

**APPENDIX E - ENGINEERING INFRASTRUCTURE REPORT**


*Kehoe Myers Consulting Engineers*

**ENGINEERING INFRASTRUCTURE REPORT**

45 HIGHFIELDS DRIVE SUBDIVISION, HIGHFIELDS, QLD

LOUISE MCCORMICK & ROMIG TITUS

Document Control Page					
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Author/s:	Tyana Bachmann					
Approver:	Grant Pendlebury	RPEQ: 05356	Signature:		Date:	29/05/2026

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## TABLE OF CONTENTS

<b>1.</b>	<b>INTRODUCTION AND EXECUTIVE SUMMARY .....</b>	<b>4</b>
1.1.	SITE LOCATION AND DESCRIPTION .....	5
1.2.	EXISTING SITE CONDITIONS .....	6
1.3.	PROPOSED DEVELOPMENT LAYOUT .....	7
<b>2.</b>	<b>SITWORKS AND TRANSPORT.....</b>	<b>8</b>
2.1.	EARTHWORKS .....	8
2.2.	ACCESS.....	9
<b>3.</b>	<b>STORMWATER MANAGEMENT PLAN .....</b>	<b>10</b>
3.1.	STORMWATER QUANTITY MANAGEMENT .....	10
3.2.	STORMWATER QUALITY MANAGEMENT .....	10
<b>4.</b>	<b>WASTEWATER.....</b>	<b>11</b>
4.1.	EXISTING COUNCIL SEWER INFRASTRUCTURE .....	11
<b>5.</b>	<b>WATER SUPPLY.....</b>	<b>12</b>
5.1.	EXISTING COUNCIL WATER INFRASTRUCTURE.....	12
5.2.	INTERNAL WATER DEMAND.....	13
<b>6.</b>	<b>ELECTRICAL, STREET LIGHTING AND COMMUNICATIONS .....</b>	<b>14</b>
6.1.	EXISTING INFRASTRUCTURE.....	14
6.2.	PROPOSED DEVELOPMENT WORKS .....	14
<b>7.</b>	<b>CONCLUSION .....</b>	<b>15</b>
<b>8.</b>	<b>REFERENCES.....</b>	<b>16</b>
<b>9.</b>	<b>APPENDICES.....</b>	<b>17</b>

## LIST OF FIGURES

<b>FIGURE 1</b>	<b>SITE LOCALITY MAP (QUEENSLAND GLOBE 2026).....</b>	<b>5</b>
<b>FIGURE 2</b>	<b>SITE AERIAL IMAGE (QUEENSLAND GLOBE 2026).....</b>	<b>6</b>
<b>FIGURE 3</b>	<b>PROPOSED ALLOTMENT LAYOUT (KEHOE MYERS DRAWING: C2526370-PR01-A) .....</b>	<b>7</b>
<b>FIGURE 4</b>	<b>PRELIMINARY EARTHWORKS LAYOUT (KEHOE MYERS DRAWING: C2526370-PR03-A) .....</b>	<b>8</b>
<b>FIGURE 5</b>	<b>PRELIMINARY ACCESS LAYOUT (KEHOE MYERS DRAWING: C2526370-PR04-A) .....</b>	<b>9</b>
<b>FIGURE 6</b>	<b>EXISTING WATER MAIN INFRASTRUCTURE &amp; PROPOSED CONNECTIONS (TR MAPS 2026) .....</b>	<b>12</b>

## LIST OF TABLES

<b>TABLE 1</b>	<b>DEVELOPMENT WATER LOADINGS .....</b>	<b>13</b>
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## LIST OF APPENDICES

APPENDIX A.	PROPOSED ALLOTMENT LAYOUT (KEHOE MYERS DRAWING: C2526370-PR01-A)
APPENDIX B.	PRELIMINARY SERVICES LAYOUT (KEHOE MYERS DRAWING: C2526370-PR02 A)
APPENDIX C.	PRELIMINARY EARTHWORKS LAYOUT (KEHOE MYERS DRAWING: C2526370-PR03-A)
APPENDIX D.	PRELIMINARY ACCESS LAYOUT (KEHOE MYERS DRAWING: C2526370-PR04-A)

## 1. INTRODUCTION AND EXECUTIVE SUMMARY

Kehoe Myers Consulting Engineers has been engaged to prepare an Engineering Infrastructure Report as part of the planning documentation in support of the Development Application with the Toowoomba Regional Council (TRC) for the Reconfiguration of a Lot (RAL, 1 into 5) Development Application (DA) at 45 Highfields Road, Highfields.

The proposed development consists of a 1 into 5 allotment subdivision on an existing residential allotment at 45 Highfields Road, Highfields. Works will include earthworks, stormwater, water reticulation, power and telecommunications.

This report seeks to address the onsite engineering issues associated with the proposed development works, including:

- Existing services within the subject area;
- Siteworks and proposed earthworks;
- Site access and transport impacts;
- Stormwater quantity and quality management;
- Sewerage reticulation and requirements;
- Water reticulation and requirements;
- Electrical and telecommunication supply.

The report concludes that the development will be able to be connected to the local transport, stormwater, water reticulation and power/telecommunication networks with minimal impact on all existing services.

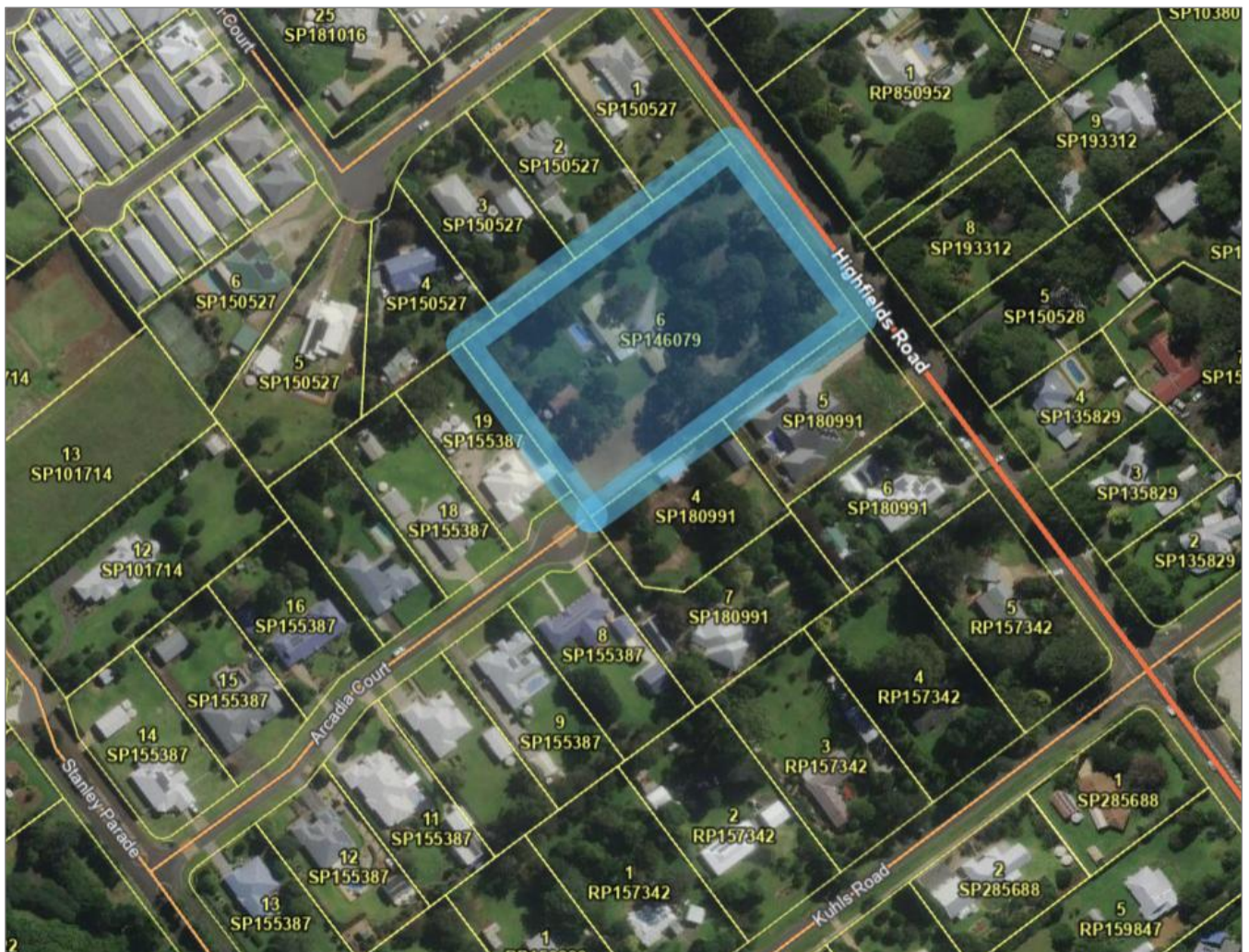
From the preliminary analysis of the site, it is seen that the development will require minor allotment earthworks to form both the proposed access and the required open stormwater channel. These earthworks are to be generally in accordance with expected development works and will be detailed as part of a future Operational Works application.

