

Clocktower Centre

Technical Specifications

Updated
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Team Leader Technical Services:

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Venue:

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STAGE

Brief Stage Description:

Unraked stage with a proscenium arch and flying facilities. Structural plywood floor covered with Masonite sheets. Screwing into surface permitted but larger holes to be authorised by Technical Services Supervisor. Downstage thrust/orchestra pit with motorised lift.

Stage distributed load limit	700kg / m2
Stage Point load limit	400kg
Orchestra Pit distributed load limit	200kg / m2, maximum 6,000kg
Orchestra Pit Point load limit	200kg
Stage Rake	NO

Stage Dimensions:

Proscenium

Width **10.96 metres** Height **6 metres**

Setting Line

1.75 metres upstage of the fixed stage/forestage.

Distance From (*SL = Setting Line, CL = Centre Line*)

SL to DS edge of apron	4200mm
SL to US edge of Orchestra Lift/Pit	1750mm
SL to last upstage fly line	7250mm
SL to rear wall	7400mm
CL to OP wall (or obstruction)	8100mm
CL to PS wall (or obstruction)	11000mm
Stage to underside of grid / roof	15000mm
US edge of pit to last upstage flyline	9070mm
DS edge of apron to rear wall	11600mm

Overhead obstructions

PS Gallery height 4000mm
OP Gallery height 5600mm

Auditorium:

Auditorium consists of stalls (291 seats) and a dress circle (214 seats).
Seating capacity with additional

Orchestra lift/pit seating installed **545**

Seating capacity without
Orchestra lift/pit seating installed **505**

Orchestra Lift / Pit:

Orchestra Pit

A motorised orchestra pit that must be operated by competent staff only.

Set positions for orchestra lift where lift at auditorium level is 0mm

Stage level at **1100mm** above auditorium.

Orchestra pit level at **1600mm** below auditorium.

Lift can be set at any height **No – 600mm below stage level only for Orchestra**

SWL of orchestra lift **6 tonnes with a maximum point loading of 1.02 tonnes**

Dimensions of the orchestra pit Usable area for an orchestra is 12m x 2.5m

Flying Facilities:

Fly System

The fly system is a single purchase handline system.

Fly System Details

Operating position	Stage Level, OP
Total number of lines	30
Panorama Lines	1 bar OP and 1 bar PS
Batten flight height	14500mm
Batten type	40NB medium steel pipe, (48.3 outside diameter)
Batten length	11200mm
LX bars can be swung	YES
Fly bars can be swung	YES

Standard Operation

Batten point load	at lift line 325kg, between lift lines 60kg
Batten W.L.L.	350kg
Cradle capacity	350kg

With Cradle Extensions

Batten point load	at lift line 400kg, between lift lines 60kg
Batten W.L.L.	500kg
Cradle capacity	500kg

Additional Information

Standard batten weight	24kg
LX bar patch tube weight	120kg
Quest FB weight (per bar)	48kg

SEE HANGING PLOT FOR LINE ALLOCATIONS AND FURTHER INFO

Additional Rigging points none

Hanging Plot:

Line #	Dist. From SL	Line Type	W.L.L	Venue Allocation	Intended Use <i>(hiring company use)</i>
H.C	350mm DS	SP	350kg	House Curtain	Not available
1	150mm DS	SP	350kg	Leg	Not available
2	N/A				
3	250mm	SP	350kg	Projector	Not available
4	N/A				
5	650mm	SP	230kg	LX 1 – patch tube	Not available
6	850mm	SP	302kg	Leg & rigged FB	Not available
7	1050mm	SP	350kg		Available
8	1250mm	SP	350kg		Available
9	1450mm	SP	350kg		Available
10	1650mm	SP	350kg	Border	Not available
11	1850mm	SP	350kg	Leg	Not available
12	2050mm	SP	350kg		Available
13	N/A				
14	2450mm	SP	230kg	LX 2 – patch tube	Not available
15	2650mm	SP	350kg		Available
16	2850mm	SP	350kg	Border	Not available
17	3050mm	SP	350kg	Mid-stage Tab	Not available
18	3250mm	SP	350kg		Available
19	N/A				
20	3650mm	SP	230kg	LX 3 – patch tube	Not available
21	3850mm	SP	350kg		Available
22	4050mm	SP	350kg	Border	Not available
23	4250mm	SP	350kg	Leg	Not available
24	4450mm	SP	182kg	LX4 – patch tube & rigged FB	Not available
25	N/A				
26	4850mm	SP	350kg	LX 5 (LED Par)	Not available
27	5050mm	SP	350kg	Border	Not available
28	5250mm	SP	350kg	Leg	Not available
29	5450mm	SP	350kg		Available
30	5650mm	SP	350kg		Available
31	5850mm	SP	350kg	LX6 (Cyc units)	Not available
32	N/A				
33	6250mm	SP	350kg	Rear Tab	Not available
34	6450mm	SP	350kg		Available
35	6650mm	SP	350kg		Available
*36	6850mm	SP	350kg	Panorama OP	Available
*37	7050mm	SP	350kg	Panorama PS	Available
38	7250mm	SP	350kg	Cyclorama	Not Available

