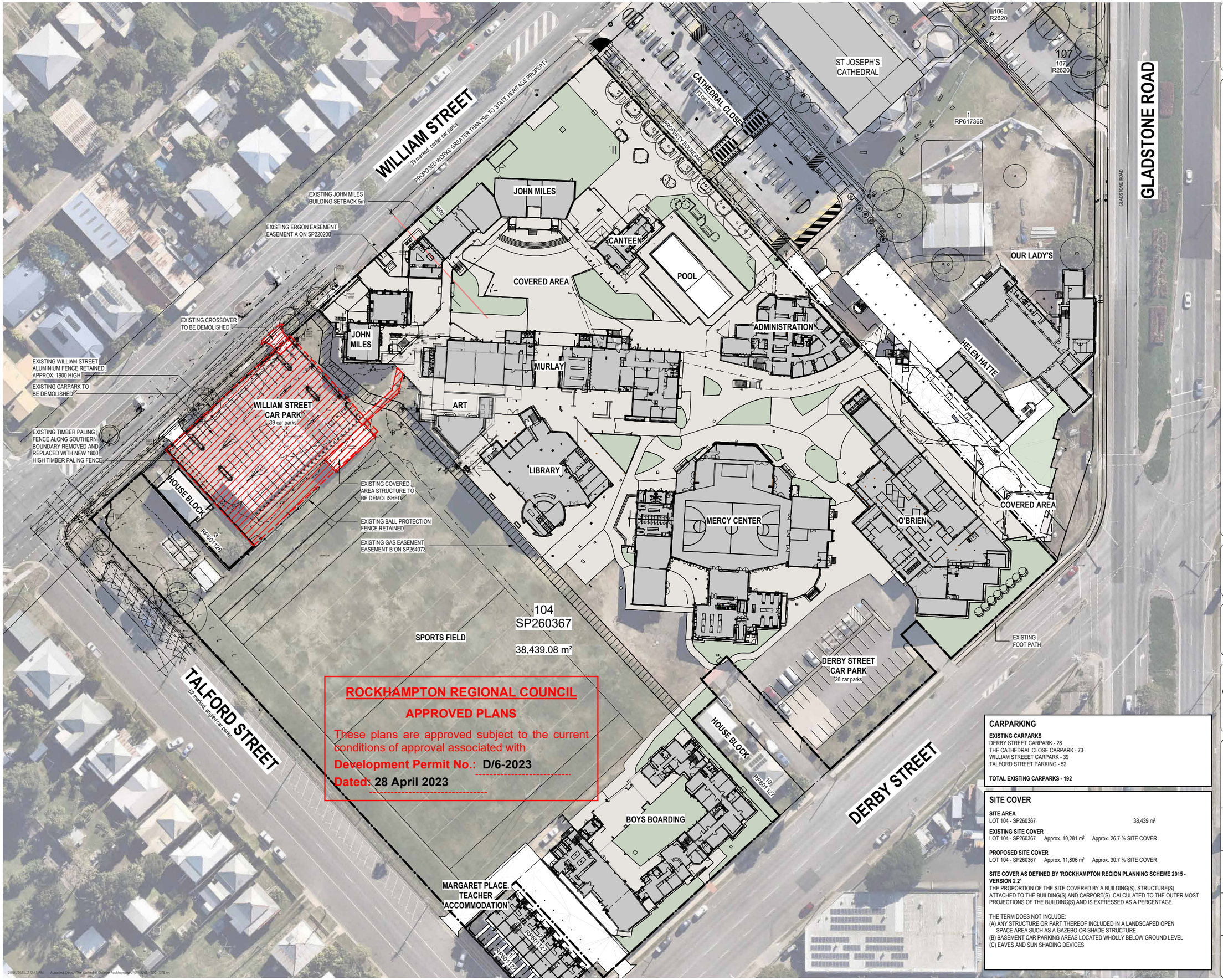

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/6-2023

Dated: 28 April 2023

20/01/2023 12:43 PM Autodesk Docs://The Cathedral College Rockhampton/A21-2263 - TCC - SITE.rvt

GENERAL NOTES

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SITE AREA

LOT 104 - SP260367	38,439 m²

GROSS FLOOR AREA

LOT 104 SP260367	
GROUND FLOOR - EXISTING GFA	7,944 m²
FIRST FLOOR - EXISTING GFA	4,455 m²
TOTAL EXISTING GFA	**12,399 m²**

EXTERNAL IMPERVIOUS SURFACES

(NOTE: AREAS EXCLUDE BUILDING GFA)

EXISTING EXTERNAL IMPERVIOUS SURFACES	**14,230 m²**

TOTAL IMPERVIOUS AREA

(GROUND FLOOR GFA + EXTERNAL IMPERVIOUS SURFACES)

EXISTING TOTAL IMPERVIOUS AREA	**22,174 m² / 57.7 %**

LANDSCAPE AREA (PERVIOUS)

EXISTING LANDSCAPE AREA	**16,265 m² / 42.3 %**

CARPARKING

EXISTING CARPARKS

DERBY STREET CARPARK - 28
THE CATHEDRAL CLOSE CARPARK - 73
WILLIAM STREEET CARPARK - 39
TALFORD STREET PARKING - 52

TOTAL EXISTING CARPARKS - 192

SITE COVER

SITE AREA

LOT 104 - SP260367 38,439 m²

EXISTING SITE COVER

LOT 104 - SP260367 Approx. 10,281 m² Approx. 26.7 % SITE COVER

PROPOSED SITE COVER

LOT 104 - SP260367 Approx. 11,806 m² Approx. 30.7 % SITE COVER

SITE COVER AS DEFINED BY 'ROCKHAMPTON REGION PLANNING SCHEME 2015 - VERSION 2.2'

THE PROPORTION OF THE SITE COVERED BY A BUILDING(S), STRUCTURE(S) ATTACHED TO THE BUILDING(S) AND CARPORT(S), CALCULATED TO THE OUTER MOST PROJECTIONS OF THE BUILDING(S) AND IS EXPRESSED AS A PERCENTAGE.

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(C) EAVES AND SUN SHADING DEVICES

scale @A1 1 : 500 scale @A3 1:1000

0 25m 1:500

PRELIMINARY

REV.	DESCRIPTION	ISSUED BY	DATE
P1	PRELIMINARY ISSUE		13/10/2022
P2	DA ISSUE	KR	20/01/2023

TONY MADDEN ARCHITECTS
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client:
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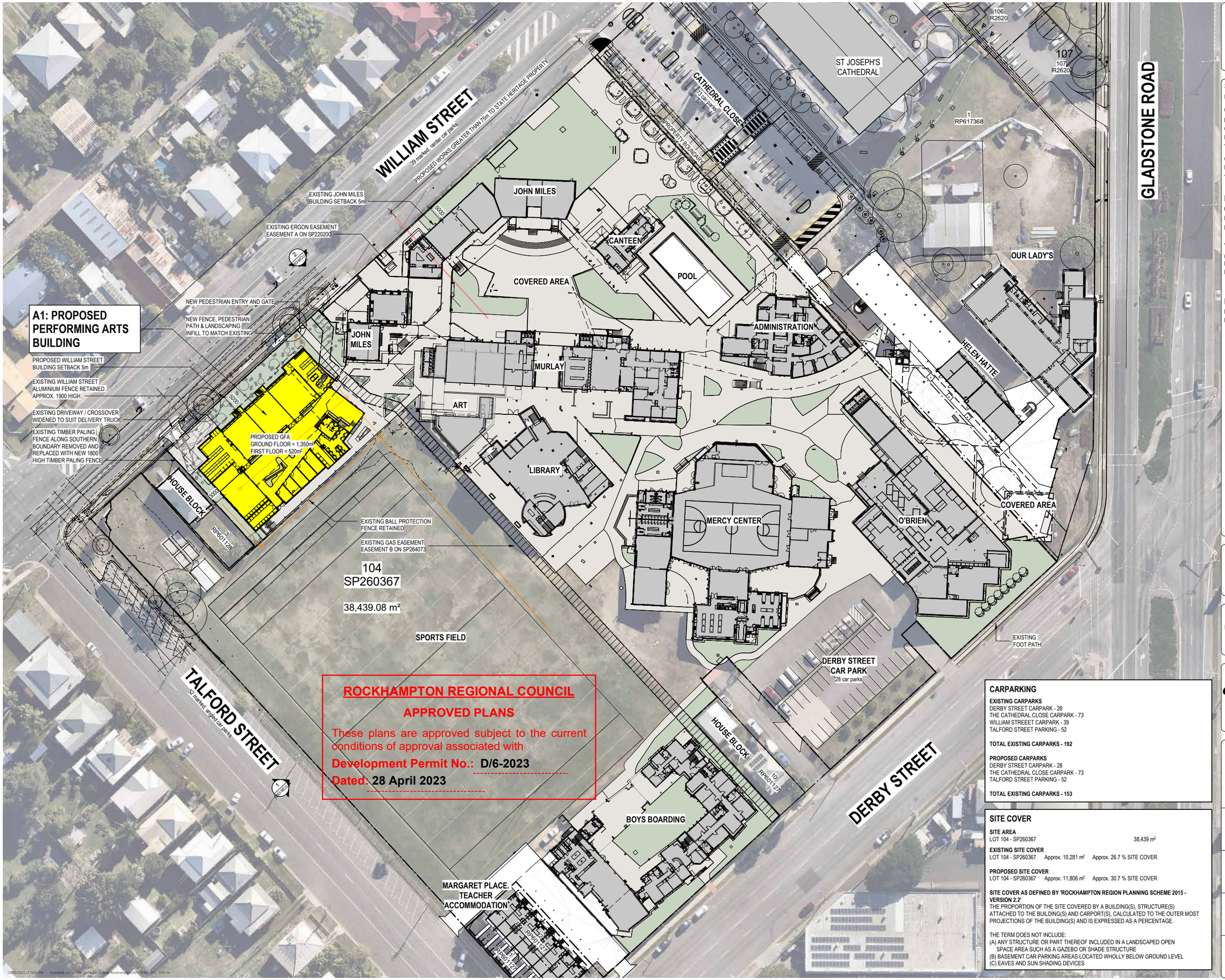
location:
THE CATHEDRAL COLLEGE ROCKHAMPTON

