



**CARLSON FAMILY STAGE  
TECHNICAL & PRODUCTION SPECS**

**TOURING VERSION**

Last Updated August 24, 2018

UNIVERSITY OF MINNESOTA  
**Driven to Discover<sup>SM</sup>**

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# CONTACTS

## NORTHROP

**Artistic Director  
Northrop Dance Series**

**Christine Tschida  
Artistic Director**  
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tschidac@umn.edu

**Rental & Operations**

**Kari Schloner  
Director of Northrop**  
612-625-0796  
kschlone@umn.edu

**Production & Stage**

**Justin Burke  
Technical Director**  
612-626-8245  
burke018@umn.edu

**Audience Services**

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Audience Services Manager**  
612-301-1960  
dwrussel@umn.edu

**Marketing**

**Cari Hatcher  
Marketing &  
Publicity Director**  
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chatcher@umn.edu

**Phone**

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**Web**

www.northrop.umn.edu

**Email**

northrop@umn.edu

**Mailing Address**

84 Church Street SE  
Suite 90  
Minneapolis, MN 55455

**Northrop Loading  
Dock Delivery Address**

73 Pleasant Street SE  
Minneapolis, MN 55455

## TICKET OFFICE

**Ticketing**

**Holly Radis-McCluskey  
Director of U of M Tickets  
& Events**  
612-625-0509  
radis001@umn.edu

**Box Office Phone**

612-624-2345

**Fax**

612-625-4008

**Email**

umntix@umn.edu

## SURDYKS CAFE

**Merchandise Sales**

**Dane Lund  
Surdyk's Cafe General Manager**  
Dlund@syurdyks.com  
(612) 624-5685

**Website**

surdykscatering.com/northrop

## UNIVERSITY CONTACTS

**First Aid**

**EMS**  
612-626-1312  
umems@umn.edu  
dem.umn.edu/umems

**Motorist Assistance  
Program (MAP)**

612-626-7275

**Security Monitor Program  
Escort Service**

612-624-9255

**University Parking and  
Transportation Services**

**Dillon Fried  
Events Manager**  
612-626-7275  
frie0218@umn.edu

**Parking and Transportation  
Services Phone**

612-626-7275  
umn.edu/pts  
parking@umn.edu

# INFO AT A GLANCE

## VENUE INFO

<b>Name</b>	Northrop
<b>Phone</b>	(612) 625-5000
<b>Address</b>	84 Church St SE Minneapolis, MN 55455
<b>Technical Director</b>	Justin Burke 612-626-8245 burke018@umn.edu
<b>Catering Contact</b>	Referral on request

## VENUE DETAILS

<b>Total Capacity</b>	2,692
<b>Balconies</b>	3
<b>Boxes</b>	8
<b>Sound Wings</b>	No
<b>Barricades</b>	No
<b>Stage Size</b>	60' wide, 69'9" tall, 39'6" deep (18.3 m wide, 21.3 m tall, 12 m deep)
<b>Fire Curtain</b>	Yes
<b>Sound Restriction</b>	No
<b>Smoke Detectors</b>	Yes
<b>House Light Location</b>	Control Booth and Stage Right
<b>Front of House Sound &amp; Light Desk Location</b>	Rows M, N, P, Q
<b>Front Curtain Color</b>	Maroon
<b>Production Office</b>	Yes
<b>Production Phone</b>	612-301-7153 612-301-7154
<b>Dressing Rooms</b>	10
<b>Toilets</b>	13
<b>Showers</b>	13
<b>Hospitality Area</b>	Yes — Green Room
<b>Kitchen</b>	No
<b>Gas Cooking Permitted</b>	No
<b>Hot &amp; Cold Running Water</b>	Standard sink
<b>Kitchen Power</b>	No

<b>Load-in Entrance</b>	Yes
<b>Details</b>	Loading dock with machine door. Door is 10' wide by 20' tall. (3 m wide by 6.1 m tall)
<b>Distance to Stage</b>	38' (11.6 m)
<b>Parking Truck Parking Busses</b>	Max 2 on site 2 to 3 depending on number of trucks
<b>Shore Power</b>	200 amp, 208 volt, 3 phase
<b>Parking Permits</b>	Provided upon arrival
<b>Freight Elevator</b>	Yes
<b>Elevator Dimensions</b>	10'6" wide, 8' deep, 7'6" tall (3.2 m wide, 2.4 m deep, 2.3 m tall)
<b>Elevator Distance to Stage</b>	28' (8.5 m)
<b>Merchandise Area Contact</b>	Yes — located in Atrium Dane Lund Surdyk's Cafe General Manager Dlund@syurdyks.com (612) 624-5685

# SEATING

**Carlson Family Stage at Northrop can seat a maximum total of 2,692 people.**

<b>Orchestra (G)</b>	744 fixed (11 wheelchair) +16 loose	760 seats
<b>Orchestra Circle (1)</b>	400 fixed (0 wheelchair) + 14 loose	414 seats
<b>Presidents Circle (2)</b>	357 fixed (0 possible wheelchair) + 46 loose	403 seats
<b>Scholars Circle (3)</b>	433 fixed (2 possible wheelchair) + 46 loose	479 seats
<b>Gallery Circle (4)</b>	622 fixed (2 possible wheelchair) + 28 loose	650 seats

**The following features would require seats to be removed from the Orchestra Level:**

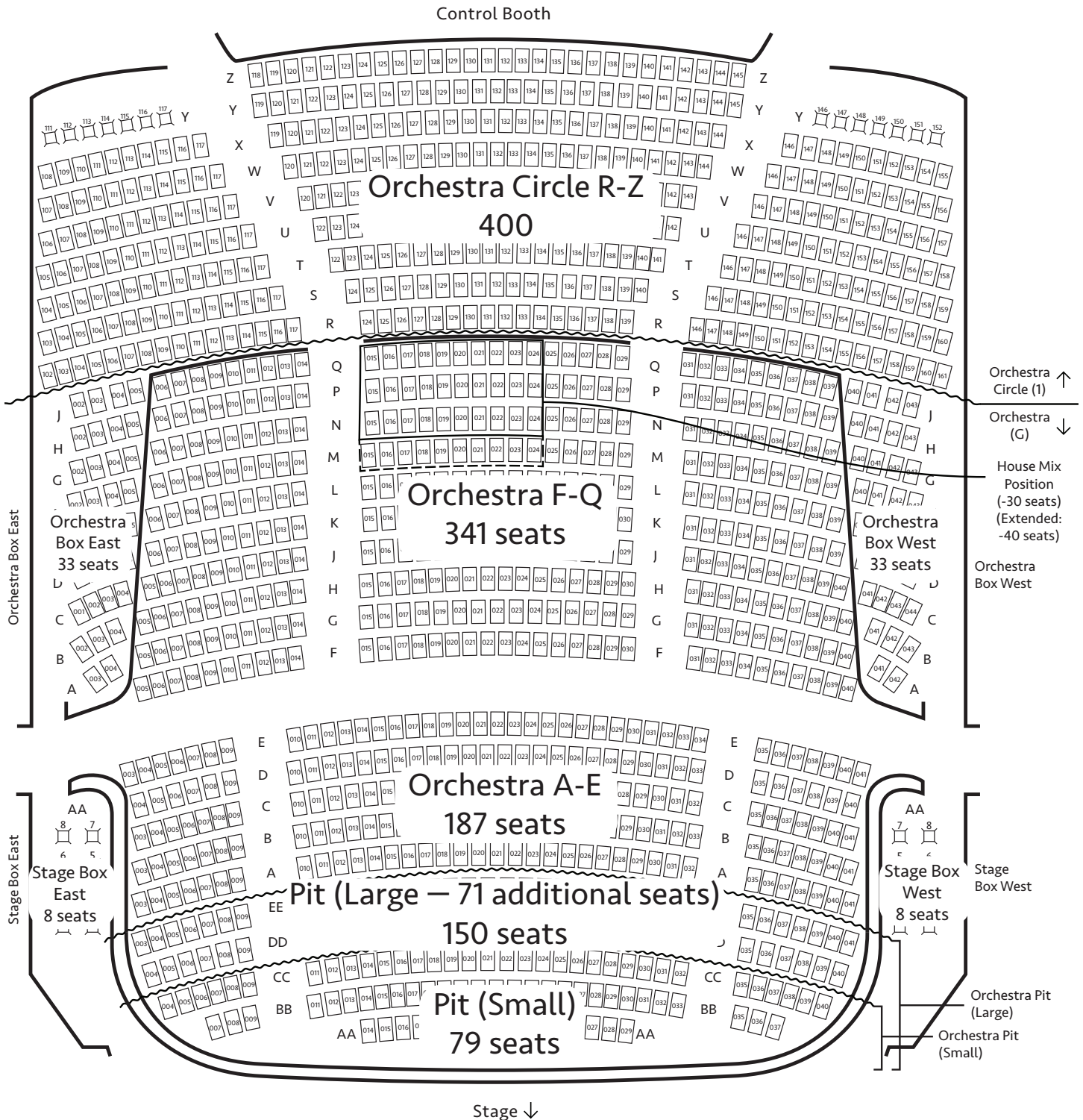
**Orchestra Pit (Large/Full)** Accommodates up to 90 musicians 150 seats

