Prepared for Department of Infrastructure, Transport, Regional Development and Communications **AECOM**

ABN: 86267354017

Townsville Concert Hall Business Case

Parking Analysis Briefing Note

26-May-2023

Townsville Concert Hall Business Case

Townsville Concert Hall Business Case

Parking Analysis Briefing Note

Client: Department of Infrastructure, Transport, Regional Development and Communications

ABN: 86267354017

Prepared by

AECOM Australia Pty Ltd

Turrbal and Jagera Country, Level 8, 540 Wickham Street, PO Box 1307, Fortitude Valley QLD 4006, Australia T +61 7 3056 4800 www.aecom.com

ABN 20 093 846 925

26-May-2023

Job No.: 60679990

AECOM in Australia and New Zealand is certified to ISO9001, ISO14001 and ISO45001.

© AECOM Australia Pty Ltd (AECOM). All rights reserved.

AECOM has prepared this document for the sole use of the Client and for a specific purpose, each as expressly stated in the document. No other party should rely on this document without the prior written consent of AECOM. AECOM undertakes no duty, nor accepts any responsibility, to any third party who may rely upon or use this document. This document has been prepared based on the Client's description of its requirements and AECOM's experience, having regard to assumptions that AECOM can reasonably be expected to make in accordance with sound professional principles. AECOM may also have relied upon information provided by the Client and other third parties to prepare this document, some of which may not have been verified. Subject to the above conditions, this document may be transmitted, reproduced or disseminated only in its entirety.

Quality Information

Document Townsville Concert Hall Business Case

60679990 Ref

\\na.aecomnet.com\\lfs\apac\brisbane-

aubne1\secure\projects\606x\60679990_tsv_concert_hall_bc\400_technical\431_tech nicalarea_town planning\car parking review\02. final\230526_tch parking review - rev

2.docx

Date 26-May-2023 Originator Lisa Murphy

Revision History

Rev	Revision Date	Details	Appr	oved
I KCV	ev Revision Date Details		Name/Position	Signature
1	9-May-2023	Draft	Mike Gillen Industry Director - Cities	M. hilr
2	26-May-2023	Final	Mike Gillen Industry Director - Cities	M. Gil

Table of Contents

1.0	Introd	uction		1
	1.1	Backgi	round and Purpose	1
	1.2	Conce	epts and Potential Sites	1
	1.3	Plannii	ng Scheme Parking Rate	
2.0	Case	Studies		2 4
3.0	TCH S	Site Condit	tions	1
	3.1	The Hi	ive	1
		3.1.1	Road network	2
		3.1.2	Active transport network	2
		3.1.3	Public transport network	2
		3.1.4	Existing parking provision	2 2 2 2 4
	3.2	The St	trand	4
		3.2.1	Road network	4
		3.2.2	Active transport network	4 5 5 7 7 7 8 8
		3.2.3	Public transport network	5
		3.2.4	Existing parking provision	5
	3.3	Dean S	Street	7
		3.3.1	Road network	7
		3.3.2	Active transport network	7
		3.3.3	Public transport network	8
		3.3.4	Existing parking provision	
4.0	TCH F	Parking An	nalysis	10
	4.1	Conce	ert Hall Parking Demand	10
		4.1.1	Attendance Scenarios	10
	4.2	Parkin	g Availability	12
5.0	Concl	usions		13
	5.1	Key Fi	indings	13
	5.2	Furthe	er Considerations	14
Appe	ndix A			
		n Concept	ts .	Α
Apper	ndix B			
	Existir	ng Parking	Provision	В

1

1.0 Introduction

1.1 Background and Purpose

The Townsville City Deal is a 15-year commitment between all three tiers of government, signed in December 2016, that aims to support a prosperous economic future for Townsville. The Townsville City Deal Partners have commissioned a Detailed Business Case (DBC) into the development of a concert hall in Townsville. AEC Group Pty Ltd (AEC), AECOM Australia Pty Ltd (AECOM) and Blight Rayner have been engaged by the Australian Government (on behalf of the Townsville City Deal Partners) to deliver the DBC.

The DBC Service Needs Assessment identified that the Townsville Concert Hall (TCH) should be designed to cater to an audience of up to 1,000-1,250. As part of the DBC development, three sites have been shortlisted and a concept design is being developed for each site. A key component of the concept designs is to understand the car parking needs for each site and therefore the amount of car parking to be provided.

To provide an indication of the parking to be provided, this report presents a car parking analysis that considers:

- The planning scheme accepted parking rate
- Parking provision in case studies of similar concert hall or theatre venues
- The existing site conditions and transport options for each potential TCH site
- An estimate of potential TCH parking demand based on event attendance
- The availability of parking within 800m of each potential TCH site

1.2 Concepts and Potential Sites

This report will inform the TCH concept designs as they evolve through the DBC process. However, for the purposes of this report and based on the Service Needs Assessment and concept development to date, the following parameters apply to each concept:

- Concert Hall capacity is 1,250 seats consisting of 1,000 seats in the main auditorium and 250 seats in the Rehearsal Theatre
- A nominal area schedule of 8,600m² total floorspace consisting of approximately 6,000m² Gross Floor Area (GFA) ¹

The concept designs that form the basis of this report are included in Appendix A, dated May 2023.

The three potential sites for the development of TCH are described in Table 1 below.

Table 1: Potential Sites

"Name"	Property Description	Site Area	Ownership
The Hive	Lot 1 and Lot 2 on RP702069, Lot 2 on RP717290, Lots 1, 2, 3 and 4 on SP327299, Lot 1 on RP711511, Lot 2 on RP701585	1.86ha	Centurion Global Investments Pty Ltd

¹ Gross floor area (GFA) is defined by the planning scheme as:

The total floor area of all storeys of a building (measured from the outside of the external walls or the centre of a common wall), other than areas used for the following:

⁽a) building services, plant and equipment;

⁽b) access between levels;

⁽c) ground floor public lobby;

⁽d) a mall;

⁽e) the parking, loading and manoeuvring of motor vehicles;

⁽f) unenclosed private balconies whether roofed or not.

"Name"	Property Description	Site Area	Ownership
The Strand	Lot 293 on EP2174, Lot 786 on EP2270,	1.0886 ha	Queensland State Government
	Lot 100 on CP859212		(Reserve – Townsville City Council
			Trustee)
Dean Street	Lots 21 to 32, and 34 on T118106, Lots	4.4774ha	Townsville City Council
	712 and 734 on EP1695, part of Lot 718 on		Queensland State Government
	SP11999, part of Lots 44 to 48 on		(Reserve – Townsville City Council
	T118106, and part of Lots 2 and 3 on		Trustee)
	RP711585		

1.3 Planning Scheme Parking Rate

Townsville City Plan² (the planning scheme) is the local planning instrument applicable to each of the potential sites³. Based on a review of the planning scheme and the Concept Plans, the Concert Hall could align with planning scheme use definitions for a Major sport, recreation and entertainment facility or a Theatre. Both use definitions and associated car parking rates are outlined in Table 2 below.

Table 2: Planning scheme use definitions and car parking requirements

Use	Definition	Examples include	Does not include the following examples	Car Parking Rate⁴
Major sport, recreation and entertainment facility	Premises with large scale built facilities designed to cater for large scale events including major sporting, recreation, conference and entertainment events.	Convention and exhibition centres, entertainment centres, sports stadiums, horse racing	Indoor sport and recreation, local sporting field, motor sport, park, outdoor sport and recreation	Sufficient spaces to accommodate the amount of vehicle traffic likely to be generated by the particular use.
Theatre	Premises used for presenting movies, live entertainment or music to the public and may include provision of food and liquor for consumption on the premises.	Cinema, movie house, concert hall, dance hall, film studio, music recording studio	Community hall, hotel, indoor sport and recreation facility, temporary film studio	One (1) space per 15m² of GFA or one (1) space for each 4 seats, whichever is the greater.

The Concert Hall is considered most closely aligned with the definition of a Theatre use and this report has considered the car parking rates for a Theatre use.

Based on the nominal area schedule with a GFA of 6,000m² and a total of 1,250 seats, the accepted planning scheme parking rate is detailed in Table 3. This applies across all three sites. In this case, the GFA results in a greater parking rate (equivalent to 1 space per 3.125 seats), and an identified requirement for 400 car parking spaces.

Table 3: Planning Scheme accepted parking rates

Car Parking Rate	Concert Hall	Concert Hall	PS parking no.	PS parking no.
	GFA	Seats	based on GFA	based on seats
One (1) space per 15m² of GFA or one (1) space for each 4 seats, whichever is the greater.	6,000m²	1,250	400	313

² Current version 2022/02

³ Part of The Strand is included in the Townsville Waterfront Priority Development Area which refers to the planning scheme for car parking rates

⁴ As per SC6.10 Parking rates planning scheme policy of the planning scheme

Planning in Queensland supports performance-based planning where alternative solutions may be proposed to meet assessment benchmarks. Due to the size of the site and costs of underground parking, it is not anticipated that the TCH will meet the accepted parking rates as outlined above and as such a performance solution would need to be demonstrated against relevant assessment benchmarks of the planning scheme. The most relevant assessment benchmark, PO17 of the Transport impact, access and parking code, is outlined below.

P017

Provision is made for on-site vehicle parking to:

- (a) meet the demand likely to be generated by the development; and
- (b) avoid on street parking that would adversely impact on the safety or capacity of the road network or unduly impact on local amenity.

While achievement of an acceptable performance solution can only be pursued through a development application, this report considers the likely ability of an acceptable performance solution to be proposed for each site based on qualitative measures and a desktop assessment of parking supply in surrounding areas.

2.0 Case Studies

As detailed in Table 4, several CBD and metropolitan concert hall or performing arts venues across Australia have been reviewed as case studies to provide benchmarks for parking provision, considering the following:

- Theatre capacity (ranging from 732 to 4,920 seats)
- On-site parking provision
- Location including surrounding parking and transport options

Key case study observations are:

- Limited or no car parking is provided in several CBD theatres, particularly where there are alternate parking or transport options nearby
- Where on-site car parking is provided for CBD theatres, the rate of car parking ranges from 1 space per 5.8 seats to 1 space per 14 seats, considerably lower than the Townsville City Plan parking rate
- Where on-site car parking is provided for theatres in metropolitan areas, the rate of car parking ranges from 1 space per 3.3 seats to 1 space per 4.6 seats, similar to the Townsville City Plan parking rate
- Townsville CBD is considered to align most closely with other regional cities such as Cairns and Geelong.

Table 4: Theatre Case Studies

Case Study	Capacity ⁵ (seats)	On-site car parking provision	Ratio of car parks to seats ⁶	Other parking options	Other transport options
Non-Capital City CBDs					
Cairns Performing Arts Centre – Cairns, QLD Opened in 2018 Multiple performance spaces offer a variety of events including theatre, music, dance, contemporary circus, opera, film and comedy	Main auditorium theatre – 940 Second studio theatre – 400 Total – 1,340	158 spaces (132 for visitors)	1 space per 8.5 seats Note: the CairnsPlan 2009 accepted parking rate is 1 space per 5 seats	Free and paid on-street parking in surrounding streets 300 parking spaces in multi-storey car park, 500 m	Bus stop, one block away Cairns City Bus Station, 650 m
Geelong Arts Centre – Geelong CBD, Victoria 180,000 visitors annually across multiple theatres, studios and creative spaces Currently under redevelopment to significantly expand the capacity with multiple new venues, set to be completed in 2023.	Costa Hall – 1,421 The Play House – 764 The Story House – 550 The Open House – 250 Total – 2,985	No parking provision	N/A	The Geelong precinct offers multiple parking options including on street parking	Within walking distance of Geelong Train Station and multiple bus stops
Home Of The Arts – Gold Coast, Qld A precinct for festivals, concerts and films Incorporates two theatres, multi-purpose function spaces, cinema, outdoor stage	Theatre 1 – 1,128 Theatre 2 – 105 Cinemas – 176 HOTA also includes other uses with the following capacities:	Approx 900 spaces across the HOTA precinct	N/A – parking is shared across uses	Very limited on-street parking at least 350 m from the venue	Rideshare and walk across the HOTA Green Bridge Ferry, bus and tram stops within walking distance Active travel via HOTA Green Bridge

⁵ Includes key venues/ facilities only ⁶ Based on the capacity of the venues listed in the 'Capacity' column, divided by the number of car parking spaces provided

