

URBEX PTY LTD

SPRINGACRE RD, THORNLANDS, QLD, 4164

SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL APPLICATION



KEY PLAN
SCALE 1:25000 (A1)

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039

Date: 17 August 2026



DEVELOPMENT SUMMARY

ESTATE NAME: SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL
LOCATION: SPRINGACRE RD, THORNLANDS, QLD, 4164
TOTAL AREA: 10.6 Ha

NAME OF AUTHORITY REF. No.

LOCAL AUTHORITY : REDLAND CITY COUNCIL

PROPERTY DESCRIPTION

LOTS 12-14 & 16 on RP53653
LOT 2 on RP128089
PARISH OF CLEVELAND
COUNTY OF STANLEY

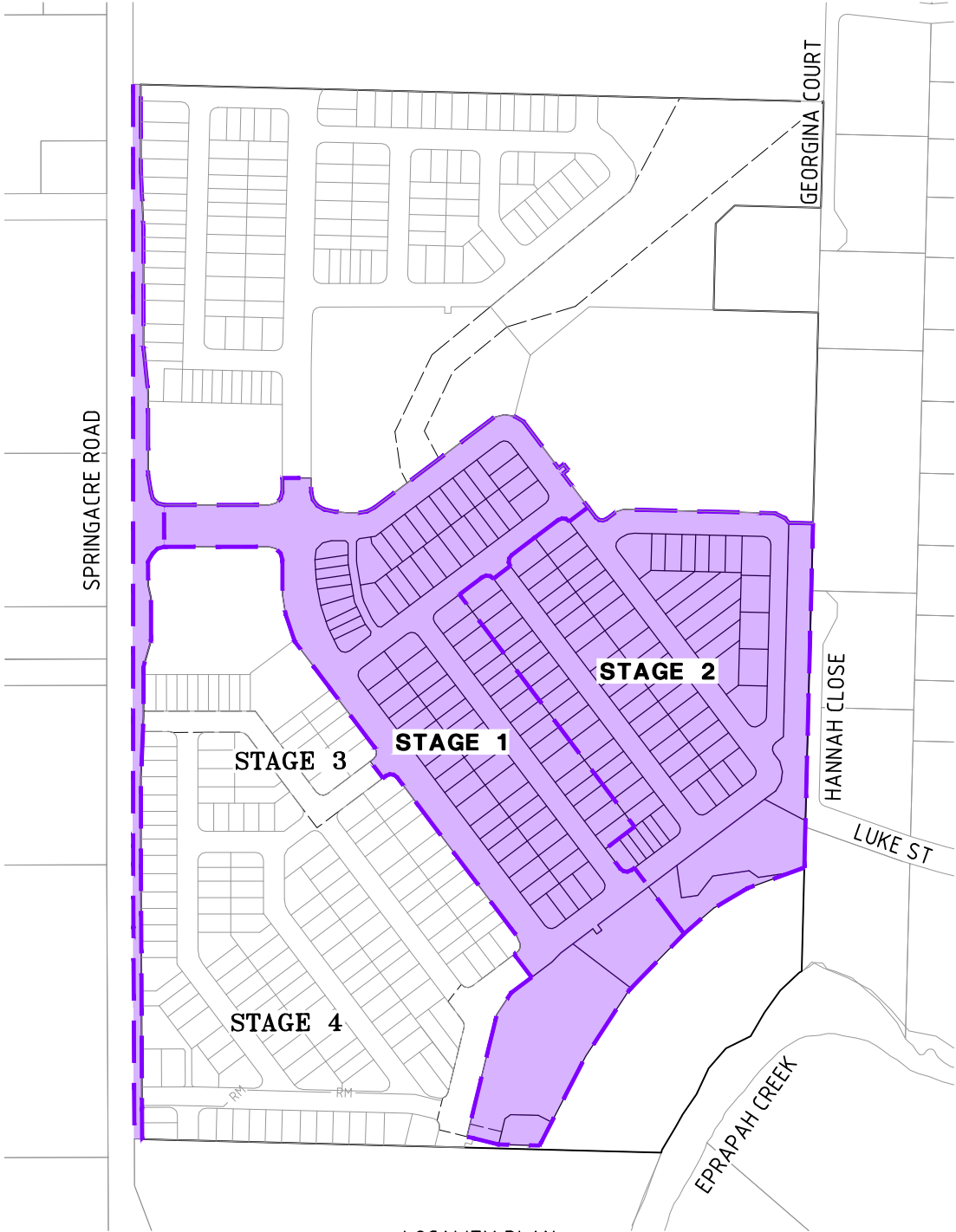
SURVEY ORIGIN

PSM 79006 RL 67.474
DATUM AHD
SURVEYOR
REFER TO THE RPS GROUP CONTROL PLAN-AU011113-2A
REDLAND CC LEVELLING 2012-16 LEAD 161

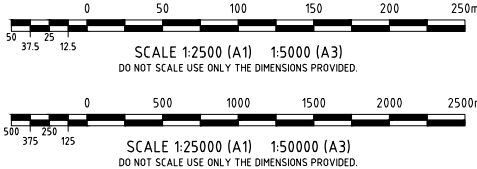
REVISION: D DATE: 29/07/26



NOTE:
INDICATIVE STAGING ORDER SHOWN. ORDER
MAY CHANGE DEPENDING ON TIMING OF
EXTERNAL INFRASTRUCTURE REQUIREMENTS.



LOCALITY PLAN
SCALE 1:2500 (A1)



DRAWING INDEX

SHEET NUMBER	REVISION	SHEET TITLE
GENERAL ARRANGEMENT		
B00702-DA-CG01	D	TITLE SHEET, LOCALITY PLAN AND DRAWING INDEX
B00702-DA-CG02	C	STAGING PLAN
B00702-DA-CG03	C	GENERAL ARRANGEMENT PLAN - SHEET 1 OF 2
B00702-DA-CG04	C	GENERAL ARRANGEMENT PLAN - SHEET 2 OF 2
B00702-DA-CG05	C	TYPICAL DETAILS
EXISTING FEATURES		
B00702-DA-EF01	C	EXISTING FEATURES LAYOUT PLAN
EARTHWORKS MANAGEMENT		
B00702-DA-CE01	F	OVERALL EARTHWORKS LAYOUT PLAN
B00702-DA-CE02	C	EARTHWORKS DETAILED LAYOUT PLAN - SHEET 1 OF 4
B00702-DA-CE03	C	EARTHWORKS DETAILED LAYOUT PLAN - SHEET 2 OF 4
B00702-DA-CE04	C	EARTHWORKS DETAILED LAYOUT PLAN - SHEET 3 OF 4
B00702-DA-CE05	C	EARTHWORKS DETAILED LAYOUT PLAN - SHEET 4 OF 4
B00702-DA-CE06	C	EARTHWORKS - CROSS SECTIONS - SHEET 1 OF 2
B00702-DA-CE07	C	EARTHWORKS - CROSS SECTIONS - SHEET 2 OF 2
B00702-DA-RW01	C	RETAINING WALL - TYPICAL DETAILS - SHEET 1 OF 2
B00702-DA-RW02	C	RETAINING WALL - TYPICAL DETAILS - SHEET 2 OF 2
ROADWORKS		
B00702-DA-CR01	D	ROAD NETWORK LAYOUT
B00702-DA-CR02	D	ROAD NETWORK SECTIONS
B00702-DA-CR03	C	ROAD AND DRAINAGE PLAN - SHEET 1 OF 2
B00702-DA-CR04	C	ROAD AND DRAINAGE PLAN - SHEET 2 OF 2
B00702-DA-CR06	D	ENTRY ROAD INTERSECTION DETAIL
B00702-DA-CR07	D	ENTRY ROAD SECTIONS
B00702-DA-CR08	C	ROAD LONGITUDINAL SECTION - SHEET 1 OF 6
B00702-DA-CR09	C	ROAD LONGITUDINAL SECTION - SHEET 2 OF 6
B00702-DA-CR10	C	ROAD LONGITUDINAL SECTION - SHEET 3 OF 6
B00702-DA-CR11	C	ROAD LONGITUDINAL SECTION - SHEET 4 OF 6
B00702-DA-CR12	C	ROAD LONGITUDINAL SECTION - SHEET 5 OF 6
B00702-DA-CR13	C	ROAD LONGITUDINAL SECTION - SHEET 6 OF 6
STORMWATER DRAINAGE		
B00702-DA-SW01	C	PRE DEVELOPMENT CATCHMENT PLAN
B00702-DA-SW02	C	POST DEVELOPMENT CATCHMENT PLAN
B00702-DA-SW03	C	STORMWATER QUALITY CATCHMENT PLAN
BIORETENTION DETAILS		
B00702-DA-CB01	C	BIORETENTION BASIN A2 AND A3 LAYOUT PLAN
B00702-DA-CB02	C	BIORETENTION BASIN A2 AND A3 CROSS SECTIONS
B00702-DA-CB03	C	BIORETENTION BASIN B2 LAYOUT PLAN
B00702-DA-CB04	C	BIORETENTION BASIN B2 CROSS SECTIONS
TURN TEMPLATE		
B00702-DA-CT01	C	TURNING TEMPLATE - DESIGN VEHICLE 14.5m BUS - SHEET 1 OF 4
B00702-DA-CT02	C	TURNING TEMPLATE - DESIGN VEHICLE 14.5m BUS - SHEET 2 OF 4
B00702-DA-CT03	C	TURNING TEMPLATE - DESIGN VEHICLE 14.5m BUS - SHEET 3 OF 4
B00702-DA-CT04	C	TURNING TEMPLATE - DESIGN VEHICLE 14.5m BUS - SHEET 4 OF 4
B00702-DA-CT05	C	TURNING TEMPLATE - CHECK VEHICLE 19m SEMI TRUCK - SHEET 1 OF 2
B00702-DA-CT06	C	TURNING TEMPLATE - CHECK VEHICLE 19m SEMI TRUCK - SHEET 2 OF 2
B00702-DA-CT07	C	TURNING TEMPLATE - SERVICE VEHICLE 10.3m TRUCK - SHEET 1 OF 4
B00702-DA-CT08	C	TURNING TEMPLATE - SERVICE VEHICLE 10.3m TRUCK - SHEET 2 OF 4
B00702-DA-CT09	C	TURNING TEMPLATE - SERVICE VEHICLE 10.3m TRUCK - SHEET 3 OF 4
B00702-DA-CT10	C	TURNING TEMPLATE - SERVICE VEHICLE 10.3m TRUCK - SHEET 4 OF 4
B00702-DA-CT11	C	TURNING TEMPLATE - DESIGN VEHICLE 5.2m CAR
SEWERAGE RETICULATION		
B00702-DA-CS01	C	CONCEPT SEWER RETICULATION PLAN - SHEET 1 OF 2
B00702-DA-CS02	C	CONCEPT SEWER RETICULATION PLAN - SHEET 2 OF 2
WATER RETICULATION		
B00702-DA-CW01	C	CONCEPT WATER RETICULATION PLAN - SHEET 1 OF 2
B00702-DA-CW02	C	CONCEPT WATER RETICULATION PLAN - SHEET 2 OF 2
COMBINED SERVICES		
B00702-DA-CM01	C	COMBINED SERVICES PLAN - SHEET 1 OF 2
B00702-DA-CM02	C	COMBINED SERVICES PLAN - SHEET 2 OF 2
B00702-DA-CM03	C	COMBINED SERVICES PLAN - TYPICAL DETAILS



Datum
AHD
PSM 79006
RL 67.474
(RCC) COORD

NOT FOR CONSTRUCTION

Project No. Drawing No. Rev

B00702-DA-CG01 D

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



FOR SPRINGACRE RD INTERIM ROAD UPGRADES REFER B00703 SET

TYPICAL INTERSECTION KERB RETURN RADII = 7.5m TO NOM. FACE OF KERB

- LEGEND**
- STAGE BOUNDARY
 - LOT BOUNDARY
 - EXISTING BOUNDARY
 - ROAD CENTERLINE
 - OPTIONAL BUILD TO BOUNDARY
 - MANDATORY BUILD TO BOUNDARY
 - BARRIER TYPE 'B1' KERB AND CHANNEL
 - MOUNTABLE TYPE 'M1' KERB AND CHANNEL
 - EASEMENT
 - INDICATIVE FUTURE LOT BOUNDARY
 - FUTURE BARRIER KERB AND CHANNEL
 - FUTURE MOUNTABLE KERB AND CHANNEL

0 15 30 45 60 75m
SCALE 1:750 (A1) 1:1500 (A3)
DO NOT SCALE. USE ONLY THE DIMENSIONS PROVIDED.

ENGINEERING CERTIFICATION

Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



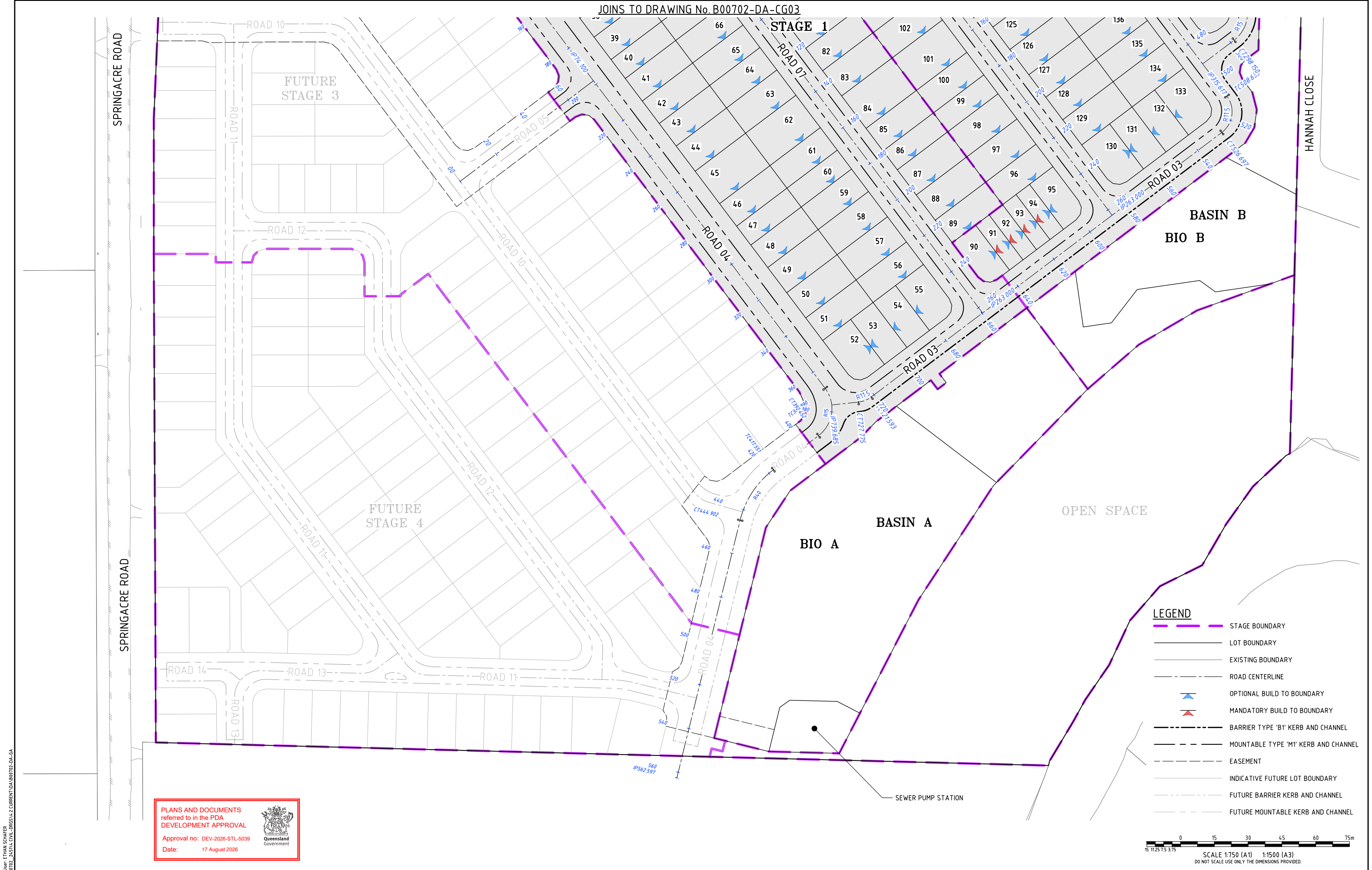
Client **URBEX PTY LTD**

Project **SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL**

Title **GENERAL ARRANGEMENT PLAN
SHEET 1 OF 2**

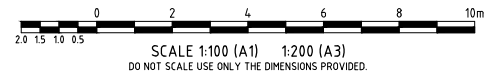
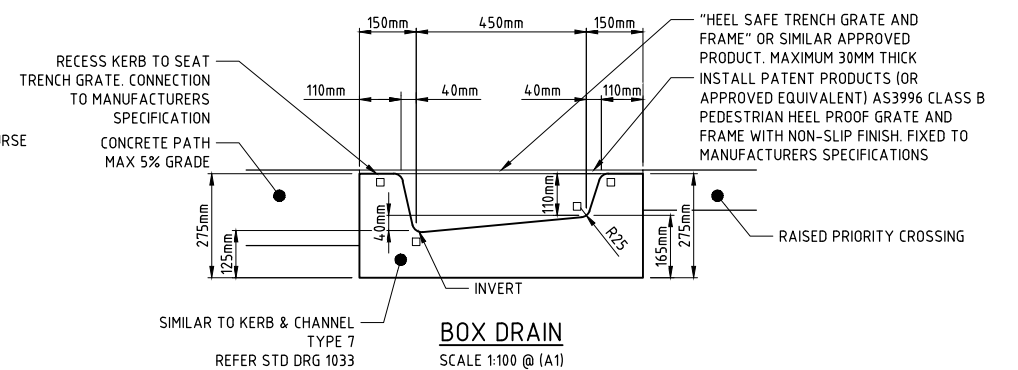
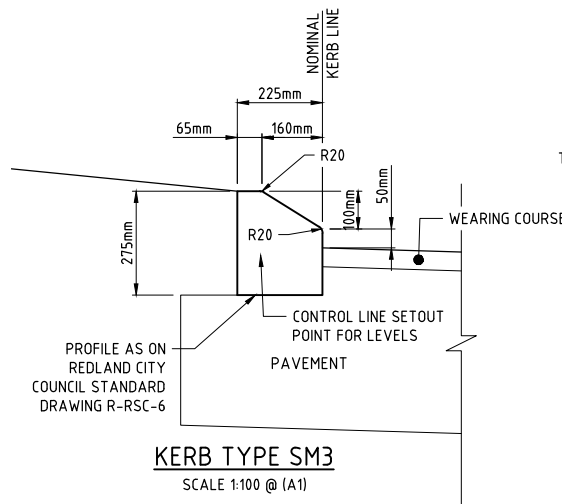
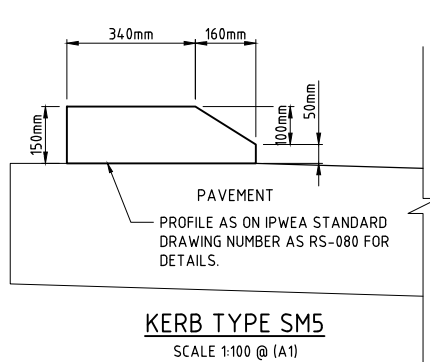
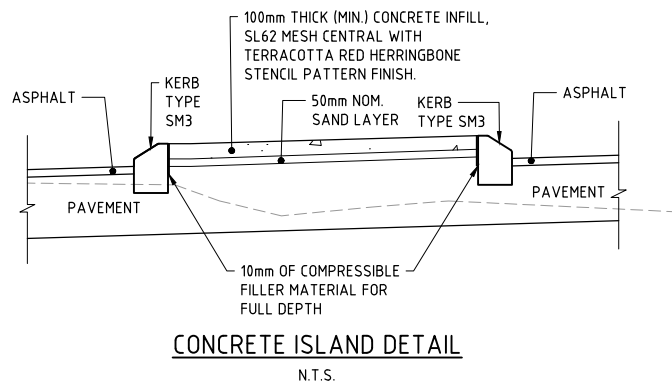
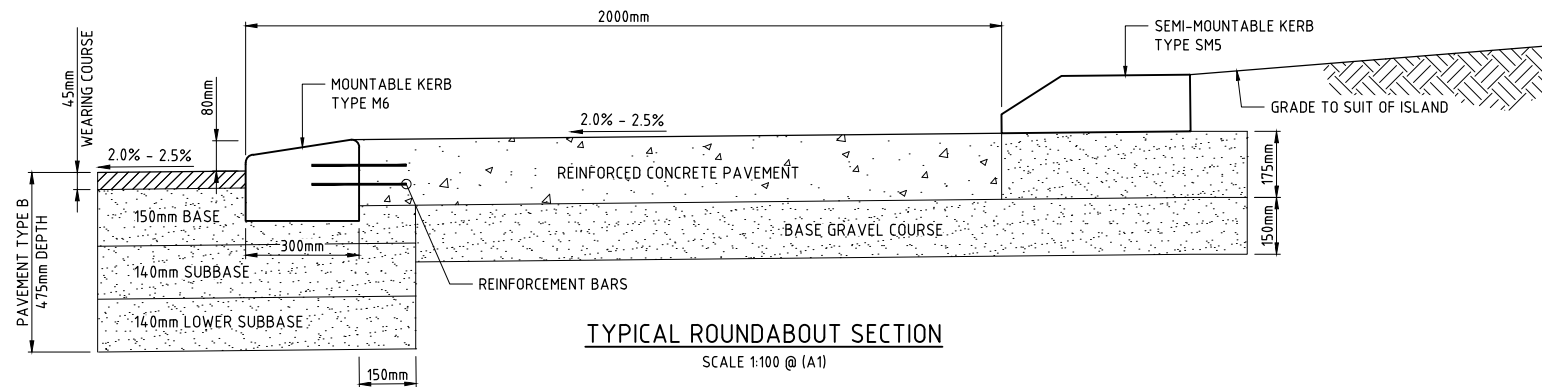
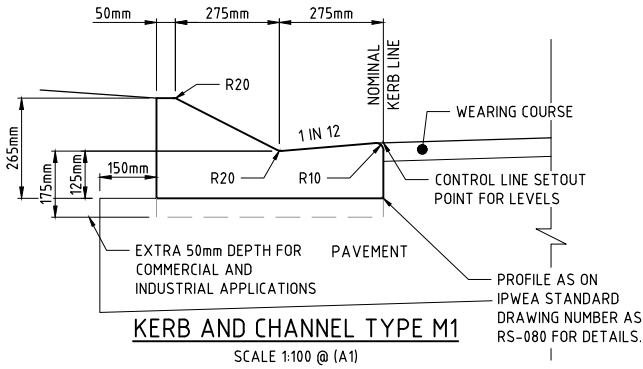
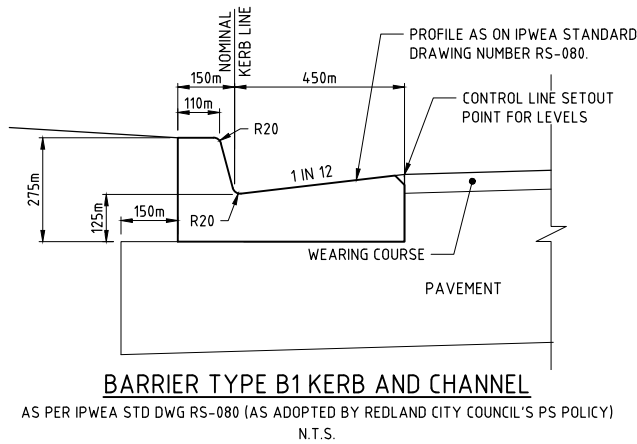
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PSM 79006
RL 67.474
(RCC) COORD**

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Project No. Drawing No. Rev
B00702-DA-CG03 C



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<i>Peter Angerman</i> Registered Engineer Date 19/6/2026									
9424									
Registered Accreditation									
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Client URBEX PTY LTD									
Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL									
Title GENERAL ARRANGEMENT PLAN SHEET 2 OF 2									
Datum AHD PSM 79006 RL 67.474 (RCC) COORD									
NOT FOR CONSTRUCTION									
Project No. Drawing No. Rev									
B00702-DA-CG04 C									



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039

Date: 17 August 2026

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ENGINEERING CERTIFICATION						
Peter Ingelman						
Registered Engineer						
Date 19/6/2026						
9424						
Registered Accreditation						

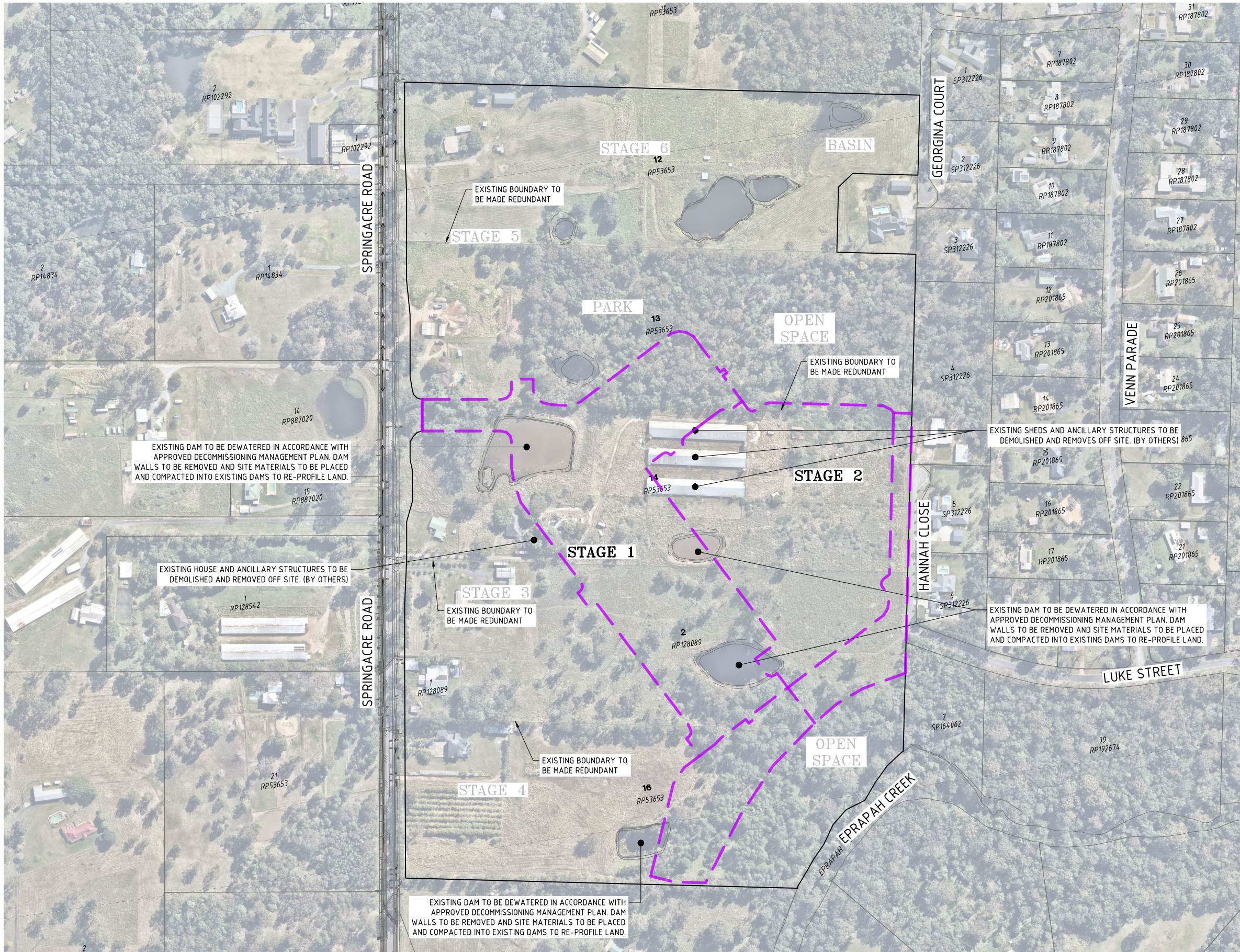
URBEX

EMPOWER

Client	URBEX PTY LTD		
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		
Title	TYPICAL DETAILS		
Datum	AHD	PSM 79006	RL 67.474 (RCC) COORD
Project No.	B00702-DA-CG05	Drawing No.	C

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25

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- LEGEND**
- STAGE BOUNDARY
 - EXISTING BOUNDARY
 - REDUNDANT BOUNDARY
 - PRECINCT 1 BOUNDARY

AERIAL IMAGE SUPPLIED BY NEARMAP

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

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<i>Peter Angerman</i>						
Registered Engineer						
Date 19/6/2026						
9424						
Registered Accreditation						



Client	URBEX PTY LTD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL
Title	EXISTING FEATURES LAYOUT PLAN