**Orchestra Pit (Small)** Accommodates up to 50 musicians

**Mixing/Sound Position** 79 seats

Mix Position seating will need to be removed before or during Load In labor calls. Approximate time to remove is 45 minutes with 4 stagehands. % 740 seats

# ORCHESTRA (G) & ORCHESTRA CIRCLE (1)

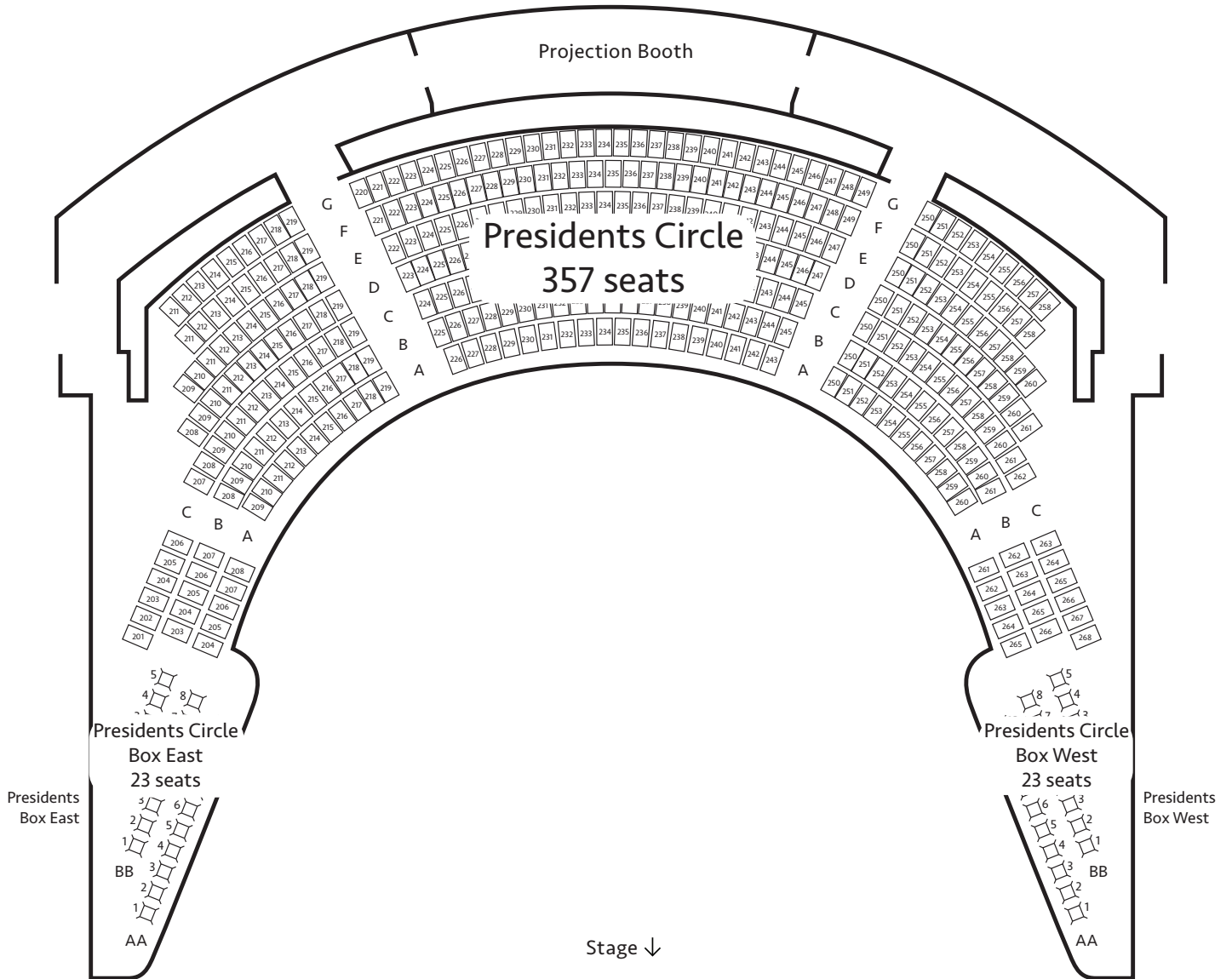


□ = Loose chair



Seats 004 and 040 of row CC have limited leg room.  
 Rows A and DD may have limited leg room depending on the configuration of the pit for a performance.

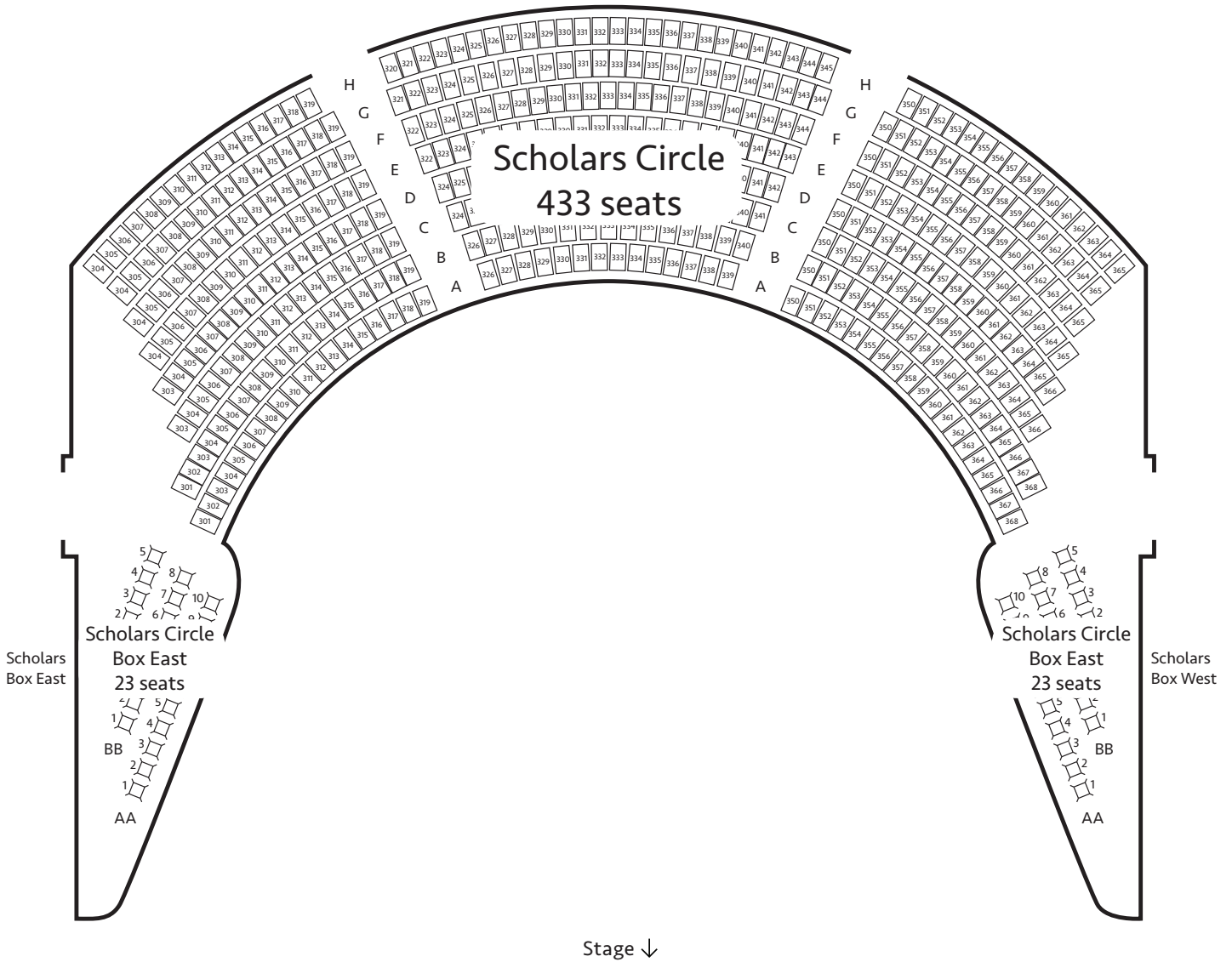
# PRESIDENTS CIRCLE (2)