Stormwater quantity and quality have been addressed in the accompanying Stormwater Management Plan prepared by Kehoe Myers.

Finally, from the overall assessment of the Water, Electrical and Telecommunication supply, the development can be readily serviced by the existing adjacent infrastructure. Further details of these proposed connections are provided below and will be detailed in a future Operational Works application.

**1.1. SITE LOCATION AND DESCRIPTION**

The proposed development is located on a 1.173-hectare site located at 45 Highfields Road, Highfields. The real property description is Lot 6 on SP146079. A Locality Plan highlighting the proposed development site is shown below in **FIGURE 1**.



**FIGURE 1** SITE LOCALITY MAP (QUEENSLAND GLOBE 2026)

1.2. EXISTING SITE CONDITIONS

Based on the available LiDAR elevation model, the site comprises an open, gently graded allotment. A single-storey dwelling is located toward the rear of the property, with associated sheds and a pool. The balance of the site is predominantly open grassed area with sparse vegetation. Existing driveway access is provided from Highfields Road however, the site also has road frontage to Acadia Court in the southwestern boundary corner.

Topographically, the site generally falls from the western corner toward the eastern corner of the lot. The average gradient across the allotment is approximately 2%; therefore, only minor earthworks are anticipated to achieve the proposed final lot levels with all allotments clear of the open channel on the eastern boundary.

A current aerial image of the proposed development site is shown below in **FIGURE 2**.

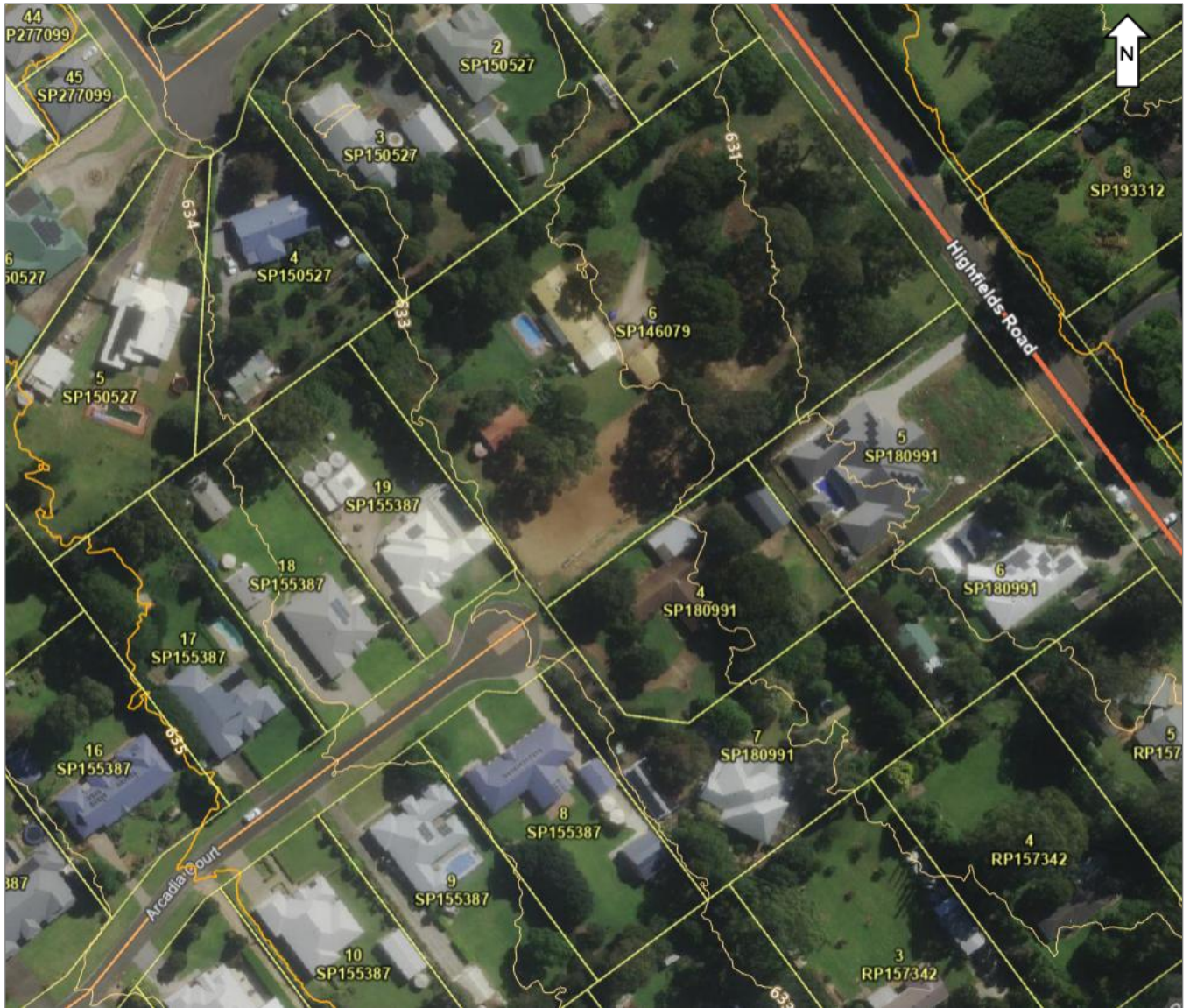
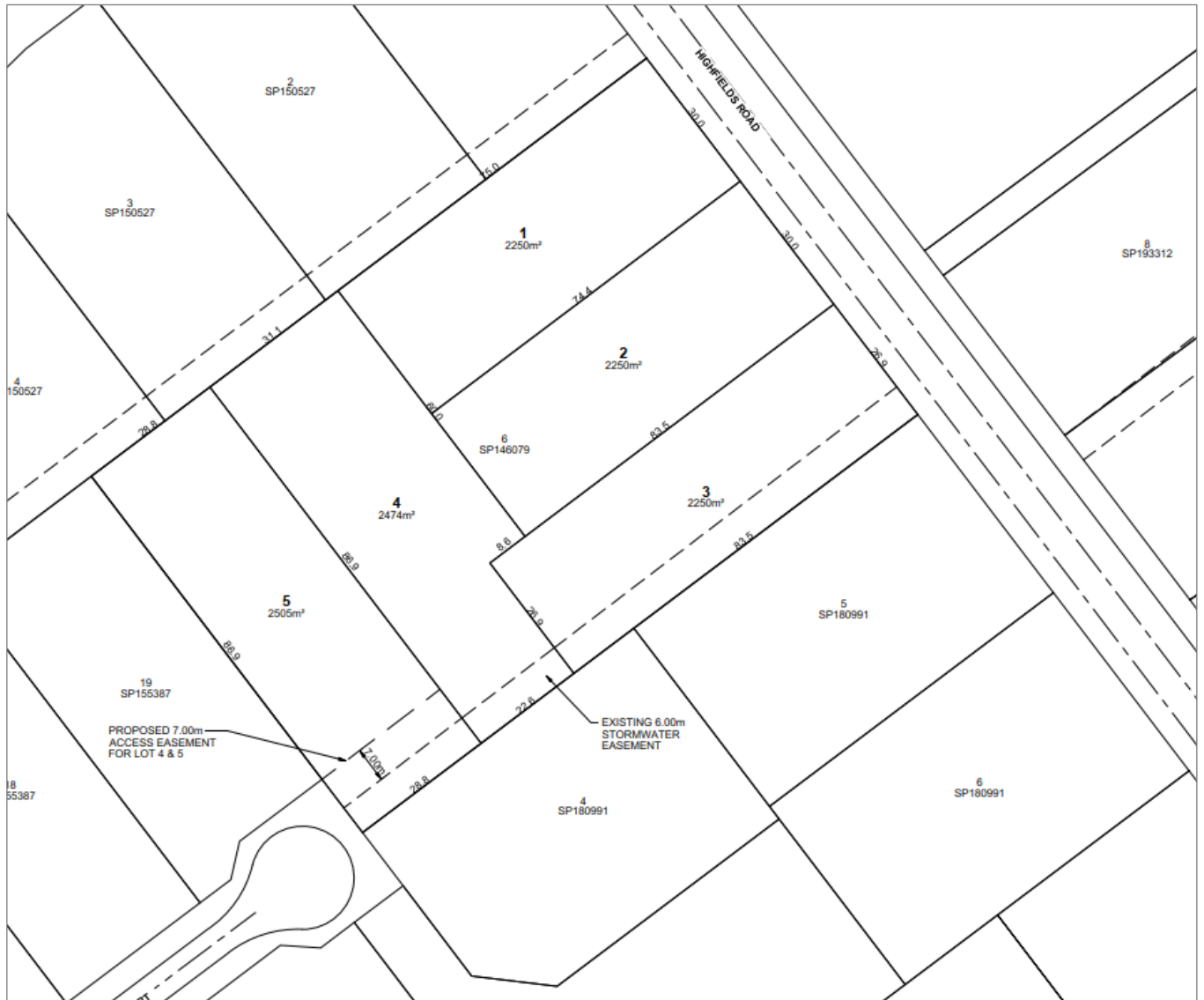


