

Reva and David Logan Center for the Arts

PERFORMANCE HALL

Technical Brochure



THE UNIVERSITY OF
CHICAGO

Arts

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PERFORMANCE HALL



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REVA AND DAVID
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STAGE



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STAGE GENERAL INFORMATION

STAGE FURNITURE

Wenger Musician Chairs
Wenger "Classic 50" music stands
(1) Wenger Director's Stand
(1) Wenger Conductor's Podium
(1) Standard Wooden Lectern
(1) Standard Lucite Lectern
(1) Drum Rug
(4) Choral Risers, 3 step or 4 step plus removable railing
(4) Southern Aluminum 4'x8' stage risers:
 Riser legs available in 8", 16" or 24" height
 Black velour skirting available in 16" and 24" only
(2) Steinway & Sons 9' "Model D" (2012, and a refurbished 1905)
(1) Yamaha P22 Upright Piano

Please reserve quantities in advance to ensure availability. A fresh piano tuning can be scheduled, when requested at least two weeks in advance, for \$125.

STAGE MATERIAL

The stage floor is semi-sprung and its surface is made from unfinished reclaimed Merbau wood.

MARLEY FLOORING

The entire stage area can be covered in black vinyl Marley dance flooring. Groups planning to use the stage barefoot should request installation of the dance flooring at least two weeks in advance.

ACOUSTIC SHELL

The upstage wall may be brought forward to create a curvilinear acoustic shell for unamplified musical performances. It can also be brought forward and used as a backdrop to reduce the floor plan of the stage.

WINGS

The three stage-left and stage-right wall panels can pivot open and lock to create stage wings.

POWER

A 400-Amp three-phase company switch is available for additional power needs. Use of the company switch must be approved in advanced and all connections must be made by a university electrician. Those interested in using the company switch must provide a certified, and regularly tested, power distribution system capable of safely handling 400 amps.

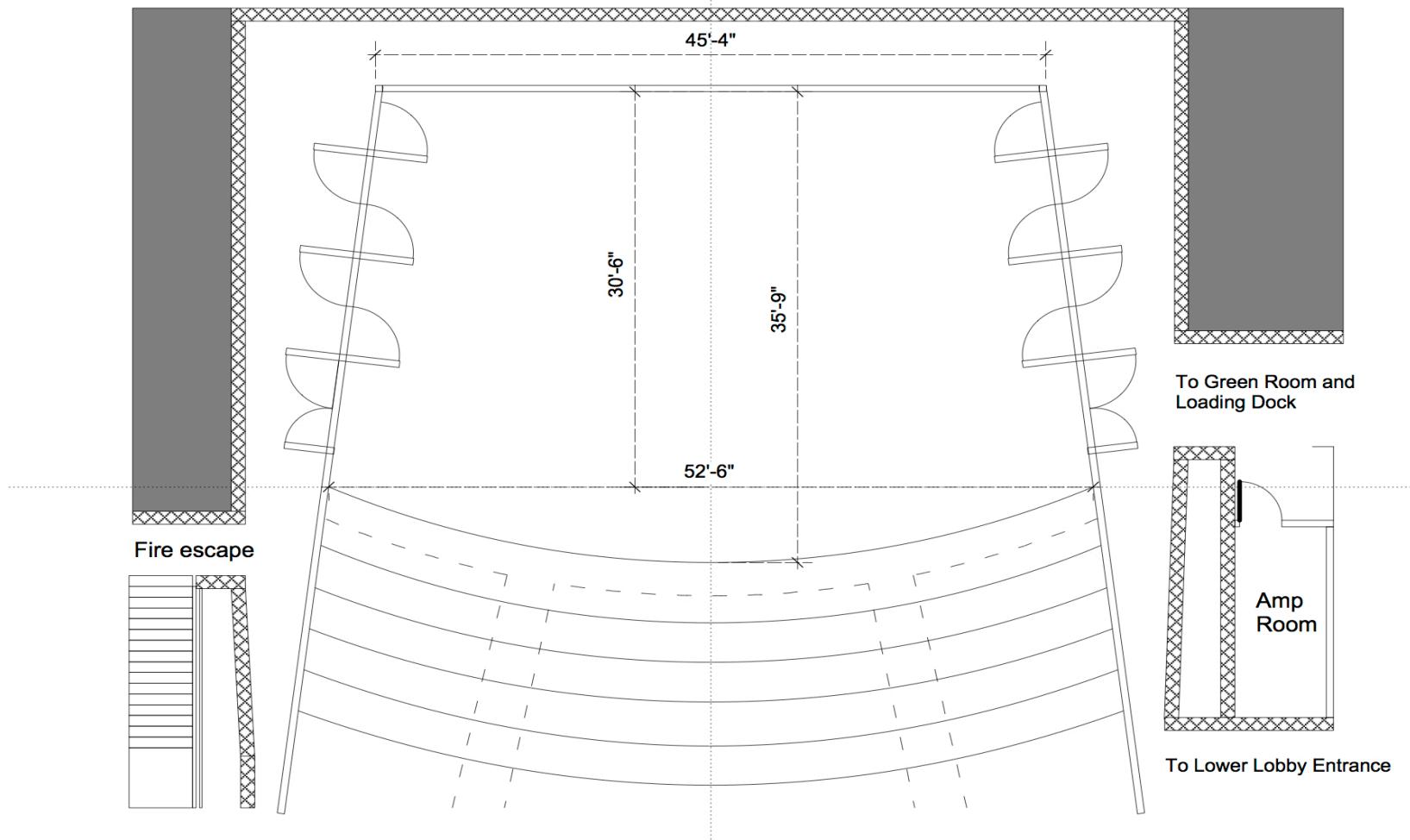
Connections to the company switch must be made through five Camlock connectors. The 'floating' of any connection for alternative power distribution is not allowed under any circumstance. If you are using the company switch for audio equipment, plan on bringing transformer isolation for every channel being used as the company switch is connected to the lighting power system.

BANNED MATERIALS

We do not allow glitter, oil, paint, confetti, or open flames in the greenroom or on stage, and all water must be contained.