SL: Setting Line as indicated previously

Line Type: **SP** = Single purchase, W.L.L.: Maximum distributed load incl. bar weight and patch tube (if applicable)

* Please note bar 36 and Bar 37 run US to DS (perpendicular).

Drapery:

*Type	Material	Colour	Width	Height	Quantity
House Curtain	Velour	Red	6350mm	6500mm	1
Borders	Wool	Black	12200mm	3000mm	4
Legs	Wool	Black	2200mm	6300mm	4 pair
Tab / Smother	Wool	Black	6400mm	6300mm	2 pair
Cyclorama	Cotton Canvas	White	12200mm	7000mm	1
Scrim	N/A				

Access Equipment:

Elevated Work Platform

JLG 20MVL self-propelled single Man Lifter

Maximum reach is 5970mm

EWP Restrictions

Must be operated by Clocktower Staff.

One additional staff member to be located at base whilst in use. Cannot be used on the ramps.

Ladders

(1) 3 metre platform ladder

(1) 2.4 platform ladder

(2) 1.8m step ladder

(2) 0.9m step ladder

Staging Units:

(4) Ezy Staging Units, 1800 x 2400 x 400/600mm (variable height)

(3) Ezy Staging Treads, 400mm

(3) EziStage 1200 x 2400 x 200mm high (single height)

(6) EziStage 1200 x 2400 x 400/600mm (variable height)

Stage Covers:

Style N/A

Dimensions N/A

Colour N/A

Stage Traps:

Four Traps on either side of stage (mirrored) at 1450mm, 3150mm, 4850mm and 6550mm upstage of SL. All have dimensions of 290 x 150mm.

Safety Curtain:

Safety Curtain installed

No

Loading Dock:

Access

Truck access via Pascoe Vale Road. Up to 8 Tonne Trucks can reverse into loading dock. A time-restricted loading bay carpark is also available next to the loading dock.

Loading Dock Height: **6500mm**

Door Dimensions: **4200mm High**
3200mm Wide

Restrictions / Obstructions

Stage Level is 2100mm above dock/street level.

Goods lift: **1900 x 2200mm**

Inner Roller Door: **3350mm High**
3300mm Wide

PLEASE NOTE: any trucks larger than 8-tonne **MUST** be discussed with the Technical Services Supervisor prior to bump-in.

Staging Notes:

All flown items must be rigged with rated equipment and is subject to approval by Clocktower staff.

Limited rigging gear available in house. All flown items must be approved by Clocktower staff.

The Clocktower Centre reserves the right to refuse any flown item at any time.

All flying operations must be undertaken by Clocktower staff with the exception of the House Curtain.

LIGHTING

Positions:

Stage LX Bars

LX Bars can be swung with **prior** notice to the Technical Services Supervisor.

See hanging plot for standard LX bar positions

FOH Bridge 2

Setting Line to lighting bar **12000mm**

Usable bar width **12900mm**

Notes -

FOH Bridge 1

Setting Line to lighting bar **6400mm**

Usable bar width **12900mm**

Dress Circle Bar

Setting Line to lighting bar **18700mm**

Usable bar width **16500mm**

Notes No patch points available on bar.

