



# IAN MACINTOSH THEATRE

## TECH SPECS

## A bit about our venue

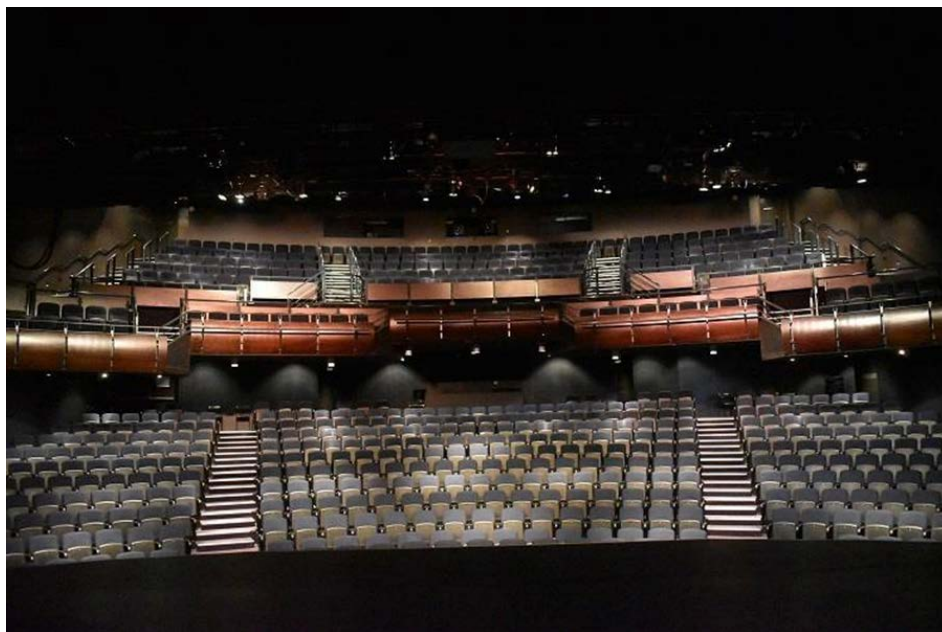
The Bathurst Memorial Entertainment Centre operates two performance venues. The Ian Macintosh Theatre seats 642 (391 in the stalls and 251 in the dress circle) and our City Hall is licensed to hold 1100 people.

This venue also has large conference rooms with partition walls that make four individual conference rooms for hire.

City Hall is more suited to cabaret style events, and is used quite regularly for balls, presentations, trade shows, dance party's etc. The venue also offers two foyers, one on ground level and another on the first floor "Wattle Foyer". There is a bar in each foyer and a third in the City Hall Auditorium.



## Theatre - Auditorium



Stalls level and Dress Circle level.

Capacity is 642 with 391 in the Stalls level and 251 in the Dress Circle.

# Stage



Slightly raked stage with a proscenium arch, and a single purchase counterweight fly system. Hardwood floor covered in Weathertex sheeting. Screwing into stage surface is permitted but must be authorised by centre staff.

Stage distributed load limit 500kg/m<sup>2</sup>.

Stage has a rake that runs from Centre to upstage edge of orchestra pit. Actual ratio of rake is 1/92.

## Stage Dimensions

Proscenium Arch Width 10500mm Height 4750mm Setting Line is the upstage edge of proscenium Arch  
Distance From (SL = Setting Line, CL = Centre Line)

SL to DS edge of apron 1100mm

SL to DS edge of Orchestra Lift/Pit 3300mm SL to first fly line 630mm

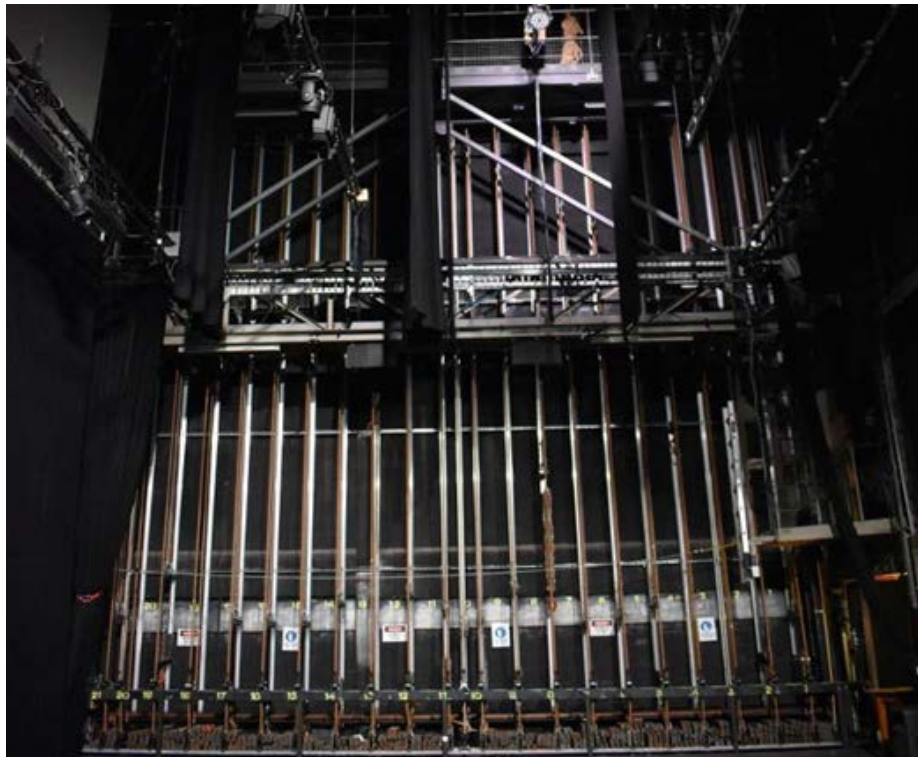
SL to last upstage fly line 8775mm SL to rear wall 9660mm