STAGE FLOOR PLAN





MAIN SPEAKER SYSTEM

A left-center-right main loudspeaker system is permanently flown above the stage with motor-controlled height. Two wall mounted subwoofers and two wall mounted left-right side fills are tied into the main sound system.

- (3) L-C-R Mains: EV Xi 2123A
- (2) L-R Side Fills: EV ZX1
- (2) L-R Subwoofers: EV X-Sub

Preferred audio file formats for digital playback include:
WAV, AIFF, 48kHz sample rate

FRONT OF HOUSE CONTROL

Avid VENUE SC48 (D-Show 3.0)

- (40) Microphone/line inputs
- (16) Analog line outputs
- (4) Channels of AES3/EBU outputs

All inputs/outputs to and from the board are available at the stage level from a patch bay in the amp room.

MONITORS

There are eight independent monitor mixes feeding 16 available NL2 Speakon outputs at stage level. Monitors are run from FOH.

- (3) EV TX1122FM
- (2) EV TX1152FM
- (2) Community M12

Additional portable loudspeakers available for use:

- (2) EV TX1122
- (4) EV Xi1082
- (2) JBL PRX612

MICROPHONES

- (4) Shure SM57
- (4) Shure SM58
- (2) Shure Beta 58A
- (2) Shure SM87A
- (2) Shure SM27
- (2) Shure KSM137
- (2) Sennheiser MD421-II
- (3) Crown PCC160
- (2) DPA 4090

Shure ULX-P wireless microphone system:
(8 simultaneous channels available)

- (8) Shure ULX2-58 (handheld vocal)
- (8) Shure ULX2-WL185 (lavalier)
- (1) Shure ULX2-87A (instrument)
- (2) Countryman H6 (headsets)

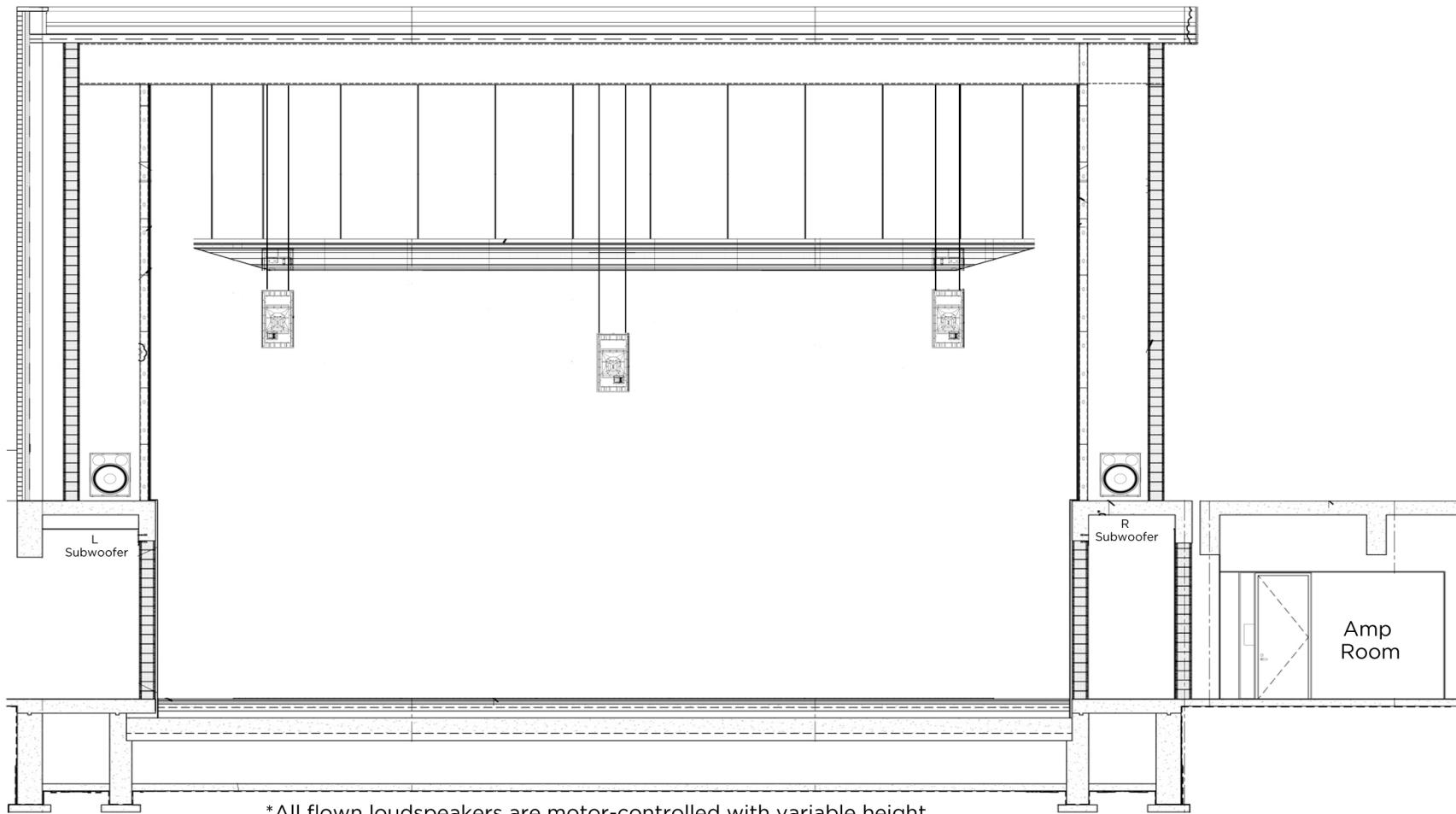
ADDITIONAL GEAR

- (1) 32 Channel, 100ft Portable Snake
- (1) 16 Channel Radial Microphone Splitter
- (16) Atlas Boom Stands
- (3) K&M Short Boom Stands
- (4) Atlas Straight Stands
- (4) Atlas Short Straight Stands

ACOUSTIC CONTROL

An acoustic-control banner system enables the acoustic response of the room to be altered; please see the banner drawing in rigging section. With the banners in place, the reverberation time (T-30) is approximately 1.0 second mid-band. Without the banners, it is approximately 1.35 seconds.





RECORDING BOOTH

A professional multi-track recording system is installed in the control booth overlooking the Performance Hall. Use of the Recording Booth must be booked at least two weeks in advance of the recording.

