the
ROYAL & McPHERSON
theatres society

Royal Theatre

Technical Information

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General Information

The Royal Theatre opened in 1913 as a privately built and operated roadhouse. It has hosted many of the world's great performers on its stage, including Sarah Bernhardt, Carlos Montoya, Mikhail Baryshnikov, and Luciano Pavarotti. The original foyer was augmented by lobby extensions completed in 1991, while the auditorium retains its original Rococo/Renaissance Revival decor. Extensive technical upgrades, restoration work to the auditorium, and refurbishment of the dressing rooms took place in 2002, along with the installation of new seating. A complete restoration of the façade, which earned awards from the Hallmark Society and the Heritage Canada Foundation, was completed in 2006.

The Royal Theatre was designated a site of national historic significance in 1987, and received a commemorative plaque from the Historic Sites and Monuments Board of Canada in 1990.

'The Royal' hosts a wide assortment of touring and local acts and events, including the Victoria Symphony, Pacific Opera Victoria, international dance companies presented by Dance Victoria, Broadway In Victoria, and Ballet Victoria.

Contact information:

Administration:	(250) 361-0800
Fax line:	(250) 361-0805
Box office:	(250) 386-6121 Toll-free: 1-888-717-6121
Website:	http://www.rmts.bc.ca/
E-mail address:	marketing@rmts.bc.ca
Mailing address (office):	Royal and McPherson Theatres Society 302-1005 Broad St. Victoria BC V8W 2A1
Street address (theatre):	805 Broughton St. Victoria BC V8W 1E5
Main entrance & box office location:	800-block Broughton St. near Blanshard St. South side of street (eastbound lane)
Stage door & loading door location:	900-block Blanshard St. (BC Highway 17) East side of highway / northbound lane Doors are on west side of building

Administration:

Executive Director:	Jennifer Johnson	(250) 361-0801	jjohnson@rmts.bc.ca
Technical Director:	Warren Busby	(250) 361-0818	wbusby@rmts.bc.ca
Rental information:	Caitlin North	(250) 361-0825	cnorth@rmts.bc.ca
Marketing information:	Derek Cooper	(250) 361-0802	dcooper@rmts.bc.ca
Box Office Manager:	Melissa O'Shea	(250) 361-0808	moshea@rmts.bc.ca
Front of House Manager:	Kristen Iversen	(250) 361-0809	kiversen@rmts.bc.ca

Technical information URL:

Technical documents and drawings for the Royal Theatre are available online at:

http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info

Please check for updates as applicable.

Front of House

Seating Capacity:

Main floor	736	691 with full orchestra pit
Balcony	642	
Loges	24	
Boxes	14	
Wheelchairs	10	(Included in main floor count of 736)
Total capacity	1416	1371 with full orchestra pit

Configuration:

Proscenium theatre, conventional seating, four aisles
One balcony, loges at front of balcony, side boxes at balcony level
Wheelchair seating is at the back of the main floor only.

Seating holds:

The RMTS holds 14 house seats, plus 14 seats in reserve.
6 box seats (3 per side) are sold as "partial view" for all events.
Use of the full orchestra pit requires the removal of 45 seats (main floor rows AA & BB).
Use of rental or touring consoles may require up to 20 holds at the rear of the main floor.
Use of a rental or touring PA may require 14 holds for potentially obstructed sightlines.
Additional holds must be arranged for video camera positions, etc.

Production position:

Located at rear of main floor, centre section, behind Row Y.
See details under "Sound – Location". Contact theatre if this area is to be used.
Wheelchair areas (back of main floor, left and right) are not available for production equipment.

Box office:

Hours are 10:00 a.m. to 1:30 p.m. and 2:00 p.m. to 5:00 p.m. Monday through Friday, and from two hours prior to any performance until one half hour after showtime. Reduced hours during summer. Tickets for the Royal Theatre are also sold at the McPherson Playhouse box office.

Front of House staff:

Box office attendants, ushers, ticket takers, concessionaires, bartenders and coat check attendants are provided. Merchandise sellers are available by advance arrangement.

Normal length of intermission: 20 minutes

Related equipment:

2	Folding display boards	Black/grey 11'-8' W x 7' H (3.56 x 2.13 m)
8	Folding display easels	Aluminum, light-duty
9	6' x 2'-6" (1.8 x 0.76 m) folding tables	7 white, 2 grey
3	4' x 2' (1.22 x 0.61 m) folding tables	White
120	Folding armless chairs	Grey
1	Lectern, blonde oak finish	Shared with stage – check for availability
1	Yamaha C5	6'-7" conservatory grand piano Shared with stage – check for availability
5	Sennheiser EKI 830 / EZT 3011 Hearing assistance receivers	Infra-red bodypack receivers with inductance loops, for use with either headphones or compatible hearing aids/cochlear implants
10	Sennheiser RI 150 Hearing assistance receivers	Infrared mono stethoset receiver
	Lobby video, audio, paging/chimes, emergency paging, video signage	See under "Sound", p.16

Stage

Stage dimensions:

Proscenium opening – width:	37'-10" (11.53 m) 38'-0" (11.58 m)	From stage floor to +16" (0.41 m) From +16" (0.41 m) to top of prosc.
Proscenium opening – height:	32'-10" (10.01 m)	Height at center – proscenium curves down slightly towards sides. Playing height is set by soft goods.
Plaster line to US wall:	38'-6" (11.73 m)	Clear depth to pilasters
Plaster line to apron edge:	1'-10" (0.56 m)	Plywood footlight-trough cover only
Center line to SR wall:	44'-0" (13.41 m)	Clear width to pilasters
Center line to SL wall:	44'-0" (13.41 m)	Clear width to pilasters
SR wing free height:	25'-4" (7.72 m)	With side truss at maximum height
SL wing free height:	25'-4" (7.72 m) DS 22'-0" (6.70 m) US	With side truss at maximum height With piano at maximum height
Center line to SR fly floor:	30'-0" (9.14 m)	
Center line to SL fly floor:	30'-0" (9.14 m)	
Stage floor to under grid:	74'-0" (22.6 m)	

