



THE LOWRY

Technical Specification

The Lyric Theatre

**The Lowry
Pier 8
Salford Quays
M50 3AZ**

Get In

Under cover loading bay for three trucks maximum trailer height 4.5m (14ft 6inch)
(2 for the Lyric Theatre and 1 for The Quays Theatre)

Please confirm parking requirements prior to get-in

Bay dimensions: 10.5m (W) x 15.0m (D) x 4.5m (H)

Trucks load into scene store located to the rear of the Lyric stage.

Loading bay floor level to scene store floor level: 1.2m – Dock levellers installed.

Dimensions of dock doors: 6.3m (W) x 3.1m (H)

Scene store dimensions: 14.8m widest point (W) x 14m (D) x 10.5m (H)

Dimensions of opening from scene store to stage: 12m (W) x 9m (H)

Scene store and stage separated by a vertically moving sound / fire door.

(Cannot be open during performance)

Stage Area

Type of stage: Proscenium

Depth of stage from setting line to rear stage wall: 16.2m (Setting line to last flying bar: 14.7m)

Setting line to front of apron: 800mm

Distance from front of apron to rear of safety curtain: 1200mm

Proscenium width: 14m

Proscenium height: 11.2m

False pros variable height (5.5m to 9.5m) and variable width (8.3m to 13.8m)

Maximum width of stage: 29m to counterweight frame stage right

Clear height to grid: 23m

Clearance under lowest stage gallery: 9.5m

Stage floor flat. Hardboard on plywood sub base resting on resilient pads on battens and sleepers. Paint finish, matt black.

Stage floor loading capacity: 7.5kN/sq.m plus point loads of 10kN @ 1.5m centres over 300mm x 300mm square area. **Please check with technical department.**

Seating capacity

Stalls: 819 max (814 with house seat holds)

Circle: 358

Boxes: 48

Upper Circle Lower section: 297

Upper Circle Top section: 281

Standing: 41

Treads lose 6 seats & can only be used with no pit

Small sound position removes 11 seats

Large sound position removes 14 seats

Small pit removes 17 seats

Medium pit removes 68 seats

Large pit removes 127 seats

Disabled / wheel chair provision at stalls level and first tier boxes

Auditorium treads available SL & SR - Must be confirmed at contract stage

Orchestra Pit / lifts

Lift no. 1	17M x 2M (curved)	Lowered 6 - 10 musicians	(some located under stage under-hang)
Lift no. 2	17M x 2M (curved)	Lowered 45 – 60 musicians	(some located under stage under-hang)
Lift no. 3	17M x 2M (curved)	Lowered 60 to 100 musicians	(some located under stage under-hang)

Lifts 1 & 2 finished as stage floor surface seats removed on drivable wagon

Lift 3 finished with auditorium carpet seats individually removed

Pit net available for medium and large formats only

Please note that auditorium treads cannot be used with a pit format.

Backstage accommodation

Dressing rooms:

Basement:

Orchestra room 1	30	with showers
Orchestra room 2	30	with showers
Conductors	5	with shower and toilet
Leaders	5	with shower and toilet
Basement 1	5	with 3 showers and toilet
Basement 2 (Staff changing)	5	with 3 showers and toilet

Stage level:

Dressing room 1	2	with shower and toilet
Dressing room 2	3	with shower
Dressing room 3	3	with shower
Dressing room 4	3	with shower
Dressing room 5	19	with 3 showers
Dressing room 6	9	with 3 showers
Dressing room 7	8	with shower
Dressing room 8	3	with shower and toilet
Dressing room 9	3	with shower
Dressing room 10	3	with shower
Dressing room 11	2	with shower and toilet
Dressing room 12	4	with shower
Dressing room 21	4	with shower

TOTAL **146**

Wardrobe at ground floor/ stage level and includes 3 X industrial washing machines, 2 X industrial dryers, irons and ironing boards. (All facilities chargeable)

Visiting company office at ground floor / stage level. With 2 telephone points, desk and 13 amp power. Lockable gun cabinet. Broadband internet access is available and a charge for use applies.

Backstage cafeteria / green room at first floor level.

(Please advise of any special catering needs so arrangements can be made with our catering department)

Rigging and flying

Flying operated stage right at fly gallery level.

Automated House Tabs.