FIGURE 2 SITE AERIAL IMAGE (QUEENSLAND GLOBE 2026)

### 1.3. PROPOSED DEVELOPMENT LAYOUT

The proposed development layout has been prepared in consultation with the Client and Planner. Based on the proposed site layout, a conceptual engineering design was undertaken to provide access and services for the proposed allotments. Lot 1 will retain the existing access from Highfields Road, with new access for Lots 2 and 3 proposed along Highfields Road. Proposed Lots 4 and 5 will have a shared access from Arcadia Court, in favour of Lot 5.

The proposed final 5-lot layout for the subdivision is shown in **FIGURE 3** below and attached in **APPENDIX A**. Also, the proposed access locations are show in **APPENDIX B**.



**FIGURE 3** PROPOSED ALLOTMENT LAYOUT (KEHOE MYERS DRAWING: C2526370-PR01-A)

## 2. SITEWORKS AND TRANSPORT

### 2.1. EARTHWORKS

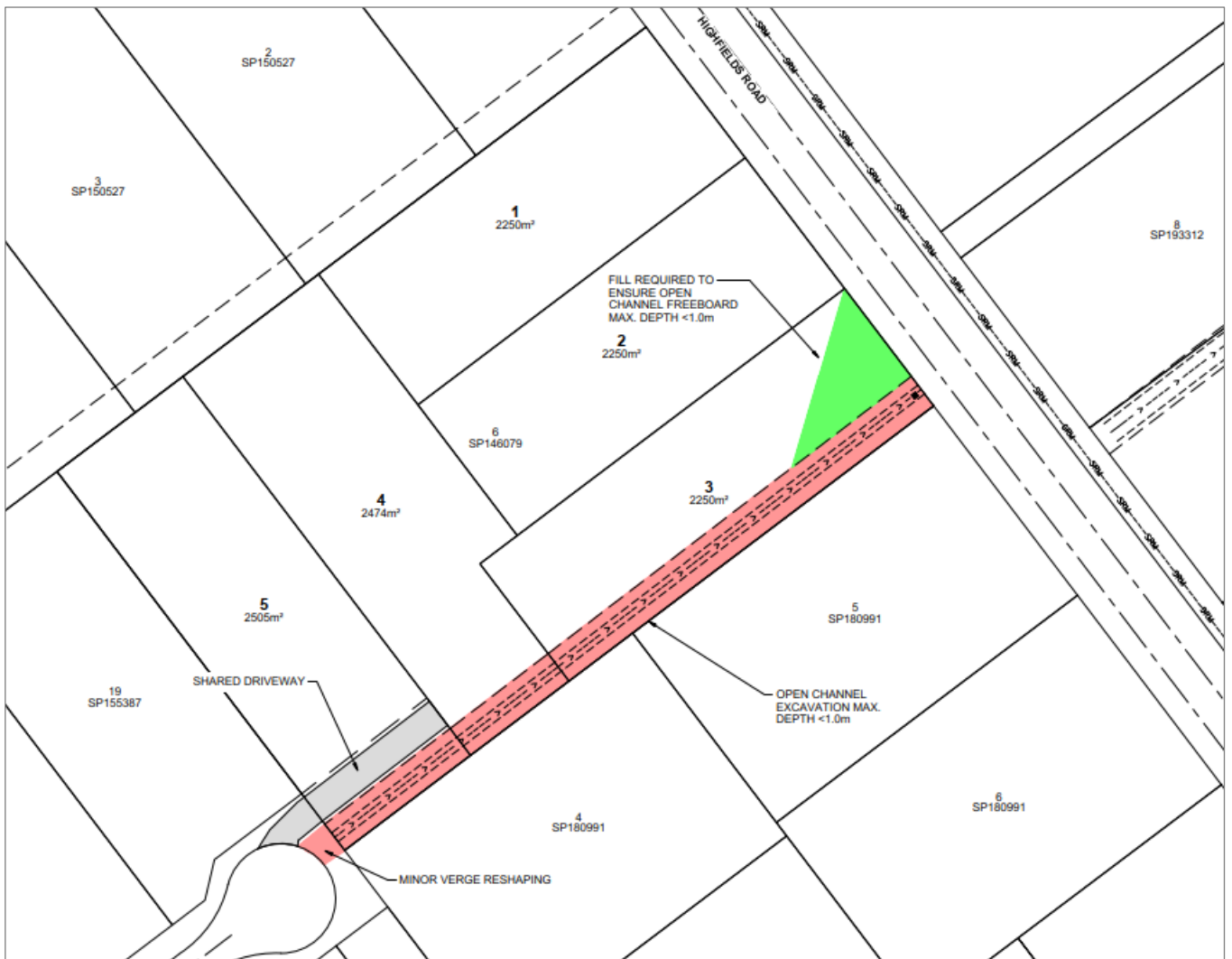
From the preliminary analysis the development will require minor earthworks to form the proposed access, required services and the proposed stormwater open channel.