Case Study	Capacity ⁵ (seats)	On-site car parking provision	Ratio of car parks to seats ⁶	Other parking options	Other transport options
	Outdoor Amphitheatre – 5,000				
	Multi-purpose spaces – 1,100				
	Art Gallery – N/A				
Capital City CBDs					
Melbourne Recital Centre – Southbank, Victoria	Elisabeth Murdock Hall – 1,000	No parking provision	N/A	Limited on-street parking Multiple car parks within	Multiple bus stops within walking distance
Opened in 2009 More than 200,000 visitors each year and more than 500 concerts and events a year	The Salon – 136 Total – 1,136			walking distance	Closest train station, 10-min walk
Perth Concert Hall – Perth CBD, WA Opened in 2005 Hosts a diverse program of concerts, performances and contemporary art	Main Auditorium – 1,891	324 spaces	1 space per 5.8 seats	Multiple car parks within walking distance	Multiple bus stops within walking distance
Queensland Performing Arts Centre (QPAC) – Southbank, Brisbane, Qld Opened in 1985 Welcomes more than 1.3 million visitors to more than 1,200 performances annually Incorporates 4 theatres as well as outdoor spaces	Lyric Theatre – 2,000 Concert Hall – 1,800 Playhouse – 850 Cremorne Theatre – 270 Total – 4,920	QPAC undercover car park – 351 spaces	1 space per 14 seats	Approximately 650 spaces within other major car parks within walking distance	Ferry, bus and train stops within walking distance Active transport
Riverside Live Theatre and Cinema – Parramatta, Western Sydney, NSW Opened in 1988 Welcomes more than 180,000 visitors to more than 750 performances annually	Riverside Theatre – 761 Lennox Theatre – 213	No parking provision	N/A	7 private car parks within a 2 to 15 min walk Limited on-street parking	Parramatta Train Station, 12-min walk Multiple bus stops within walking distance

Case Study	Capacity ⁵ (seats)	On-site car parking provision	Ratio of car parks to seats ⁶	Other parking options	Other transport options
	Raffertys Theatre – 88				Ferry stop, 8-min walk
	Total – 1,062				
Capital City Metropolitan Areas					
Brighton Performing Arts Centre – North Brighton, SA Multi-purpose venue located within Brighton Secondary School	Concert Hall – 400 Theatre – 332 Total – 732	199 spaces	1 space per 3.7 seats	On-street parking in surrounding streets	Bus stop within walking distance Nearest train station, 1.2 km
17kms from Adelaide CBD					
The Concourse – Chatswood, NSW Opened in 2011	Concert Hall –1,000 Theatre – 499	400 spaces	1 space per 4.6 seats	On-street parking Car parks within walking distance	Chatswood Interchange for buses and trains, 2-min walk
15 minutes from Sydney CBD Incorporates a concert hall and theatre, rehearsal centre, art space, multi-purpose function space	Civic pavilion – 350 Total – 1,849			distance	
Precinct also includes library, outdoor screen, restaurants, retail, open space					
Frankston Arts Centre – Frankston, Victoria Established in 1995	Theatre – 800 Black box theatre – 200	300 spaces	1 space per 3.3 seats	On-street parking	Frankston Train Station, 6-min walk 4 bus routes stop at the
One of the largest outer metropolitan arts venues in Australia, incorporating a theatre, black box theatre, gallery spaces, a function centre and creative arts hub	Total – 1,000				entrance

1

3.0 TCH Site and Surrounds Parking Assessment

The existing site conditions for each potential TCH presented in this section are based on:

- A desktop review of available parking surrounding each site
- · A desktop review of the local transport network for each site
- The Service Needs Assessment prepared for the TCH Detailed Business Case.

Further detailed studies would be required to support a future planning application and detailed design of the TCH.

3.1 The Hive

The Hive is located on the north-eastern edge of the Townsville CBD within the Mixed use zone of Townsville City Plan (the planning scheme). Currently, the site largely comprises vacant land, car parking areas, and underutilised buildings. The site adjoins Molly Malone's Irish Pub, the Criterion Hotel and the Queens Hotel on the same block.

Nearby uses include Anzac Memorial Park, Breakwater Ferry Terminal, Breakwater Marina, The Ville Resort and Casino, Townsville Entertainment and Convention Centre, Museum of Tropical Queensland, and Reef Headquarters Aquarium. Food and beverage uses along Flinders Street lead into the CBD proper.

Figure 1: The Hive Site Extent



3.1.1 Road network

The site has frontage to The Strand (north), King Street (east), Flinders Street (south) and Wickham Street (west). Currently, Flinders Street, Wickham Street and The Strand are one-way roads surrounding the site. It is understood that Council has plans to upgrade the road network to facilitate two-way vehicle movements by 2036⁷. All surrounding roads are designated as Major collector roads in the planning scheme, with Flinders Street being a sub-arterial road connecting to arterial road Denham Street.

3.1.2 Active transport network

Footpaths are provided on each road frontage with pedestrian crossing facilities at The Strand / King Street intersection, Flinders Street / Wickham Street intersection and Wickham Street / The Strand intersection. Cycle infrastructure generally consists of off-road shared paths. E-scooters are also available for transport around the Townsville CBD, Castle Hill and The Strand.

3.1.3 Public transport network

The 200, 201 and 206 bus routes service the area surrounding The Hive site with four bus stops within about 400m of the site, including stops immediately adjacent the site on Flinders Street. Bus route 200 services outer suburbs to the south-west such as Kelso via Flinders Street, and bus route 201 services James Cook University via Flinders Street, both with approximately 10-20 minute frequency during weekday peak periods. Bus route 206 services Breakwater ferry terminal and travels north to Pallarenda with hourly services.

The Townsville City bus hub is approximately 800m walking distance from The Hive and is serviced by route 206 as well as an additional eight bus routes.

These bus services, particularly with a stop immediately adjacent the site with high frequency services, provide an opportunity for event travel management strategies to increase public transport mode share.

3.1.4 Existing parking provision

A desktop analysis of available car parking within 200m, 400m and 800m of the site was undertaken to understand parking provision in the area. The result of this analysis is illustrated in Figure 6 and summarised in Table 5. Full details including types of parking, cost, parking periods and operators are included in **Appendix B**.

The parking analysis is divded into different types of parking, consisting of the following for The Hive:

- On-street parking approx. 1,500 on-street parking spaces, almost all of which are free. Parking periods range from 2hrs to 8hrs with some unlimited parking within 400m of the site.
- Private parking approx. 1,350 private parking spaces the majority of which are paid and run by Council or private operators.
- Informal parking approx. 80 informal parking spaces (unpaved areas used for parking).

Currently, there are approximately 203 car parking spaces on the site that may be replaced by the TCH development. Taking into account a worst-case scenario involving removal of all existing car parks on The Hive site, there are 326 car parks within 200m and a total of 2,974 car parks within 800m of the site.

Key existing parking provision observations for The Hive are:

- There is significant parking capacity available within 800m of the site
- Within 200m of the site there are 300 on-street and private parking spaces
- Most nearby parking (approx. 70%) is within 400m-800m of the site

Source: Arup. (2016). The Hive Preliminary Master Plan Traffic Impact Assessment, Development Approval MI16/0033.

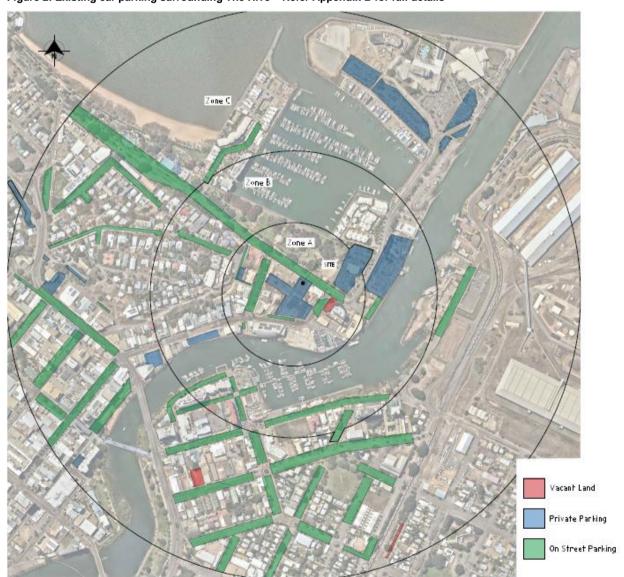
There are several nearby uses including retail, commercial, dining, entertainment and tourism destinations, that would contribute to a cross-visitation discount where Concert Hall attendees also visit nearby destinations while utilising the same parking.

Table 5: Existing parking provision within proximity to The Hive

	Car Parking Type			
Distance	On-street parking	Private parking*	Informal parking	TOTAL by distance
Within 200m	151	149	26	326
Within 200- 400m	184	360	-	544
Within 400-800m	1172	880	52	2104
TOTAL by type	1507	1389	78	2974

^{*}excludes existing car parking on the site.

Figure 2: Existing car parking surrounding The Hive - Refer Appendix B for full details



3.3 The Strand

The Strand site is located on the opposite side of the road to The Hive, at the corner of The Strand and Sir Leslie Thiess Drive. The site is just outside the Townsville CBD within the Medium density residential zone, Sport and recreation zone and Open space zone. Currently, the site comprises the Townsville Bowls Club, The Strand Car Park, Enterprise House and open space including the North Queensland Garden of Remembrance.

Adjoining the site to the west is open space including Anzac Memorial Park, and to the north is Breakwater Villas apartments. Nearby uses include Breakwater Ferry Terminal, Breakwater Marina, The Ville Resort and Casino, Townsville Entertainment and Convention Centre, Museum of Tropical Queensland, and Reef Headquarters Aquarium.

Figure 3: The Strand Site Extent (initial)



3.3.1 Road network

The site has frontage to, Sir Leslie Thiess Drive (east) and The Strand (south). King Street, Flinders Street and Wickham Street to the east are key nearby streets for movement to and from the site. Currently, Flinders Street, Wickham Street and The Strand are one-way roads surrounding the site. It is understood that Council has plans to upgrade the road network to facilitate two-way vehicle movements by 2036 (Arup, 2016). All surrounding roads are designated as Major collector roads in the planning scheme, with Flinders Street being a sub-arterial road connecting to arterial road Denham Street.

3.3.2 Active transport network

Footpaths are provided along both sides of The Strand and the north-western side of Sir Leslie Thiess Drive and the site connects to a coastal off-road shared path via open space. Pedestrian crossing facilities are provided to cross Sir Leslie Thiess Drive, at The Strand / King Street intersection and Wickham Street / The Strand intersection. E-scooters are also available for transport around the Townsville CBD, Castle Hill and The Strand.

3.3.3 Public transport network

The 200, 201 and 206 bus routes service the area surrounding The Strand site with three bus stops within 400m of the site, including the Breakwater Ferry Terminal bus station opposite the site. Bus route 200 services outer suburbs to the south-west such as Kelso via Flinders Street, and bus route 201 services James Cook University via Flinders Street, both with approximately 10-20 minute frequency during weekday peak periods. Bus route 206 services Breakwater ferry terminal and travels north to Pallarenda with hourly services.

The Townsville City bus hub on Ogden Street is approximately 1km from The Strand and is serviced by route 206 as well as an additional eight bus routes.

These bus services, particularly with a stop opposite the site with high frequency services, provide an opportunity for event travel management strategies to increase public transport mode share.

3.3.4 Existing parking provision

A desktop analysis of available car parking within 200m, 400m and 800m of the site was undertaken to understand parking provision in the area. The result of this analysis is illustrated in Figure 4 and summarised in Table 6. Full details including types of parking, cost, parking periods and operators are included in **Appendix B**.

The parking analysis is divded into different types of parking, consisting of the following for The Strand:

- On-street parking approx. 1,350 on-street parking spaces, almost all of which are free.
 Parking periods range from 1hr to 8hrs with some unlimited parking within 400m of the site.
- Private parking approx. 1,250 private parking spaces the majority of which are paid and run by Council or private operators.
- Informal parking approx. 80 informal parking spaces (unpaved areas used for parking).

Currently, there are approximately 123 car parking spaces on the site that may be replaced by the TCH development. Taking into account a worst-case scenario involving removal of all existing car parks on The Strand site, there are 652 car parks within 200m and a total of 2,721 car parks within 800m of the site

Key existing parking provision observations for The Strand are:

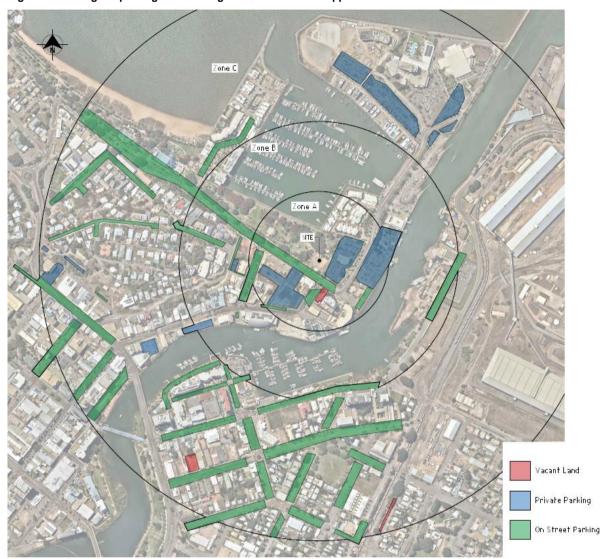
- There is significant private parking available within 800m of the site
- Within 200m of the site there are more than 600 formal parking spaces
- Most nearby parking (approx. 70%) is within 400m-800m of the site
- There are several nearby uses including retail, commercial, dining, entertainment and tourism
 destinations, that would contribute to a cross-visitation discount where Concert Hall attendees
 also visit nearby destinations while utilising the same parking.

