# TECHNICAL SPECIFICATIONS





WILMINGTON, NC 02/13/2024





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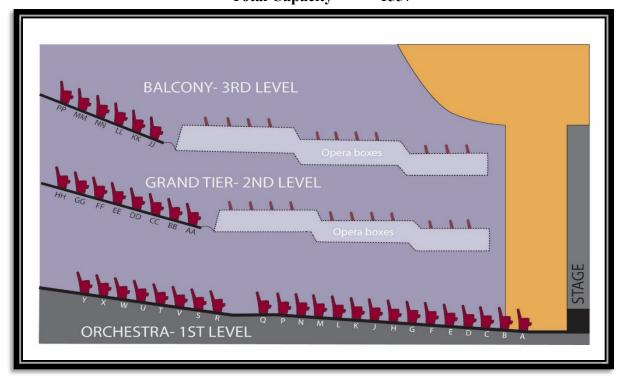


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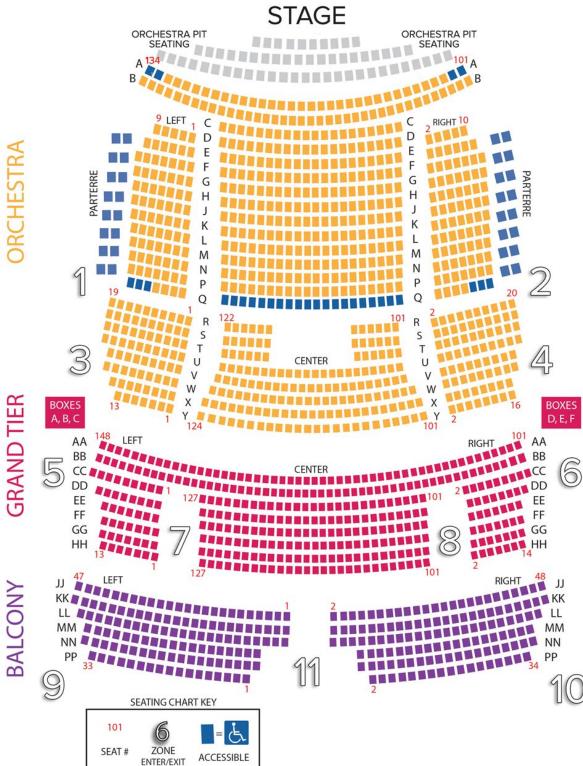


# **Performance Hall Seating Capacity**

Pit Seating	55
Orchestra	832
Grand Tier	350
Balcony	252
Box Seating	68
<b>Total Capacity</b>	1557





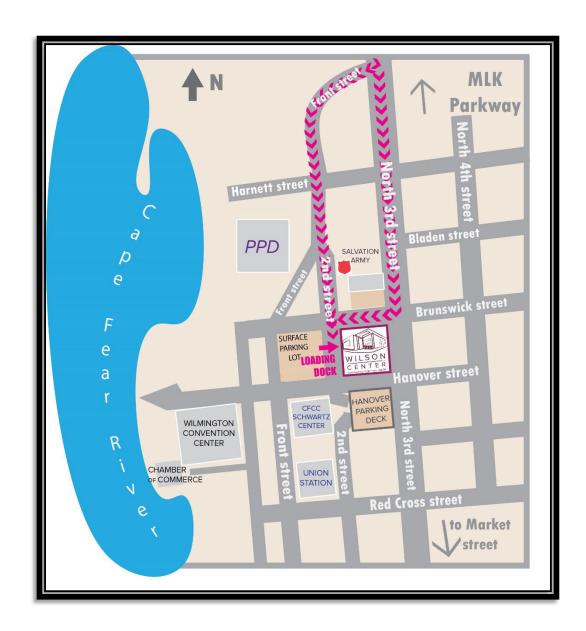




# **Directions to Fine Arts Center Loading:**

From I-40 take Martin Luther King Jr Dr. toward downtown. Continue on to 3<sup>rd</sup> Street toward downtown. Take a right on Brunswick St. Take the next left on 2<sup>nd</sup> St. the loading dock will be on the right.

# **MAP**





# **Oversize Vehicle Parking**

Advanced arrangements for oversized parking should be made prior to arrival. Street parking may be available but must be arraigned in advance with the approval of the Wilson Center Technical Director and the City of Wilmington Parking Enforcement.