Fly information:

Total sets of lines:	58
Occupied lines:	14 – hemp sets (house masking – may be cleared) 4 – winched house electrics (not available for scenery) 6 – counterweight sets (main drape & orchestra shell –cannot be cleared) 2 – hemp sets (grand valance and Surtitle screen – cannot be cleared) 1 – hemp set permanently obstructed by video screen (out of service) 1 – fire curtain (winched – not available) Video screen is hung on chain motors – cannot be moved Cyc electric is hung on truss/chain-motors, which blocks 4 line-sets above Cyc electric truss may be re-spotted – contact TD
Available lines:	26 – with house masking and cyc electric in place (hemp sets) 44 – with house masking and cyc electric cleared (hemp sets) 1 – truss set (SL-SR) on chain-motors – normally hung US as storage 2 – side truss sets (US-DS) on manual chain falls
Loading capacity:	Hemp set – 400 lbs. uniformly distributed Doubled hemp set – 800 lbs. uniformly distributed House electrics – 1000 lbs. uniformly distributed Side truss – 1000 lbs. uniformly distributed US truss – 1500 lbs. uniformly distributed
Length of pipes:	House electrics: 52' (17.7 m) – cannot be extended Pipes: various lengths up to 55' (16.8 m) x 1.5" sched.40 Wooden battens: various lengths up to 58' (17.7 m) Side trusses: 32' (9.75 m) x 12" box US truss: 48' (14.63 m) x 12" box
Max. flying width:	58'-0" (17.68 m)
Max. flying height:	73'-0" (22.25 m) for all available hemp sets 37'-6" (11.43 m) for house electrics #1-4 (max. pipe height) 32'-0" (9.75 m) for orchestra shell #1-5 (max. clear height)
Line-set spacing:	6" (0.15 m) between most hemp sets. See line list for full details.
Operation:	SR fly floor, at 29'-6" (9.00 m) above stage floor. Main drape is operated from stage level DSR.

Stage notes:

Orchestra shell towers store in wings, one stack of four per side.
Each stack covers a roughly triangular area with outside dimensions of 8’ x 10’ (2.4 x 3 m).
Stairs to dressing rooms are located USR and DSL. USR stairwell is enclosed.

See drawings for details. https://www.rmts.bc.ca/rental-information/royal-theatre-technical-info

Please check for updates as applicable.

IMPORTANT NOTE: The fire curtain must not be impeded, by order of the Victoria Fire Department.

Fly system notes:

Contact the Technical Director in advance regarding any flying requirements.
All available lines are 5-line ‘hemp-rigged’ sets (1/2" diameter synthetic rope, 13’ spans).
A capstan winch is used to assist in rigging heavy loads on hemp sets.
House masking trims: 23’-0” (7.01 m) border height, 38'-0" (11.58 m) leg opening.
See line list for full details. http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info
Please check for updates as applicable.

Rigging information:

Contact the Technical Director in advance regarding all rigging requirements.
There are no available rigging points anywhere downstage of the proscenium.
Maximum load on lowest-rated grid point: 1/2 ton (453 kg).
2 – 1 tonne Chainmaster BGV-D8 hoists are normally available for general use.
Additional motors: three for US truss, three for Cyc LX truss.
A point is rigged center stage at 30’-8” (9.35 m) (hook height) above the trapdoor, for loading large wardrobe crates into the dressing room area using a house chain-motor.
Large house projection screen is permanently rigged from 2 – ½ tonne chain-motors.

Stage floor:

Maple, stained dark brown, from centre-line to 20'-7" (6.27 m) SL and SR
Offstage is surfaced with Masonite.
Lagging, nailing and screwing into stage floor is not permitted.

Trap Door:

One "Hamlet" trap, located at centre stage. No trap elevator.
Note that large wardrobe crates can be loaded into dressing rooms through this trap door only.

Door size:	9'-0" w x 5'-9" (2.74 x 1.75 m) in three sections
Clear opening:	9'-0" w x 5'-1" (2.74 x 1.55 m)
Height:	12'-2" (3.71 m) from stage floor to green room floor
Location:	Center of opening is 15'-8" (4.78 m) from plaster line

Elevators:

None. See note under “Wardrobe – Access” regarding load-in to dressing rooms.

Stage Equipment

Draperies:

Legs:	10	13’-0 W x 33’-10” H	Black 25 oz. velour, flat
Borders:	5	58’-0” W x 12’-0” H	Black 25 oz. velour, flat
Backdrop panels:	4	30’-0” W x 33’-10” H	Black 25 oz. velour, flat
Cyclorama:	1	58’-0” W x 37’-6” H	White filled leno
Scrim:	1	58’-0” W x 38’-0” H	Black sharkstooth
Scrim (spare):	1	58’-0” W x 34'-0” H	Black sharkstooth
Grand Valance:	1	40’-0” W x 10'-0” H	Red 32 oz. velour, shirred, scalloped
Main Curtain:	1	41’-0” W x 30’-0” H	Red 32 oz. velour, fullness, in two panels
German tabs:	6	4’-0” W x 26’-0” H	Black 36 oz. velour (fair condition)
Drape panels:	8	9’-10” W x 50’-0” H	White voile

Note: Main drape and backdrops are guillotine only. No traveller tracks are available.

Risers: Wenger Versalite, black phenolic surface.