Table 6: Existing parking provision within proximity to The Strand

Distance	On-street parking	Private parking*	Informal parking	TOTAL by distance
Within 200m	122	504	26	652
Within 200- 400m	87	85		172
Within 400-800m	1167	678	52	1897
TOTAL by type	1376	1267	78	2721

^{*}excludes existing car parking on the site.

Figure 4: Existing car parking surrounding The Strand – Refer Appendix B for full details



3.4 Dean Street

The Dean Street site is located south-east of the Townsville CBD, across Ross Creek, in the Mixed use zone. Currently, the site comprises the Dean Street Car Park and three community buildings including facilities for the RSL, Townsville Brass Band and Althea's Community Hub.

Surrounding uses include Queensland Country Bank Stadium and Central Park to the west, Townsville Fire and Rescue Service and medium density residential zoning to the north, and railyards and industrial land to the east and south.

Figure 5: Dean Street Car Park Site Extent (initial)



3.4.1 Road network

The site has frontage to Morey Street (north), Morehead Street (east), Rooney Street (south) and Saunders Street (west). Saunders Street is designated as an arterial road in the planning scheme. Rooney Street is a sub-arterial road north of Saunders Street, connecting to Townsville CBD, and a Major collector road south of Saunders Street. Morey and Morehead Streets are both Major collector roads.

3.4.2 Active transport network

Wide shared paths are provided on the Saunders Street road frontage and in Dean Street park. There are no formal footpaths on other road frontages. Pedestrian crossing facilities are provided at the Morey Street / Saunders Street intersection, Saunders Street / Rooney Street intersection and Morey Street /

Morehead Street intersection. On-road cycle lanes are provided on Saunders Street at the intersection with Rooney Street.

3.4.3 Public transport network

The 208 and 209 bus routes service the area surrounding the Dean Street site with four bus stops within about 400m of the site. Bus route 208 runs hourly between the Townsville City bus hub and James Cook University via southern suburbs. Bus route 209 runs hourly between the Townsville City bus hub, Townsville University Hospital, James Cook University, Wulguru and Aitkenvale.

The Townsville City bus hub on Ogden Street is approximately 800m walking distance from Dean Street across Lowths Bridge and is serviced by route 208 and 209 as well as an additional seven bus routes that include higher frequency services.

These bus services provide an opportunity for event travel management strategies to increase public transport mode share.

3.4.4 Existing parking provision

A desktop analysis of available car parking within 200m, 400m and 800m of the site was undertaken to understand parking provision in the area. The result of this analysis is illustrated in Figure 6 and summarised in Table 7. Full details including types of parking, cost, parking periods and operators are included in **Appendix B**.

The parking analysis is divded into different types of parking, consisting of the following for Dean Street:

- On-street parking approx. 1,900 on-street parking spaces, all of which are free. Parking periods range from 15mins to 8hrs with significant unlimited parking within 800m of the site.
- Private parking approx. 945 private parking spaces including Council and privately operated paid parking areas. It is noted this includes approx. 290 private spaces at Queensland Country Bank stadium not open to the public.
- Informal parking approx. 190 informal parking spaces (unpaved areas used for parking).

Currently, there are approximately 591 formal car parking spaces on the broader Dean Street site as well as 100 informal car parking spaces, some of which may be replaced by the TCH development. It is however, unlikely that car parking will be removed entirely from Dean Street in the event of future development and that some staging activities from development would allow parking on-site or close to site. A worst-case scenario involving removal of all existing car parks on the Dean Street site, including 27 car parks in front of 50 Morehead Street, reveals that there are 103 car parks within 200m and a total of 3,044 car parks within 800m of the site.

Key existing parking provision observations for Dean Street are:

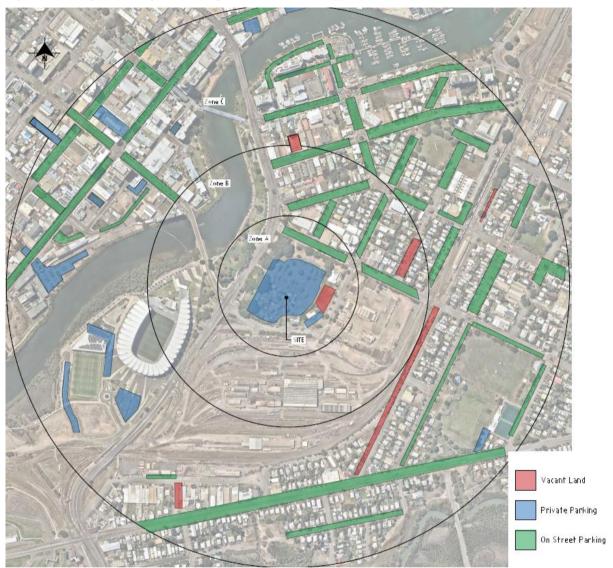
- Almost 600 parking spaces exist on-site currently and are used by commuters and stadium
 visitors. These spaces would likely to be reduced if future development was staged at Dean
 Street. However, this may only be a temporary measure, as the size of the site would enable
 significant parking in structure or surface in future development scenarios.
- There is a smaller proportion of parking available within 400m of the site including no private parking available within 400m of the site
- Most nearby parking (approx. 88%) is within 400m-800m of the site

Table 7: Existing parking provision within proximity to Dean Street

Distance	On-street parking	Private parking*	Informal parking	TOTAL by distance
Within 200m	103	0	0	103
Within 200- 400m	223	0	49	272
Within 400-800m	1580	945	144	2669
TOTAL by type	1906	945	193	3044

^{*}excludes existing car parking on the site.

Figure 6: Existing car parking surrounding Dean Street - Refer Appendix B for full details



4.0 TCH Parking Analysis

4.1 Concert Hall Parking Demand

To comprehend the ability to put forward a performance solution for parking at each site, an analysis has been undertaken to understand the potential demand generated by the TCH. The parking demand presented is indicative only and further studies would be required to inform detailed design and any future planning application.

4.1.1 Attendance Scenarios

The Service Needs Assessment indicates that 87.7% of events are expected to attract audience sizes of between 300 and 700, with 4.0% of events expected to attract more than 850 attendees. In order to account for different attendance rates, two scenarios have been tested to provide an indication of potential demand:

- Full attendance (1,250 seats)
- Moderate attendance (750 seats)

The following assumptions have informed these estimates:

- The Hive and The Strand would experience higher bus mode share (assumed 10%) than Dean Street (assumed 5%) due to the proximity of bus stops and high-frequency services
- Each site would experience 5% mode share for rideshare or pick-up/drop-off
- Bus occupancy is 20 persons per vehicle
- Rideshare occupancy is 2.5 persons per vehicle
- Car occupancy is 2.5 persons per vehicle

Table 8 and Table 9 outline the estimated Concert Hall parking demand. Expressed as a ratio of number of seats to parking spaces, consistent with Townsville City Plan, the estimated concert hall demand is sumarrised as:

- Full attendance:
 - o The Hive 465 spaces (1 space per 2.7 seats)
 - The Strand 465 spaces (1 space per 2.7 seats)
 - o Dean Street 490 spaces (1 space per 2.5 seats)
- Moderate attendance:
 - The Hive 295 spaces (1 space per 4.2 seats)
 - o The Stand 295 spaces (1 space per 4.2 seats)
 - Dean Street 310 spaces (1 space per 4.0 seats)

Key parking demand estimate observations are:

- In a full attendance scenario, the estimated parking demand (approx. 1 space per 2.5 seats) is greater than that accepted by the planning scheme (1 space per 4 seats)
- In a moderate attendance scenario, the estimated parking demand (approx. 1 space per 4 seats) is similar to the planning scheme's accepted rate (1 space per 4 seats)
- Both attendance scenarios present parking rates that are greater than observed parking provision in the CBD case studies reviewed in Section 2.0 (ranging from 1 space per 5.8 seats to 1 space per 14 seats).

Table 8: Estimated parking demand for a full attendance scenario

	Concert Hall Event – Full attendance				
Component	The Hive	The Strand	Dean Street		
Concert hall capacity	1250	1250	1250		
Event attendance	100%	100%	100%		
Event demand (persons)	1250	1250	1250		
Bus (chartered / public) mode share	10%	10%	5%		
Total persons by bus	125 125		62.5		
Bus occupancy (persons per vehicle)	20	20	20		
Total no. buses	6.25	6.25	3.125		
Rideshare mode share	5%	5%	5%		
Total persons by rideshare	62.5	62.5	62.5		
Rideshare occupancy (persons per vehicle)	2.5	2.5	2.5		
Total no. rideshare vehicles	25	25	25		
Private car mode share	85%		90%		
Total persons by private car	1062.5	1062.5	1125		
Car occupancy (persons per vehicle)	2.5	2.5	2.5		
Total no. visitor cars	425	425	450		
Staff / performer parking demand (vehicles)	40	40	40		
Total concert hall demand	465	465	490		
Ratio of capcity to parking spaces (capacity	1 space per 2.7	1 space per 2.7	1 space per 2.5		
divided by total demand)	seats	seats	seats		

Table 9: Estimated parking demand for a moderate attendance scenario

	Concert Hall Event – Full attendance				
Component	The Hive	The Strand	Dean Street		
Concert hall capacity	1250	1250	1250		
Event attendance	60%	60%	60%		
Event demand (persons)	750	750	750		
Bus (chartered / public) mode share	10%	10%	5%		
Total persons by bus	75 7		37.5		
Bus occupancy (persons per vehicle)	20	20	20		
Total no. buses	3.75	3.75	1.875		
Rideshare mode share	5%	5%	5%		
Total persons by rideshare	37.5	37.5	37.5		
Rideshare occupancy (persons per vehicle)	2.5	2.5	2.5		
Total no. rideshare vehicles	15	15	15		
Private car mode share	85%	85%	90%		
Total persons by private car	637.5	637.5	675		
Car occupancy (persons per vehicle)	2.5	2.5	2.5		
Total no. visitor cars	255	255	270		
Staff / performer parking demand (vehicles)	40	40	40		
Total concert hall demand	295	295	310		
Ratio of capcity to parking spaces (capacity	1 space per 4.2	1 space per 4.2	1 space per 4.0		
divided by total demand)	seats	seats	seats		

4.2 Parking Availability

As presented in Section 3.0 TCH Site and Surrounds Parking Assessment, a desktop analysis was undertaken to identify the existing parking provision within 200m, 400m and 800m of each site.

In the absence of a parking utilisation survey, a number of scenarios have been considered to reflect the availability of parking under different conditions. As detailed in Table 10, these scenarios apply a percentage discount rate to the number of available car parks to account for demand from other sources. This includes an estimated parking availability of 15% in the instance that a major sporting event is occurring at Queensland Country Bank Stadium.

Table 10: Parking availability scenarios

Distance from site		% parking available							
	100%	75%	50%	25%	20%	15%			
The Hive									
Within 200m	326	245	163	82	65	49			
Within 200m-400m	544	408	272	136	109	82			
Within 400m-800m	2104	1578	1052	526	421	316			
TOTAL	2974	2231	1487	744	595	446			
The Strand									
Within 200m	652	489	326	163	130	98			
Within 200m-400m	172	129	86	43	34	26			
Within 400m-800m	1897	1423	949	474	379	285			
TOTAL	2721	2041	1361	680	544	408			
Dean Street									
Within 200m	103	77	52	26	21	15			
Within 200m-400m	272	204	136	68	54	41			
Within 400m-800m	2669	2002	1335	667	534	400			
TOTAL	3044	2283	1522	761	609	457			

Key parking availability observations are:

- In a 20% parking availability scenario, all sites have sufficient available parking within 800m to cater for estimated demand based on full attendance at a Concert Hall event
- In a 15% parking availability scenario, each site has less parking within 800m than the estimated parking demand based on full attendance at a Concert Hall event, but has sufficient parking to cater for a moderate attendance event
- In a 15% parking availability scenario, each site has parking within 800m of the site to meet the planning scheme accepted parking rate of 400 spaces (equivalent to 1 space per 3.125 seats)
- The majority of available parking is between 400-800m from each site, particularly at Dean Street
- In a 50% parking availability scenario, The Hive and The Strand each have parking within 400m of the site to meet the planning scheme accepted parking rate of 400 spaces

5.0 Conclusions

The DBC Service Needs Assessment identified that the TCH should be designed to cater to an audience of up to 1,000-1,250. As part of the DBC development, three sites have been shortlisted and a concept design has been developed for each site. A key component of the concept designs is to understand the parking needs for each site and therefore the amount of car parking to be provided.

To provide an indication of the parking to be provided, this report presents a car parking analysis that considers:

- The planning scheme accepted parking rate
- · Parking provision in case studies of similar concert hall or theatre venues
- The existing site conditions and transport options for each potential TCH site
- An estimate of potential TCH parking demand based on event attendance
- The availability of parking within 800m of each potential TCH site.

The analysis and assumptions used in this briefing note demonstrate that each site and the surrounding area has the capacity to support a performance solution for car parking provision and sufficient parking for TCH patrons is available surrounding each site to cater for demand in almost all scenarios.

5.1 Key Findings

Key findings of the parking analysis are summarised below.

