205	Fourth Electric	20-amp ea.	25
206-223, 265-272	Fifth Electric	20-amp ea.	12

Carolina Theatre – Technical Information Packet

<u>Circuits:</u>	<u>location</u>	<u># of</u>	<u>rated</u>
226-264	SL Pin Rail	50	20 amp
273-312	SR Pin Rail	40	20 amp
313-316	SL Proscenium	4	20 amp
317-320	SR Proscenium	4	20 amp
321-326/ 379	US Right	6	20 amp/ 50 amp
327-332/ 380	US Center	6	20 amp/ 50 amp
333-338	US Left	6	20 amp
339-340	Orchestra Pit	2	20 amp

[Fletcher FOH Light Plot 12-21](#)

[Fletcher Overhead Light Plot 12-21](#)

Lighting Instruments:

Normal house plot includes all in house instruments and cyc lights. Default plot configured to accommodate a two-color front, three down and two high side washes.

No.	Type of Unit	Brand	Watts	Lamp	Frame size
45	10 Degree ellipsoidal	Colortran	1000	FEL	10 x 10
24	15 Degree ellipsoidal	Colortran	1000	FEL	7.5 x 7.5
24	20 Degree ellipsoidal	Colortran	1000	FEL	7.5 x 7.5
15	14 Degree Colorsource Spot	ETC	~575	~LED	7.5 x7.5
61	6x9 40 Degree ellipsoidal (2 swappable 50 Deg. lense)	Altman	575	FLK	7.5 x 7.5
18	6x12 30 Degree ellipsoidal	Altman	575	FLK	7.5 x 7.5
55	PAR 64		1000		10 x 10
7	3 Circuit cyc strips, 2 cells per circuit	LEE Colortran	1000	FCM	10 x 14
6	4 Circuit cyc strips, 1 cell per circuit	LEE Colortran	1000	FCM	10 x 14
5	Color Force 2, 72-inch Strip	Chroma-Q	B.A.F.	~LED	N/A

Two (2) - 2500W HMI Robert Juliat Cyrano Followspots – shot is from bubble in ceiling above 2nd balcony, center position.

Miscellaneous Equipment:

24 12" Double side arms	4 25lb black sandbags
10 10' Booms and bases	4 35lb black sandbags
2 50' Stage pin cables	4 50lb white sandbags
8 25' Stage pin cables	8 Clip lights
10 10' Stage pin jumpers	

Ladders and Lifts:

1 – 24' Genie lift	1 - 4' Fiberglass A frame
1 – 28' Extension	1 - 6' Fiberglass A frame
1 – 5' - 9' A frame to	1 – 8' Fiberglass A frame
10' - 18' straight Gorilla ladder	2 – 12' Fiberglass A frame

Power

(2x) 400A 3Y/208VAC disconnects located stage left adjoining each other.

These are on the same power grid as the dimmers. The upstage box has cam-lok connections with the ground/neutral reversed, the other ties in with bare tails

(1x) 100A 3Y/208VAC audio disconnect located stage left, DS of 400A (on facility power grid)

This is on a separate transformer and has cam-lok connections with the ground/neutral reversed.

(2x) 50A 208v CS6369 twist lock located stage left and right as indicated on overhead plot. (on facility power grid)

- Just offstage of proscenium SL and SR on the DS wall there are 3 20A Edison, and 2 20A L620's. *These are on the same audio transformer as the 100A above.*
- There are 2 220v/20amp single phase circuits on the 1st balcony. L620 connectors.

SOUND SYSTEM

The sound system has five components:

- Sound reinforcement/playback
- Intercommunications
- Paging and signal
- Assisted listening via RF (Telex)
- Film

Sound Reinforcement:

The sound reinforcement capability of our system is partially appropriate for amplified concerts. Additional equipment can be provided or rented depending on the needs of the performance. Mix position is located inside a booth in the back of the house, orchestra level. Road/production mixing position can be located rear of orchestra, house right, under balcony. These positions cannot be moved. A decibel meter may be provided to ensure a level of 94dba in house at mix position. There are 28 analog inputs located in different locations on stage and in the house, plus 32 digital inputs using the venues stage boxes.

Processing and Rack Gear:

- 1 Yamaha M7CL Digital Mixer, 48 inputs. (Input/ Output patch in sound booth)
- 1 Yamaha Rio 1608-D 16 input 8 output digital stage box
- 2 Yamaha Rio Ri8-D 8 input digital stage box
- Meyer Galileo DSP
- 1 third-octave graphic equalizers (Ashley Protea 4.24g in stereo)
- 4 Altec 1431a 31 band 1/3 octave eq, patchable
- Mac Mini; hosts Meyer Compass and Q-lab

Microphones:

- 4 Shure Wireless microphones (can be handheld or lavaliers)
- 5 Shure SM57 cardioid microphones
- 1 Shure SM58 cardioid microphones
- 3 Shure Beta SM58A microphones
- 6 Shure SM63 omni-directional microphones
- 3 Shure SM102B condenser microphones
- 3 Shure MX202B condenser microphones
- 3 Crown PCC 160 floor-mounting microphones
- 3 Audio Technica Pro 37 condenser microphones
- 2 Shure KSM 32 large diaphragm condenser microphones
- 2 AKG 414 XLS large diaphragm condenser microphones
- 4 Whirlwind DI boxes

Microphone Stands:

- 9 Adjustable floor mic stands
- 12 tripod mic stands w/boom
- 4 tripod short mic stands w/boom
- 12 Table mic stands

Speakers:

FOH:

- Meyer M'elodie Line Array, 20 boxes, 10 per side, permanently hung
- 4 Meyer 700HP subwoofers, 2 per side.
- 2 Meyer UPA-1P's, 1 per side.
These provide clarity to the seating underneath the box seats.
- 3 Meyer M1D's, front fills
- All speakers are processed by a Meyer Galileo 616

Monitors:

- 2 Yamaha S155h-II speakers monitor side-fills, flown
Monitor speakers are powered by QSC amplifiers
- 4 Martin BlacklineXP12 powered speaker monitors

Intercom System:

- Telex US-2000 headset system w/8 belt packs and single muff headsets.

Paging and Program Feeds:

- Selectable to dressing rooms, lobbies and ballrooms

Assisted Listening:

- Telex Sound Mate AAT-2, on channel A

Film Projection:

Fletcher Hall's cinematic audio system consists of 3 JBL 4638TH two-way speakers and 2 JBL 4642A dual 18 subwoofers, powered by QSC PLX amplifiers and processed by a United Sound Labs JSD-80.

See the PROJECTION section above.

Other Audio:

Soundcraft Ui16 remote controlled digital mixer; *used primarily for ballrooms.*

DRESSING ROOMS AND WARDROBE

There are 5 dressing rooms backstage of Fletcher Hall. All dressing rooms have vanity mirrors, lights and showers. Each dressing room is wheelchair accessible. In addition, there is a Green Room with kitchenette available for use during events.

2 Principal/Star	1 - 4 people
1 Quad	4 - 6 people
2 Chorus	20 - 25 people
Green Room	15 people

The wardrobe/costume room contains a washing machine and a dryer, 2 ironing boards, irons, 2 steamers and 2 mobile clothing racks.

CINEMA 1 AND CINEMA 2

Though the cinemas are primarily used as movie theaters, they may be utilized to host other events. Both venues have a stage forward of their projection screen, and a small built in PA system. Cinema 1 also has a small theatrical lighting package.

Seating:

Cinema 1 has 226 seats including 8 next to the 7 handicaps spaces.

Cinema 2 has 49 seats including 4 next to the 4 handicap seats.

Screen dimensions:

The screens are perforated to be acoustically transparent

Cinema 1:

Visible screen at full open position (2.35:1) 35' W x 15' H

Visible screen fully masked (1.33:1) 21' W x 15' H

Throw Distance: 67'

Cinema 2:

Visible screen at full open position (2.35:1) 18'-6" W x 8'-7" H

Visible screen fully masked (1.33:1) 12' W x 8'-7" H

Throw Distance: 46'

Projection:

Cinema 1:

35mm Kni-Tron L-2000 projector and a Strong Platter System.
NEC NC2000C (18300 lumens)
Kramer VS-42HN Matrix Switcher
Extron HAE audio de-embedder

Cinema 2:

NEC NC1200C (9300 lumens)
Extron DXP Matrix Switcher
Kramer FC-46xl audio de-embedder

Both houses use separate GDC servers for DCP content. Other digital content can be shown using in house Sony and/or Panasonic Blu-ray players; other content and media players can be utilized using spare HDMI inputs on the matrix switchers.

Lighting:

Lighting for both venues is controlled via an ETC Unison system. If necessary, we can provide a lighting console for more control of the theatrical lighting in Cinema 1.

Sound:

Cinemas 1 and 2 each use 3 JBL 3732 three-way cinema speakers, a single JBL 4642a dual 18” subwoofer, several JBL 8320 cinema surround speakers. Cinema 1 is processed by a QSC DCP 100, and a USL, Inc JSD-80 (for content on 35mm film). Cinema 2 is processed by USL, Inc. JSD-80. Speakers are crossed over with USL, Inc. XTA-300's and powered with QSC PLX series amplifiers while the surrounds are powered with Crown CTs 8200 amplifiers.

Speakers in both cinemas (except for the surrounds) are mounted behind the movie screens.

Both Cinema 1 and 2 utilize Dolby Model DA-20 Digital Film Sound Processors. Cinema 1 audio is monitored in the booth using a Smart MN586 and Cinema 2 utilizes a Smart Cinema Showman 4.

Soundcraft Ui16 remote controlled digital mixer, for PA/Live events. Each venue has 4 inputs wired into the stage in front of the movie screens.