There are 16 microphone inputs and 16 line-level inputs that can be fed from any combination of balanced patch points throughout the Performance Hall to the recording booth.

Pro Tools HDx system:

- (2) Avid HDx I/O (16 Channel Interface)
- (2) Avid HDx Pre (8-Channel Microphone Preamps)
- (1) Grace M904B Monitor Controller
- (1) SSL Delta-Link 48-channel MADI HD Interface
- (1) Apogee Big Ben Master Clock
- (2) Dynaudio BM6A MkII

5.1 SURROUND SOUND MIXING SUITE

The Performance Hall maintains a bi-directional 48-channel fiber-based MADI link between the Recording Booth and the Digital Music Studio located in the lower level of the Logan Center.

The Digital Music Studio is equipped with a Pro Tools HDx system and supports 5.1 surround-sound mixing.

ARCHIVAL AUDIO RECORDING

A basic stereo archival audio recording of live events in the Performance Hall can be requested on site at no additional cost. This recording method is fed from distance microphones hung above the stage.

MULTI-TRACK RECORDING

Pro Tools multi-track recording is also available for live events in the Performance Hall. Multi-track recordings must be requested at least two weeks in advance. We are not able to provide any mixing or post production services.

A HFS+ Mac formatted hard drive with at least 100GB of available space must be provided on the day of the recording for transferring of WAV, OMF or PTX files.

VIDEOGRAPHY

The Logan Center does not offer videography services, but external videographers are welcome to set up in pre-approved locations. Please schedule a walk through of the Performance Hall in advance to plan for specific camera and crew locations.

If a videographer would like a feed from the audio console, they must arrive at least 30 minutes before doors open to the public in order to sound check. We will try to accommodate videographers who arrive late, but can not guarantee a working feed without a proper sound check.





REPERTORY PLOT

The Performance Hall's repertory lighting plot serves a variety of purposes including musical performance, dance, lectures, presentations, and film screenings. The plot offers zones of no-color as well as several systems of color and texture. The current rep plot includes:

- (20) fixtures in a white down-light system
- (14) fixtures in a white front-light system
- (4) fixtures in white back-light system
- (15) fixtures in a red down-light system
- (15) fixtures in a blue down-light system
- (4) fixtures in cool front-light system
- (6) fixtures in pink front-light system
- (2) fixtures in amber back high-sides
- (2) fixtures in purple back high-sides
- (4) fixtures in a textured wash, gobo pattern can be swapped
- (6) 3-cell cyc lights, permanently mounted above the stage with focus on the cyc (upstage wall)
- (6) shins, can be mounted in the wings for side light
- (6) front specials, available for focus
- (6) down pools, available for focus

Any changes to the house Repertory Plot must be scheduled and approved in advance.

CONTROL

The lighting system is run on a Strand ShowNet lighting network and controlled with a Strand Light Palette Classic. A wireless remote focus unit (RFU) and Strand ShowNet to dual DMX input/output nodes are available for use.

FOLLOWSPOTS

Two Lycian SuperArc 400 follow spot units with manual color changers are located in a control booth overlooking the Performance Hall. The throw is approximately 90' from the booth to the stage.

MUSIC STAND LIGHTS

- (20) corded music stand lights
- (6) cordless music stand lights

INTELLIGENT LIGHTING

The Performance Hall was designed to accommodate intelligent lighting fixtures, however its inventory contains only conventional units.

If you wish to provide intelligent lighting fixtures, DMX nodes can be used to support control of these units by converting Strand ShowNet to DMX.

STROBES/LASERS/ATMOSPHERICS

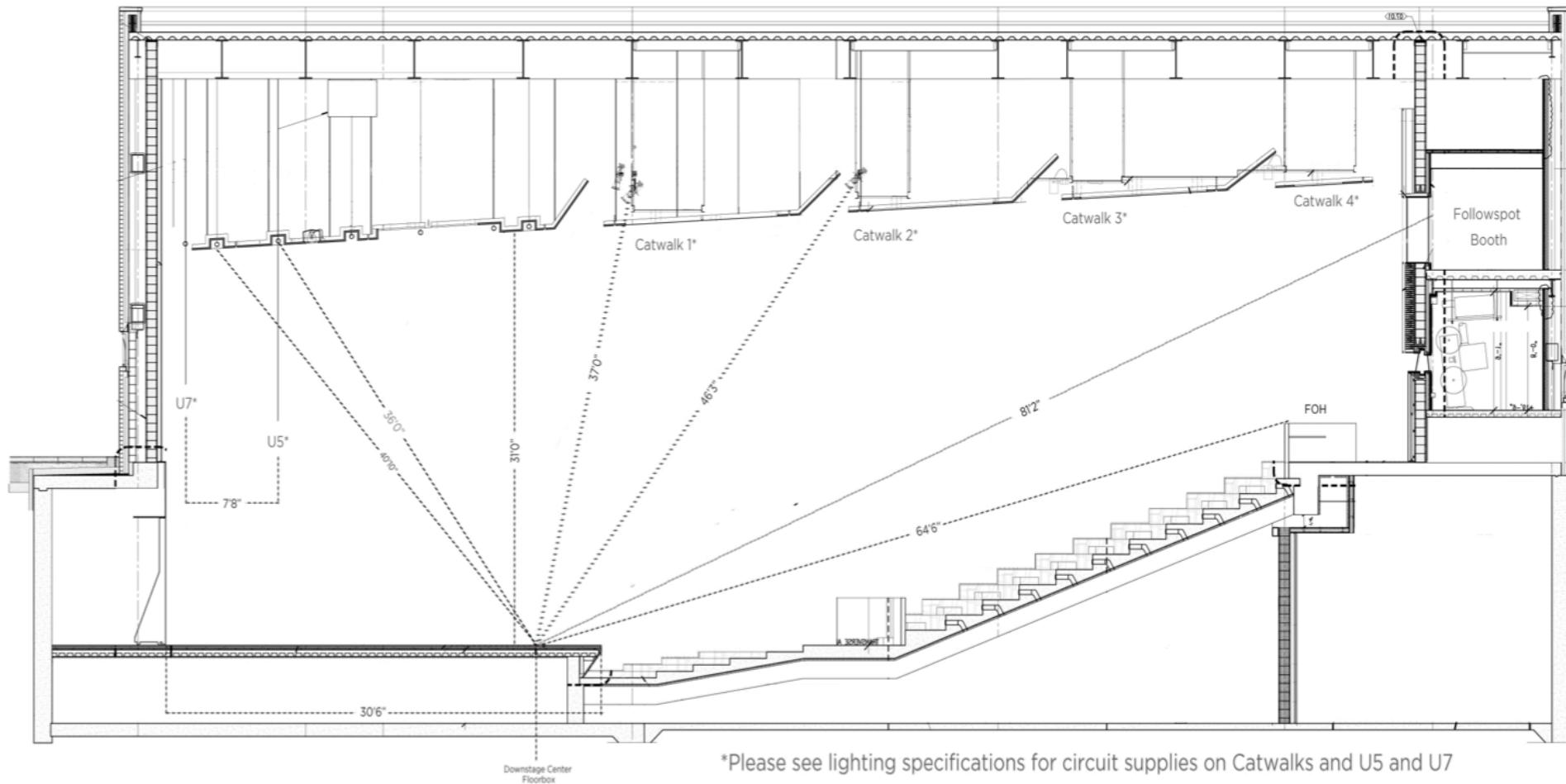
The Performance Hall does not own any strobes, lasers, or atmospherics, but welcomes outside fixtures. Use of strobes, lasers, or atmospherics in the space must be approved at least two weeks in advance for adequate public warning.