79 single purchase 500kg counterweight sets. Please see plan and hanging plot for available bars.

77 cross stage and 2 up/down stage sets.

19M ladder truss pipes at 200mm centres on 6 wires. Pipe extensions available.

Pipe travel: 1170mm above stage floor to 450mm below grid.

Counterweight sets 6, 24, 42, & 60 are **NOT** suitable for 'live' flying as they are situated behind structural RSJ's. Please contact the Technical Office for more information.

1 x up/down truss per side each hung on 3 x 1000kg chain motors.

1 x FOH truss hung on 4 x 1000kg chain motors with 3 x rigging positions.

2 x FOH 2000kg chain motors hung on roller beams for PA hangs

(An NRC House Familiar Rigger is required for use of these for PA hangs; cost of which is rechargeable)

8 x Grid frames points & a selection of beam spreaders are available please ask for details

8 x wall anchor points are located on the stage left wall & anchors from the counter weight frame on stage right are available

Lose Truss and Motors (shared between venues)

2 x 2.5M Litec QX30SA truss

11 x 2M Litec QX30SA truss

5 x 1M Litec QX30SA truss

4 x 90° Litec QX30SA corner pieces

6 x 1T loadstar motors

2 x 4 way motor controllers

(An NRC House Familiar Rigger is required for use of these; cost of which is rechargeable)

Masking

Adjustable proscenium flown on two sets.

Header on CW3 track with hard legs on CW4 - These are fixed.

A full stock of black serge masking.

For info: 5 x	Legs sets	5m wide x 12m drop
5 x	Borders	19mwide x 6m drop
1 x	Border	19m wide x 3m drop
2 x set	Full blacks	2 x 10m wide x 12m drop
1 x	Cyc	19m x 12m
1 x	white gauze	19m x 12m
1 x	black gauze	19m x 12m
1 x set	Full blacks	2 x 9.9m wide x 9m drop (On request, shared between venues)

Access equipment (shared between venues and subject to availability)

2 powered drivable personnel lift, platform height 6M working height 8M, **IPAF or equivalent required.**

1 powered push around personnel lift, platform height 11.1M working height 13.1m **IPAF or equivalent required**

1 Large Tallescope platform height 7.5m working height 9.5M,

1 Medium Tallescope platform height 5.9M working height 7.9M,

Stepladders, hand trucks etc. Please call the technical dept. for full details.

Licensing Requirement

All scenic elements should be made up from non-combustible material and/or inherently flame retardant fabrics. Timber scenery should meet Class 1 when tested in accordance with BS 476 Pt 7. The scenery should be visibly stamped to this effect or its standard should be supported by suitable certification.

Temporary electrical supplies

Scene store	1x	125A	SPN	BS 4343 socket
	2x	125A	TPN	BS 4343 socket
	1x	63A	TPN	BS 4343 socket
	3x	63A	SPN	BS 4343 socket (1 diverted to truck bay)
	1x	32A	TPN	BS 4343 socket

Down stage left		400A	TPN	Power Lock (Veam Connectors ONLY)
	2x	125A	TPN	BS 4343 socket
	2x	63A	TPN	BS 4343 socket
	1x	32A	TPN	BS 4343 socket

Up stage right	1x	125A	TPN	BS 4343 socket
	3x	63A	TPN	BS 4343 socket
	1x	32A	TPN	BS 4343 socket

Grid level stage left	1x	125A	TPN	BS 4343 socket
	2x	63A	TPN	BS 4343 socket
	1x	32A	TPN	BS 4343 socket

Downstage right		200A	TPN	Power Lock (Veam Connectors ONLY)
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Fly floor stage right	1x	63A	TPN	BS 4343 socket
	1x	32A	TPN	BS 4343 socket

Clean earth supplies:

Scene store		125A	SPN	BS 4343 socket
Stage left and stage right		125A	SPN	BS 4343 socket
Adjacent to all sound boxes		13A	SPN	BS 4343 twin sockets

Stage lighting

Control

Lighting control room is situated to the rear of the stalls level with access to the stalls and foyer. Space available for touring console.

Control suite consists of three rooms with interlocking doors, suitable for wheel chair access.

