BCC DS
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APPLICATION REF
A007151047

ENGENY

CENTRAL ALLIANCE TRUSTEE NO. 13 PTY LTD

168 Laxton Road, Pallara

Stormwater Management Plan

BBNE02346_0001-REP-001-1

1 SEPTEMBER 2026

DISCLAIMER

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Rev	Date	Description	Author	Reviewer	Project Mgr.	Approver
0	25/08/2026	Client Submission	Brendon Bolt	Kelsey Mundt	Brendon Bolt	Brendon Bolt
1	1/09/2026	Client Submission	Brendon Bolt	Kelsey Mundt	Brendon Bolt	Brendon Bolt
Signatures:						

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1. INTRODUCTION

Engeny Australia Pty Ltd (Engeny) have been engaged by Central Alliance Trustee No. 13 Pty Ltd to prepare a Stormwater Management Plan (SMP) for a proposed Reconfiguration of Lot (ROL) application (1 into 18 lots) at 168 Laxton Road, Pallara (Lot 73 RP87803) (the Site). The Site is located within the Brisbane City Council (BCC) Local Government Authority (LGA).

1.1 Project Purpose and Scope

The purpose of this SMP is to identify the stormwater management options required for the proposed development to achieve the requirements of the BCC Planning Scheme 2014 "Stormwater Code". The project scope therefore includes the following:

- Assessment of the requirement for stormwater quality as per the BCC Planning Scheme.
- Assessment of the stormwater quantity runoff and if further mitigation is recommended.
- Collation of findings in a consolidated Stormwater Management Plan (SMP) report.

1.2 Site Characteristics

The Site has an approximate area of 1.61 ha and is currently zoned low density residential. The existing lot has a house with most of the Site being vegetated. The Site is sloping towards the rear of the Site (East) with surface elevations ranging from RL 20.1 m AHD to RL 18.2 m with an average slope of 2%.

The proposed Site layout and engineering plans are provided in Appendix A: of this report, with the Site locality presented in Figure 1.1 below.



FIGURE 1.1: SITE LOCALITY

1.3 Project Data and Guidelines

The following data has been utilised for this assessment:

- Site plans prepared by PSA Consulting (dated August 2026).
- Design inputs for hydrologic and hydraulic modelling from the Australian Rainfall and Runoff Data Hub.
- Rainfall and Meteorological Data by Australian Bureau of Meteorology (Bureau).
- Aerial LiDAR data of the ANZLIC Committee on Surveys and Mapping (ELVIS, https://elevation.fsdf.org.au/).

The guidelines, standards, and codes considered during the assessment were as follows:

- Brisbane City Council Planning Scheme 2014.
- Queensland Urban Drainage Manual 2017 (QUDM).
- Australian Rainfall and Runoff 2019 (ARR) 2019 (Ball, et al, 2019).

1.4 Performance Criteria

The following objectives have been adopted for the development with respect to the management of stormwater:

- Stormwater Quantity:
  - No actionable nuisance caused by changes in stormwater quantity.
- Stormwater Quality:
  - Comply with outcomes of BCC Stormwater Management Code.

2. STORMWATER QUALITY

No formal water quality treatment devices are proposed for the Site. The layout for the Site does not propose any new road, with all lots gaining access onto Road 4, which is proposed as part of the adjoining development (Application No: A006935362) as shown below in Figure 2.1. We request Council negate onsite water quality treatment requirement in this instance as development flows will connect into the drainage of Road 4 which then connects into to trunk drainage which ultimately discharges into an open channel and a regional wetland (downslope of Vied Road).