PYROTECHNICS

The use of pyrotechnics (including naked flames) is strictly prohibited.



LIGHTING WEST PERSPECTIVE



CATWALK 1

- (28) stage pin dimmed circuits
- (4) non-dim 20 amp L5-20 relays
- (2) Strand ShowNet ports

Throw from Cat 1 is approximately 37' to downstage center. The pipe is 47' long with a 44' opening in the false ceiling.

CATWALK 2

- (24) stage pin dimmed circuits
- (4) non-dim 20 L5-20 amp relays
- (2) Strand ShowNet ports

Throw from Cat 2 is approximately 46' to downstage center. The pipe is 47' long with a 44' opening in the false ceiling.

Architectural design does not allow lights to be pointed upstage from Cat 2, only downstage.

CATWALKS 3 & 4

There are no circuits on Cats 3 & 4

Architectural design does not permit lights to be pointed at the stage from Cats 3 & 4, only sections of the house.

ELECTRIC 1 (U5)

- (30) dimmed circuits in 5 female Socapex ports in the ceiling. Breakout inventory only permits 24 usable circuits.
- (3) non-dim 20 amp L5-20 relays
- (1) Strand ShowNet port

Throw from the first electric is approximately 36' to downstage center. The U5 electric has a 30' trim and is 41'8" long.

ELECTRIC 2 (U7)

- (27) dimmed circuits in 5 female Socapex ports in the ceiling. Breakout inventory only permits 24 usable circuits.
- (3) non-dim 20 amp L5-20 relays
- (1) Strand ShowNet port

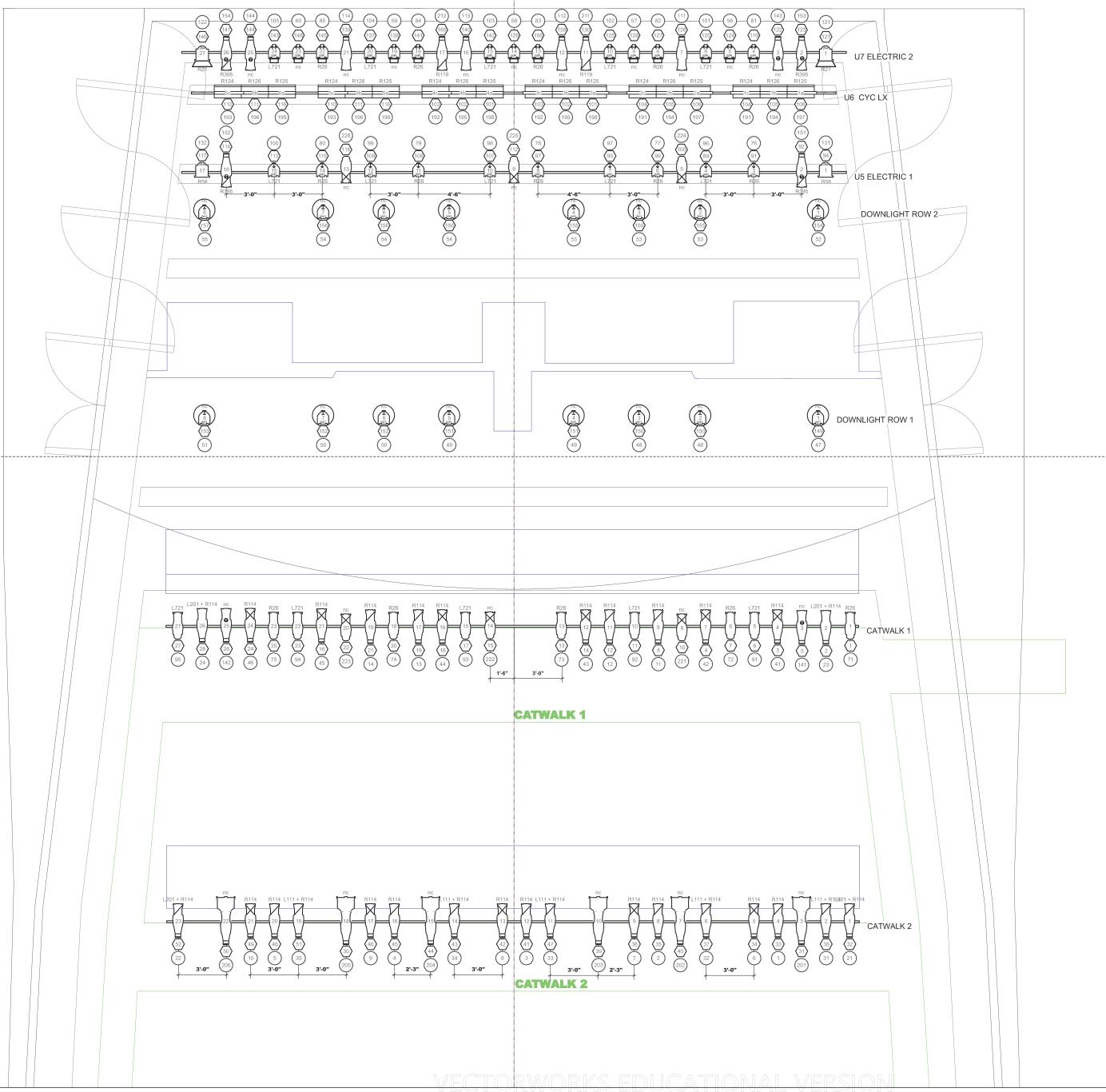
Throw from second electric is approximately 41' to downstage center. The U7 electric has a 30' trim and is 41' long.