☐ = Loose chair



# SCHOLARS CIRCLE (3)

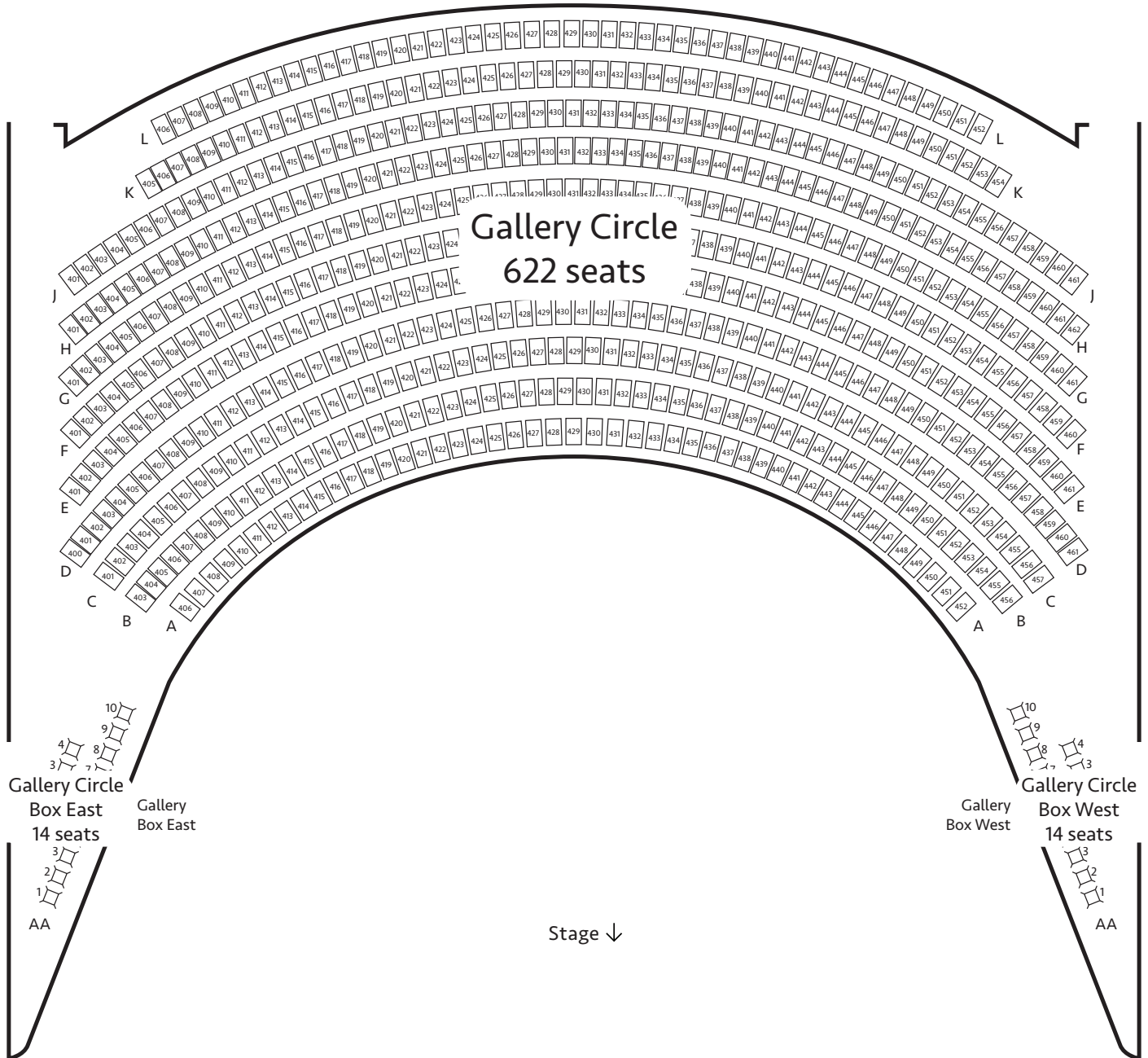


□ = Loose chair





# GALLERY CIRCLE (4)



☐ = Loose chair



Row L of Gallery Circle is best for patrons 5 foot 6 inches or taller for the best possible viewing experience. Seat bottoms in Row L are thicker to maintain sightlines.

# STAGE SPECIFICATIONS

## STAGE & PROSCENIUM

<b>Stage Depth</b> (Plaster line to back wall)	39'6"	12.0 m
<b>Additional Upstage Deadhang Space</b>	17'3"	5.3 m
<b>Stage Width</b> (Loading door to locking rail)	97'	29.6 m
<b>Proscenium Width</b>	60'	18.3 m
<b>Proscenium Height</b> (Maximum)	43'5"	13.2 m
<b>Proscenium Height</b> (Minimum)	33'5"	10.2 m

## ORCHESTRA PIT

(Small)

<b>Length</b>	68'	20.7 m
<b>Width on Center</b>	16'2"	4.9 m
<b>Width at Ends</b>	10'11"	3.3 m
<b>Pit Floor to Stage</b>	7'9"	2.4 m
<b>Square Footage</b>	971'	296.0 m

## ORCHESTRA PIT

(Large)

<b>Length</b>	72'3"	22.0 m
<b>Width on Center</b>	22'8"	6.9 m
<b>Width at Ends</b>	17'8"	5.4 m
<b>Pit Floor to Stage</b>	7'9"	2.4 m
<b>Square Footage</b>	1,430'	435.9 m

## LOADING DOCK

<b>Truck Access</b>	2 bays with levelers & seals at stage level (Nominal 40' travel distance to stage door, 90' to center of stage)
<b>Stage Loading Door</b>	10' (3.0 m) Width 20' (6.1 m) Height