CL to OP wall (or obstruction) 8940mm

CL to PS wall (or obstruction) 8230mm

Stage to underside of grid 11500mm

# Overhead Obstructions



Actual distance to OP wing 11700mm but overhead wall obstruction reduces usable distance for sets etc. to 8940mm.

Two loading galleries PS stage.

Prompt side upstage loading gallery stairs only 250 mm clearance from end of upstage fly battens.

Air Conditioning Duct on the Prompt side of Proscenium just upstage of setting line.

# Orchestra Pit



The orchestra pit is comprised of fixed floor sections that require three crew 1 hour to move. Dimensions 10000 x 3000 x 2170mm (usable dimensions) Maximum capacity 35.

## Fly System

Operating Position PS at stage level Total number of Lines 21

Batten Drift 10000mm

Batten Type H20LB Prolyte Truss 150mm c/c 48mm OD Batten Length 12000mm

Batten Extensions N/A

Batten Pick-ups 4 pick-ups, 2 either side of centre at 3650mm apart Batten Centre Point

Load 190 KG 3 metre span

Batten Distributed load 130kg/pm

Cradle Capacity Refer to Hanging Plot for Details LX bars can be swung YES

Fly bars can be swung YES



Fly system is a single purchase handline counterweight system.

Additional Rigging Notes Grid Capacity 13000kg

Point Loading on Grid Trusses 469kg

SWL on Grid Trusses 440kg / Lin metre

## Stage Drapery

*Type	Material	Colour	Width	Height	Quantity
House Curtain	Wool / Full	Deep Purple	12000	5500	1
Borders	Wool / Flat	Black	12000	2000	4
Legs	Wool / Flat	Black	2800	6000	3 pair
	Wool / Flat	Black	1400	6000	1 pair
MID Tabs	Wool / Flat (French Action)	Black	12000	6000	1
Cyclorama	Jands Cotton	White	12000	6300	1
Smother	Wool / Flat	Black	12000	6000	1
Star cloth available (charges apply)	Wool	Black	6000	4000	2

# Hanging Plot

Line #	Distance from setting line	Line Type	Cradle Capacity kgs	Venue Allocation
0	100	Fire Curtain	n/a	Fire Curtain
1	630	Single Purchase	144	House Curtain
2	1040	Single Purchase	81	
3	1470	Single Purchase	160	LX 1
4	1860	Single Purchase	144	
5	2300	Single Purchase	81	Border 1
6	2720	Single Purchase	144	Leg 1
7	3160	Single Purchase	81	
8	3570	Single Purchase	160	LX 2
9	4000	Single Purchase	144	
10	4420	Single Purchase	144	Border 2
11	4790	Single Purchase	144	Legs 2 + French Action Tab
12	5255	Single Purchase	160	
13	5680	Single Purchase	144	LX 3
14	6100	Single Purchase	144	
15	6540	Single Purchase	144	
16	6950	Single Purchase	144	Border
17	7365	Single Purchase	144	Leg 3
18	7785	Single Purchase	144	LX 4
19	8210	Single Purchase	160	
20	8645	Single Purchase	144	Full Black
21	8775	Single Purchase	144	Cyclorama

## Access & Stage Equipment

EWP JLG AM25DC Battery operated (Push Around) Platform Height is 7.67 metres.

Ladders (1) 6ft step ladder (1) 3m step ladder

\* There are one more of each of these ladders located in our other venue, if you require the use of these please contact in advance.