Lighting control – house right – with opening window

Sound control - house centre – with no window

Broadcast / translation room – house left – fixed window

Console:

ETC Gio 4k With 2 x 20 fader wing & 2 x 23inch touch screen

ETC Ion with 2 x 20 fader wing and 2 x 23 inch display (back up / plotting)

1 X rack mounted 4 port NET3 ACN gateway (universe 1,2,3,4)

House lights and working lights are controllable via ETC Paradigm as DMX channels from the lighting desk on a HTP precedent.

Dimmers

EC90. 504 x 3kw and 54 x 6kw. Please enquire re distribution

Building wide Howard Eton DMX and Ethernet System and Patch

Please note that the venue use 2 streams of DMX address for running production/house dimming,

All overhead dimmer outlets are via SOCAPEX connection. All on stage are 15A outlets

Lighting Positions

Front slots left and right	(Pros boom position)
Rear slots left and right	(In line with the dress circle ends)
First tier front and sides	(Dress circle front)
Second tier front and sides	(Upper circle front)
Bridge 1	(12m above stage level 3.3m from the iron line) not suitable for performance
Bridge 2	(16m above stage level 11.3m from the iron line)
Bridge 3	(16.5m above stage level 16m from the iron line)
Followspot room	(16.5m above stage level 19m from the iron line)
Promenade left and right	(At the side of the 2 nd level of the upper circle)

Lantern Stock

N.B. Lighting equipment must be rigged & de-rigged for each visiting company.
The only fixed element of the lighting system is the standard FOH rig & followspots.
Any items moved must be re-rigged as part of the get-out

Bridge 1 (only suitable for top light DS and on the apron)

2 x	Strand Cantata 11/26	1.2kw	MD Specials
12 x	Strand Cantata 18/32	1.2kw	
2 x	Freedom Fresnels	600w	Pit general wash

Bridge 2 (FOH 1)

12 x	14deg ETC Source 4	750w	
6 x	14deg ETC Source 4 Luster2	100w	LED

Bridge 3 (FOH 2)

12 x	14deg ETC Source 4 with iris	750w	
6 x	14deg ETC Source 4 HD Tungsten	100w	LED

Slot 1 (Pros boom)

No fixed units

Slot 2

12 x	19deg ETC Source 4 with iris	750w	6 per side
2 x	Strand Cantata 11/26	1.2kw	Logo gobos

Promenade

8 x	14deg ETC Source 4 with iris	750w	6 per side
2 x	Strand Cantata 11/26	1.2kw	Logo gobos

Upper circle

8 x	19deg ETC Source 4 with iris	750w	
2 x	Freedom Fresnels	1.2kw	Tab warmers

Dress circle

2 x	Freedom Fresnels	1.2kw	Tab warmers
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Loose Equipment

Lanterns are shared between the 3 theatres & must be booked in advance. The Lyric Theatre comes with the standard FOH rig as default, Cyc floods and followspots. Charges apply to some items, which are marked POA.

Profiles

36 x	Strand SL 15/32	600w
18 x	Strand SL 23/50	600w
8 x	ETC S4 19°	750w
16 x	ETC S4 26°	750w
16 x	ETC S4 36°	750w
12 x	Selecon SPX 15/35	800w
12 x	Selecon SPX 25/50	800w

Fresnels / PC's

30 x	Alto Fresnel	2.5kw
16 x	Alto PC	2.5kw
80 x	Cantata Fresnel	1.2kw
36 x	Cantata PC	1.2kw

Par Cans

92 x Par 64 (50 xCP62: 24xCP61: 6xCP60; 12 x CP62 scroller cans)
24 x Par 64 CP62 (mounted on 2x 6way bars)
12 x Par 64 CP61 (mounted on 2x 6way bars)
6 x Par 64 CP60 (mounted on 1x 6way bar)
24 x Par 64 floor cans (10xCP62: 10xCP61: 4xCP60)
12 x Barn doors
24 x CE source 4 Pars
12 x ETC ColorSource Deep Blue LED Par with MFL filter

Floods

9 x	Thomas 4 cell ground row	1kw
9 x	Thomas 4 cell Flood battens	1kw
15 x	Coda 1	500w
8x	Nocturne 1	1kw
7 x	ETC ColorSource Cyc flood LED (POA)	