## MIX POSITION

<b>Width</b>	17'9"	5.4102m
<b>Length</b>	9'	2.7432m

# BACKSTAGE SPECIFICATIONS

## PIANOS

Essex Upright 1

Steinway Grand  
Model D 1

## LAUNDRY

Washers 2

Dryers 2

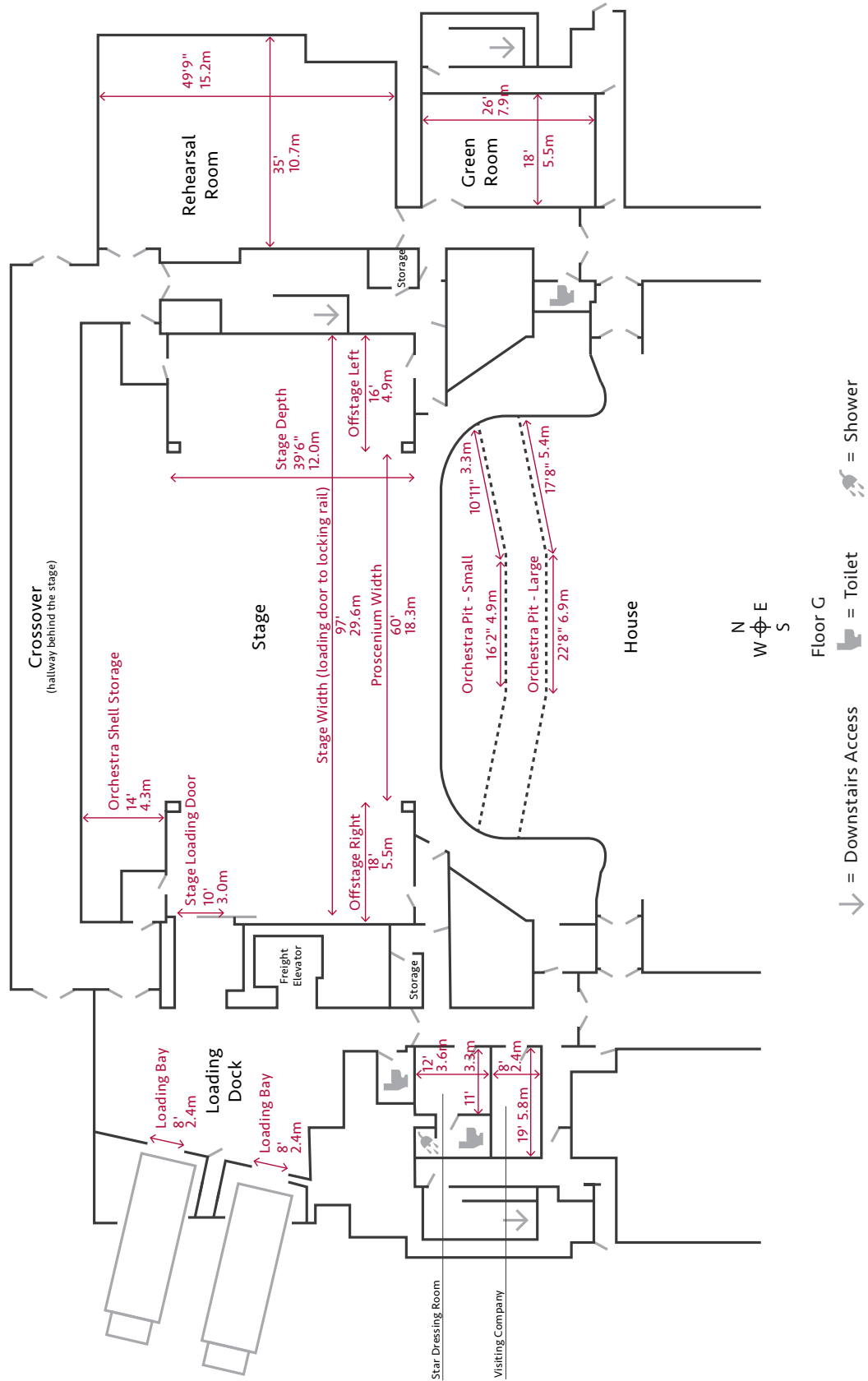
Garment Racks 12

Steamers 2

Irons 4

Ironing Boards 4

# NORTHROP BACKSTAGE GROUND LEVEL



# BACKSTAGE ARTIST FACILITIES

## GROUND LEVEL

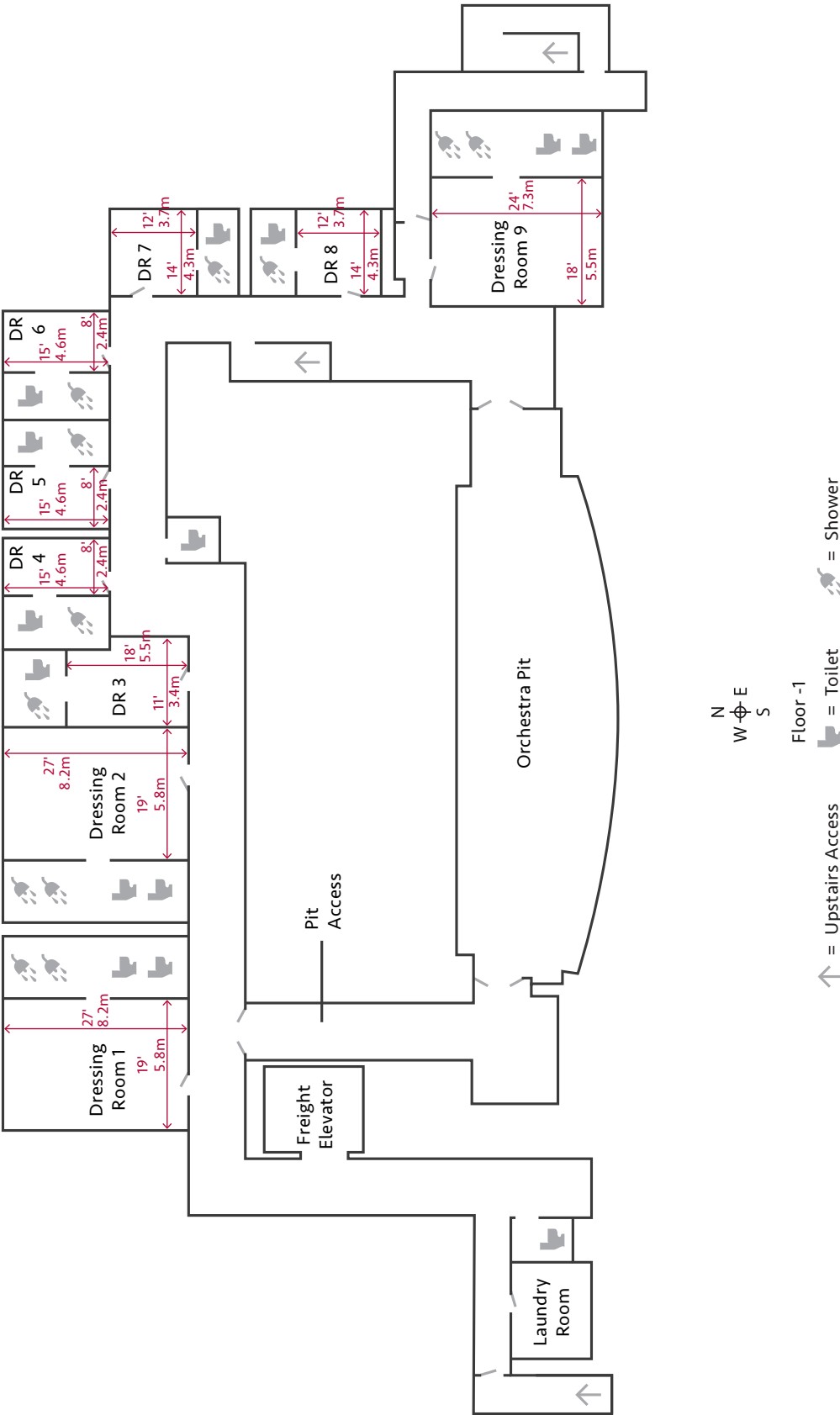
	Dimensions			
Rehearsal Room	49'9" x 35'	15.2 m x 10.7 m		
Green Room	26' x 18'	7.9 m x 5.5 m		
			Makeup Stations	Showers
Star Dressing Room	12' x 11'	3.7 m x 3.4 m	1	1

## LOWER LEVEL

### Dressing Rooms

<b>1</b>	27' x 19'	8.2 m x 5.8 m	18	2
<b>2</b>	27' x 19'	8.2 m x 5.8 m	19	2
<b>3</b>	18' x 11'	5.5 m x 3.4 m	1	1
<b>4</b>	15' x 8'	4.6 m x 2.4 m	4	1
<b>5</b>	15' x 8'	4.6 m x 2.4 m	4	1
<b>6</b>	15' x 8'	4.6 m x 2.4 m	4	1
<b>7</b>	14' x 12'	4.3 m x 3.7 m	2	1
<b>8</b>	14' x 12'	4.3 m x 3.7 m	2	1
<b>9</b>	24' x 18'	7.3 m x 5.5 m	18	2

# NORTHROP BACKSTAGE LOWER LEVEL



# BACKSTAGE INTERNET ACCESS

## CAMPUS WIFI

(Open Access)

**SSID** UofMGuest

A splash page will pop up requiring acceptance of the Terms and Conditions.

## BACKSTAGE WIFI

(Password Protected)

**SSID** UofM

**Username** north269

**Password** C&L#123a

## WIRED ACCESS

(Available in Production Office\*)

Open access is available through a Northrop router via DHCP. All touring company equipment will gain access through the Northrop router.

To connect to the wired internet:

- Plug Ethernet cable into a LAN port on the Northrop router
- Plug the other end of the Ethernet cable into the internet port of your router or device (LAN ports will not work on most routers)
- Enabling DHCP is recommended, please check to make sure your device is set to acquire its IP address using DHCP
- DO NOT plug your router/device directly into the wall jack

\*Wired network access in other rooms is available upon request

# LINESET SCHEDULE

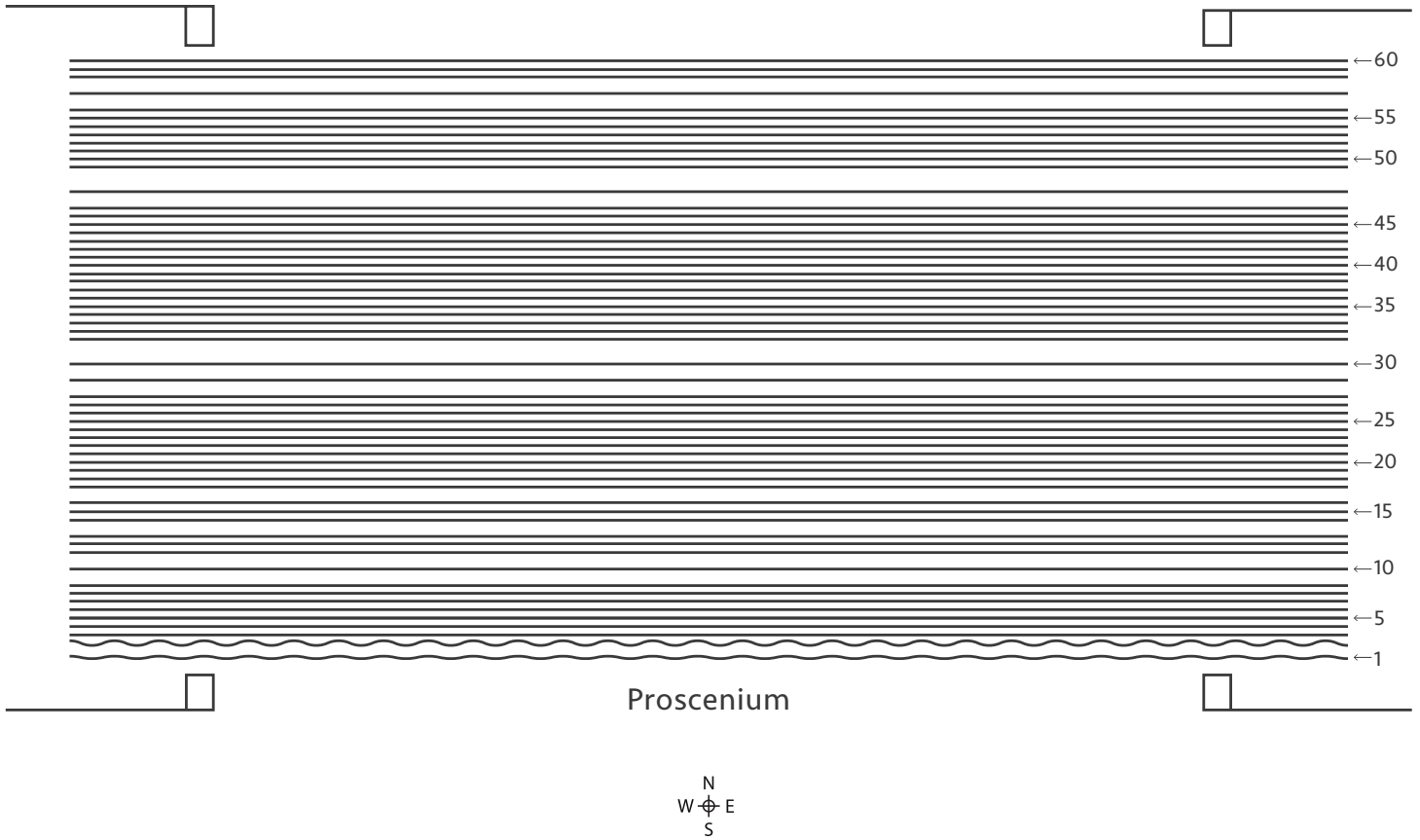
	40'	12.19 m	<b>Back Wall</b>	26	17'4"	5.28 m	
60	38'10"	11.83 m		25	16'10"	5.13 m	
59	38'4"	11.68 m		24	16'4"	4.97 m	
58	37'10"	11.63 m		23	15'10"	4.82 m	
57	36'10"	11.22 m		22	15'4"	4.67 m	
56	35'10"	10.92 m		21	14'10"	4.52 m	
55	35'4"	10.76 m		20	14'4"	4.36 m	
54	34'10"	10.61 m		19	13'10"	4.21 m	
53	34'4"	10.46 m		18	13'4"	4.06 m	
52	33'10"	10.31 m		17	12'10"	3.91 m	
51	33'4"	10.16 m		16	11'10"	3.60 m	
50	32'10"	10.00 m		15	11'4"	3.45 m	
49	32'4"	9.85 m		14	10'10"	3.30 m	
48	30'10"	9.39 m	<b>Orch. Ceiling N/A</b>	13	9'10"	2.99 m	
47	29'10"	9.09 m		12	9'4"	2.84 m	
46	29'4"	8.94 m		11	8'10"	2.69 m	
45	28'10"	8.78 m		10	7'10"	2.38 m	<b>Orch. Ceiling N/A</b>
44	28'4"	8.63 m		9	6'10"	2.08 m	
43	27'10"	8.48 m		8	6'4"	1.93 m	
42	27'4"	8.33 m		7	5'10"	1.77 m	
41	26'10"	8.17 m		6	5'4"	1.63 m	
40	26'4"	8.02 m		5	4'10"	1.47 m	
39	25'10"	7.87 m		4	4'4"	1.32 m	
38	25'4"	7.72 m		3	3'10"	1.16 m	<b>1st G.P. Lineset (limited use)</b>
37	24'10"	7.56 m		2	3'4"	1.01 m	<b>Main Curtain</b>
36	24'4"	7.41 m	<b>Mid Stage Traveler N/A</b>	1	2'4"	0.71 m	<b>Teaser</b>
35	23'10"	7.26 m					<b>Fire Curtain</b>
34	23'4"	7.11 m		0	0'	0 m	<b>Plaster Line</b>
33	22'10"	6.95 m					
32	22'4"	6.80 m					
31	21'10"	6.65 m					
30	20'4"	6.19 m					
29	19'4"	5.89 m	<b>Orch. Ceiling N/A</b>				
28	18'4"	5.58 m					
27	17'10"	5.43 m					