STAGE LEVEL

- (36) Stage Pin Dimmed Circuits
- (6) Non-dim 20 Amp Relays
- (4) Strand ShowNet ports

All stage level circuits are located backstage in the wings and crossover.





PROJECTION



PROJECTION EQUIPMENT & PLAYBACK

PROJECTION SCREEN

A 25'x45' (16:9) rolling MegaScreen is permanently installed above the stage. The screen rolls in from above the false ceiling and lands approximately three feet off the stage.

When flown in, the usable stage area is reduced in size to approximately 18' x 50' at the plaster line.

SCREEN MASKING

An acoustically transparent screen masking system can be hung on each side of the projection screen. This masking system is motor-controlled and can cater to any aspect ratio from 4:3 to 2.4:1 including all current cinema standards. The screen masking system cannot fly out or close completely.

WHITE SCRIM

For productions that require projection with full stage usage, a white scrim can be hung along the upstage wall for use as a secondary projection surface. As with all rigging in the Performance Hall, the white scrim cannot completely fly out.

CONFIDENCE MONITOR SYSTEM

The Performance Hall's confidence monitor system consists of two 21" monitors and a single 27" monitor that can be placed anywhere on stage.

The monitors can be fed from a variety of sources run from backstage or the control desk, including a copy of the projection content. All three monitors must be fed from the same source.

DIGITAL PROJECTION

The Performance Hall is equipped with a cinema-quality DCI-compliant digital projection system based around an NEC NC3240S digital cinema projector. The current bulb configuration produces a 24,000 lumen output.

Acceptable media formats include:
DVD, Blu-ray, HD-Cam, DigiBeta and DCP (4K Doremi ShowVault)

A laptop connection can be made from stage, off stage, or from the control desk in the house. Available inputs include VGA, HDMI and DVI. Please bring the highest resolution available; for the most compatibility, 1920x1080p is suggested.

Preferred video file formats include:
ProRes 422 Proxy, ProRes 422 LT, and H.264

35mm FILM SYSTEM

The Performance Hall maintains a 35mm cinema projection system consisting of two Kinoton FP38E 35mm projectors. This system supports up to 7.1 surround sound and a wide variety of encoding formats.

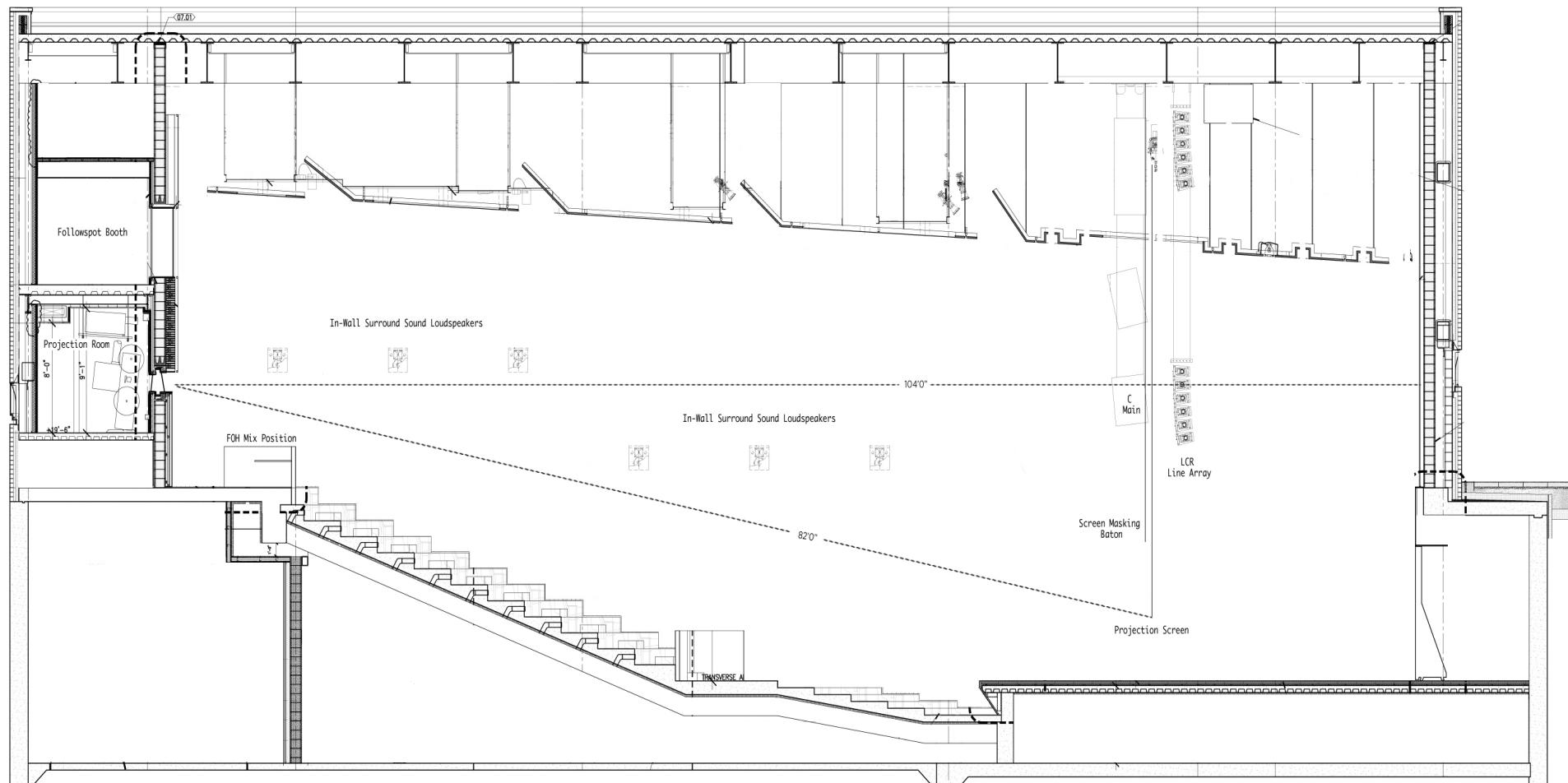
All projection content, digital and film, must be scheduled and tested ahead of the screening date to ensure system compatibility, playback preferences, aspect ratio, resolution, and A/V syncing.