project:
PERFORMING ARTS CENTRE

drawing title:
EXISTING - OVERALL SITE PLAN - GROUND LEVEL

job no:	drawing no:	rev:
2263	MCU-01	P2



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LOT 104 SP260367	
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TOTAL EXISTING GFA	**12,399 m²**
GROUND FLOOR - PROPOSED ADDITIONAL GFA	+ 1,350m²
FIRST FLOOR - PROPOSED ADDITIONAL GFA	+ 520 m²
TOTAL PROPOSED GFA	**14,269 m²**

EXTERNAL IMPERVIOUS SURFACES

(NOTE: AREAS EXCLUDE BUILDING GFA)

EXISTING EXTERNAL IMPERVIOUS SURFACES	**14,230 m²**
PROPOSED EXTERNAL IMPERVIOUS SURFACES	**13,180 m²**

TOTAL IMPERVIOUS AREA

(GROUND FLOOR GFA + EXTERNAL IMPERVIOUS SURFACES)

EXISTING TOTAL IMPERVIOUS AREA	**22,174 m² / 57.7 %**
PROPOSED TOTAL IMPERVIOUS AREA	**22,474 m² / 58.5 %**

TOTAL INCREASE IN IMPERVIOUS AREA 0.8%

LANDSCAPE AREA (PERVIOUS)

EXISTING LANDSCAPE AREA	**16,265 m² / 42.3 %**
PROPOSED LANDSCAPE AREA	**15,965 m² / 41.5 %**

CARPARKING

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TOTAL EXISTING CARPARKS - 153

SITE COVER

SITE AREA
LOT 104 - SP260367 38,439 m²

EXISTING SITE COVER
LOT 104 - SP260367 Approx. 10,281 m² Approx. 26.7 % SITE COVER

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scale @A1 1 : 500 scale @A3 1:1000
0 25m 1:500

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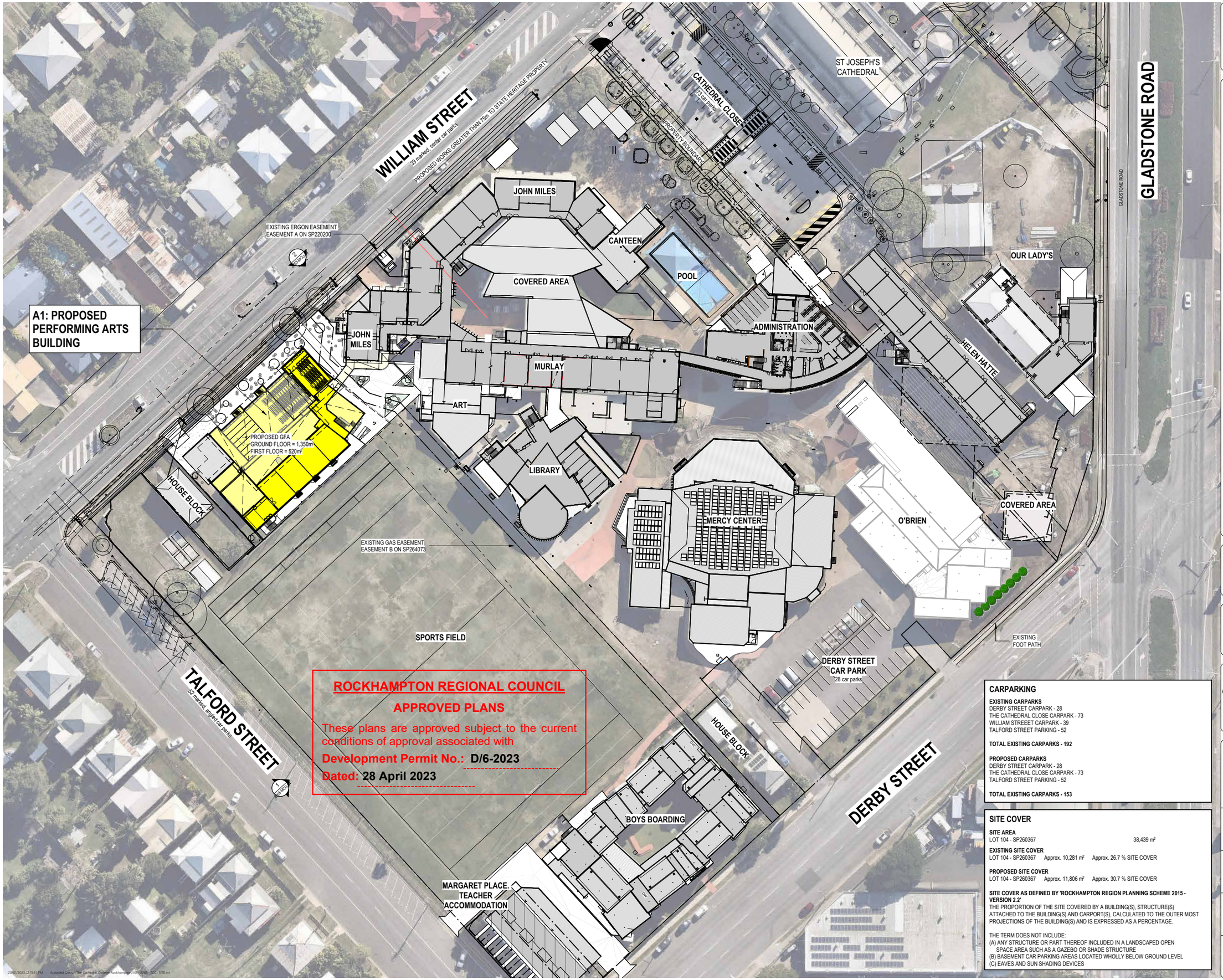
location:
THE CATHEDRAL COLLEGE ROCKHAMPTON

project:
PERFORMING ARTS CENTRE

drawing title:
PROPOSED - OVERALL SITE PLAN - GROUND LEVEL

job no:	drawing no:	rev:
2263	MCU-02	P2



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0 25m 1:500

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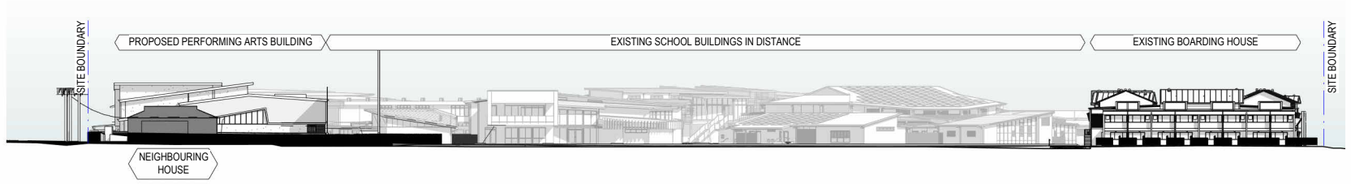
THE CATHEDRAL COLLEGE ROCKHAMPTON