- Planning scheme parking rate: The planning scheme parking rate of 400 spaces (equivalent to 1 space per 3.125 seats) is considerably higher than case study examples.
- Case study parking provision:
 - Several capital city and regional city CBD case studies do not provide on-site car parking, relying on quality public transport or off-site parking
 - Where on-site parking is provided, CBD case studies include car parking at a rate of between 1 space per 5.8 seats to 1 space per 14 seats, considerably lower than the Townsville City Plan parking rate
 - Where on-site parking is provided, metropolitan case studies include car parking at a rate of between 1 space per 2.8 seats to 1 space per 4.6 seats, similar to the Townsville City Plan parking rate
 - Townsville CBD is considered to align most closely with other regional cities such as Cairns and Geelong.
- TCH site and surrounds parking assessment: all sites have reasonable access via active and
 public transport and significant existing parking within 800m of the site. The Hive and The Strand
 have public transport stops within the immediate proximity of each site with high-frequency
 services. Dean Street has public transport stops within walking distance of the site with some highfrequency services.
- TCH estimated parking demand:
 - In a full attendance scenario, the estimated parking demand (approx. 1 space per 2.5 seats) is greater than that accepted by the planning scheme (1 space per 4 seats)
 - In a moderate attendance scenario, the estimated parking demand (approx. 1 space per 4 seats) is similar to the planning scheme's accepted rate (1 space per 4 seats)
 - Both attendance scenarios present parking rates that are greater than observed parking provision in CBD case studies (ranging from 1 space per 5.8 seats to 1 space per 14 seats)
- TCH parking availability: scenarios that tested the percentage of the existing parking that is available within 200m, 400m and 800m of each site found:

- The majority of available parking is between 400-800m from each site, particularly at Dean Street
- In a 20% parking availability scenario, all sites have sufficient available parking within 800m to cater for estimated demand based on full attendance at a Concert Hall event (equivalent to 1 space per 2.5 to 2.7 seats)
- In a 15% parking availability scenario, each site has less parking within 800m than the
 estimated parking demand based on full attendance at a Concert Hall event, but has
 sufficient parking to cater for a moderate attendance event (equivalent to 1 space per 4.0 to
 4.2 seats)
- In a 15% parking availability scenario, each site has parking within 800m of the site to meet the planning scheme accepted parking rate of 400 spaces (equivalent to 1 space per 3.125 seats)
- In a 50% parking availability scenario, The Hive and The Strand each have parking within 400m of the site to meet the planning scheme accepted parking rate of 400 spaces

As outlined in the points above, sufficient parking for TCH patrons is available surrounding each site to cater for demand in almost all scenarios.

5.2 Further Considerations

In support of a performance solution and effective car parking management across the City, the below points highlight several matters that require consideration by the Townsville City Deal Partners in progressing the TCH:

- Walkability improvements: given that the majority of existing parking spaces are between 400-800m from each site, improvements to pedestrian pathways, crossings and the provision of shade and other walking infrastructure will be important to provide a positive visitor experience
- Event management strategies: event management strategies are proven effective in managing transport, access and parking during major events or multiple major events in the City
- **Further studies:** further detailed traffic studies should be undertaken to support a future planning application and detailed design of the TCH.