FOH Perches (OP & PS)

Perch US (OP & PS) **8200mm (CL), 1800mm (SL)**

Perch DS (OP & PS) **8200mm (CL), 5700mm (SL)**

Maximum lights per perch **(8) Selecon Pacific Zoomspots**

Notes Maximum rigging height 4000mm

Standard Rig:

Static LED rig including Warm/Cool wash, decals, specials and colour wash. See Lighting Plan for details.
Additional fixtures including Moving Light Package available on request at additional cost.

Control:

Lighting desk: **Etc ION Xe20 with 20-fader wing**

Signal distribution: **Pathport Quattro nodes throughout venue via network switch with multiple, customisable universe capacity. sACN network protocol.**

Dimmer Racks:

Total Dimmer Racks	15
2.4Kw Dimmer Racks	Jands HP -11 (Digital)
Total dimmers @ 2.4kw per dimmer	144 channels
5Kw Dimmer Racks	Jands HP - 3 (Digital)
Total dimmers @ 5kw per dimmer	18 channels

House Lights:

Independent control	Yes – Dynalite controlled (separate to LX desk)
Control positions	Control Room and Stage Manager's Console
Fade time adjustable	Yes

Stage Luminaire:

Static LED Profiles

Make	Model	Angle	Detail / Accessories	Watt	Total
Showtec	Performer Profile 600 MkIII	15/30	Zoom/Focus knobs, gobo, iris	260W	34
Showtec	Performer Profile 600 MkIII	25/50	Zoom/Focus knobs, gobo, iris	260W	38

Static LED Fresnels

Make	Model	Detail / Accessories	Watt	Total
Showtec	Infinity TF 260C7	Barndoors, RGB LED Chip	280W	32

Static LED Pars

Make	Model	Angle	Detail / Accessories	Watt	Total
Chauvet	ColorDash Hex 12	MFL	RGBAW + UV	117W	26

Cyc Wash

Make	Model	Detail / Accessories	Watt	Total
Chauvet	Ovation C-640FC	Gel Frames	190W	12

Follow Spots

Make	Model	Detail / Accessories	Watt	Total
Selecon	Pacific	4 colour magazine	1200W	2

Additional

Item	Make	Model	Detail / Accessories	Watt	Total
Mirror Ball	-	18"	18" diameter with motor		1
Blinder	Molefay	Duet	Dimmer	1200W	2
Strobe	Martin	Giga strobe	DMX controlled (2) channels	1500W	
Smoke Machine	Martin	Magnum 1800	DMX controlled		2
Hazer	Martin	Unique	DMX controlled		1

Moving head fixtures

Make	Model	Detail / Accessories	Watt	Total
Infinity	Furion S402 Spot	2 gobo, 1 animation wheel	450W	9
Infinity	Furion P402 Profile	1 gobo, framing	450W	2

Pixel Bars

Make	Model	Detail / Accessories	Watt	Total
Showtec	Candela Pix 100	20° and 40° diffuser frames	212W	6

Venue Patching:

<u>Location</u>	<u>Quantity</u>	<u>Patch Number</u> <i>(PS to OP)</i>	<u>Detail / Accessories</u>
FOH 1	26	25-44 / 75-80	
FOH 2	26	45-64 / 69-74	
LX 1	36	1 - 36	
LX 2	24	1 - 24	
LX 3	24	1 - 24	Nothing rigged as standard
LX 4	24	1 - 24	
LX 5	N/A		Back Light bar
LX 6	N/A		Cyc Unit bar
PERCH DSP	6	13 - 18	
PERCH DSOP	6	19 - 24	
PERCH USP	6	1 - 6	
PERCH USOP	6	7 - 12	

Production Desk:

Production desk set-up at the back of the stalls (row M). Maximum 2 tables (4 people). Talkback, Audio and LX patches available.

Power:

3 Phase Outlets

- (2) 40A under stage on PS
- (1) 40A under stage on OP (dimmer use only)
- (1) 40A tech office.
- (8) 40A PS Gallery (dimmer use only) & (1) 32A PS Gallery
- (2) 40A OP Gallery
- (1) 40A in Foyer
- (1) 40A next to SM desk – AUDIO only
- (1) 40A in Studio space on 2nd floor

Cabling:

240v Extension Cable

The theatre has stock of extension leads.