Rostra 20 x 2000 x 1000mm stage rostra 600mm adjustable height

# Safety Curtain

Safety Curtain installed - YES

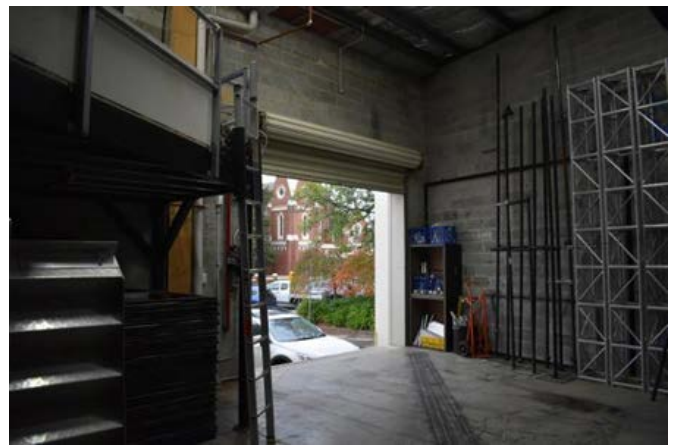
Safety Curtain must always be unobstructed unless procedure in place

Thickness of Fire Curtain 150 mm

Distance from setting line 100 mm

Note: Measurement is to the downstage edge of the Fire Curtain.

# Loading Dock



# Dock Access

The loading dock access is at the front of venue on William Street. Truck can reverse up to loading dock. Please note, loading dock is at stage level

Loading Dock Height 1170mm (from ground) Door Dimensions H=2900mm

W=3485mm.

# Staging Notes

A limited amount of rigging equipment is available in house. For rigging of larger shows or specialised pieces, own rigging equipment is required.

All materials must be fireproofed for stage use.

All flown or rigged items must be rigged with rated equipment, and must be approved by a venue representative.



# Lighting

Lighting rig plans can be found at [bmec.com.au/venue-hire](http://bmec.com.au/venue-hire)

## Positions

Four on stage lighting bars which can be swung one either side of their original position if necessary.

See hanging plot for standard LX bar locations Booms

(6) x 4 metre & (2) x 2.5 metre booms available. (50mm round pipe with square base)

## Orchestra Bar

Setting Line to lighting bar 2100mm and 76 degrees (variable) Usable bar width 10 metres

Notes Orchestra bar must be focused using EWP. DMX & Ethernet patch is available on orchestra bar.

## FOH Bridge #1

Setting Line to lighting bar 6800mm and 46 degrees Usable bar width 19390

DMX & 3 Ethernet patch available on FOH

## Dress Circle Bar

Setting Line to lighting bar 12100mm and 10 degrees Usable bar width 11600mm

Note Dress Circle Bar in three curved sections, this measurement is for the Centre of the middle section.

DMX & 3 Ethernet patch available

## Perches (PS & OP)

Perch positions located 150mm US of Proscenium. Working height = 1620mm - 4300mm.

Distances are to the highest downstage point of boom or perch. DMX & Ethernet patch available.

## Control

Lighting desk ETC ION 2000 (40ch side wing) Lighting Console with two LCD's.

Control channels 2000

Signal output DMX 512 & Ethernet

Signal distribution 8 channel DMX & Ethernet splitter in dimmer room

4 channel Ethernet to DMX Node in dimmer room

DMX & Ethernet patch available to all lighting bars including perch positions.

No riggers remote. Wi-Fi control is an available option

## Dimmers

Dimmer room located PS of stage behind proscenium wall above Stage Managers console.

2.4Kw Dimmer Racks x 7 Solution Cool APC (2) JANDS FPX-12 (3)

JANDS HPC-12 (2)

Total dimmers @ 2.4kw per dimmer 84

## House Lights

Independent control YES

Control positions Stage managers Desk, Lighting Console Fade time adjustable on Console YES, on SM panel NO

## Lamp List

### Profile

Make	Model	Angle	Detail / Accessories	Watt	Total
Martin	EWP-WW	26	LED warm white	273	2
Martin	EWP-WW	50	LED warm white	273	6
ACME	XA-400	7-31	LED Moving head	300	5
Selecon	Pacific	14/35	29 B size Gobo holders 1 Fergo holder & 2 iris's	1200	24
Selecon	Pacific	26/50		1200	6
Selecon	Acclaim	18/34	5 B size Gobo holders	650	10
Selecon	Acclaim	24/44		650	10
Strand	Brio	25/50	8 B size Gobo Holders	600	12
Strand	Brio	18/30		600	11
ETC	Source four jnr	25/50		575	8

## Fresnel

Make	Model	Detail / Accessories	Watt	Total
Selecon	Arena	barn doors	2000	24
Selecon	Acclaim	barn doors	1200	14
Strand	Cantata	barn doors	1200	10
Selecon	Rama	barn doors	1200	8
Selecon	Acclaim	barn doors	650	12
Strand	Quartet	barn doors (3)	650	4