The earthworks for the planned accesses and required infrastructure will follow the proposed allotment layout attached in **APPENDIX A** and the proposed services plan is attached in **APPENDIX B**. These earthworks are seen to be generally in accordance with expected development works and will be detailed as part of a future Operational Works application.

From a preliminary design of the proposed access, allotment pads and new open channel, a preliminary earthworks layout has been prepared. This preliminary layout is presented in **APPENDIX C** and below in **FIGURE 4**.

The construction of the stormwater open channel will require bulk earthworks to excavate and shape the proposed channel in accordance with the preliminary design. The proposed grass-lined channel has been designed in accordance with QUDM, with hydraulic capacity and flow conditions assessed using Manning’s equation. The channel will be formed with a 2.0 m bed width and side batters of 1V:4H on both sides and a depth of 500mm to provide a stable, maintainable cross section.

During construction, the channel invert and batters will be trimmed to the design levels and grades, with the disturbed surfaces topsoiled and grassed following earthworks completion to provide erosion protection and channel stability. Subject to material suitability, excavated material generated from channel cutting will be reused on site as fill within proposed Lot 3. This fill will be placed and compacted to achieve finished surface levels such that the lot is set a minimum of 300mm above the top of the channel bank, thereby reducing potential flood risk to the proposed allotment.

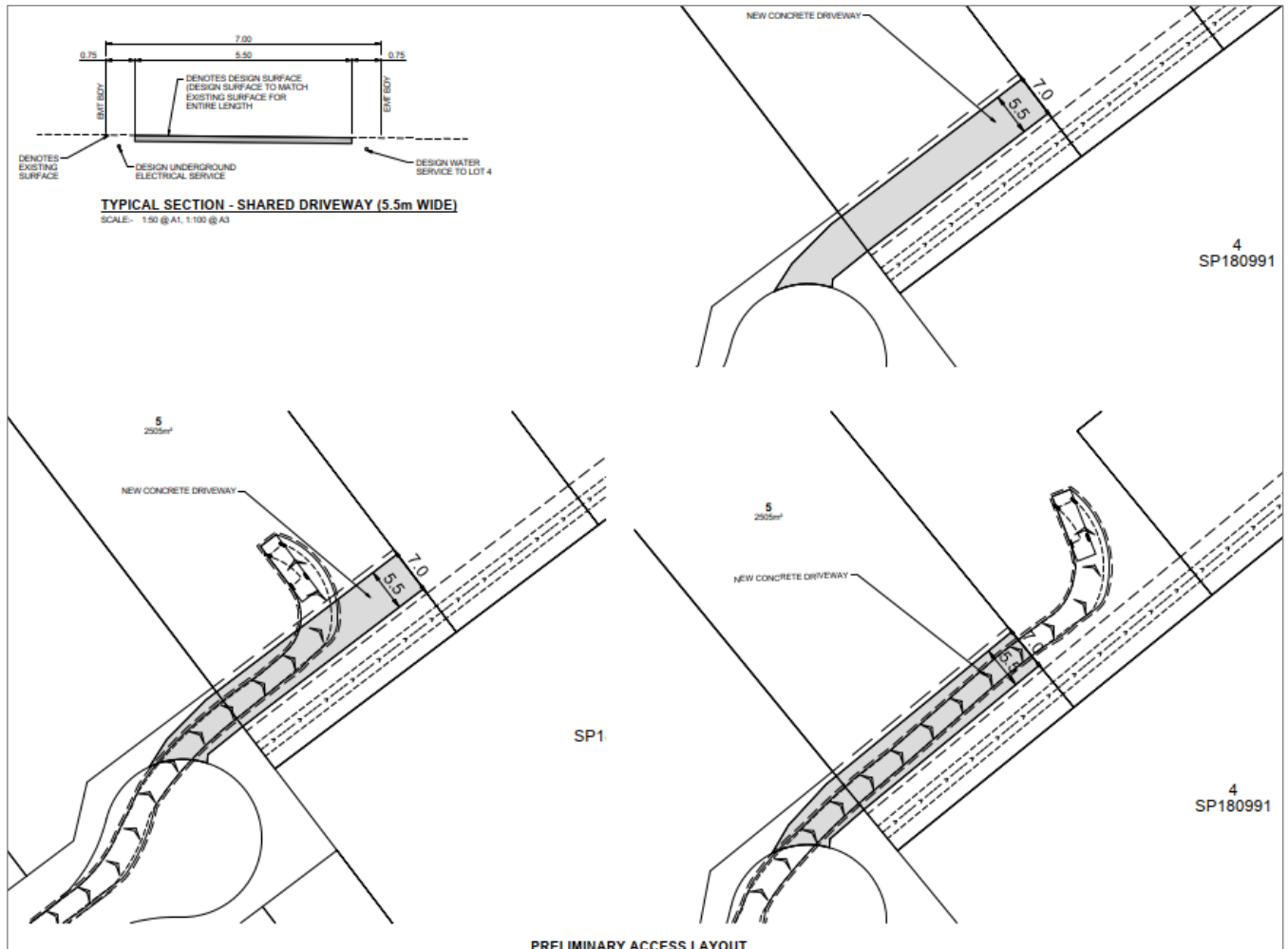


**FIGURE 4** PRELIMINARY EARTHWORKS LAYOUT (KEHOE MYERS DRAWING: C2526370-PR03-A)

**2.2. ACCESS**

From the preliminary analysis the development will require minor earthworks to form the proposed access, required services and the proposed stormwater open channel.

Access for Lots 4 and 5 are to be constructed from Arcadia Court in a shared access easement in Lot 5 in favour of Lot 4. Refer proposed access drawing layout in **APPENDIX D** and below in **FIGURE 5**. Lots 1 to 3 will have access from Highfields Road with standard driveway crossovers, constructed during each lot's building approvals.



**FIGURE 5 PRELIMINARY ACCESS LAYOUT (KEHOE MYERS DRAWING: C2526370-PR04-A)**

### **3. STORMWATER MANAGEMENT PLAN**

#### **3.1. STORMWATER QUANTITY MANAGEMENT**

Stormwater Quantity Management for the proposed development has been addressed within the accompanying Stormwater Management Plan prepared by Kehoe Myers.

#### **3.2. STORMWATER QUALITY MANAGEMENT**

Stormwater Quality Management for the proposed development has been addressed within the accompanying Stormwater Management Plan prepared by Kehoe Myers.

## 4. WASTEWATER

### 4.1. EXISTING COUNCIL SEWER INFRASTRUCTURE

Council's reticulated sewer network is not available to the subject site. Accordingly, an on-site effluent management system will be provided to service the proposed allotments.