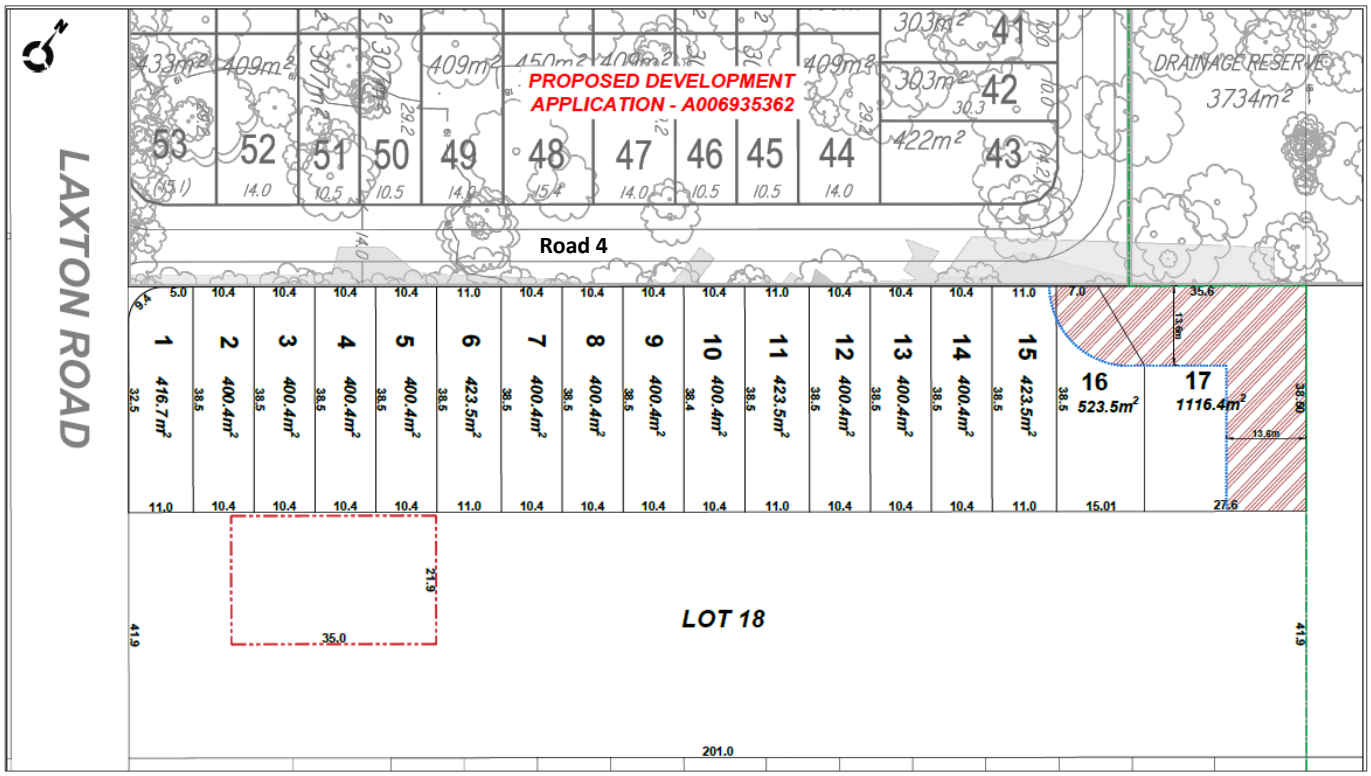

FIGURE 2.1: EXCERPT OF SITE LAYOUT WITH ACCESS TO ROAD 4 FROM ADJOINING DEVELOPMENT

3. STORMWATER QUANTITY

The objective of this assessment is to investigate the impacts the proposed development has on peak flows discharging from the Site to the receiving waterway (and lawful point of discharge) to determine if no nuisance of flow conditions can be achieved.

3.1 Lawful Point of Discharge

The Queensland Urban Drainage Manual (QUDM) (4th Edition – Institute of Public Works Engineering Australasia, Queensland Division) identifies that a test can be undertaken to determine whether a lawful point of discharge exists:

The criteria for determining the lawful point of discharge are:

- Will the proposed development alter the site's stormwater discharge characteristics in a manner that may substantially damage a third-party property (see Section 3.6)?
  - If not, then no further steps are required to obtain tenure for a lawful point of discharge (assuming any previous circumstances and changes were lawful).

The currently discharges as sheet flow in a northerly direction into the adjacent property. The development will maintain this discharge location with it be proposed to discharge in the Road 4 (proposed as part of adjoining development), which will become future road reserve and is considered to be the lawful point of discharge for the Site (refer Figure 3.1).