## PC

Make	Model	Detail / Accessories	Watt	Total
Prolite	PC	barn doors (9)	650	8

## Par cans

Make	Model	Angle	Detail / Accessories	Watt	Total
Pro Shop	Quad pro 18	Fixed	LED RGBW	144	20
Par Spots	Par64	MFL		1000	18

## Flood

Make	Model	Detail / Accessories	Watt	Total
Silverstar	Pluto 350	Moving Head LED CMY wash	350	12
Selecon	PL3	LED RGBW	480	3
Prolite	CYC Unites	(4) cells per unit	500	4
Selecon	HUI	(4) cells per unit	500	6

## Followspots

Make	Model	Angle	Detail / Accessories	Watt	Total
Pacific	80-volt dim type		Six colour Magazine	1000	2

## Additional Lighting

Item	Make	Model	Detail / Accessories	Watt	Total
Moving light	Martin Mac	250 Krypton	Profile	250	2
UV Cannon		BL-UV400		400	4
Sconce Lamps				25	25

## Patching

Location	Quantity	Numbering (PS to OP)	Detail / Accessories
FOH Bridge	18	18-1	
	15	21-35	
Orch. Bar	18	3x 6-way loom	OB1 (ch1-6) OB2 (ch1-6) OB3 (ch1-6)
PS Perch	5	6-10	
OP Perch	5	1-5	
LX 1	18	11-28	
LX 2	18	29-49	
LX 3	14	47-50 + 6- way loom	
LX 4	4x4	55-58	Four banks of four patch points
Floor Pit PS/DS	1	62	
Floor Pit PS/MS	1	63	
Floor Pit PS/US	1	64	
Floor Pit OP/DS	1	59	
Floor Pit OP/MS	1	60	
Floor Pit OP/US	1	61	

## Power

(Three Phase Outlets) 40 amp  
8 Outlets in Dimmer Room  
1 Outlet Prompt side Stage  
1 loading dock

(Three Phase Outlets) 32 amp  
2 Outside Dimmer Room  
1 FOH Bar  
1 Orchestra Bar

## Cabling

The venue has many extension cables of various lengths for use by hirer. Any specific cabling requirements should be discussed prior to bump in. For example, booms that require more than the six available floor patch points.

## Looms

(3) 15m 6-way Weiland  
(1) 20m 6-way Weiland

## Audio



(Control Room Sound & Lighting booth  
Back, centre of Stalls. Dedicated position does not need seats moved.

## Control Positions

Back, centre of Stalls

Stage Management Console, prompt corner, small mixer patched directly to FOH speakers.

## Sound Consoles

Main console

Yamaha QL5 32 channel digital

Available consoles

Mackie Onyx 1640 16 channel, 4 stereo inputs, 6 auxiliary sends.

Mackie Onyx 1220 4 microphone inputs, 4 stereo inputs, 2 aux sends Yamaha QL1 16 channel digital

Yamaha MG16XU 16 channel, 10 mic / 16 line inputs, 4 group, 4 aux including FX

Yamaha MG20XU 20 channel, 16 mic / 20 line inputs, 4 group, 4 aux including FX

## Amplifiers

Two (Crown XLS1500) stereo power amps (foldback)

One (Crown PT3) stereo power amp (dress circle delay)

## EQ

Digital from QL5

1x DBX 1231 (FOH)

2x DBX -231 (foldback)

## FX

Digital from QL5

1x Midiverb 4 FX

2x Lexicon MX200

## Processors

Digital from QL5

3 x dbx 266xl compressor / gate

2 x dbx 166xs compressor / gate / limiter

## Speakers

4x Meyer UPA-1P self-powered flown (FOH)

2x Meyer USW-1P self-powered subs (FOH)

4x Martin EM 15 (dress circle delay)

## Foldback

4x Mackie C300 passive speakers (another 4 available on request)

## Additional Speakers

6x FBT Jolly 5JA self-powered speakers  
4x Martin EM15 twin 5-inch passive  
4x DB Flexsys F8 self-powered 400 W PRG

## Playback

Item	Make	Model	Detail	Total
CD Player	Kenwood	DP 2080	Single CD, one is <u>located in</u> City Hall, but can moved on request	2
CD Player	Denon	DN-4500	Dual MP3 / CD player	1
Cassette player	Sony	TC-WC475	Dual deck domestic	1
Cassette player	JVC	TD-W354	Dual deck domestic	1