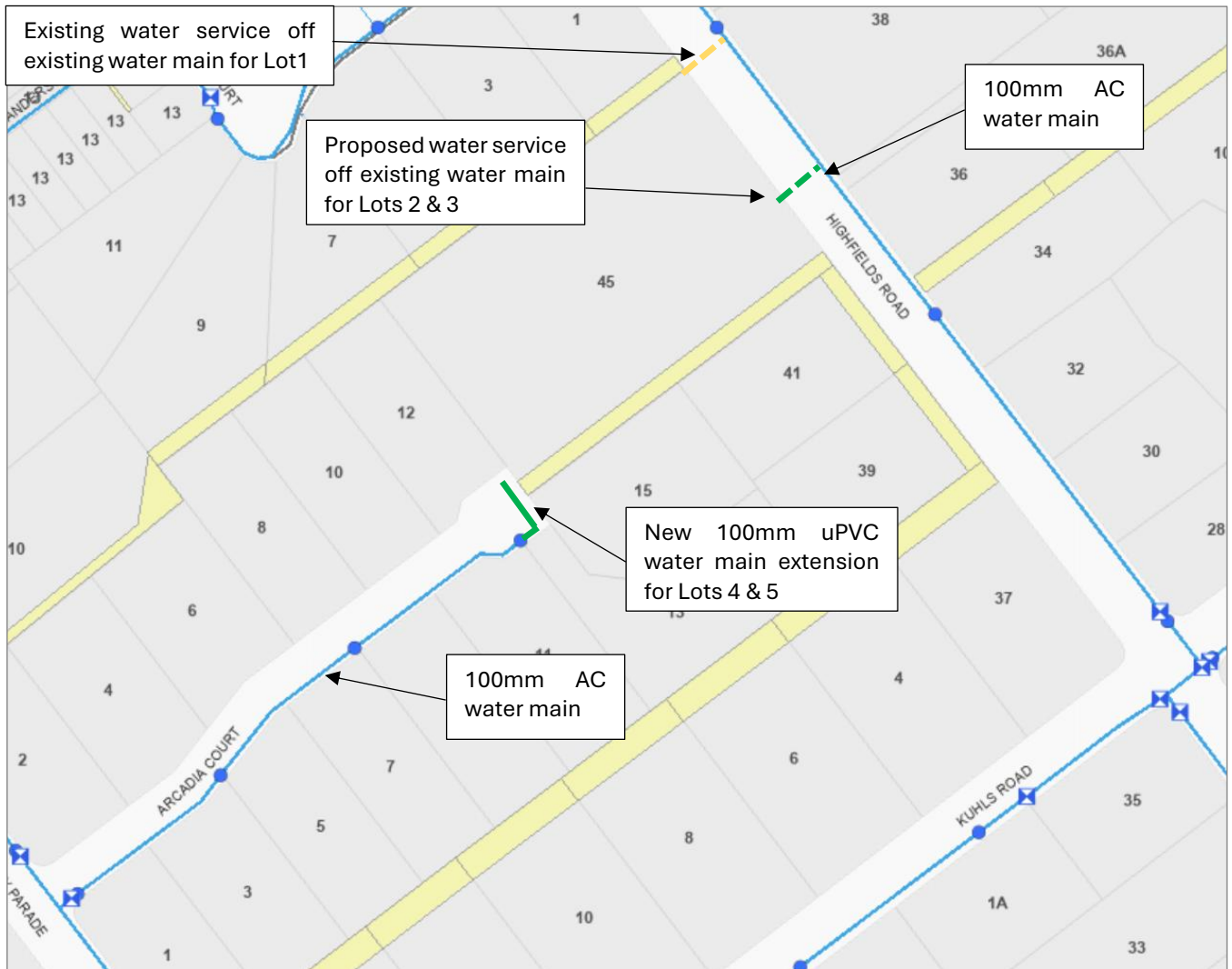
The site is generally clear and gently graded, and each proposed allotment exceeds 2,000m<sup>2</sup>, which is typically suitable for on-site effluent disposal in this location. On this basis, it is considered that compliant on-site effluent disposal systems can be accommodated on each lot without atypical earthworks or specialised treatment measures. The available area and mild grades provide flexibility for system layout and enable land application areas to be located to suit localised soil conditions, offsets to structures, subject to future plumbing and drainage approvals.

## 5. WATER SUPPLY

### 5.1. EXISTING COUNCIL WATER INFRASTRUCTURE

Currently, there is no Council water infrastructure within the proposed development site. It is proposed that Lot 1 will retain the existing connection with Lots 2 and 3 connecting to the existing 100mm AC water main in Highfields Road. An extension of the existing 100mm uPVC water main terminating in Acadia Court is proposed, as indicated on the preliminary services layout in **APPENDIX B**, to connect and service the Lots 4 and 5.

It is assumed they are on the current standard alignment with the required cover. **FIGURE 6** below indicates the existing water network adjacent to the site.



**FIGURE 6** EXISTING WATER MAIN INFRASTRUCTURE & PROPOSED CONNECTIONS (TR MAPS 2026)

## 5.2. INTERNAL WATER DEMAND

From the proposed allotment layout, detailed above in **Section 1.3**, the proposed development will provide 4 additional allotments of minimum size 2,250m<sup>2</sup> or 4 additional Equivalent Tenements (ETs). By adopting the Toowoomba Regional Council's water loadings as per SC6.3.2.7 TRC Addendum for Water Code of Australia, WSA 03 – 2011 V3.1 an estimate of development water loading can be made. These adopted parameters include:

- 2.8 equivalent persons per tenement;
- 200 litres per person, per day;
- MDMM = 1.5 AD;
- PD = 2.25 AD;
- PH = 4.5 AD;
- NRW = 34.5 L/EP/d;

Adopting these parameters, the full water loading can be calculated for the proposed development. These calculated development loadings are presented in **TABLE 1** below.

**TABLE 1 DEVELOPMENT WATER LOADINGS**

EQUIVALENT TENEMENTS (ET)	4	
EQUIVALENT PERSONS (EP) PER TENEMENT	2.80	
TOTAL EQUIVALENT PERSONS (EP)	11.2	
LOADING RATE (L/EP/DAY)	200.00	
NON-REVENUE WATER (L/DAY)	386.40	
DEMAND	(L/DAY)	(L/SEC)
AVERAGE DAY DEMAND (AD)	2,240.0	0.026
MEAN DAY MAXIMUM MONTH (MDMM)	3,360.0	0.039
PEAK DAY DEMAND (PD)	5,040.0	0.058
PEAK HOUR DEMAND (PH)	(L/HR)	(L/SEC)
	420	0.117

As the above development loadings are typical of a residential subdivision and connection to this area was provisioned in the previous stage, it has been assumed that no further analysis of the adjacent network is required.

## 6. ELECTRICAL, STREET LIGHTING AND COMMUNICATIONS

### 6.1. EXISTING INFRASTRUCTURE

From a 'Before You Dig Australia' search of the proposed development site, it was seen that a number of existing electrical and telecommunication services run in the streets adjacent to the subject allotment.

### 6.2. PROPOSED DEVELOPMENT WORKS

Reticulated underground electricity services will be provided to each allotment in accordance with the requirements of Ergon Energy. Connections will be made to the existing Ergon cables located within the surrounding streets.

Street Lighting will be provided in accordance with the requirements of the TRC Planning Scheme, AS/NZS 1158 Lighting for Roads and Public Spaces and AS4282 Control of the obtrusive effects of outdoor lighting.

Reticulated telecommunication services will be provided to each allotment in accordance with the requirements of NBN Co/Telstra. Connections will be made to the existing telecommunication services that exist within the adjoining streets.