project:
PERFORMING ARTS CENTRE

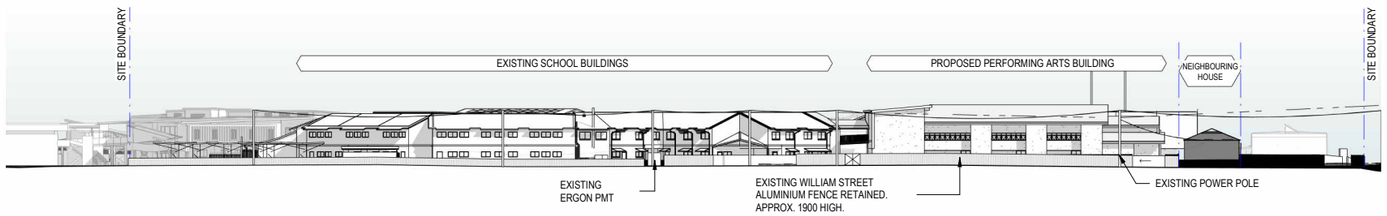
drawing title:
PROPOSED - OVERALL SITE PLAN - FIRST FLOOR

job no:	drawing no:	rev:
2263	MCU-03	P2



1 (2263-A0-101) TALFORD STREET ELEVATION

1 : 500 @ A1



2 (2263-A0-101) WILLIAM STREET ELEVATION

1 : 500 @ A1

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scale @A1	scale @A3
1 : 500	1:1000

0 25m 1:500

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project:
PERFORMING ARTS CENTRE

drawing title:
STREET ELEVATIONS

job no:	drawing no:	rev:
2263	MCU-04	P2

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SITE BOUNDARY
EXISTING POWER POLE
EXISTING FOOTPATH
RETAIN EXISTING ALUMINIUM FENCING APPROX. 1.9m HIGH
5000 SETBACK
NEW LANDSCAPING
NEW CONCRETE PATH, FENCE AND LANDSCAPING INFILL TO EXISTING DRIVEWAY.
EXISTING CROSSOVER / DRIVEWAY TO BE WIDENED TO SUIT DELIVERY TRUCK
LOADING BAY
OUTLINE OF ROOF OVER
NEW GATE TO MATCH EXISTING FENCE
EXISTING JOHN MILES BUILDING
5000 SETBACK (BEYOND)
NEW CONCRETE PATH
GAS EASEMENT
3 RP601128 NEIGHBOURING LOT & HOUSE
APPROX. 4150 TO ADJACENT PROPERTY
Drama/ Tech Store 1
Backstage / Drama Store
OPERABLE WALL
Dance / Drama 1
Dance / Drama 2
Dance / Drama 3
Drama/ Tech Store 2
Servery / Kitchenette
EXISTING JOHN MILES BUILDING
3000 SETBACK
Music - Ensemble Line
OPERABLE WALL
SEATING
OUTLINE OF LEVEL OVER
LINK ABOVE
NEW 1.8m HIGH TIMBER PALING FENCE
3m LANDSCAPING
HIGH LEVEL WINDOW ABOVE
Music
EXISTING REDUNDANT SECTION OF SEWER MAIN REMOVED
Access WC
Corridor
F.
M.
Foyer
COVERED ENTRY
NEW CONCRETE PATH
PROPOSED NEW SEWER MAIN DIVERSION
3000
Music Store 1
Music Practice 1
Control/ Music Practice 2
Music Practice 3
Music Practice 4
Music Practice 5
Music Store 2
Staff Room
Stair 1
Stair 2
Veranda
SITE BOUNDARY
EXISTING BALL PROTECTION FENCE RETAINED
8.8
OUTLINE OF ROOF OVER
PROPOSED NEW SEWER MAIN DIVERSION
NEW ACCESS CAHMBER
EASEMENT
EXISTING SEWER MAIN
GAS EASEMENT
EXISTING ARTS BUILDING
SPORTS FIELDS

ROCKHAMPTON REGIONAL COUNCIL

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scale @A1 1 : 100 scale @A3 1:200

0 5m 1:100

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location: THE CATHEDRAL COLLEGE ROCKHAMPTON

project: PERFORMING ARTS CENTRE (OPTION J)

drawing title: PROPOSED GROUND FLOOR PLAN

job no:	drawing no:	rev:
2263	MCU-10	P2

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SITE BOUNDARY

5000 SETBACK

OUTLINE OF ROOF OVER

EXISTING JOHN MILES BUILDING 5000 SETBACK (BEYOND)

NEIGHBOURING LOT & HOUSE

APPROX. 7.5°

METAL ROOF SHEETING

3000 SETBACK

VOID

OPERABLE WALL

Control Room

Lecture Room

SLIDING DOORS

EXISTING JOHN MILES BUILDING

Ciculation

PROPOSED NEW UPPER LEVEL CIRCULATION LINK TO EXISTING JOHN MILES BUILDING

Production Room

Film & TV

GLA 03

GLA 02

GLA 01

Stair 1

Stair 2

Ciculation/ Veranda

SITE BOUNDARY

EXISTING BALL PROTECTION FENCE RETAINED

OUTLINE OF ROOF OVER

EXISTING ARTS BUILDING

SPORTS FIELDS

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0 5m 1:100

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project:
PERFORMING ARTS CENTRE (OPTION J)

drawing title:
PROPOSED LEVEL 1 FLOOR PLAN

job no:	drawing no:	rev:
2263	MCU-11	P2

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NEIGHBOURING LOT & HOUSE

OUTLINE OF BUILDING UNDER

METAL ROOF SHEETING

APPROX. 7.5°

APPROX. 5.0°

APPROX. 4.0°

900 O/H

1630 O/H

1310 O/H

2200 O/H

EXISTING JOHN MILES BUILDING

PROPOSED NEW UPPER LEVEL CIRCULATION LINK TO EXISTING JOHN MILES BUILDING

EXISTING ARTS BUILDING

2 MCU-13

4 MCU-13

1 MCU-13

3 MCU-13

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0 5m 1:100

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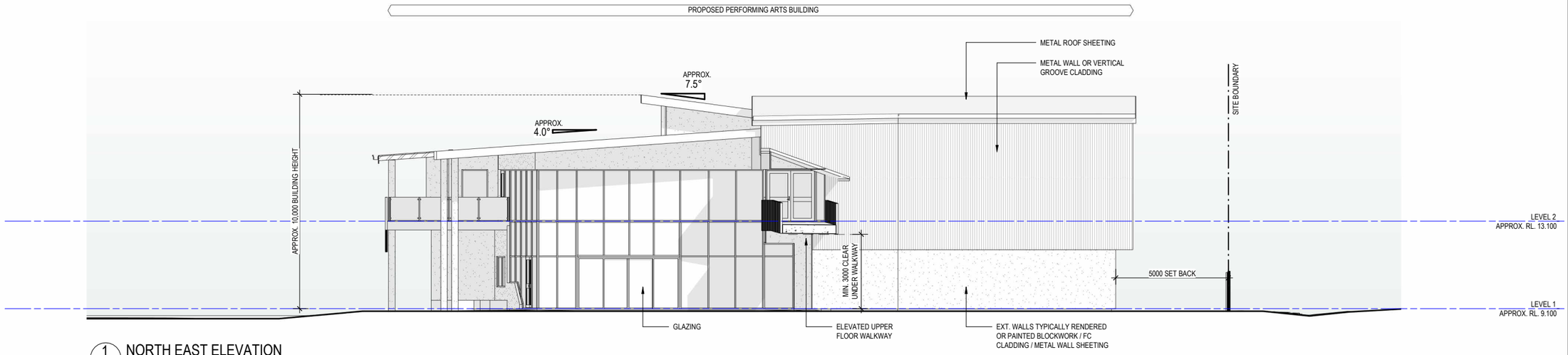
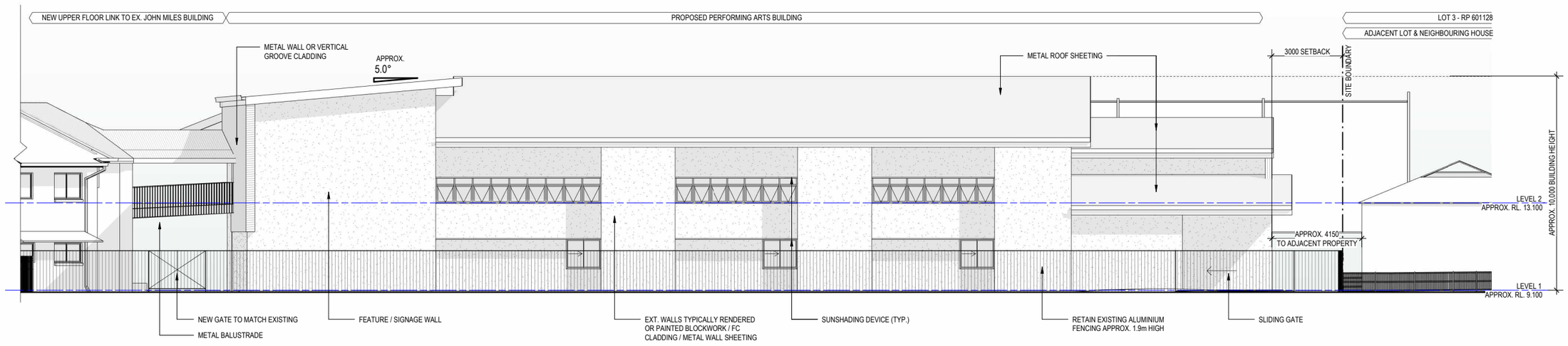
drawing title:
PROPOSED ROOF PLAN