Appendix A

Design Concepts



Subject Sites Context Image



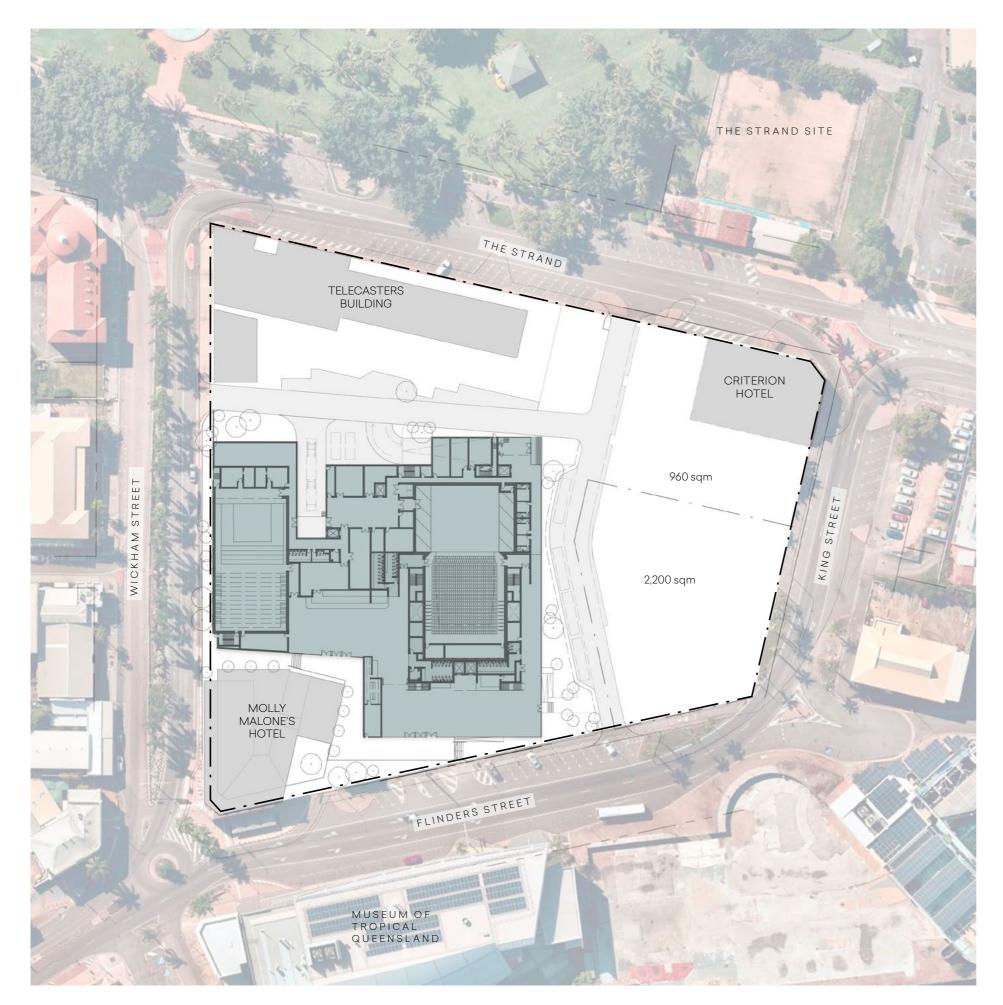


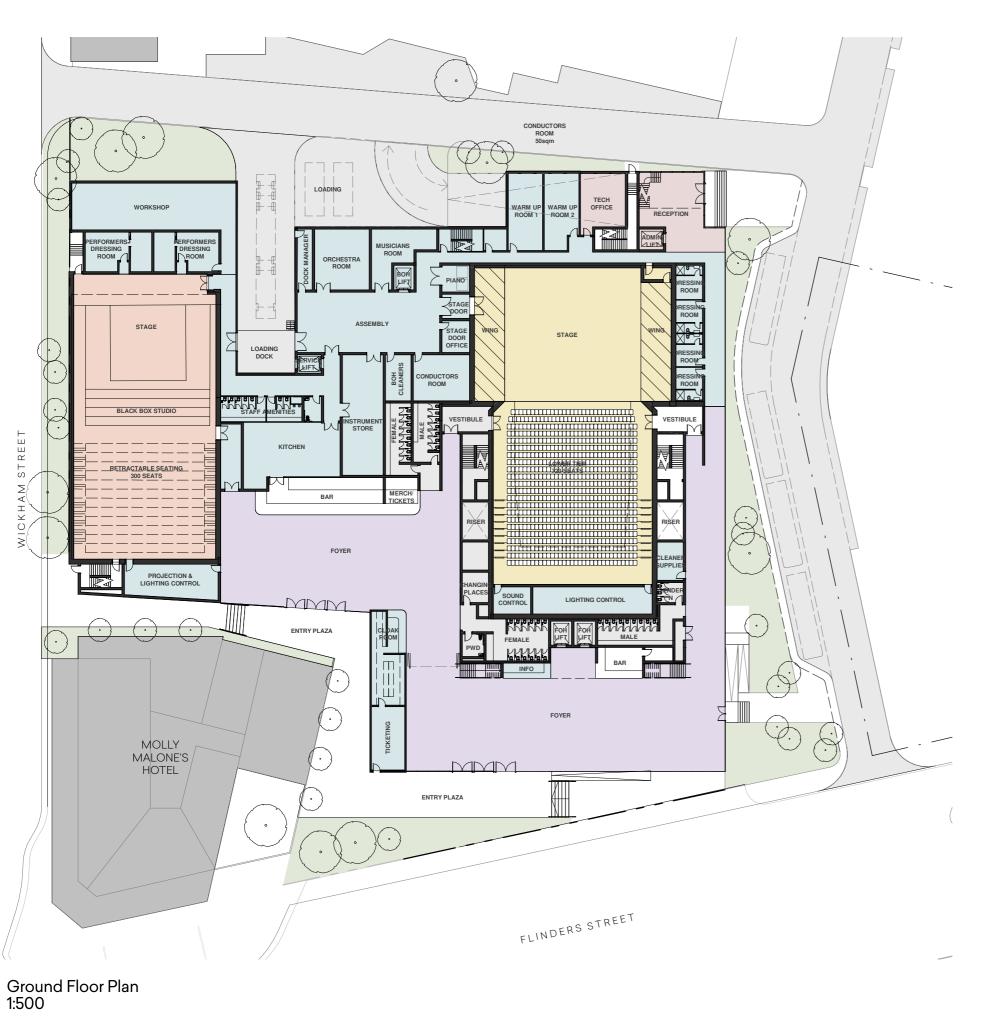
The Hive Option 1

Context Map

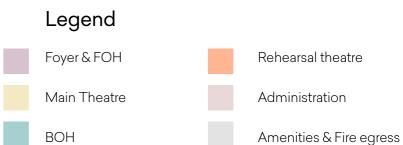


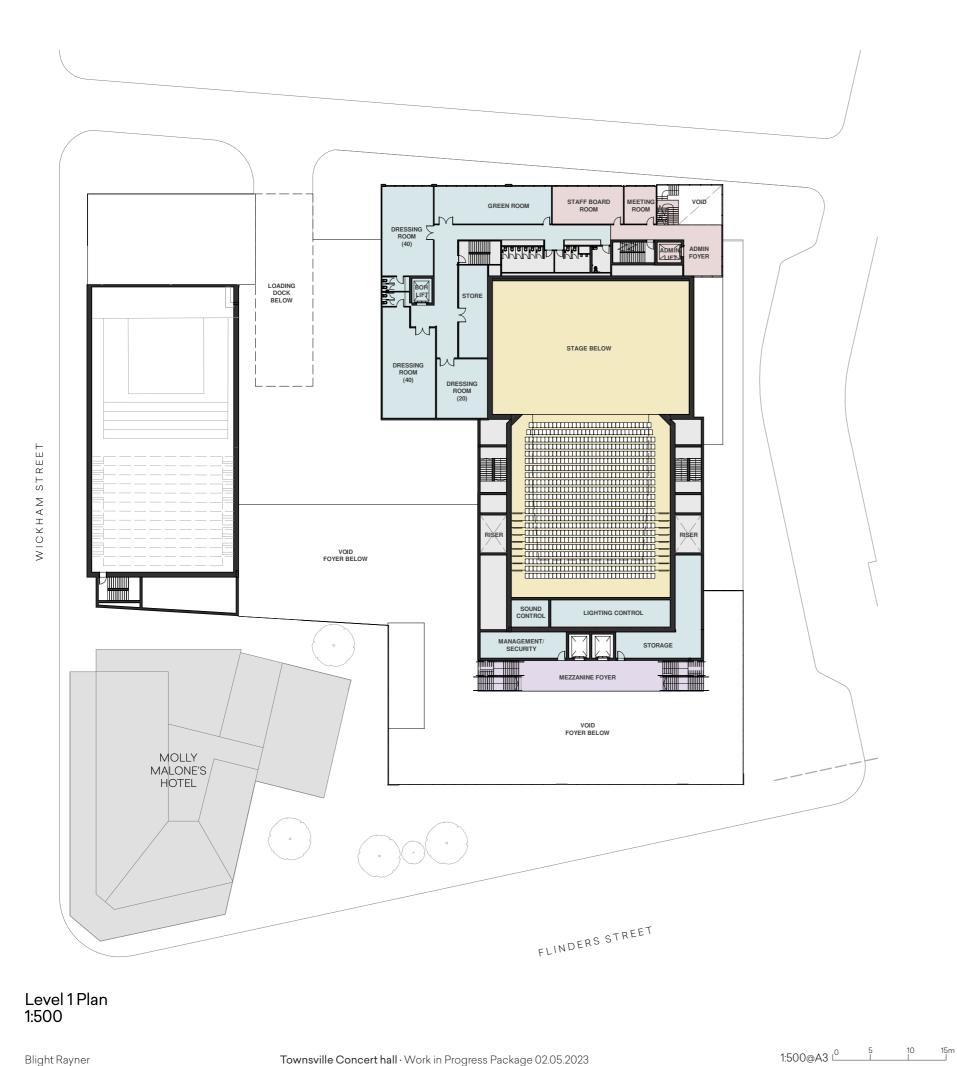
Site Plan





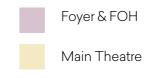
Ground Floor Plan





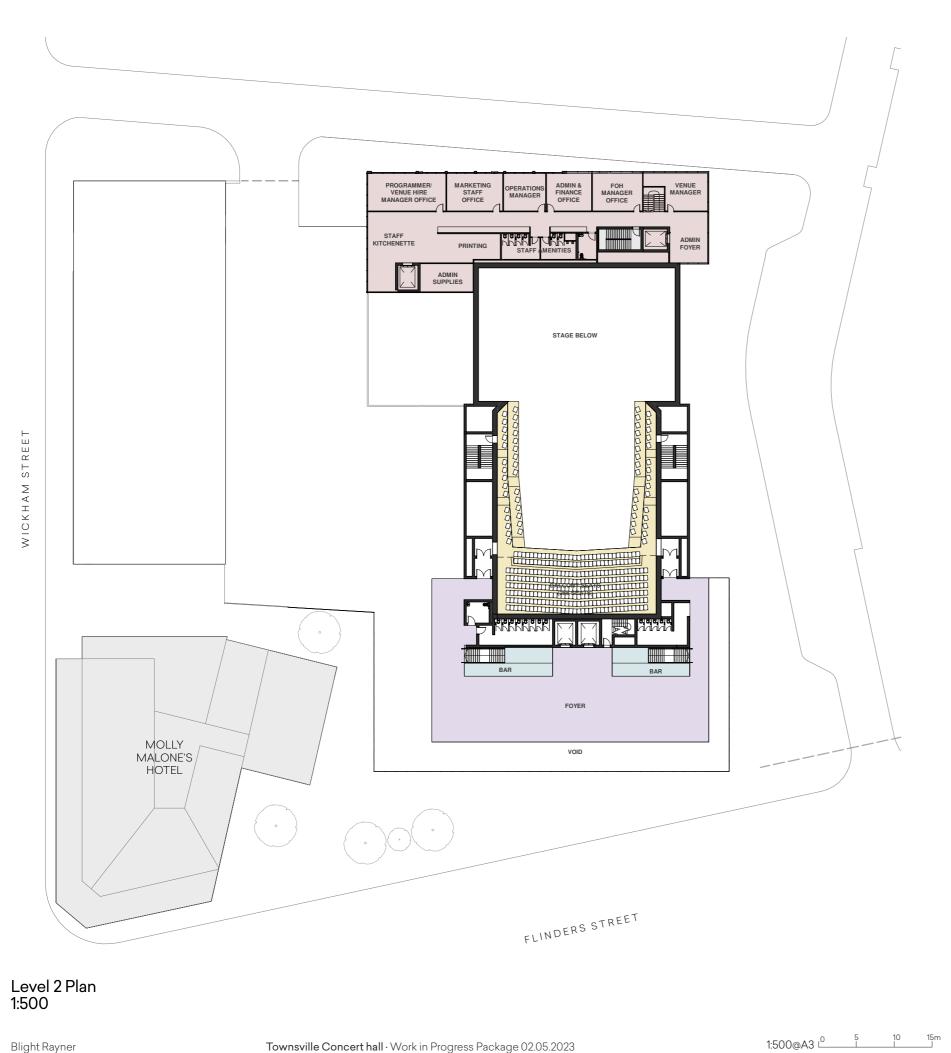
Level 1 Plan











Level 2 Plan

Legend

Foyer & FOH

ВОН

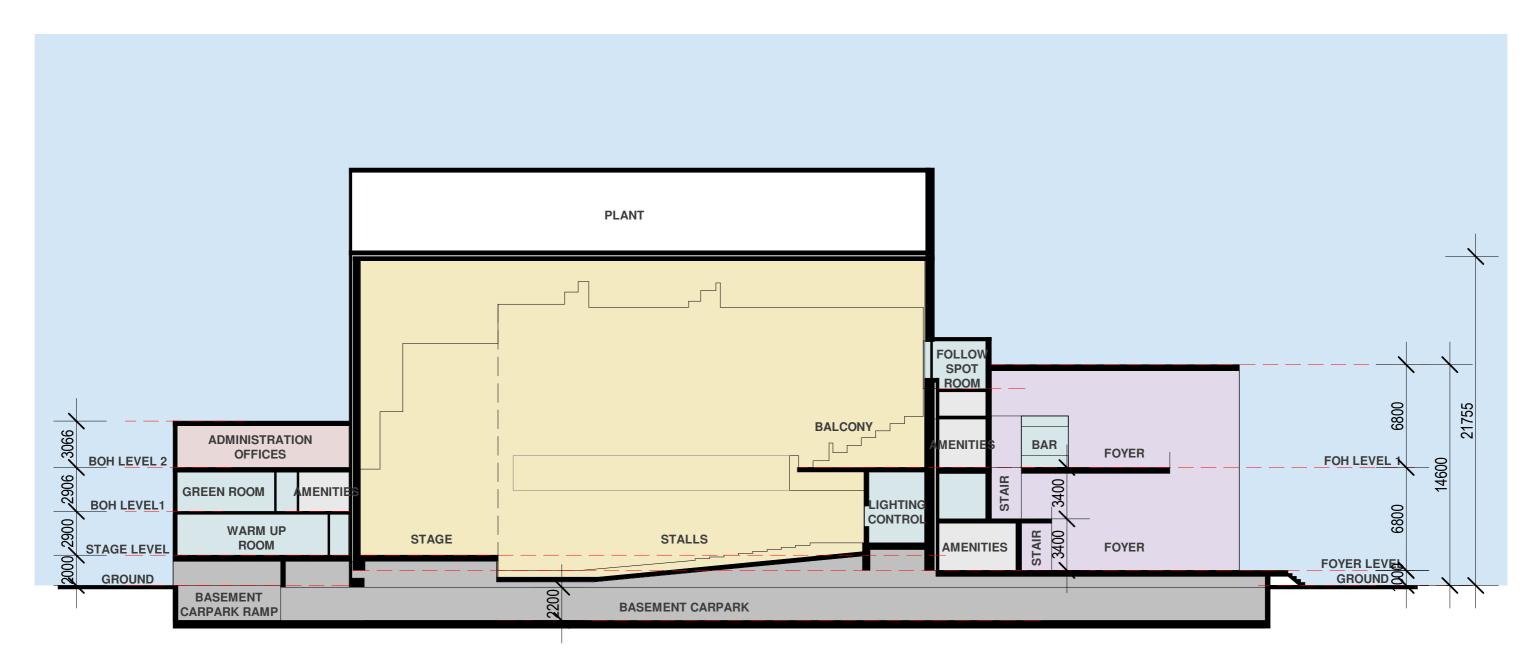
Rehearsal theatre

Main Theatre

Administration

Amenities & Fire egress

Building Section



Main Theatre Section 1:250

Townsville Concert hall · Work in Progress Package 02.05.2023





The Strand Option 2

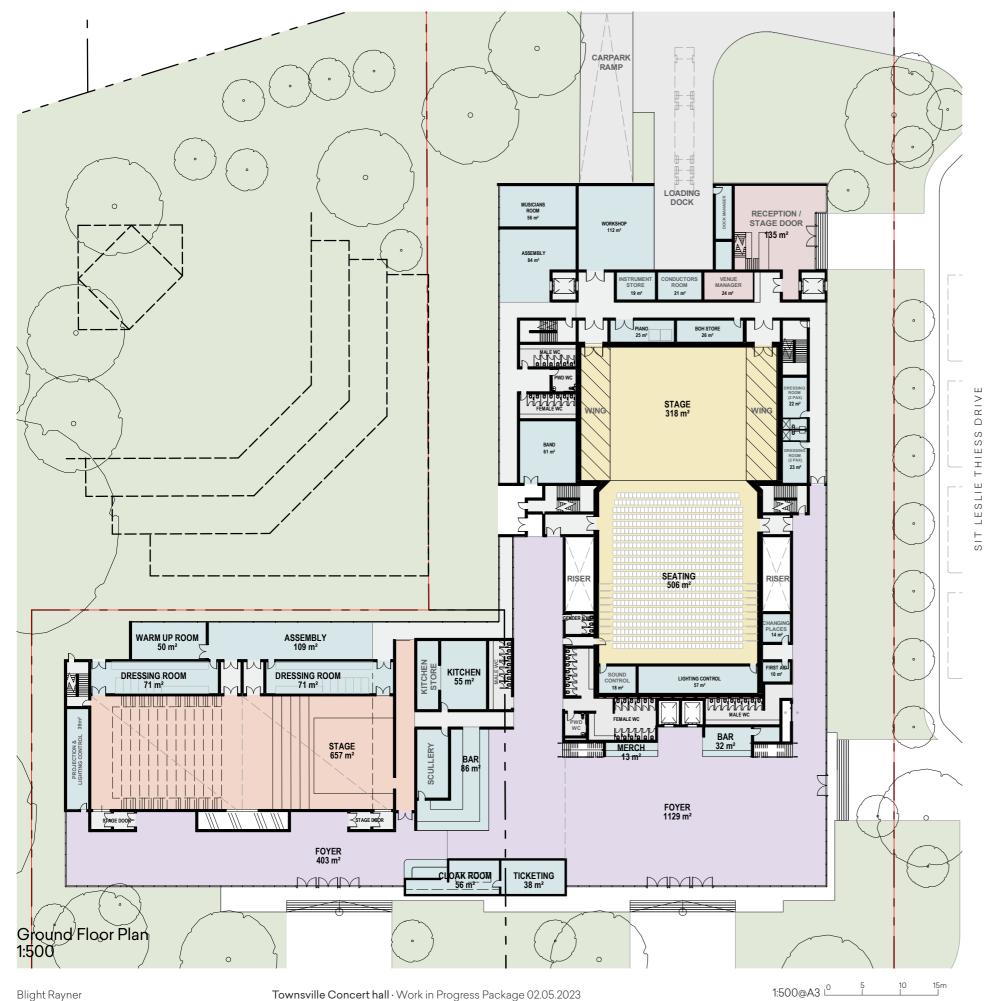
Context Map



Site Plan



Ground Floor Plan

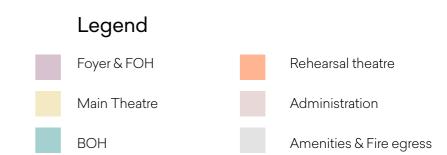


Legend Foyer & FOH Rehearsal theatre Main Theatre Administration Amenities & Fire egress ВОН

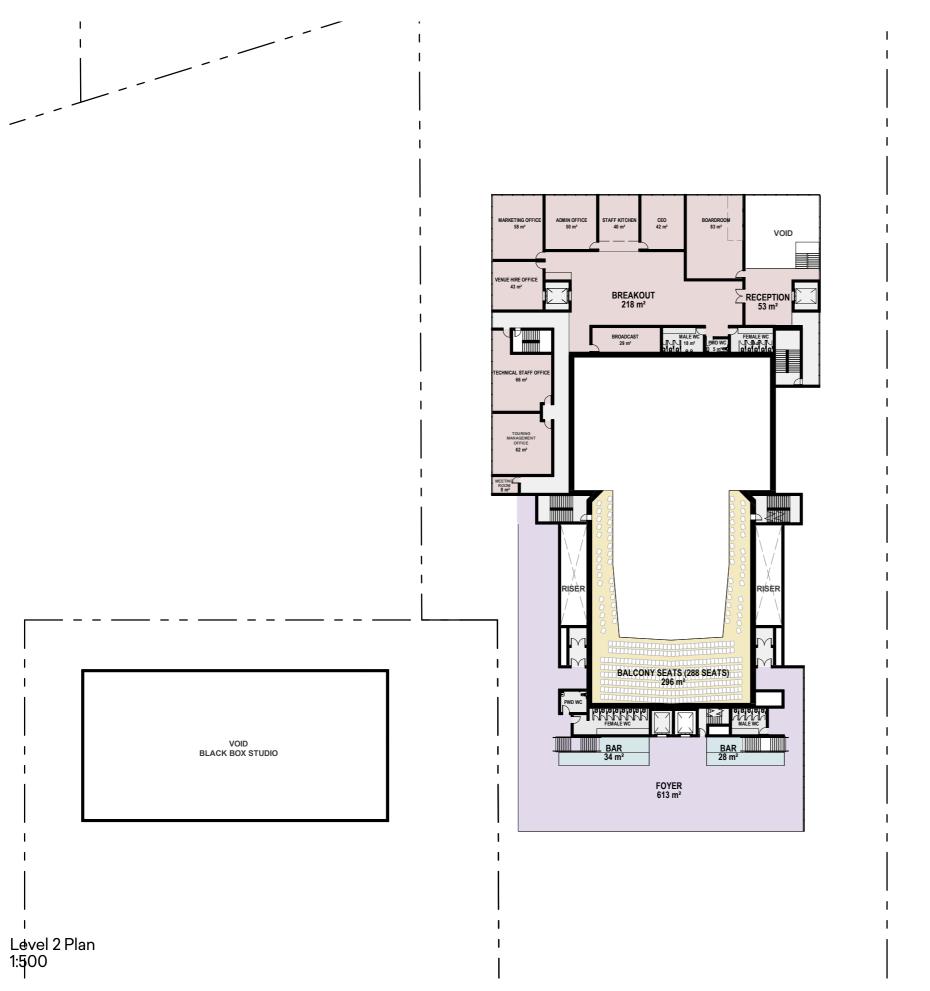
DRESSING ROOM (40 PAX) 90 m² DRESSING ROOM (40 PAX) 90 m² GREENROOM 188 m² STAGE BELOW VOID BLACK BOX STUDIO VOID FOYER BELOW VOID FOYER BELOW Level 1 Plan 1:500