2 tractor trailers may remain in the dock after unloading and remain in the docks for the remainder of the day, however, **no overnight parking is allowed at any time in the Wilson Center loading docks**. All trucks must be removed from the docks by the end of the work day.

Directions to the Truck Stop: Turn right out of the loading dock and take a right turn onto Brunswick Street. Take a left turn onto 3rd Street. Proceed ½ mile and make a left onto US 421 North. Cross over the Cape Fear River on the Isabella Holmes Bridge. Make a right turn at the first light and the truck stop will be on your right.

#### **BUSES**

There is accommodation for (1) tour bus in the loading dock. Passenger side pullouts cannot be utilized if the bus parks nose first in the dock. Driver side pullouts may or may not be deployed depending upon bus configuration. There is (1) 60 amp 3 Phase disconnect in the loading dock. There is (1) fresh water spigot available. There are no dump stations. Buses may not idle while parked in the loading dock. There is a Bus Parking Zone located on the east side of 2nd Street that can accommodate (2) tour buses. There is no shore power for these buses. All vehicles should park in the correct facing direction when parked in the Bus Parking Zone. Buses may not deploy slideouts on the driver's side when parked in the Bus Parking Zone. Buses may deploy passenger side slideouts in between the trees if possible, depending upon bus configuration.



#### **STAGE**

40'-10" deep x 87' 6" wide Overall Stage dimension Proscenium opening 49'-0"w x 30'-0"h Plaster Line to upstage wall (Depth) 40'-0" Plaster Line to last line set 38'-4" Plaster Line to apron edge 9'-0" Stage width (excl fly rail) 88'-6" Center Line to stage left wall 42'-8" Center Line to stage right wall 45'-10" Stage Right Wing Dimension 20' wide Stage Left Wing Dimension 14' wide Shell Storage 13'-0" deep x 21'-8" wide Grid height 70'-0"

# **ORCHESTRA PIT**

The orchestra pit is fitted with a Gala Systems Spiralift-Driven Lift. Pit platform is 10'-9" deep at center arcing to 3'-6" at ends x 51'-3" wide. When platform is at pit level, the orchestra pit is 16'-0" deep x 41'-3" wide .Orchestra pit is adjustable to all heights between pit level and stage level.

Pit Level is 8'-6" below Stage Level.

#### FLOOR CONSTRUCTION

Sprung, dark grey 3/8" Stageboard (HDPE2) surface over two (2) layers of 5/8" plywood on Robbins Bio-Channel Classic sleepers with integral stop blocks (18" centers)

#### **ORCHESTRA SHELL**

Wenger DIVA tower and ceiling system. Ten (10) 12' wide x 30' tall towers, and three (3) 12' deep ceiling panels with integrated lighting. Towers include flip-down reflectors at 18' designed to bring some sound energy back to orchestra. Largest effective usable area within shell is approximately 54' wide x 36' deep (from plaster line).

# **LOADING DOCK**

Covered enclosed loading dock can accommodate two (2) 53' trailers at a time. Loading dock doors cannot be closed unless the trailer is less than 45' long. Trailers back up onto 1 foot high ramps. Center of rear trailer axles should be set to 8' from rear of trailer to avoid striking overhead HVAC ducting. Both docks have a 6' mechanical leveler. Two trucks can be unloaded at once. ICC bar dock locks secure trailers when uncoupled from tractors.

Two (2) roll up doors 10' wide x 10' high lead from loading dock, into a 48' long x 30' wide storage/staging area, to one (1) 16' wide x 20' high roll up door onto the upstage right portion of the stage. Total distance from truck to stage is approximately 30' - 40'.



# GREEN ROOM/DRESSING ROOMS/WARDROBE ROOM

All support spaces are located at stage level behind stage

4-Person: Two (2) 4-person or star dressing rooms with dedicated toilets, sinks and

showers.

14-Person: Three (3) chorus dressing rooms with dedicated sink. Rooms share two

(2) restroom facilities on common corridor, each with 4 sinks, toilets, and

shower.

Green Room: One (1) 470sf green room with small kitchenette located off of dressing

room corridor backstage.

Wardrobe: One (1) 400sf wardrobe / laundry room with two each washers and dryers,

and laundry sink.