10	4' x 8' (1.22 x 2.44 m)	With leg-sets for 8”, 16”, and 24” height
4	4' x 4' (1.22 x 1.22 m)	With leg-sets for 8”, 16”, and 24’ height
4	16” H x 24” W (0.41 x 0.61 m)	2-step units, plywood, black
2	16” H x 32” W (0.41 x 0.81 m)	2-step units, plywood, black

Chairs: 70 – Global FP10, armless, black, padded pan and back
Stools: 6 – 30” (0.76 m) high backless plain wooden bar stools, dark brown
Lectern: 1 – blonde oak finish
Tables: 2 – 4’ x 2’-0” (1.22 x 0.61 m)
2 – 6’ x 2’-6” (1.83 x 0.76 m)
2 – 8’ x 2’-6” (2.44 x 0.76 m)

Dance floor: Harlequin “Cascade”, black, 49’ W x 33’ D (15 x 10 m), by advance arrangement only. Panels are 2m (6’-6”) wide. Orientation SL-SR only
Ballet barres: 6 – 10’ (3.0 m) sections x 44” (1.1 m) H, 1.5” aluminium pipe, Kee-Klamp stands

Personnel lifts: 1 – MEC Handy Herman 24D, platform height 24’ (7.3m), capacity 300 lb (136 kg)
1 – Genie AWP30S, platform height 29’-6” (9.0 m), capacity 350 lb. (159 kg)
Scaffold: 1 – Metaltech Jobsite 6’ Baker (1 or 2 units high), 12’ (3.6 m) max. platform height
Ladders:

1	32' (9.7 m)	Featherlite 3224 Type 1 aluminum extension ladder
1	24' (7.3 m)	Featherlite 3224 Type 1 aluminum extension ladder
1	12’ (3.6 m)	Louisville FS1512 Type 1A fibreglass step ladder
1	10’ (3.0 m)	Allright F586-10 Type 1 fibreglass step ladder
2	8’ (2.4 m)	Louisville FS1508 Type 1A fibreglass step ladder
1	5’ (1.5 m)	Louisville FS1405 Type 1AA fibreglass step ladder
2	18’ (5.5 m)	Allright 420/18 Type 1A wooden extension ladder
2	16’ (4.8 m)	Allright 420/16 Type 1A wooden extension ladder FOH lighting positions only

Miscellaneous: 2 – sets of removable stairs from aisles to stage
3 – hand trucks (standard / chair-mover / convertible)
3 – flat 4-wheel dollies
5 – Yellow Jacket YJ5-125 5-channel cable protectors
Assorted cable mats, drum carpet

Orchestra and Related Equipment

Orchestra shell: Wenger “Stage Master”. Consists of four flown headers to form ceiling, one flown US wall, and 8 rolling towers to form side walls. See note under “Stage” regarding storage of shell towers in the wings.

Music stands: 10 – Manhasset Model #48
Music stand lights: 10 – Manhasset Model #1000, 40W lamps
Conductor's rostrum: 1 – Wenger, 3' x 3' x 8" H (0.9 x 0.9 x 0.2 m H), no railing

Drum shield: 1 – 5’ H x 4 hinged sections 2’ wide (1.5 m x 0.61 m *4)
Drum carpets: 2 – 8’x 6’-6” (2.44 x 1.98 m), dark grey

Pianos: 1 – Yamaha C5 6'-7" conservatory grand (lobby or stage)
1 – Steinway Model D 9’ concert grand (stage only)

Piano tuner: House tuner only, arranged through the Technical Director.

Orchestra Pit

Specifications:

Access:	2 sets of stairs from green room (DSL and USR)
Depth below stage floor:	5'-1" (1.55 m)
Depth below house floor:	1'-3" (0.38 m)
Pit length:	46'-6" (14.1 m)
Pit width:	7'-0" (2.1 m) at center
Accommodated musicians:	Approximately 16
Expanded pit length:	Approx. 50' (15.3 m)
Expanded pit width:	Approx. 12' (3.6 m) at center
Accommodated musicians:	Approximately 38
Elevators:	None

Notes: Pit is expanded by manual removal of risers and 45 seats. Large instruments must load in from stage or auditorium. Contact theatre well in advance if full pit is to be used.

Loading Area

Location: 900 block Blanshard St. (Hwy 17), east side of theatre

Distance from stage: Approx. 50' (15 m) from truck to S.L. wing

Loading dock: None. Load-in is from reserved street parking only.

Loading doors: Exterior door: 9'-5" W x 13'-0” H (2.9 m W x 3.9 m H) located at sidewalk
Interior door: 9’-6” W x 12’-6” H (2.9 m W x 3.8 m H) located at SL wing

Notes: Permits for reserved street parking must be arranged with theatre in advance.
All gear must travel down an interior ramp approx. 26'L x 5'H x 15'W (8 x 1.5 x 4.5 m).
A maximum of 9 street parking spaces can be reserved on Blanshard St. for loading.
Dimensions: ~100’ lineal (5 spaces) north of door, ~85’ lineal (4 spaces) south of door.
Large crates for dressing rooms must load in through trap located centre stage.
Theatre provides chain-hoist and slings for loading in through trap.

Lighting

Dimmers: 264 – 2.4 kW ETC Sensor dimmers, DMX-512, ETCNet3
12 – 575 W ETC SmartBar 2 dimmers (3 units x 4 dimmers, located on balcony rail)

Control: ETC Gio – 4096 outputs, WRFU
ETC Ion Remote Processor Unit – rack-mounted tracking backup
Net3 remote video interface 3 (RVI3)

Location: House lighting console is located in booth at rear of main floor.
Touring lighting consoles must be set up in adjacent production area.
Contact theatre if the production area is to be used.
See details under "Sound – Location".

Houselights: Operation is from lighting control booth only, via ETC Unison Paradigm Touchscreen
Auxiliary on/off houselight switches are located DSR and in FOH office.

Lighting positions: See below for house lighting plot URL.