## Microphones - Wireless

Make	Model	Detail / Accessories	Use	Total
Shure	ULXD4Q	Quad Channel Receiver	Lapels/Handhelds	2
Shure	ULXD4D	Dual channel Receiver	Lapels/Handhelds	3
Shure	ULXD1	Body pack	Belt Pack Transmitter	14
Shure	ULXD2B58	Beta 58 handheld radio mic	Vocals	7
Shure	ULXD2B87A	Beta 87A handheld radio mic	Vocal / instrument	3
Shure	DPA-4066	Tan headset microphone	vocal	4
Shure	MX153T/0-TQG	Tan headset microphone	vocal	12

## Microphones

Make	Model	Detail / Accessories	Use	Total
Shure	SM57	Dynamic	Instrument	5
Shure	SM58	Microphone clips Inc.	Vocals	12
AKG	D770	Mic. clips Inc.	Instrument	6
Sennheiser	604	Drum mics	Instrument	6
Shure	Beta 52A	Kick drum mic	Instrument	1
Audio Technica	871	Require phantom	Floor mics	4
Audio Technica	853	Require phantom	Hanging mics	4
Peavey	VCM 2	Require phantom	Hanging mics	2
AKG	C1000	Condenser	Instrument	2
Rode	NT3	Condenser	Instrument	2
Rode	NT5	Condenser	Instrument	4
Rode	NTG 2	Shotgun	Instrument	2

## Accessories

Item	Model	Detail / Accessories	Total
Microphone Stands	Banquet	Tripod	6
Microphone Stands	Tri base	Short with Boom arm	13
Microphone Stands	Tri base	Tall with Boom arm	20
Direct Input Boxes	DOD 275	Active Direct Injection Box	4
Direct Input Boxes	Legacy	Active Direct Injection Box	4
Direct Input Boxes	Sound King	Active Direct Injection Box	8
USB DI	ARX	Stereo balanced AXR outputs	1
Speaker Stands	Sound King	Tripod Adjustable Height	6

## Line Patching

Location	Quantity	Numbering	Detail
Behind Proscenium PS	16	17-32	4 sends (5-8) 2 speaker output 2+4
Behind Proscenium OP	16	1-16	4 sends (1-4) 2 speaker outputs 1+3



## Audio Cable

The Theatre has a reasonable stock of leads for most audio applications within the venue.

2 x 30-metre 8 way drop box

1 x 30-metre 16 way drop box

1 x 20-metre 8 way drop box

## Audio Notes

Effects and compression can be patched and un-patched for arrival on request.

## Audio Visual

### Projectors

Type	Model	Detail / Accessories	Total
Hitachi	CP-WU9410	1080P Native, 8500 lumens, ultra-short lens 8:1. & Standard lens	1
Sony	VPL-DX10	2500 ansi lumens	1
Sony	VPL-FX52	6000 ansi lumens wide & standard Lens	1
NEC	P401-W	4000 ANSL lumens wide throw	1
Optima	ZH400UST	3600 ANSL 1920x1080	2

### Projection Screen

Stumpfl MonoBlox 64 frame with front & rear projection surface's

Screen dimension 14' x 10.5' @ 4:3

Additional Screens

### Vision Switchers

Datavideo SE500 4 channel analogue switcher

Kramer VP-747 8x2:3 ProScale™ In-CTRL™ Dual Scaler Seamless Switcher Kramer

VP-727A 8x2:3 In-CTRL™ Stereo Audio Matrix Switcher

Shinybow SV5544 4x4 composite switcher

## AV Playback

Item	Model	Detail / Accessories	Total
LG DVD Player		Single DVD player	1
Phillips DVD Player		Single DVD player	1
Sony BLU-RAY	BDP-S470	Multi format HDMI 3D & USB input	1

### Projector Rigging Points

Projector can be rigged off any lighting bar using a T-bar and 90-degree Scaff coupling.

## Cabling

The venue has a range of BNC video cabling:

1 x DVI over CAT5 Extender WUXGA (1920 x 1200) available 40-meter max

4 x VGA over CAT5 Extender (1280 x 1024) 150-meter max

## Patching

Location	Quantity	Numbering	Detail
PS Proscenium	2	1&2	1 used for programme relay
OP Proscenium	2	5&6	6 used for programme relay
Orchestra bar	1	8	
Dress circle bar	2	9&10	9 used for programme relay camera
Mix position	4	11-14	

## Audio Visual Notes

Projector cradle is specific to venue's projector; If not using this, hirer will need to bring their own if using another projector.

# Backstage

## Communications

### Stage Managers Desk

The Stage Management Desk is in the prompt corner. The desk is on wheels but must remain on prompt side. It is equipped with talkback, light, clock and a stage vision feed. The work light control panel for the stage is also located at this position.

### Talkback

Master Unit JandsTalkback system running from Lighting Console Position  
Wireless ClearCom DX210 x 4 belt packs.