job no:	drawing no:	rev:
2263	MCU-12	P2



1 A1-301 NORTH EAST ELEVATION

1 : 100 @ A1



2 MCU-10 NORTH WEST ELEVATION

1 : 100 @ A1

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1 : 100	1:200

0 5m 1:100

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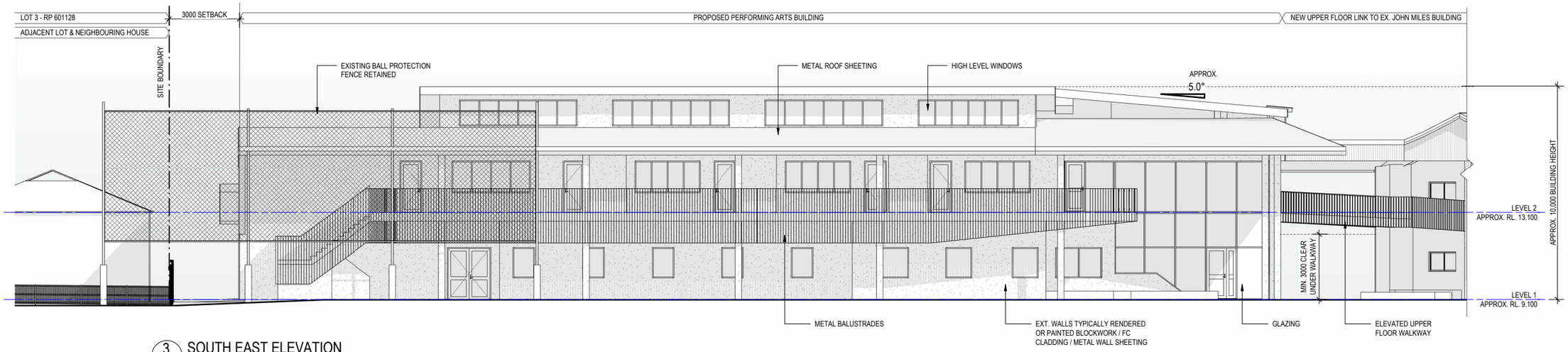
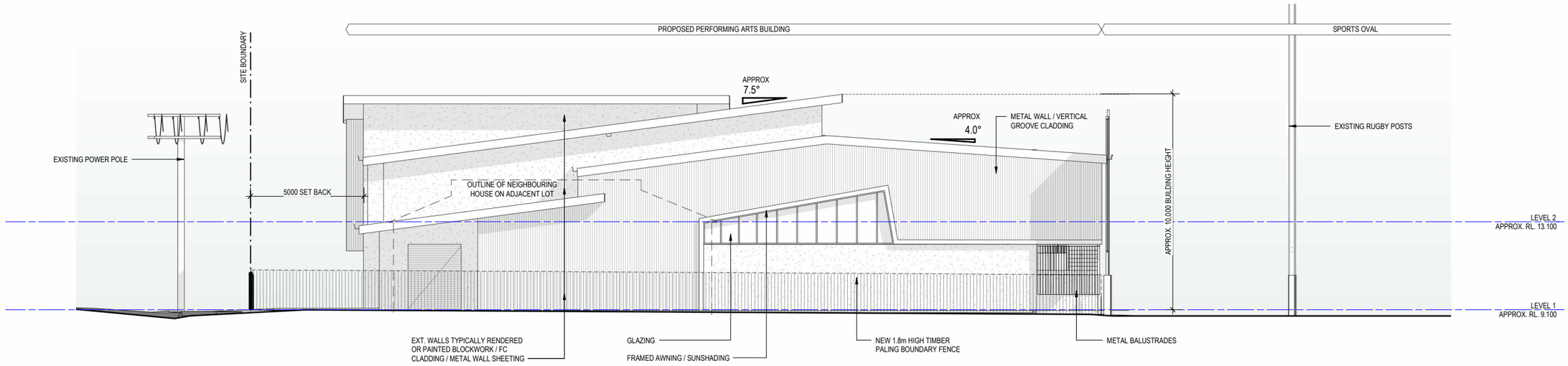
drawing title:
PROPOSED ELEVATIONS

job no:	drawing no:	rev:
2263	MCU-13	P2



3 SOUTH EAST ELEVATION
A1-301
1 : 100 @ A1



4 SOUTH WEST ELEVATION
MCU-10
1 : 100 @ A1

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ROMAN CATHOLIC TRUST CORP. FOR THE DIOCESE OF ROCKHAMPTON T/A CATHOLIC EDUCATION DIOCESE OF ROCKHAMPTON

location:
THE CATHEDRAL COLLEGE ROCKHAMPTON

project:
PERFORMING ARTS CENTRE (OPTION J)

drawing title:
PROPOSED ELEVATIONS

job no:	drawing no:	rev:
2263	MCU-14	P2

Project number 23001
Date 10 January 2023

Janes and Stewart Structures Pty Ltd
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Letter – 23001LETTM01
Tony Madden Architects
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Rockhampton, QLD 4700

Attention: Luke Madden
luke@tmarchitects.com.au

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
These plans are approved subject to the current conditions of approval associated with
Development Permit No.: D/6-2023
Dated: 28 April 2023

Dear Luke,

Technical Letter – Sewer Reticulation and Stormwater Management
Performing Arts Building, The Cathedral College
189 William Street, Rockhampton

Janes and Stewart Structures Pty Ltd has prepared this civil engineering technical letter in support of the Development Application for Material Change of Use (MCU) relating to a new performing arts centre at The Cathedral College, Rockhampton (Lot 104 on SP260367). The performing arts centre is proposed to be located on the footprint of an existing off-street car park on the college site, where the car park will be demolished as part of the project. The proposed ground floor site plan for the performing arts centre prepared by Tony Madden Architects in attached to this letter.

This letter intends to provide advice in relation to the following aspects of the project:

- Intended treatment of the existing Council gravity sewer main traversing the area of the project.
- Overview of the intended stormwater drainage strategy including a review of stormwater quantity and quality requirements associated with the project.

The locality of the subject site can be seen in the following aerial photo.

Figure 1 Locality Image (Aerial Source: QLD Globe)

Sewer Reticulation

An existing gravity sewer main exists within the footprint of the proposed performing art centre. This sewer main is a Rockhampton Regional Council asset and is primarily in place to service the neighbouring residential allotment (Lot 3 on RP601128) to the west of the proposed building area.

Based on Council's services information, the existing gravity sewer main is currently a 150mm diameter of Earthenware material type where the Council gravity sewer system traverses through the college site towards Derby Street. Existing access chambers are in place at the upstream end and at change in direction points along the network. Two of the existing access chambers will be under the proposed building footprint.

The existing sewer layout on the college site can been seen in the following extract from Rockhampton Regional Council's Geographical Information System (GIS).