<b>Proscenium Opening</b>	60' (18.3 m)
<b>High Trim</b>	68'7" (20.9 m)
<b>Arbor Cap</b>	2,380 lbs (1,079 kg)
<b>Pipe Length</b>	78' (23.7 m)



# LINESET SCHEDULE



## SOFT GOODS

	QUANTITY	WIDTH x HEIGHT	
<b>House Curtain</b> (Maroon)	1 pair	40' x 33'2"	12.2 m x 10.1 m
<b>Valance</b> (Maroon)	1	78' x 26'2"	23.8 m x 8.0 m
<b>Legs</b>	5 pairs	20' x 30'	6.1 m x 9.1 m
<b>Borders</b>	6	78' x 12'	23.8 m x 3.7 m
<b>Scrim</b> (Black & White)	2	78' x 25'	23.8 m x 7.6 m
<b>Mid-Stage Traveler</b>	1 pair	78' x 24'5"	23.8 m x 7.4 m
<b>Side Tabs</b> (Stage Right)	4	12' x 20'	3.7 m x 6.1 m
<b>Side Tabs</b> (Stage Left)	4	12' x 30'	3.7 m x 9.1 m
<b>Plastic Cyc</b>	1	78' x 25'	23.8 m x 7.6 m
<b>Fabric Cyc</b>	1	78' x 25'	23.8 m x 7.6 m
<b>Full Blackout</b>	1	78' x 30'	23.8 m x 9.1 m
<b>Split Blackout</b>	1	78' x 30'	23.8 m x 9.1 m

# RIGGING

<b>Battens</b>	58 (Ladder battens)	
<b>Batten Length</b>	78'	23.77 m
<b>In Trim</b>	3'10"	1.016 m
<b>Out Trim</b>	68'7"	20.90 m
<b>Batten Locations</b>	75 (17 obstructed/not installed)	
<b>Clearance between Battens</b>	6"	0.1524 m
<b>Lineset Live Capacity</b>	2,070 lbs	938.9362 kg
<b>Grid Height</b> (From Stage)	71'	21.6408 m

Rear stage allows for dead hang rigging from 6 rigging beams 10' on center.  
Rear stage rigging height is 32'.

## PROSCENIUM ARCH

There are 25 rigging points, each 38.5 inches apart.

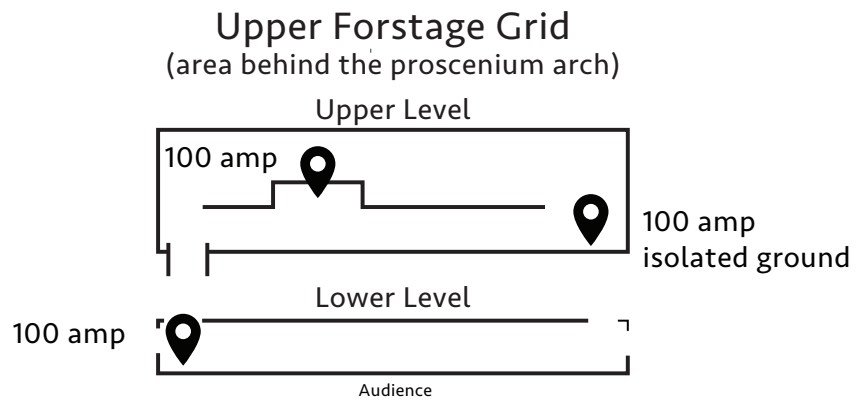
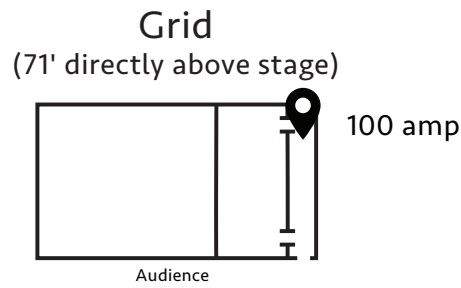
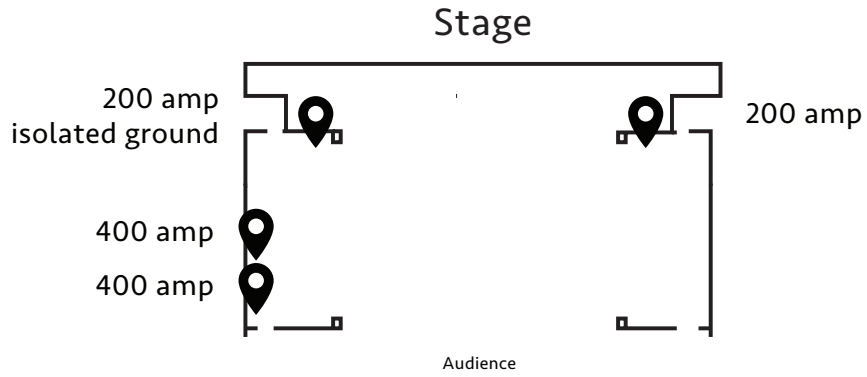


Photo by Patrick O'Leary

# DISCONNECTS

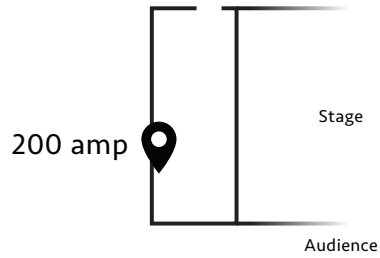
<b>Upstage Left</b> (isolated ground)	200 amp 208 volt 3 phase
<b>Upstage Right</b>	200 amp 208 volt 3 phase
<b>Downstage Right</b>	400 amp 208 volt 3 phase
<b>Downstage Right</b>	400 amp 208 volt 3 phase
<b>Stage Left Gallery</b>	200 amp 208 volt 3 phase
<b>Rehearsal Room</b>	200 amp 208 volt 3 phase
<b>Loading Dock</b> (shore power)	200 amp 208 volt 3 phase
<b>Loading Dock</b> (shore power isolated ground)	100 amp 208 volt 3 phase
<b>Upper Forestage Grid</b> (isolated ground)	100 amp 208 volt 3 phase
<b>Upper Forestage Grid</b>	100 amp 208 volt 3 phase
<b>Grid</b>	100 amp 208 volt 3 phase

# DISCONNECT LOCATIONS

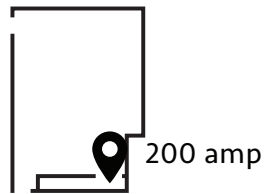


# DISCONNECT LOCATIONS

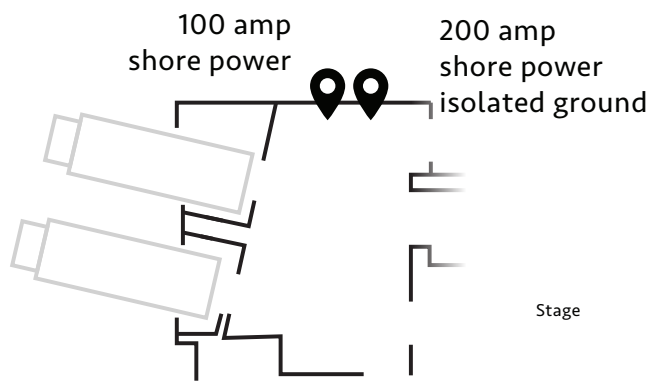
Stage Right Gallery  
(above stage right)