A plan of the proposed services to each allotment and their connections to existing assets is attached in **APPENDIX B**. All further details regarding electrical, street lighting & telecommunications will be subject to a further detailed design by an electrical engineer.

## 7. CONCLUSION

As detailed in the sections above and accompanying Stormwater Management Plan, it has been determined that the proposed development works will provide adequate Transport, Access, Stormwater, Water Reticulation, and Power/Telecommunications services to the subdivisional land development of 1 into 5 lots.

The current site conditions have been assessed, and it is seen that only general site works will be required to construct the proposed subdivision, including earthworks to construct access and the stormwater channel.

Stormwater Quantity and Quality Management have been addressed for the proposed development within the accompanying Stormwater Management Plan prepared by Kehoe Myers.

From **Section 4**, the site's clear conditions, gentle grading and compliant allotment sizes indicate that suitable on-site effluent disposal systems can be accommodated for each lot without requiring specialised treatments.

From **Section 5** above, it was concluded that the proposed development can be connected to the existing water network in Highfields Road and Arcadia Court. From a preliminary analysis of expected demands, the proposed development will have a negligible impact on the existing system, and no further analysis of these systems is required. All further details of these proposed internal networks will be provided as part of a future Operational Works application.

Finally, from the overall assessment of the electrical and telecommunication supply, it was seen that the development can be serviced by existing adjacent electrical and telecommunications networks. All further details regarding electrical, street lighting & telecommunications will be subject to a further detailed design by an electrical engineer.

Hence, as summarised above, the proposed development is able to be serviced by all applicable infrastructure services by utilising existing services and the creation of new connecting and complementary assets.

## **8. REFERENCES**

### **Text References**

Toowoomba Regional Council, Toowoomba Regional Planning Scheme

<https://www.tr.qld.gov.au/planning-building/planning-scheme-strategies-tools/planning-scheme-new/13289-access-the-toowoomba-regional-planning-scheme-9>

Queensland Government 2017, State Planning Policy, July 2017, Department of Infrastructure, Local Government Planning, Brisbane, Australia

Department of Energy and Water Supply (DEWS), "Planning Guidelines for Water Supply and Sewerage – April 2010

Austrroads Ltd 2020, Guide to Traffic Management Part 12: Traffic Impacts of Developments

Institute of Public Works Engineering Australasia, Queensland, 2017, Queensland Urban Drainage Manual –Fourth Edition, 2016, Institute of Public Works Engineering Australasia, Queensland

### **Software Used**

*Autodesk AutoCAD 2026*

## 9. APPENDICES

### APPENDIX A.

### PROPOSED ALLOTMENT LAYOUT (KEHOE MYERS DRAWING: C2526370-PR01-A)



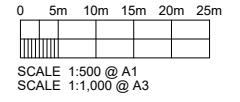
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**45 HIGHFIELDS ROAD,  
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DRAWING TITLE  
**PROPOSED ALLOTMENT  
 LAYOUT**

DESIGN	ORIGINAL SIZE	A1
DRAWN	PROJECT NUMBER	C2526370
CHECKED	DRAWING NUMBER	PR01
APPROVED	ISSUE	A

**PROPOSED ALLOTMENT LAYOUT**  
 SCALE:- 1:500 @ A1, 1:1000 @ A3

**APPENDIX B.**

**PRELIMINARY SERVICES LAYOUT  
(KEHOE MYERS DRAWING: C2526370-PR02 A)**

**OVERALL LEGEND**

--- T ---	EXISTING TELECOMMUNICATION LINES
--- SRM ---	EXISTING SEWER RISING MAIN
--- W ---	EXISTING WATER MAIN
--- SWD ---	EXISTING STORMWATER DRAINAGE PIPE, MANHOLE AND GULLY
--- OH ---	EXISTING OVERHEAD ELECTRICAL LINES AND POWER POLES
--- WS ---	EXISTING WATER SERVICE
--- UG ---	EXISTING UNDERGROUND ELECTRICAL CONDUITS
--- W ---	PROPOSED WATER PIPE
--- WS ---	PROPOSED WATER SERVICE
--- UG ---	PROPOSED ELECTRICAL CONDUIT
--- > ---	PROPOSED OPEN CHANNEL AND DIRECTION
(A)	PROPOSED ACCESS LOCATION
(W) (W)	PROPOSED HOUSE WATER CONNECTIONS
(E) (E)	PROPOSED ELECTRICAL CONNECTIONS

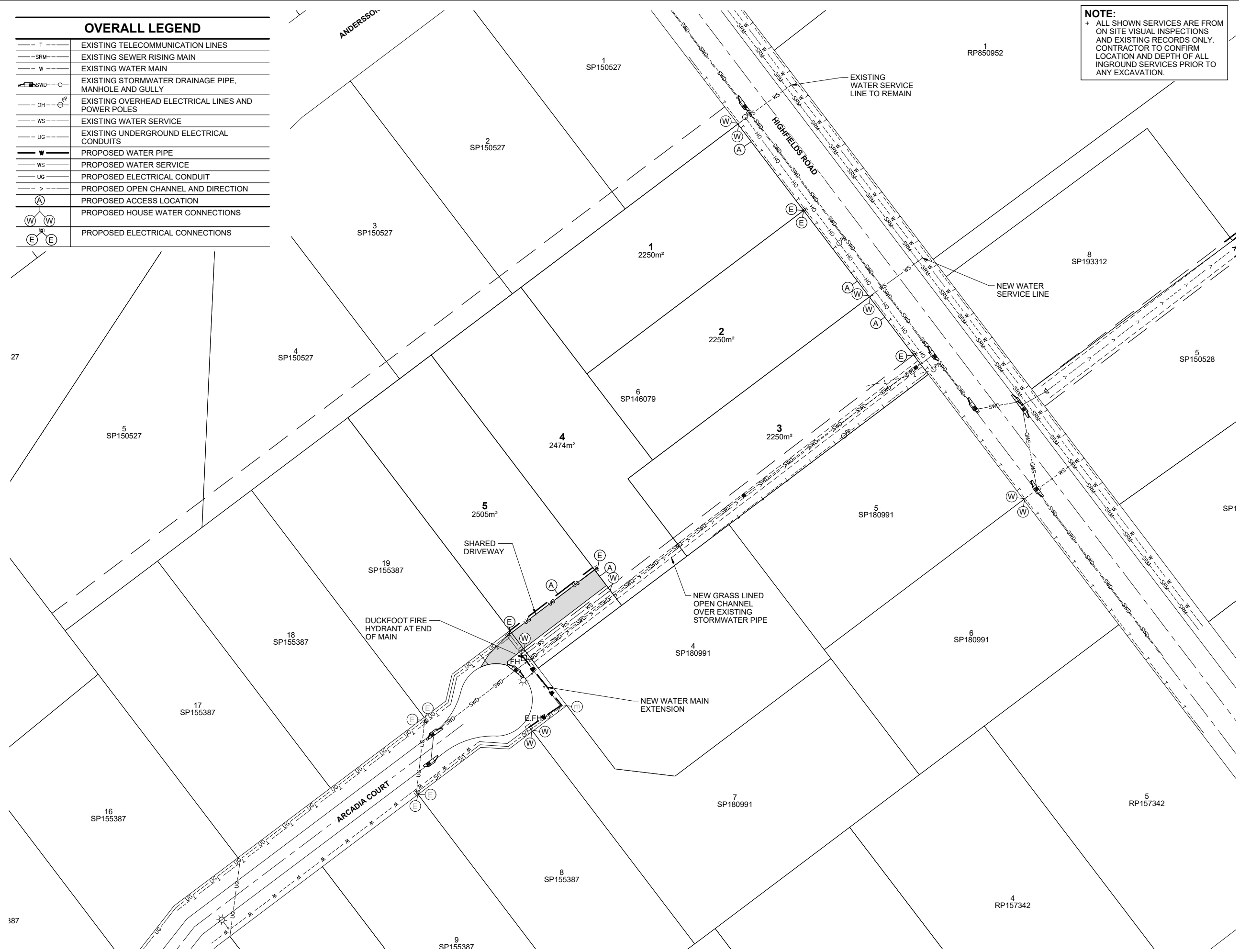
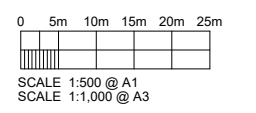
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 PRELIMINARY SERVICES  
 LAYOUT