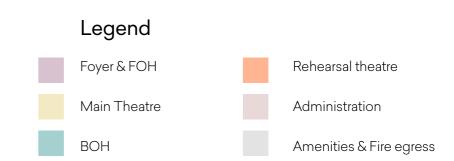
The Strand

First Floor Plan



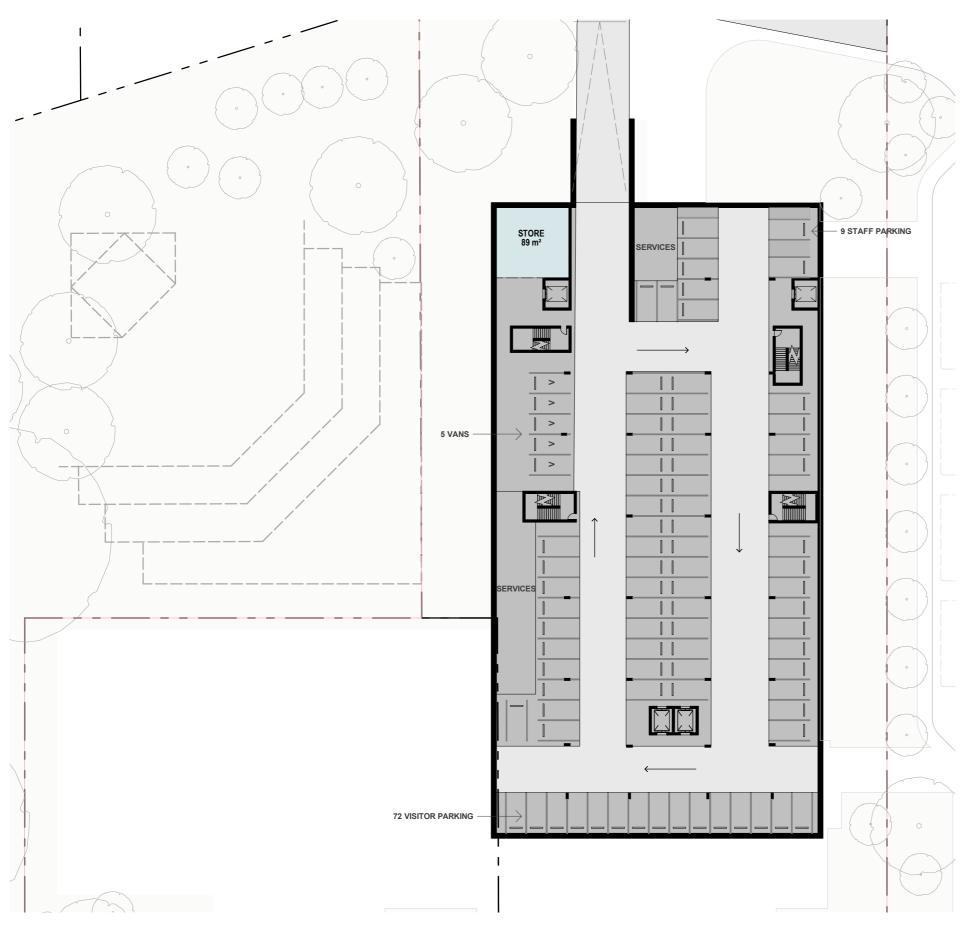
Second Floor Plan





Blight Rayner

Basement Floor Plan

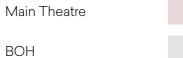


Basement Plan 1:500

1:500@A3 L⁰ 5 10 15m

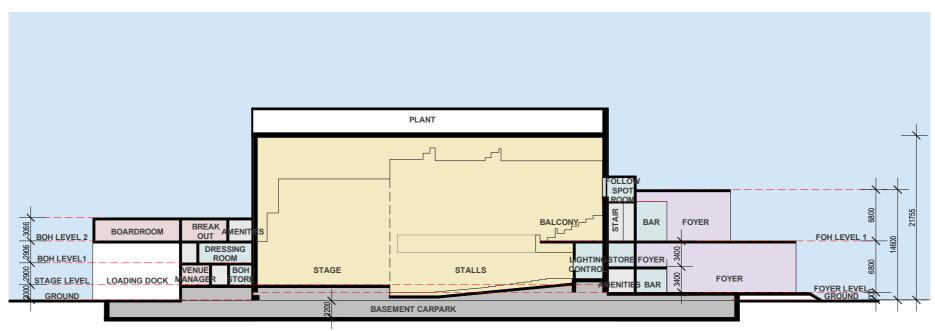
Legend

Rehearsal theatre

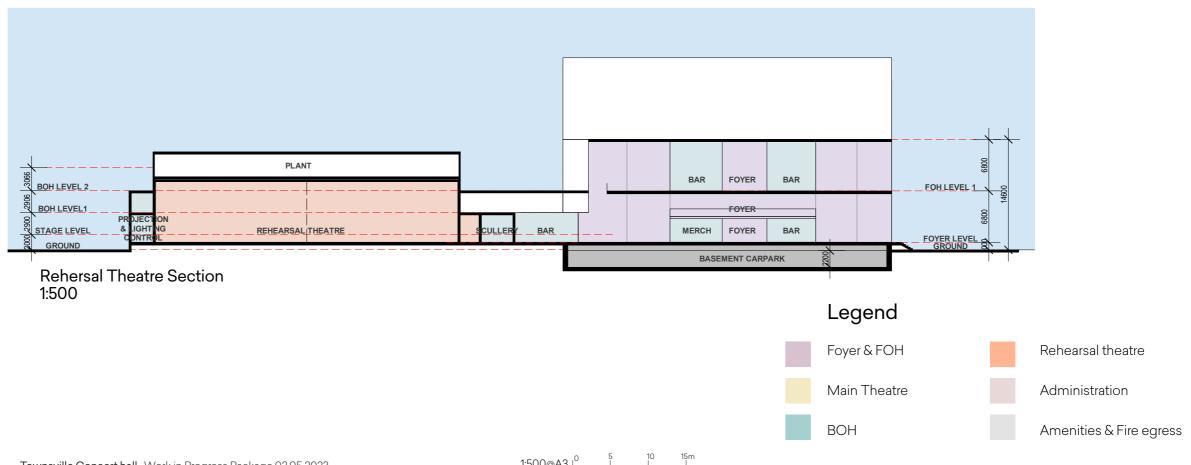




Building Section



Main Theatre Section





Dean Street Option 3

Dean Street

Context Map



Dean Street

Site Plan



_ MOREY STREET SETDOWN \bigcirc BAR RETRACTABLE SEATING Ground Floor Plan 1:500 1:500@A3 L⁰ 5

Dean Street

Ground Floor Plan

Legend Foyer & FOH Rehearsal theatre Main Theatre Administration

SETDOWN LOADING DOCK BELOW Level 1 Plan 1:500

Dean Street

Level 1 Floor Plan

LegendFoyer & FOHRehearsal theatreMain TheatreAdministrationBOHAmenities & Fire egress

SETDOWN STAGE BELOW Main Theatre Level 2 Plan 1:500 ВОН

Dean Street

Level 2 Floor Plan

Legend

Foyer & FOH

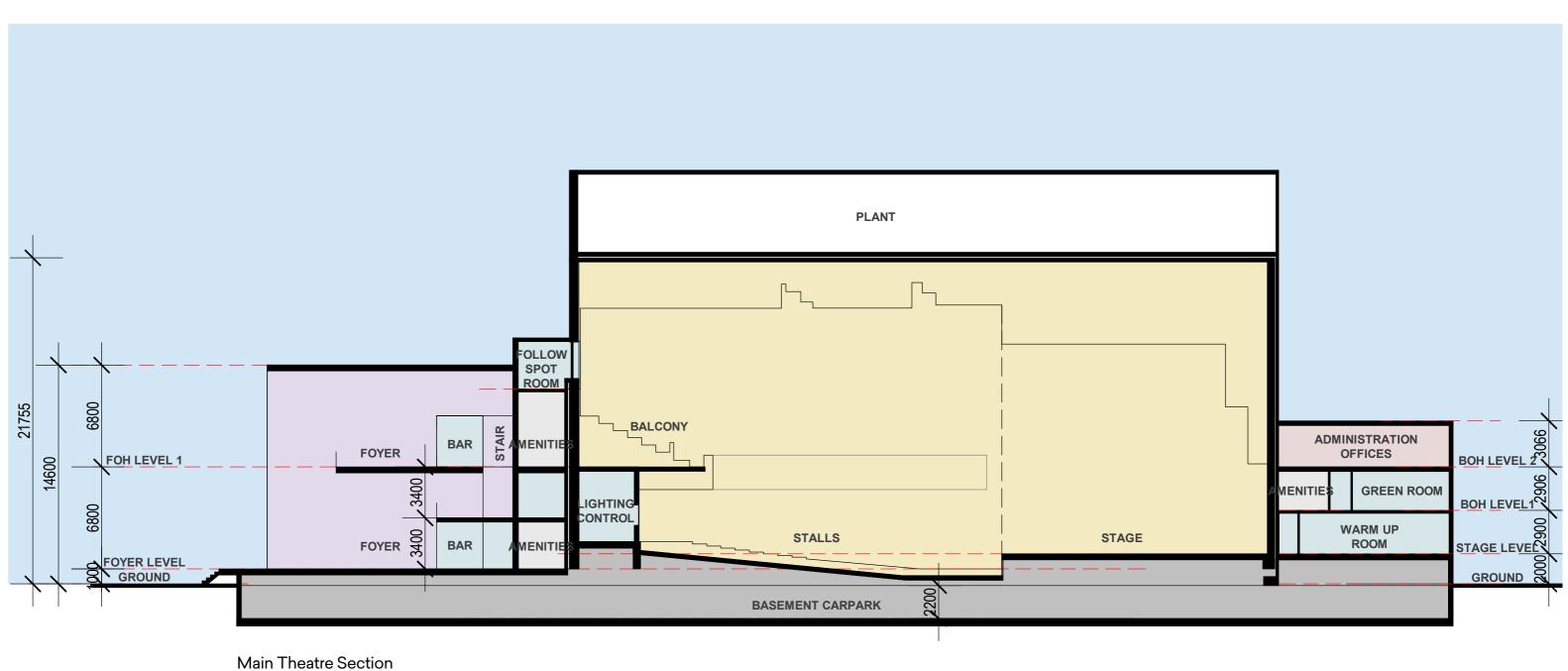
Rehearsal theatre

Administration

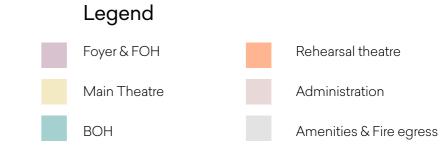
Amenities & Fire egress

Dean Street

Building Section



Main Theatre Section 1:250



Area Schedule

FLOOR	NAME	DEPARTMENT	AREA (m²)
LEVEL 03	PLANT	PLANT	
LEVEL 02	BALCONY SEATS (288 SEATS)	AUDITORIUM	300
		TOTAL STAGE 01	300
LEVEL 02	FOYER	FOYER TOTAL FOYER	620 620
LEVEL 02	BAR	ВОН	30
LEVEL 02	BAR	ВОН	30
		TOTAL BOH	60
LEVEL 02	ADMIN OFFICE	ADMIN	50
LEVEL 02	BOARDROOM	ADMIN	80
LEVEL 02	BREAKOUT	ADMIN	220
LEVEL 02	BROADCAST	ADMIN	30
LEVEL 02	CEO	ADMIN	40
LEVEL 02	MARKETING OFFICE	ADMIN	60
LEVEL 02	MEETING ROOM	ADMIN	10
LEVEL 02	RECEPTION	ADMIN	55
LEVEL 02	STAFF KITCHEN	ADMIN	40
LEVEL 02	TECHNICAL STAFF OFFICE	ADMIN	65
LEVEL 02	TOURING MANAGEMENT OFFICE	ADMIN ADMIN	60 45
LEVEL 02	VENUE HIRE OFFICE	TOTAL ADMIN	45 755
LEVEL 02	FEMALE WC	WC WC	50
LEVEL 02 LEVEL 02	MALE WC	WC	35
LEVEL 02	PWD WC	WC	15
		TOTAL WC	100
		TOTAL CIRCULATION	230
LEVEL 01	FOYER	FOYER	120
LEVELOI	FOTER		
		TOTAL FOYER	120
LEVEL 01	DRESSING ROOM (20 PAX)	ВОН	40
LEVEL 01	DRESSING ROOM (40 PAX)	ВОН	90
LEVEL 01	DRESSING ROOM (40 PAX)	ВОН	90
LEVEL 01	GREENROOM	ВОН	190
LEVEL 01	LAUNDRY	ВОН	50
LEVEL 01	LIGHTING CONTROL	BOH	60
LEVEL 01	MANAGEMENT/ SECURITY	BOH	40
LEVEL 01	PROJECTION &	BOH	40
LEVEL 01	SOUND CONTROL	BOH	15
LEVEL 01	STORE	BOH	80
LEVEL 01	TBC	BOH	20
LEVEL 01	WIG	BOH TOTAL BOH	35 750
		TOTAL BOH TOTAL CIRCULATION	750 290
		TOTAL CIRCULATION	290