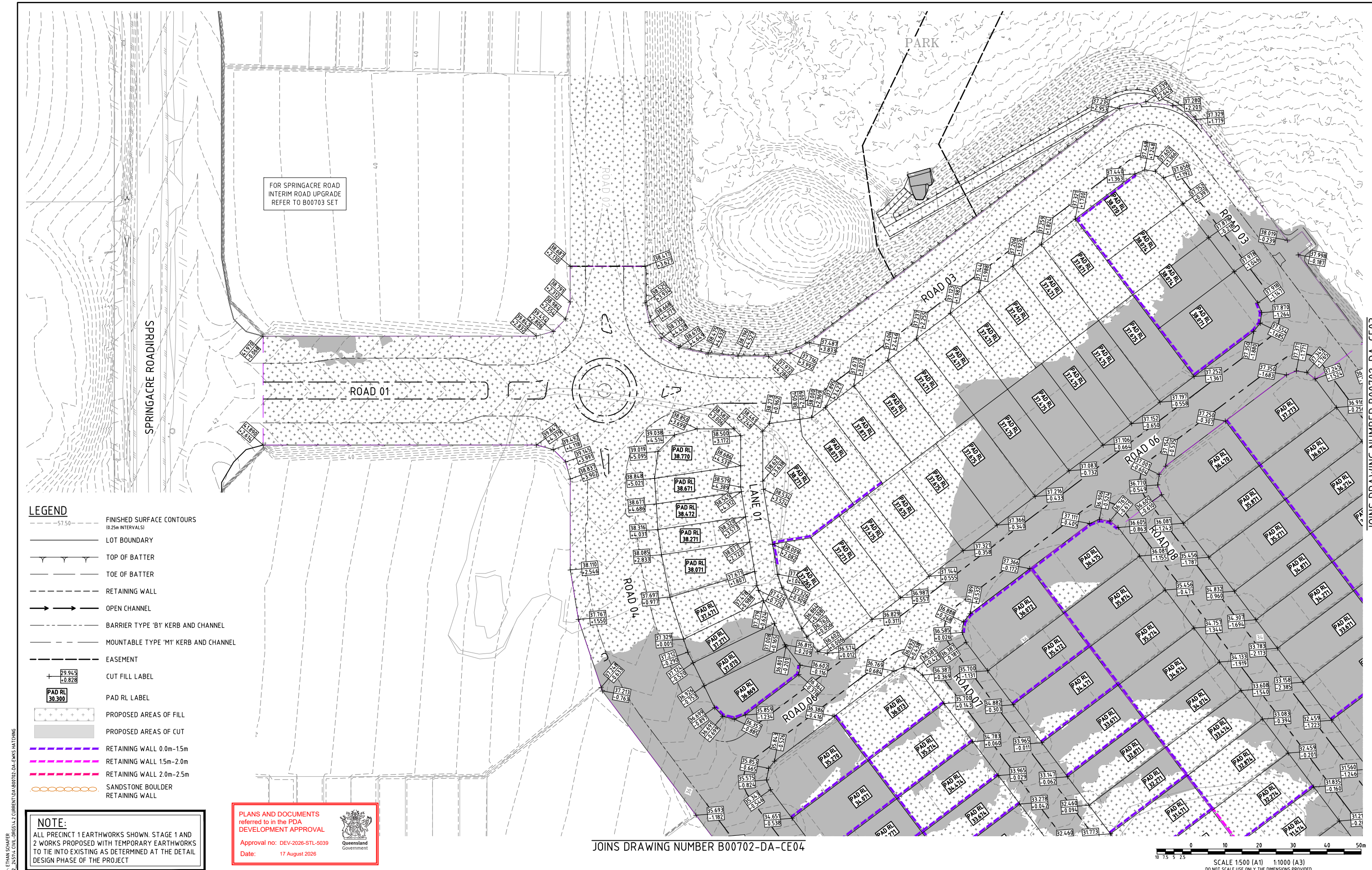
Datum	AHD	PSM 79006	RL 67.474 (RCC) COORD
Project No.	B00702-DA-EF01	Drawing No.	C
Rev			

Scale: 1:2000 (A1) 1:4000 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

No.	Amendments	Drawn	Design	Design Chk	Appd	Date	Registered Accreditation
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	

User: ETHAN SCHAFER
Plot Date: 19/06/2026 12:16:02 PM
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9424									
Registered Accreditation									
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C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26			
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26			
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25			
No.	Amendments	Drawn	Design	Design Chk	Appd	Date			

Client
URBEX PTY LTD

Project
SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL

Title
**EARTHWORKS DETAILED LAYOUT PLAN
SHEET 1 OF 4**

Datum
**AHD
PSM 79006
RL 67.474
(RCC) COORD**

NOT FOR CONSTRUCTION

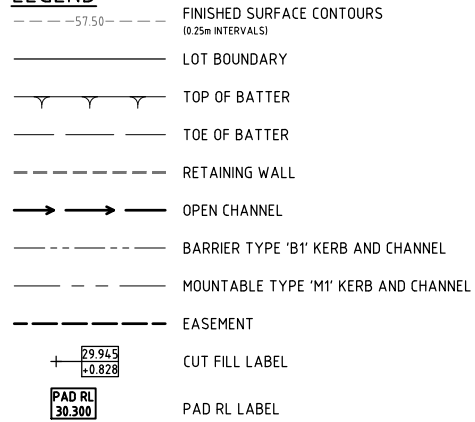
Project No.
B00702-DA-CE02

Drawing No.
C

Rev
C

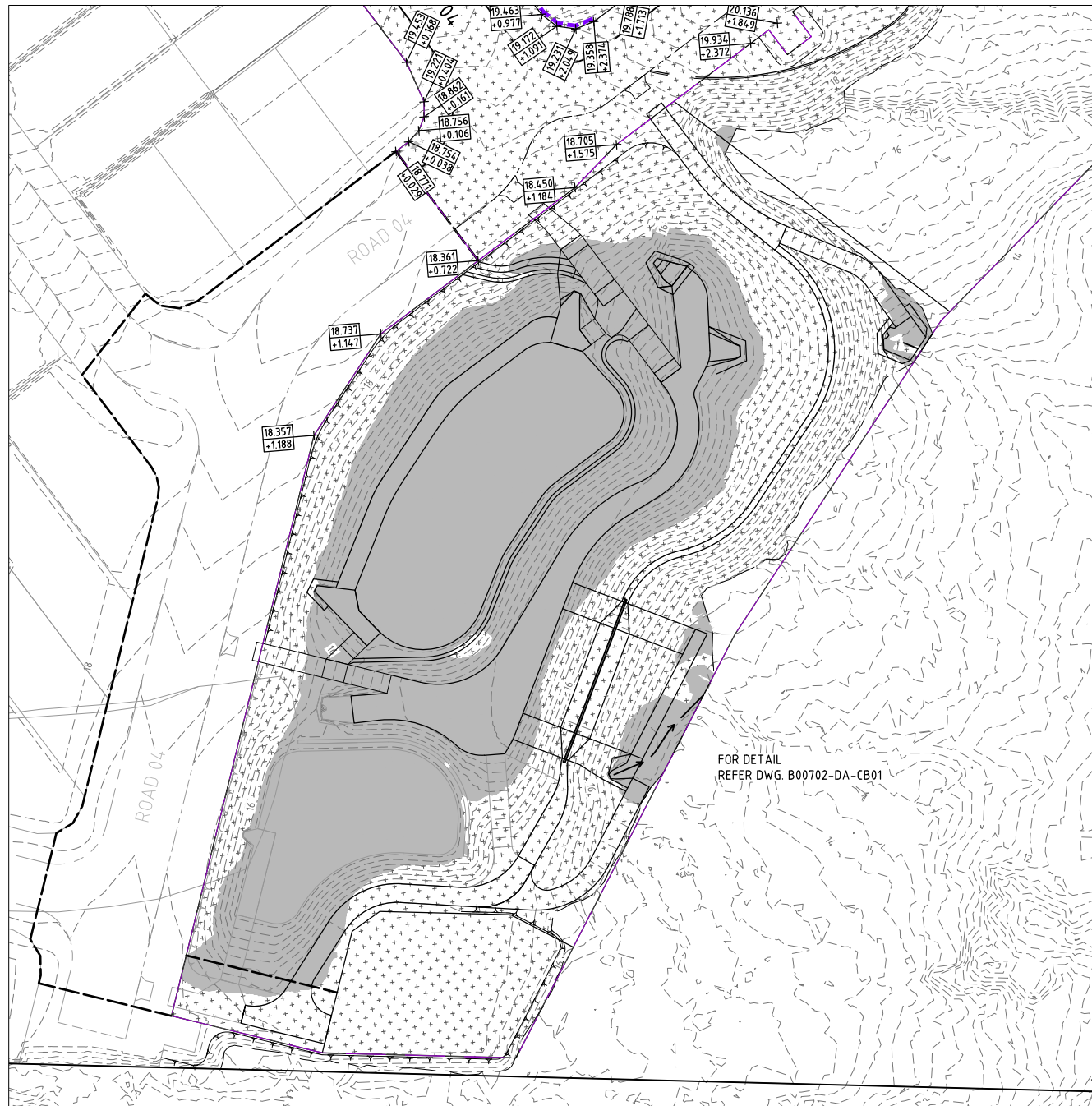
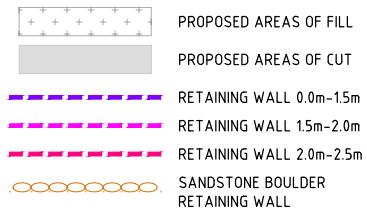
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LEGEND



NOTE:

ALL PRECINCT 1 EARTHWORKS SHOWN. STAGE 1 AND 2 WORKS PROPOSED WITH TEMPORARY EARTHWORKS TO TIE INTO EXISTING AS DETERMINED AT THE DETAIL DESIGN PHASE OF THE PROJECT

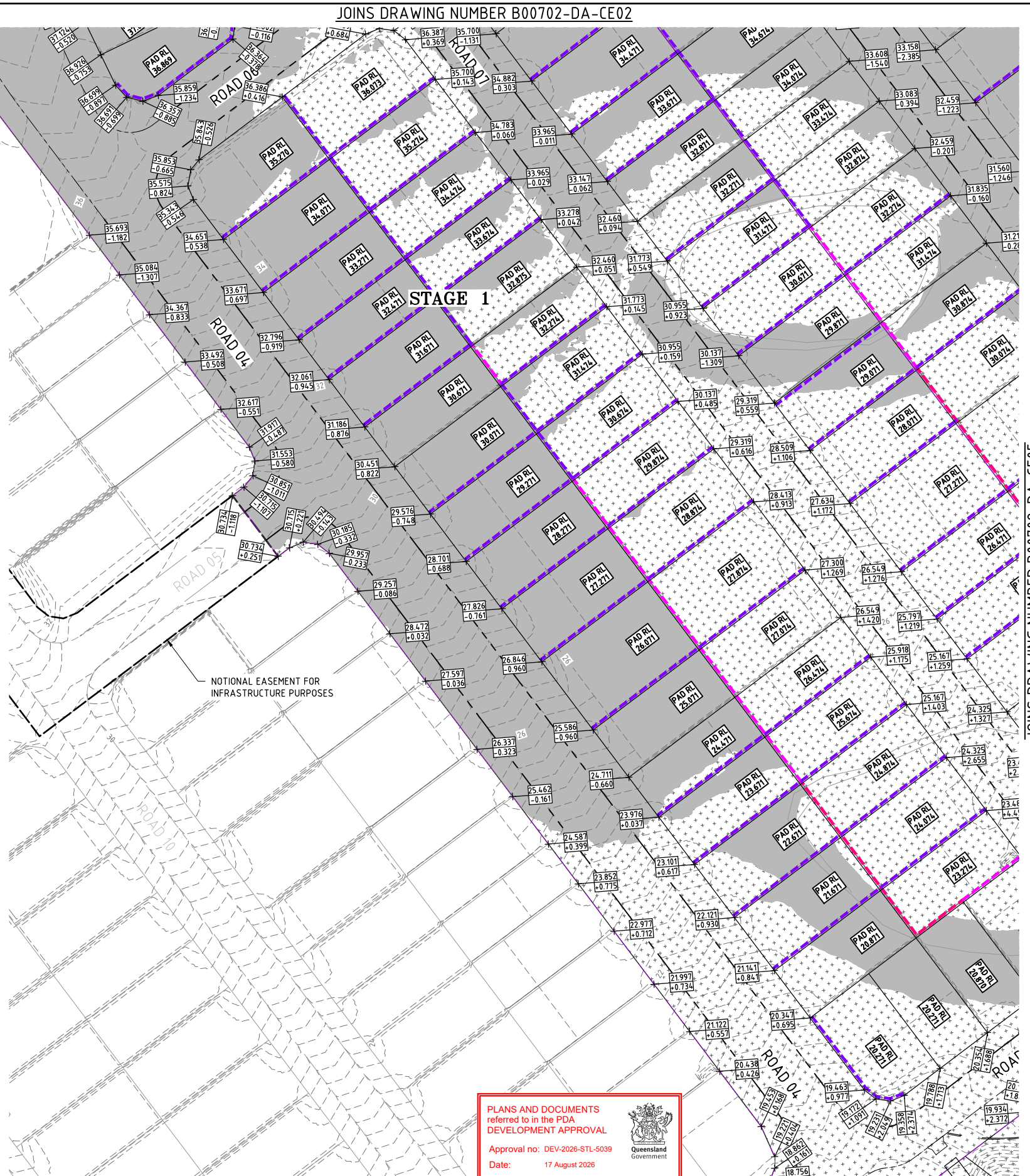


INSET A-A

0 10 20 30 40 50m

SCALE 1:500 (A1) 1:1000 (A3)

DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.



PLANS AND DOCUMENTS
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DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039
Date: 17 August 2026



JOINS INSET A-A LEFT

Plot Date: 19/06/2026 12:17:18 PM
File Name: S:\2026\Urban\MANZ025\N01\B00702 - 2451\4 CIVIL-DRWS\A-Z CURRENT\DA\B00702-DA-EWIS\MATCHING

ENGINEERING CERTIFICATION						
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026						
9424						
Registered Accreditation						

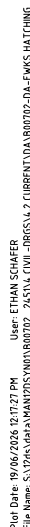


Client	URBEX PTY LTD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL
Title	EARTHWORKS DETAILED LAYOUT PLAN SHEET 3 OF 4

Datum AHD PSM 79006 RL 67.474 (RCC) COORD		
NOT FOR CONSTRUCTION		
Project No.	Drawing No.	Rev
B00702-DA-CE04	C	



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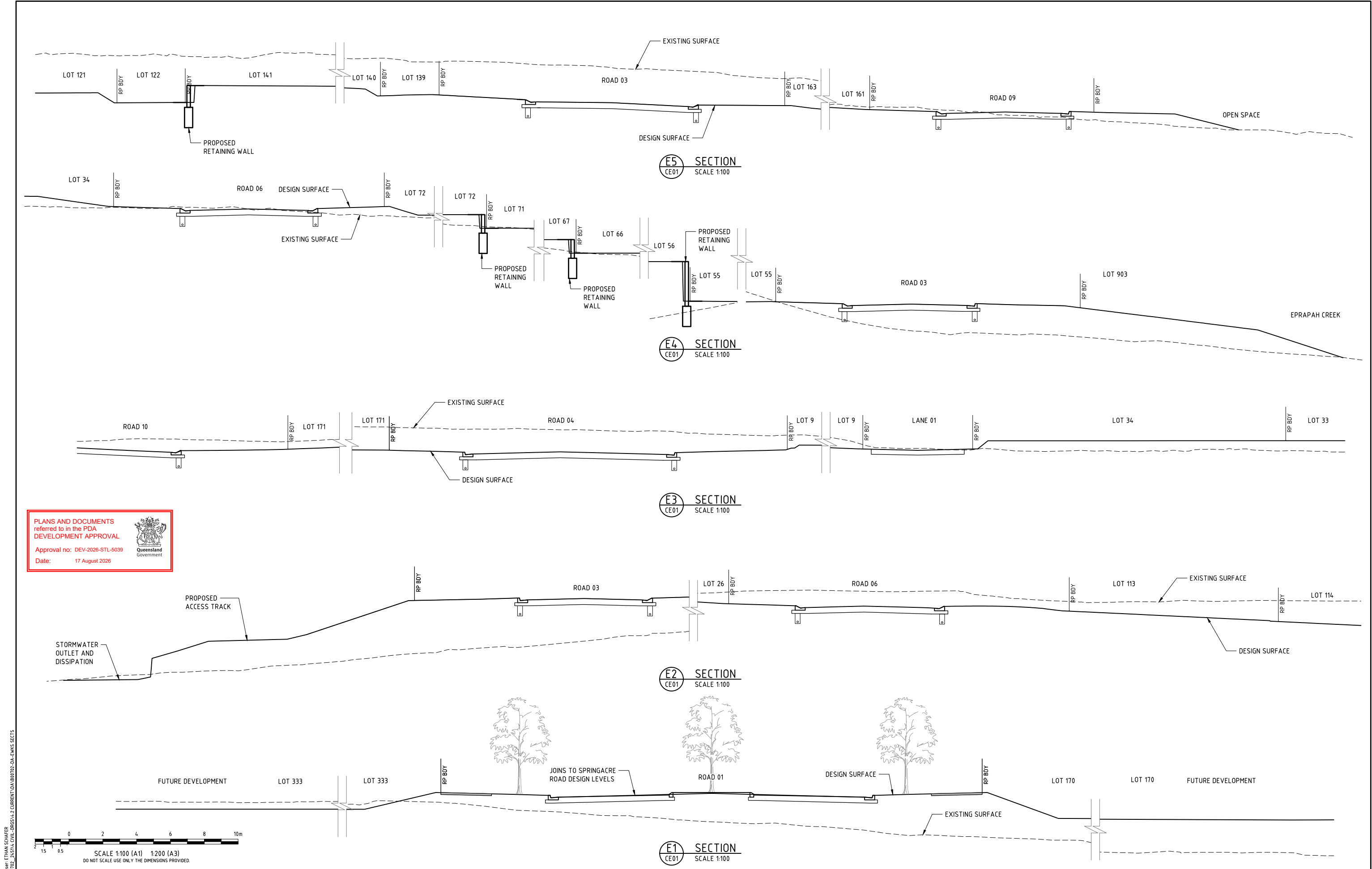


								ENGINEERING CERTIFICATION
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	 Registered Engineer	
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	Date 19/6/2026	
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	9424	
No.	Amendments	Drawn	Design	Design Chk	Appd	Date	Registered Accreditation	

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<i>Client</i>	URBEX PTY LTD	<i>Datum</i> AHD	
<i>Project</i>	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	PSM 79006 RL 67.474 (RCC) COORD	
<i>Title</i>	EARTHWORKS DETAILED LAYOUT PLAN SHEET 4 OF 4	NOT FOR CONSTRUCTION	
		<i>Project No.</i> B00702-DA-CE05	<i>Drawing No.</i> C



ENGINEERING CERTIFICATION										Client URBEX PTY LTD		Datum AHD PSM 79006	
Peter Angerman Registered Engineer Date 19/6/2026										Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		RL 67.474 (RCC) COORD	
9424 Registered Accreditation										Title EARTHWORKS CROSS SECTIONS		NOT FOR CONSTRUCTION	
										Project No. B00702-DA-CE06		Drawing No. C	
										Rev C			

C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25
No.	Amendments	Drawn	Design	Design Chk	Appd	Date

Urbex logo

Empower logo

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

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Date: 17 August 2026

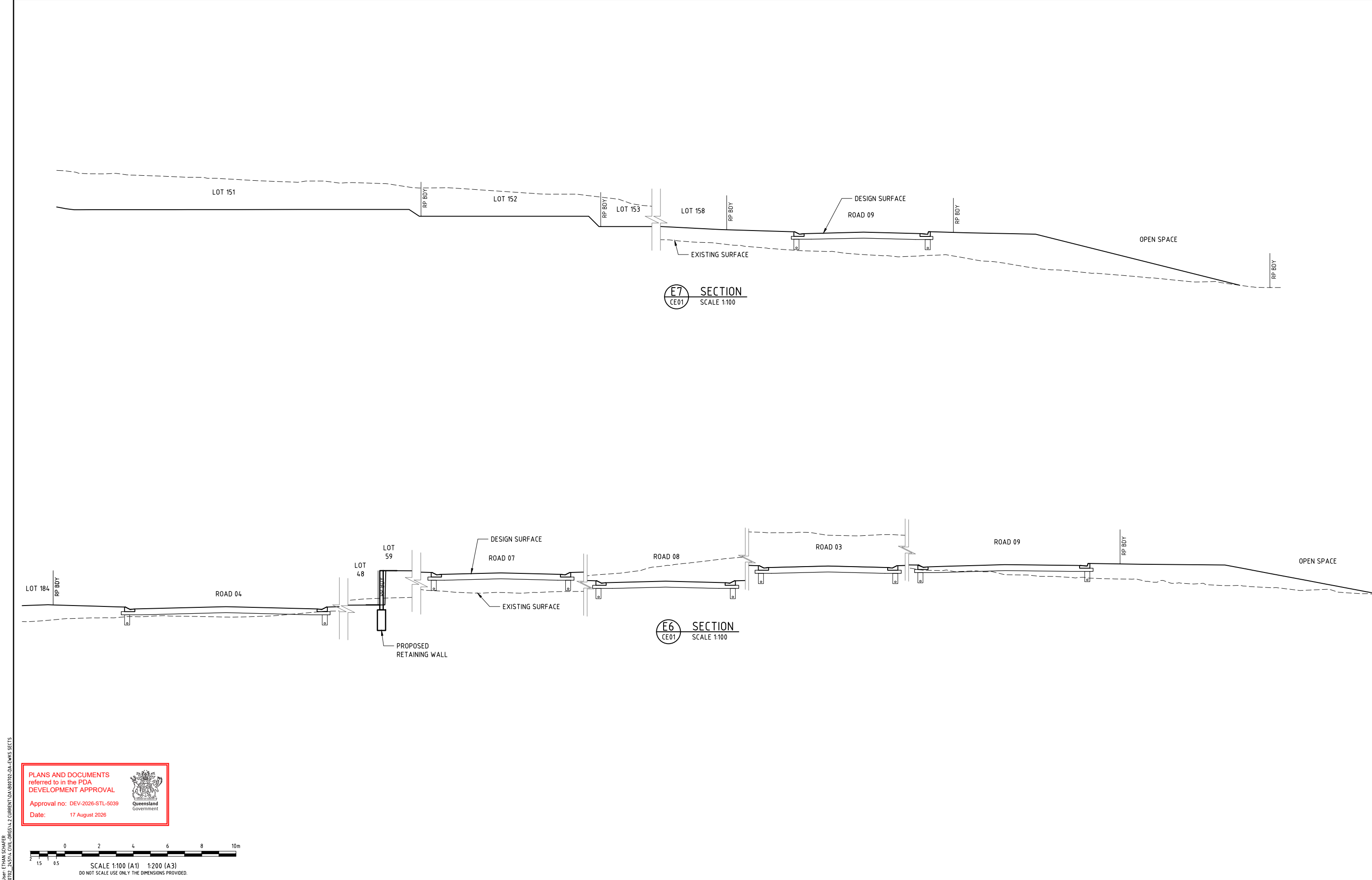
Queensland Government

Scale bar: 0 to 10m

SCALE 1:100 (A1) 1:200 (A3)

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Plot Date: 19/06/2026 12:17:33 PM
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User: ETHAN SCHAFER

PLANS AND DOCUMENTS
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Approval no: DEV-2026-STL-5039
Date: 17 August 2026



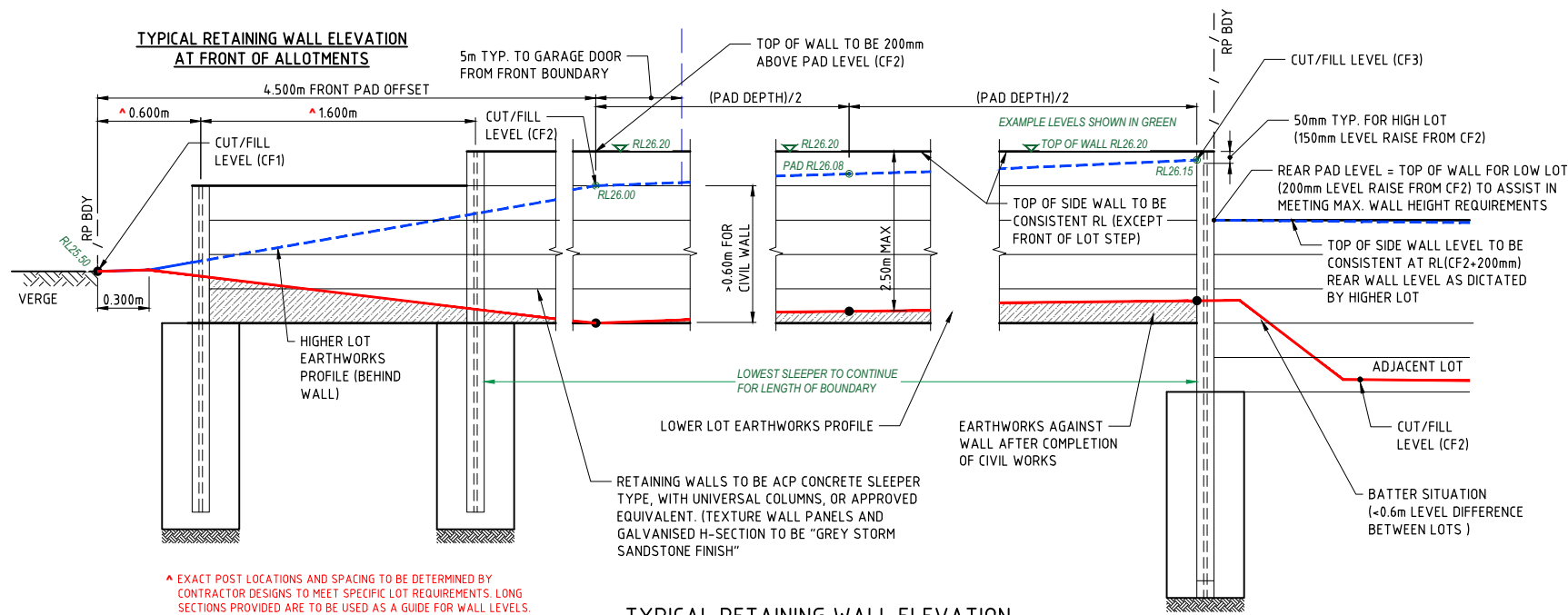
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SCALE 1:100 (A1) 1:200 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

ENGINEERING CERTIFICATION						
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25
No.	Amendments	Drawn	Design	Design Chk	Appd	Date
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Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation

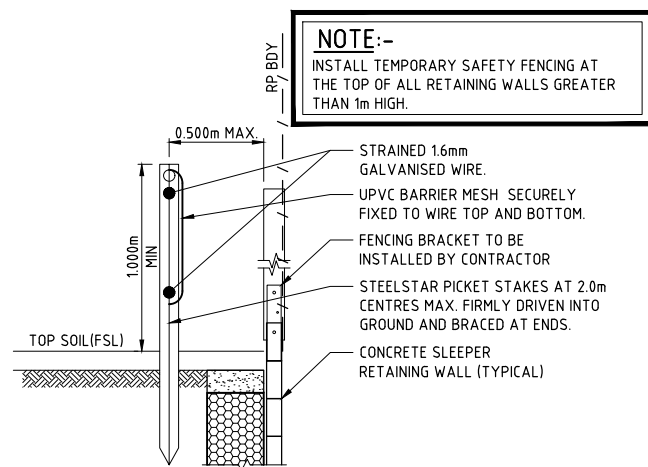


Client	URBEX PTY LTD	Datum	AHD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	PSM	79006
Title	EARTHWORKS CROSS SECTIONS SHEET 2 OF 2	RL	67.474 (RCC) COORD
Project No.	B00702-DA-CE07	Drawing No.	
Rev	C		

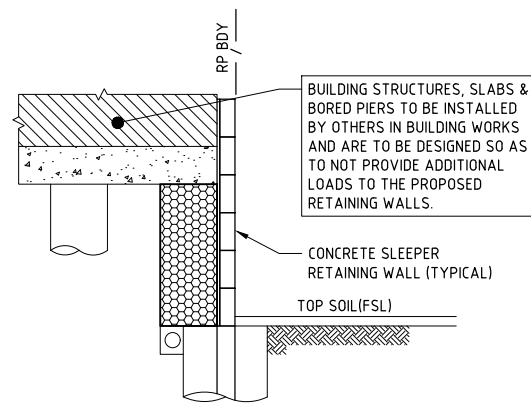


▲ EXACT POST LOCATIONS AND SPACING TO BE DETERMINED BY CONTRACTOR DESIGNS TO MEET SPECIFIC LOT REQUIREMENTS. LONG SECTIONS PROVIDED ARE TO BE USED AS A GUIDE FOR WALL LEVELS.