AUDIO

The projection audio system consists of left-center-right EAW KF740 line arrays paired with 14 spaced surround loudspeakers and two subwoofers in a 7.1 configuration.



PROJECTION EAST PERSPECTIVE



RIGGING

SOFT GOODS, BATTONS & CONTROL

UTILITY BATTENS

Each of the eight utility line sets available is equipped with 1.5" pipe. Lengths vary from 41' to 49', narrowing as you travel upstage, each with a trim height of 30'. All line sets have a safe working load of 1500lbs. Typical configuration:

Proscenium leg curtains on U1
Grand traveler curtains on U2
Proscenium border on U3
Mid-stage leg curtains on U4
First electric on U5
Cyc lights on U6
Second electric on U7
White scrim or black backdrop on U8

CONTROL

All rigging is controlled from a JR Clancy Scene Control 500 interface in the stage left wing. Each of the eight motorized line sets are supported by GAC lift lines and JR Clancy drum winches.

The utility battens, acoustic banners, screen masking system, main speakers, line array and projection screen are all controlled from the same automated rigging console.

Also available is a Siemens 177 DP touchscreen remote control that can be used to operate rigging from the control desk in the house.

SOFT GOODS

- (4) Black velour leg sets
- (4) Black velour borders
- (1) Black velour full stage backdrop curtain
- (1) Black velour bi-parting traveler curtain
- (1) Black film screen masking system
- (1) Black scrim
- (1) White scrim

Legs and borders can be hung to create a proscenium curtain and to mask the stage wings. The full stage black can be used as a backdrop to create a black box look.

The masking system is fitted for use with the rolling projection screen and can be adjusted to match the aspect ratio of projection. It can not be used with the white scrim.

The white scrim can be used a secondary projection surface along the upstage wall without masking. It can also be used along with the cyc lights to create colorful backdrops.

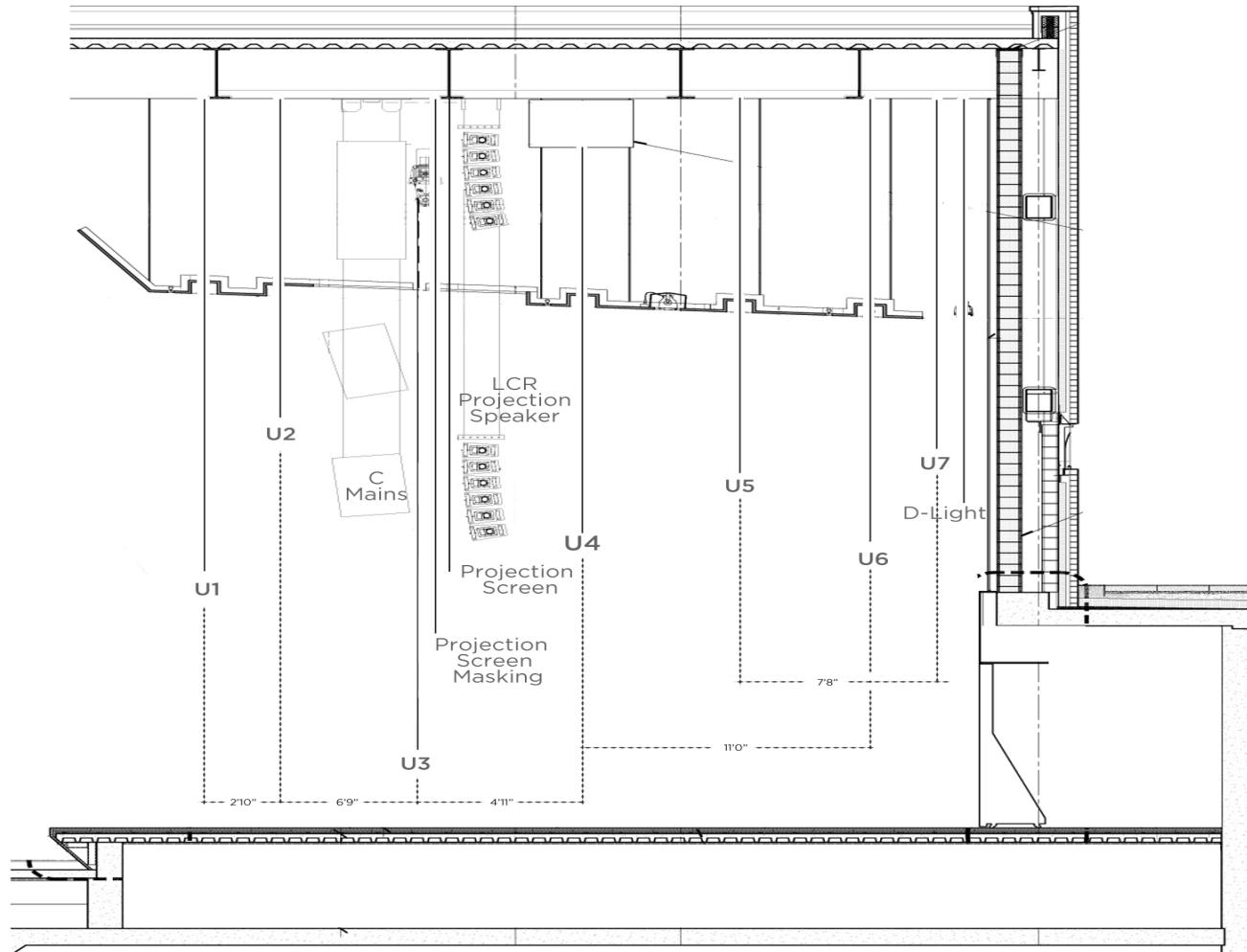
GRAND CURTAIN

The only traveler curtain in the Performance Hall is a black pleated velour bi-parting proscenium-style curtain that can be hung near the plaster line of the stage. It is operated with a manual rope and pulley system from the stage left wing.