Total Belt Packs           8  
Total headsets            8  
Radio Units In-house   0

### Talkback Patching Located at:

Talkback Patch and allocation	Number of points	Master	Belt Packs	headsets
Lighting desk	1	1		1
Sound desk	4		2	2
Stage Manager	2		1	1
Fly Rail	4		1	1
Follow spots	2		1	1
Piano Store	2			
Prompt rear wall	2			
Prompt Stage	2			
OP rear wall	2			
OP Stage	2			

### Paging Show Relay

The dressing rooms and green room can be paged from the Stage Managers Desk. There is also a show relay via two shotgun mics distributed to all dressing rooms and green room.

## Stage Monitors

Vision of stage is in the green room, dressing rooms (lower), OP & Prompt side of stage. Video reticulation can be patched to foyer areas if requested.

## Dressing Rooms



Dressing Room	Capacity	Toilets	Shower	Details
Dressing Room 1	20	(4)	Yes	Air conditioned -Disabled access
Dressing Room 2	5	(1)	Yes	Air conditioned
Dressing Room 3	20	(2)	Yes	(2) heater
Dressing Room 4	5	(1)	Yes	(1) heater
Dressing Room 5	6	(1)	Yes	(2) heater

# Laundry / Wardrobe



**Washing Machines** 2 x Large Capacity Maytag Washing Machine

**Dryers** 2 x Large Capacity Speed Queen Dryer

**Drying rooms** Laundry with Drying Rail

**Iron / ironing board** 2 x Irons and 2 x Ironing Boards

**Clothes racks** Fixed drying rail in laundry

# Green Room



Tea / Coffee and washing up facilities. Small fridge and microwave.  
Stage monitoring via tannoy and video monitor.

## **Stage Door**

Stage door is located at the back of the crossover in the car park of William Street.  
Stage door is not to be left open or unattended. The technician on duty will unlock stage door keypad at arranged access time. Stage door keypad will then be locked after the show.

Stage door code will be given to each touring group for duration of stay.

**DOTL alarm will sound if stage door is left open for more than 4 minutes.**

## **ADDITIONAL FACILITIES & INFORMATION**

### **Orchestral**

(1) Steinway Concert Piano available on request

(2) Yamaha upright pianos. One is at stage level, the other located in the orchestra pit.

(35) Music Stands with (25) Sconce lamps

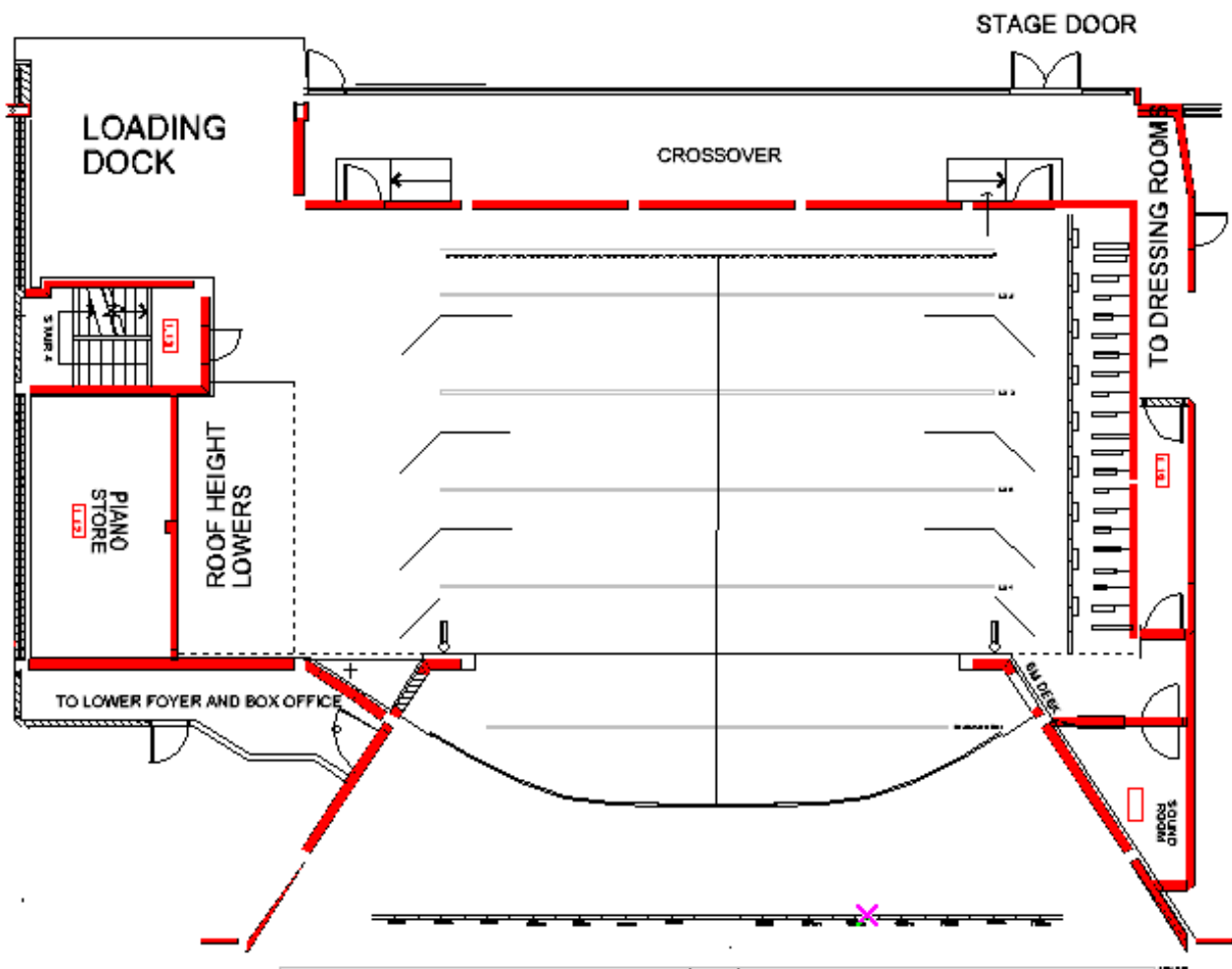
All Pianos require tuning before use. This must be negotiated well in advance.