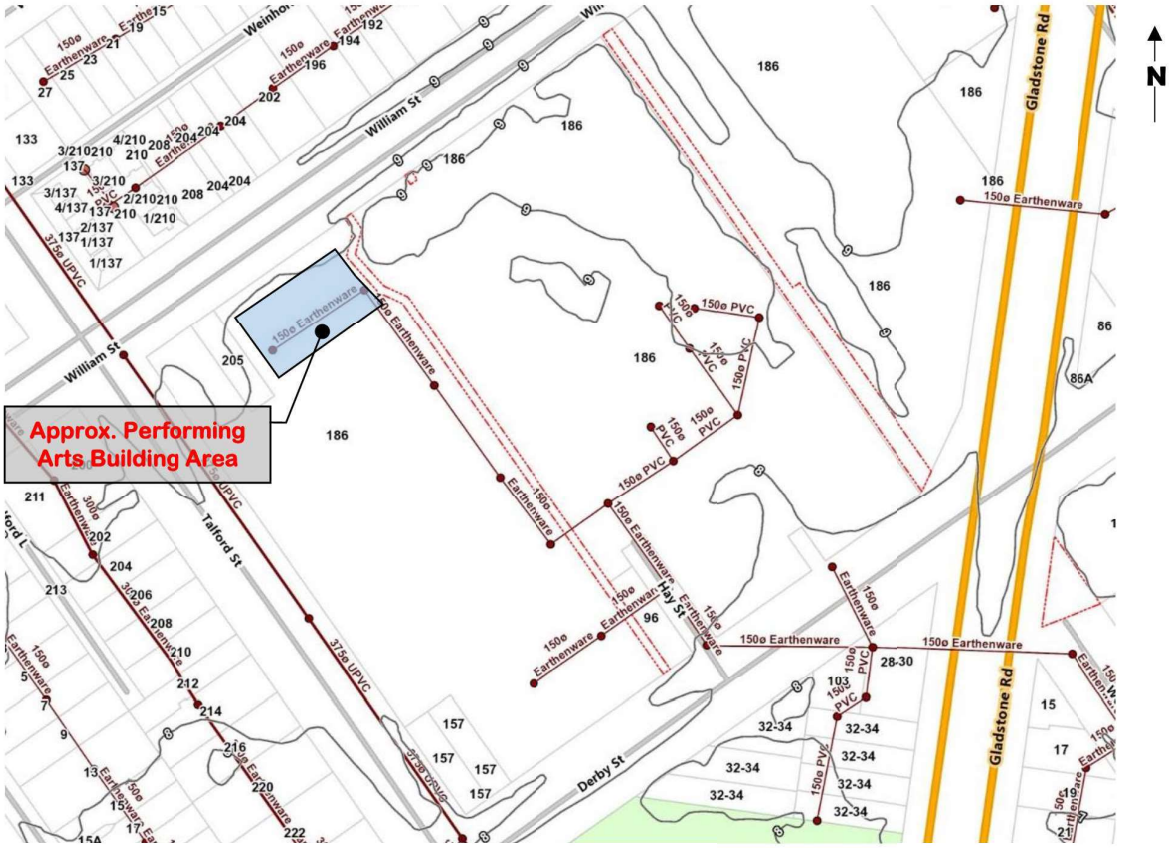


Figure 2 Existing Sewer Infrastructure - shown in red (Source: RRC Mapping)

In order to comply with Rockhampton Regional Council's Building Over/Adjacent to Local Government Sewerage Infrastructure policy, it is proposed to divert the section of sewer main including access chambers that are situated under the proposed building footprint shown in Figure 2 above. All existing live sanitary drainage connections into this section of sewer main would be reinstated into the new diverted section of sewer, including the connection from the neighbouring residential allotment.

The sewer diversion including lampholes and access chambers will be installed to comply with Council's current Building Over/Adjacent to Local Government Sewerage Infrastructure Policy and in line with the current specifications of the Capricorn Municipal Development Guidelines (CMDG) for sewer reticulation design.

The final alignment of the sewer diversion is subject to further detailed design and consultation with Council in subsequent stages of the project. However, the following key features of the sewer diversion are proposed:

- New sewer diversion to be 150mm diameter of PVC, Class SN8 material and installed at a minimum grade of 1 in 100.
- New lamphole installed at the upstream reach of the line.
- New access chamber at the downstream reach of the line.
- New jump up connection into the lamphole.

A preliminary alignment of the intended sewer diversion is provided in the sketch below:

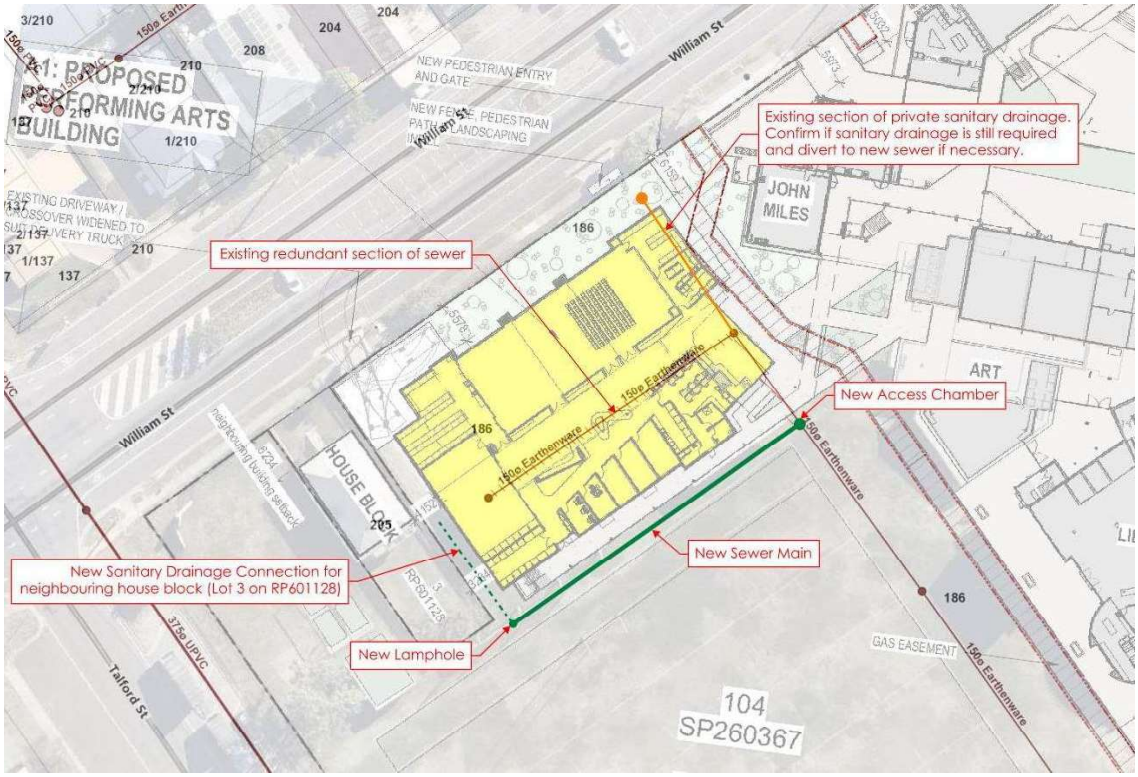


Figure 3 Preliminary Sewer Diversion Proposal Sketch

The proposed performing arts complex will connect to the sewer infrastructure available on the site, where it is expected that the increase in load on the sewer network from the new building will be negligible in relation to the existing load and available capacity. The viability to use any of the existing connections will be checked during further detailed design phases of the project and if needed a new connection could be installed. All internal sanitary drainage will be documented during the detailed design phases of the project and appropriate approvals sought from Rockhampton Regional Council (RRC).

Stormwater

An analysis of the existing stormwater situation has been completed for the area where the proposed performing arts centre is intended on the college site. The stormwater strategy for the proposed building considers the existing situation where a review of the stormwater quantity and quality requirements has been undertaken.

