



# ***Blair School of Music***

**The Martha Ingram Center for the Performing Arts**

**Technical Specifications**

Vanderbilt University  
Blair School of Music  
2400 Blakemore Ave.  
Nashville, TN 37212-3499

## **Contact Information for Ingram Center for the Performing Arts**

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### **Labor:**

Non-union stagehands with trained and supervised students.

### **Directions:**

From Interstate 440, take West End exit heading east on West End Ave. Turn right on Blakemore Ave. Turn left at the third light (24<sup>th</sup> Ave.) The loading dock will be on your immediate left. Go to the four way stop. The parking entrance is to your left. If you are backing a truck into the dock, you will need to use the marked exit.

### **Load in**

Loading dock is at the east end of the building. It is 3'-1 ½" high and 7'-0" wide. It will accommodate one tractor trailer. Load-in through 9'-5" wide by 11'-10" high double elephant doors emptying onto stage right. Equipment passes through carpentry shop to get to stage.

### **Storage:**

The Trap Room is accessible via an elevator. The Shop is stage right and accessible to a public hall US. Limited room is also available in the hall US of the performance area.

## General Information:

**Seating:** 551 permanent  
58 movable pit seats  
609 total  
8 handicapped (2 with elevator access)

**Stage Manager's console** is fixed DSR. It includes a video monitor, a switchable announce mic, four-channel Clear-Com remote station, and power strip.

**Access to stage** is from two sets of double doors (USL, USR) and two single doors (DSL, DSR) as well as one single door each side onto the calipers. Immediate access to house is through these doors.

**Green Room** is across a public hallway and can double as a dressing room. It includes a refrigerator, a microwave oven, coffee maker, dishwasher, couch, three makeup stations and sinks, and one commode. Immediate access to chorus dressing room.

### **Obstructions:**

The upstage shell wall is scalloped surface and leaves no room for crossover US of the cyc. US crossover is by the public hallway on the other side of the US wall.

There is no grid over the SR wing area.

### **Stage Dimensions :**

With orchestra shell in place:

DS width –	59'-2"
US width –	37'-2"
Depth of fixed stage –	38'-2"
Height at Plaster line –	29'-10"
Height at Back Wall -	24'-6"
Shell doors are just wider than a Steinway piano	
Shell Storage –	
Ceiling, US walls fold against US wall	
DS walls fold to become proscenium forms	

**Stage Dimensions:**

With Orchestra shell stored:

Proscenium width –	39'-8"
Proscenium height –	29'-10"
Floor Construction –	Tongue & groove pine over sprung sleepers
Depth from plaster line –	30'-4 29'-8"
Depth of apron to plaster line -	8"-4"
Stage height from house floor-	3'-5"
Stage right wing space -	29'-4"
Stage left wing space –	28'-10"
Pit Type–	Gala Spiral lift (controls SL)
Depth of pit @ center –	12'-7"
Depth of pit at ends -	3'-6"
Width of pit –	52'-5"

**Fly System:**

Locking rail at mid-level stage left doubles as pin rail.

Grid height to walking surface –	65'-0"
System Type -	Single purchase Motorized 1 <sup>st</sup> Electric Pin Rail SR and SL
Gallery	
Pipe -	1 ½" Sch 40 Black
Iron	
Distance between points -	10'-0" w 7 blocks per
line	
Pipe high trim -	62'-0"
Pipe low trim -	4'-0"
Pipe length -	67'-0"
Electrics high trim (1 <sup>st</sup> Electric)	50'-0"
Manual Electrics (2 <sup>nd</sup> and 3 <sup>rd</sup> Electrics)	43'-0"
Arbor capacity -	1500 lbs

**Notes:** The working grid ends at the last point of the line set just short of pipe length. All manual line sheaves are under mounted on high steel beams above the working subway grid.

Any scenery hung remaining in while the shell is deployed must clear the working arc of the shell. Please contact Technical Operations if any scenery in to be left in place while you are not using the facility.

A limited number of spot lines are available on request.