TYPICAL RETAINING WALL ELEVATION INTER-ALLOTMENT SIDE WALLS

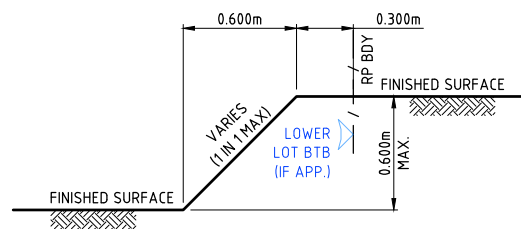


TEMPORARY SAFETY BARRIER TO RETAINING WALLS TYPICAL SECTION

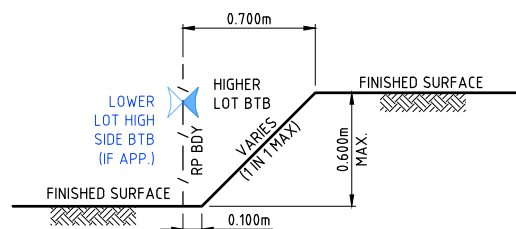


BUILD TO BOUNDARY TYPICAL SECTION

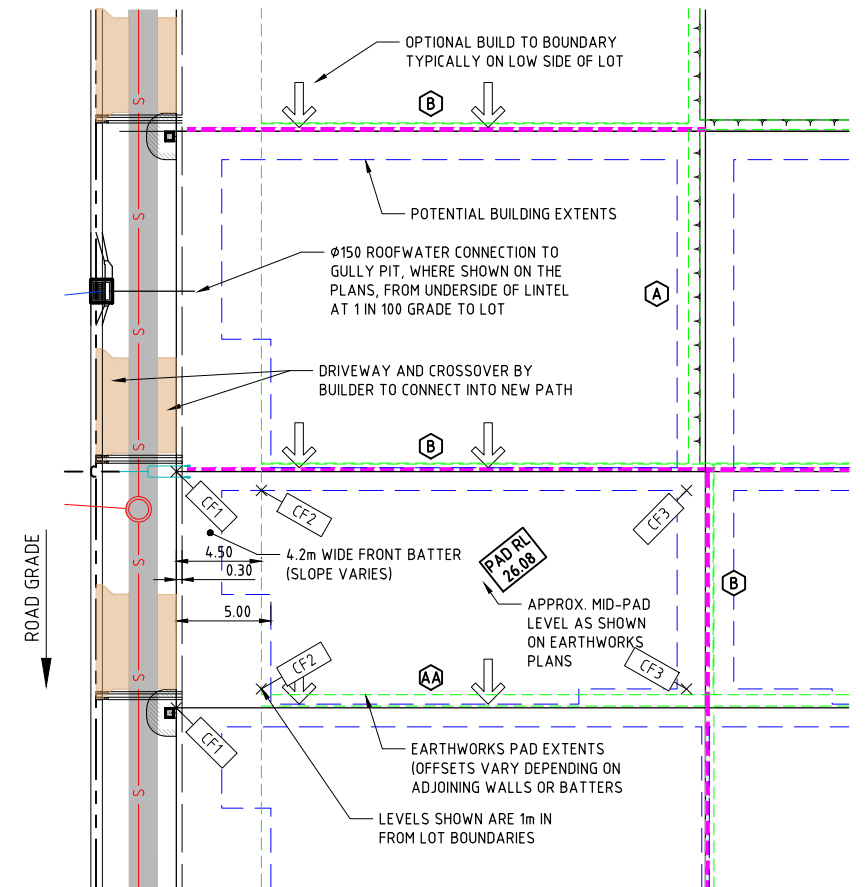
RETAINING WALL DESIGN IS INDICATIVE ONLY. DESIGN AND CONSTRUCTION OF ALL RETAINING WALLS TO BE UNDERTAKEN BY CONTRACTOR.



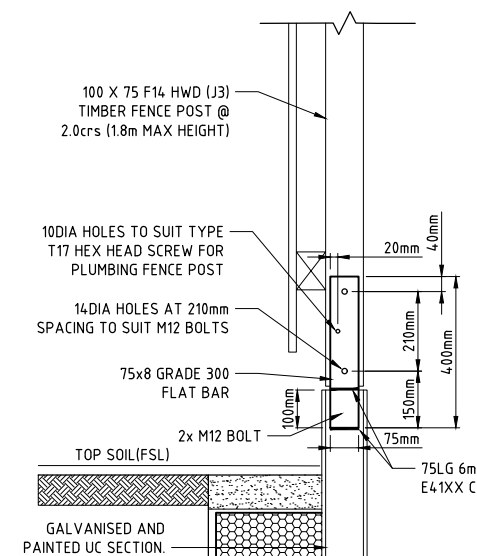
SECTION (NON-ZERO BATTERY OR REAR BOUNDARY)



SECTION (ZERO-BOUNDARY)



TYPICAL EARTHWORKS PAD SETOUT



FENCING BRACKET TYPICAL DETAIL

NOTE:- REFER NEXT SHEET FOR RETAINING WALL NOTES AND ADDITIONAL SECTIONS

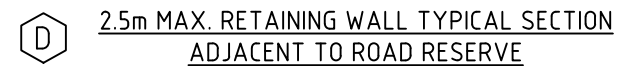
PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



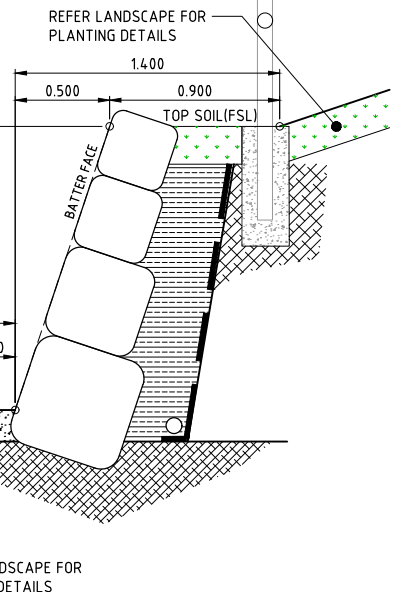
ENGINEERING CERTIFICATION					
Peter Ingelman					
Registered Engineer					
Date 19/6/2026					
9424					
Registered Accreditation					



Client	URBEX PTY LTD			Datum	AHD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL			PSM 79006	RL 67.474
Title	RETAINING WALL TYPICAL DETAILS 1 OF 2			(RCC) COORD	
Project No.		Drawing No.	Rev	NOT FOR CONSTRUCTION	
B00702-DA-RW01		C			



PROPOSED FENCING IN _____
ACCORDANCE WITH LANDSCAPE
PLANS. FENCE TO RETURN AT
EITHER END TO PREVENT
ACCESS TO TOP OF WALLS.



100 MIN.

200

200

500 MIN.

250

250

BASE OF CONCRETE SLEEPER RETAINING WALL

N32 CONCRETE WITH SL81 MESH (TOP - 65mm COVER, BOTTOM - 65mm COVER)

1m (W minimum depending on trench)

1m (L minimum depending on angle of crossing) 0.2m (H)

GRAVEL COMPACTED IN ACCORDANCE WITH THE RELEVANT AUST STANDARD TO 98% R.D.D. 100mm COMPRESSIBLE FILL AROUND PIPE.

BRIDGING SLAB TO BE KEYED A MINIMUM OF 250mm INTO TRENCH WALLS

TRENCH

0.500

65mm COVER)
1m (W minimum depending on trench)
1m (L minimum depending on angle
of crossing) 0.2m (H)

ING WALL

RIDGING SLAB
TO BE KEYED A
MINIMUM OF
100mm INTO
RETAINING WALLS

DETAIL

2.000

0.500

0.900

150mm MAX.

0.600

0.300

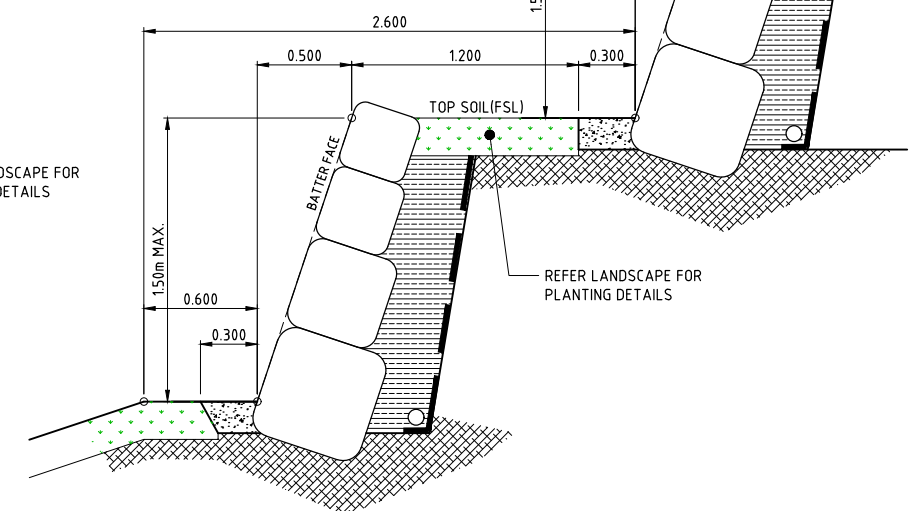
BATTER FACE

TOP SOIL (FSL)

REFER LANDSCAPE FOR
PLANTING DETAILS

PROPOSED FENCING IN
ACCORDANCE WITH LANDSCAPE
PLANS. FENCE TO RETURN AT
EITHER END TO PREVENT
ACCESS TO TOP OF WALLS.

 1.5m MAX. SANDSTONE RETAINING WALL IN
PARK / DRAINAGE RESERVE - TYPICAL SECTION

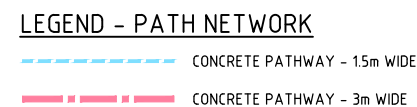
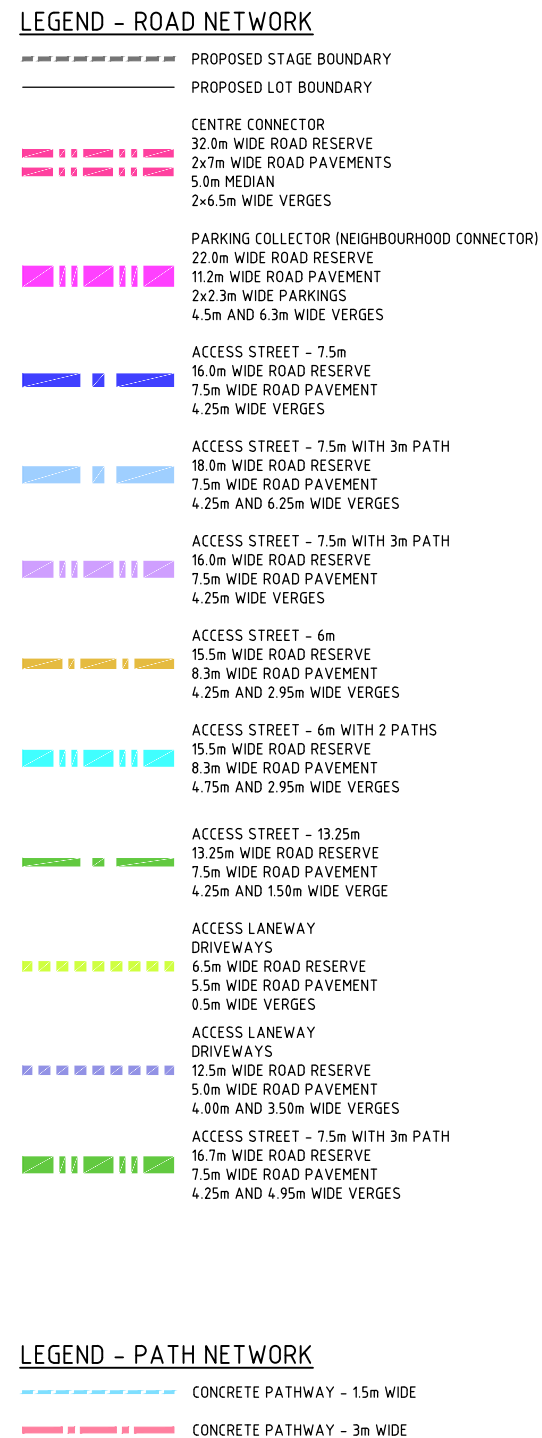


 2-TIER 3m MAX. SANDSTONE RETAINING WALL IN
PARK / DRAINAGE RESERVE - TYPICAL SECTION

								ENGINEERING CERTIFICATION
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	 Registered Engineer	
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	Date 19/6/2026	
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	9424	
No.	Amendments	Drawn	Design	Design Chk	Appd	Date	Registered Accreditation	

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PATH NETWORK LAYOUT

SCALE 1:2000 (A1) 1:4000(A3)

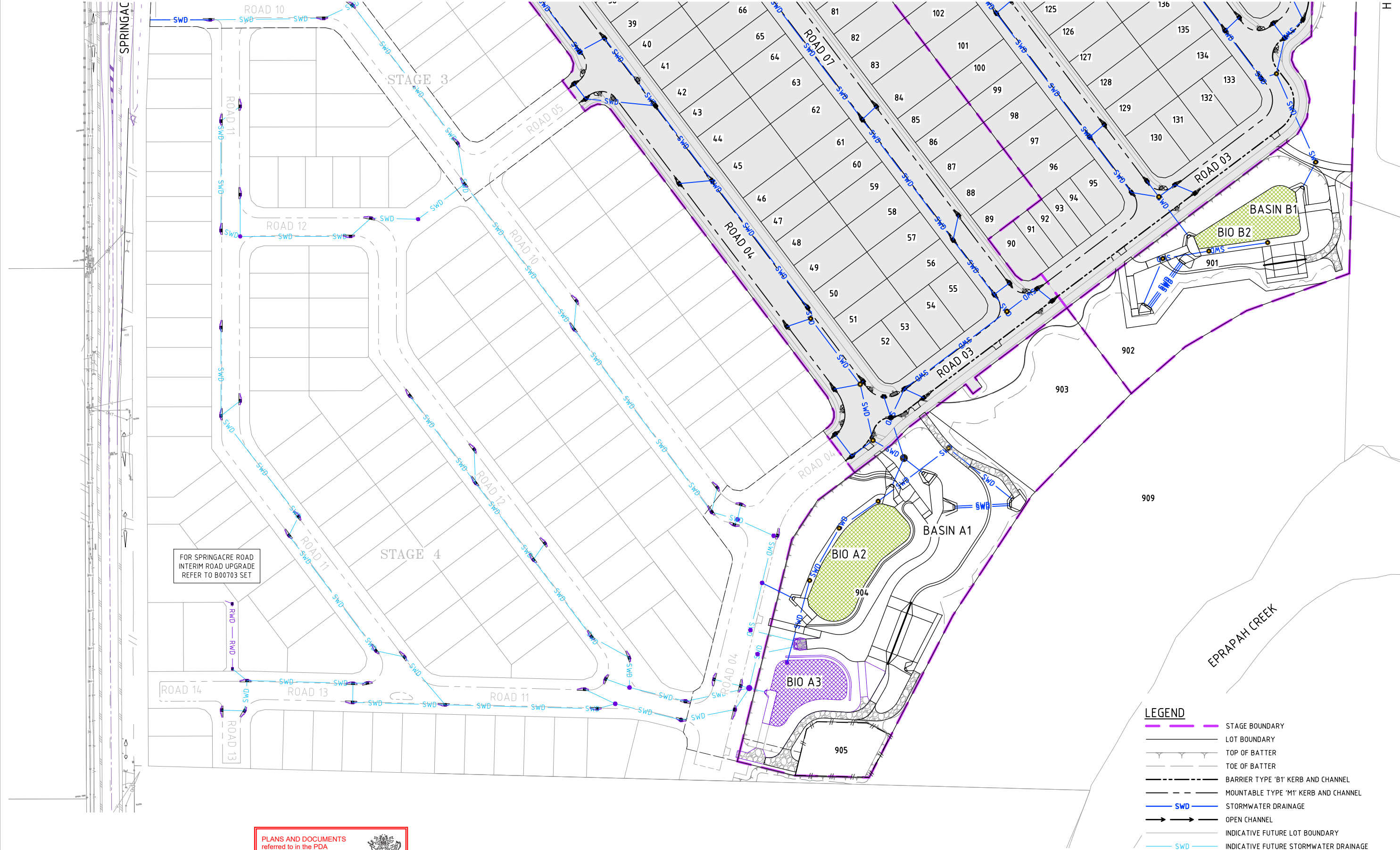


										ENGINEERING CERTIFICATION
D	CENTRE CONNECTOR ROAD PATH WIDTHS AMENDED				ES	PDW	PI	PI	29/07/26	 Registered Engineer Date 29/7/2026
C	MINOR AMENDMENTS				ES	PDW	PI	PI	19/06/26	
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDA CONDITIONS				ES	PDW	PDW	PI	18/06/26	
A	ORIGINAL ISSUE				ES	PDW	PDW	PI	12/12/25	
No.	Amendments				Drawn	Design	Design Chk	Appd	Date	Registered Accreditation
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<i>Client</i>	URBEX PTY LTD
<i>Project</i>	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL
<i>Title</i>	ROAD NETWORK LAYOUT

Datum AHD PSM 79006 RL 67.474 (RCC) COORD		
NOT FOR CONSTRUCTION		
Project No. B00702-DA-CR01	Drawing No. D	Rev D



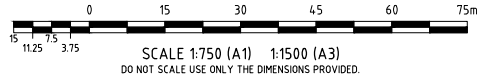
- LEGEND**
- STAGE BOUNDARY
 - LOT BOUNDARY
 - TOP OF BATTER
 - TOE OF BATTER
 - BARRIER TYPE 'B1' KERB AND CHANNEL
 - MOUNTABLE TYPE 'M1' KERB AND CHANNEL
 - STORMWATER DRAINAGE
 - OPEN CHANNEL
 - INDICATIVE FUTURE LOT BOUNDARY
 - INDICATIVE FUTURE STORMWATER DRAINAGE

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039

Date: 17 August 2026

Queensland Government



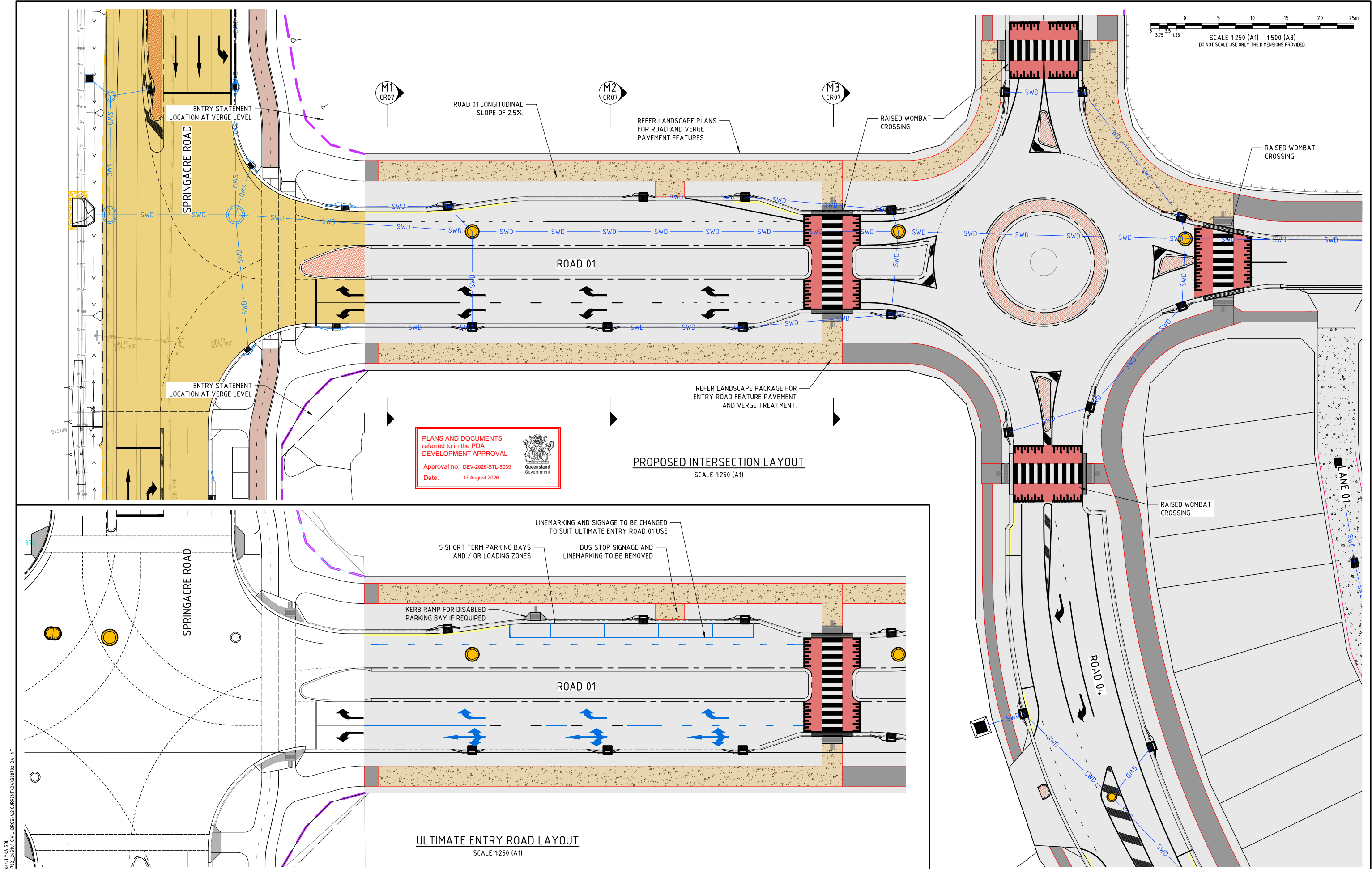
ENGINEERING CERTIFICATION						
<i>Peter Ingerman</i> Registered Engineer						
Date 19/6/2026						
9424						
Registered Accreditation						



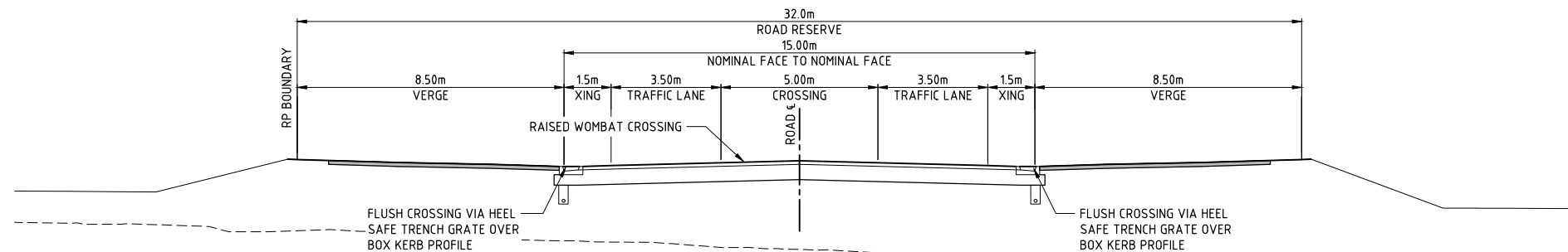
Client	URBEX PTY LTD		Datum	AHD	
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		PSM 79006	RL 67.474	
Title	ROADWORKS AND DRAINAGE PLAN		NOT FOR CONSTRUCTION		
	SHEET 2 OF 2		Project No.	Drawing No.	Rev
			B00702-DA-CR04		C

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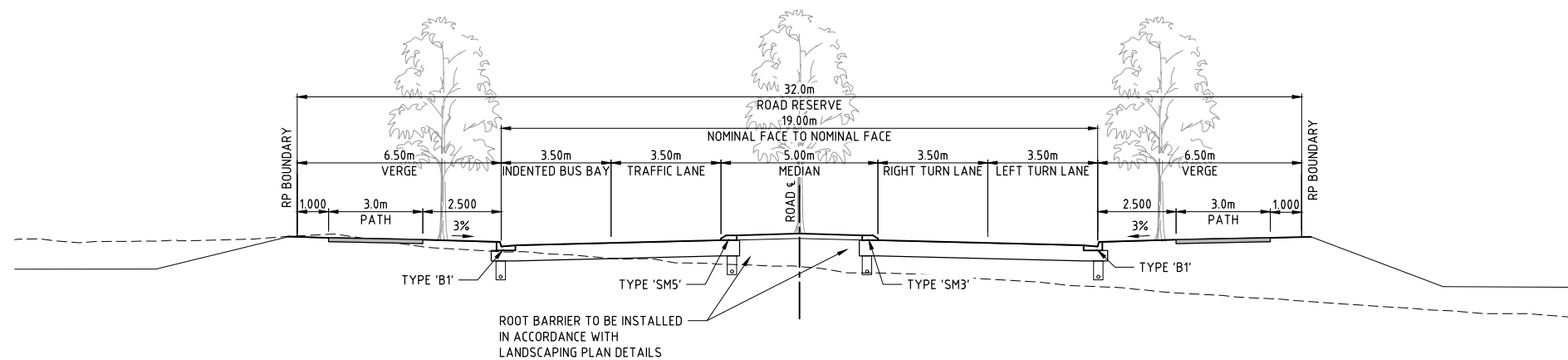
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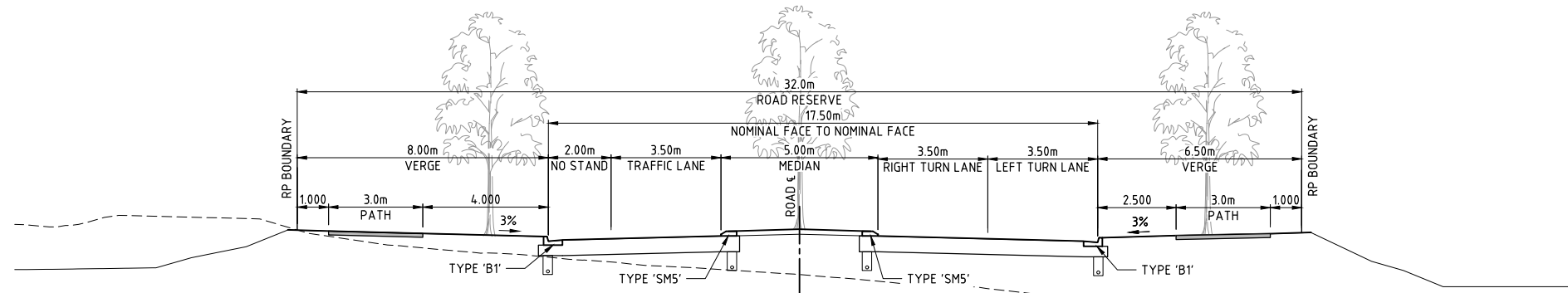
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D	CENTRE CONNECTOR ROAD PATH WIDTHS AMENDED										ES	PDW	PI	PI	29/07/26	 Peter Angelman Registered Engineer Date 29/7/2026 9424 Registered Accreditation			Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL										Title	ENTRY ROAD INTERSECTION DETAILS										NOT FOR CONSTRUCTION	Project No.	Drawing No.	Rev																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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M3
CR06 CENTRE CONNECTOR
SCALE 1:100 (A1) 1:200(A3)

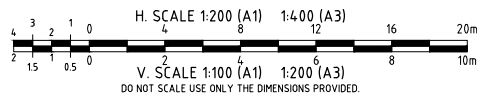


M2
CR06 CENTRE CONNECTOR
SCALE 1:100 (A1) 1:200(A3)



M1
CR06 CENTRE CONNECTOR
SCALE 1:100 (A1) 1:200(A3)

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026

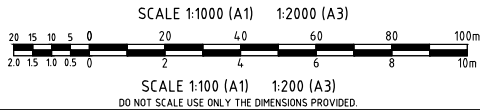
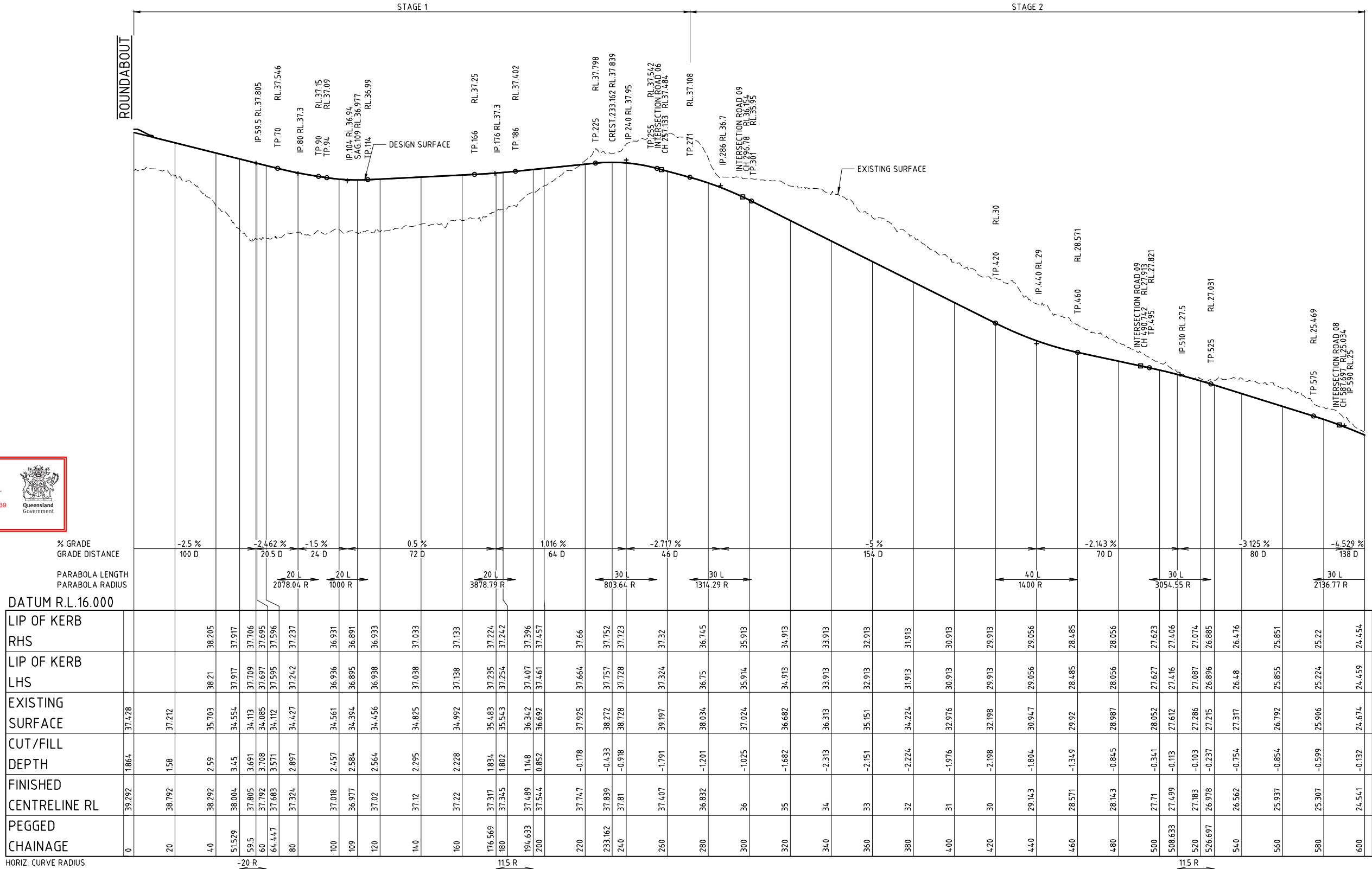