Looms

- (2) 20m 5-way Weilands
- (2) 20m 8-way Weilands

3 phase Extensions

- (3) 40 AMP 20m

Audio

Allen & Heath C1500 (control room)
Allen & Heath C3500 (stalls)
DM0 – racked (prompt side)
DM32 – onstage (floating)
2 x DT16 – onstage (floating)
RIO 8 Output – gallery (amp rack)

Amplifiers

NEXO – NEXNXAMP4X4C
2 x L-Acoustics LA4X
2 x MC2 Audio T1000 power amplifiers, 2 channel

Speakers:

FOH Speakers

Left and Right 1x Nexo GEOS1210, 2 x Nexo GEOS1230 array

Subs (Centre hung) 2 x Nexo – RS15P

Additional speakers (Foldback or front fill)

- 4 x QUEST HPI 125 overhead monitors rigged on LX 1
- 4 x QUEST HPI 125 overhead monitors rigged on LX 3
- 8 x L'Acoustic X12
- 6 x RCF ART310 powered speaker
- 2 x FunktionOne Minibass 212

Other available mixer options by request:

Yamaha CL1 (control room)

Yamaha CL3 (stalls)

RIO 3224 - racked (prompt side)

RIO 3224 – onstage (floating)

Allen & Heath Qu16

Control Positions:

Control Room

Above Dress Circle. Control Room open to Auditorium

Auditorium

Located at rear of Stalls in the centre of row N or M. Auditorium seats must be allocated if Ops is to be placed in this position.

Other

Prompt side at Stage Manager's console, mixer can be patched through to house system.

Playback*:

Item	Make	Model	Detail	Total
Mac Mini	Apple		Qlab 5, Dante Virtual Sound Card	1

*Hirers must supply suitable adapters for any devices brought in to 3/4" headphone jack.

Microphones & DIs:

Total	Make	Model	Detail / Accessories	Use
2	AKG	CK 31	Condenser Cardioid	Choir
1	Beyer	M88TG	Dynamic HC	Vocal/Kick Drum
3	Beyer	M201TG	Dynamic HC	Instrum./Drum
2	DPA	Defacto II	Wired or wireless with adaptor. Condenser, HC	Vocals
3	DPA	4011C	Condenser Cardioid	Choir/instrument
2	Microtech Gefell	M930	Lg diaphragm Condenser cardioid. Shock mount.	Piano/instrument
2	Shure	KSM141	Condenser Omni/Cardioid	Instrument
4	Shure	KSM137	Condenser Cardioid	Instrument
5	Shure	SM Beta 58a	Dynamic HC	Vocals
3	Shure	SM 57	Dynamic Cardioid	Instrument
2	Sennheiser	EW-DX EM 4 DANTE	Radio Channels Receivers	
8	Sennheiser	EM 500 G3	Radio Channels Receivers	
8	Sennheiser	EW-DX SK	Bodypack transmitter with 3.5 mm jack	
6	Sennheiser	500 G3 SK	bodypack transmitter	
8	Sennheiser	EW-DX SKM/ MMD 945-1 capsule	Handheld Radio Dynamic	Vocals
5	Sennheiser	EW 500 G3/e945 capsule	Handheld Radio Dynamic	Vocals
5	Sennheiser	EW 500 G3 switch/e945 capsule	Handheld Radio Dynamic switch	Vocals
16		JAG IMX6A	Headset mic Condenser Omni	Vocals
6	Sennheiser	MKE2	Lapel mic Condenser Omni	Vocals
2	Sennheiser	E835 S	Dynamic Cardioid Switch	Vocals
1	Sennheiser	E840	Dynamic Super Cardioid	Vocals
2	Sennheiser	E906	Dynamic Hyper Cardioid	Guitar Cab
2	Sennheiser	E904	Dynamic Cardioid	Toms/ Perc
1	Audio Technica	ATM450	Side Address Cardioid Condenser	OH/ Percussion
3	Shure	Beta98 AMP	A75M Stand mount. Condenser Cardioid	Drums/horns
1	Shure	Beta52a	Dynamic cardioid	Kick Drum
1	Shure	MX418	Goose Neck Condenser	Lectern
2	Shure	MX412	Goose Neck Condenser	Lectern
3	Shure	MX393/S	Plate Microphone Condenser	Choir/tap
1	Shure	Beta91A	Plate Microphone Condenser	Kick Drum/instru
2	BSS	Active DI	AR133	
4	Radial	JDI	Passive Direct	
2	Radial	JPC	Stereo Active DI	