Line Schedule:

Line #	Distance	Designation	Notes
1	0'-7"	Main Teaser	
2	1'-7 ½"	Main Curtain	Guillotine or traveler
3	2'-10"	1 <sup>st</sup> Legs and Border	You noticed; on the same pipe
A	3'-10"	Hempset for 1 <sup>st</sup> Legs	2 – 21' pipes, separate control
4	5'-3"	1 <sup>st</sup> Electric	Motored. Doubles as Ceiling lift.
5	7'-4"	GP	
6	8'-2"	2 <sup>nd</sup> Black Border	
7	8'-10 ½"	2 <sup>nd</sup> Legs	
8	10'-2'	GP	
9	10'-10"	GP	Temp Border electric w/ 12 cts.
10	12'-2"	Cyc storage	
11	12'-10"	Scrim storage	
12	13'-6"	3 <sup>rd</sup> Black Border	
13	14'-2"	3 <sup>rd</sup> Legs	
14	15'-6"	2 <sup>nd</sup> Electric	
15	16'-10"	Full Black Traveler	
16	18'-2"	4 <sup>th</sup> Black Border	
17	18'-10 ½"	4 <sup>th</sup> Legs	
18	19'-6"	GP	
19	20'-2"	GP	
20	22'-2"	3 <sup>rd</sup> Electric	
21	25'-6"	GP	Muled upstage
22	26'-10"	GP	Muled upstage

**Soft Goods:**

House Teaser (Sand color)	20'h x 65'w
House Curtain (sand color, guillotine and travel)	30'h x 65'w
Black Velour Legs (4 sets)	28'h x 10'w
Black Velour Borders (4 sets)	8'h x 66'w
Full Stage Black Velour Traveler	30'h x 68'w
Black Scrim	30'h x 66'w
Cyclorama	30'h x 66'w

## Dressing Rooms

One Chorus Dressing and one Green Room located across a public hall from the backstage wall. Chorus dressing room adjoins 1 women's room and 1 men's room with showers toilets and sinks. Both dressing room and Green Room are lockable.

Makeup Stations – 10 in main room, 5 in women's restroom, 4 in men's restroom  
Wardrobe racks – 3 rolling.

Available on request:

- 1 -iron
- 1 -ironing board
- 1 -steamer
- 1 -washer dryer set situated in carpentry shop

## Props & Scenic

- 1 -Black dance floor available on request
- 4 -Sections of Black Rod and Drapes
- 8 -30" x 6' catering tables
- 10 -10' x 1" Bottom pipes

## Concert Equipment

- 102 -Grey Wenger orchestral chairs (IRH)
- 5 -Grey Wenger orchestral chairs (Turner)
- 3 -Grey Wenger cello chairs (IRH)
- 77 -Black Wenger orchestral chairs
- 9 -Black Wenger cello chairs
- 119 -Wenger music stands (IRH)
- 7 -Wenger music stands (Choral)
- 5 -Wenger music stands (Turner)
- 44 -Standlights
- 4 -Standlight stringers
- 3 -Wenger Lexan top conductor's stand (IRH)
- 3 -Conductor's podiums at differing heights (IRH, Turner, IH)
- 10 -4'w x 8'h Sound baffles (IRH only)
- 2 -Lecterns

## Pianos: (per Hall)

- 1 -9' Grand Pianos in Ingram Hall
- 2 -9' Grand Pianos in Turner Hall
- 1 -9' Grand Piano in IRH
- 1 -6' Grand in Choral
- 1 -Upright Piano Conductors Greenroom

## REHEARSAL HALL

There is available, dependent on scheduling, a rehearsal hall across the hallway from the upstage wall. There are 4 mic lines, 4 video lines, and 2 com lines connecting it to the Ingram Hall audio booth and patchable there to and from other parts of the building.

\* parenthesis in the above list indicates where items are usually stored and availability varies according to scheduling.

**Electrics:**

**Power:**

- 1 - 200A Company switch USR with tie-in and Posi-lok single neutral.
- 1 - 400A Company switch USR with tie-in and Posi-lok single neutral.
- 1 – 100A Service USL with switched hots and chassis ground, neutral tail.

Houselight control at Unison 10 button panels located DSR, DSL, USR, USL, at LCD touchpanel in lightbooth or portable LCD panel at port near DSR Stage Manager’s position. Houselights are also controllable through the lighting console and programmable to the Unison system via the stage lighting console.