DESIGN	ORIGINAL SIZE	A1
DRAWN	PROJECT NUMBER	C2526370
CHECKED	DRAWING NUMBER	PR02
APPROVED	ISSUE	A

**PRELIMINARY SERVICES LAYOUT**  
 SCALE:- 1:500 @ A1, 1:1000 @ A3

**APPENDIX C.**

**PRELIMINARY EARTHWORKS LAYOUT  
(KEHOE MYERS DRAWING: C2526370-PR03-A)**

**CUT/FILL LEGEND**

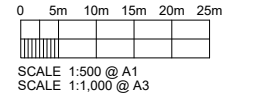
	PROPOSED FILL AREA
	PROPOSED CUT AREA

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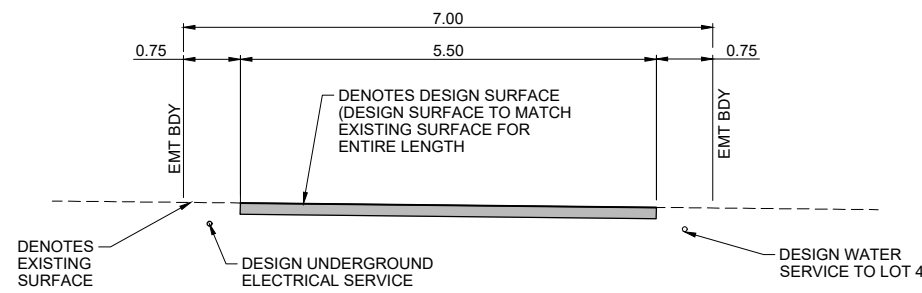
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CHECKED	DRAWING NUMBER	PR03
APPROVED	ISSUE	A

**PRELIMINARY EARTHWORKS LAYOUT**  
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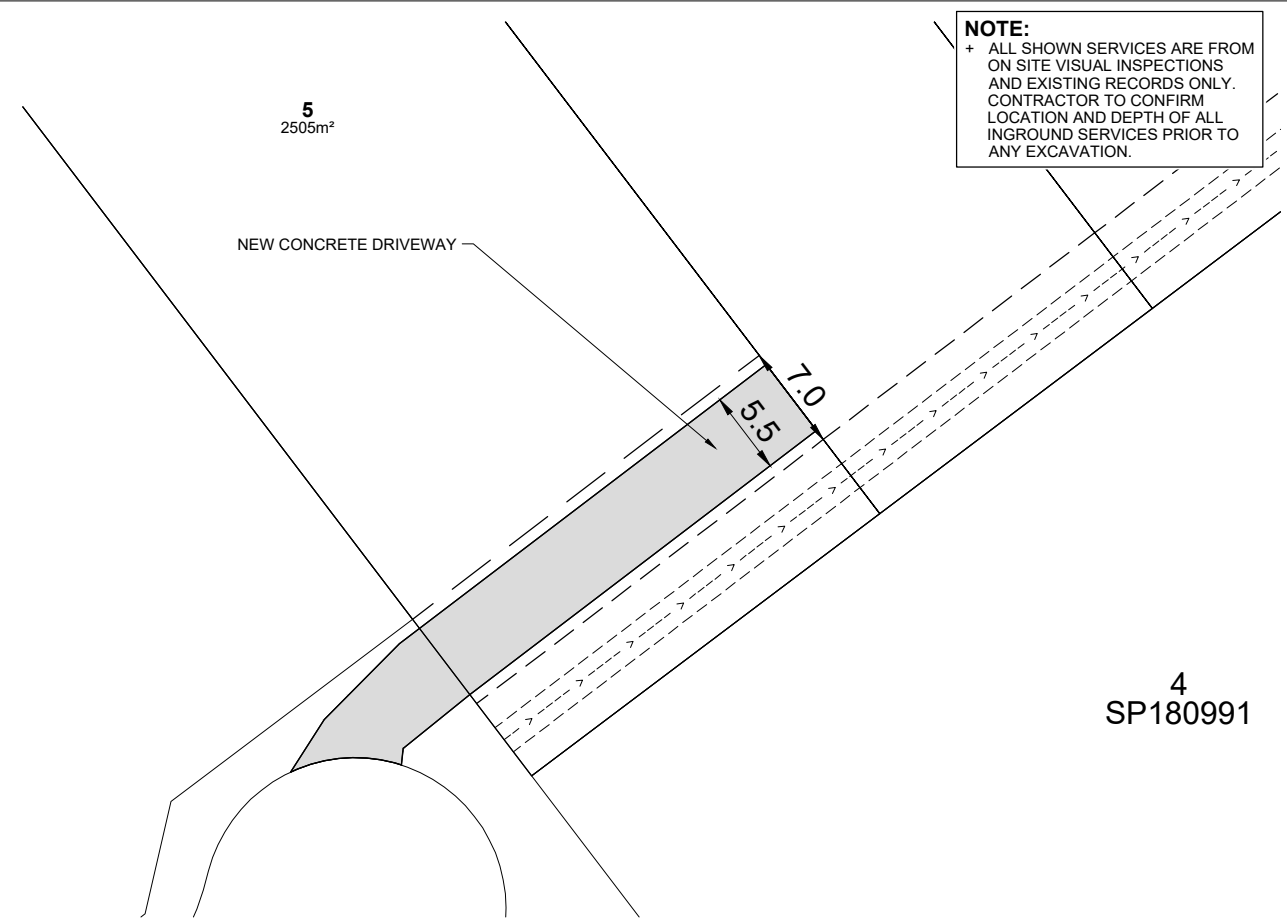
**APPENDIX D.**

**PRELIMINARY ACCESS LAYOUT  
(KEHOE MYERS DRAWING: C2526370-PR04-A)**

**NOTE:**  
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**TYPICAL SECTION - SHARED DRIVEWAY (5.5m WIDE)**  
 SCALE:- 1:50 @ A1, 1:100 @ A3