House electrics 1-4	Onstage	52' pipes, max load 1000 lb.
Cyc-light truss	Onstage	52' pipe, underside of 56' x 12" box truss Moveable by advance arrangement only
Side trusses SL/SR	Onstage, 30' from CL	32' x 12" box truss. Max. height 25'-4"
Box fronts SL/SR	Near prosc. at stage level Throw: 20' approx.	Short booms, very limited space Includes permanent architectural lighting
Box pipes SL/SR	Above boxes, near prosc. Throw: 40' approx.	House hang/focus only – see below **Not available for re-hang or re-focus**
Circle rail	Front edge of balcony Throw: 50' approx..	Max. load 30 lb. per foot **Scaffold access only**
Balcony booms SL/SR	Sides of balcony Throw: 70' approx..	Max. 18 instruments per side **Fall arrest required to hang and focus**
Far pipe	Rear of balcony Throw: 120' approx..	Max. 24 instruments Located in projection/followspot booth at rear of balcony

IMPORTANT NOTE: The box pipe positions must be used "as is". See additional note below.

Lighting circuits: Circuits are dimmer-per-circuit, except as noted.

House electrics 1-4:	132 circuits	
Multi-cable drops:	48 circuits	All from SL fly floor
Stage level:	18 circuits	
Floor pockets L/R	2 circuits	1 per side – repeated in orchestra pit
Orchestra pit L/R	2 circuits	1 per side – repeated in floor pockets
Box fronts L/R	6 circuits	3 per side – repeated on prosc. wall
Box pipes L/R	8 circuits	4 per side
Circle rail	12 circuits	575 W
Balcony booms L/R	32 circuits	16 per side
Far pipe	24 circuits	

Note: See under "Auxiliary Power" for non-dims, shore power, motor power, FOH transfer, convenience outlets

Lighting instruments:

2	Vari-Lite VL2600 Profile	Automated LED profile	550 W	CMY mixing
8	Vari-Lite VL2600 Wash	Automated LED wash	550 W	CMY mixing
5	Vari-Lite VL1100TS	Automated ERS	1000 W	
8	Vari-Lite VL500	Automated wash	1200 W	Narrow lenses installed
12	Ayrton Eurus TC Profile	Automated LED spot	550 W	CMY mixing
4	Ayrton Mistral TC spot	Automated LED spot	300 W	Hung FOH
4	Ayrton Diabolo TC profile	Automated LED profile	300W	Hung FOH
16	ColorBlaze 72	3-colour LED striplight	425 W	10 degree
6	Altman SkyCyc	4-way cyc light	4x 1 kW	(Note: in storage) OLD
6	Altman Zip Strip	3-way striplight	3x 750 W	(Note: in storage) OLD
46	ETC Source Four	PAR EA	575 W	See below re: lenses
14	ETC ColorSource V MAX	13-44º LED fresnel	208 W	
8	ETC ColorSource Spot V	25-50º LED zoom	197 W	
8	ETC Source Four Series 3 Lustr X8	25-50º LED zoom	307 W	
8	ETC Source Four LED Lustr+	LED profile shutter assemblies	130 W	See below re: lenses
24	ETC Source Four	5 degree ERS	750 W	Hung FOH
26	ETC Source Four	10 degree ERS	575 W	Hung FOH
6	ETC Source Four	14 degree ERS	750 W	Hung FOH
10	ETC Source Four	19 degree ERS	575 W	
62	ETC Source Four	26 degree ERS	575 W	
42	ETC Source Four	36 degree ERS	575 W	
16	ETC Source Four	50 degree ERS	575 W	
8	ETC Source Four	25-50º zoom ERS	575 W	
8	ProCan PAR 20	Mini-PAR (“Birdie”)	75 W	
4	ETC Source 4WRD Color II Gallery	PAR – XWFL	150 W	Worklight only
4 8	ETC Source 4WRD II Chroma-Q Color One 100	RGBA LED 19 degree RGBA LED PAR	150 W 52 W	For proscenium and auditorium decor only. See note below.

Additional lenses:

8	ETC Source Four ERS	26 degree lens tubes
12	ETC Source Four ERS	19 degree lens tubes
2	ETC Source Four ERS	14 degree lens tubes
6	ETC Source Four ERS	10 degree lens tubes
46	ETC Source Four PAR	Sets of WFL, MFL, NSP, VNSP lenses

Accessories and hardware:

6	Apollo Spectra Q3 scrollers, 16-frame custom strings
4	Rosco I-Cue Intelligent Mirror – reserved for use with S4 Lustr fixtures
36	ETC Source Four iris
36	Selecon barndoor
16	A size gobo holder
32	B size gobo holder
8	10' pipe booms, (1.5” schedule 40 pipe, 20.5” square steel base plate)
10	Side ladders – truss mount only
10	‘Christie Lites’ floor fixture base 10”x10”x4”

IMPORTANT NOTES:

See house lighting plot, lighting paperwork, and circuit plot online for detailed information on house lighting hang, circuit locations, lighting positions, permanent positions of fixtures, fixture inventory, accessory list, etc. Please check for updates as applicable.

http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info

No re-hanging or re-focusing is permitted at the box pipe positions. Due to access issues, these positions must be used with the house hang “as is”, and are not available for hanging additional fixtures. (See under “Lighting Positions”.)

The house fixtures lighting the proscenium arch and auditorium architecture/décor are not available for any other purpose.

Connectors:

NEMA L5-20 – 20 Amp twist-lock ground (“new style”, pin in)

Colour stock:

Lee – most colours 101-204 in stock, in cardboard frames or sheet stock
Roscolux – limited stock

Lighting cable:

3000’+	(various lengths)	12-guage twist-lock cable
15	25’ (7.6 m)	6-circuit multi-cables, maximum 10 A per circuit
6	50’ (15 m)	6-circuit multi-cables, maximum 10 A per circuit
4	100’ (30 m)	6-circuit multi-cables, maximum 10 A per circuit
9	83’ (25 m)	6-circuit multi-cables (drops from SL fly floor), maximum 10 A per circuit
30	3’ (0.9 m)	twist-lock two-fers

Followspots:

2 – Lycian 1267 SuperArc 400
Location: projection booth at rear of balcony
Throw distance: approx.120’ (36 m)

Fog/haze machine:

1 – MDG “theONE” atmospheric generator. Contact theatre in advance to arrange use.