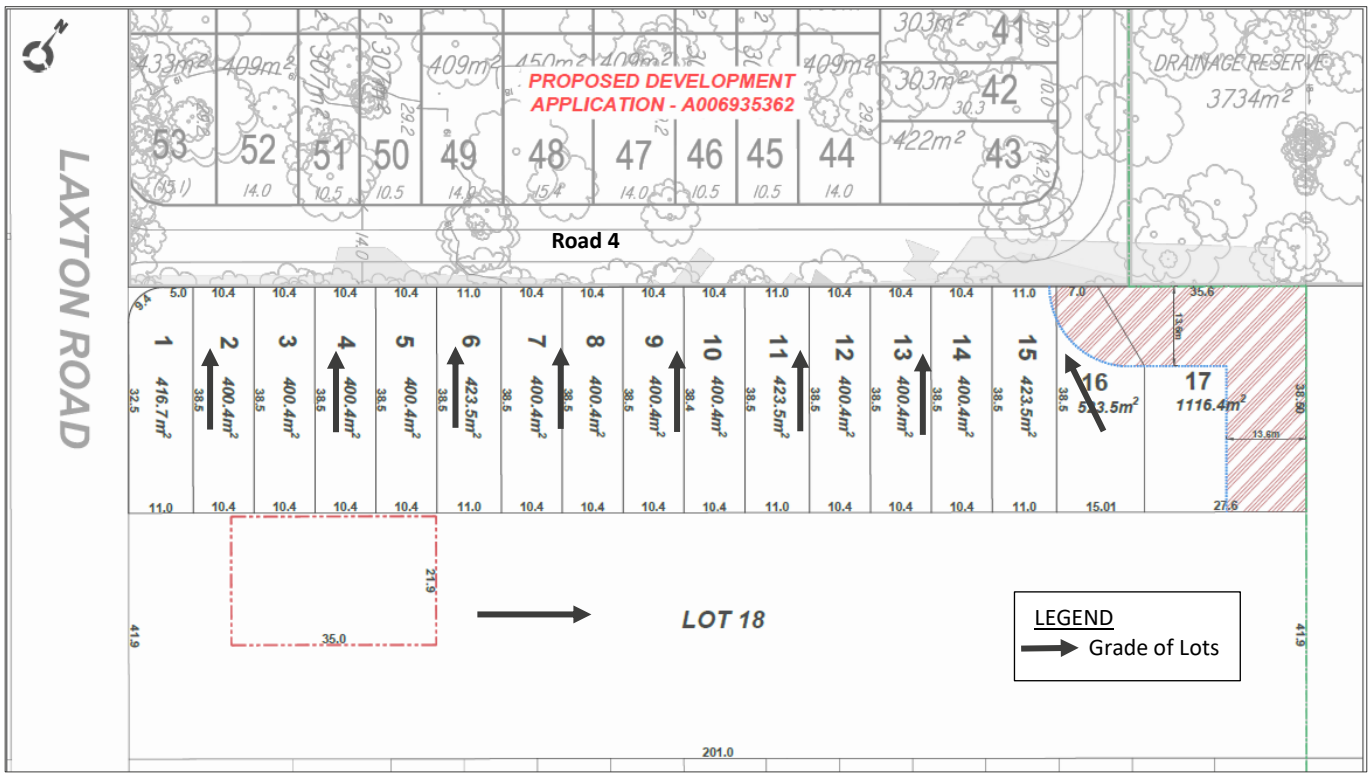

FIGURE 3.1: PROPOSED LAWFUL POINT OF DISCHARGE

3.2 Stormwater Quantity

On-site detention is not proposed to service the development due to the following reasons:

- The development is considered to be an infill development (with no new roads proposed), with all new lots fronting (and discharging to) Road 4 of the adjoining development (Application No: A006935362).
- Trunk drainage infrastructure is being proposed to service this area, from which the adjoining development (Application No: A006935362) is also reliant upon (and also is not recommending the provision of on-site detention).

In developing this site, it is acknowledged that it is reliant on the construction of Road 4 of the adjoining development.

Both this Site and the adjoining subdivisions will rely on the Local Government Infrastructure Plan ("LGIP") trunk stormwater drainage PALPN-001, 002, 008, 009, 003, 005, 006 & 007 (refer Appendix B). The report acknowledges that the subdivisions cannot proceed until relevant trunk drainage infrastructure is in place.

4. FLOODING

4.1 Oxley Creek

The Floodwise Property Report for 168 Laxton Road states 19.8m AHD as the 1% AEP flood level, which is understood to be based on the existing floodplain condition scenario. The Site Based Stormwater Management Plan (SBSMP) prepared by JFP (Rev B dated 28/07/2025) for the adjoining site at 136 and 152 Laxton Road (Application No: A006935362) identified that through discussions with Council, that the existing floodplain condition would be irrelevant once the site is developed and as such, the ultimate floodplain condition scenario should be used.