Rehearsal Room



Loading Dock



# LIGHTING

## CONSOLE

ETC Eos Ti – 4000 Channel  
Capable of Mid-House Tech Table

## CONTROL/DMX

ETC Net3  
12 – Two Port Gateways (DMX in or out)  
In-House Power on Universes 1 and 2

## DIMMERS

(ETC Sensor)

Type	Quantity
2.4k Performance	506
6.0k Performance	16
120v Non-Dim	48
208v Non-Dim	48

# LIGHTING INVENTORY

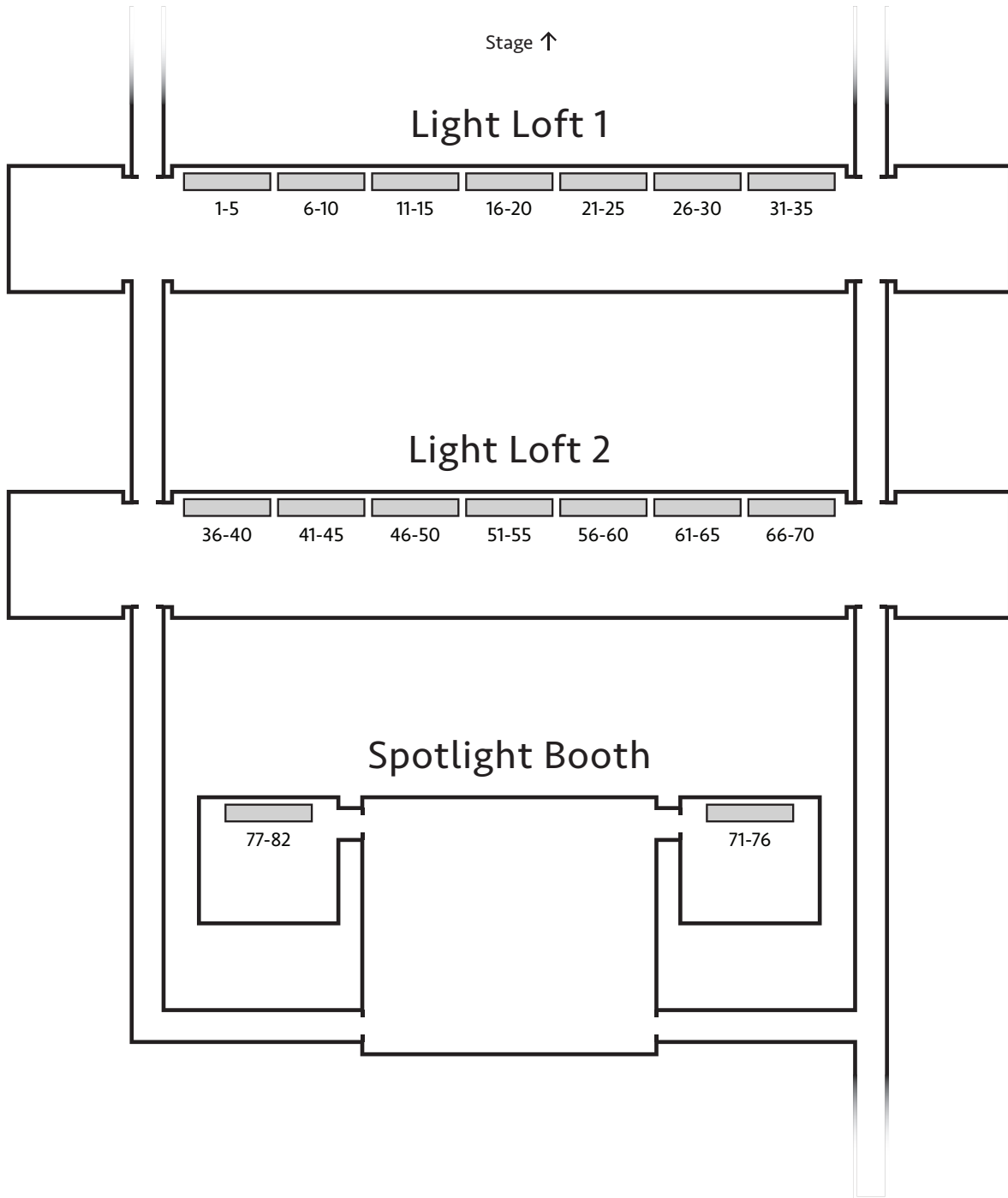
<b>TYPE</b>	<b>QUANTITY</b>
<b>Source Four 5° 750 Watt</b>	36
<b>Source Four 10° 750 Watt</b>	34
<b>Source Four 14° 750 Watt</b>	6
<b>Source Four 19° 750 Watt</b>	84
<b>Source Four 26° 750 Watt</b>	72
<b>Source Four 36° 750 Watt</b>	60
<b>Source Four 50° 750 Watt</b>	24
<b>Source Four PAR 575 Watt</b>	8
<b>Birdies</b>	12
<b>Cyc Lights, 3 cell</b> (Aurora, 1000 watts per cell)	12
<b>Ground Row, 3 cell</b> (Aurora, 1000 watts per cell)	12
<b>8" Selecon Fresnel 2KW</b>	42
<b>PAR 64 1k</b>	60
<b>Followspots</b> (3K Lycian)	4

Some additional Source Four barrels available upon request.



# STAGE PIN CONNECTIONS

82 circuits available



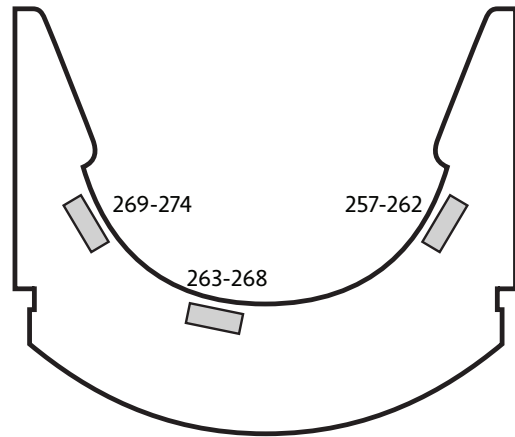
Floor 5 (Ceiling of the House)



# STAGE PIN CONNECTIONS

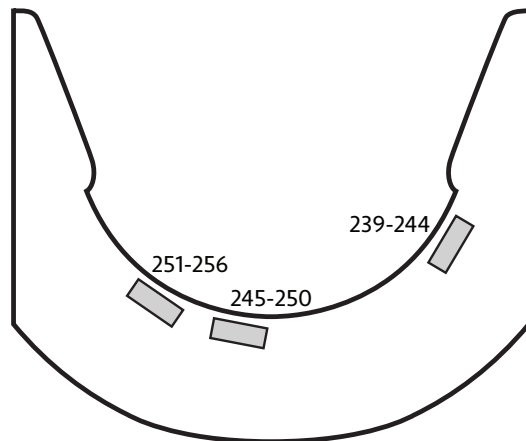
## PRESIDENTS CIRCLE (2)