Auxiliary power:

1	200A 3-phase 120/208V	DSR	
1	200A 3-phase 120/208V	DSL	
1	400A 3-phase 120/208V	USR	Requires disconnection of dimmers 193-240, via transfer switch
1	400A 3-phase 120/208V	Fly floor SL	Requires disconnection of dimmers 1-96 Min.75' feeder cable to reach stage floor
1	400A 3-phase 120/208V	Fly floor SL	Requires disconnection of dimmers 97-192 Min.75' feeder cable to reach stage floor
1	50A 1-phase 120/208V	DSL	
1	50A 1-phase 120/208V	DSR	

Auxiliary power notes:

Contact the Technical Director well in advance to arrange for permit and hook-up electrician.
All touring and rental equipment and conductors must be approved by CSA, ULC, or Intertek, and must display valid approval stickers as per the BC Electrical Code.
Use of 400 Amp services requires the disconnection of house dimmers (see above).

Connectors for 3-phase services are Cam-Lok 'J' series, reversed ground and neutral.
Connectors for 50 Amp services are 14-50R.

In-house power distribution:

2 – 8 x 5-15/20R (U-ground) splitter, for use with 14-50R services DSL & DSR, max load 50A
1 – 15 x 5-15/20R (U-ground) splitter, for use with 3-phase service, max load 100 Amp
1 – 50' (15.2m) set of feeder cables, 5 x 2/0, max load 200 Amp

Non-dims:

Except as noted, non-dims and relays are 20A 120V, L5-20R, switched at breaker panel DSR.
Many non-dims are reserved for house moving lights, accessories, etc.
House LX plot utilizes R20 Relay Modules for non-automated LED profile fixtures.

House electrics 1-4:	22 non-dims	Reserved for moving lights
SL fly floor	6 non-dims	20A 5-15/20R or L5-20R (parallel receptacles) Switched by contactor DSR
SL fly floor	4 non-dims	15A 208V, L6-15R Switched by contactor DSR
SR fly floor	4 non-dims	20A 5-15/20R, 2 reserved for LED cyc lights
Stage level USR	2 non-dims	20A 5-15/20R, reserved for LED striplights
Stage level DSR	2 non-dims	15A 208V, L6-15R
Stage level DSR	1 non-dim	20A 208V, L6-20R
Stage level DSL/DSR	2 non-dims	1 per side
Orchestra pit L/R	2 non-dims	1 per side
Box fronts L/R	2 non-dims	2 per side, paralleled L/R Reserved for LED architectural lighting
Box pipes L/R	4 non-dims	2 per side, reserved for moving lights
Circle rail	2 non-dims	20A 208V, L6-20R
Circle rail	6 non-dims	3 reserved for ETC SmartBar dimmers
Balcony booms L/R	4 non-dims	2 per side, reserved for moving lights
Projection booth	7 non-dims	20A 5-15/20R, 2 reserved for house followspots
Projection booth	2 non-dims	30A 208V L14-30R
Projection booth	1 non-dims	20A 208V L6-20R

FOH transfer panel: Located DSR. Connectors are Socapex / L5-20P break-ins
Limited application – contact TD

Motor power:

1	30 A 120/208 V	L21-20R or L15-30R or L15-20R (parallel receptacles)	DSR proscenium wall
1	20 A 120/208 V	L15-20R	MSL floor pocket
1	50 A 120/208 V	L15-50R	USR mezzanine – Reserved for house motor distro

Available convenience outlets:

1	20 A 120 V	5-15/20R quad	DSR proscenium wall
1	20 A 120 V	5-15/20R quad	USR side wall
1	20 A 120 V	5-15/20R quad	USR back wall
1	20 A 120 V	5-15/20R quad	USL back wall
1	20A 120 V	5-15/20R quad	MSL side wall
1	20 A 120 V	5-15/20R quad	DSL proscenium wall
1	15 A 120 V	5-15R duplex	Loading ramp off SL wing

Note: Additional, separate receptacles for audio stage power are located DSL and DSR.

Exterior power:

2	15 A 120 V	5-15R	Near loading door
1	30 A 120/208 V	L15-30R	Near stage door (note: ceiling mount)
2	20 A 120 V	5-15/20R	Panel on south wall of stagehouse, near stage door
2	50 A 120/208 V	14-50R	Panel on south wall of stagehouse, near stage door
1	20 A 120 V	5-15/20R	South wall of stagehouse

Note: Exterior circuits have very limited application for shore power. Contact TD for details.

Sound

Location:

House FOH console and playback rack are located at the rear of the main floor.
See drawings: http://www.rmts.bc.ca/rental-information/royal-theatre-technical-info
Touring and rental FOH consoles must be set up in the area adjacent to the house console.
Dimensions: 13' x 5' (3.9 x 1.5 m), plus overhang covering the last row of seats
Alternate house table: light-duty 11' x 4' (3.4 x 1.2 m), covers last row of seats
Contact theatre well in advance if the production area is to be used.