3	Radial	USB DI	Stereo	
1	Radial	Pro AV	Passive Stereo DI	
2	Radial	J48	Active DI	
2	ART	Dual Transformer	Stereo	

Accessories:

Item	Model	Detail / Accessories	Total
Microphone Stands	Tripod Base	Long	10
	Tripod Base	Short	1
	Round Base	Long	5
	Round Base	Short	4
	Table stand		3
Lectern			2
Speaker Stands	Tripod Base		4

Patching:

Location	Quantity	Numbering	Detail
Control Room	40	1 – 40	32 sends, 8 returns
Production Point	40	1 – 40	32 sends, 8 returns
OP Wing	24	1 – 24	24 sends
Orchestra Pit	24	1 – 24	24 sends
Rear Stage Prompt	4	1 – 4	4 sends
Rear Stage O Prompt	4	1 – 4	4 sends
Foyer	4	1 – 4	4 returns

*all patch points to prompt Rack

Dante Patching:

Location	Quantity	Detail
Bio Box	3 Primary, 3 Secondary	
Stalls Row N	3 Primary, 3 Secondary	
Amp Rack	2 Primary 2 Secondary	
PS Rack	3 Primary, 2 Secondary	

Cabling:

Audio Cable

The theatre has a good stock of cables to accommodate the venue's audio equipment. The inventory includes 3 pin XLR, speakon and cat 6 cabling. If additional audio equipment is being brought in additional cabling will be required.

AUDIO VISUAL

Projection Room:

- 1x Roland Video Switcher V-60HD
- 1x Blackmagic 12x12 Smart Video Hub
- 1x Blackmagic Design SmartView HD Screen
- 1x Blackmagic Design SmartView Duo
- 1x Mac Mini with Qlab and Microsoft Office
- *Mac users required to bring in own VGA/HDMI adaptors for laptops.

Playback options:

- USB
- CD/DVD
- Laptop with VGA/HDMI connectivity

Projectors:

- 2 x Epson EB-PU 221-6B Laser Projector with 16000 lumens
 - Native Resolution: WUXGA*
 - Aspect Ratio: 16:10*
 - Video imaging should be in HD format, so 1080p/60 or 1080i/60*
- 1 x Mitsubishi board room projector, 3000 lumens
- 2 x Hitachi CP-WX4042WN Boardroom Projectors, 4000 Lumens

Screens:

- Fast fold screen 20'x11'3"
- Cyclorama can be used as a screen.

Projector Rigging Points:

Line 5 (ideal position to fit cyclorama). The Projector can be moved with prior consultation with Technical Services Supervisor.

Line 18 is the maximum upstage position for the fast fold screen when using the rear projector.

Cabling:

The theatre has 8 SDI runs through the building. 2 in prompt corner and 2 in the prompt mid gallery. 2 UHD on dress circle rail and 2 UHD in N row production point.

The theatre has an assortment of SDI, HDMI and VGA cables.

BACKSTAGE

Communications:

Stage Managers Desk

Stage Manager's desk is located in prompt corner. The desk can be moved within its area and is fitted with a light, clock, stage video and audio, talkback and dressing room paging.

Talkback

Master Unit

FreeSpeak II Stand alone Base Station system running two channels

Total sub stations

6 beltpacks (wired) with headsets, 4 squawk boxes

5 wireless beltpacks (FSIIBP) with headsets

Talkback patching located at: **Stage Manager's Desk (master station)**

- **Control Room, lighting, audio, AV, domes x 2**
- **Flys OP**
- **US x 2**
- **Production Position and Centre Stalls**
- **Orchestra Pit**
- **Green Room**

Paging / Show relay

Paging to the dressing rooms is available from the stage manager's desk. Show relay is distributed to all dressing rooms and green room. All rooms have an individual volume control.