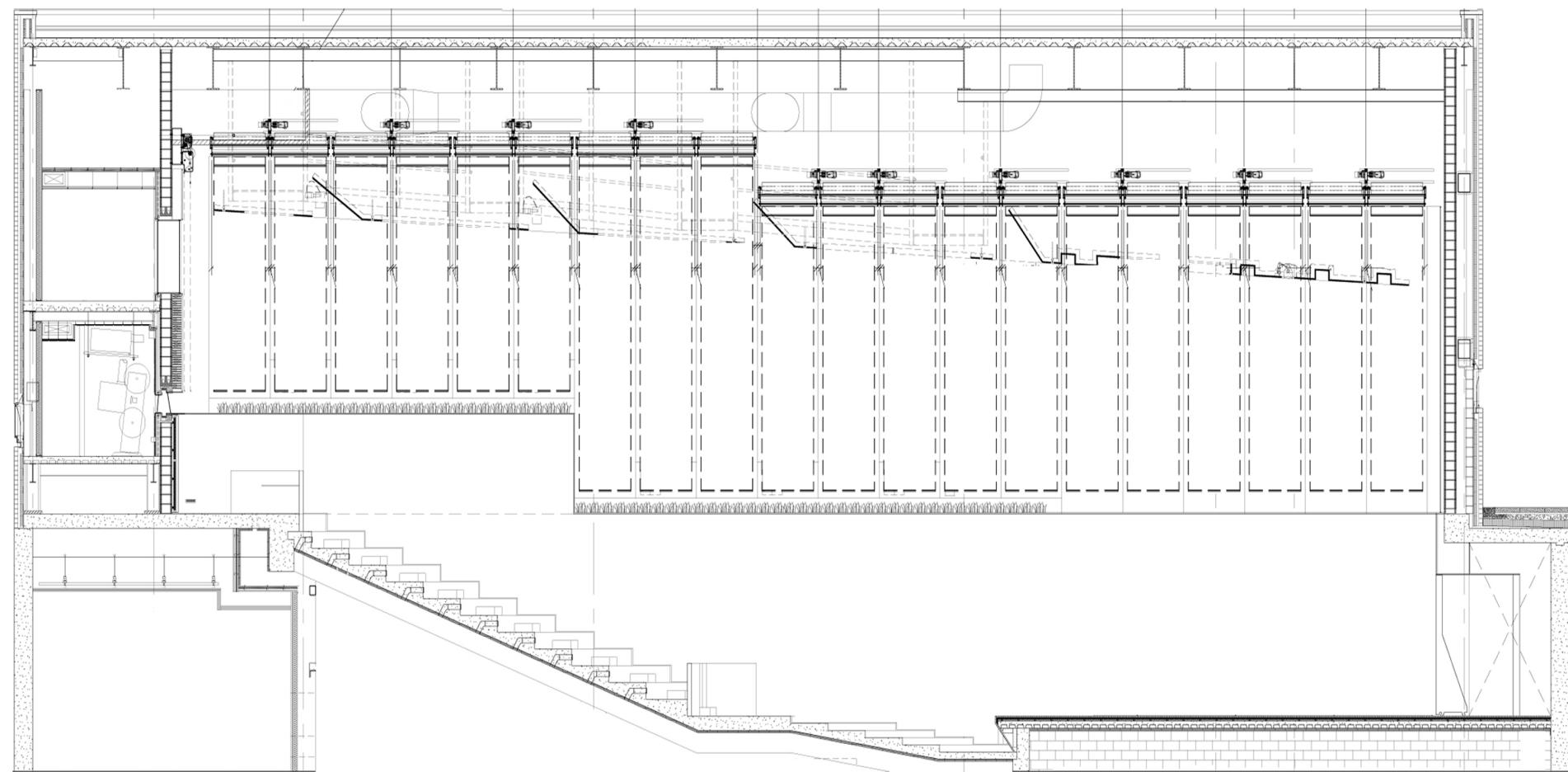
The main speakers are positioned upstage of the traveler curtain, so the surround sound speakers may be used for pre-show music and announcements.



RIGGING EAST PERSPECTIVE



RIGGING ACOUSTIC BANNERS



BACKSTAGE INTERCOM, DISTRIBUTION & GREEN ROOM

CLEAR-COM

The Performance Hall is equipped with a four-channel wired ClearCom intercom system. A total of 12 access points are spread throughout the technical booths, backstage, front of house, and green room areas.

For those interested in using their own RTS intercom system, eight channels of signal interfacing between ClearCom and RTS intercom systems are available.

AUDIO DISTRIBUTION

A permanently suspended in-house microphone sends a live audio signal to a distributed speaker system that feeds the backstage hallways, green room, dressing rooms, and control booths. Each space has its own independent volume control and source selection capabilities.

ASSISTIVE LISTENING DEVICES

The Performance Hall is equipped with an assistive listening device system which is fed from the suspended in-house microphones.

Assistive listening devices are available at every public performance in the Performance Hall. They can be requested from the Logan Center's box office, front of house manager or check room staff.

VIDEO DISTRIBUTION

A live in-house camera feed is permanently patched to a display in the greenroom and can be fed to the LCD displays at both entrances to the Performance Hall. This live feed cannot be used for video recording.

The LCD screens at both entrances to the Performance Hall can also be fed from a variety of video sources including:

- Digital signage (still image)
- Video files from a laptop
- Presentation files from a laptop
- Blu-Ray or DVD

GREEN ROOM

The Performance Hall green room contains the following reserved areas:

- (1) Main Lounge featuring a large open seating plan, includes a kitchenette unit with microwave and refrigerator.
- (2) Two-seat "star" dressing rooms with mirrors, restrooms, sinks, and showers.
- (1) Six-seat dressing room with mirrors, restroom, shower, sink, steamer, and ironing board.