18 circuits available



## SCHOLARS CIRCLE (3)

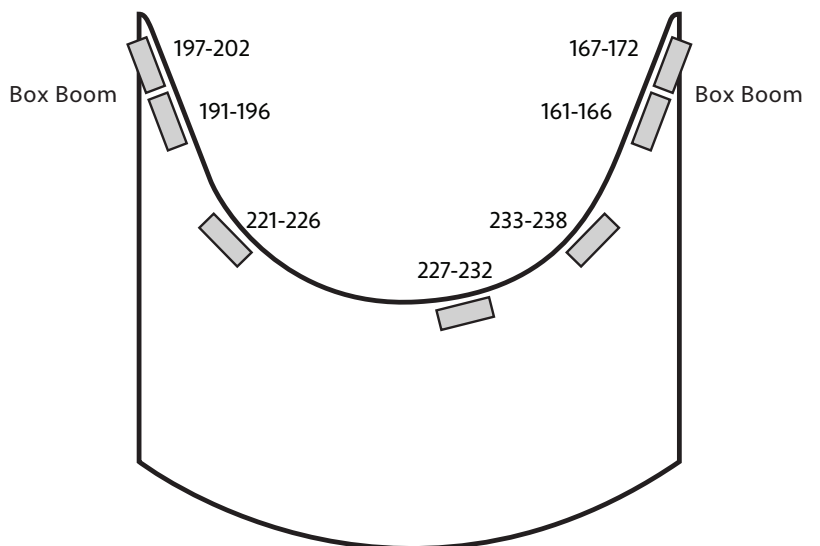
18 circuits available



## GALLERY CIRCLE (4)

18 circuits available

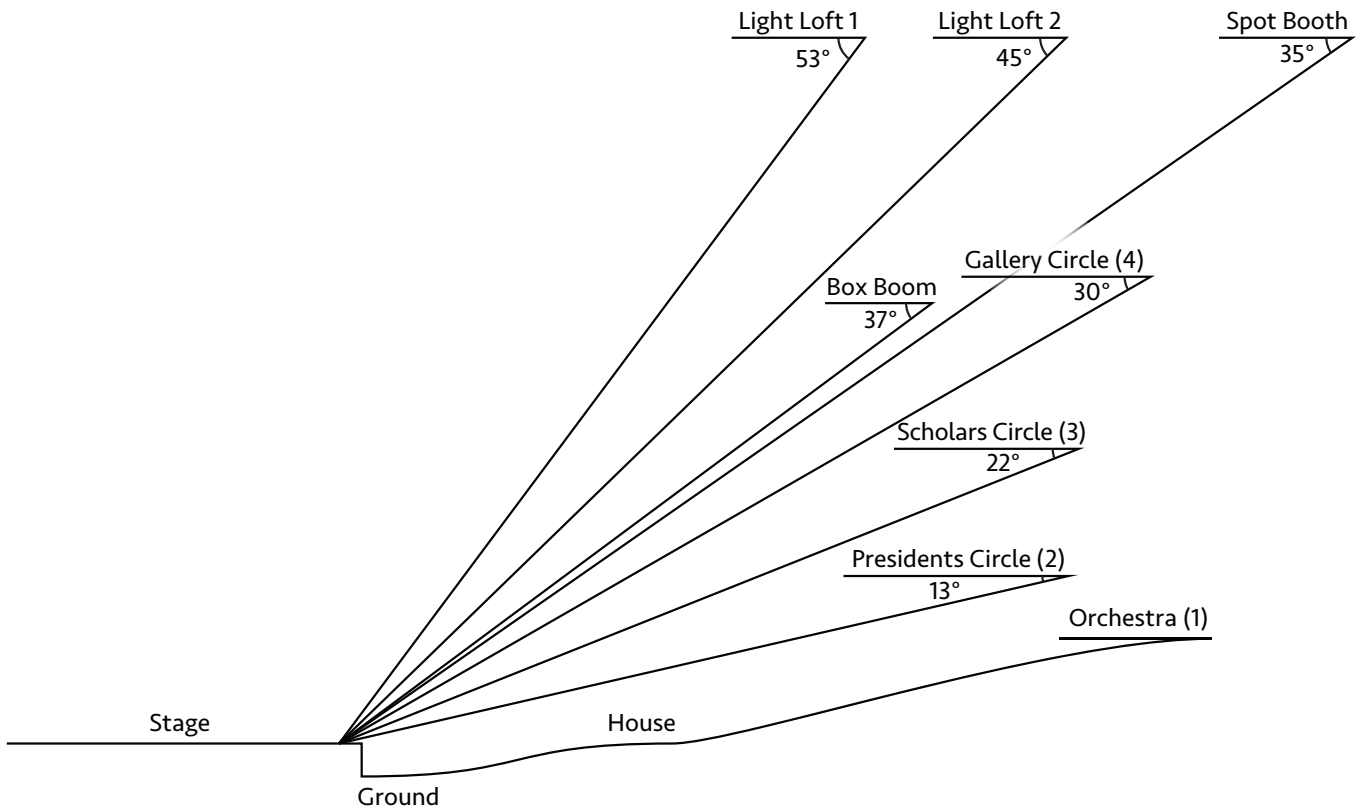
12 circuits per Box Boom



# LIGHTING ANGLES & DISTANCE TO STAGE

## DISTANCE TO STAGE

Light Loft 1	98'	29.9 m
Light Loft 2	113'	34.4 m
Spot Booth	138'	42.0 m
Box Boom	82'	25.0 m
Gallery Circle (4)	104'	31.7 m
Scholars Circle (3)	89'	27.1 m
Presidents Circle (2)	84'	25.6 m



# SOUND

## RACKS AND STACKS RENTAL PACKAGE

<b>JBL Vertec 4888</b>	18 (9 down per side)
<b>JBL Vertec 4880 Subs</b>	8 (4 per side, on ground)
<b>JBL Vertec 4886</b> (main center array)	10
<b>JBL Vertec 4886</b> (balconies L/R/C)	15
<b>Meyer UPQ-2P</b> (front and side fill)	6
<b>Renkus Heinz TRX 61</b> (main floor front fill)	7

## AMPLIFIERS, PROCESSING, CONTROL

<b>Type</b>	<b>Quantity</b>
-------------	-----------------

<b>Crown IT 12000HD</b>	9
<b>Crown IT 9000HD</b>	11
<b>Crown CTS 1200</b>	4

**BSS London BLU Processing**

**Clear Com System**

\*House does not provide consoles or split snakes, monitor package or mic package.

## TOURING SOUND OPTIONS

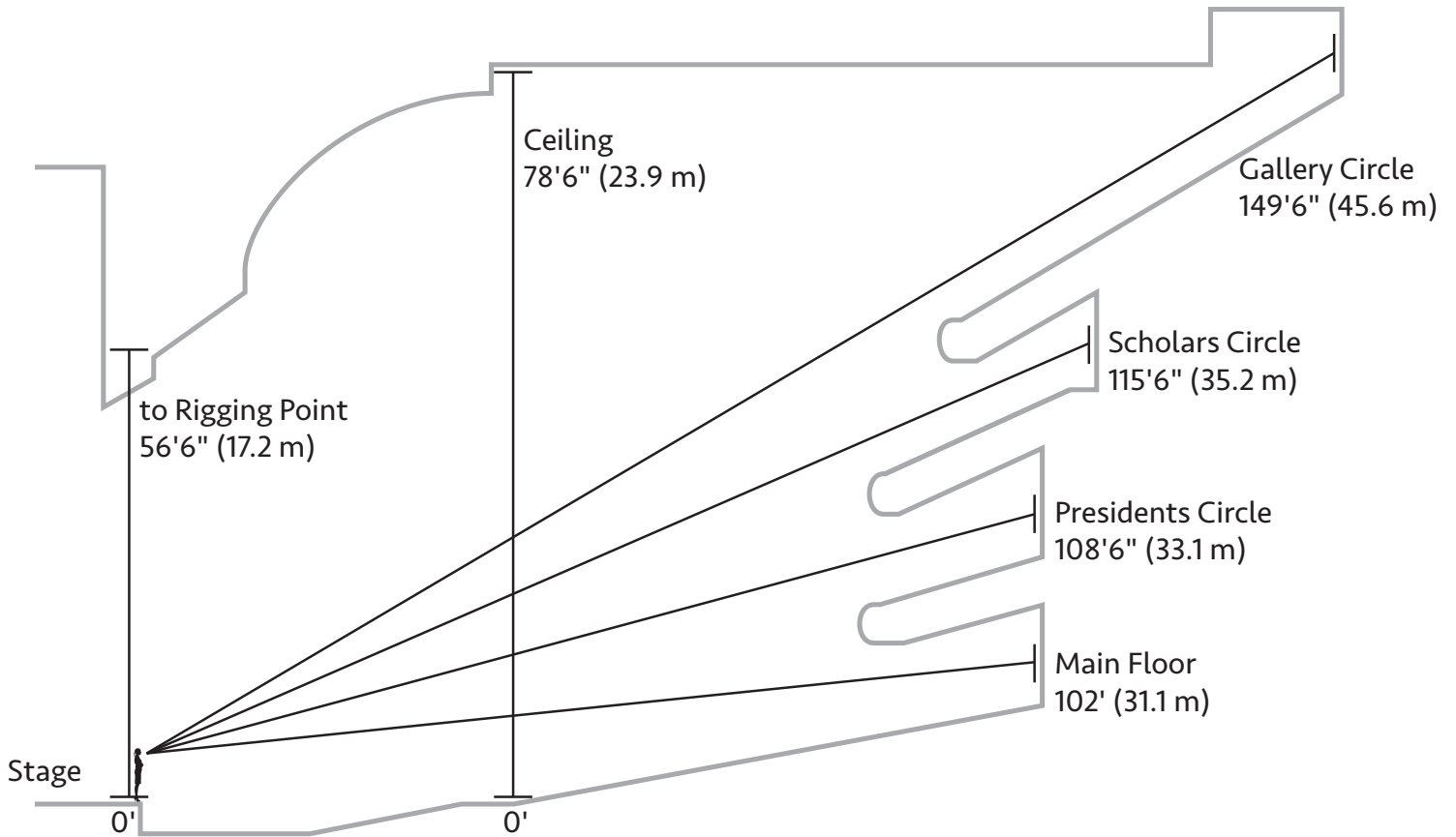
<b>Racks and Stacks Rental</b>	\$1000
<b>House PA System Removed and Restored</b>	\$500
<b>Tie into Upper Balcony Sound System</b>	\$200

Touring sound can also hang their sound system next to ours (see picture) for no charge.