### **Rehearsal Space**

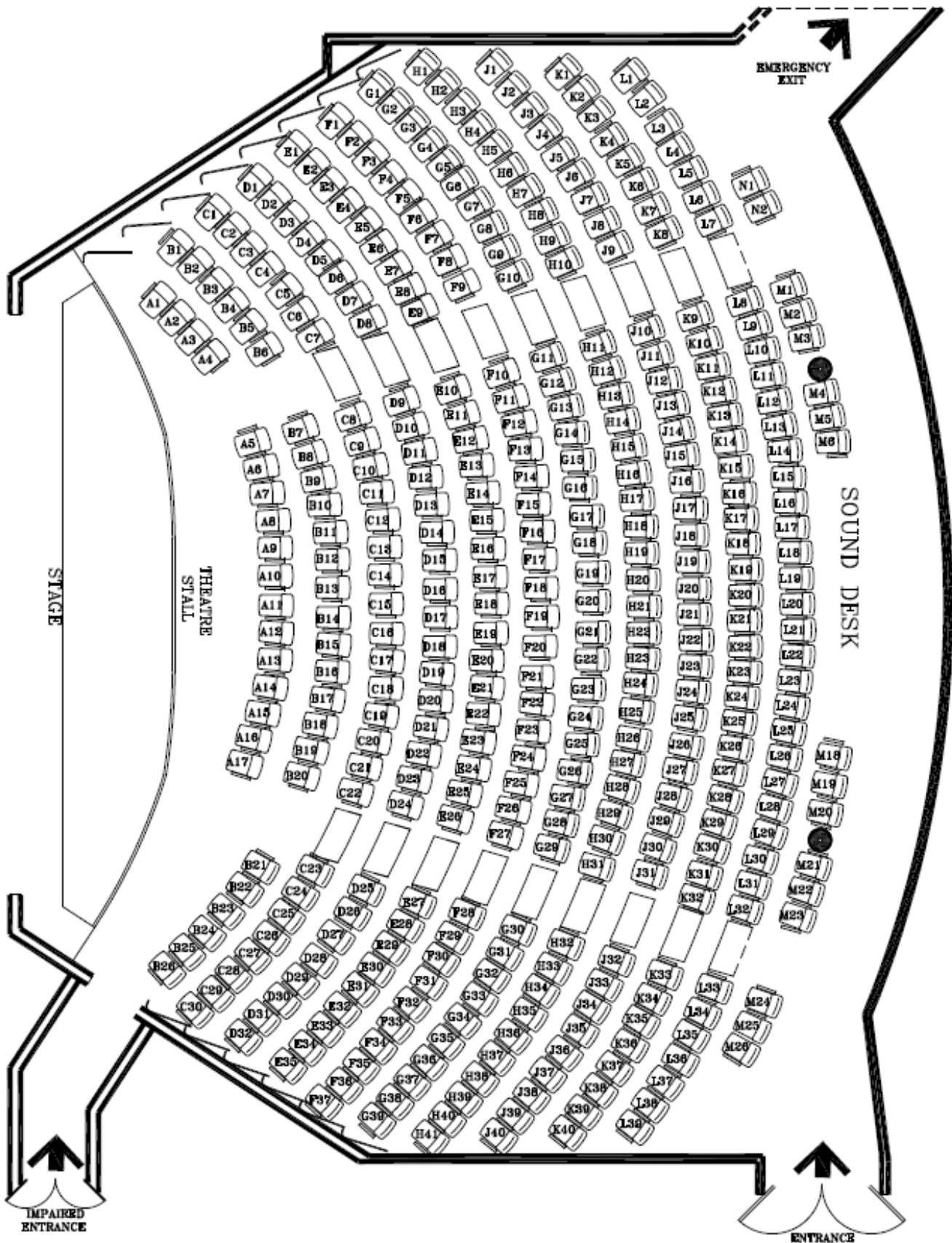
Conference Rooms and City Hall can be used as rehearsal spaces with prior notice dependant on current bookings. This may also incur a fee.