GROUND FLOOR WING AUDITORIUM 1 GROUND FLOOR WING AUDITORIUM 1 GROUND FLOOR STAGE BLACK BOX STUDIO 6 GROUND FLOOR FOYER FOYER FOYER 15 GROUND FLOOR FOYER FOYER 15 GROUND FLOOR BAND BOH 1 GROUND FLOOR BAND BOH 1 GROUND FLOOR BAND BOH 9 GROUND FLOOR BAND BOH 9 GROUND FLOOR BAND BOH 9 GROUND FLOOR BOH 5 GROUND FLOOR BOH 9 GROUND FLOOR BOH 5 GROUND FLOOR BOH 5 GROUND FLOOR BOH 5 GROUND FLOOR BOH 5 GROUND FLOOR CHANGING PLACES BOH 9 GROUND FLOOR CHANGING PLACES BOH 9 GROUND FLOOR DOCK MANAGER BOH 9 GROUND FLOOR DOCK MANAGER BOH 9 GROUND FLOOR DOCK MANAGER BOH 9 GROUND FLOOR DRESSING ROOM BOH 9 GROUND FLOOR DRESSING ROOM BOH 9 GROUND FLOOR DRESSING ROOM (2 PAX) BOH 9 GROUND FLOOR BOH 9 GROUND	FLOOR	NAME	DEPARTMENT	AREA (m²)
GROUND FLOOR STAGE BLACK BOX STUDIO GROUND FLOOR FOYER FOYER 15 GROUND FLOOR FOYER FOYER 15 GROUND FLOOR ASSEMBLY BOH 1 GROUND FLOOR BAND BOH GROUND FLOOR BAR 1 BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOK MANAGER BOH GROUND FLOOR DRESSING ROOM BOH GROUND FLOOR GRO	GROUND FLOOR	SEATING	AUDITORIUM	500
GROUND FLOOR STAGE BLACK BOX STUDIO 6 GROUND FLOOR FOYER FOYER 15 GROUND FLOOR ASSEMBLY BOH 15 GROUND FLOOR BAND BOH 15 GROUND FLOOR BAND BOH BOH 15 GROUND FLOOR BAND BOH	GROUND FLOOR	STAGE	AUDITORIUM	320
GROUND FLOOR STAGE BLACK BOX STUDIO GROUND FLOOR FOYER FOYER 15 TOTAL FOYER 15 GROUND FLOOR ASSEMBLY BOH 1 GROUND FLOOR BAND BOH BOH 1 GROUND FLOOR BAR 1 BOH GROUND FLOOR BAR 1 BOH GROUND FLOOR BAR 2 BOH GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR CROSSING ROOM BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR BOTH GOTH GROUND FLOOR BOTH GOTH GROUND FLOOR BOTH GOTH GOTH GROUND FLOOR BOTH GOTH GROUND FLOOR BOTH GOTH GOTH GOTH GOTH GOTH GOTH GOTH G	GROUND FLOOR	WING	AUDITORIUM	140
GROUND FLOOR FOYER FOYER FOYER 15 TOTAL FOYER 15 GROUND FLOOR ASSEMBLY BOH 1 GROUND FLOOR BAND BOH GROUND FLOOR BAR 1 GROUND FLOOR BAR 1 BOH GROUND FLOOR BAR 1 GROUND FLOOR BAR 2 BOH GROUND FLOOR BAR 2 BOH GROUND FLOOR BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR DRESSING ROOM BOH GROUND FLOOR BRESSING ROOM (2 PAX) BOH GROUND FLOOR BRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR SOULLERY BOH GROUND FLOOR SOULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR CHANGING PLACES WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC TOTAL WC TOTAL WC TOTAL DOWN TOTAL DOWN GROUND FLOOR GENDER N WC WC TOTAL WC			TOTAL AUDITORIUM	960
GROUND FLOOR FOYER FOYER 15 TOTAL FOYER 15 GROUND FLOOR ASSEMBLY BOH 1 GROUND FLOOR BAND BOH BOH GROUND FLOOR BAND BOH GROUND FLOOR BAND BOH GROUND FLOOR BAND BOH GROUND FLOOR BOH STORE BOH GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DRESSING ROOM BOH GROUND FLOOR GROUND FLOOR GROUND FLOOR SOULLERY BOH GROUND FLOOR G	GROUND FLOOR	STAGE	BLACK BOX STUDIO	650
TOTAL FOYER 15				650
GROUND FLOOR ASSEMBLY BOH GROUND FLOOR BAND BOH GROUND FLOOR BAND BOH GROUND FLOOR BAR 1 GROUND FLOOR BAR 2 GROUND FLOOR BAR 2 BOH GROUND FLOOR BOH STORE GROUND FLOOR CHANGING PLACES GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR HITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PLAND BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PLAND BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH TOTAL BOH GROUND FLOOR CEPTION / STAGE DOOR ADMIN GROUND FLOOR GROUND CONTROL WORKSHOP BOH GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GROUND FLOOR GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC TOTAL WC TOT	GROUND FLOOR	FOYER	FOYER	1550
GROUND FLOOR BAN 1 BOH GROUND FLOOR BAR 1 BOH GROUND FLOOR BAR 2 BOH GROUND FLOOR BOH STORE BOH GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MISTIAM BOH GROUND FLOOR BOH GROUND FLOOR BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH TOTAL BOH GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC TOTAL WC T				1550
GROUND FLOOR BAR 1 BOH GROUND FLOOR BAR 2 BOH GROUND FLOOR BAR 2 BOH GROUND FLOOR BOH STORE BOH GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR FORDICALERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR FEMALE WORKSHOP BOH GROUND FLOOR FEMALE WO GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER NWC WC GROUND FLOOR GENDER NWC WC TOTAL BOM TOTAL ADMIN 1.00 TOTAL BOM TOTAL				190
GROUND FLOOR BOH STORE BOH GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PROJECTION & LIGHTING CONTROL BOH GROUND FLOOR FROM TICKETING BOH GROUND FLOOR FOOLED FLOOR SOULLERY BOH GROUND FLOOR TICKETING BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR WORKSHOP BOH TOTAL BOH 12 GROUND FLOOR FEMALE WC WC CROUND FLOOR CROUND FLOOR GROUND FLOOR FEMALE WC WC GROUND FLOOR GROUND FLOOR GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GROUND				60
GROUND FLOOR BOH STORE BOH GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR DIGHTING CONTROL GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 1 GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GROUD FLOOR CHANGING PLACES GROUND FLOOR GROUD FLOOR CHANGING PLACES GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR GROUD FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL				85
GROUND FLOOR CHANGING PLACES BOH GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DESSING ROOM BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 1 GROUND FLOOR FEMALE WC WC GROUND FLOOR GROUD FLOOR GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GROUD FLOOR GROUD FLOOR WORKSHOP WORKSHOP WORKSHOP WORKSHOP WORKSHOP WORKSHOP WORKSHOP BOH GROUND FLOOR GROUND FLOOR GROUND FLOOR WORKSHOP W				30
GROUND FLOOR CLOAK ROOM BOH GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR DIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM OP ROOM BOH GROUND FLOOR WARM OP ROOM BOH GROUND FLOOR CRECEPTION / STAGE DOOR ADMIN TOTAL BOH 12 GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				25
GROUND FLOOR CONDUCTORS ROOM BOH GROUND FLOOR DCCK MANAGER BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MISSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR VENUE MANAGER ADMIN 12 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC GROUND FLOOR MALE WC WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				15
GROUND FLOOR DOCK MANAGER BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH TOTAL BOH 12 GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 1 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL W				55
GROUND FLOOR DRESSING ROOM BOH GROUND FLOOR DRESSING ROOM BOH GROUND FLOOR DRESSING ROOM BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR BOH GROUND FLOOR BOH GROUND FLOOR BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM UP ROOM GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN TOTAL BOH 12 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL WC				20
GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 12 GROUND FLOOR VENUE MANAGER ADMIN 15 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC GROUND FLOOR MALE WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC TOTAL WC TOTAL				15
GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR BOH GROUND FLOOR BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				75
GROUND FLOOR DRESSING ROOM (2 PAX) BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR FIRST AID BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 12 GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				75
GROUND FLOOR FIRST AID BOH GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR POOLE BOH GROUND FLOOR POOLE BOH GROUND FLOOR BOH GROUND FLOOR BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 1 GROUND FLOOR VENUE MANAGER ADMIN 1 GROUND FLOOR FEMALE WC WC 1 GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC		, ,		20
GROUND FLOOR INSTRUMENT STORE BOH GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PROJECTION & LIGHTING CONTROL BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 12 GROUND FLOOR FEMALE WC WC GROUND FLOOR GROUND FLOOR CHANGING PLACES WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC GROUND FLOOR PWD WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				25
GROUND FLOOR KITCHEN BOH GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 12 GROUND FLOOR VENUE MANAGER ADMIN 1 GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				10
GROUND FLOOR KITCHEN STORE BOH GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR GROUND FLOOR GROUND FLOOR WORKSHOP WORKSHOP WORKSHOP GROUND FLOOR WENUE MANAGER ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC GROUND FLOOR MALE WC TOTAL WC TOTAL WC TOTAL WC				20
GROUND FLOOR LIGHTING CONTROL BOH GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 1 GROUND FLOOR VENUE MANAGER ADMIN 1 GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC WC GROUND FLOOR GENDER N WC WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				55
GROUND FLOOR MERCH BOH GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PIANO BOH GROUND FLOOR POOJECTION & LIGHTING CONTROL GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH TOTAL BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN TOTAL BOH 12 GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN 13 GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR WALE WC GROUND FLOOR WALE WC GROUND FLOOR WALE WC GROUND FLOOR WC GROUND FLOOR GENDER N WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL WC TOTAL WC				30
GROUND FLOOR MUSICIANS BOH GROUND FLOOR PIANO BOH GROUND FLOOR PROJECTION & LIGHTING CONTROL GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR GENDER N WC GROUND FLOOR GENDER N WC GROUND FLOOR WC GROUND FLOOR GENDER N WC GROUND FLOOR WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				60
GROUND FLOOR PIANO BOH GROUND FLOOR PROJECTION & LIGHTING CONTROL GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 12 GROUND FLOOR VENUE MANAGER ADMIN 14 GROUND FLOOR FEMALE WC WC TOTAL ADMIN 15 GROUND FLOOR GENDER N WC WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR PWD WC TOTAL WC TOTAL WC TOTAL WC				15
GROUND FLOOR LIGHTING CONTROL GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 12 GROUND FLOOR VENUE MANAGER ADMIN 1 GROUND FLOOR FEMALE WC WC 1 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL WC TOTAL WC TOTAL WC TOTAL WC				55
GROUND FLOOR SCULLERY BOH GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC TOTAL WC		PROJECTION &		25 40
GROUND FLOOR SOUND CONTROL BOH GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC TOTAL WC	00011110 51 000			
GROUND FLOOR TICKETING BOH GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH TOTAL BOH 12 GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN 13 GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC TOTAL WC TOTAL WC				40
GROUND FLOOR WARM UP ROOM BOH GROUND FLOOR WORKSHOP BOH TOTAL BOH 12 GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC TOTAL WC				20
GROUND FLOOR WORKSHOP BOH TOTAL BOH 12 GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC WC GROUND FLOOR WALE WC WC TOTAL WC TOTAL WC				40
GROUND FLOOR RECEPTION / STAGE DOOR ADMIN 1 GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN 1 GROUND FLOOR FEMALE WC WC 1 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WC TOTAL WC 2				50
GROUND FLOOR RECEPTION / STAGE DOOR ADMIN GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR WALE WC TOTAL WC TOTAL WC	GROUND FLOOR	WORKSHOP		110 1260
GROUND FLOOR VENUE MANAGER ADMIN TOTAL ADMIN GROUND FLOOR FEMALE WC WC GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL WC TOTAL WC	CPOLIND ELOOP	DECEDTION / STAGE DOOP		135
GROUND FLOOR FEMALE WC WC 1 GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC WC TOTAL WC 2		•		20
GROUND FLOOR CHANGING PLACES WC GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC TOTAL WC 2	GROUND FLOOR	VENUE WANAGER		155
GROUND FLOOR GENDER N WC WC GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC WC TOTAL WC 2	GROUND FLOOR	FEMALE WC	WC	100
GROUND FLOOR MALE WC WC GROUND FLOOR PWD WC WC TOTAL WC 2	GROUND FLOOR	CHANGING PLACES	WC	20
GROUND FLOOR PWD WC WC TOTAL WC 2	GROUND FLOOR	GENDER N WC	WC	10
TOTAL WC 2	GROUND FLOOR	MALE WC	WC	70
	GROUND FLOOR	PWD WC	WC	20
TOTAL CIRCULATION 5			TOTAL WC	220
10 M2 CINCOL MICH.			TOTAL CIRCULATION	580