# STAR DRESSING ROOM (2)







# **MIX POSITION**

A house mix position is located just behind the cross aisle approximately 65' from the front of the stage. The position is just forward of the balcony. The size of this area is 9'0" deep x 15'-0"wide. Cables from stage pass under house through the plenum to a trap door in the house right rear corner of this area.





# **RIGGING SYSTEM**

Rigging system consists of 49 single purchase counterweight line sets with Schedule 40 1.5" 66' long battens, each with 4' batten extensions. Lineset capacity is 1650# each. Arbors are loaded at the Loading Bridge at grid height or Midbridge at 35' over stage height. Locking rail is located stage left. There is a Midbridge also located stage right 35' over stage with a 40 position pin rail for cable picks

#### **GRID**

Grid is comprised of 1" x 3" C channel laid leg down over I beams with a 3" gap between each channel

Grid Pipe: (20) pieces of 4" Schedule 80 steel pipe, 3'-0" long each.

#### FRONT OF HOUSE RIGGING POSITIONS

There are (4) 12" I beams accessible through trap doors in the low catwalk subway grate to accommodate front of house truss hanging positions. I beams run parallel to the center line and are located at 7'-0" Stage Left and Stage Right of Center and 21'-0" Stage Left and Stage Right of Center, 42'-0" above the stage floor. Beams are 12'-0" long and begin 4'-0" from the Plaster Line.

#### **Lineset Schedule**

SET	POSITION	DESCRIPTION	NOTE
1	1'-0"	66' X 16'	MAIN VALENCE
2	1'-8"	34'6" X 34' 2 PANELS TRACKED	MAIN DRAPE
3	2'-4"		
4	3'-0"	HARD ELECTRIC	1 <sup>ST</sup> ELECTRIC (2000# CAPACITY)
5	4'-4"		
6	5'-0"	12' X 32'	SL LEG
7	5'-8"	34'6" X 32' 2 PANELS TRACKED	DS BLACK TRAVELER
8	6'-4"	12' X 32'	SR LEG
	7'-0"	SHELL	COUNTERWEIGHT ASSIST
10	8'-4"		
11	9'-8"		



12	10'-4"	66' X 16'	BORDER
13	11'-0"	12' X 32'	SL LEG
14	11'-8"	12' X 32'	SR LEG
15	12'-4"	SOFT ELECTRIC	2 <sup>ND</sup> ELECTRIC
16	13'-0"		
17	13'-8"		
18	14'-4"	66' X 16'	BORDER
19	15'-0"	12' X 32'	LEGS
20	15'-8"		
21	16'-4"	SOFT ELECTRIC	WORKLIGHTS/2A ELECTRIC
22	17'-0"		
23	17'-8"	66' X 16'	BORDER
24	18'-4"	SHELL	COUNTERWEIGHT ASSIST
25	19'-8"	34'6" X 32' 2 PANELS TRACKED	MID-STAGE TRAVELER
26	21'-0"		
20	21-0		
27	21'-8"	SOFT ELECTRIC	3 <sup>RD</sup> ELECTRIC
28	22'-4"		
29	23'-0"		
30	23'-8"	66' X 16'	BORDER
31	25'-0"	12' X 32'	LEGS
32	25'-8"		
33	26'-4"		
34	27'-0"		
35	27'-8"		
36	28'-4"	SOFT ELECTRIC	4 <sup>TH</sup> ELECTRIC
37	29'-0"	66' X 16'	BORDER
38	29'-8"	SHELL	COUNTERWEIGHT ASSIST
39	31'-0"		
40	32'-4"		ELECTRIC 4A
41	33'-0"		
42	33'-8"		
43	34'-4"	66' X 16'	BORDER
44	35'-0"	20' X 32' TRACKED LEGS	UPSTAGE TRAVELER



45	35'-8"	SOFT ELECTRIC	CYC ELECTRIC
46	36'-4"		
47	37'-0"		
48	37'-8"		
49	38'-4"	64' X 30' LENO	CYCLORAMA

• 2 - 64' X 30' Black sharkstooth scrim are available. Please contact Technical Director for more information.