Followspots

2 x Robert Juliat Aramis 2.5kw HMI

Moving Lights POA

8x Martin MAC 700 moving head profile
22 x Chauvet Rogue R2 LED wash moving head

Miscellaneous items POA

3 x ETC 2 port, portable NET3 ACN gateway (can be input or output)
1 x ETC 1 port, portable NET3 ACN gateway (can be input or output)
1 x MDG Atmosphere hazer
1 x MDG ATme hazer
3 x Look Solution Unique 2 hazers
2 x Look Solution Viper NT fog generators
1 x Look Solution Tiny C07 small battery-driven fog generator
2 x 16inch mirror balls
1 x Anytronics DMX strobe
2 x Thunderdroom 3000 DMX strobe
1 x 6 way Le-Maitre Pyro firing unit
1 x Bomb tank
10 x Le-Maitre pyro firing pods – 2 x angled pods
Various birdies, Various stands/cables/multicores etc.

Visiting companies must supply their own gel though a small stock of Pre-cut colour is available F.O.C.

Use of Pyrotechnics, smoke, vapour, laser & other special effects.

The Lowry MUST be informed prior to the production arriving at the venue that a company intends to use special effects. The full details along with risk assessments must be supplied and in some cases these need to be passed to the licensing authorities before authorisation to use them is granted.

Updated 06/11/2018

Sound and communications

Audio tie line infrastructure

48 way starquad audio tie line loop for microphone circuits, terminating on 3 x 16 way multipin sockets at each stage corner, orchestra pit, sound control room and mixing location

centre stalls.

32 way starquad audio tie line loop for output/return circuits, terminating on 2 x 16 way

multipin sockets at the sound control room, mixing location centre stalls, audio rack room,

communications rack room, stage left and right touring sound location.

Loudspeaker line infrastructure

Bi-amped loudspeaker lines on NL4 sockets to stage, sub-stage, pit, fly galleries, proscenium slots. Non bi-amped loudspeaker lines to side and rear auditorium at all levels and to under balcony delay locations. Loudspeaker lines terminate on loudspeaker patch in coms rack room, with bi-amped lines to off stage left and right touring sound locations.

Sound mixing console

Yamaha QL5 Digital Console with RIO 3224D stage box

Subject to availability alternative house consoles are:

Soundcraft Vi3000 Digital Console with digital stage box

Yamaha LS9-16 Digital Console

Soundcraft Series 5 24 mic channels /4 Stereo channels

Allen & Heath Mix Wizard 14:4:2 10 mic channels/2 Stereo Channels

The console is normally located in the sound control room to the rear of the stalls level. The room is open to the auditorium with no window. A position is available immediately in front of the control room on request, dimensions for this auditorium positions are 3.6M X 1.75M (large), 2.3M x1.75M (small) this does result in a loss of seating capacity.

This position is subject to management agreement & must be agreed at contract as seats need to be removed from sale.

Installed loudspeaker system

(Suitable for spoken word, theatre playback, comedy, jazz & folk music; for music gigs we would recommend the hire or supply of additional Left/Right or flown PA; these costs are re-chargeable)

Loudspeakers installed

Loudspeaker system processing: A&H iDR8/16

Proscenium:	6 x Meyer MSL2-1C	4 inputs Stalls L/R, Circle & Tier L/R
Side fill:	2 x Meyer UPA-1C	2 input L&R
Stalls Sub bass:	2 x D&B B22	1 input
Upper Circle Sub bass:	2 x Meyer USW-1	1 input
Front fill:	6 x D&B E6	2 inputs Inners & outers
Stalls Delays:	8 x D&B E6	2 inputs Inners & outers
Circle Delays:	8 x D&B E6	2 inputs Inners & outers
3 rd Tier Delay:	7 x Meyer UPM-1	1 input
Central cluster:	4 x Meyer UPA-1A	2 inputs upper & lower

(2 additional MSL2's can be added to the stalls for additional level & coverage)

Loudspeakers non-installed (Subject to availability & a hire cost; up to 4 wedges are included per venue)

Foldback / effects:

- 6 x APG DX12 (can run as 6 mixes) (No flying frames) (Speaker stand compatible)
- 8 x APG DX15 (can run as 8 mixes) (No flying frames) (Speaker stand compatible)
- 8 x Nexo PS-15 (can run as 6 mixes; 6 flying frames available)
- 2 x Meyer UPA 1P (Self Powered; No flying frames)
- 4 x Meyer UPA 1C (can run as 4 mixes) (flying frames available)
- Extra Sub bass 2x Nexo LS-1200 (can run with PS15 as Drum fill or extra FoH)

Outboard equipment

- 1 x PC with control of iDR8 processor & EQ for FOH system
- 1 X Mac Mini with Q-Lab 3 & Saffire PRO 40 Focusrite sound card
- 1 x MacBook pro with Qlab 3 (poa)
- 1 x Neumark twin Compact disc –player

Microphones

(This equipment is shared between 3 theatre spaces corporate facilities & must be booked in advance)

- 8 x Shure Beta 58
- 8 x Shure 58
- 4 x Shure Beta 57
- 4 x Shure 57
- 2 x Shure Beta 87
- 5 x Sennheiser MKH40
- 2 x Sennheiser MKH60
- 4 x Sennheiser E604 Evo drum mics
- 8 x Crown PCC160
- 1 x AKG 414B-ULS
- 2 x AKG 414B-XLS
- 8 x AKG CK91
- 2 x Beyer 201
- 2 x Beyer M88
- 1 x Beta Shure 52
- 4 x DPA 4099 (Classical kit)
- 2 x Budget switched vocal mics
- 10 x BSS Active DI

Radio microphones (Subject to availability and a hire cost)

- 1 x Shure ULX-D 2 way receiver racks
- 2 x Shure ULX-D 4 way receiver racks
- 4 x Shure ULX-D Handheld radio mics with SM58 or SM58 Beta
- 2 x Shure ULX-D Handheld radio mics with SM58
- 6 x Shure ULX-D body pack
- 6 x Shure MX 185 clip mic heads
- 6 x DPA 4061 clip mic heads
- 6 x DPA 4066 head mics
- 2 x Shure GLX-D 2.4Ghz SM58 systems (Suitable for Q&A; God Mic use etc)

Selection of stands, cables, connectors are available.

Please check with the technical department for frequencies available for toured equipment.

Please note we hold a venue licence for shared channel 38 but this may be allocated to another production. Please be advised that Media City is located next to our venue and use some Channel 38 radio mics, we would always recommend using site specific licenced channels where possible. We hold 23 spot frequencies on channel 40-45 which are allocated to our own theatre radio mics & corporate AV department radio mics. By request 5 of these frequencies are available for tour use. On occasion we are able to release spot frequencies held for house equipment to allow tours to book whole blocks of channels. This must be agreed in advance and requires us as the venue to authorise their release to OFCOM:

626.000(40); 626.600(40); 630.850(41); 636.600(41); 638.200(42)

Specific frequency allocations MUST be approved in advance of arrival to avoid issue with other productions & events taking place at the same time. The Lowry will not permit the use of radio equipment without this advanced detailed notice.

Loudspeaker & Floor Mounted Equipment.

The visiting producer shall ensure that the location of speaker stacks where possible are located upstage of the fire safety curtain, and that if speakers must be located beyond this point that they are securely fixed, do not obstruct sightlines and provide a minimum of 3m separation to the nearest seat which will require the removal of seats from sale prior to the engagement.

In all circumstances no equipment shall obstruct the fire safety curtain.

Stage managers desk; Ring intercom & Video System

A mobile GDS SM desk connects either stage left or stage right, paging control and four-channel Clearcom Helixnet intercom master station & cue light control, patchable system with boxes normally located at LX control, sound control & fly floor please check for availability of Q-lights boxes. The desk is equipped with 3 colour video monitors. A BNC 75ohm patching system with distribution is available. 2 video cameras: 1 x colour, 1 x IR Camera Show relay and call system to backstage areas are installed.

Clear-com digital Helixnet party line coms system & 4 way 2channel RTS radio coms system is installed. Helixnet twin channel belt packs and headsets are located at LX control, sound control, fly floor, follow-spots & Stage Mangers desk. Please check for availability of additional sets.

Assisted listening system

Two channel Sennheiser infrared listening system suitable for use by hearing impaired persons & audio description.

A Sennheiser Mobile Connect system is installed for customers to access show relay and audio description, when available, via compatible mobile devices.