**Control:** ETC Ion Memory Console  
 RFU for above w/ 50’ cable  
 Console & RFU taps DSL, DSR, ctr. seat row #, catwalk, BOH

**Dimming:** 288 available ETC Sensor 2.4k dimmers (dimmer per circuit).  
 Dimmers 334 – 384 are houselights.

Circuits -	Beam position –	40
	Bridge –	40
	Box booms (4) – 10 each	40
	1 <sup>st</sup> electric	40
	2 <sup>nd</sup> Electric	20
	3 <sup>rd</sup> Electric	40
	SL Pinrail	30 (Socapex)
	SR Mezzanine	6 (Socapex)
	DS Alcoves	12 (6 SL, 6 SR)
	US	12 (6 SL, 6 SR)
	Pit	4
	Trap room	4

**Lighting Inventory:**

**Instruments**

<i>Automated</i>	8	K9 Bulldog LED Pars
	8	ETC Revolutions
<i>ETC Source 4 bodies</i>	106	

<i>Lens Counts</i>	33	19°
	37	26°
	43	36°
	10	50°
	6	10°
<i>Pars</i>	40	ETC Parnell
	85	Aluminum PAR64
<i>Cyc Units</i>	6	Altman 3 cell FarCycs hanging
	9	Altman 3 cell FarCycs Floor mount
<b>Cable</b>		
<i>Stage Pin</i>	8	50'
	13	25'
	34	10'
	22	5'
	17	Twofers
<i>Edison to Stage Pin</i>	5	
<i>Stage Pin to Edison</i>	4	
<i>Socapex (11mil)</i>	8	100'
	1	50'
	8	Fan outs
	2	Fanins
<i>AC(Edison 12/3.)</i>	2	50'
	3	25'
	4	Quad Break-Out
<b>Accessories</b>		
	20	Parnel Barn Doors
	8	Floor Bases
<i>Boom stands (1 ½" sch. 40):</i>	4	18" square
	2	50 lb. round
	20	SideArms
	8	10' Dance Booms
	8	10' Dance Boom Extensions
	8	Shell Ceiling Hangers
	4	Shell Wall Hangers

## Video & Projection

The video system is patchable in the booth through two Videotek six way distribution amps, with lines run throughout the new end of the building and Turner Recital Hall.

1	9' x 12' Dalite front and rear projection screen
1	6' x 9' Dalite front projection screen
1	NEC GT1150 LCD projector w/ 1 mid-zoom, 1 long-zoom lens



- 1 NEC MT1020 LCD projector
- 1 Kodak Ektagraphic III 35 mm slide projector
- 1 JVC HR-A591U VCR
- 1 Panasonic DVD burner / Player
- 1 Phillips DVP320 DVD player
- 2 Panasonic MiniDV cameras
- 1 Sony Hi8 HandyCam
- 2 Canon LCD cameras permanently mounted in each hall for stage monitors
- 2 Video monitors (1 - 27", 1 - 13", 1- 9")

Cable

Coax (BNC):

100'	2
50'	2
10'	3

RGB (9-pin Dsub)

50'	1
5'	1

Assorted Adapters

## Audio

EAW stacks, powered by 3 - QSC CX702 and 3 – CX902 mains amps in booth. Lobby feed and backstage feed are two separate systems, controlled from the booth. There is an auxiliary snake input at center BOH (20 input, 4 output) wired to the Booth patch bay and 2 – 4” BOH to Stage Snake pipes run under the house. Acoustical curtains (3 over the house, 1 on BOH wall) are motor controlled from DSR.

Booth: Midas Venice - 36 input channels, 8 groups, 4 aux sends,  
4 matrixes, 1 stereo out, 1 mono out.

Phantom power is available on all channels.

Input channels are distributed throughout and patchable.

Two dry lines are run to and two from Turner Recital Hall

Six dry lines on bridge and twelve from SL are run to Recording Studio in basement

Patchable Equipment in booth:

QSC amprack in booth with patchable Speakon sends throughout hall:

- 1 QSC CX1102
- 1 QSC CX302
- 1 QSC CX902

Auxiliary gear:

1 Mackie 16/2 console, 6 aux, L/R mains

1 Aux. amprack with:

DBX 2231 graphic EQ

JBL N552 crossover

QSC Powerlight 1.4 1400w amp

QSC Powerlight 2 2000w amp

1 Behringer DSP 2024D Virtualizer processors

4 JBL S212-A monitor wedges

2 JBL S125S Sub wedges

6 EV Sx100+ speakers w/ 2 tripod stands

2 EV Sb121

2 Klipsch LSBR LaScala Speakers

Microphone Inventory

<u>Qty.</u>	<u>Manufacturer</u>	<u>Model</u>
Small Diaphragm Condensers:		
2	AKG	SE300B bodies CK92 omni capsules
2	AKG	CK91 cardioid capsules 4011 fixed cardioid
2	B&K	4007 fixed omni C460B bodies
2	B&K	4007 fixed omni C460B bodies
2	AKG	CK61-ULS cardioid capsules CMC6—U bodies
2	AKG	MK8 figure eight capsules MK4 cardioid capsules MK25 omni capsules
14	Schoeps	cardioid capsules MK25 omni capsules
3	Schoeps	cardioid capsules MK25 omni capsules
9	Schoeps	MK21H wide sub-cardioid capsules BLM3 PZM capsule
2	Schoeps	KFM100 Stereo Sphere
2	Schoeps	
1	Schoeps	
1	Neumann	

Large Diaphragm Condensers :

		1	Realistic
2	AKG	1	Audio Technica
1	Audio Technica	1	Audix
2	CAD		

Large Diaphragm Dynamic:

2	Shure
3	Shure
1	Shure
3	Shure

Wireless Units:

4	Samson
4	Sennheiser
4	Samson

C414B-ULS  
(multi-  
pattern)  
AT4050/C  
M5 (multi  
patten) M  
9 (tube  
powered,  
cardioid)

SM58 cardioid

SM Beta58a cardioid SM58s (switched)  
cardioid SM57 cardioid

Highball cardioid Pro 2ax cardioid  
OM 3xb cardioid

UT6 wireless lavalier transmitter MKE 2-3 wireless  
lavalier microphone

CCRUH6 handheld wireless microphone

Receivers for all above are rack-mounted in IH Booth, antennas mounted above booth.

1	Audio-Technica	ATW1453 Handheld & Lav System (portable).
4	Shure	Beta 58

Mic Stands:

Round Desktop	5
Round Straight	3
Tripod boom	12
Tripod boom (short)	1
Tripod Straight	1
Bogen High boom	4

Cabling:

3-pin XLR:

100'	6
50'	5
25'	11
10'	1
Assorted adapters	

5-pin XLR (stereo)

50'	11
25'	12
Splitters	2

Speakon:

100'	2
50'	1
25'	1
15'	5

Recording:

Recording Room in basement accessible by stairs or elevator

- 2 Tascam DA88 ADAT (Hi-8)
- 2 Allessis Masterlink hard drive recorder (1 in IH, 1 available on request, dependent on schedule).
- 1 LaylaG3 & Macintosh G4 Computer (Available on request, dependent on schedule)
- 1 HHB CDR/ RW recorder
- 2 Tascam 112 MkIII Cassette decks (Booth, Recording Room)
- 1 M-Audio Firewire 410 A/D converter
- 1 Tascam cassette deck
- 1 Fostex DAT
- 1 Tascam PortaDAT

Communications:

Four channel Clear-com main station in audio booth.

Four channel remote Station at Stage Mgr's console

10 belt packs

12 headsets

18 - 25' 3-pin XLR cables Outlets

throughout building

Single channel (ch. 2) wall panels in dressing rooms and all support areas

Single channel Telex wireless tied into system



## Props & Scenics

- 1 Black Rosco dance floor available on request
- 6 2'-6" x 6' catering tables
- 10 10' x 1" Bottom pipes

### Concert equipment:

- 70 Grey Wenger orchestral chairs
- 9 Grey Wenger cello chairs
- 70 Black Wenger orchestral chairs
- 9 Black Wenger cello chairs
- 100 Wenger music stands
- 40 Standlights
- 6 Zipchord standlight stringers
- 1 Wenger Lexan top conductor's stand
- 6 Conductor's podiums at differing heights
- 3 9' Steinway grand pianos (1 in IH, 2 in Turner Hall, available on request dependent on scheduling)
- 12 4'w x 8'h Sound baffles
- 2 lecterns

## REHEARSAL HALL

There is available, dependent on scheduling, a rehearsal hall across the hallway from the upstage wall. There are 4 mic lines, 4 video lines, and 2 com lines connecting it to the Ingram Hall audio booth and patchable there to and from other parts of the building.

There is a rolling recording rack with a Mackie 1202 mixer, a CD player, a Tascam 112 MkIII cassette deck and a QSC CX702 power amp. Two EV Sx100+ speakers are available and two are permanently hung.

## SHOP

Adjoining the stage is a full, but small, shop with full woodworking and steel cutting and welding capabilities. Usage of the shop is available with staff supervision.