# **ELECTRICS / LIGHTING SYSTEM**

#### **POWER**

Available Lighting Power consists of two (2), 400A Company Switches located at Stage Right to accommodate dimming and power distribution devices for touring applications. Each Company Switch has a connection chamber with shunt-trip access door, and utilizes cam-lock type connectors made up of A phase, B Phase, C Phase, Neutral, Neutral, and Reverse Ground.

#### INSTALLED PERFORMANCE DIMMING AND CONTROLS

The Performance Dimming and Controls system is comprised four (4) Electronic Theatre Controls (ETC) Sensor3 Dimmer Racks, and one (1) ETC Sensor SineWave rack. In addition, there are (2) 40-circuit Lyntec RPC DMX-Controlled Relay panels are hardwired to various locations in the theatre.

Circuit distribution is a mix of 6-circuit Veam/Socapex 19-pin connectors and single circuit 20A Stagepin connectors on outlet boxes and connector strips. (408) Performance Circuits are available for 120v dimmed loads. (30) Performance circuits are hard-wired DMX-Controlled relays.

The control system is a network-based system, utilizing ETC Net3/ACN, RDM, and DMX. Portable ACN Gateways may be plugged into any available lighting network port location, allowing conversion of ACN to DMX. The network is capable of powering IEEE 802.3 standard compliant "Power Over Ethernet" Devices (P.O.E.)

#### **CIRCUIT SCHEDULE:**

- 1-48: Onstage Wall Boxes
- 49-85: 1<sup>st</sup> Electric (Hard Electric w/ Connector Strip)
- 86-205: Onstage Gallery Catwalks
- 206-229: Tormentors/Box Booms
- 230-343: FOH Catwalks



- 344-377: Balcony Rails/Under Balcony Ceiling Slot
- 377-384: Orchestra Pit
- 385-408: Orchestra Shell (Sine Wave Dimmers)
- 409-438: Dimmable House Lights
- 439-467: Hard Wired Relays
- 468-Above: Control Switchable and DMX-Dimmable Architectural Lighting

# PERFORMANCE LIGHTING FIXTURES AND ACCESSORIES

The Performance Lighting Fixtures and Accessories Package is a hybrid package of both conventional and LED performance fixtures.

#### PERFORMANCE LIGHTING FIXTURES

Ellipsoidals @750w:

- (13) 5\* ETC Source4
- (32) 10\* Source4
- (21) 14\* Source4
- (47) 19\* Source4
- (62) 26\* Source4
- (60) 36\* Source4
- (32) 50\* Source4
- (52) 70\* Source4

#### Fresnels @750w

• (11) ETC Source4 Fresnel

#### PARs @750w

• (70) ETC Source4 PAR w/ full set lenses

#### LED and Moving Fixtures:

- (38) Selador Classic Vivid-R 11" w/ yoke & trunions
- (16) Chauvet Rogue R3X Wash
- (10) Chauvet Rogue R2 Spot
- (10) Chauvet Rogue R2 Beam
- (10) Altman Spectra Cyc 200
- (15) ETC Luster Source 4 LED

#### Hazer

• Unique Hazer 2.0

#### Misc. Fixtures:

• (6) The Light Source LED Worklight



• (30) Broadway Music Stand Lights

# Followspots @ 2000w

- (2) Strong Super Trouper 2k w/ Tripod Stand
- (2) Tango 2K MSR FF

#### PERFORMANCE LIGHTING ACCESSORIES

- (11) Iris for ETC Source4
- (26) 18" Sidearms
- (8) 10' Booms w/ 50# Bases
- (8) 4-Rung Ladders
- Full complement of Top Hats, Half Hats, Donuts, Color Frames, Template Holders, C-Clamps, and Barndoors.

#### PERFORMANCE LIGHTING POWER CABLE

#### Multicable:

- (13) 10' 6-Circ Veam/Socapex 19-pin Multicable Jumper
- (4) 25' 6-Circ Veam/Socapex 19-pin Multicable Jumper
- (6) 50' 6-Circ Veam/Socapex 19-pin Multicable Jumper
- (26) 75' 6-Circ Veam/Socapex 19-pin Multicable Jumper
- (6) 100' 6-Circ Veam/Socapex 19-pin Multicable Jumper
- (15) Fanout 6-Circ Veam/Socapex 19-pin Multicable to Stagepin
- (19) Breakout 6-Circ Veam/Socapex 19-pin Multicable to Stagepin