Space has carpet on concrete floor.

# Theatre Plans



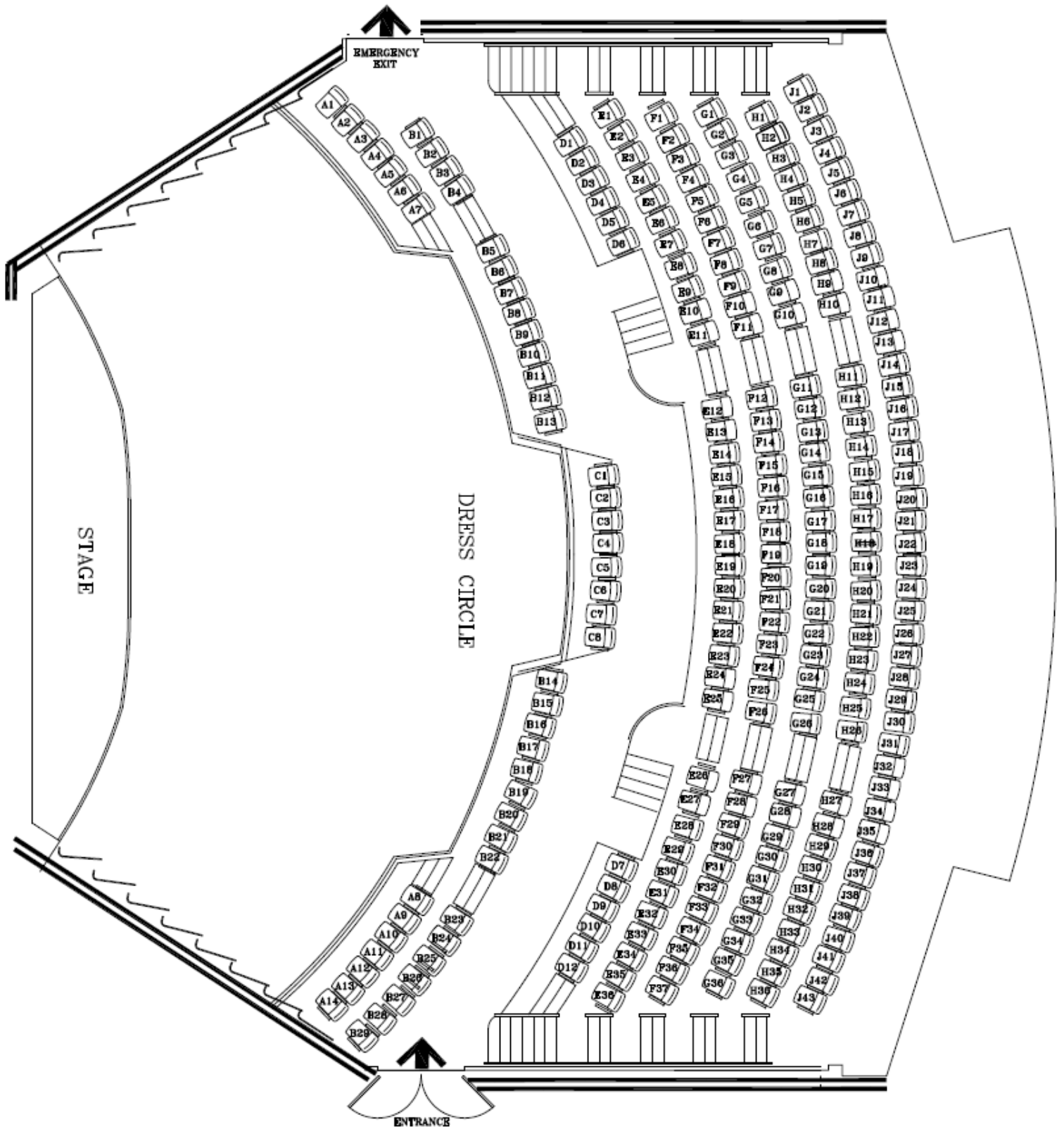
# Stalls Seating



**391 seats**



# Dress Circle Seating



**251 seats**