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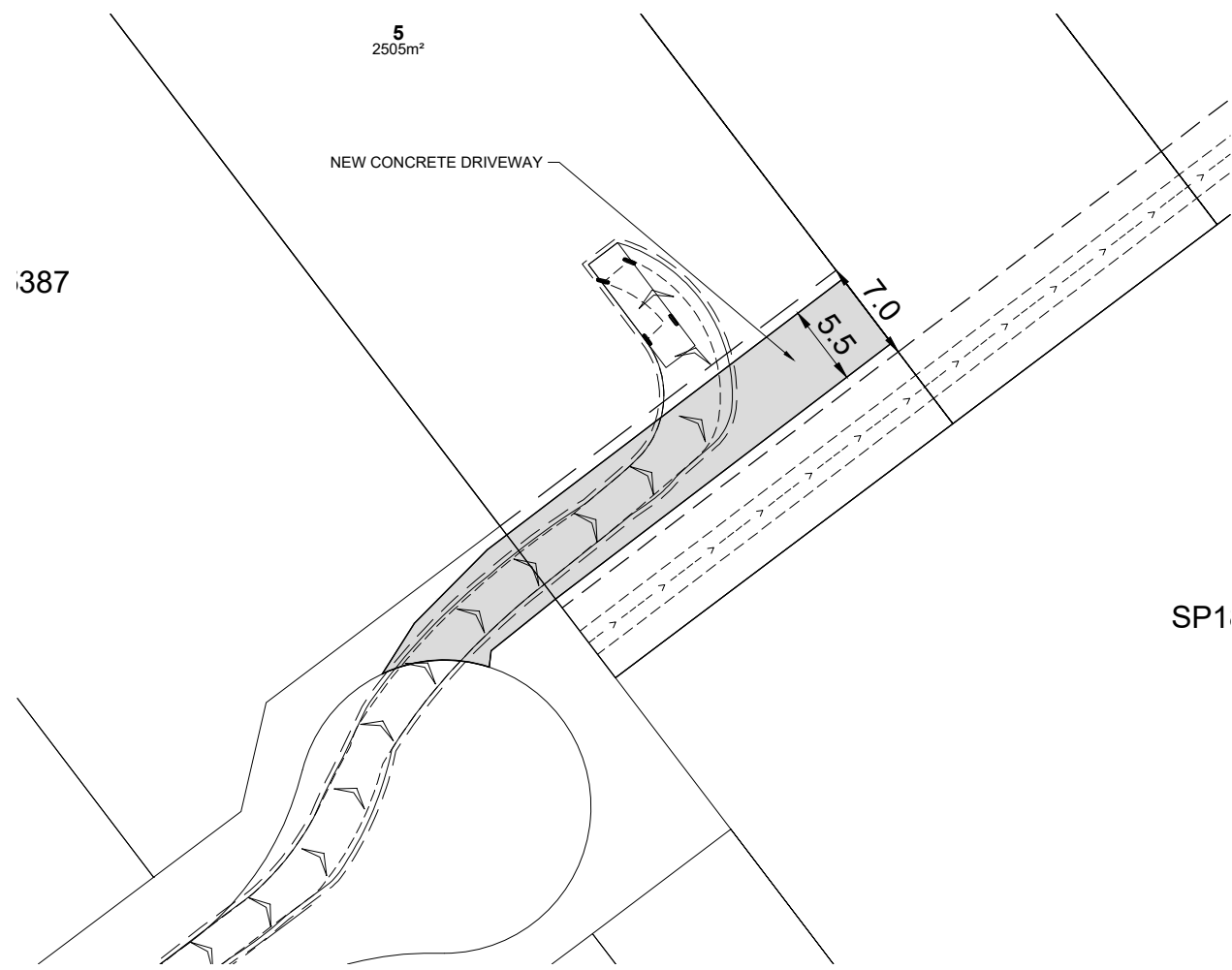
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CLIENT  
 PRECINCT URBAN PLANNING

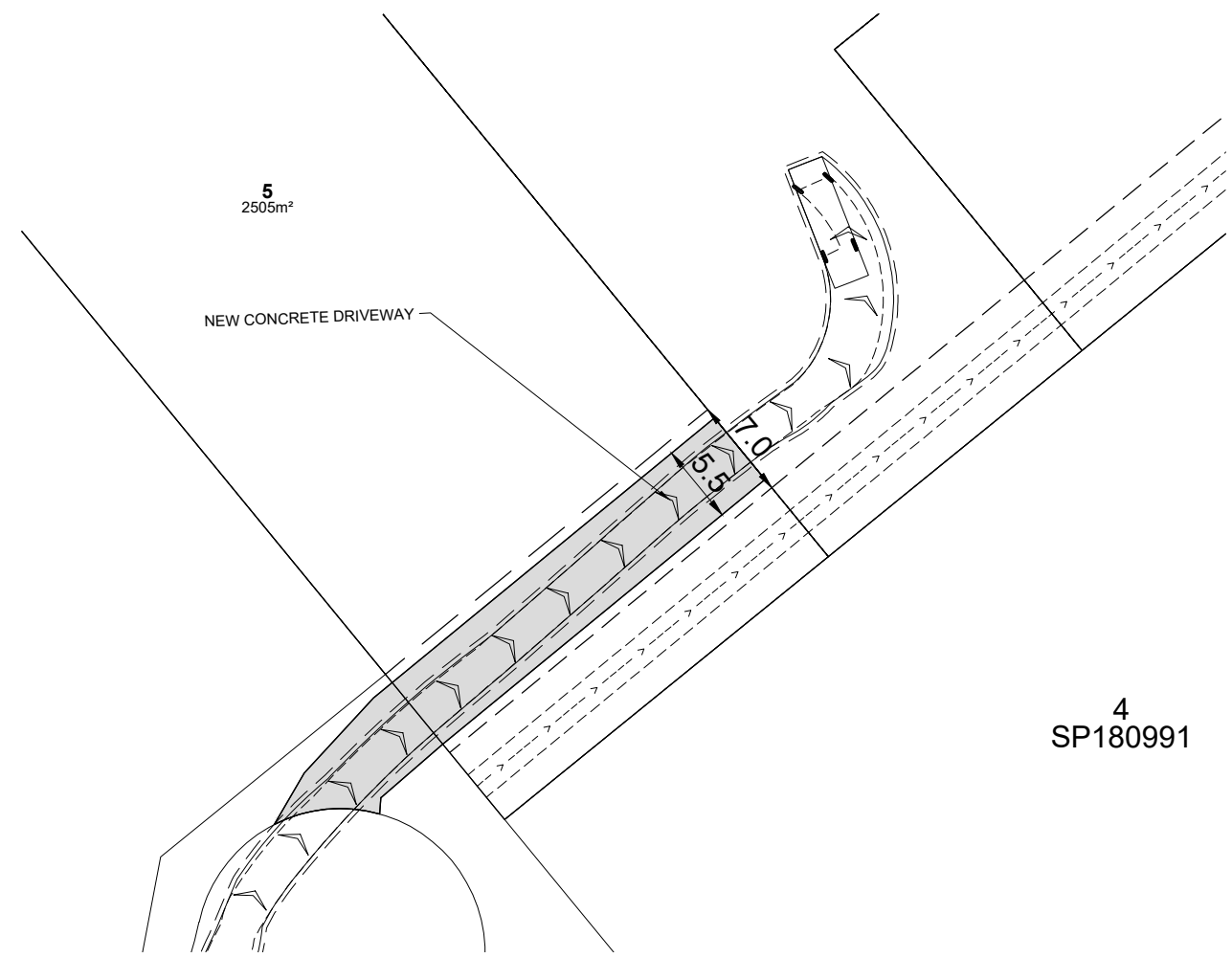
PROJECT  
 45 HIGHFIELDS ROAD,  
 HIGHFIELDS - SUBDIVISION

DRAWING TITLE  
 PRELIMINARY ACCESS  
 LAYOUT

DESIGN	ORIGINAL SIZE	A1
DRAWN	PROJECT NUMBER	C2526370
CHECKED	DRAWING NUMBER	PR04
APPROVED	ISSUE	A



SP1



4  
SP180991

**PRELIMINARY ACCESS LAYOUT**  
 SCALE:- 1:250 @ A1, 1:500 @ A3