The 1% AEP flood levels for the ultimate floodplain condition scenario have been downloaded from BCC's Open Data portal (https://data.brisbane.qld.gov.au/pages/home/) and utilised for the creek flood assessment. The flood extent does not influence the Site, with flood levels in Oxley Creek, for setting freeboard ranges from 19.25 to 19.35m AHD as identified below in Figure 4.1.

Being creek flooding a minimum 0.3m freeboard be applied to each lot (19.55 to 19.65m AHD) and minimum 0.5m freeboard be applied to finished floor levels (19.75 to 19.85m AHD).



FIGURE 4.1: BCC ULTIMATE 1% AEP EXTENTS FOR OXLEY CREEK

4.2 Overland Flow

BCC interactive mapping of overland flow (refer Figure 4.2) highlights the Site is not influenced by overland flow. No further assessment in relation to flooding is required for this site.

Further assessment in relation to overland flow, was documented in the SBSMP prepared by JFP (Rev B dated 28/07/2025) for the adjoining site at 136 and 152 Laxton Road (Application No: A006935362). That SBSMP highlights hat the ultimate 2% AEP Overland Flow flood level is 19.90m AHD in Laxton Road. An excerpt of the Ultimate 2% AEP Overland Flow Levels from this report is provided in Figure 4.3.



FIGURE 4.2: BCC OVERLAND FLOW MAPPING



FIGURE 4.3: EXCERPT FROM ADJACENT SBSMP (JFP, 2026)

4.3 Flood Immunity

The recommended flooding immunity levels for the development has considered both flooding from Oxley Creek and Overland Flow (from SBSMP by JFP) and are outlined in Table 4.1.

TABLE 4.1: FLOOD IMMUNITY TABLE

	Creek Flooding (m AHD)	Overland Flow (m AHD)	Critical Flood Level (m AHD)	Min Pad RL (0.3m Freeboard) (m AHD)	Habitable Floor (0.5m freeboard) (m AHD)
Lot 1	19.35	19.90	19.90	20.20	20.40
Lots 2 to 10	19.35	-	19.35	19.65	19.85
Lots 11 to 17	19.25	-	19.25	19.55	19.75

5. CONCLUSION

Engeny had been engaged by Central Alliance Trustee No. 13 Pty Ltd to prepare a SMP for a proposed ROL application at 168 Laxton Road, Pallara. This SMP details the water quality, quantity and flooding outcomes for the Site to comply with the BCC Planning Scheme (2014).

Stormwater Quality

No formal water quality treatment devices are proposed for the Site. The layout for the Site does not propose any new road, with all lots fronting and gaining access onto Road 4, which is proposed as part of the adjoining development (Application No: A006935362). Flows from the Site will ultimately discharge into an open channel and a regional wetland (downslope of Vied Road).

Stormwater Quantity

The lawful point of discharge is proposed Road 4 of the adjoining development. On-site detention is not proposed for either subdivision given the connection to the trunk drainage.

Flooding

The site is not directly influenced by overland flow or Oxley Creek flooding. Adjacent overland flow and creek flood levels have used to set minimum lot and floor levels, as outlined in Table 4.1.

6. QUALIFICATIONS

(a) In preparing this document, including all relevant calculation, and modelling, Engeny Australia Pty Ltd (Engeny) has exercised the degree of skill, care and diligence normally exercised by members of the engineering profession and has acted in accordance with accepted practices of engineering principles.

(b) Engeny has used reasonable endeavours to inform itself of the parameters and requirements of the project and has taken reasonable steps to ensure that the works and document is as accurate and comprehensive as possible given the information upon which it has been based including information that may have been provided or obtained by any third party or external sources which has not been independently verified.

(c) Engeny reserves the right to review and amend any aspect of the works performed including any opinions and recommendations from the works included or referred to in the works if:

  (i) Additional sources of information not presently available (for whatever reason) are provided or become known to Engeny; or

  (ii) Engeny considers it prudent to revise any aspect of the works in light of any information which becomes known to it after the date of submission.