# SOUND

## THROW DISTANCES



# VIDEO

## PROJECTION

Barco HDX-W20 Flex 20,000 Lumen WUXGA DLP Projector  
Barco TLD+(4.17-6.95: 1 WVXGA)(4.5-7.5: 1 SXGA+) Zoom Lens  
The Screen Works 12' x 21.25' Truss Frame Front Project Screen

## CONTROL

Barco PDS-902 3G Presentation Switcher/Scaler

## CAMERA, RECORDER, SIGNAL ROUTING

Sony BRCH700 HD 3CCDs P/T/Z Camera (FOH Position)  
Sony RMBR300 Remote Control Unit  
Sound Devices PIX270i Production Video/Audio Recorder  
Magenta Multiview VGA Transmitter/Receiver x2  
Extron HDMI Extender x1

# HOUSE FEATURES

## STAGE & PROSCENIUM

<b>Stage Depth</b> (plaster line to back wall)	39'6"	12.0 m
<b>Upstage Extension Depth</b>	17'3"	5.3 m

## HOUSE MIX POSITION

<b>Depth</b>	9'6"	2.9 m
<b>Width</b>	18'10"	5.7 m
<b>Distance to Proscenium</b>	68'	20.7 m
<b>Cable Pass</b> (Limited Access)	2 stage left, 1 stage right, 2 control booth	

## FOLLOW SPOT BOOTH

<b>Depth</b>	11'	3.3 m
<b>Width</b>	25' (7.6 m) window, 35' (10.7 m) room	
<b>Height</b>	8'11"	2.7 m
<b>Throw Distance</b>	140'	42.7 m
<b>Follow Spots</b>	4	

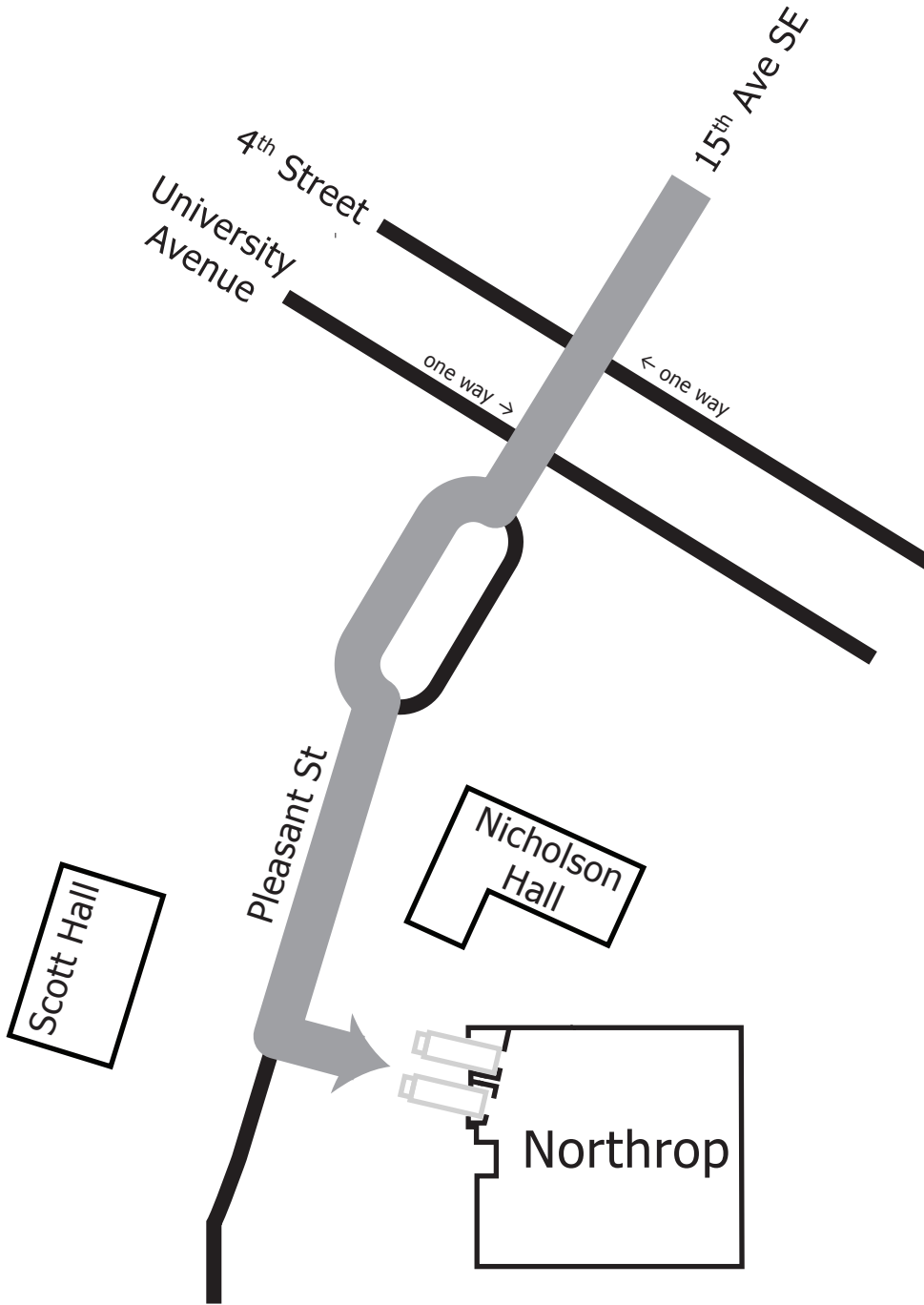
## CONTROL BOOTH

<b>Depth</b>	9'7"	2.9 m
<b>Width</b>	37'	11.2 m
<b>Height</b>	9'	2.7 m
<b>Throw Distance</b>	105'	32.0 m

## PROJECTION BOOTH

<b>Depth</b>	6'10"	2.1 m
<b>Width</b>	31'	9.4 m
<b>Height</b>	9'3"	2.8 m
<b>Throw Distance</b>	110'	33.5 m

# TRUCK DIRECTIONS TO LOADING DOCK

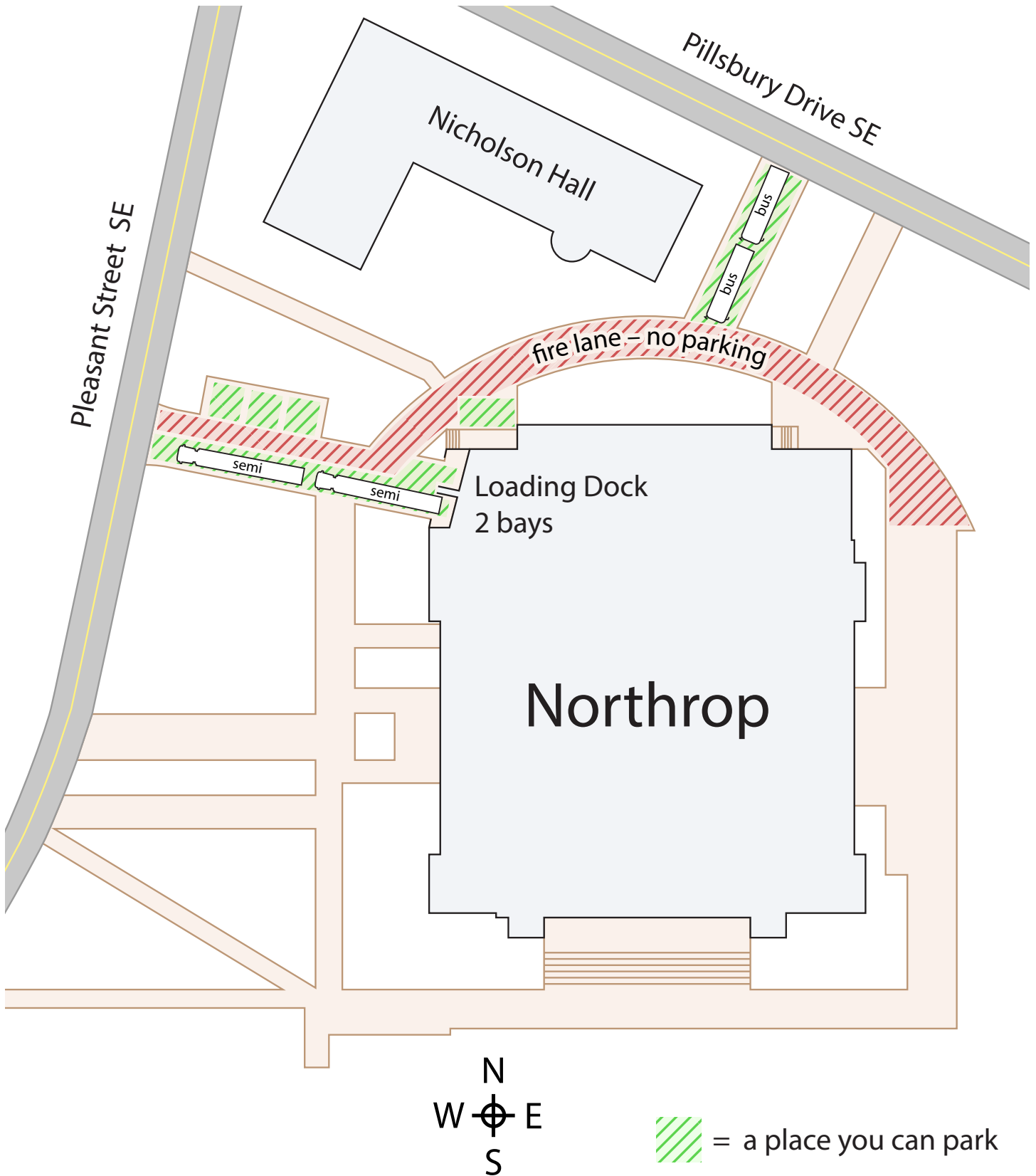


Trucks must enter on 15th Avenue South East.  
15th Avenue turns into Pleasant Street.



# TYPICAL LARGE VEHICLE PARKING PLAN

2 TRUCK 2 BUS



# OFFSITE PARKING