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C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	<i>Peter Angerman</i> Registered Engineer Date 29/7/2026
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	9424
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	Registered Accreditation
No.	Amendments	Drawn	Design	Design Chk	Appd	Date	

		Client URBEX PTY LTD	Datum AHD PSM 79006 RL 67.474 (RCC) COORD
		Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	NOT FOR CONSTRUCTION
		Title ENTRY ROAD SECTIONS	Project No. B00702-DA-CR07
			Drawing No. D
			Rev

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PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



ENGINEERING CERTIFICATION

Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



Client URBEX PTY LTD

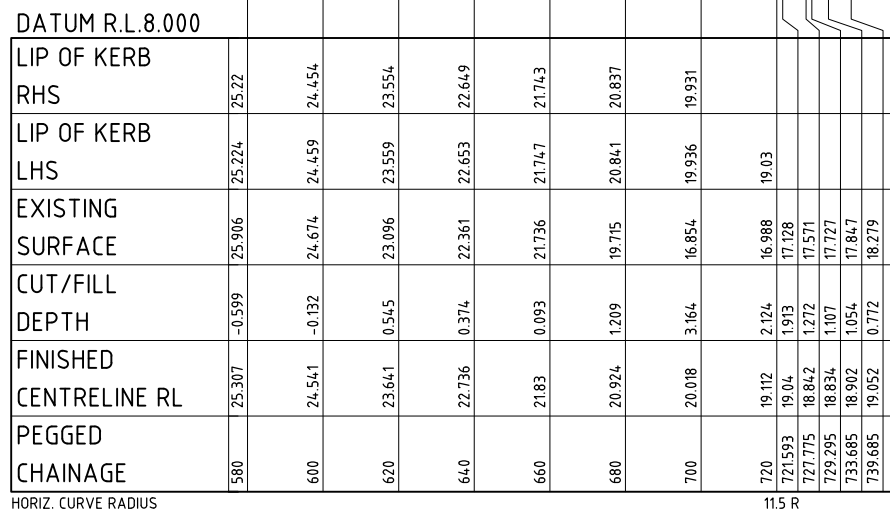
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Title ROAD LONGITUDINAL SECTION
SHEET 2 OF 6

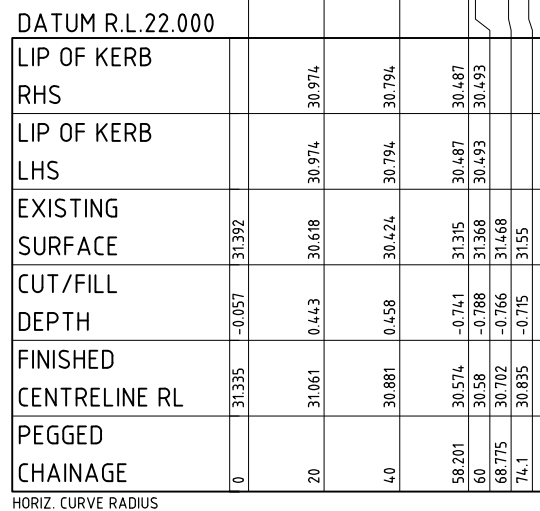
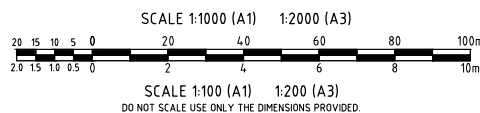
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PSM 79006
RL 67.474
(RCC) COORD

NOT FOR CONSTRUCTION

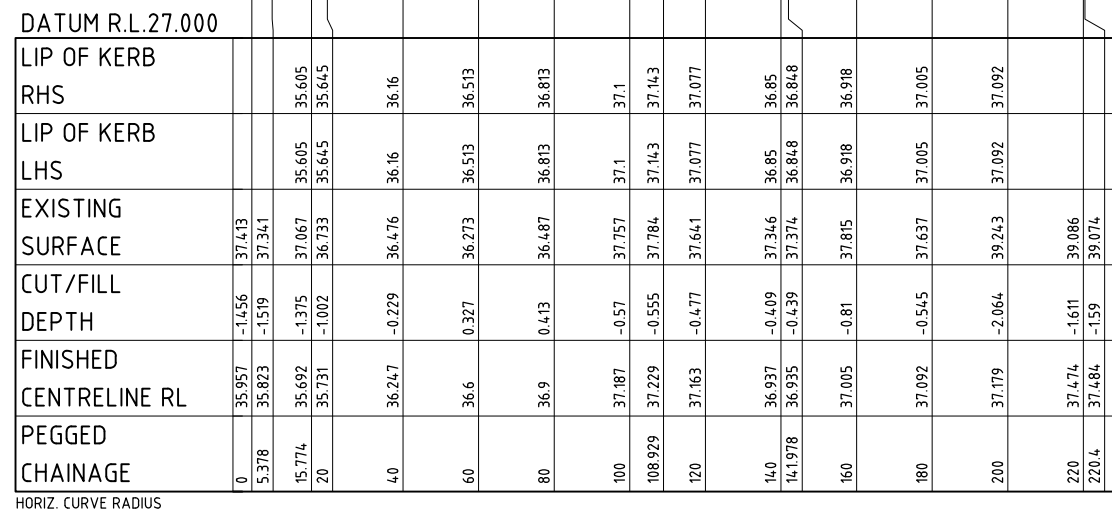
Project No. Drawing No. Rev
B00702-DA-CR09 C



SCALE 1:100(VERT.) SCALE 1:1000(HORIZ.)



SCALE 1:100(VERT.) SCALE 1:1000(HORIZ.)



SCALE 1:100(VERT.) SCALE 1:1000(HORIZ.)

DO NOT SCALE OR GUESS THE DIMENSIONS PROVIDED										ENGINEERING CERTIFICATION	
											
C	MINOR AMENDMENTS					ES	PDW	PI	PI	19/06/26	Registered Engineer
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS					ES	PDW	PDW	PI	18/06/26	Date 19/6/2026
A	ORIGINAL ISSUE					ES	PDW	PDW	PI	12/12/25	9424
No.	Amendments					Drawn	Design	Design Chk	Appd	Date	Registered Accreditation

ENGINEERING CERTIFICATION

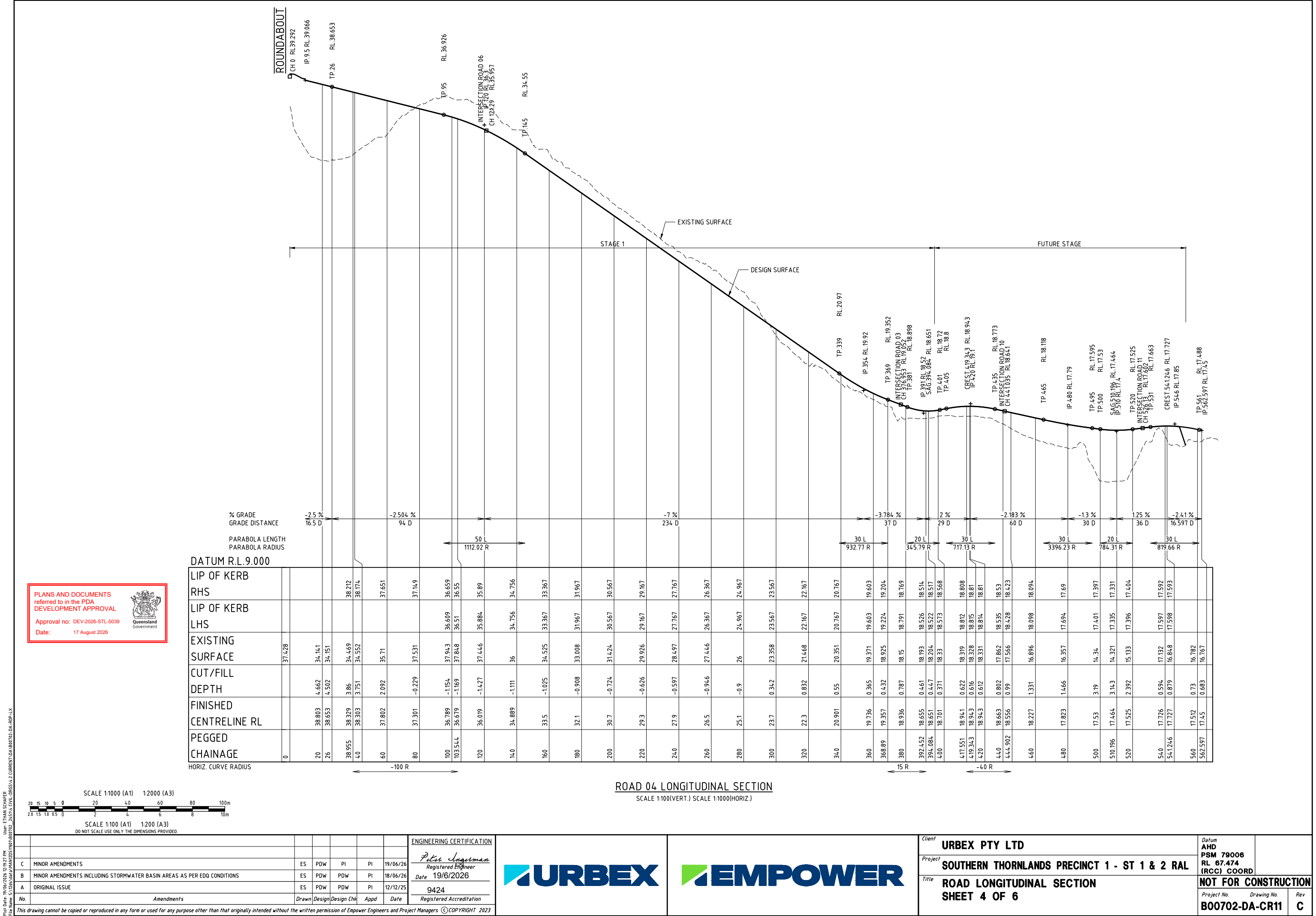
Peter Ingelman
Registered Engineer

Date 19/6/2026

9424
Registered Accreditation



<i>Client</i>	URBEX PTY LTD	<i>Datum</i>	AHD	
<i>Project</i>	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		PSM 79006	
			RL 67.474	
			(RCC) COORD	
<i>Title</i>	ROAD LONGITUDINAL SECTION	NOT FOR CONSTRUCTION		
	SHEET 3 OF 6	<i>Project No.</i>	<i>Drawing No.</i>	<i>Rev</i>
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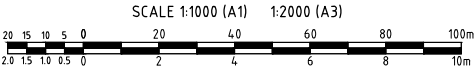


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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039

Date: 17 August 2026



SCALE 1:100 (A1) 1:200 (A3)

DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

ENGINEERING CERTIFICATION

Peter Ingelman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



Client
URBEX PTY LTD

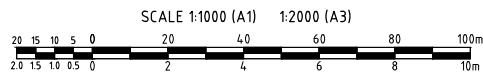
Project
SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL

Title
**ROAD LONGITUDINAL SECTION
SHEET 4 OF 6**

Datum
**AHD
PSM 79006
RL 67.474
(RCC) COORD**

NOT FOR CONSTRUCTION

Project No. Drawing No. Rev
B00702-DA-CR11 C



SCALE 1:100 (A1) 1:200 (A3)
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Project No.	Drawing No.	Rev
B00702-DA-CR12		C





	LIP OF KERB RHS	LIP OF KERB LHS	EXISTING SURFACE	CUT/FILL DEPTH	FINISHED CENTRELINE RL	PEGGED CHAINAGE
0	36.154	-0.888	37.042			
15 R						
19.474						
20	35.455	-1.636	37.092	35.373	35.362	
29.545	35.431	-1.702	37.133	35.349	35.337	
4.0	34.999	-1.755	36.754	34.917	34.907	
4.0	34.526	-1.562	36.088	34.444	34.439	
60						
	33.621	-1.159	34.78	33.538	33.534	
80						
	32.716	-0.304	33.02	32.633	32.629	
100						
	31.81	-0.111	31.922	31.728	31.724	
120						
	30.905	0.403	30.502	30.823	30.818	
133.478						
14.0	30.336	0.988	29.348	30.254	30.243	
151.542	30.128	1.235	28.893	30.031	30.019	
160						
	29.879	1.271	28.607	29.796	29.785	
160	29.778	1.343	28.435	29.695	29.691	
180						
	29.556	1.054	28.502	29.473	29.469	
200						
	29.333	0.73	28.603	29.251	29.246	
220						
	29.111	0.542	28.569	29.029	29.024	
240						
	28.802	0.23	28.573	28.72	28.716	
260						
	28.407	-0.012	28.419	28.325	28.32	
280						
	28.012	-0.093	28.106	27.93	27.925	
284.66	27.92	-0.075	27.995	27.838	27.833	
15 R						
298.15						
	27.656	-0.529	28.185	27.573	27.569	
300	27.636	-0.578	28.214	27.553	27.549	
300.532	27.63	-0.54	28.17	27.548	27.543	
315.617	27.913	-0.66	28.572			

SCALE 1:1000 (A1) 1:2000 (A3)

20 15 10 5 0 20 40 60 80 100m
2.0 1.5 1.0 0.5 0 2 4 6 8 10m

SCALE 1:1000 (A1) 1:2000 (A3)

DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.



HORIZ. CURVE RADIUS		EDGE OF CONCRETE RHS	EDGE OF CONCRETE LHS	EXISTING SURFACE	CUT/FILL DEPTH	FINISHED CENTRELINE RL	PEGGED CHAINAGE
-10 R	0			35.458			
	20	38.662	38.662	34.727	3.866	38.593	
	22	38.674	38.674	34.643	3.962	38.605	
	27.294	38.59	38.59	34.543	3.978	38.521	
	28.927	38.541	38.541	34.533	3.939	38.472	
	4.0	38.209	38.209	35.257	2.883	38.14	
-10 R	56.003	37.509	37.509	36.217	1.223	37.44	
	58.872	37.366	37.366	36.493	0.805	37.297	
	60	37.313	37.313	36.584	0.66	37.244	
-10 R	74.178	36.829	36.829	36.818	-0.057	36.761	
	76.134	36.772	36.772	36.869	-0.166	36.703	
	80	36.658	36.658	36.701	-0.112	36.589	
	92.334			36.374			

SCALE 1:1000 (A1) 1:2000 (A3)

20 15 10 5 0 20 40 60 80 100m
2.0 1.5 1.0 0.5 0 2 4 6 8 10m

SCALE 1:1000 (A1) 1:2000 (A3)

DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

 	Client URBEX PTY LTD	Datum AHD PSM 79006 RL 67.474 (RCC) COORD						
	Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL							
	Title ROAD LONGITUDINAL SECTION SHEET 6 OF 6	NOT FOR CONSTRUCTION <table><tr><td><i>Project No.</i></td><td><i>Drawing No.</i></td><td><i>Rev</i></td></tr><tr><td>B00702-DA-CR13</td><td></td><td>C</td></tr></table>		<i>Project No.</i>	<i>Drawing No.</i>	<i>Rev</i>	B00702-DA-CR13	
<i>Project No.</i>	<i>Drawing No.</i>	<i>Rev</i>						
B00702-DA-CR13		C						

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User: ETHAN SCHAEFER

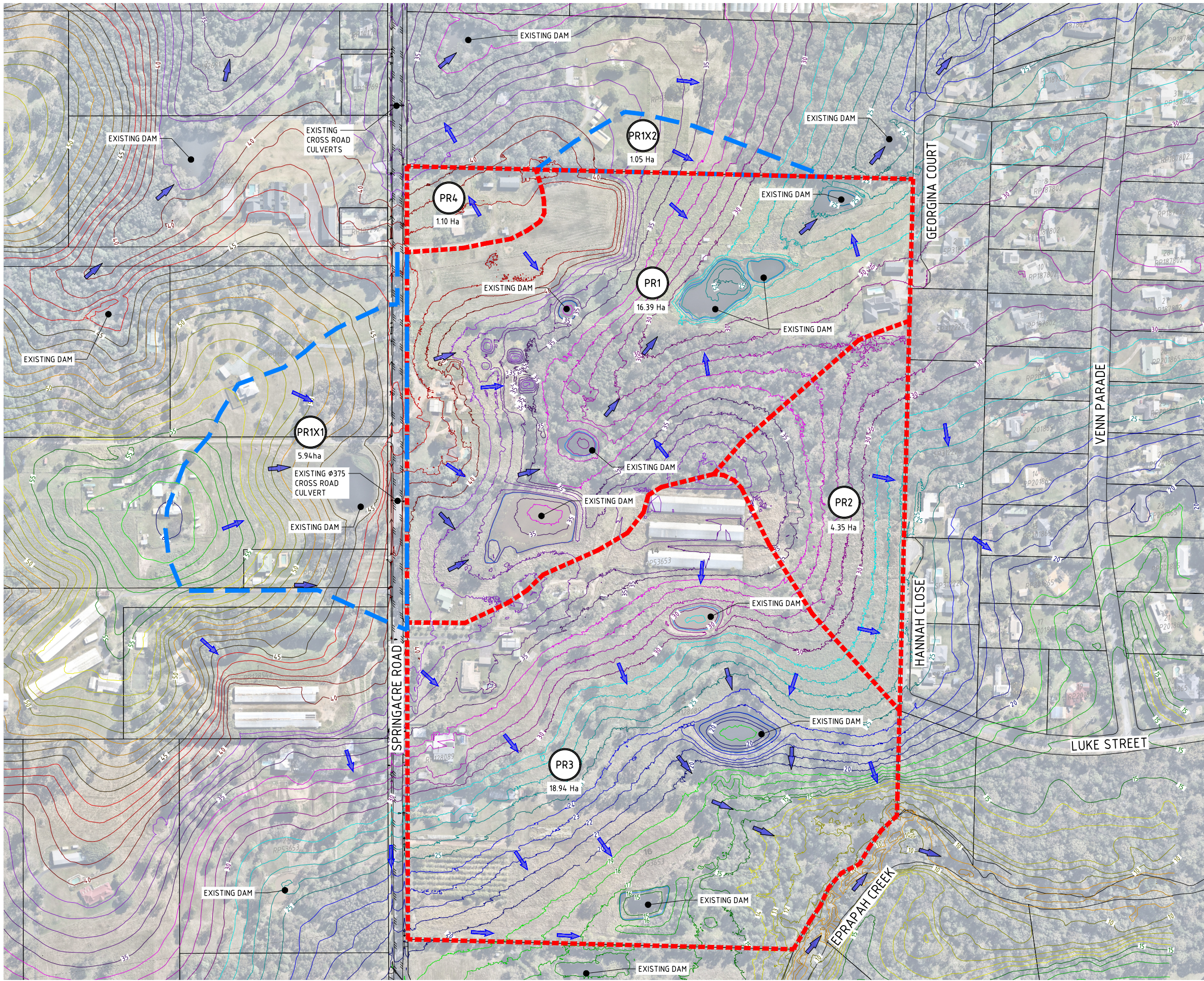
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	<i>Peter Angerman</i> Registered Engineer Date 19/6/2026
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	9424
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	Registered Accreditation
No.	Amendments	Drawn	Design	Design	Chk	Appd	Date

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ENGINEERING CERTIFICATION
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026
9424
Registered Accreditation



Client	URBEX PTY LTD	Datum	AHD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	PSM	79006
Title	PRE DEVELOPMENT CATCHMENT PLAN	RL	67.474
		(RCC) COORD	
		Project No.	B00702-DA-SW01
		Drawing No.	C
		Rev	



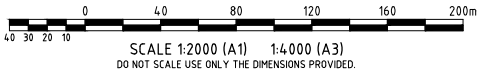
CATCHMENT TABLE			
INTERNAL		EXTERNAL	
CATCHMENT No.	AREA (Ha)	CATCHMENT NO.	AREA (Ha)
PR1	16.39 Ha	PR1X1	5.94 Ha
PR2	4.35 Ha	PR1X2	1.05 Ha
PR3	18.94 Ha		
PR4	1.10 Ha		

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



LEGEND

- EXISTING CONTOURS
- LOT BOUNDARY
- INTERNAL STORMWATER CATCHMENT
- EXTERNAL STORMWATER CATCHMENT
- PR1 CATCHMENT NUMBER
- STORMWATER OVERLAND FLOW
- CONCENTRATED STORMWATER FLOW



Plot Date: 19/06/2026 12:20:31 PM
File Name: S:\1026\Urban\MAN\2025\101\B00702_2451\A CIVIL\BROS\A.2 CURRENT\DA\B00702-DA-SWC-QUAL
User: ETHAN SCHAEFER

- LEGEND**
- 36--- FINISHED SURFACE CONTOURS (0.25m INTERVALS)
 - LOT BOUNDARY
 - BARRIER TYPE KERB AND CHANNEL
 - MOUNTABLE TYPE KERB AND CHANNEL
 - TOP OF BATTER
 - TOE OF BATTER
 - STORMWATER MAINTENANCE HOLE
 - STORMWATER CATCHPITS
 - STORMWATER HEADWALL
 - STORMWATER FIELD INLET
 - SWD --- STORMWATER DRAINAGE
 - OPEN CHANNEL

CATCHMENT TO PROVIDE OWN STORMWATER QUALITY TREATMENT WITHIN THE SITE

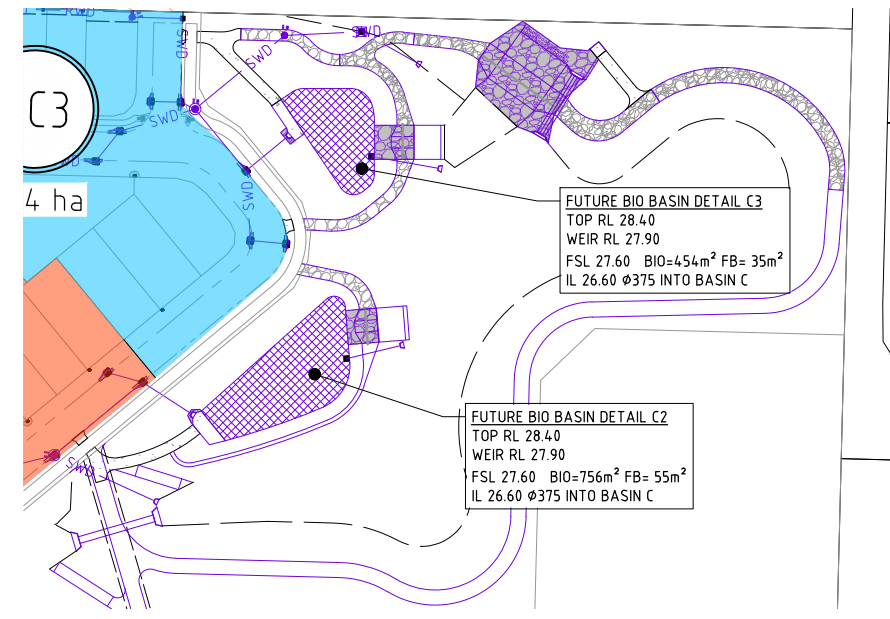
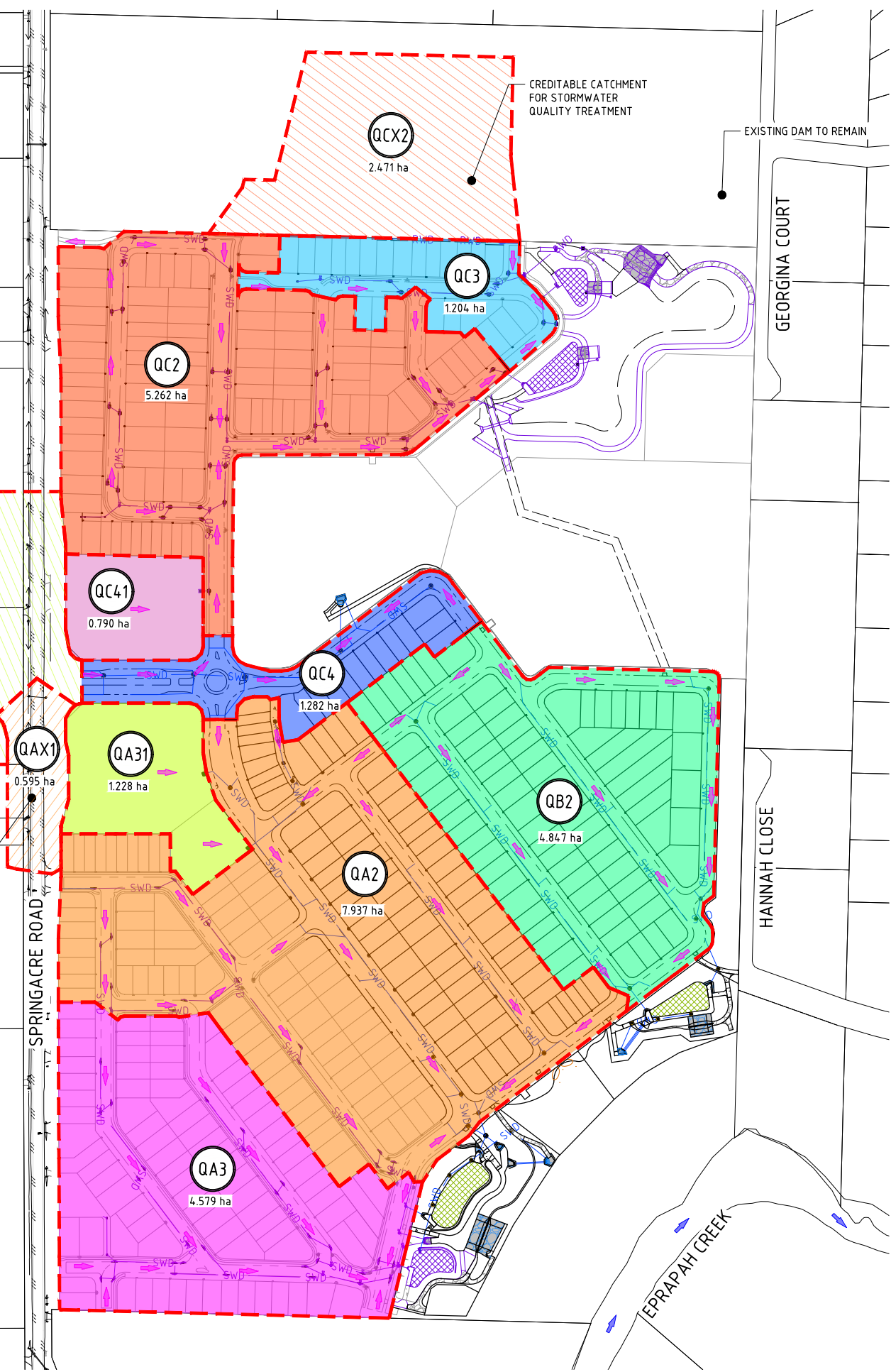
CATCHMENT TO PROVIDE OWN STORMWATER QUALITY TREATMENT WITHIN THE SITE

PIPED FLOWS TO BIO A2

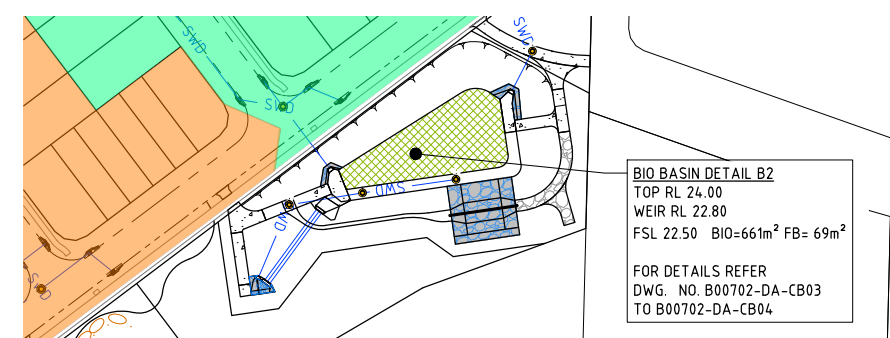
PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



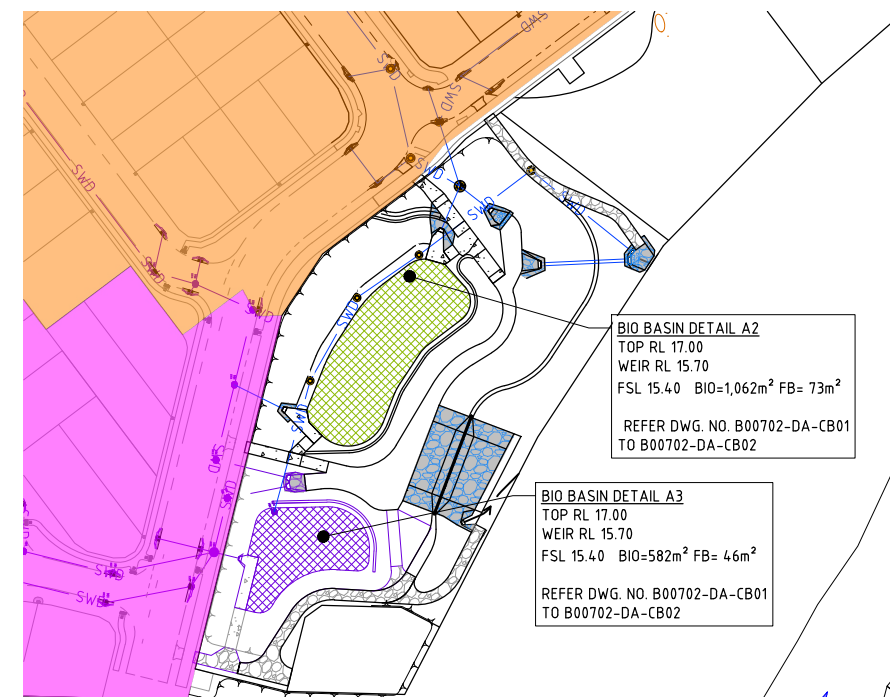
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CATCHMENT No.	AREA (Ha)
INTERNAL	
QA31	1.228
QA2	7.937
QA3	4.579
QB2	4.847
QC3	1.204
QC2	5.262
QC4	1.282
QC41	0.790
EXTERNAL	
QAX1	0.595
QCX1	6.075
QCX2	2.471