(d) Engeny does not give any warranty nor accept any liability in relation to the completeness or accuracy of the works, which may be inherently reliant upon the completeness and accuracy of the input data and the agreed scope of works. All limitations of liability shall apply for the benefit of the employees, agents, and representatives of Engeny to the same extent that they apply for the benefit of Engeny.

(e) This document is for the use of the party to whom it is addressed and for no other persons. No responsibility is accepted to any third party for the whole or part of the contents of this Report.

(f) If any claim or demand is made by any person against Engeny on the basis of detriment sustained or alleged to have been sustained as a result of reliance upon the Report or information therein, Engeny will rely upon this provision as a defence to any such claim or demand.

(g) This Report does not provide legal advice.

APPENDIX A: PROPOSED SITE LAYOUT PLAN

LAXTON ROAD

PROPOSED DEVELOPMENT
APPLICATION - A006935362

DRAINAGE RESERVE
3734m²

53	52	51	50	49	48	47	46	45	44	43	42	41
(15.1)	14.0	10.5	10.5	14.0	15.4	14.0	10.5	10.5	14.0	(14.2)	422m²	303m²
											30.3	303m²
												10.0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Front	5.0	10.4	10.4	10.4	10.4	11.0	10.4	10.4	10.4	10.4	11.0	10.4	10.4	10.4	11.0	7.0	35.6
Area	416.7m²	400.4m²	400.4m²	400.4m²	400.4m²	423.5m²	400.4m²	400.4m²	400.4m²	400.4m²	423.5m²	400.4m²	400.4m²	400.4m²	423.5m²	523.5m²	1116.4m²
Side	32.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.50
Rear	11.0	10.4	10.4	10.4	10.4	11.0	10.4	10.4	10.4	10.4	11.0	10.4	10.4	10.4	11.0	15.01	27.6

13.6m

13.6m

21.9

35.0

41.9

41.9

LOT 18

201.0

DEVELOPMENT YIELD		
FRONTAGE WIDTH	NO. LOTS	LOT SIZE
10.4m	11	400.4m²
11.0m	4	416.7 - 423.5m²
MISC	2	752.6 - 887.3m²
TOTAL	17	7,731.5m²

BUSHFIRE ZONING LAYERS	
ZONE/LAYER	
SOURCE OF BUSH FIRE HAZARD	
RADIANT HEAT FLUX CONTOUR	
APZ - NO BUILDINGS OR STRUCTURES OTHER THAN A FENCE, RETAINING WALL, DRIVEWAY OR SWIMMING POOL	

FOR DEVELOPMENT APPLICATION ONLY

REVISION	DESCRIPTION	BY	DATE
1	ORIGINAL ISSUE	H.F	19.03.2026
2	UPDATE LOT LAYOUT	H.F	10.06.2026
3	UPDATE LOT LAYOUT, BUSHFIRE LAYERS	H.F	25.08.2026
4	UPDATE SURROUNDING LOT REFERENCE	H.F	25.08.2026

PSA CONSULTING
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Address: PO Box 10824, Adelaide Street, Brisbane Qld 4000
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TOWN PLANNING | TRAFFIC ENGINEERING | TRANSPORT PLANNING | PROGRAM MANAGEMENT | INFRASTRUCTURE
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DRAWING TITLE: PROPOSED SUBDIVISION LAYOUT
CLIENT: CENTRAL ALLIANCE TRUST 13
PROJECT: PROPOSED SUBDIVISION
LOCATION: 168 LAXTON ROAD, PALLARA QLD 4110

DRAWING DATE: AUGUST 2026
ORIGINAL SIZE: A1 SCALE A3: 1:600
SCALE: 0 6 12 18m
SCALE 1:300 (A1)