Stormwater Quantity

The performing arts centre is located within a broader catchment on the college site which discharges to the road reserve of Hay Street, which adjoins Derby Street on the southern side on the college. This catchment includes the majority of the grassed sports field as well as part of the main college campus buildings. The extent of this catchment which has been derived by a combination of detailed survey, aerial survey and existing service drawings is shown in the below image:

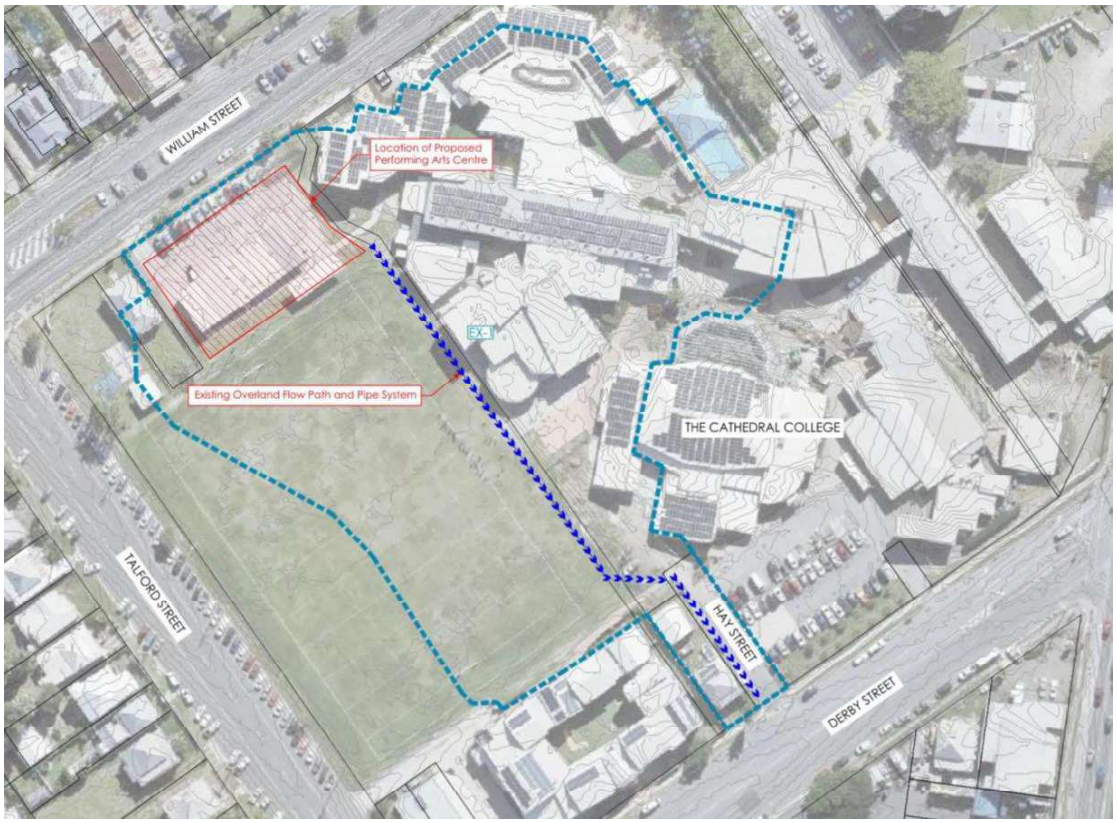


Figure 4 Hay Street Stormwater Catchment Extent

Runoff within the catchment is conveyed to the discharge point generally through a main overland flow path in between the main campus buildings and the eastern edge of the sports field. An underground stormwater pipe network is also in place along this flow path mainly conveying roofwater and surface water from hardstand areas within the catchment. This internal pipe network connects to existing pipe infrastructure within Hay Street which discharges to a main Council pipe system in Derby Street.

It is intended that the proposed performing arts centre will remain a part of the catchment that discharges to Hay Street and ultimately, Derby Street.

With the demolition of an existing on-site concrete car park to make way for the proposed performing arts centre, a comparison of the existing fraction impervious against the proposed fraction impervious scenarios shows that there is minimal change within the college catchment discharging to Hay Street. The calculated fraction impervious is shown in the following table for the existing and proposed cases:

Table 1 Hay Street Catchment Summary – Existing and Proposed Scenarios

Catchment ID	Area (ha)	Fraction Impervious (%)	
		Existing	Proposed
EX-1	2.0	52.3	53.2

Given there is less than a 1% change in the fraction impervious between the existing and proposed scenarios for the catchment discharging to Hay Street, the peak flows are not expected to significantly increase with the installation of the new building. Therefore, no stormwater detention systems are proposed as part of the new performing arts centre project.

Stormwater Quality

As determined in the stormwater quantity review, the performing arts centre is to be situated within an existing catchment that discharges to Hay Street and this discharge location will remain the same in the proposed scenario. The proposal does not significantly alter the impervious area from the existing arrangement for the catchment that discharges to Hay Street. A change in impervious area of less than 1% is proposed as part of the project which is achieved through the demolition of an existing concrete car park on the site to make way for the new building. Therefore, it is proposed that no specific stormwater quality treatment devices are required with the re-development based on the minimal change to the impervious area on the site and considering the triggers of the State Planning Policy.

Stormwater Management

The overall stormwater drainage strategy for the new performing arts centre will ensure runoff is controlled and conveyed to the Hay Street road reserve as per the existing legal point of discharge.

It is expected that roofwater will be captured through a new roofwater piped drainage system and new overland flow paths created around the building to direct runoff to the discharge point.

Overland flow paths and underground pipe systems are in place on site to direct runoff to Hay Street for the given catchment. The suitability and capacity of these systems will be checked during the further detailed design phases of the project to determine if any upgrades are required to these systems to cater for the new works.

Janes and Stewart Structural+Civil CONSULTANTS

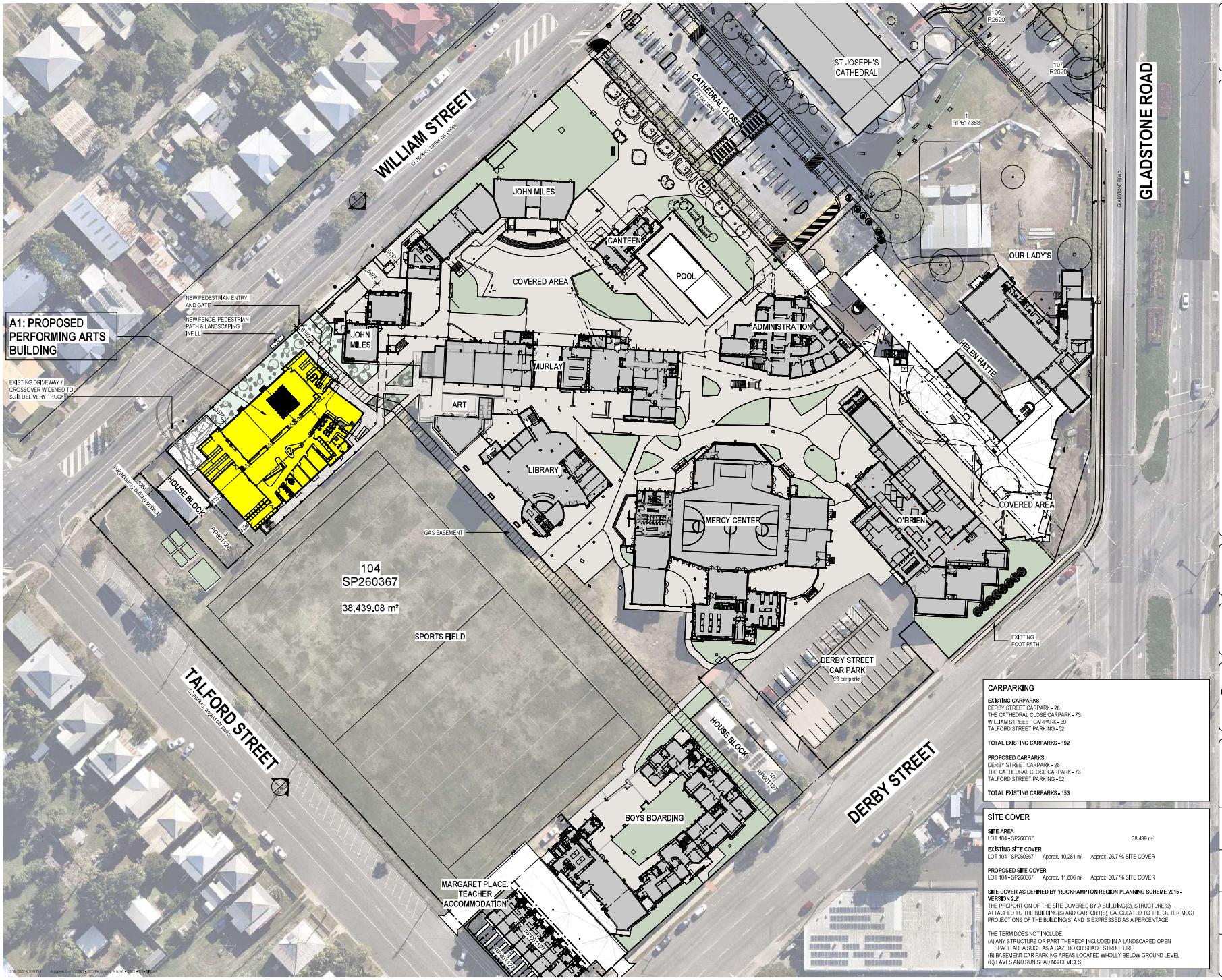
We trust that this provides an overview of the sewer reticulation proposal and intended stormwater drainage strategy for the new performing arts centre at The Cathedral College, Rockhampton. Should you have any queries in relation to this letter, please feel free to contact our office.