Additional green room space may be available upon request, when scheduled in advance through the Logan Operations team.



SEATING CHART

SEATING CAPACITY 474

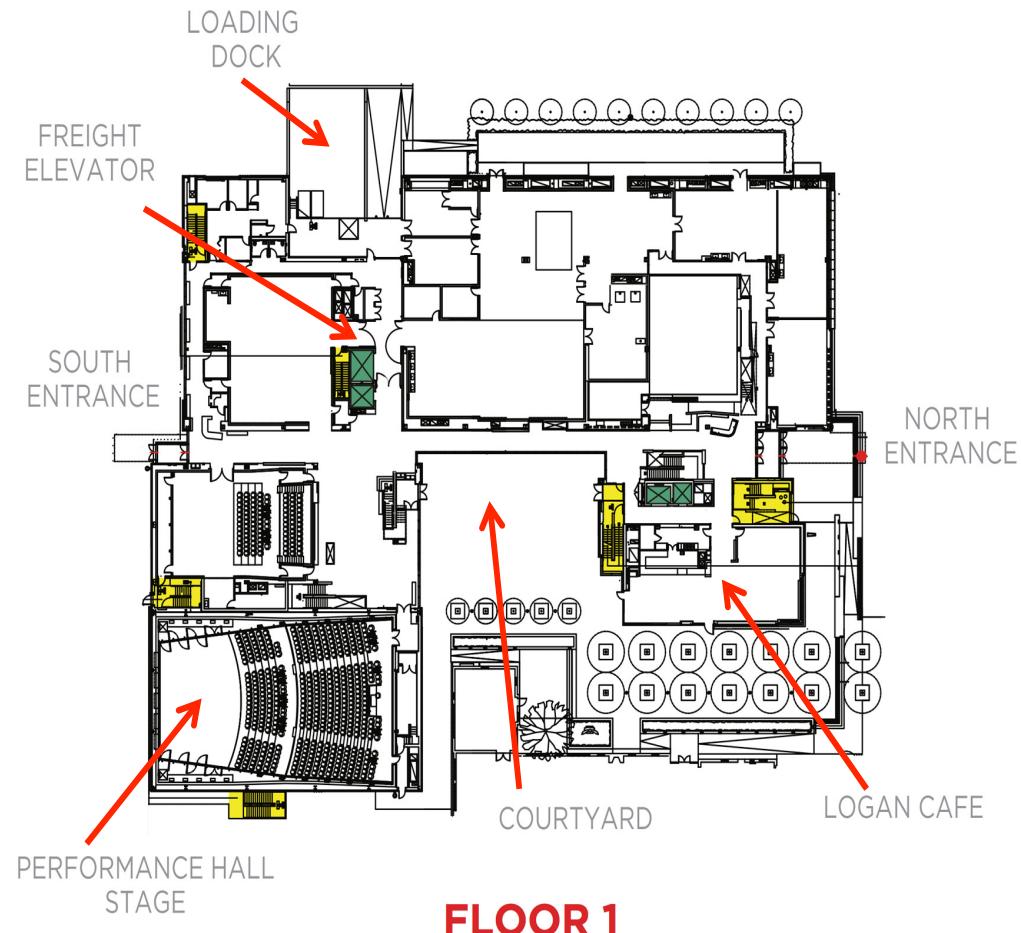
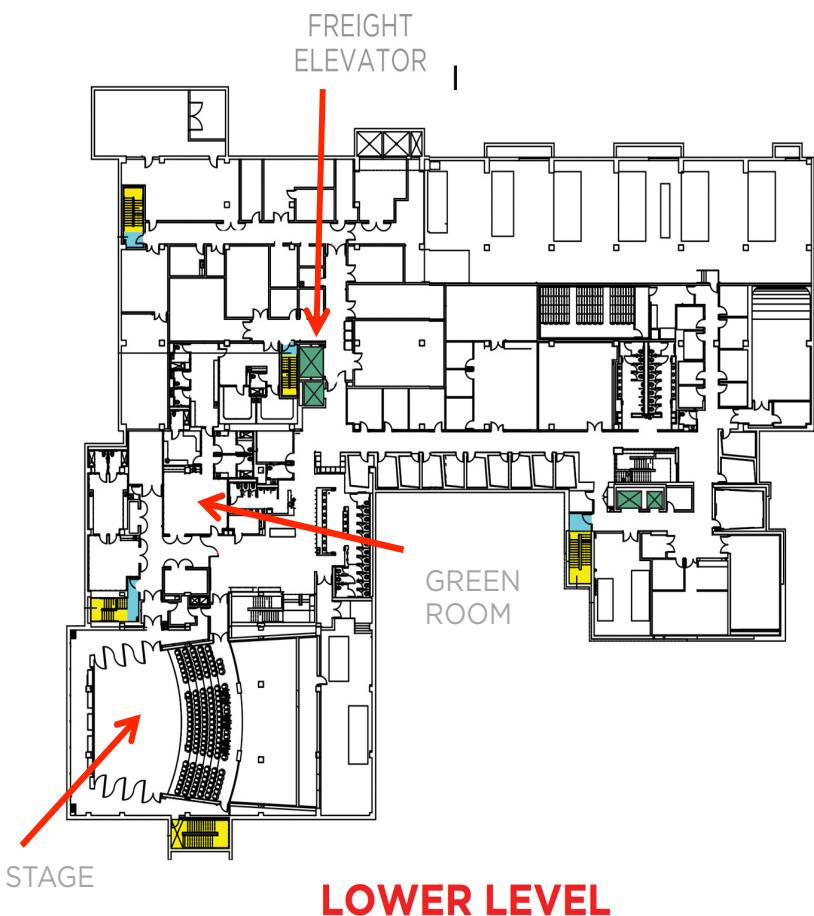
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LOAD IN MAPS

FIRST FLOOR & LOWER LEVEL



LOGAN CENTER

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Dial 123 from any campus phone