DRAWN BY: H.F
CHECKED BY: P.H
APPROVED BY: P.H

PROJECT NO.	DRAWING NO.	REVISION
2052	SK01	4

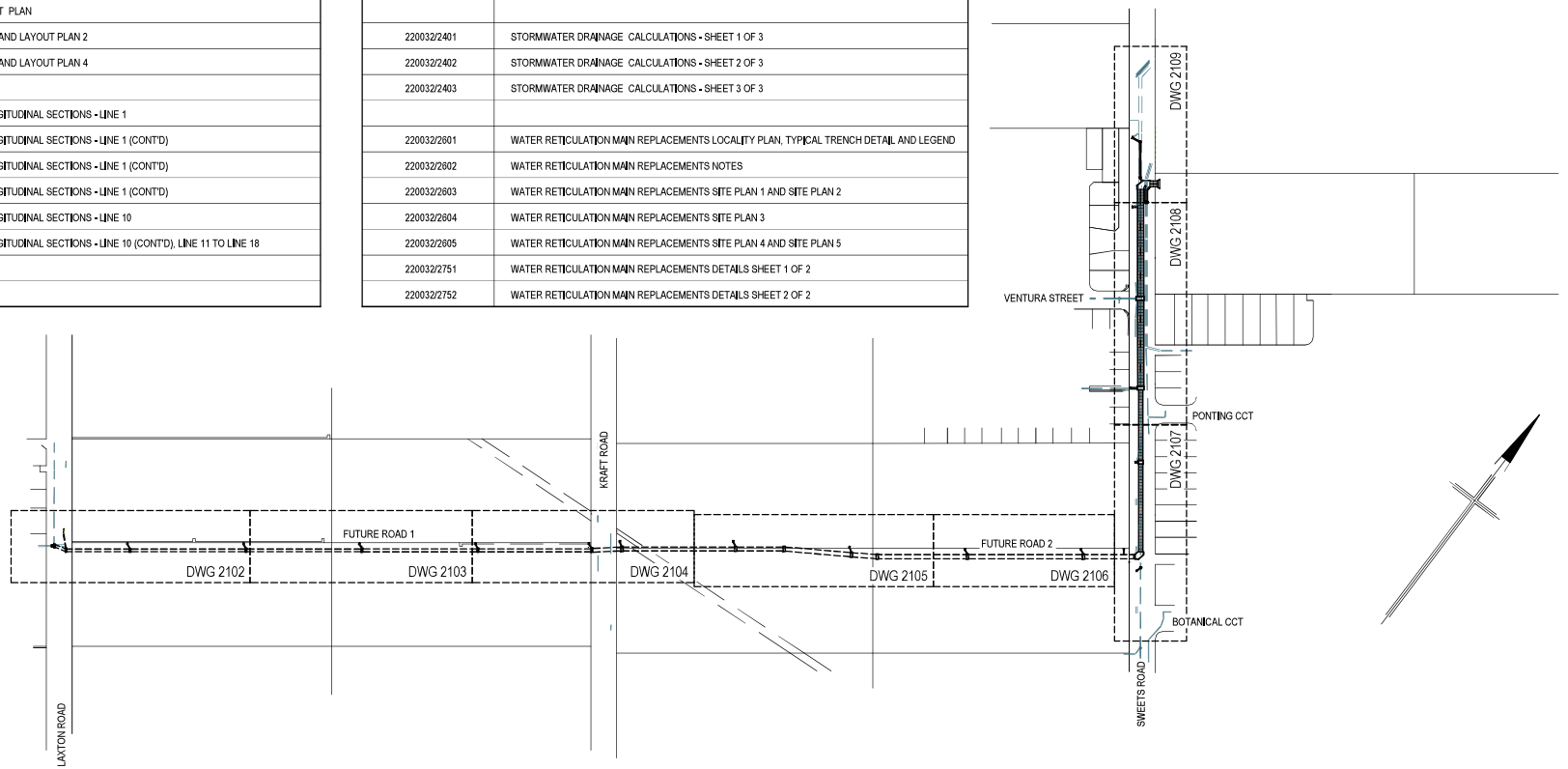
APPENDIX B: LGIP TRUNK DRAINAGE PLANS

DRAWING INDEX

SHEET No.	DRAWING DESCRIPTION
220032/2101	OVERALL DRAINAGE LAYOUT PLAN AND DRAWING INDEX
220032/2102	STORMWATER DRAINAGE LAYOUT PLAN 1 (FUTURE DRAINAGE)
220032/2103	STORMWATER DRAINAGE LAYOUT PLAN 2 (FUTURE DRAINAGE)
220032/2104	STORMWATER DRAINAGE LAYOUT PLAN 3 (FUTURE DRAINAGE)
220032/2105	STORMWATER DRAINAGE LAYOUT PLAN 4 (FUTURE DRAINAGE)
220032/2106	STORMWATER DRAINAGE LAYOUT PLAN 5 (FUTURE DRAINAGE)
220032/2107	STORMWATER DRAINAGE LAYOUT PLAN 6
220032/2108	STORMWATER DRAINAGE LAYOUT PLAN 7
220032/2109	STORMWATER DRAINAGE LAYOUT PLAN 8
220032/2110	OVERALL ROADWORKS LAYOUT PLAN
220032/2111	ROADWORKS LAYOUT PLAN 1 AND LAYOUT PLAN 2
220032/2112	ROADWORKS LAYOUT PLAN 3 AND LAYOUT PLAN 4
220032/2113	ROADWORKS LAYOUT PLAN 5
220032/2201	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - LINE 1
220032/2202	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - LINE 1 (CONT'D)
220032/2203	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - LINE 1 (CONT'D)
220032/2204	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - LINE 1 (CONT'D)
220032/2205	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - LINE 10
220032/2206	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - LINE 10 (CONT'D), LINE 11 TO LINE 18

DRAWING INDEX

SHEET No.	DRAWING DESCRIPTION
220032/2208	ROADWORKS LONGITUDINAL SECTIONS - ROAD 1 - SHEET 1 OF 2
220032/2209	ROADWORKS LONGITUDINAL SECTIONS - ROAD 1 - SHEET 2 OF 2
220032/2210	ROADWORKS LONGITUDINAL SECTIONS - ROAD 2 - SHEET 1 OF 2