Stage Monitor

TVs set-up in green room, foyer and SM position. Camera located centre of bio box

Q Light System

In house Q light system available	No
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Dressing Rooms:

Dressing Room	Recommended capacity	Toilets	Shower	Details
Dressing Rm #1	5	No	No	Accessible toilet/shower adjacent
Dressing Rm #2	5	No	No	Accessible toilet/shower adjacent
Dressing Rm #3	8	No	No	Shared shower & toilets with DR #4
Dressing Rm #4	30	No	No	Shared shower & toilets with DR #3
Studio	60	No	No	Additional room if required
Pascoe half	100	No	No	Additional room if required
Pascoe full	200	No	No	Additional room if required

Laundry / Wardrobe:

Washing Machines	One
Dryers	One
Iron / ironing board	One
Clothes racks	2 mobile racks, each dressing room has fixed rails

Production Facilities:

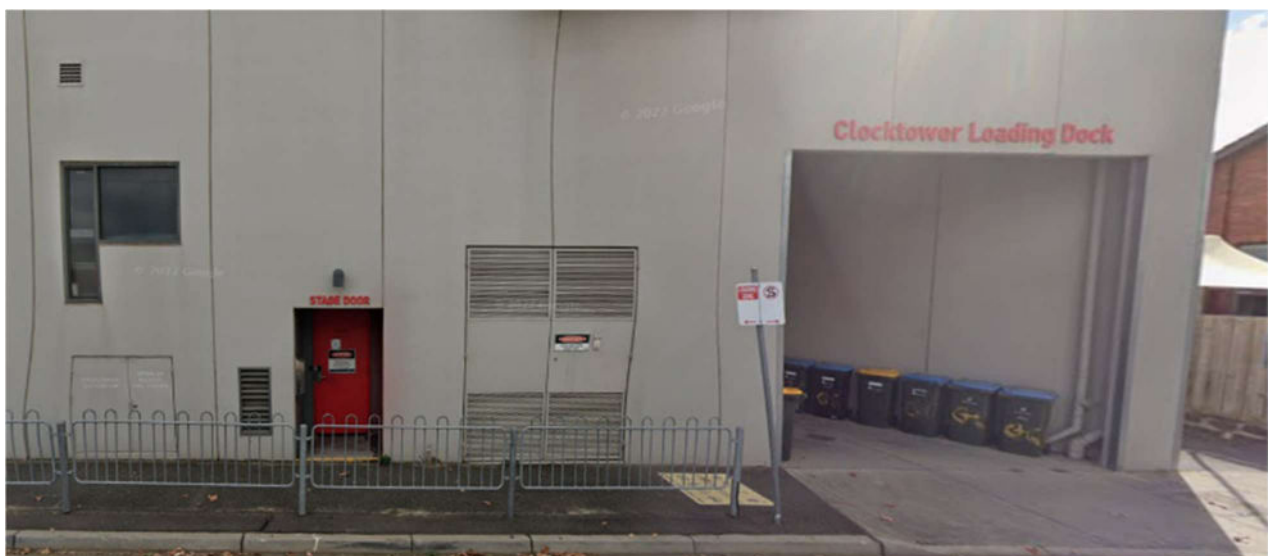
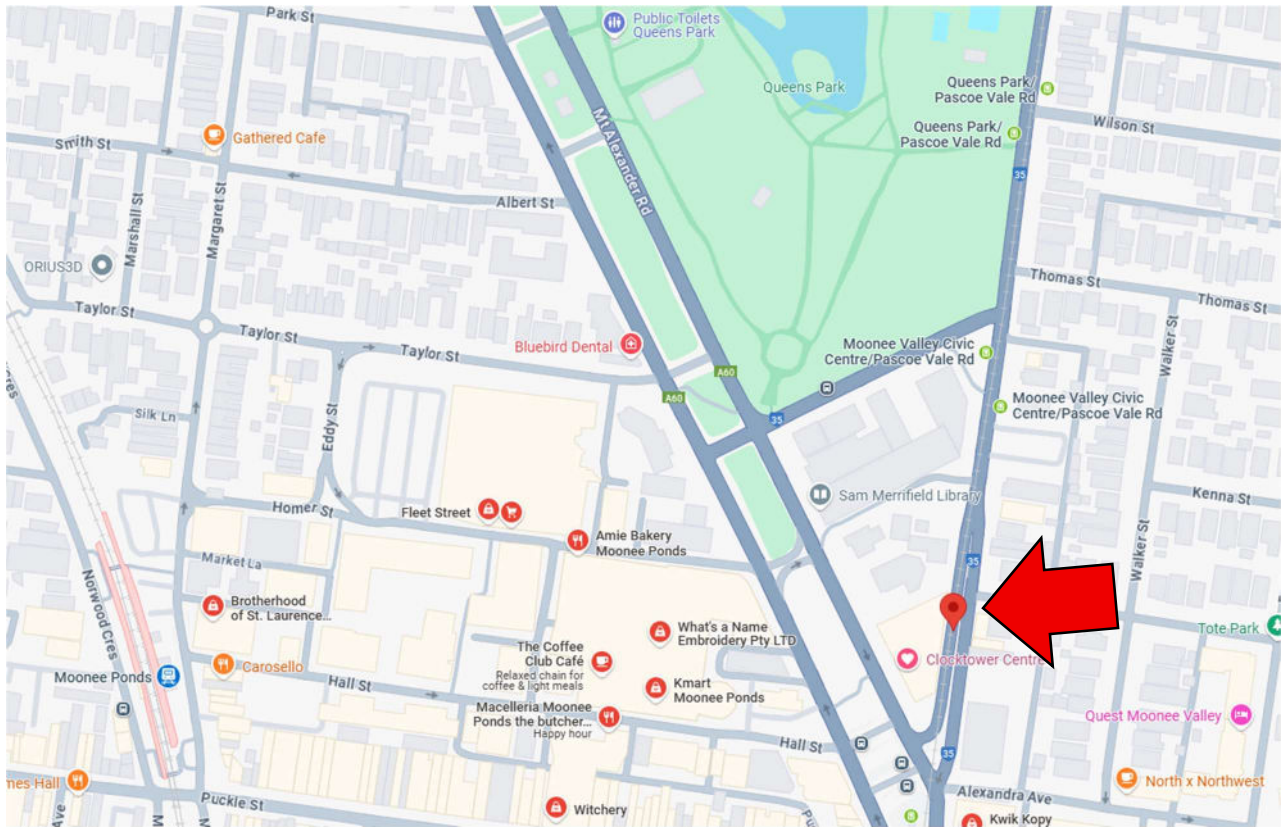
Production Office	No. Dressing rooms can be used as an office
Access to phone	No
Internet Access	Public network available in FOH areas. Limited access BOH