# Stagepin Cable:

- (46) 20A Stagepin Twofer
- (5) 5' Stagepin Single Circuit Jumper Cable
- (24) 10' Stagepin Single Circuit Jumper Cable
- (23) 25' Stagepin Single Circuit Jumper Cable
- (2) 50' Stagepin Single Circuit Jumper Cable
- (7) 75' Stagepin Single Circuit Jumper Cable
- (10) 100' Stagepin Single Circuit Jumper Cable

# PERFORMANCE LIGHTING DATA CABLE AND DMX DEVICES

#### DMX/Data Devices:

- (1) ETC Gio 2000 Lighting Console w/ 2x20wing and RFR
- (4) Pipe Mount 1x5 DMX OptoIsolator
- (9) 4-Port Net3/CAN/RDM/DMX Gateways
- Full complement of Network Data & 5-Pin DMX Cables.



#### **GELS AND TEMPLATES**

The Cape Fear Community College Humanities and Fine Arts Center does not provide color gels or lighting templates (gobos). We can provide them at cost. Advance notice of at least three weeks is necessary to insure delivery.

# **SOUND AND COMMUNICATIONS SYSTEMS**

#### **POWER**

Sound power is an isolated ground / isolated power system with Orange colored convenience outlets throughout the facility. In addition a 200a isolated ground company switch (fed from the same panel) can be found downstage left.

#### **CONSOLES AND SNAKES**

- 1-Yamaha M7CL-48ES with a meter bridge and 3 portable 18x8 stage boxes.
- 1-Yamaha QL5
- 1-Yamaha YHM-RIO3224-D2 High Performance I/O Rack with 32 Analog inputs and 8 Digital Outputs
- 2-Yamaha YMH-RIO1606-D2 High Performance I/O Rack with 16 Analog Inputs and 8 Digital Outputs
- 1-48X18 Splitter with Transformers
- 2-20' W4 to FAN (Monitor Split)
- 2-30' W4 to FAN FOH Split)
- 2-75' 16 channel drop snake

Touring consoles may be plugged into house PA at house mix or down left.

All audio snakes must be run through conduit.

#### **DSP**

The house DSP takes main speaker feeds and relay feeds, process them and feeds them to house speaker positions, including fill and delay speakers. This signal may also be routed to the relay system and the ALS system.

#### **AMPLIFIERS**

House speakers are powered speaker, so there are no amplifiers.

#### **SPEAKERS**

The house system consists of:

- JBL Vertec VT4887ADP-DA Powered Compact 3-Way Line Array. 12 boxes per side
- JBL VT4880ADP-DA Powered Fullsize 2-18" Subwoofers. 2 boxes per side.
- A center line array of (4) Renkus Heins CF101LA-52R speakers digitally fed from the DSP
- (6) JBL VP7212MDP Powered 12" 2-way Stage Monitors
- (7) Turbosound TFM122M-AN 12" 2-Way Stage Monitors



- (4) Turbosound TFM152M-AN 15" 2-Way Stage Monitors
- (2) Turbosound 18" Active Subwoofer w/DSP
- Self-powered 120x 80 monitor speakers: (2) Renkus Heins PN121M/12R digitally fed from the console which may also be fed line level signal.
- (2) Adam Audio T7V 7 Inch Powered Studio Monitor
- (14)Behringer HPS300 Studio Headphones
- (6) Audio-Technica ATH-M20x Closed-Back Monitoring Headphones
- (2) Focusrite RedNet AM2 Dante Stereo Output Device

#### MICROPHONE PREAMPS

• (2) Rupert Neve Designs RMP-D8 8-Channel Microphone Preamp

#### **AUDIO SOURCES AND MICROPHONES**

#### Sources

- CD Player: Dennon DN-C635
- Direct Box: (4) Whirlwind Director
- (2) Rupert Neve 1-Ch Active Instrument DI