220032/2211	ROADWORKS LONGITUDINAL SECTIONS - ROAD 2 - SHEET 2 OF 2
220032/2301	STORMWATER DRAINAGE MANHOLE DETAILS - SHEET 1 OF 4
220032/2302	STORMWATER DRAINAGE MANHOLE DETAILS - SHEET 2 OF 4
220032/2303	STORMWATER DRAINAGE MANHOLE DETAILS - SHEET 3 OF 4
220032/2304	STORMWATER DRAINAGE MANHOLE DETAILS - SHEET 4 OF 4
220032/2401	STORMWATER DRAINAGE CALCULATIONS - SHEET 1 OF 3
220032/2402	STORMWATER DRAINAGE CALCULATIONS - SHEET 2 OF 3
220032/2403	STORMWATER DRAINAGE CALCULATIONS - SHEET 3 OF 3
220032/2601	WATER RETICULATION MAIN REPLACEMENTS LOCALITY PLAN, TYPICAL TRENCH DETAIL AND LEGEND
220032/2602	WATER RETICULATION MAIN REPLACEMENTS NOTES
220032/2603	WATER RETICULATION MAIN REPLACEMENTS SITE PLAN 1 AND SITE PLAN 2
220032/2604	WATER RETICULATION MAIN REPLACEMENTS SITE PLAN 3
220032/2605	WATER RETICULATION MAIN REPLACEMENTS SITE PLAN 4 AND SITE PLAN 5
220032/2751	WATER RETICULATION MAIN REPLACEMENTS DETAILS SHEET 1 OF 2
220032/2752	WATER RETICULATION MAIN REPLACEMENTS DETAILS SHEET 2 OF 2



OVERALL DRAINAGE LAYOUT PLAN

SCALE 1:2000 (A1)

50 0 50 100 150 200 METRES

SCALE 1 : 2000 (BEFORE REDUCTION)

FOR EXISTING DRAINAGE, REFER:- WP62924, WP64385, WP63959, WP62950, WP63959

FOR CONSTRUCTION

City Projects Office
Brisbane City Council

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Green Square
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Fortitude Valley, Q 4006

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	ISSUE FOR CONSTRUCTION	NOV '22	A.G.D.	

SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK
NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