AV Equipment

Subject to availability and a hire cost:

1 x Panasonic PT-DZ770EJK (7,000 Lumen single chip DLP projector).

1 x Panasonic RZ970 (10,000 Lumen, laser light source)

Each projector has a flying frame supplied with a lens which we have the options of a Standard lens (1.7 – 2.3) or Short throw lens (0.8 –1).

1 x 4.2m x 3.6m screen with front and rear surface options is available (This gives a 16x9 ratio screen size)

A MacBook Pro can be supplied for PowerPoint; Keynote or QLab3 (Stereo Audio only from the on-board sound card)

Other projector options are hired in from a local AV firm whom we are able to obtain competitive rates from. Please enquire if you have a specific AV set-up you require.

Bar No.	From edge of stage	From CW 2 (setting line)	From CW 6	Notes
1	1.3	-0.2	-1	Surtitles only
2	1.5	0	-0.8	House Tabs
3	1.7	0.2	-0.6	Hard Header
4	1.9	0.4	-0.4	Adjustable Pros Panels
5	2.1	0.6	-0.2	Show Cloth Only
6	2.3	0.8	0	LX 1 Pre-Wired Bar Not Suitable For Live Flying
7	2.5	1	0.2	
8	2.7	1.2	0.4	
9	2.9	1.4	0.6	
10	3.1	1.6	0.8	
11	3.3	1.8	1	
12	3.5	2	1.2	
13	3.7	2.2	1.4	
14	3.9	2.4	1.6	
15	4.1	2.6	1.8	
16	4.3	2.8	2	
17	4.5	3	2.2	
18	4.7	3.2	2.4	
19	4.9	3.4	2.6	
20	5.1	3.6	2.8	
21	5.3	3.8	3	
22	5.5	4	3.2	
23	5.7	4.2	3.4	
24	5.9	4.4	3.6	Not Suitable For Live Flying
25	6.1	4.6	3.8	
26	6.3	4.8	4	
27	6.5	5	4.2	
28	6.7	5.2	4.4	
29	6.9	5.4	4.6	
30	7.1	5.6	4.8	
31	7.3	5.8	5	
32	7.5	6	5.2	
33	7.7	6.2	5.4	
34	7.9	6.4	5.6	
35	8.1	6.6	5.8	
36	8.3	6.8	6	
37	8.5	7	6.2	
38	8.7	7.2	6.4	
39	8.9	7.4	6.6	
40	9.1	7.6	6.8	
41	9.3	7.8	7	
42	9.5	8	7.2	Not Suitable For Live Flying
43	9.7	8.2	7.4	
44	9.9	8.4	7.6	
45	10.1	8.6	7.8	
46	10.3	8.8	8	
47	10.5	9	8.2	
48	10.7	9.2	8.4	
49	10.9	9.4	8.6	

50	11.1	9.6	8.8	
51	11.3	9.8	9	
52	11.5	10	9.2	
53	11.7	10.2	9.4	
54	11.9	10.4	9.6	
55	12.1	10.6	9.8	
56	12.3	10.8	10	
57	12.5	11	10.2	
58	12.7	11.2	10.4	
59	12.9	11.4	10.6	
60	13.1	11.6	10.8	Not Suitable For Live Flying
61	13.3	11.8	11	
62	13.5	12	11.2	
63	13.8	12.3	11.5	
64	13.9	12.4	11.6	
65	14.1	12.6	11.8	
66	14.3	12.8	12	
67	14.5	13	12.2	
68	14.7	13.2	12.4	
69	14.9	13.4	12.6	
70	15.1	13.6	12.8	
71	15.3	13.8	13	
72	15.5	14	13.2	
73	15.7	14.2	13.4	
74	15.9	14.4	13.6	
75	16.1	14.6	13.8	
76	16.3	14.8	14	
77	16.5	15	14.2	
78	Stage Right	0	0	
79	Stage Left	0	0	

Technical Contacts

The Lowry Theatre
Pier 8
Salford Quays
M50 3AZ

Administration	0161 876 2020
Stage Door	0161 876 2107
Box Office	0161 876 2000
Security (24hrs)	0161 876 2111

Please can all advance show information be sent to Phil Maxim.

Technical Services Manager

Phil Maxim

Direct Line

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Technical Manager

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Technical Manager

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