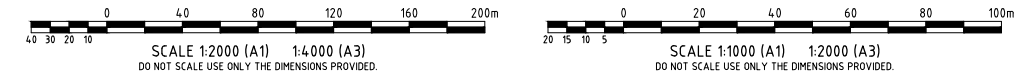
FUTURE BIO BASIN C2 AND C3 LAYOUT DETAIL
SCALE 1:1000(A1)



BIO BASIN B2 LAYOUT DETAIL
SCALE 1:1000(A1)



BIO BASIN A2 AND A3 LAYOUT DETAIL
SCALE 1:1000(A1)



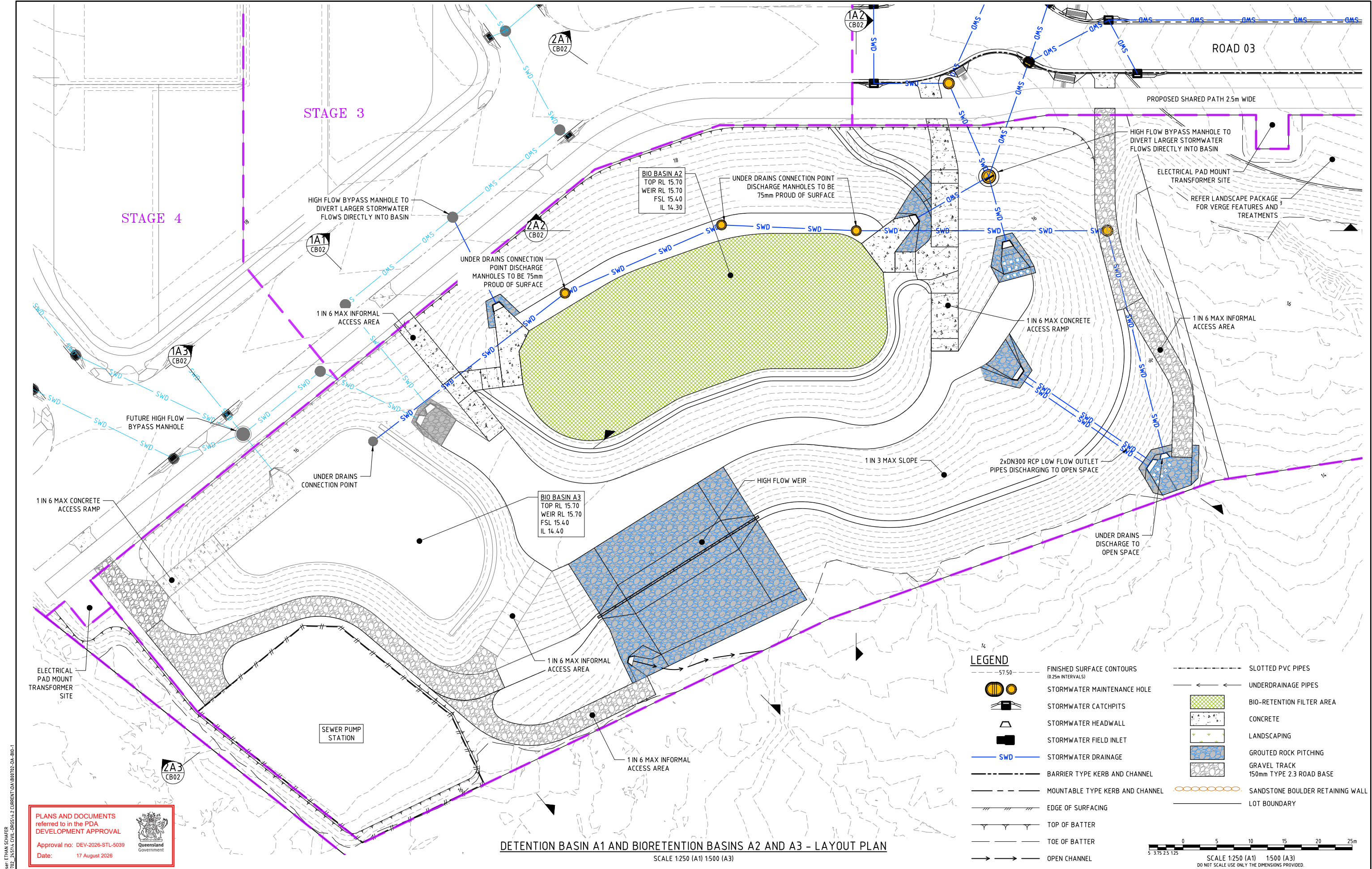
ENGINEERING CERTIFICATION
Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



Client **URBEX PTY LTD**
Project **SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL**
Title **STORMWATER QUALITY CATCHMENT PLAN**

Datum **AHD**
PSM **79006**
RL **67.474**
(RCC) COORD
NOT FOR CONSTRUCTION
Project No. Drawing No. Rev
B00702-DA-SW03 C





PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039

Date: 17 August 2026

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DETENTION BASIN A1 AND BIORETENTION BASINS A2 AND A3 - LAYOUT PLAN

SCALE 1:250 (A1) 1:500 (A3)

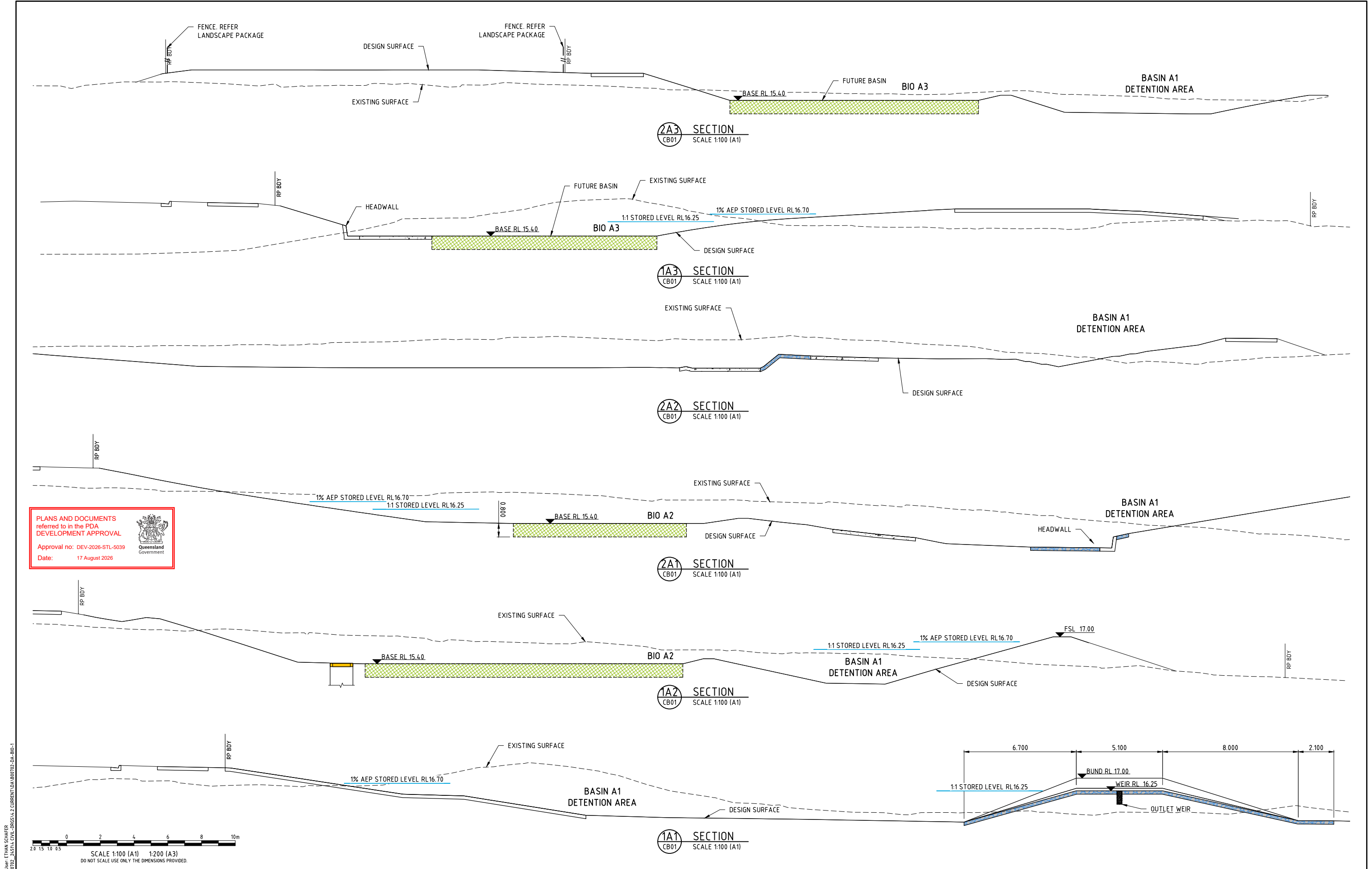
ENGINEERING CERTIFICATION	
<i>Peter Ingelman</i>	
Registered Engineer	
Date 19/6/2026	
9424	
Registered Accreditation	
Project Managers ©COPYRIGHT 2023	



Client	URBEX PTY LTD		Datum AHD PSM 79006 RL 67.474 (RCC) COORD	
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL			
Title	BIORETENTION BASIN A2 AND A3 LAYOUT PLAN		NOT FOR CONSTRUCTION	
	Project No.	Drawing No.	Rev	
	B00702-DA-CB01	C		

Plot Date: 19/06/2026 12:20:44 PM
User: ETHAN SCHAFER
File Name: S:\2026\Urban\MAN\2025\10\B00702_2451\A_CIVIL_DRGS\A2_CURRENT\DA-B00702-DA-B0-1

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Date: 17 August 2026

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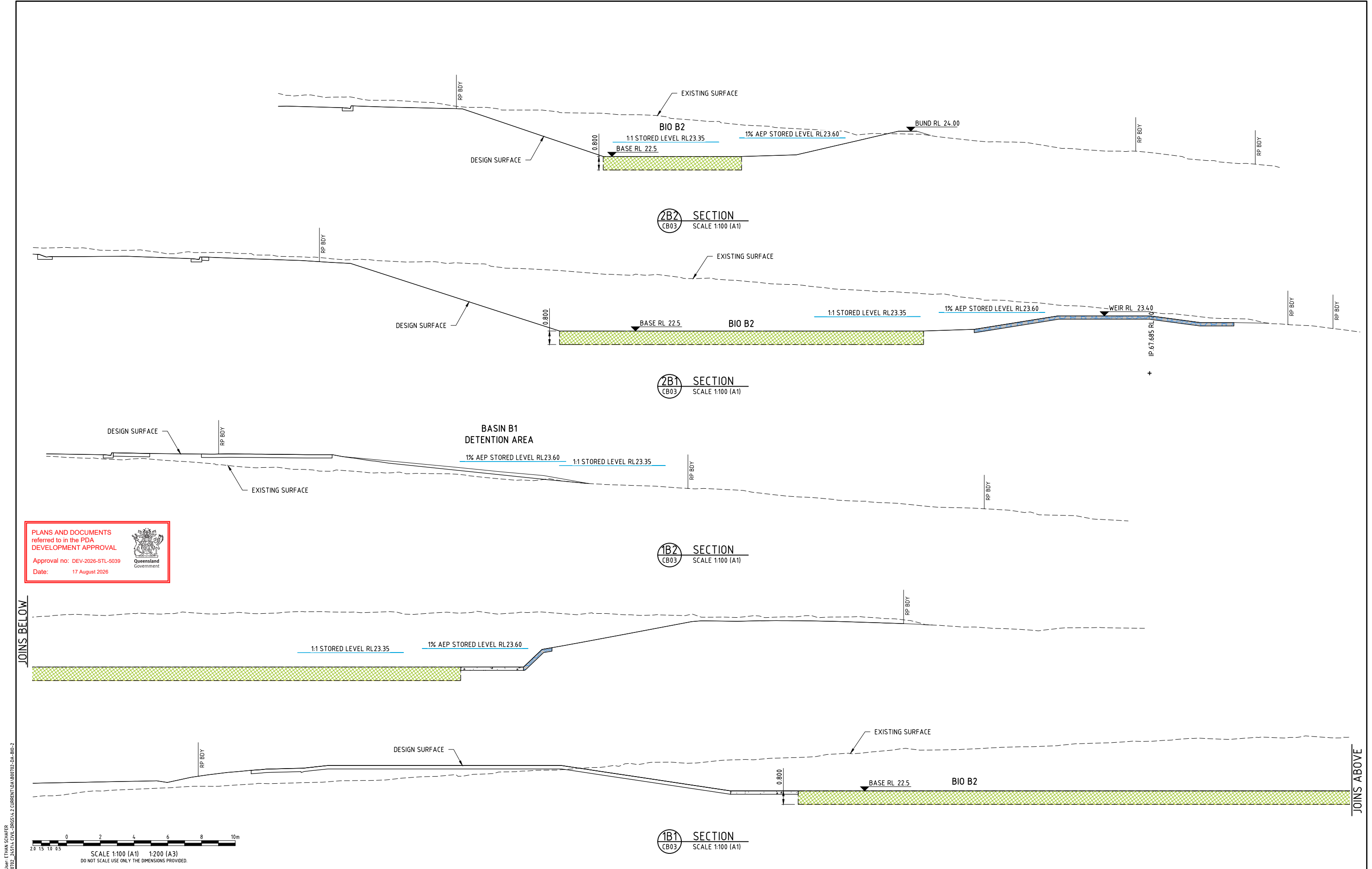
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ENGINEERING CERTIFICATION									
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	<i>Peter Angerman</i> Registered Engineer Date 19/6/2026		
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	9424		
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	Registered Accreditation		
No.	Amendments	Drawn	Design	Design Chk	Appd	Date	This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers ©COPYRIGHT 2023		



Client	URBEX PTY LTD	Datum	AHD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	PSM	79006
Title	BIORETENTION BASIN A2 AND A3 CROSS SECTIONS	RL	67.474 (RCC) COORD
Project No.	B00702-DA-CB02	Drawing No.	
Rev	C		

NOT FOR CONSTRUCTION

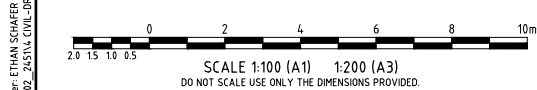


PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



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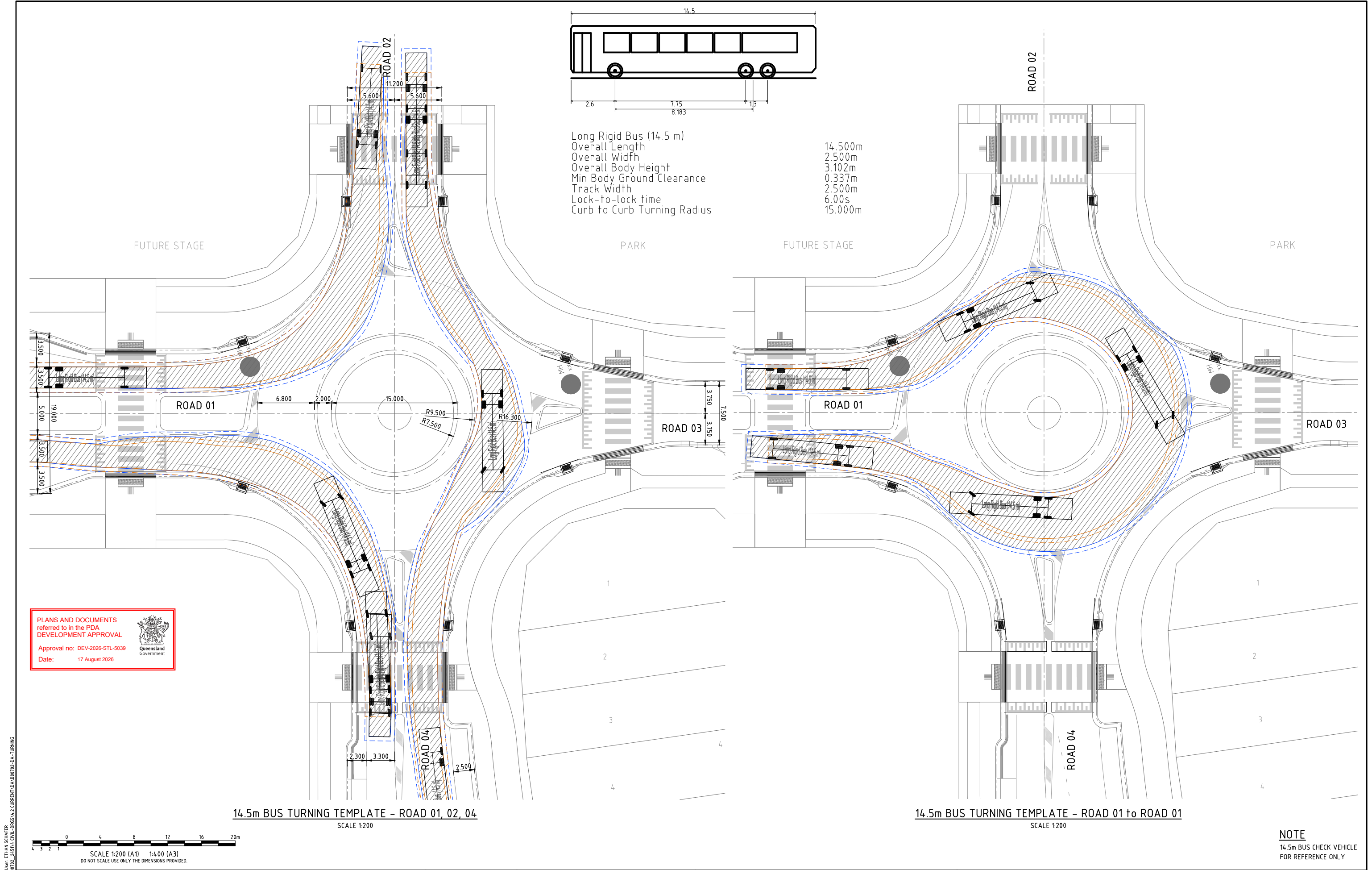
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ENGINEERING CERTIFICATION					
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026					
9424 Registered Accreditation					
No.	Amendments	Drawn	Design	Design Chk	Appd
C	MINOR AMENDMENTS	ES	PDW	PI	PI
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI
A	ORIGINAL ISSUE	ES	PDW	PDW	PI

				Client URBEX PTY LTD		Datum AHD PSM 79006 RL 67.474 (RCC) COORD	
				Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL			
				Title BIORETENTION BASIN B2 CROSS SECTIONS		NOT FOR CONSTRUCTION	
				Project No. B00702-DA-CB04		Drawing No. C	

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DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026
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14.5m BUS TURNING TEMPLATE - ROAD 01, 02, 04
SCALE 1:200

14.5m BUS TURNING TEMPLATE - ROAD 01 to ROAD 01
SCALE 1:200

No.		Amendments	Drawn	Design	Design Chk	Appd	Date	Registered Accreditation
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26	19/06/26	9424
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26	18/06/26	9424
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25	12/12/25	9424

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ENGINEERING CERTIFICATION

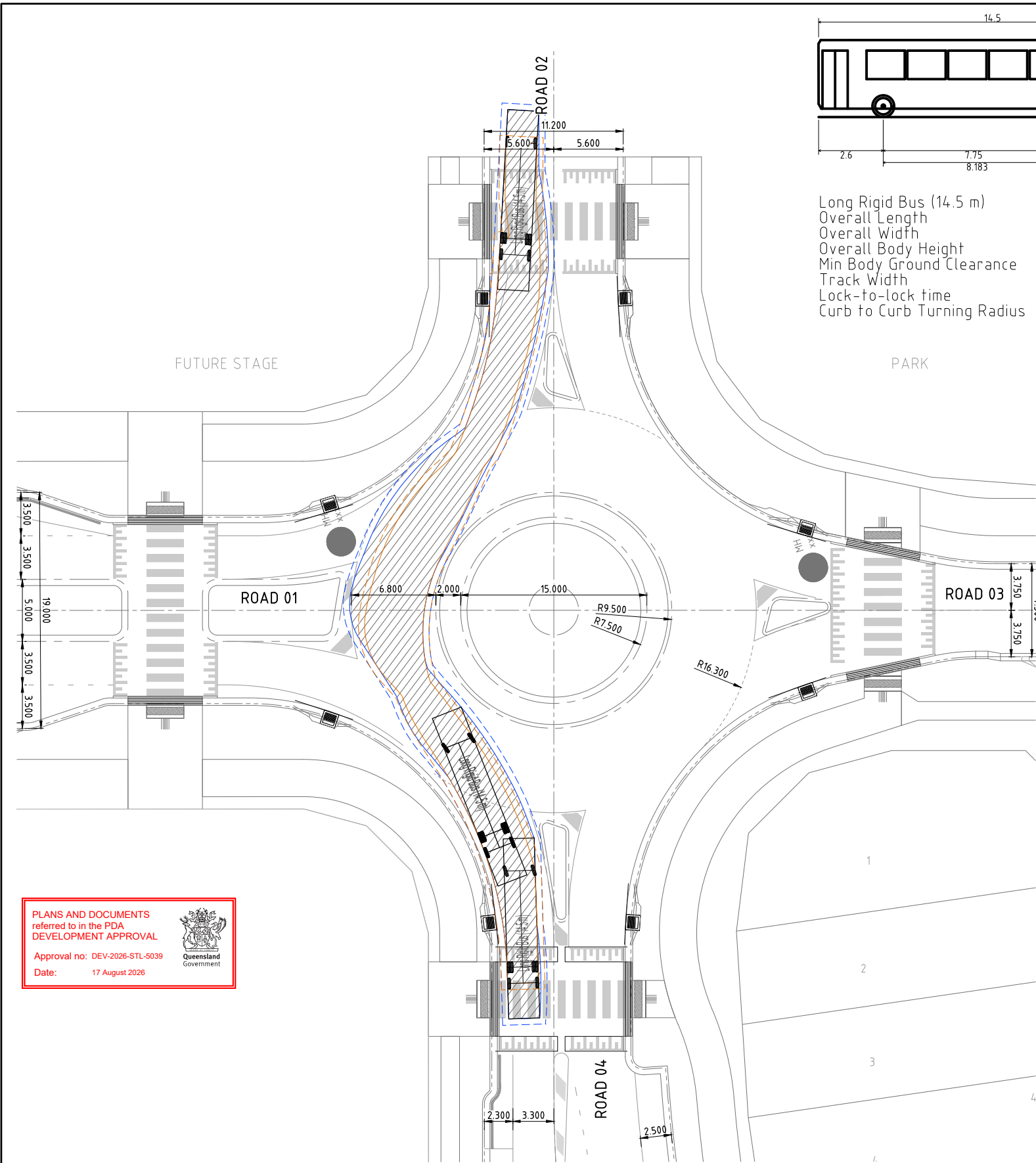
Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



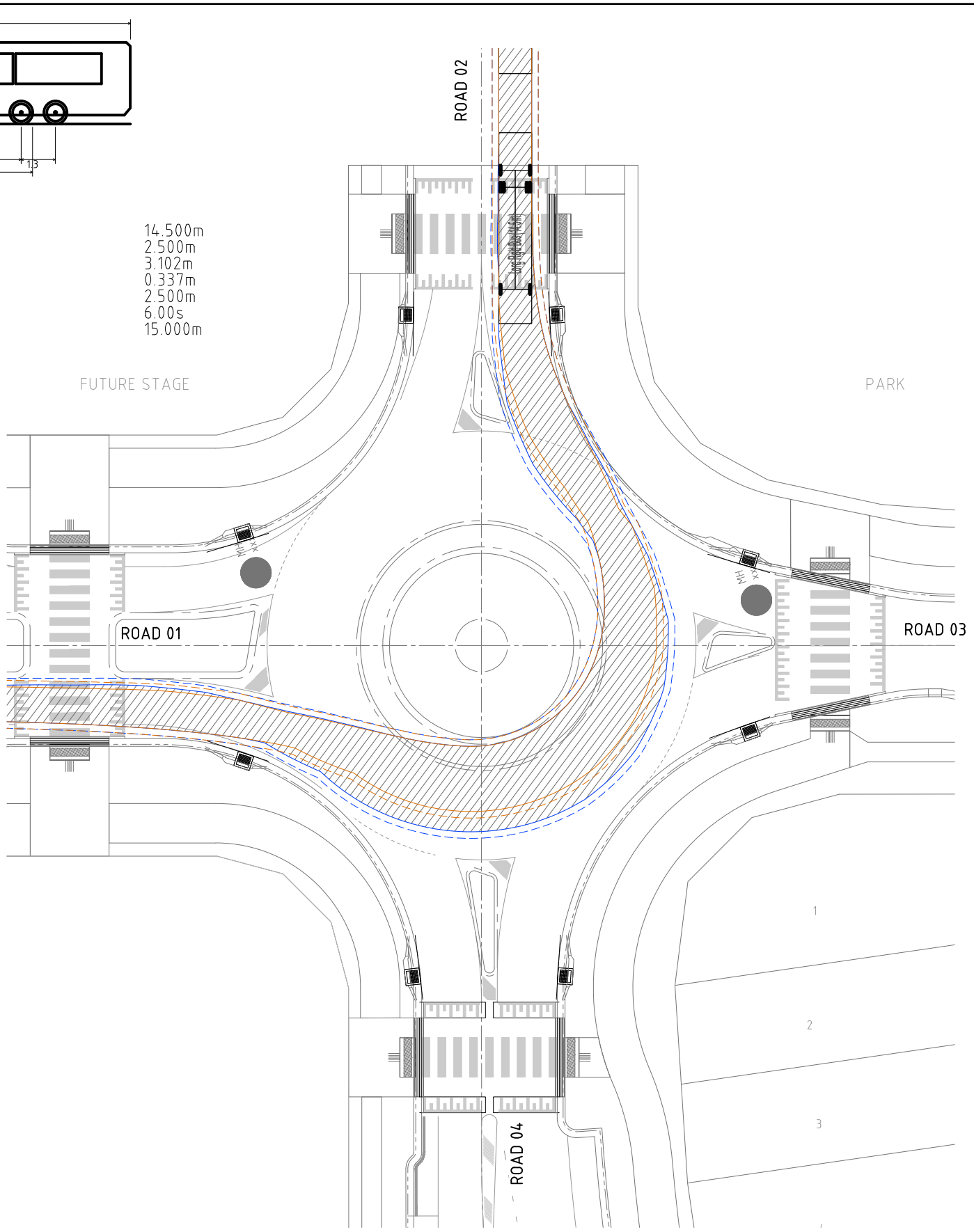
Client	URBEX PTY LTD	Datum	AHD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	PSM	79006
Title	TURNING TEMPLATE DESIGN VEHICLE 14.5M BUS SHEET 1 OF 4	RL	67.474
		(RCC) COORD	
		Project No.	Drawing No.
		B00702-DA-CT01	C

NOTE
14.5m BUS CHECK VEHICLE
FOR REFERENCE ONLY



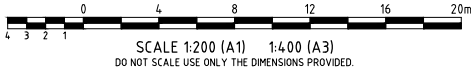


14.5m BUS TURNING TEMPLATE - ROAD 04 to ROAD 02
SCALE 1:200



14.5m BUS TURNING TEMPLATE - ROAD 02 to ROAD 01
SCALE 1:200

PLANS AND DOCUMENTS
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Approval no: DEV-2026-STL-5039
Date: 17 August 2026
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NOTE
14.5m BUS CHECK VEHICLE
FOR REFERENCE ONLY