Front-of-house mixing console:

DiGoCo Quantum 5 – 256 input channels, 37 faders

Console is updated with the latest software version. For more information visit:

https://digico.biz/consoles/quantum5/

Console I/O Racks:

1	DiGiCo SD Rack	56 inputs and 56 outputs (24 AES) – Located SR
1	DiGiCo D-Rack	32 inputs and 16 outputs – Located SL
1	DiGiCo SD MINI Rack	16 inputs and 16 outputs – Located FOH

Installed PA system:

24	Meyer Sound LEOPARD	Line array – 12 per side
4	Meyer Sound 900-LFC	Subwoofer – two per side within line array
2	Meyer Sound 1100-LFC	Subwoofer – orchestra pit
4	Meyer Sound UPJ-1P	Main floor front fill – apron edge
6	Meyer Sound UPM-1XP	Under-balcony / under-box fill
1	Meyer Sound RMServer	Remote Monitoring System (RMS) for real-time monitoring of all Meyer speakers

Processors:

3	Meyer Sound Galaxy 816	System drive processors

Playback:

2	Denon DN-C640	Slot-in network CD player
2	Tascam SS-CDR1	CD / Compact Flash recorder
1	Figure 53 QLab Versions 4 & 5	Show control software Includes audio, video, and MIDI show control

Microphones and DI boxes:

9	Shure SM58	Dynamic – cardioid
4	Shure Beta 58A	Dynamic – supercardioid
7	Shure SM57	Dynamic – cardioid
4	Shure Beta 56	Dynamic – supercardioid (w/A56D drum clamp mount)
1	Shure BETA 52A	Dynamic – modified supercardioid
1	Shure BETA 91A	Condenser – half-cardioid boundary
1	Shure BETA 91	Condenser – half-cardioid boundary
1	Shure VP88	Condenser – mid/side stereo
1	SE VR2	Ribbon – figure-8
4	AKG C1000S	Condenser – cardioid / hypercardioid
5	AKG 451B	Condenser – cardioid
4	AKG C414 B-ULS	Condenser – switchable
1	DPA 4018VL d:facto	Condenser – supercardioid vocal mic
20	DPA 4099 CORE+	Condenser – symphony mic kit (with assorted clips)
1	DPA 4055	Condenser – cardioid kick drum mic
1	Electro-Voice RE20	Dynamic – cardioid
1	Sennheiser MD 441-U	Dynamic – super-cardioid
3	Sennheiser MD 421	Dynamic – cardioid
2	Sennheiser e609	Dynamic – supercardioid
4	Sennheiser e904	Dynamic – cardioid (with drum mount)
1	Sennheiser e902	Dynamic – cardioid
2	CAD Equitek E-100	Condenser – supercardioid
4	Neumann KMS 104	Condenser – cardioid
10	Neumann KM 184	Condenser – cardioid
2	Neumann KMS 140	Condenser – cardioid
2	Neumann TLM 107	Condenser – multi-pattern
2	Schoeps CMC6-U	Condenser – cardioid
3	Schoeps CCM4/RL1200g	Tube-mounted condenser – cardioid
1	Earthworks PM40	Condenser – omnidirectional x2 piano mic system
1	AMG C-ducer CPS/8	Stereo contact condenser
1	DPA SC4098-BX45	Condenser – supercardioid (for lectern)
1	Radial ProD1	Passive D.I. box
1	Radial ProAV2	Stereo D.I. box (multi-media)
4	Radial J48	Active D.I. box (phantom powered)
4	Radial JDI	Passive D.I. box
2	Rupert Neve Designs RNDI	Active D.I. box (phantom powered)

Wireless microphones:

1	Lectrosonics Venue 6-channel receiver	Digital Hybrid Wireless receiver for use with SMD or UH400A transmitters
6	Lectrosonics SMD Belt-pack transmitter	Wireless lavalier condenser – with DPA 4061 omni lavs Channels are shared with UH400A transmitters
6	Lectrosonics UH400A Plug-on transmitter	Channels are shared with SMD transmitters
1	Lectrosonics Venue 2 6-channel receiver	Digital Hybrid Wireless receiver for use with HHa transmitters
6	Lectrosonics HHa Hand-held transmitter	With Sure SM58 dynamic cardioid or Neumann KK104 condenser supercardioid capsules
6	Lectrosonics SMQV Belt-pack transmitter	Wireless lavalier condenser – with DPA 6061 omni lavs Channels are shared with HHa transmitters
4	DPA 6066	Omni headset mic, for use with any belt-pack transmitters

Microphone accessories:

10	K&M 210/1	Tripod stand, 2 section with long boom (chrome)
16	K&M 210/9	Tripod stand, 2 section with 2 section boom (black)
15	K&M 252	Tripod stand, 3 section with 2 section boom (black)
10	K&M 259	Tripod stand, 2 section short with 2 section boom (black)
2	K&M 255	Tripod stand, 1 section short with 2 section boom (black)
5	K&M 25960	Round base, short with 2 section boom (black)
8	K&M 26000B	Round-base elevator stand (black)

Monitor console:

DiGiCo SD10 Stealth Core 2 – 144 input channels, 37 faders

Console is updated with the latest software version. For more information visit:

https://digico.biz/consoles/sd10/

Note: Monitor console may be set up stage left or stage right

Monitor speakers and amplifiers:

14	d&b audiotechnik M4	2-way 15” stage monitor — bi-amped
2	d&b audiotechnik V-GSUB	18”/15” cardioid subwoofer
8	d&b audiotechnik 40D	4-channel amplifier

Miscellaneous sound equipment:

2	Mackie SRM150	Compact powered speakers
4	Meyer Sound UPA-1P	(Moveable – no stands)
2	Meyer Sound USW-1P	Subwoofer for UPA-1P
2	Meyer Sound UM-1P	Monitor wedge
4	Meyer Sound MYA-UPA	Flying bracket for UPA-1P
2	KRK V8	Located in house sound mix position (monitor)
1	KRK S10	Located in house sound mix position (subwoofer)
1	Sennheiser SI1015 / RI150	Infrared hearing assistance system, 20 receivers
1	Apple Mac mini computer	Located at sound position – for system monitoring and cue playback
1	RME Fireface 800	Firewire sound interface (8 in / 8 out) for iMac
1	Rational Acoustics SmaartLive v.8	Acoustical analysis software with SPL and RTA and Earthworks M30 measurement microphone
1	Tascam MD-801R MK II	Mini-Disc player / recorder
1	Waves SoundGrid Server One	Digital signal processor Platinum plug-in bundle
1	10EaZy Class 1	SPL monitoring system
1	Aiphone	6-station hardwired intercom system
9	Motorola HT-750	2-way radios, 4 channel – staff use only