# Microphones

- (2) Shure Beta 58a
- (4) Shure Sm57
- (2) Shure Beta Sm 57
- (9) Shure Sm 58
- (1) Shure Beta 87-C
- (1) Shure Beta 52A
- (5) Shure SM 81
- (2) Shure KSM 32 CG Condenser
- (4) Sennheiser E604
- (2) Sennheiser E609
- (4) Crown PCC 160 Boundary Layer Microphone
- (2) AKG 414 XLS Matched Pair
- (2) Neumann U 87 Ai Set Large-Diaphragm Condenser
- (1) Royer R-121 Ribbon Microphone Matched Pair
- (2) Neumann KM 184 Stereo Set Small-Diaphragm Cardiod Microphones-Matte Black
- (1) AEA R88A Stereo Ribbon Mic
- (6) Audio-Technica Hanging Condenser Mic
- (4) DPA 4099 (Bass Clip, Violin Clip, Piano)
- (2) Telefunken M80
- (2) Audio-Technica AT4033 CL Cardiod Condenser
- (4) Shure ULX series Wireless microphones systems
- (6) Countryman E2 headset
- (2) DPA 4061 Omni



- (4) ULX1 Bodypack Transmitter
- (4) ULX2/Beta 58 Handheld
- (8)ULXP4 Receivers

#### INTERCOM/STAGE MANAGERS CONSOLE

The intercom system is a 4 channel party line system.

- (16) Single channel belt packs and headsets are provided.

  There are remote stations at both stage manager's consoles (onstage and one portable for control booth or tech table).
- Wall stations are provided at house management locations.
- (6) Portable cue lights are provided.

# ASSISTED LISTENING SYSTEM

Listen 72 mhz FM System with (58) headset receivers and (12) induction loop receivers. This system is equalized and compressed in the DSP and fed the same source as backstage relay signal.

#### **BACKSTAGE RELAY AND PAGING**

The backstage relay signal may be fed from a dedicated signal from the house console, a dedicated feed from a touring console, from the Left, center and right channels feeding the main speakers or from dedicated monitor microphones.

This signal if fed via 70v distribution to dressing rooms, backstage areas, the lobby and the control booth.

The stage manager may individually select and page the house, backstage or the lobby via their intercom headset. This page overrides the volume controls in the dressing rooms.

#### MISCELLANEOUS AUDIO

- 1 BOSE L1 Model 1S System With Tone Match
- (1) PreSonus Studio Live 32 Channel Mixer w/ case
- (1) Air 15S PreSonus 1200W 15" PA Sub
- (2) Air 10 PreSonus 10" 1200W Speaker w/Stands

#### **VIDEO SYSTEMS**

A Crestron Digital Media system provides transport of video throughout the theatre. Signals are converted from their native format (including S-Video, RGB Component, Composite, HDMI, DVI, and Displayport) for projection in HDMI. Sources: Blu-Ray / DVD Player, (2) computer interfaces.

#### VIDEO CAMERAS AND ACCESSORIES



- 3- Panasonic AG-CX350 4K Camcorders
- 1-Black-Magic ATEM Television Studio Pro 4K S
- 1-Atmos 19" On-Set Monitor-Recorder 4KP60 HDR
- 3-Atmos Ninja V-5" Pro-Res Raw Recorder
- 3-Small HD 5" Touchscreen Outdoor 800 NIT Moni

# **PROJECTORS**

Barco RLM W14 14,000 Lumen Projector

Barco 0.67 HD/0.73 HB Lens Kit

Barco 4.1-6.9 HD/4.55-7.3 SXGA+ Lens Kit

24' x 13.5' Front and Rear Projector

- (2) Epson Pro L1505UHNL WUXGA 3LCD 12,000 Lumen Laser Projector
- (2) Epson Long Throw Zoom Lens
- (2) 150" 16:9 Format Projection Screen

# ORCHESTRA AND DANCE EQUIPMENT

#### **PIANO**

1 9' STEINWAY Concert Grand Model D

#### ORCHESTRA CHAIRS AND STANDS

125	Black Wenger Music Chairs
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Wenger Music Stands

Mighty Bright Music Stand Lights

1 Wenger Conductor's Podium & Music Stand

#### **MISCELLANEOUS**

- Rolling Z-Rack
- 14 6' Folding Tables
- 4 5' Round Folding Tables
- 4 Steamers
- 4 Irons



- 6 Ironing Boards
- 5 Black Bar Stools
- 4 Directors Chairs
- 9 Bil Jax 4' x 8' Aluminum Risers

# **DANCE FLOOR**

- 1 50' x 30' Rosco Adagio Dance Floor (6 5' x 50' Rolls)
- 1 Vario Reversible Marley Flooring Black/White (6- 5.25' x 43' Rolls)