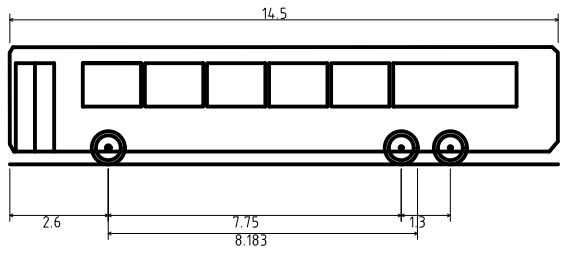
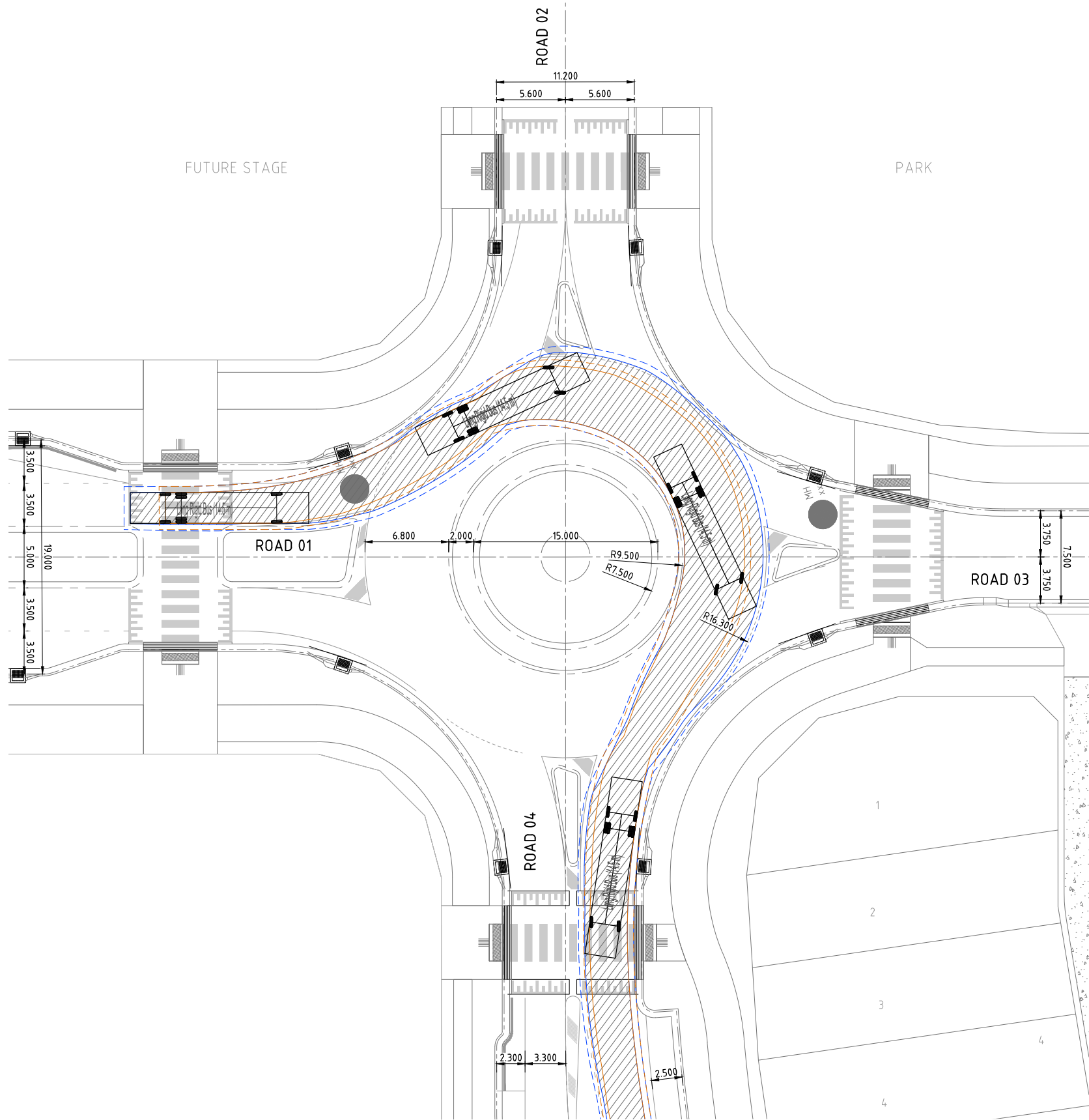
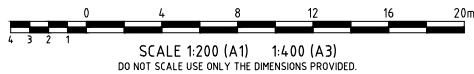
ENGINEERING CERTIFICATION					
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026 9424 Registered Accreditation					
C	MINOR AMENDMENTS	ES	PDW	PI	PI
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI
A	ORIGINAL ISSUE	ES	PDW	PDW	PI
No.	Amendments	Drawn	Design	Design Chk	Appd
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Client	URBEX PTY LTD		
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		
Title	TURNING TEMPLATE DESIGN VEHICLE 14.5M BUS SHEET 2 OF 4		
Datum	AHD	PSM 79006	RL 67.474
(RCC) COORD			
NOT FOR CONSTRUCTION			
Project No.	Drawing No.	Rev	
B00702-DA-CT02		C	

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PLANS AND DOCUMENTS
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DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



Long Rigid Bus (14.5 m)
Overall Length 14.500m
Overall Width 2.500m
Overall Body Height 3.102m
Min Body Ground Clearance 0.337m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 15.000m

14.5m BUS TURNING TEMPLATE - ROAD 01 to ROAD 04
SCALE 1:200

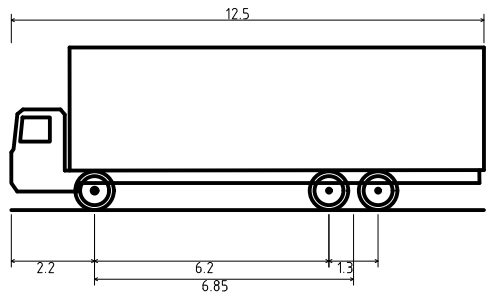
NOTE
14.5m BUS CHECK VEHICLE
FOR REFERENCE ONLY

ENGINEERING CERTIFICATION					
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026					
9424 Registered Accreditation					
No.	Amendments	Drawn	Design	Design Chk	Appd
C	MINOR AMENDMENTS	ES	PDW	PI	PI
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI
A	ORIGINAL ISSUE	ES	PDW	PDW	PI
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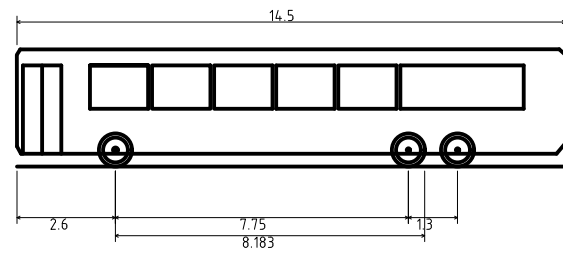


Client	URBEX PTY LTD		
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		
Title	TURNING TEMPLATE DESIGN VEHICLE 14.5M BUS SHEET 3 OF 4		
Datum	AHD	PSM 79006	RL 67.474 (RCC) COORD
Project No.	Drawing No.	Rev	
B00702-DA-CT03		C	

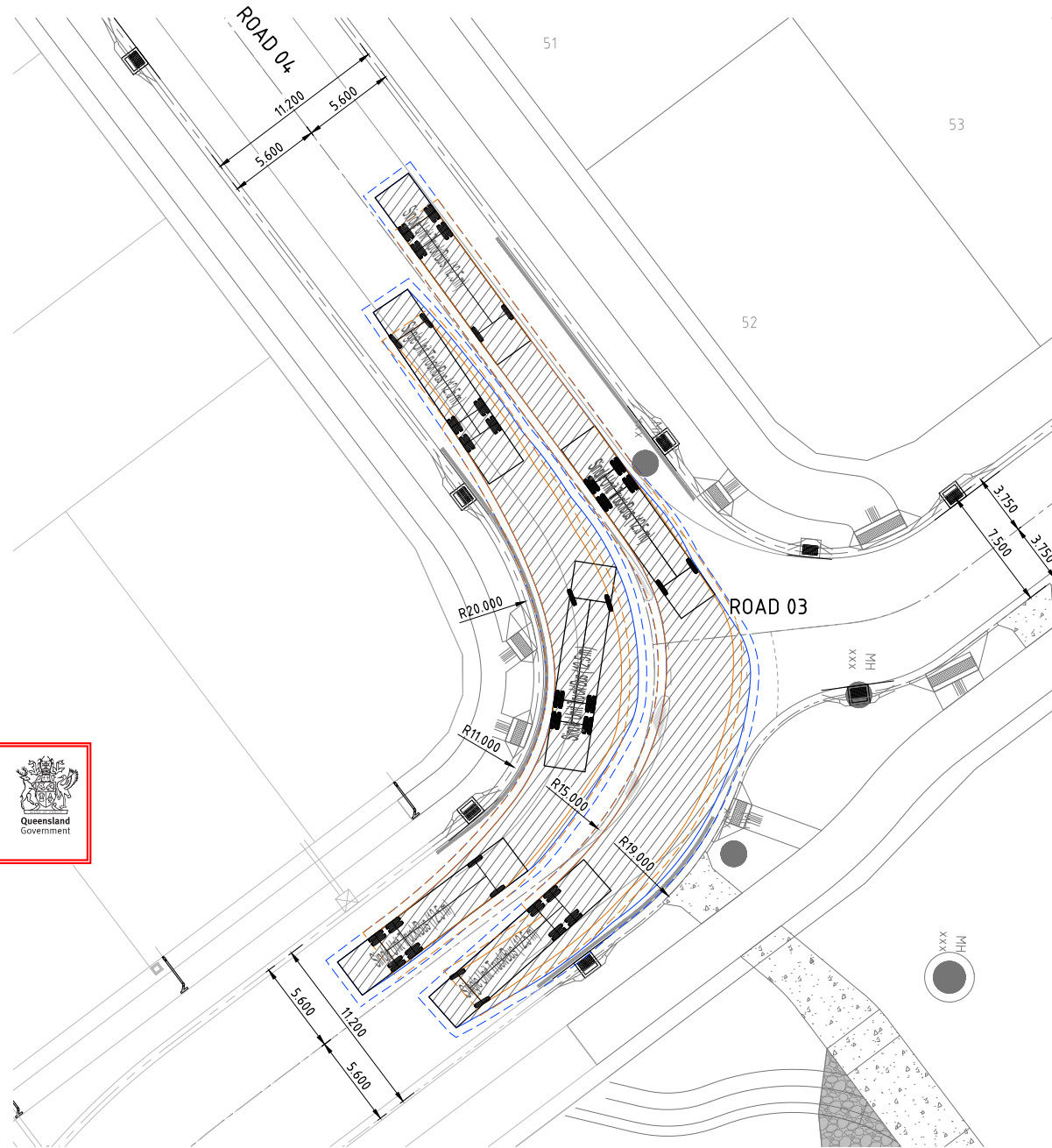




Single Unit Truck/Bus (12.5 m)
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.490m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m

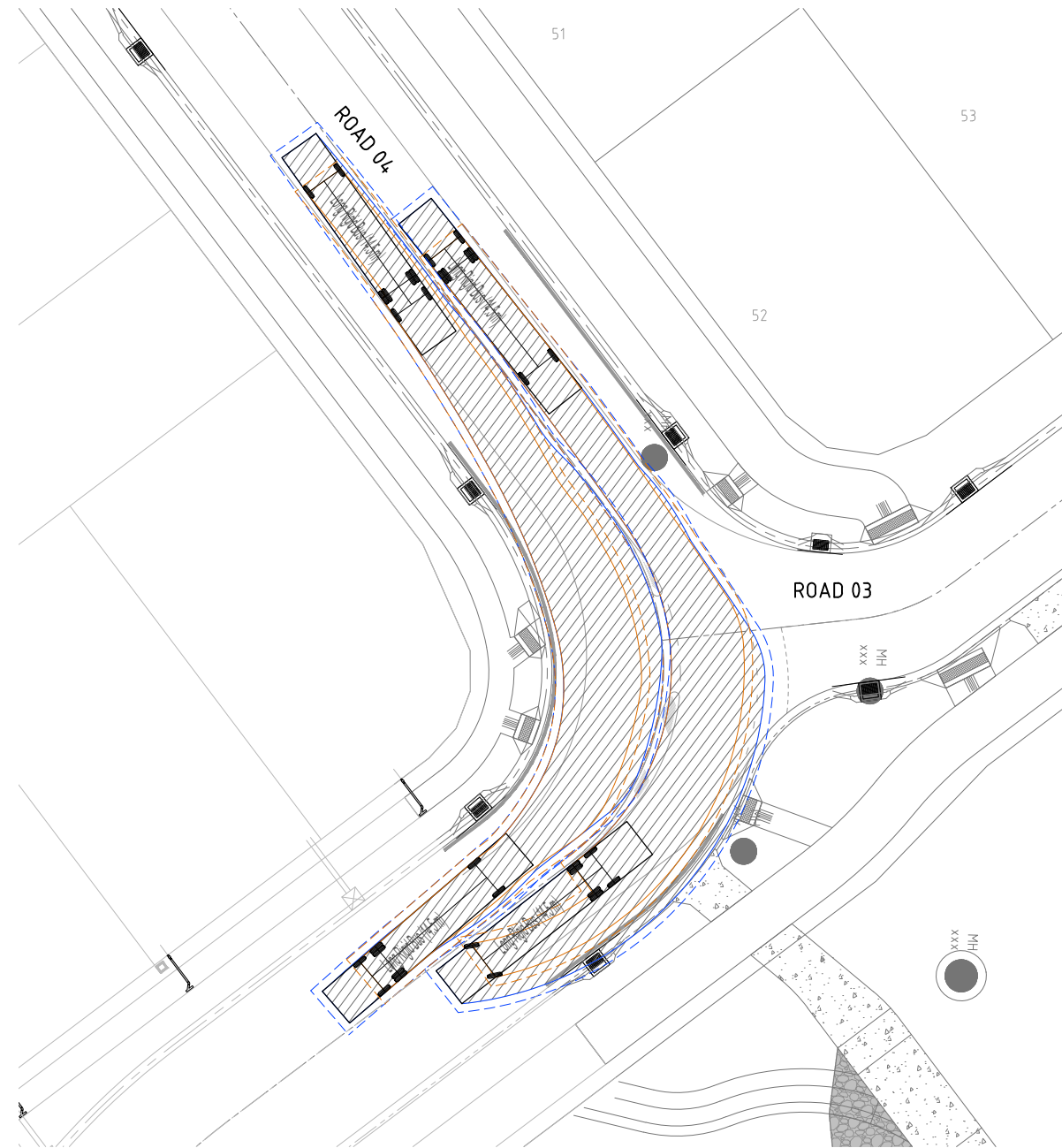


Long Rigid Bus (14.5 m)
Overall Length 14.500m
Overall Width 2.500m
Overall Body Height 3.102m
Min Body Ground Clearance 0.337m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 15.000m



12.5m TRUCK/BUS TURNING TEMPLATE - ROAD 04

SCALE 1:200



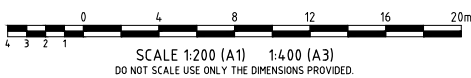
14.5m BUS TURNING TEMPLATE - ROAD 04

SCALE 1:200

NOTE

14.5m BUS CHECK VEHICLE
FOR REFERENCE ONLY

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Date: 17 August 2026
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ENGINEERING CERTIFICATION

Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



Client URBEX PTY LTD

Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL

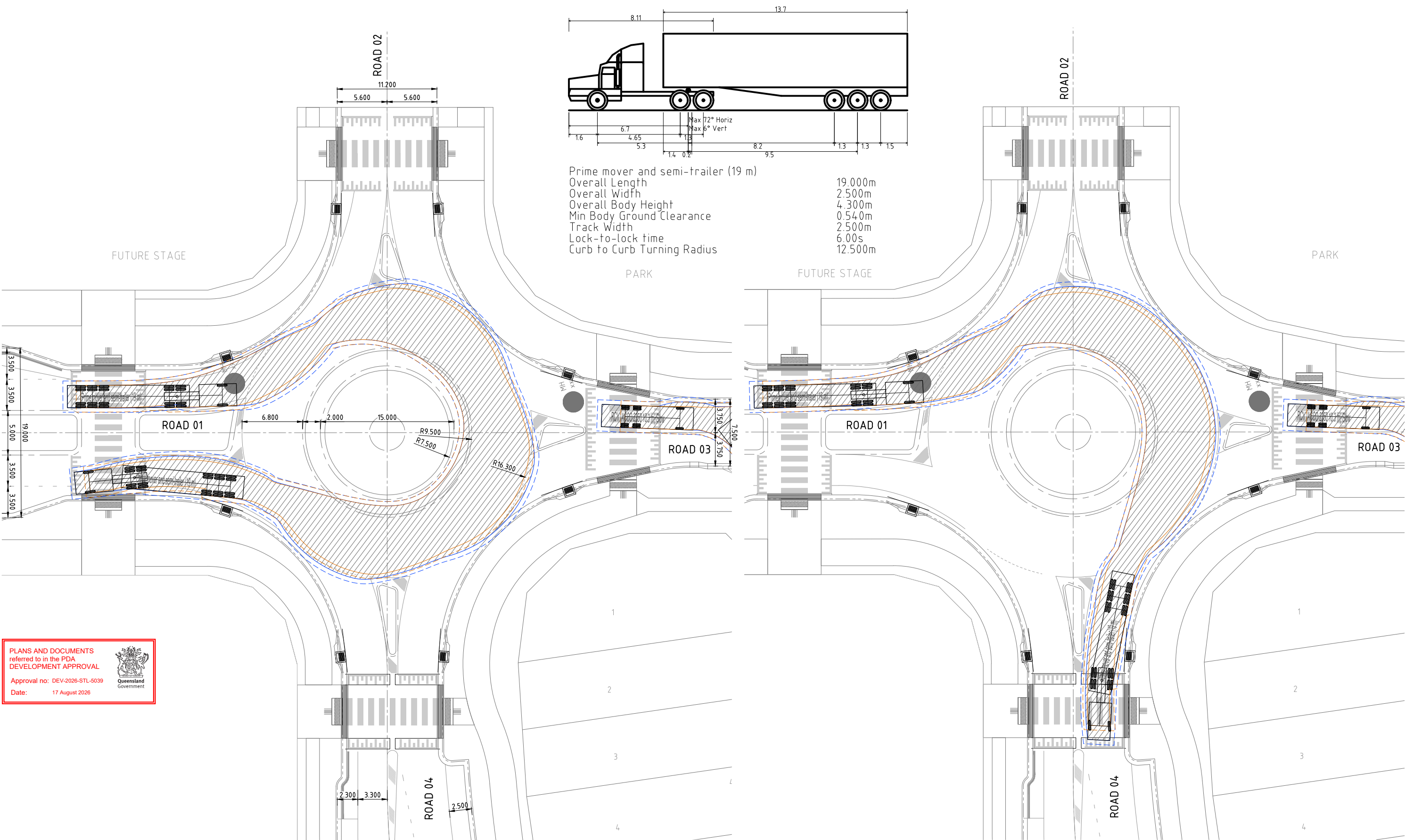
Title TURNING TEMPLATE
DESIGN VEHICLE 14.5M BUS
SHEET 4 OF 4

Datum
AHD
PSM 79006
RL 67.474
(RCC) COORD



NOT FOR CONSTRUCTION

Project No. Drawing No. Rev
B00702-DA-CT04 C



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19m CHECK VEHICLE TURNING TEMPLATE - ROAD 01 to ROAD 01
SCALE 1:200

19m CHECK VEHICLE TURNING TEMPLATE - ROAD 01 to ROAD 04
SCALE 1:200

Plot Date: 19/06/2026 12:22:43 PM User: ETHAN SCHAFER
File Name: S:\2626\Urban\MAN\2025\190702_2451\A CIVIL\B00702-DA-TURNING

ENGINEERING CERTIFICATION

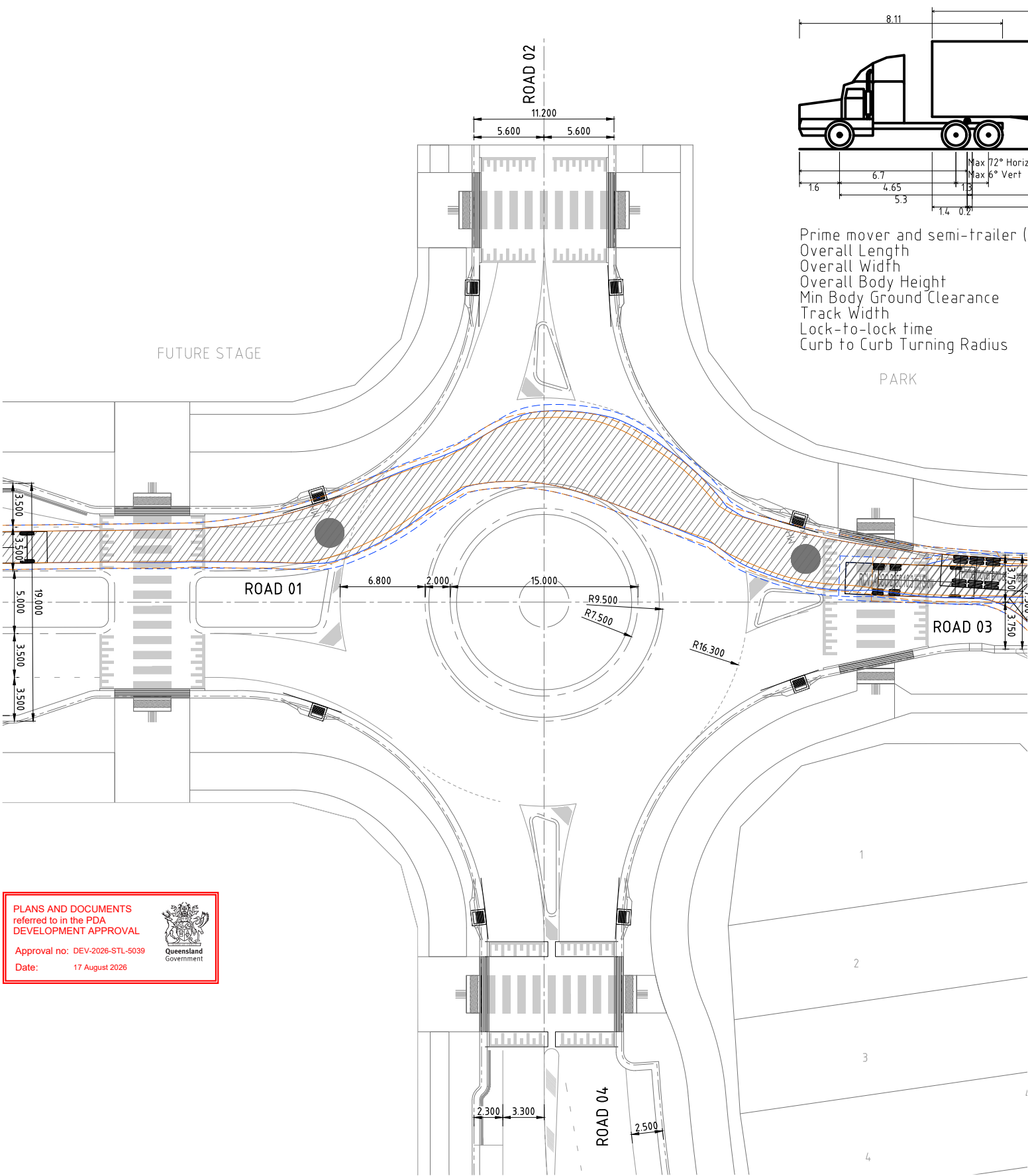
Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation



Client	URBEX PTY LTD			Datum	AHD
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL			PSM 79006	RL 67.474
Title	TURNING TEMPLATE CHECK VEHICLE 19M SEMI TRUCK SHEET 1 OF 2			(RCC) COORD	
Project No.	B00702-DA-CT05	Drawing No.		Rev	C

SCALE 1:200 (A1) 1:400 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

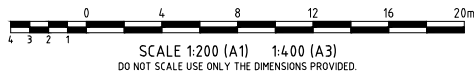
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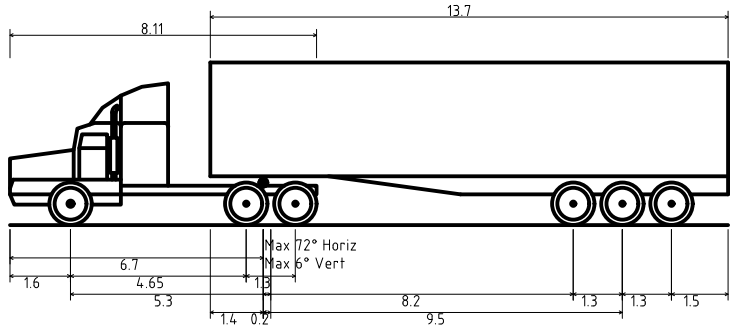
PLANS AND DOCUMENTS
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DEVELOPMENT APPROVAL

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Date: 17 August 2026

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Government

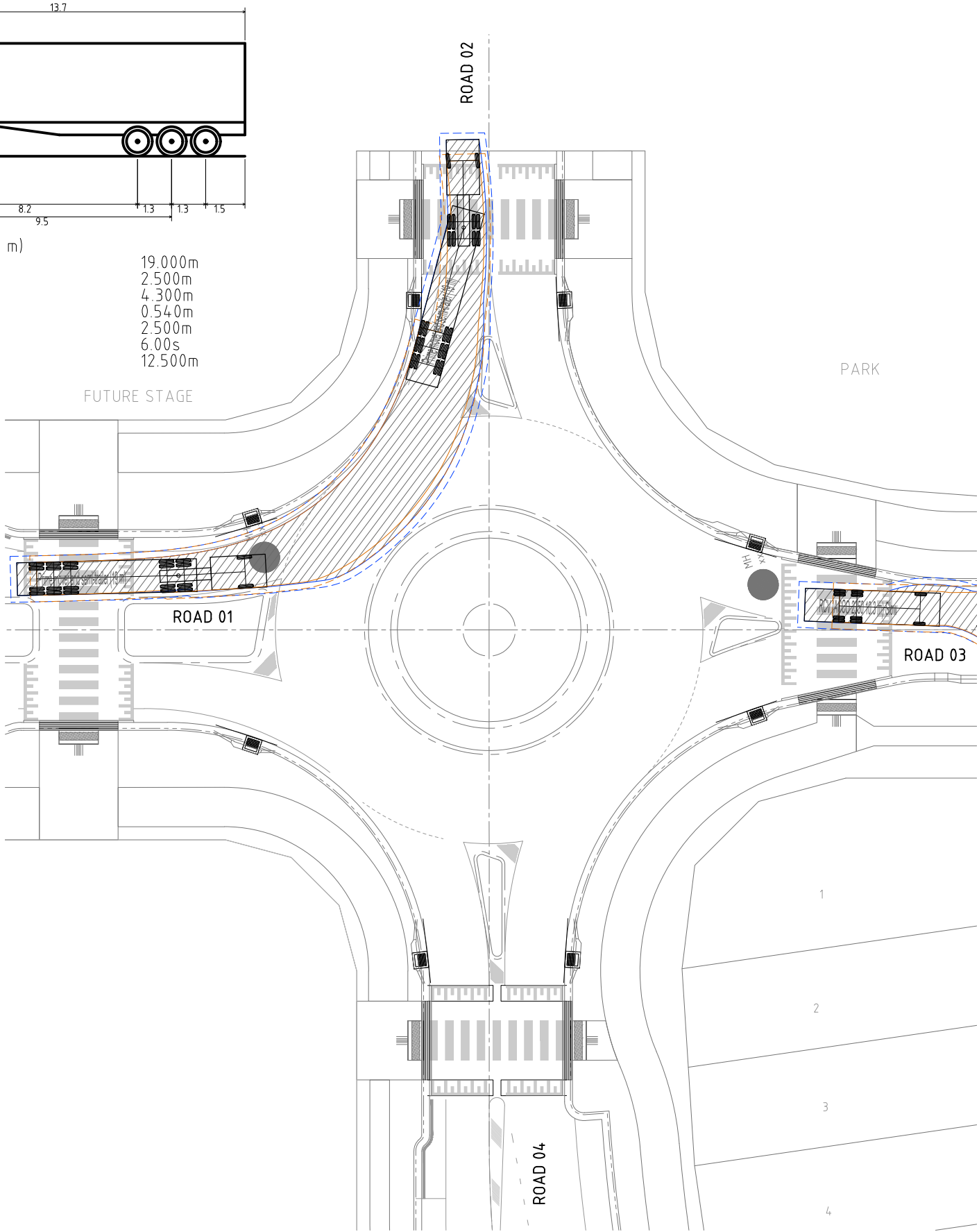


19m CHECK VEHICLE TURNING TEMPLATE - ROAD 01 to ROAD 03
SCALE 1:200



Prime mover and semi-trailer (19 m)
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.540m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m

PARK



19m CHECK VEHICLE TURNING TEMPLATE - ROAD 01 to ROAD 02
SCALE 1:200

ENGINEERING CERTIFICATION

Peter Angerman
Registered Engineer
Date 19/6/2026
9424
Registered Accreditation

URBEX

EMPOWER

Client URBEX PTY LTD

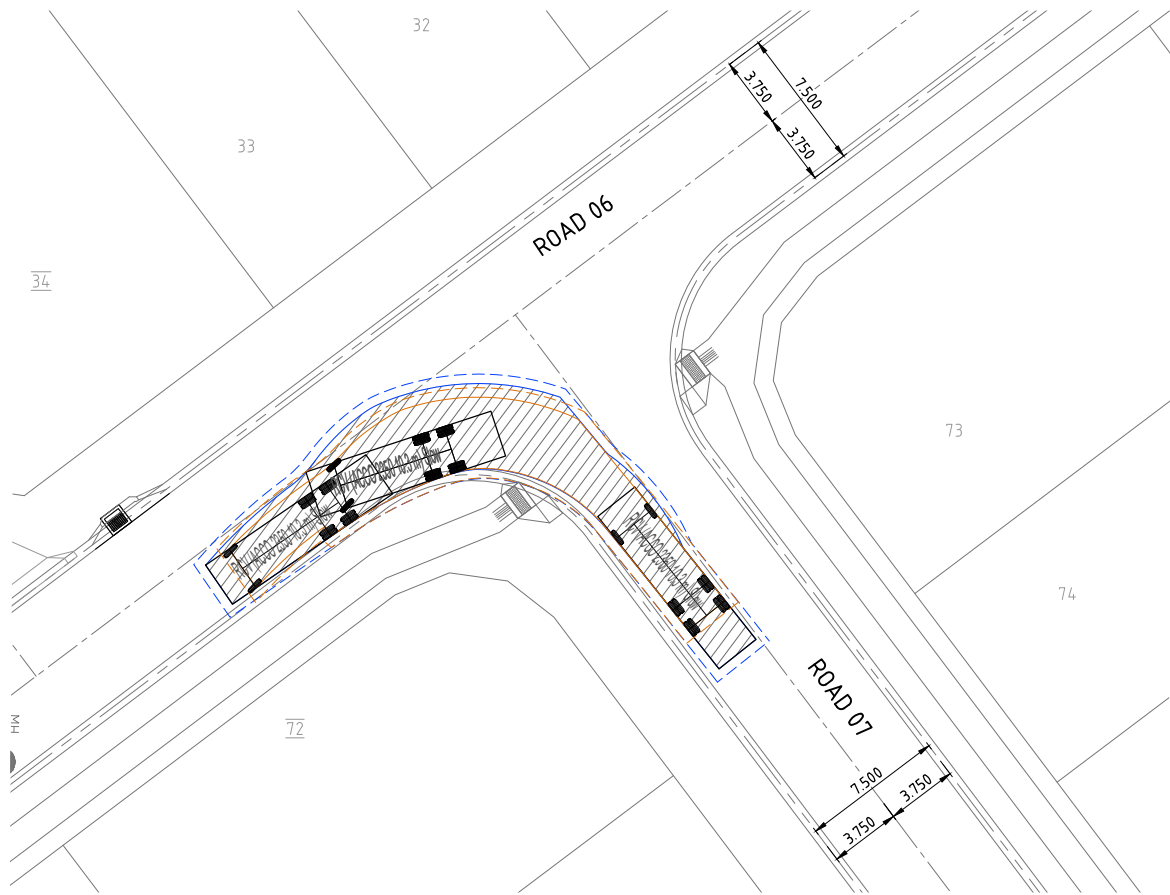
Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL

Title TURNING TEMPLATE
CHECK VEHICLE 19M SEMI TRUCK
SHEET 2 OF 2

Datum
AHD
PSM 79006
RL 67.474
(RCC) COORD

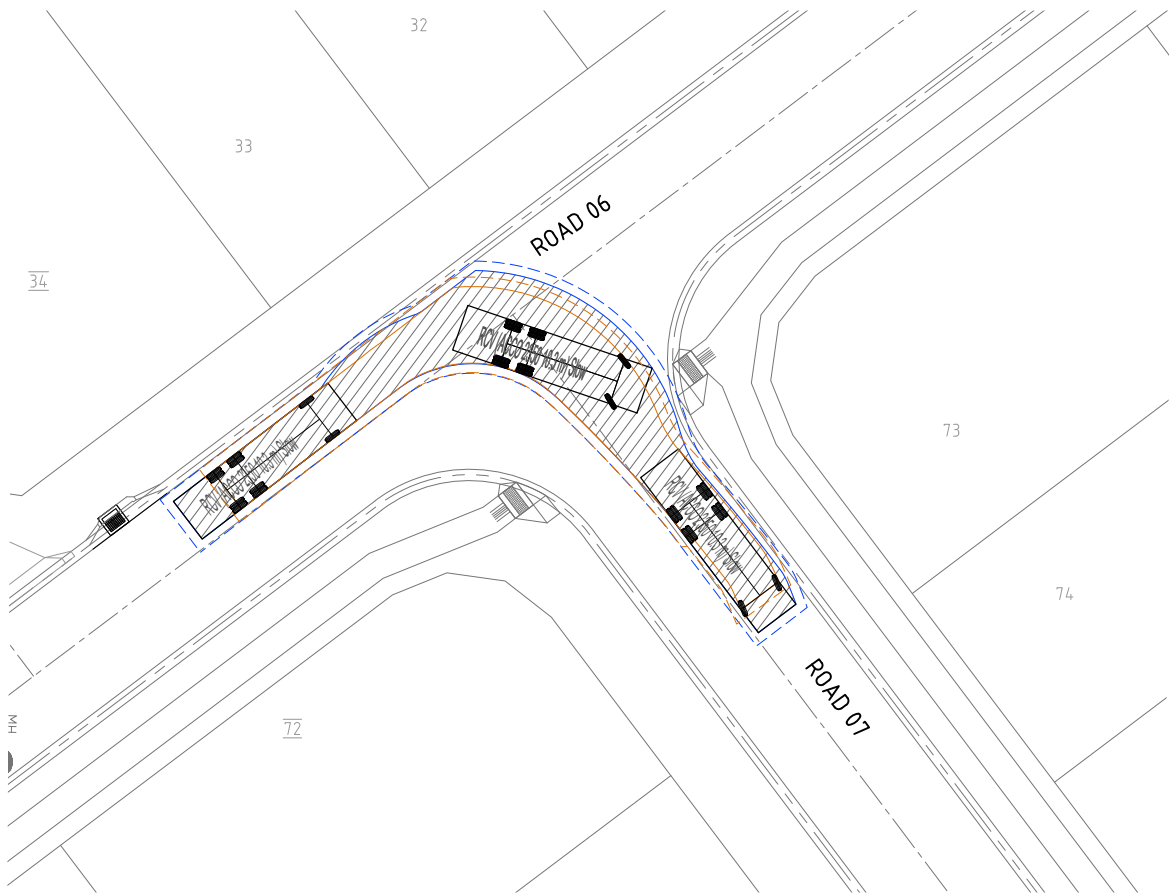
Project No. Drawing No. Rev
B00702-DA-CT06 C





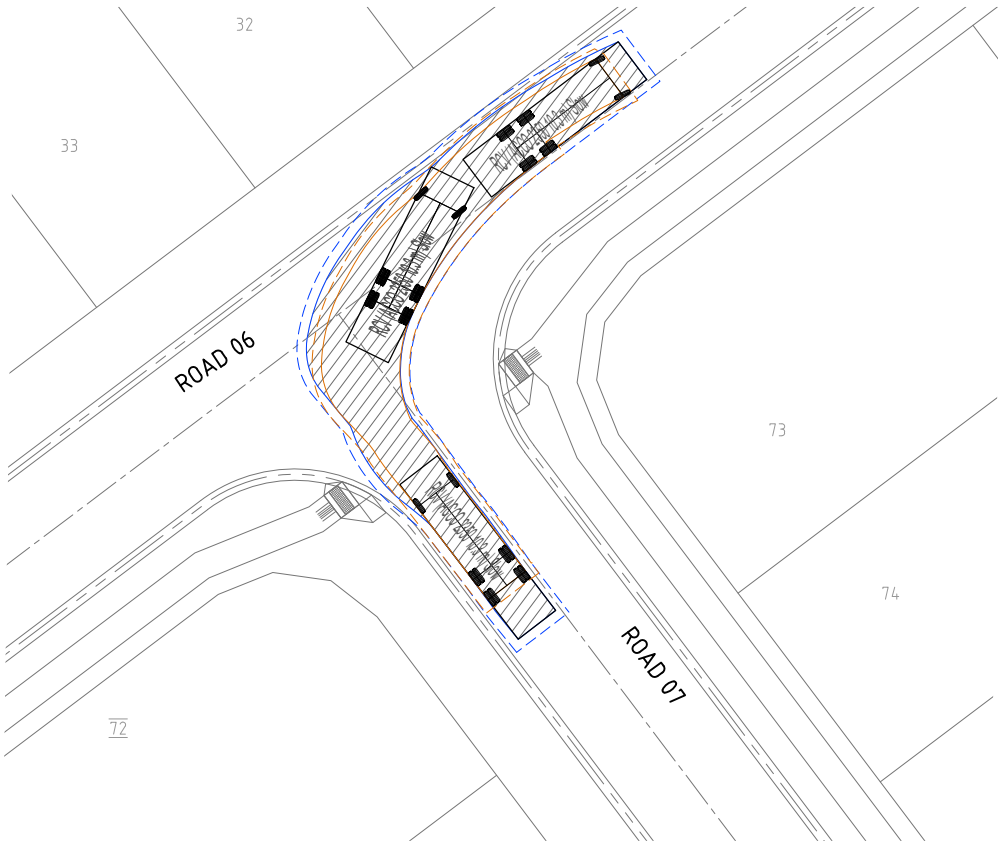
10.3m SERVICE VEHICLE TURNING TEMPLATE - ROAD 07 to ROAD 06

SCALE 1:200



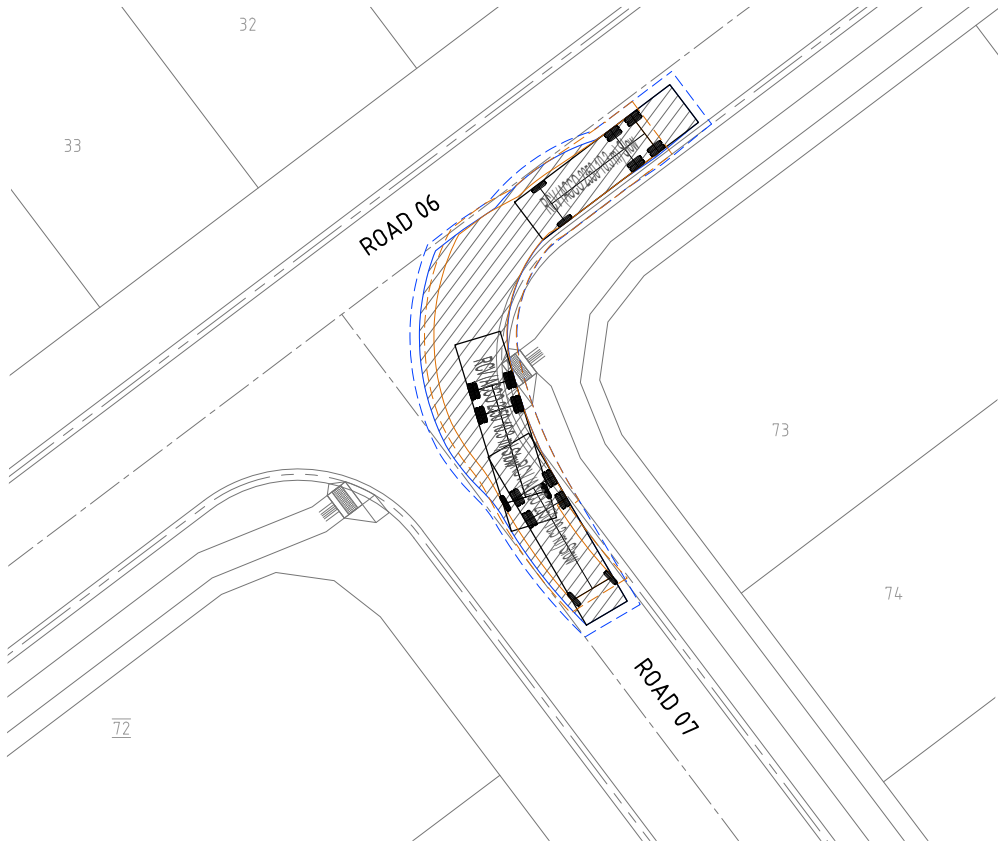
10.3m SERVICE VEHICLE TURNING TEMPLATE - ROAD 06 to ROAD 07

SCALE 1:200



10.3m SERVICE VEHICLE TURNING TEMPLATE - ROAD 07 to ROAD 06

SCALE 1:200

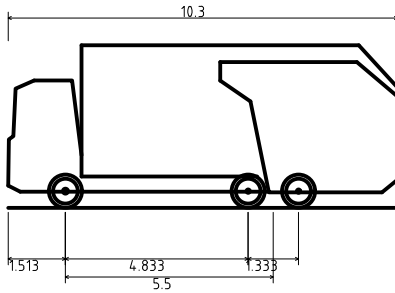


10.3m SERVICE VEHICLE TURNING TEMPLATE - ROAD 06 to ROAD 07

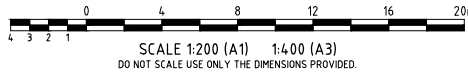
SCALE 1:200

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039
Date: 17 August 2026



RCV (ACCO 2350 10.3 m) 5km/h R 9.757 kerb
Overall Length 10.300m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.410m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 9.757m

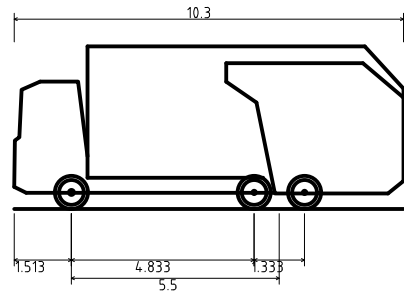


ENGINEERING CERTIFICATION						
Peter Angerman						
Registered Engineer						
Date 19/6/2026						
9424						
Registered Accreditation						

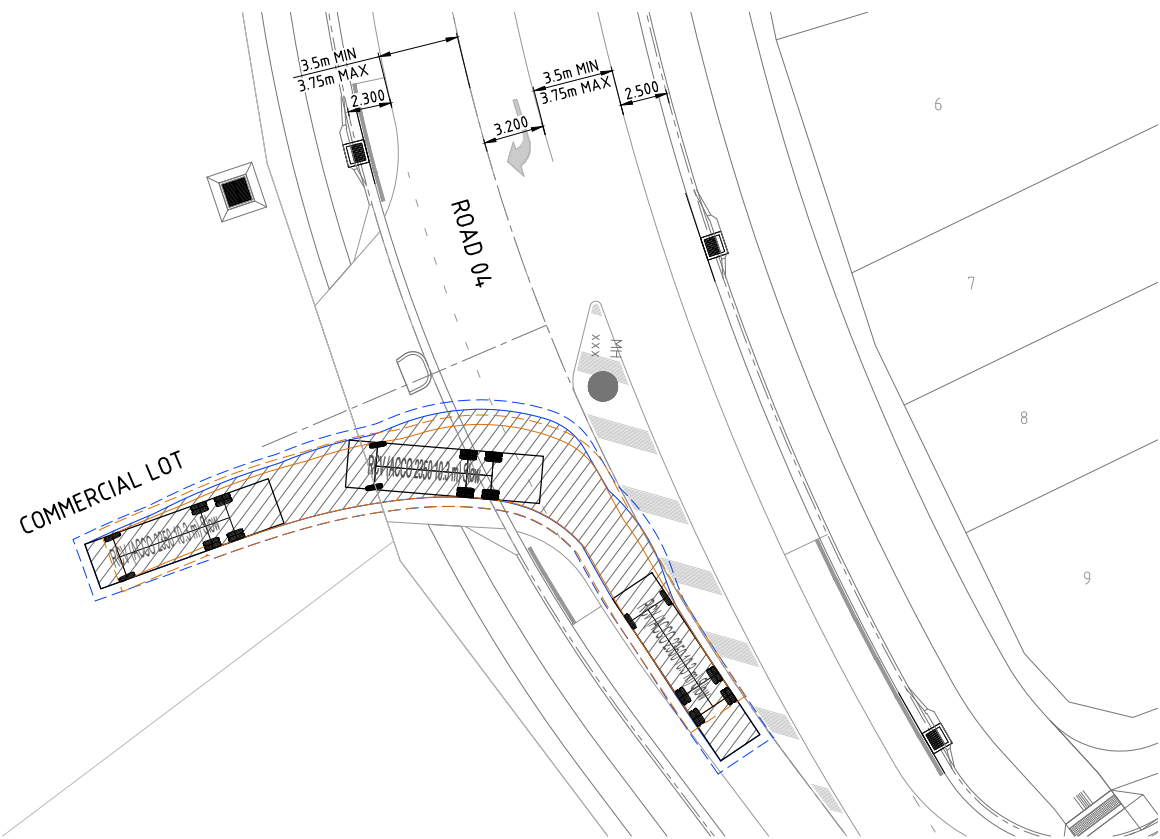
URBEX

EMPOWER

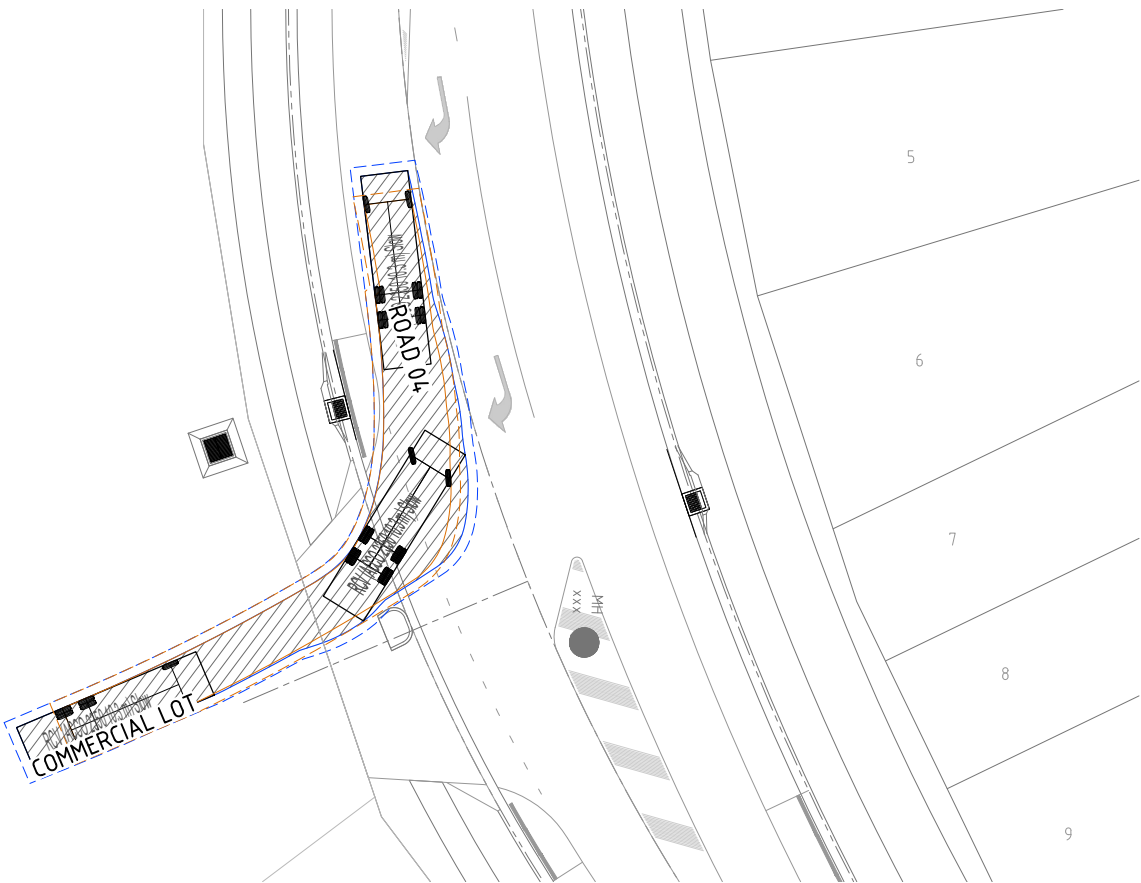
Client	URBEX PTY LTD		Datum AHD PSM 79006 RL 67.474 (RCC) COORD		
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL				
Title	TURNING TEMPLATE		NOT FOR CONSTRUCTION		
	SERVICE VEHICLE 10.3M TRUCK		Project No.	Drawing No.	Rev
	SHEET 3 OF 4		B00702-DA-CT09	C	



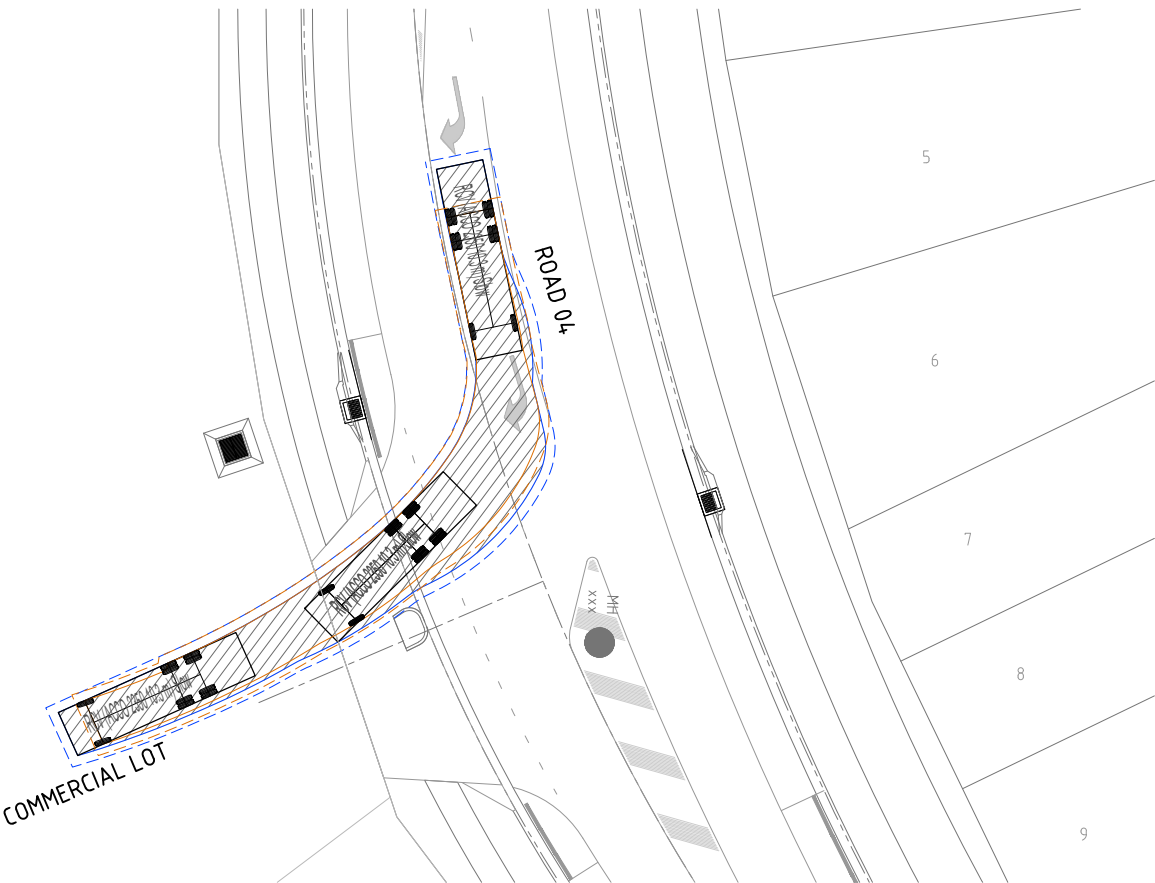
RCV (ACCO 2350 10.3 m) 5km/h R 9.757 kerb
Overall Length 10.300m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.410m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 9.757m



10.3m SERVICE VEHICLE TURNING TEMPLATE – ROAD 04 to COMMERCIAL DRIVEWAY
SCALE 1:200

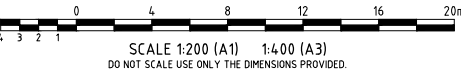


10.3m SERVICE VEHICLE TURNING TEMPLATE – ROAD 04 to COMMERCIAL DRIVEWAY
SCALE 1:200



10.3m SERVICE VEHICLE TURNING TEMPLATE – COMMERCIAL DRIVEWAY to ROAD 04
SCALE 1:200

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referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026
Queensland Government

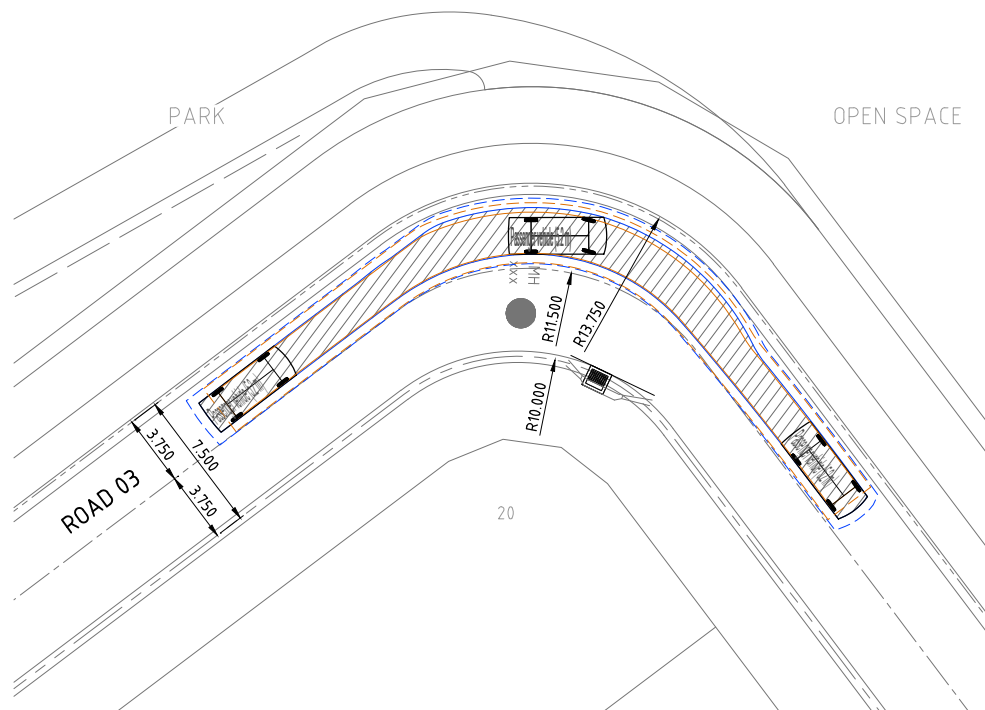


ENGINEERING CERTIFICATION						
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026						
9424 Registered Accreditation						
No.	Amendments	Drawn	Design	Design Chk	Appd	Date

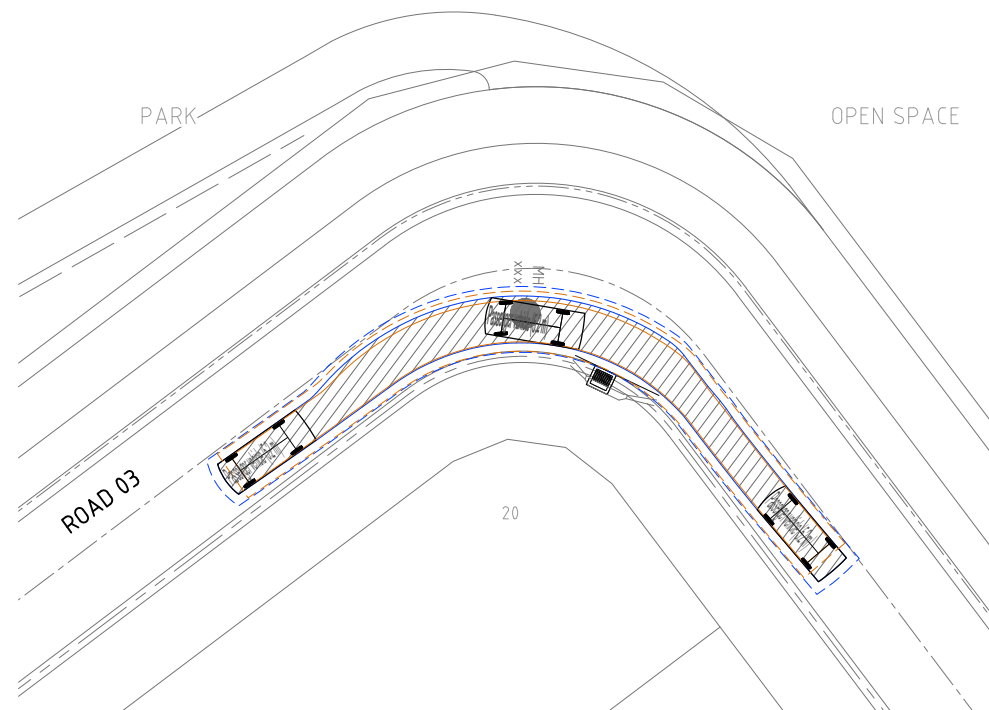


Client	URBEX PTY LTD		Datum AHD PSM 79006 RL 67.474 (RCC) COORD	
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL			
Title	TURNING TEMPLATE SERVICE VEHICLE 10.3M TRUCK SHEET 4 OF 4		NOT FOR CONSTRUCTION	
Project No.		Drawing No.		Rev
B00702-DA-CT10				C



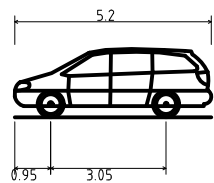


5.2m PASSENGER VEHICLE TURNING TEMPLATE - ROAD 03
SCALE 1:200

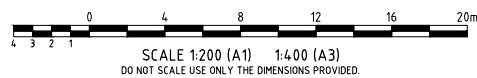


5.2m PASSENGER VEHICLE TURNING TEMPLATE - ROAD 03
SCALE 1:200

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026
Queensland
Government



Passenger vehicle (5.2 m)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.804m
Min Body Ground Clearance 0.295m
Track Width 1.840m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.300m

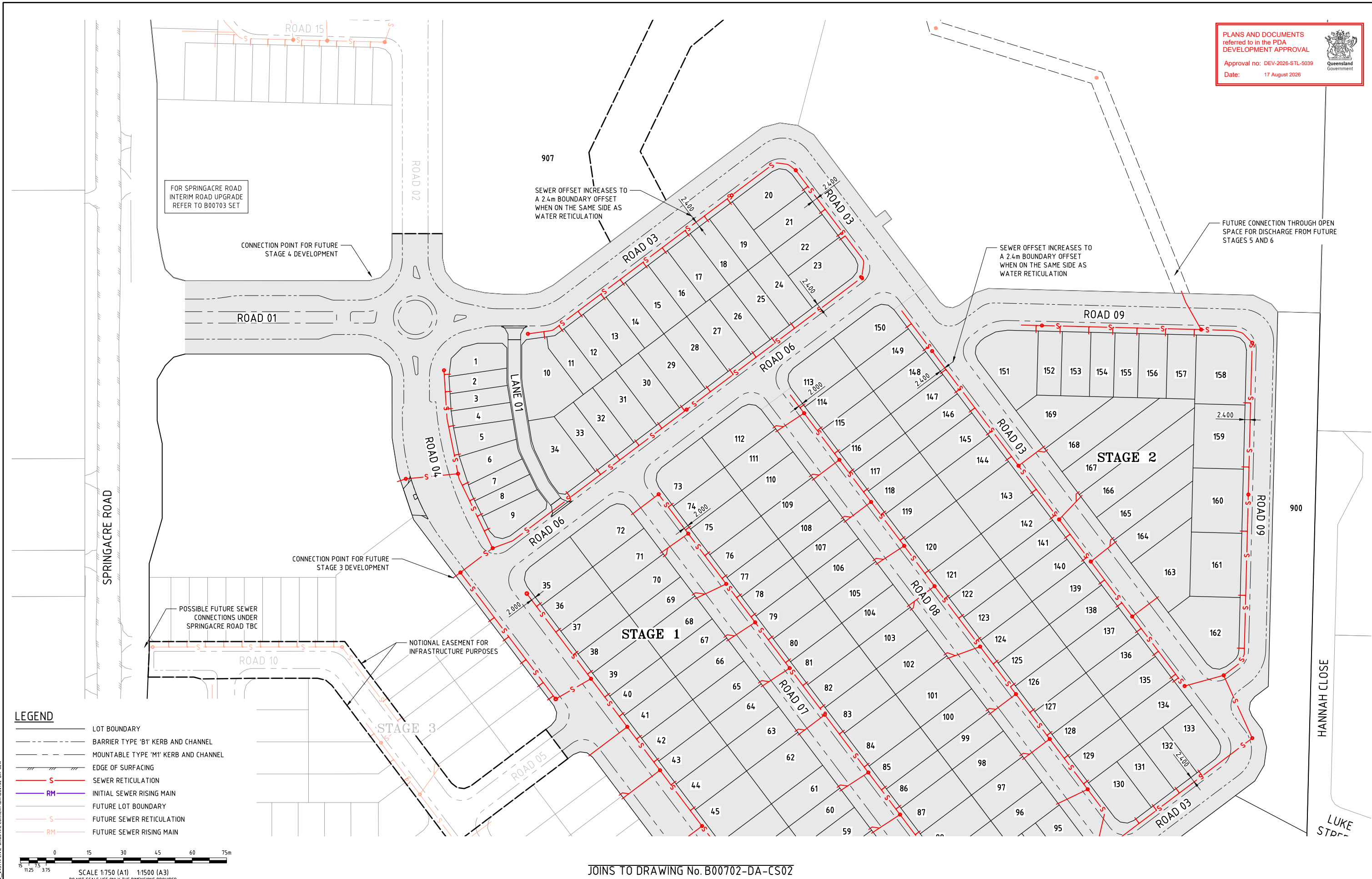


ENGINEERING CERTIFICATION						
<i>Peter Angerman</i> Registered Engineer Date 19/6/2026						
9424						
Registered Accreditation						
No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	MINOR AMENDMENTS	ES	PDW	PI	PI	19/06/26
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PDW	PI	18/06/26
A	ORIGINAL ISSUE	ES	PDW	PDW	PI	12/12/25