TOTAL 8600

BASEMENT 01 VISITOR PARKING 80 BAYS 3480

Nominal area schedule is a preliminary estimate, subject to further verification in the design phase

T +61 7 3905 6500 info@blightrayner.com.au blightrayner.com.au

Level 3, Central Plaza Annex, 345 Queen Street, Brisbane

GPO Box 1511, Brisbane, Qld, 4001

Blight Rayner Architecture Pty Ltd

ABN 34 614 335 956

BlightRayner

Appendix B

Existing parking provision





		CARPAR	RK COUNT	ZONE	A (200m)			
NO. ON PLAN	LOCAT				PRIVATE PAR	KING	VACANT LAND	
1		rs / King	36 (4hr fre	e)	203 (Paid)		26 in dirt area on	
	Stree				200 1/ 0.0/		Kings Road	
2	Wickh	am Street	8 (2hr free), 21 (8hr free)					
3	The S	trand	17 (3hr free), 33(8hr free), 21 (4hr free)		123 (Paid) in C Council parkir			
4		e Street/	15 (Free)		26 in Australian			
	Melto	n Terrace	TOT	A1	Red Cross pa	rking		
		ON STREET PARK		PRIVATE P	ARKING	VAC	ANT LAND	
#		15			352		26	
			RK COUNT					
NO. ON PLAN	LOCA1	TION Terminal	ON STREET	PARKING	PRIVATE PAR 301 (Paid and	KING	VACANT LAND	
5	parkir				restricted tin	res)		
6	The S	trand	34 (Free), 4 free), 19 (3)					
7	Clevel	land Terrace	10 (Free)	iii ii cci				
8	Flinde	rs Street			59 (Paid) in City Council Parking			
9	Tomlin	ns Street	22 (Free)		COUNCIL F al KII	iy		
10	Antho	ny Street	31 (Free)					
11	_	r Street	41 (2hr free	e)				
12		ead Street	22 (Free) 14 (Free), 7	(2br				
13	Plume	Street	free), 3 (1hi					
		ON CTTTT	TOT		- Pichic	les:		
#		ON STREET PARE		PRIVATE P	ARKING 360	VACA	ANT LAND _	
		CARPAR	RK COUNT	ZONE	C (800m)			
NO. ON PLAN	LOCAT				PRIVATE PAR		VACANT LAND	
14	The V	ille			339 (Free), 21 (Event only)	0		
15	Marine	ers Drive	79 (Free)		,,			
16	The S	trand	121 (Free)					
17	Fryer	Street	62 (6hr par (Free)	king), 20				
18	Mitche	ell Street	25 (2hr fre	e), 14 (15				
		land Terrace /	min free)	3 (8hr	32 in Saint Ja	mes		
19		i Street	' 20 (Free), 23 (8hr Free), 9 (2hr free)		Cathedral Carpark			
20	Denha	m Street	13 (8hr free free)	e), 28 (2hr	40 (Paid) in Ci Council carpa			
21	Evre	Street	11 66/		46 (paid) in Ci	ty		
21	Lyre	JII eei	20 /5\ 2	12 /25-	Council carpa	rk		
22	Plume	Street	39 (Free), 2 free)	3 (ZNr				
23	Palme	r Street	18 (2hr free min free) 32					
24	Mailur	ath Street	145 (Free),	4 (2hr			24 in open dirt area	
			free), 7 (1hi	r free)			24 III open diri area	
25 26		th Street son Street	82 (Free) 40 (Free)					
27	_	n Street	24 (Free)					
20	D1:-	Ctt					28 in grass area	
28	Perkir	ns Street					before railway wall/ fence line	
29	Perkir Stree	ns / Allen +	28 (Free)					
30		ns Street	11 (2hr free), 9 (15				
31		ead Street	min free) 32 (Free)					
32		w Street	32 (Free) 31 (Free)					
33		rs Street	1		57 (Paid) in City			
					Council parking 156 (Paid) Wilson			
34	Ogden	Street	33 (2hr fre	e)	Parking	110011		
35		s Street	38 (2hr fre					
36		rs Street	51 (2hr free	·				
37 38	_	Street r Street	62 (2hr fre 41 (4hr fre					
39	_	on Street	14 (Free)	-1				
			тот					
#		ON STREET PARE		PRIVATE P	ARKING 880	VAC	ANT LAND 52	
			OTAL ZOI	NE COU			JL	
TYPE		ON STREET PA		PRIVATE		VAC	ANT LAND	
Free		85			58		78	
Paid (Postricted	Accas-1	-		-	684	-	-	
Paid (Restricted . 8hr free	ACCESS)	9(301	+	-	
6hr free		62			-	+	-	
4hr free		98			-		-	
			5	-		-	-	
3hr free					_	1	-	
3hr free 2hr free		35					-	
3hr free		35 14 26	,				-	

TOWNSVILLE CONCERT HALL 60679990

A 13/04/2023 TOWNSVILLE CONCERT HALL- THE HIVE PARKING ANALYSIS



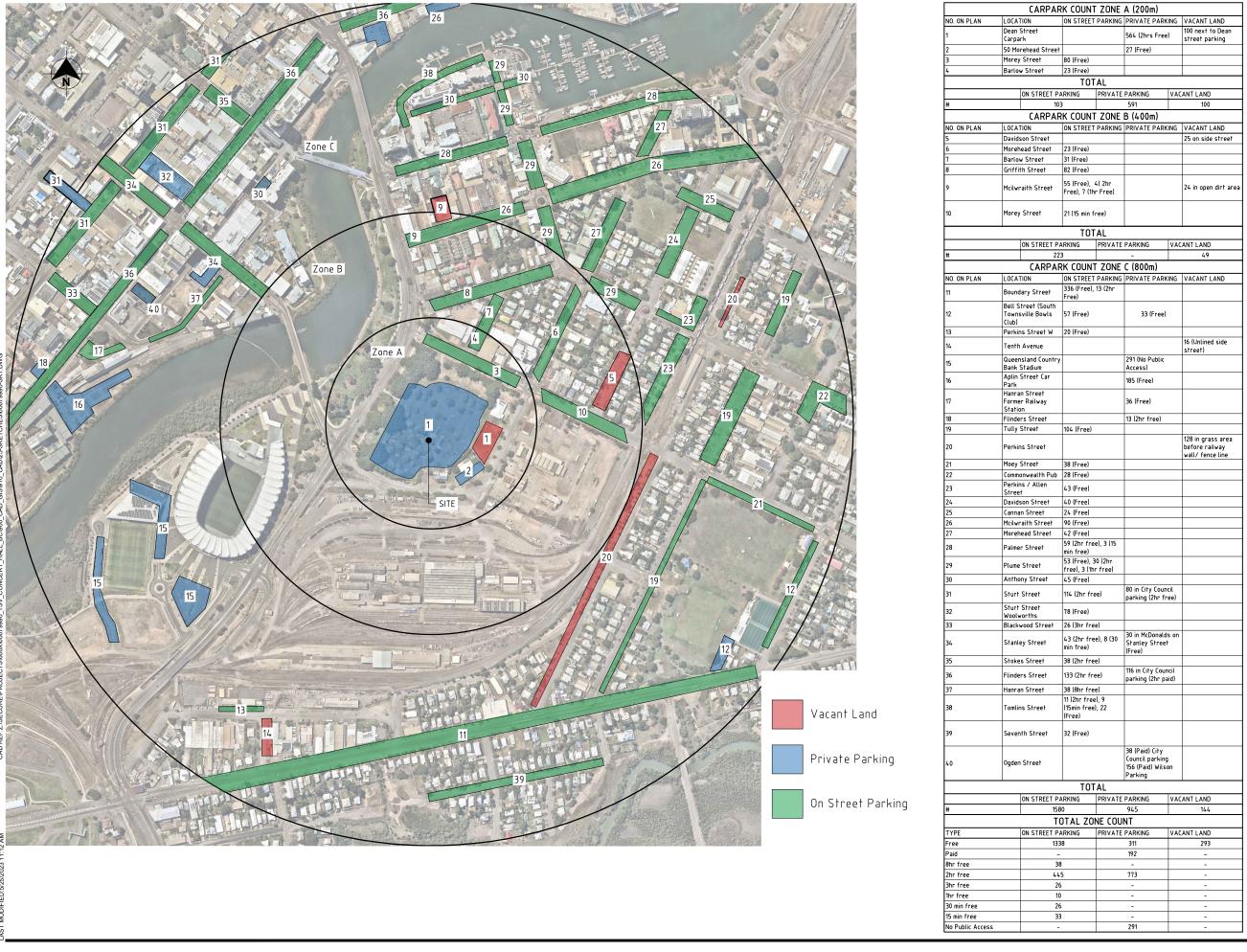


NO ON DUAN		RK COUNT			anc	VACANT LAND
NO. ON PLAN	LOCATION Flinders / King	ON STREET PARKING 36 (4hr free)		PRIVATE PARKING 203 (Paid)		VACANT LAND 26 in dirt area on Kings Road
2	Street The Strand	15 (Free), 17 (3hr		123 (Paid) in City		Ining's Rodu
	Ferry Terminal	free), 33 (8hr free), 21 (4hr free)		Council parking 301 (Paid and		
3	Parking	3(2hr free),	21 (8hr	restricted tin	nes)	
4	Wickham Street	free)				
	ON STREET PARI		PRIVATE PA	ARKING	VACA	ANT LAND
#	12:			627		26
	CARPAR	RK COUNT	ZONE	B (400m)		
NO. ON PLAN	LOCATION	ON STREET F		PRIVATE PARK	(ING	VACANT LAND
5	The Strand Thorpe Street/	free), 19 (3h		26 in Australia	\n_	
6	Melton Terrace	15 (Free)		26 in Australian Red Cross parking		
7	Cleveland Terrace	10 (Free)				
8	Flinders Street			59 (Paid) in Cit Council Parkin		
9	Wickham Street	5(2hr free)				
	lau	TOTA		- Burne	I	
#	ON STREET PARI	_	PRIVATE PA	ARKING 85	VACA	ANT LAND
		RK COUNT	70NF			-
NO. ON PLAN	LOCATION			PRIVATE PARK	(ING	VACANT LAND
10	Mariners Drive	79 (Free)	ARMINU	. M. AIL FARP		- ASSITT LAND
11	The Strand	121 (Free)				
12	The Ville			339 (Free), 210 (Event only)		
13	Fryer Street	20 (Free), 62 (6hr parking)				
14	Cleveland Terrace / Amarti Street	20 (Free), 23 (8hr Free), 9 (2hr free)		32 in Saint James Cathedral Carpark		
15	Denham Street	13 (8hr free), 28 (2hr free)		40 (Paid) in Cit Council carpar		
16	Perkins / Allen Street	28 (Free)				
17	Sturt Street	62 (2hr free)		57 (Paid) in Cit	у	
18 19	Flinders Street Ogden Street	24 (2hr free) 33 (2hr free)		Council parking	9	
20	Tomlins Street	11 (2hr free), 9				
	Tollians Street	(15min free), 22 (Free) 53 (Free), 30 (2hr				
21	Plume Street	free), 3 (1hr free)				
22	Anthony Street	45 (Free) 59 (2hr free), 3 (15			
23	Palmer Street	min free), 32				
24	Morehead Street	42 (Free)	(2hr			
25	Mcilwrath Street	145 (Free), 4 free), 7 (1hr				24 in open dirt are
26	Davidson Street	40 (Free)				
27	Cannan Street	24 (Free)				
28	Perkins Street					28 in grass area before railway wall/ fence line
29	Perkins / Allen Street	28 (Free)				watty relice tille
30	Griffith Street	82 (Free)				
31	Morehead Street	6 (Free)				
		TOTA	\L_			
	ON STREET PARI		PRIVATE PA		VACA	ANT LAND
#	116		IE COLII	678 N.T.		52
TVDC		OTAL ZON			\	ANT LAND
TYPE	ON STREET P.		PRIVATE		VAC	ANT LAND
Free Paid	85			397 482		78 -
Paid Paid (Restricted)	-			301	+	-
8hr free	91			-	\vdash	-
6hr free	62			-		-
4hr free	5′			-		-
3hr free	61			-		-
2hr free	23			-		-
1hr free	1/			-	_	-
15 min free	12			-	1	-
Event Only	-	1		210	1	_

TOWNSVILLE CONCERT HALL 60679990

A 13/04/2023 TOWNSVILLE CONCERT HALL- THE STRAND PARKING ANALYSIS





TOWNSVILLE CONCERT HALL 60679990 A 13/04/2023 TOWNSVILLE CONCERT HALL- DEAN STREET PARKING ANALYSIS