Yours sincerely

Matthew Dennis
Senior Civil Engineer (RPEQ 24862)
for and on behalf of Janes and Stewart Structures Pty Ltd

ATTACHMENTS

1. Proposed – Overall Site Plan – Ground Level MCU-02 (prepared by Tony Madden Architects)



GENERAL NOTES

- CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK.
- ALL WORKS TO BE CARRIED OUT TO LOCAL AUTHORITY REQUIREMENTS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SPECIFICATION AND ASSOCIATED NOTES.
- DO NOT SCALE THIS DRAWING. IF IN DOUBT, ASK.

SITE AREA

LOT 104 - SP260367 — 38,439 m²

GROSS FLOOR AREA

LOT 104 SP260367

GROUND FLOOR - EXISTING GFA	7,944 m²
FIRST FLOOR - EXISTING GFA	4,455 m²
TOTAL EXISTING GFA	**12,399 m²**
GROUND FLOOR - PROPOSED GFA	9,277 m²
FIRST FLOOR - PROPOSED GFA	4,963 m²
TOTAL PROPOSED GFA	**14,240 m²**

IMPERVIOUS GROUND AREA

(NOTE: AREAS EXCLUDE BUILDING GFA)

EXISTING IGA - **LOT 104 SP260367**	**14,230 m²**
PROPOSED IGA - **LOT 104 SP260367**	**13,127 m²**

LANDSCAPE AREA (PERVIOUS)

EXISTING LANDSCAPE AREA - **LOT 104 SP260367**	**16,265 m²**
PROPOSED LANDSCAPE AREA - **LOT 104 SP260367**	**16,036 m²**

scale @A1: 1 : 500 — scale @A3: 1:1000

0 25m 1:500

PRELIMINARY

REV.	DESCRIPTION	ISSUED BY	DATE
P1	PRELIMINARY ISSUE		3/10/2022

CARPARKING

EXISTING CARPARKS
DERBY STREET CARPARK - 28
THE CATHEDRAL CLOSE CARPARK - 73
WILLIAM STREET CARPARK - 39
TALFORD STREET PARKING - 52

TOTAL EXISTING CARPARKS - 192

PROPOSED CARPARKS
DERBY STREET CARPARK - 28
THE CATHEDRAL CLOSE CARPARK - 73
TALFORD STREET PARKING - 52

TOTAL EXISTING CARPARKS - 153

SITE COVER

SITE AREA
LOT 104 - SP260367 — 38,439 m²

EXISTING SITE COVER
LOT 104 - SP260367 — Approx. 10,281 m² — Approx. 26.7 % SITE COVER

PROPOSED SITE COVER
LOT 104 - SP260367 — Approx. 11,806 m² — Approx. 30.7 % SITE COVER

SITE COVER AS DEFINED BY 'ROCKHAMPTON REGION PLANNING SCHEME 2015 - VERSION 2.2'
THE PROPORTION OF THE SITE COVERED BY A BUILDING(S), STRUCTURE(S) ATTACHED TO THE BUILDING(S) AND CARPORT(S), CALCULATED TO THE OUTER MOST PROJECTIONS OF THE BUILDING(S) AND IS EXPRESSED AS A PERCENTAGE.

THE TERM DOES NOT INCLUDE:
(A) ANY STRUCTURE OR PART THEREOF INCLUDED IN A LANDSCAPED OPEN SPACE AREA SUCH AS A GAZEBO OR SHADE STRUCTURE
(B) BASEMENT CAR PARKING AREAS LOCATED WHOLLY BELOW GROUND LEVEL
(C) EAVES AND SUN SHADING DEVICES

TONY MADDEN ARCHITECTS
(07) 4927 9700
www.tmarchitects.com.au

client:
ROMAN CATHOLIC TRUST CORP. FOR THE DIOCESE OF ROCKHAMPTON T/A CATHOLIC EDUCATION DIOCESE OF ROCKHAMPTON

location:
THE CATHEDRAL COLLEGE ROCKHAMPTON

project:
PERFORMING ARTS CENTRE

drawing title:
PROPOSED - OVERALL SITE PLAN - GROUND LEVEL

job no:	drawing no:	rev:
2263	MCU-02	P1

Project number 23001
Date 27 February 2023

Janes and Stewart Structures Pty Ltd
ABN: 30 620 233 025
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07 4922 1948
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Letter – 23001LETTM02

Development Planning + Approvals
PO Box 4499
Mackay, QLD 4740

Attention: Justin Peel
justinpeel@bigpond.com

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
These plans are approved subject to the current conditions of approval associated with
Development Permit No.: D/6-2023
Dated: 28 April 2023

Dear Justin,

Technical Letter – Flood Hazard Overlay Code Assessment
Performing Arts Building, The Cathedral College
189 William Street, Rockhampton

Janes and Stewart Structures Pty Ltd refers to the information request response received from Rockhampton Regional Council dated 9 February 2023 relating to the development application for a new performing arts building at The Cathedral College, Rockhampton.

Item 1 of the information request from Council states the following:

> *Council's latest flood modelling shows the proposed building area as being subject to minor inundation during a local storm event. Please provide an assessment against the Flood Hazard Overlay Code in the Rockhampton Region Planning Scheme. The assessment should address any loss of flood storage as a result of the proposed building and associated earthworks, as well as any adverse off-site impacts related to the displacement of the flood waters.*

The intent of this letter is to provide further information to address the query from Council noted above on both riverine flooding and localised stormwater inundation on the site.

Riverine Flooding

Based on Rockhampton Regional Council flood hazard overlay mapping for riverine Fitzroy River Flooding, the Cathedral College site is only impacted to a low level, with a small section of the site subjected to the flood hazard overlay on the Derby Street side of the site. The proposed performing arts building is intended to be located along the William Street frontage of the site and will therefore be located well outside of the flood hazard overlay extent mapped by Council for the defined flood event (1% AEP), for a riverine Fitzroy River flood. The development will not impact on any flood storage capacity or alter any flood water flow paths within the Council defined flood hazard overlay. An extract of Council's flood hazard overlay mapping from the current version of the RRC planning scheme is provided below for reference:

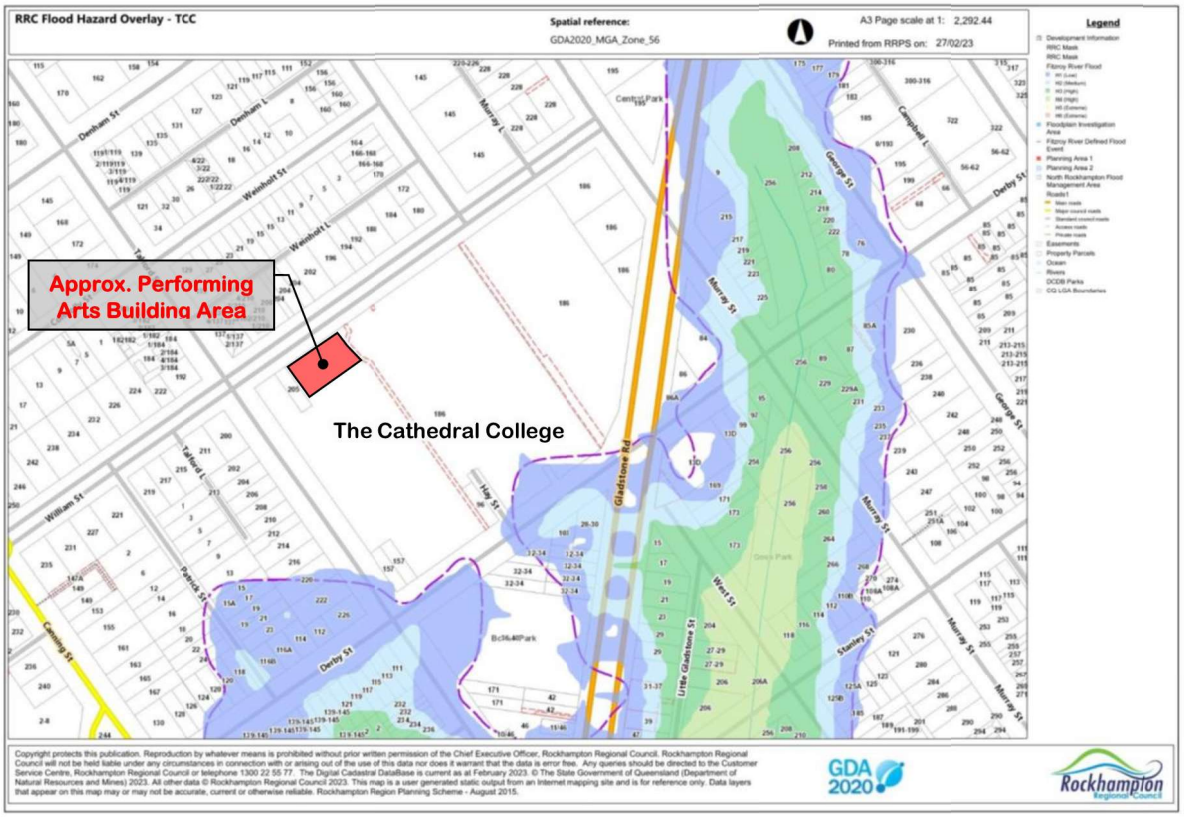

Figure 1 Extract of Flood Hazard Overlay from Riverine Fitzroy River Flooding (Source: RRC Planning Scheme)

Local Catchment Flooding

The flood report provided by Council as part of the information request letter identifies that some water surface ponding occurs on The Cathedral College site in a 1% AEP local catchment event. There is currently existing stormwater infrastructure on the site within the area of surface ponding where runoff is captured and conveyed through turfed drainage swales and combined with field inlets connected to an underground pipe system. The surface water extent shown on the Council modelling suggests that water temporarily sits on the surface above the field inlets in a 1% AEP before being discharged via the pipe and swale system.

As part of the detailed design for the performing arts building, the stormwater drainage for the new building and the area in the vicinity of the new building works will be reviewed to ensure no worsening to the stormwater situation on the site. Any localised upgrades to improve and manage drainage on the site will be considered, including analysis of stormwater overland flow paths and internal stormwater pit and pipe systems. The performing arts centre is located on the fringe of the local catchment flood inundation extent provided by Council and therefore we expect to have negligible impact to the local catchment flood situation to neighbouring properties and road reserves. The building floor level will be assigned considering the surrounding stormwater situation to ensure appropriate freeboard levels are obtained in line with current standard and guidelines.

Janes and Stewart Structural+Civil CONSULTANTS

We trust that this provides an assessment against the RRC flood hazard overlay code, and addresses Council's query stated in item 1 of the development application information request for the new performing arts centre at The Cathedral College, Rockhampton. Should you have any queries in relation to this letter, please feel free to contact our office.

Yours sincerely

Matthew Dennis
Senior Civil Engineer (RPEQ 24862)
for and on behalf of Janes and Stewart Structures Pty Ltd

ATTACHMENTS
1. RRC Flood Report

Flood Report for 186 West Street Allenstown QLD 4700

Printed from GeoCortex on 06/02/2023

Owners: Roman Catholic Trust Corporation

Ratepayer Address: PO BOX 8207 ALLENSTOWN QLD 4700

Parcel ID: SP260367/104

Land use:

Riverine Catchment: Fitzroy River Flood Study

Creek Catchment: South Rockhampton Local Catchment Study 2018

Mitigation Area: N/A

Horizontal Datum: MGA 56, GDA 2020

Elevation / WSL: mAHD

Velocity: m/sec

Comments

N/A

Riverine

PMF WSL Min:	11.87	AEP 2% WSL Min:	N/A	AEP 0.2% WSL Min:	8.91	AEP 0.5% WSL Min:	8.53
PMF WSL Max:	11.90	AEP 2% WSL Max:	N/A	AEP 0.2% WSL Max:	8.94	AEP 0.5% WSL Max:	8.53
PMF Velocity Min:	0.04	AEP 2% Velocity Min:	N/A	AEP 0.2% Velocity Min:	0.00	AEP 0.5% Velocity Min:	0.00
PMF Velocity Max:	0.33	AEP 2% Velocity Max:	N/A	AEP 0.2% Velocity Max:	0.34	AEP 0.5% Velocity Max:	0.33
AEP 0.05% WSL Min:	9.49	AEP 5% WSL Min:	N/A	AEP 10% WSL Min:	*N/A*	AEP 1% WSL Min:	8.19
AEP 0.05% WSL Max:	9.49	AEP 5% WSL Max:	N/A	AEP 10% WSL Max:	*N/A*	AEP 1% WSL Max:	8.19
AEP 0.05% Velocity Min:	0.00	AEP 5% Velocity Min:	N/A	AEP 10% Velocity Min:	*N/A*	AEP 1% Velocity Min:	0.00
AEP 0.05% Velocity Max:	0.34	AEP 5% Velocity Max:	N/A	AEP 10% Velocity Max:	*N/A*	AEP 1% Velocity Max:	0.33
				AEP 18% WSL Min:	*N/A*	AEP 39% WSL Min:	*N/A*
				AEP 18% WSL Max:	*N/A*	AEP 39% WSL Max:	*N/A*
				AEP 18% Velocity Max:	*N/A*	AEP 39% Velocity Min:	*N/A*
				AEP 18% Velocity Max:	*N/A*	AEP 39% Velocity Max:	*N/A*

Creek \ Local Catchment

PMF WSL Min:	*8.99*	AEP 5% WSL Min:	*7.89*	AEP 0.05% WSL Min:	*8.21*	AEP 10% WSL Min:	*7.86*
PMF WSL Max:	*9.81*	AEP 5% WSL Max:	*9.56*	AEP 0.05% WSL Max:	*9.76*	AEP 10% WSL Max:	*9.55*
PMF Velocity Min:	*0.03*	AEP 5% Velocity Min:	*0.00*	AEP 0.05% Velocity Min:	*0.00*	AEP 10% Velocity Min:	*0.00*
PMF Velocity Max:	*1.74*	AEP 5% Velocity Max:	*1.61*	AEP 0.05% Velocity Max:	*1.60*	AEP 10% Velocity Max:	*1.66*
AEP 0.2% WSL Min:	*8.10*	AEP 18% WSL Min:	*7.81*	AEP 0.5% WSL Min:	*8.04*	AEP 39% WSL Min:	*7.88*
AEP 0.2% WSL Max:	*9.75*	AEP 18% WSL Max:	*9.38*	AEP 0.5% WSL Max:	*9.73*	AEP 39% WSL Max:	*9.23*
AEP 0.2% Velocity Min:	*0.01*	AEP 18% Velocity Min:	*0.00*	AEP 0.5% Velocity Min:	*0.01*	AEP 39% Velocity Min:	*0.00*
AEP 0.2% Velocity Max:	*1.61*	AEP 18% Velocity Max:	*1.61*	AEP 0.5% Velocity Max:	*1.62*	AEP 39% Velocity Max:	*0.68*
AEP 1% WSL Min:	*8.02*	AEP 63% WSL Min:	*8.00*				
AEP 1% WSL Max:	*9.73*	AEP 63% WSL Max:	*9.01*				
AEP 1% Velocity Min:	*0.00*	AEP 63% Velocity Min:	*0.00*				
AEP 1% Velocity Max:	*1.63*	AEP 63% Velocity Max:	*0.31*				

Property Elevation

Ground Elevation (Min):	7.48
Ground Elevation (Max):	10.29

AEP 2% WSL Min:	*7.97*
AEP 2% WSL Max:	*9.72*
AEP 2% Velocity Min:	*0.00*
AEP 2% Velocity Max:	*1.44*