URBEX

EMPOWER

Client	URBEX PTY LTD		
Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		
Title	TURNING TEMPLATE DESIGN VEHICLE 5.2M CAR		
Datum	AHD	PSM 79006	RL 67.474 (RCC) COORD
Project No.	B00702-DA-CT11	Drawing No.	C
Rev	NOT FOR CONSTRUCTION		

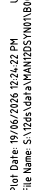


LEGEND

- LOT BOUNDARY
- BARRIER TYPE 'B1' KERB AND CHANNEL
- MOUNTABLE TYPE 'M1' KERB AND CHANNEL
- EDGE OF SURFACING
- SEWER RETICULATION
- INITIAL SEWER RISING MAIN
- FUTURE LOT BOUNDARY
- FUTURE SEWER RETICULATION
- FUTURE SEWER RISING MAIN

SCALE 1:750 (A1) 1:1500 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

ENGINEERING CERTIFICATION										Client		Project		Title		Datum		NOT FOR CONSTRUCTION	
Peter Angerman Registered Engineer Date 19/6/2026 9424 Registered Accreditation										URBEX PTY LTD		SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		CONCEPT SEWER RETICULATION PLAN SHEET 1 OF 2		AHD PSM 79006 RL 67.474 (RCC) COORD		NOT FOR CONSTRUCTION	
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Amendments										Drawn		Design		Design Chk		Appd		Date	
No.										ES		PDW		PI		DH		19/06/26	
C										ES		PDW		PI		DH		18/06/26	
B										ES		PDW		PI		DH		12/12/25	
A										ES		PDW		PI		DH			
ORIGINAL ISSUE																			



										ENGINEERING CERTIFICATION
C	MINOR AMENDMENTS	ES	PDW	PI	DH	19/06/26	 Registered Engineer Date 19/6/2026			
B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PI	DH	18/06/26	Date 19/6/2026			
A	ORIGINAL ISSUE	ES	PDW	PI	DH	12/12/25	9424			
No.	Amendments	Drawn	Design	Design Chk	Appd	Date	Registered Accreditation			

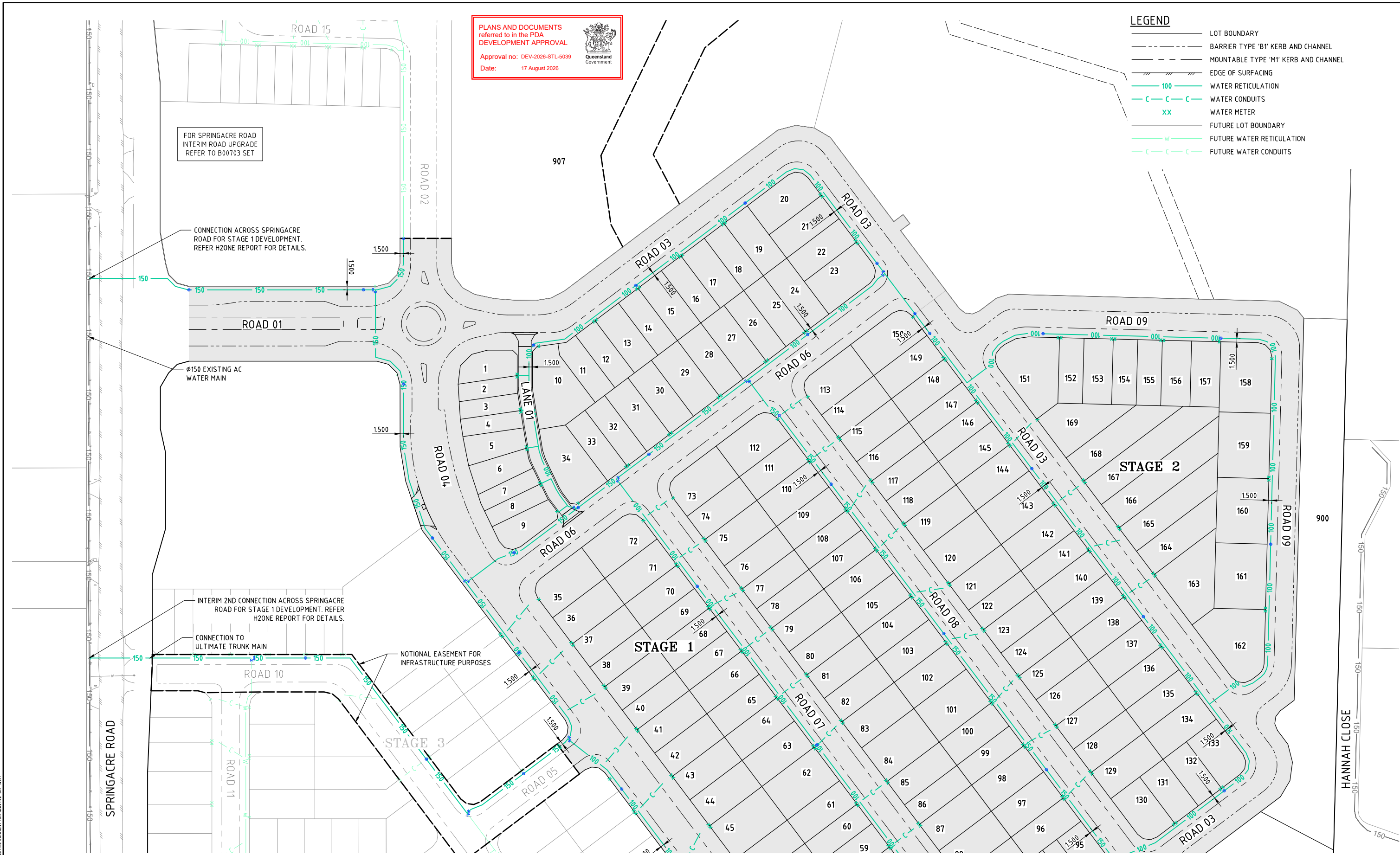
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 	Client URBEX PTY LTD	Datum AHD PSM 79006 RL 67.474 (RCC) COORD		
	Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	NOT FOR CONSTRUCTION		
	Title CONCEPT SEWER RETICULATION PLAN SHEET 2 OF 2	Project No. B00702-DA-CS02		Drawing No. C

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-STL-5039
Date: 17 August 2026



- LEGEND
- LOT BOUNDARY
 - BARRIER TYPE 'B1' KERB AND CHANNEL
 - MOUNTABLE TYPE 'M1' KERB AND CHANNEL
 - EDGE OF SURFACING
 - 100 WATER RETICULATION
 - C C C WATER CONDUITS
 - XX WATER METER
 - FUTURE LOT BOUNDARY
 - W FUTURE WATER RETICULATION
 - C C C FUTURE WATER CONDUITS



SCALE 1:750 (A1) 1:1500 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

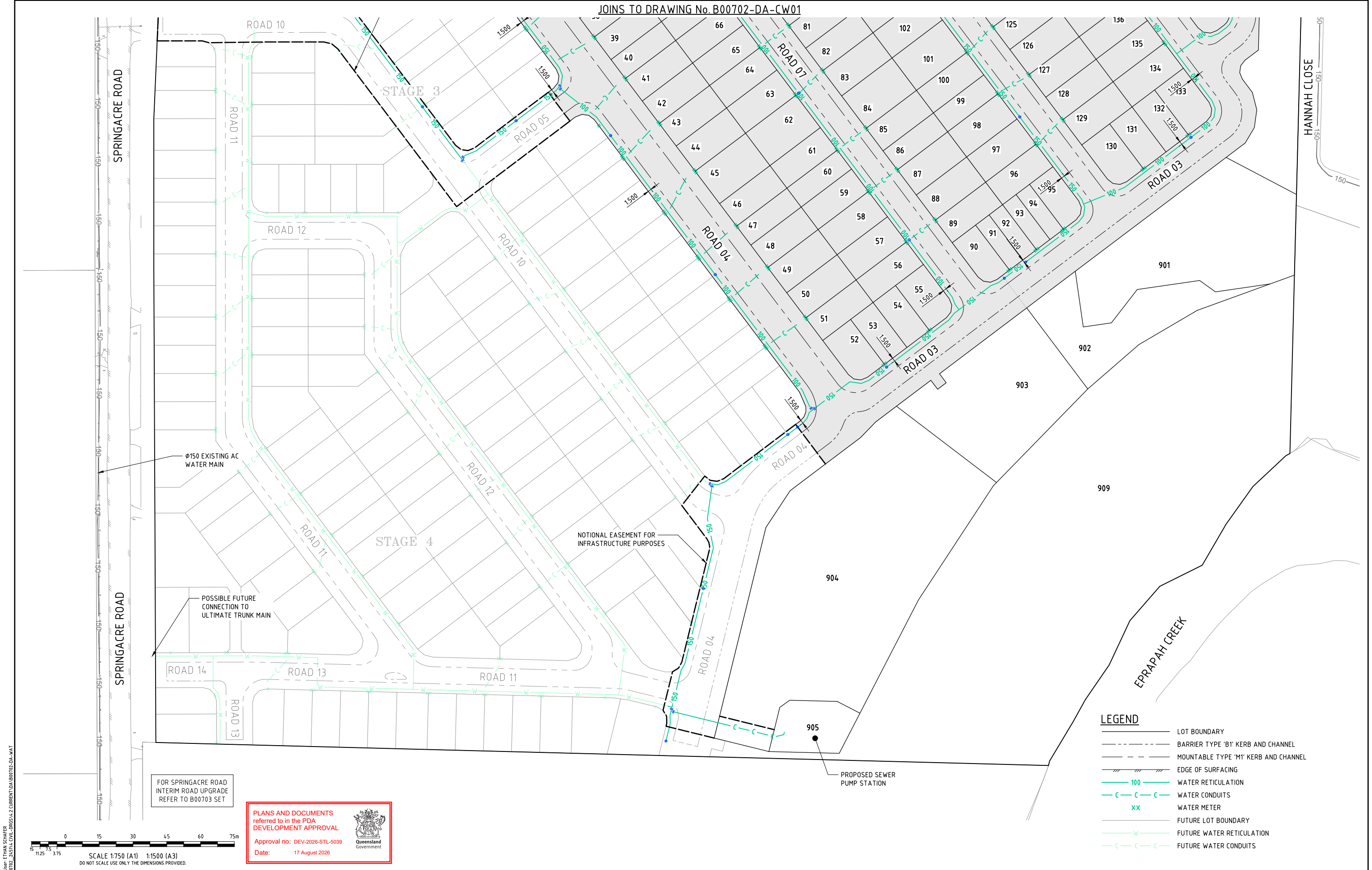
ENGINEERING CERTIFICATION						
	ES	PDW	PI	DH	19/06/26	<i>Peter Angerman</i> Registered Engineer Date 19/6/2026
	ES	PDW	PI	DH	18/06/26	
	ES	PDW	PI	DH	12/12/25	9424
No.	Amendments	Drawn	Design	Design Chk	Appd	Date
						Registered Accreditation



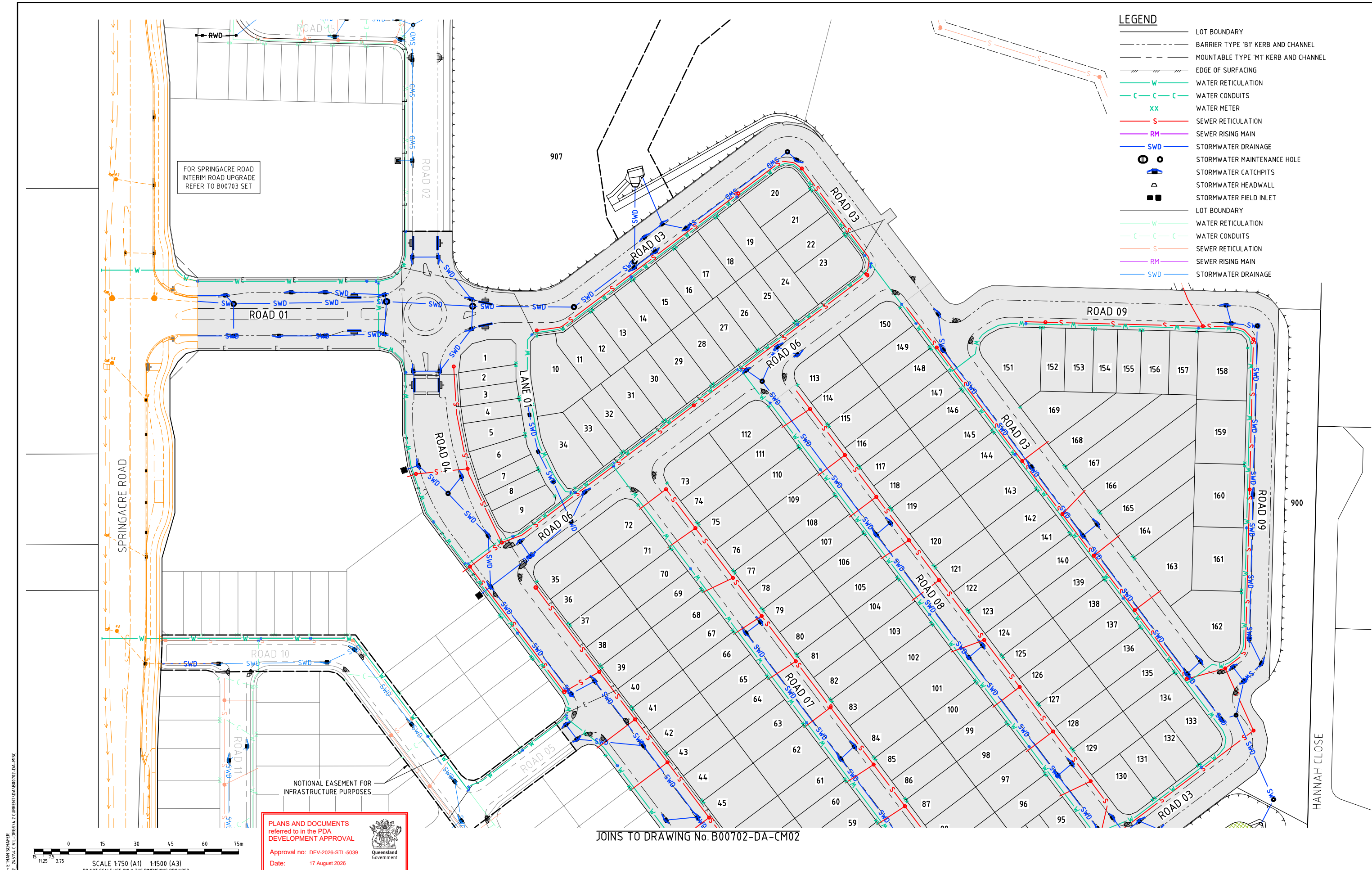
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Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL	PSM	79006
Title	CONCEPT WATER RETICULATION PLAN	RL	67.474
	SHEET 1 OF 2	(RCC) COORD	
Project No.	B00702-DA-CW01	Drawing No.	
Rev	C		

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ENGINEERING CERTIFICATION									
Peter Ingelman Registered Engineer Date 19/6/2026									
9424 Registered Accreditation									
Client URBEX PTY LTD									
Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL									
Title CONCEPT WATER RETICULATION PLAN SHEET 2 OF 2									
Datum AHD PSM 79006 RL 67.474 (RCC) COORD									
NOT FOR CONSTRUCTION									
Project No. Drawing No. Rev									
B00702-DA-CW02 C									



ENGINEERING CERTIFICATION									
Peter Ingelman Registered Engineer Date 19/6/2026									
9424 Registered Accreditation									
Client URBEX PTY LTD									
Project SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL									
Title COMBINED SERVICES PLAN									
SHEET 1 OF 2									
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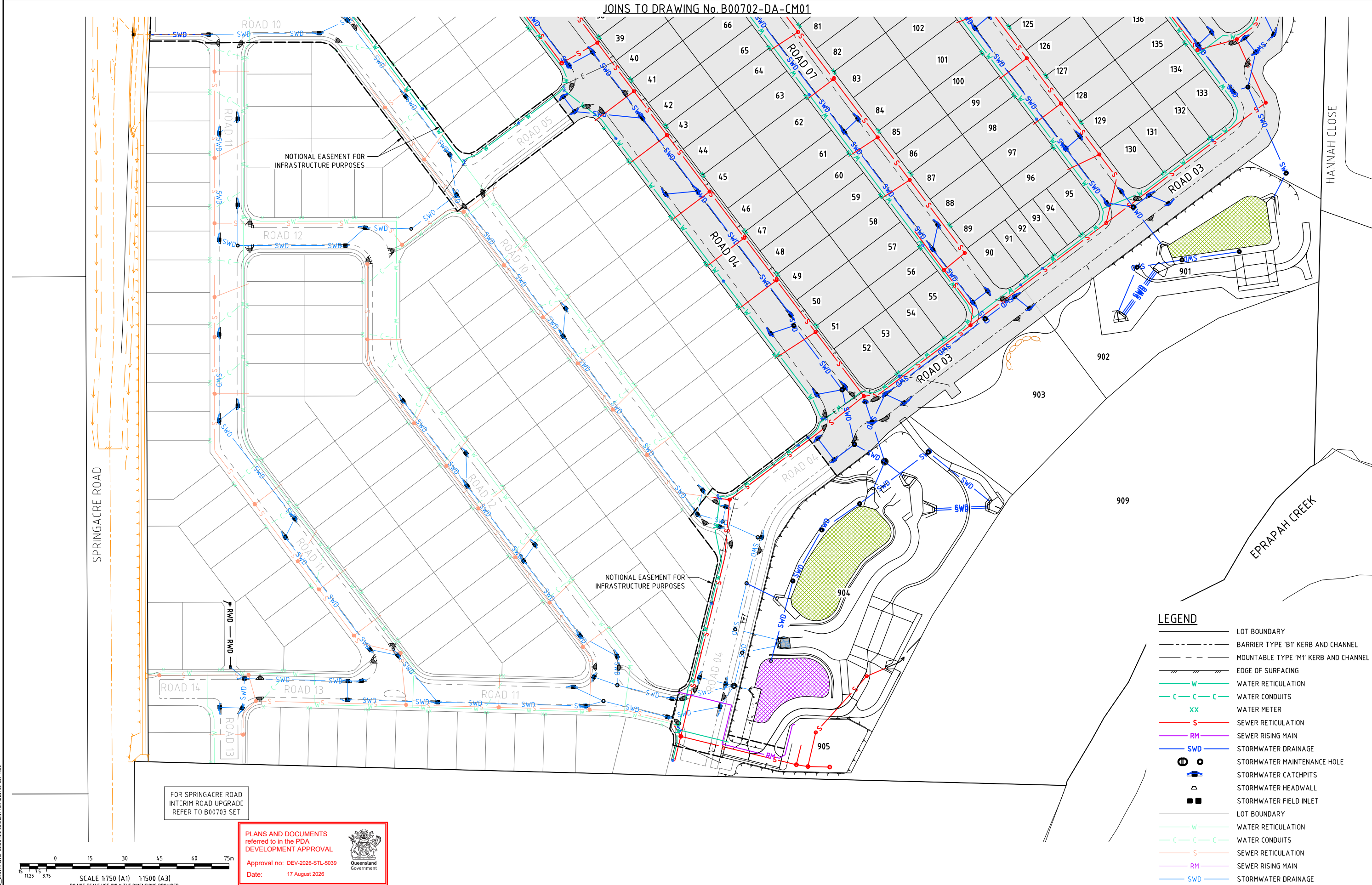
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B	MINOR AMENDMENTS INCLUDING STORMWATER BASIN AREAS AS PER EDQ CONDITIONS	ES	PDW	PI	DH	18/06/26
A	ORIGINAL ISSUE	ES	PDW	PI	DH	12/12/25
No.	Amendments	Drawn	Design	Design Chk	Appd	Date

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URBEX

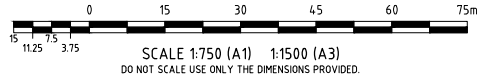
EMPOWER

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- LEGEND**
- LOT BOUNDARY
 - BARRIER TYPE 'B1' KERB AND CHANNEL
 - MOUNTABLE TYPE 'M1' KERB AND CHANNEL
 - EDGE OF SURFACING
 - WATER RETICULATION
 - WATER CONDUITS
 - WATER METER
 - SEWER RETICULATION
 - SEWER RISING MAIN
 - STORMWATER DRAINAGE
 - STORMWATER MAINTENANCE HOLE
 - STORMWATER CATCHPITS
 - STORMWATER HEADWALL
 - STORMWATER FIELD INLET
 - LOT BOUNDARY
 - WATER RETICULATION
 - WATER CONDUITS
 - SEWER RETICULATION
 - SEWER RISING MAIN
 - STORMWATER DRAINAGE

FOR SPRINGACRE ROAD
INTERIM ROAD UPGRADE
REFER TO B00703 SET



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-STL-5039
Date: 17 August 2026

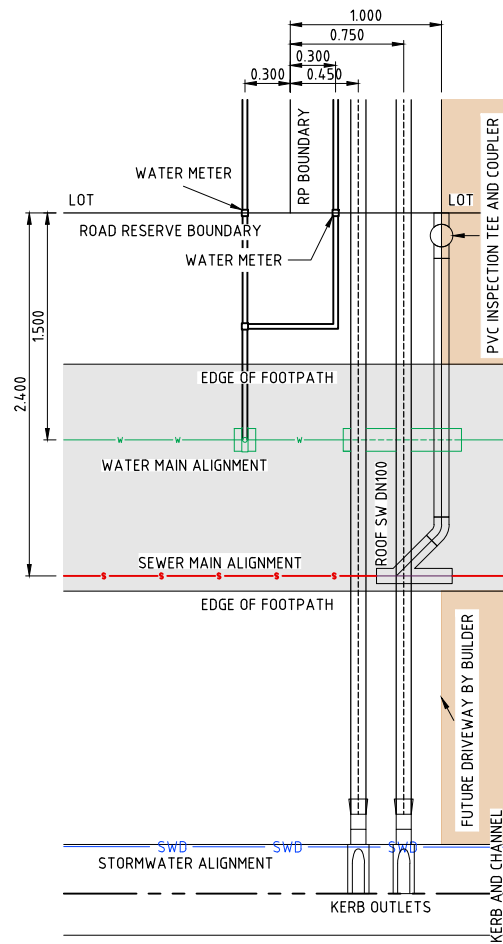
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ES	PDW	PI	DH	18/06/26	9424				
ES	PDW	PI	DH	12/12/25	Registered Accreditation				



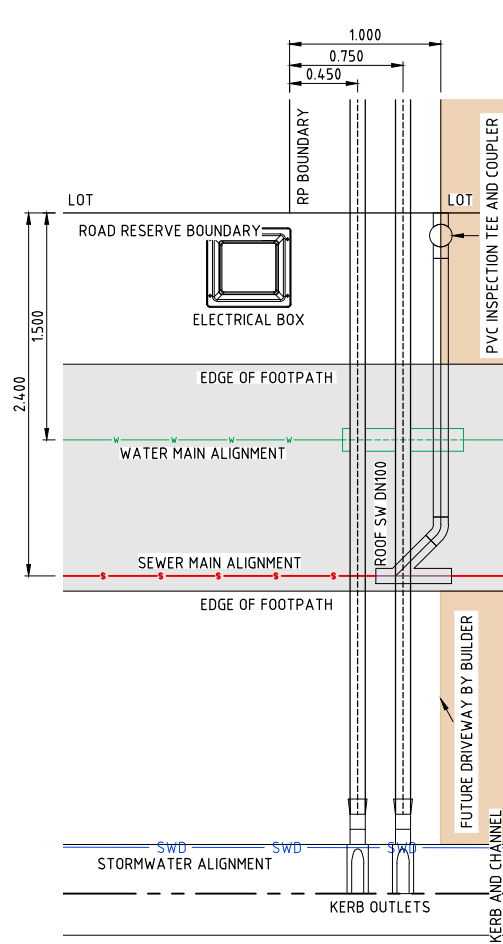
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Project	SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		PSM	79006	
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			(RCC) COORD		
			Project No.	Drawing No.	Rev
			B00702-DA-CM02		C

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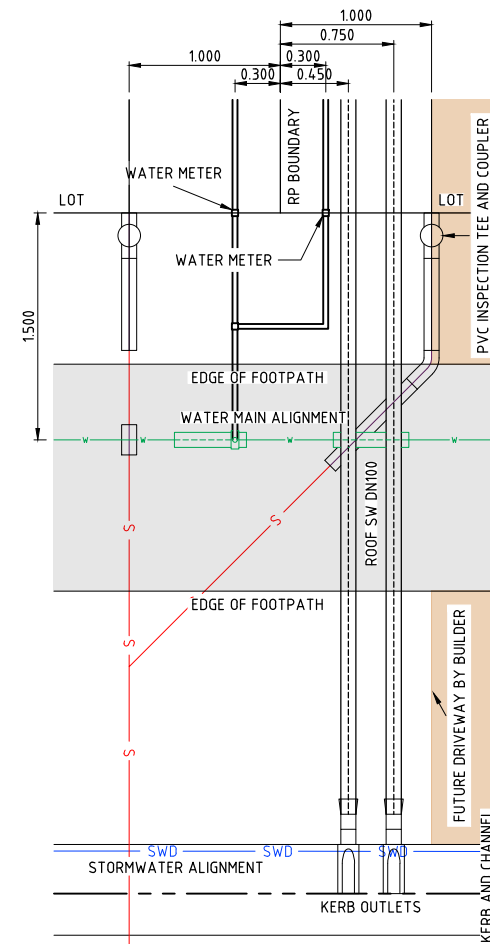
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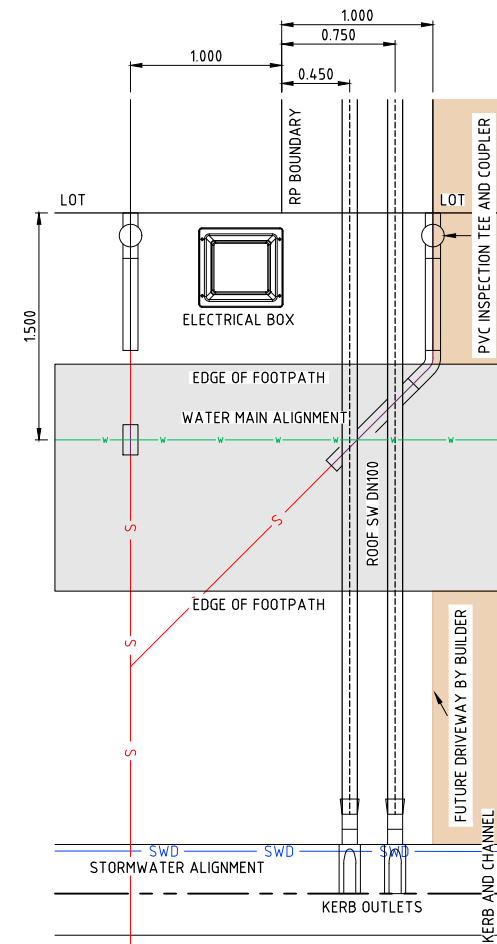
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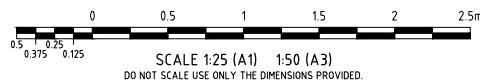
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CM03 SCALE 1:25



3 TYPICAL DETAIL
CM03 SCALE 1:25



4 TYPICAL DETAIL
CM03 SCALE 1:25



PLANS AND DOCUMENTS
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ENGINEERING CERTIFICATION									
					<i>Peter Angerman</i>				
					Registered Engineer				
					Date 19/6/2026				
					9424				
					Registered Accreditation				



Client		URBEX PTY LTD		Datum	
Project		SOUTHERN THORNLANDS PRECINCT 1 - ST 1 & 2 RAL		AHD	
Title		COMBINED SERVICES PLAN		PSM 79006	
		TYPICAL DETAILS - SHEET 1 OF 1		RL 67.474	
				(RCC) COORD	
				NOT FOR CONSTRUCTION	
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				Drawing No.	
				Rev	
				B00702-DA-CM03	
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