Intercom system:

1	Clear-Com HelixNet HMS-4X	4-channel main station
1	Clear-Com FreeSpeak II-Base-II	1.9 GHz wireless base station
5	Clear-Com FS II-BP	Wireless beltpack / headset combination
12	Clear-Com HBP-2X	Wired beltpack / headset combination

Stage / lobby video monitor system:

1	17” 4K HD SDI display	Mounted in stage manager’s rack SR
1	Dual 7” HD SDI display	Mounted in stage manager’s rack SR
1	17” HD SDI display	Mounted in LX booth, rear of main floor
1	Dual 7” HD SDI display	Mounted in rack at FOH sound position
2	32” HD SDI displays	Mounted DSL and DSR on proscenium wall
1	32” HD SDI display	Mounted on SR fly floor
2	32” HD SDI displays	Roving – available for use onstage
2	32” HD SDI displays	Green room
1	65” HDMI display	Entrance foyer (portrait orientation)
2	80” HD SDI displays	East and west lobbies
2	32” HD SDI displays	Mounted above main floor house doors
2	32” HD SDI displays	Mounted above balcony house doors
2	Gefen Signage Players	Plays signage loop on lobby displays Contact theatre for more information
1	4K HD colour camera	Full stage, from balcony (to backstage and lobby)
1	HD camera	Infra-red full stage, from balcony (to backstage only)
1	HD camera	Conductor or house, from pit (to backstage only)

Note: Contact theatre regarding availability of lobby video displays for client applications.

Program sound and lobby / backstage paging system:

Backstage program sound available with discrete level control in each dressing room.
Backstage paging is available from DSL, DSR, or Clear-Com wireless headsets.
FOH paging is available to all lobby public spaces from FOH office.
Full-building emergency paging is available from DSR and/or FOH office.

Lobby sound system:

1	Bose L1 Model II Single bass speaker system	With ToneMatch Audio Engine For lobby use only

Projection and Video

Projection/video equipment:

1	Digital Projection Incorporated HIGHLite Laser 4K projector	12,500 lumen 3 chip DLP 4K UHD projector (in Tempest WhispR G4 enclosure, for use at front of balcony)
1	Digital Projection Incorporated HIGHLite Laser II projector	13,000 lumen 3 chip DLP WUXGA projector (in rigging frame for overhead use on stage)
1	0.77:1 Fixed HB lens	1.3 m – 15 m focus range (no zoom) (for use with DPI projectors)
1	1.74-2.17:1 Zoom HB lens	Motorized zoom, 2.2 m – 11.8 m focus range (for use with DPI projectors)
1	2.17-2.9:1 Zoom HB lens	Motorized zoom, 2.7 m – 15.5 m focus range (for use with DPI projectors)
1	Barco F80-4K12 projector	12,000 lumen single-chip DLP 4K UHD laser-phosphor projector (permanently mounted on balcony rail)
1	Barco FLDX 2.25-3.30:1 lens	Motorized zoom (normally installed)
1	Barco GLD 1.43-2.12:1 lens	Motorized zoom – Contact TD for more information
1	Christie DWU599-GS laser projector	6,065 lumen single-chip DLP WUXGA projector (portable, can be rigged to fly system pipe)
1	2.90-5.50:1 zoom lens	(for use with Christie projector)
1	0.75-0.95:1 zoom lens	(for use with Christie projector)
1	Stewart SnoMatte 100 / AT3 screen	Front projection 16:10 aspect ratio – 15’ x 24’ (permanently hung for use with HIGHLite Laser 4k or Barco projector – see line list for location)
1	Da-Lite Cinema Contour screen	Front projection 16:10 aspect ratio – 100” x 160” (permanently hung for use with Barco projector – see line list for location)
1	LightWare MM6x2 HT220	Matrix switcher 2 HD-Base-T & 4 HDMI inputs, 2 parallel HD-Base-T/HDMI outputs (located at FOH sound position)
1	LightWare UMX-TPS-TX140	HDMI, VGA, DisplayPort, DVI to HD-Base-T input box (fixed at FOH sound position)
1	Lightware UMX-TPS-TX130	HDMI, VGA, DisplayPort to HD-Base-T input box (for use stage right, balcony front, or spot booth)
1	LightWare HDMI-TPS RX-97	HD-Base-T to HDMI output box (for use stage right, balcony front, or spot booth)
1	etherCON HD-Base-T Distribution	Inputs and outputs located stage right, balcony front, or spot booth
1	Denon Professional DN500BD MKII	Denon Professional rack mount Blu-Ray player (permanently located at FOH sound postion)

Video streaming equipment:

1	Datavideo HS-1600T	4-channel HD/SDBaseT portable video streaming studio
3	Datavideo PTC-140T	HDBaseT PTZ camera with tripod

1	Datavideo HS-1600T	4-channel HD/SDBaseT portable video streaming studio
3	Datavideo PTC-140T	HDBaseT PTZ camera with tripod

Note: Contact Technical Director well in advance if projection and video equipment is to be used.

Wardrobe

Location: Dressing room area, one floor beneath stage level.
Laundry / storage room is adjacent to solo dressing room 3.
Work area is adjacent to green room and solo dressing rooms.

Access: Stairwells USR and DSL. Large wardrobe crates must load in through trapdoor CS.