Green Room:

Stage feed:	Yes
Stage relay:	Yes
Clothes hangers:	Yes
Makeup Mirrors:	Yes
Lockable dressing rooms:	Yes
Shower and toilet:	Yes
Boiling Water:	Yes
Filtered Chilled Water:	Yes
Fridge/Freezer:	Yes
Microwave:	Yes
Dishwasher:	Yes
Tea:	Yes
Coffee:	On request
Milk:	No
Ice:	No
Cooking equipment:	No

Stage Door/Backstage Access:

Stage Door is located next to the loading dock on Pascoe Vale Road, Moonee Ponds. This door is unsupervised and kept locked. Access for cast and crew can be through main foyer entrance 08:00 – 16:00 weekdays. Access through the foyer outside these hours can be negotiated during productions meetings or with the venue prior to booking.



ADDITIONAL FACILITIES & INFORMATION

Rehearsal Space:

Studio: 10.5m x 9m, sprung Masonite floor, one wall with large mirrors. Bookings required for use.

Pascoe Room: large blank function space with optional dividing wall. Bookings required for use.

Venue Contacts:

Venue Address **750 Mt Alexander Road, MOONEE PONDS, VIC 3039**

Venue Postal Address **750 Mt Alexander Road, MOONEE PONDS, VIC 3039**

Staff Contacts:

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Venue Plans:

Venue Plan Available

Yes, a PDF emailed upon request.