Equipment:

2	Jiffy J-4000 Pro-Line 1500 W steamers
1	Jiffy J-2 1300 W steamer
1	Rowenta IS1430 Pro Compact 1400 W steamer
1	Silver Star ES-94A industrial steam iron (with outboard reservoir)
1	Black & Decker Quick 'N Easy 460 consumer steam iron
1	Reliable Velocity 2001R consumer steam iron
1	Pfaff CL404 ironing board (with heater and fan)
3	Consumer ironing boards
1	Double-sided sleeve ironing board
2	Samsung WF45T6000AW 5.2 cu.ft front-loading washers
1	Maytag 2000 Series YMEDE201YWO 6.7 cu.ft dryer
1	Kenmore C97912 SC Laundry Centre 3.0 cu.ft washer, 5.7 cu.ft dryer
1	Panda PANSP22 16-22 lb capacity spin dryer
1	Whirlpool WFW5090GW 2.6 cu.ft washer (by special arrangement only–in FOH)
1	Whirlpool YWHD5090GW 4.3 cu.ft dryer (by special arrangement only–in FOH)
2	Lasko Wind Machine 3300 20" 3-speed pivoting-head floor fans
1	Lasko 3733 20" 3-speed box fan
1	Commercial Electric SFD5-400B 3-speed 16" drum floor fan
3	Honeywell HT-900C/809/304C 3-speed tilting-head 8" table-top fans
1	Pfaff 138 reversing zig-zag industrial sewing machine
1	Kenmore 16766 consumer sewing machine
9	Uline H-1546 adjustable-height collapsible rolling costume racks
	Assorted drying racks, mirrors, baskets, sewing notions/supplies, etc.

Notes:

Wardrobe equipment is available only when house wardrobe crew is present.
Work area is equipped with fixed costume/hat racks, steamer hooks, and cupboards.
All dressing rooms have fixed costume/hat racks.

Dressing Rooms

Location: Dressing rooms, green room, showers, and washrooms are one floor below stage.

Access: Stage door is secured with a number lock. Contact TD to arrange access code.
Stairs to dressing rooms are located DSL and USR. There are no elevators.
Dressing rooms are not wheelchair-accessible.
Large crates for dressing rooms must load in through trap located centre stage.
There is no direct access from the lobby to backstage.
The auditorium can be accessed from the DSL stairwell.

Description:

Chorus Room 1	11 chairs, 15 mirrors, 4 sinks	
Chorus Room 2	19 chairs, 23 mirrors, 4 sinks	
Solo Room 1	2 chairs, 3 mirrors, 1 sink	
Solo Room 2	2 chairs, 3 mirrors, 1 sink	
Solo Room 3	2 chairs, 3 mirrors, 1 sink 3 phone lines, internet line	Suitable for use as office
Solo Room 4	2 chairs, 3 mirrors, 1 sink	
Solo Room 5	2 chairs, 3 mirrors, 1 sink 1 phone line	Suitable for use as office
Star Solo Room	2 chairs, 1 mirror, 1 sink, desk lamp, armoire	
Conductor's Room	2 chairs, 1 mirror, 1 sink, desk lamp, armoire, 1 phone line	By advance arrangement only
Green Room	16 chairs Sectional couches 3 supplemental make-up mirrors 1 – 5' x 2' folding table 3 – 8' x 2' folding tables 1 – 10' x 4' dining table Water bottle filling station, fridge, microwave oven, kettle, Internet line	
Director's Lounge	2 couches, 1 armchair 1 coffee table, 1 end table	
Showers	2 – showers total 2 – private changing cubicles	Located near Solo 4

Notes:

All dressing room mirrors have 3500-degree Kelvin fluorescent make-up lights, which match the colour temperature of stage lighting.
All dressing rooms are carpeted.
Solo and chorus dressing rooms have fixed costume/hat racks.
Washrooms are located near green room.
Wireless Internet is available throughout the theatre. Contact RMTS Crew Chief for password.

Catering:

Meal service may be set up in the green room.
Available chairs and tables are listed above.
Access for catering companies must be arranged with the theatre in advance.

Visiting Production Information

Directions to theatre:

The Royal Theatre is on the southeast corner of Blanshard St. (Hwy. 17) and Broughton St.
Stage door, loading area and truck parking are off the northbound lane of 900-block Blanshard
From Swartz Bay or Sidney ferry terminals, follow Hwy 17 (Blanshard) south to Broughton.
From Nanaimo and other points north, follow signs to Blanshard and head south to Broughton.
From transportation services on the Inner Harbour, head east to Blanshard St.

Local accommodation, transportation, and services: Contact theatre.

Production offices, telephones, and Internet:

Solo dressing rooms 2, 3 and 5 are recommended for use as production offices if needed.
House phone in Solo room 5 is available at no charge (250-361-0823, digital line, voice only)
Contact TD to arrange for additional telephone lines.
See under "Dressing Rooms" for locations of additional telephone lines and DSL ports.
Wireless Internet is available throughout the theatre. Contact RMTS Crew Chief for password.

Catering: See under "Dressing Rooms"

Stage Management:

Stage Manager's rolling rack DSR contains HD and IR monitors, with program sound.

There is no enclosed booth available for calling shows from FOH. The in-house production position at the back of the main floor may be used – see details under "Sound".

Union

All theatre staff are employed by the Royal and McPherson Theatres Society, under a collective agreement with the International Alliance of Theatrical Stage Employees & Moving Picture Technicians, Artists and Allied Crafts (I.A.T.S.E.) Local 168, Vancouver Island.

Theatre management determines all staffing levels.

Miscellaneous

Smoking inside the theatre and within 7 metres (23 feet) of any doorway, window, or air intake on the exterior of the theatre is prohibited under Capital Regional Bylaw No. 3926.

The use of open flame is not permitted.

The use of pyrotechnics is not permitted.

WHMIS Safety Data Sheets must be provided for all controlled products.
Unlabelled chemicals (liquid, powder or paste) are not permitted in the theatre.