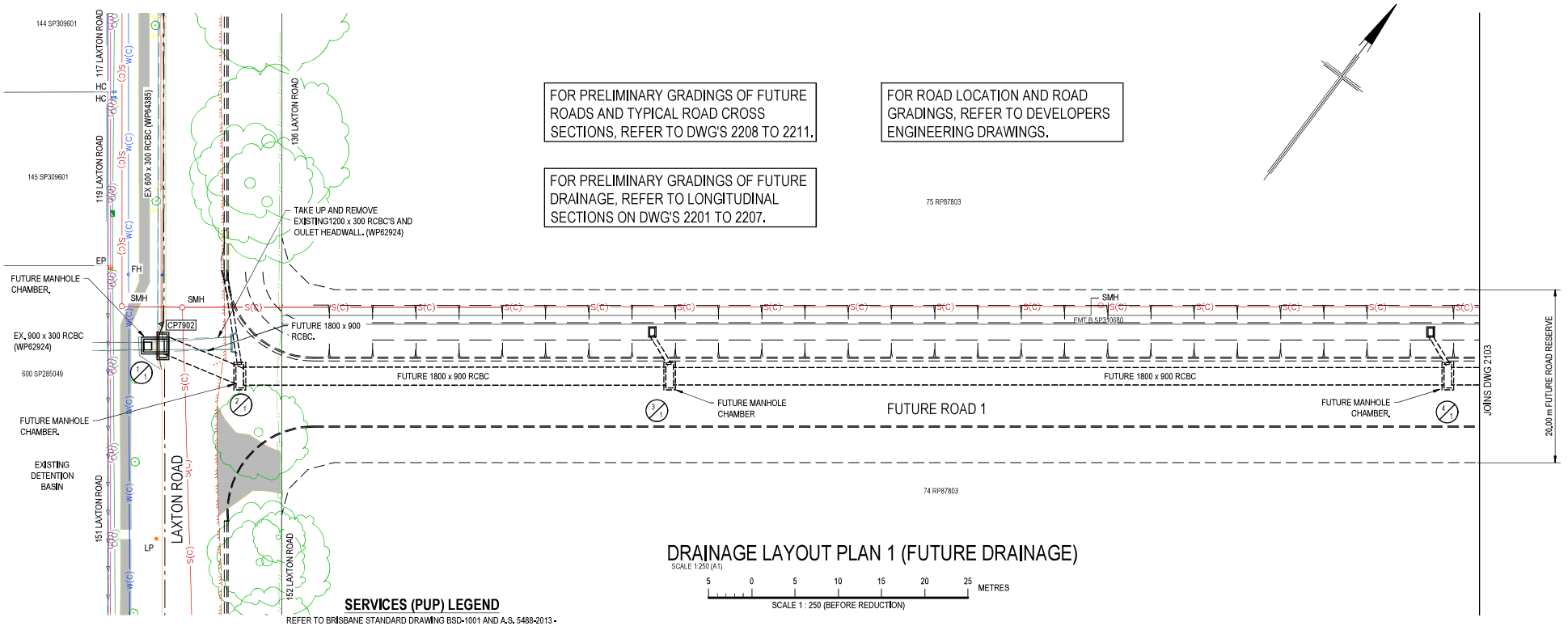
PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO 132
SWEETS ROAD

TITLE
OVERALL DRAINAGE LAYOUT PLAN AND DRAWING INDEX

SECURITY LABEL: FOR OFFICIAL USE ONLY

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

AUTHORISED FOR ISSUE
REFERENCE NO.
SCALE 1:2000
ORIG. SIZE A1
PROJECT NUMBER / SHEET 220032 / 2101
ISSUE 1



DRAINAGE LAYOUT PLAN 1 (FUTURE DRAINAGE)

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220932FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
(A) - ABSOLUTE SPATIAL POSITION - X,Y,Z ATTRIBUTES AT LOCATION POINTS (E.G. CO-ORDINATED SURVEY DATA - MGA DERIVED).
(B) - VISUAL POSITION - LOCATED AND DEPTHED (SERVICE LOCATOR).
(C) - APPROXIMATE LOCATION FROM VERIFIED D,B,Y,D, RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011). MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
4. NOT WITHSTANDING THAT THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, PIPES, POLES, MANHOLES, ETC. THAT MAY BE INDICATED ON THE DRAWINGS, NO RESPONSIBILITY WILL BE ACCEPTED BY THE PRINCIPAL FOR THE ACCURACY OF THE REPRESENTATION OR THE OMISSION THEREOF. CONTACT 'QLD DIAL BEFORE YOU DIG' BY PHONE ON 1100 FOR THE LOCATION OF EXTERNAL AUTHORITIES' ASSETS.
5. WHERE POSITION OF SERVICES IS CRITICAL THE CONTRACTOR IS TO NOTIFY SERVICE AUTHORITY AND LOCATE ON SITE PRIOR TO CONSTRUCTION.
6. WORKS TO BE IN ACCORDANCE WITH AN APPROVED ENVIRONMENTAL MANAGEMENT PLAN.
7. UNLESS NOTED OTHERWISE, ALL ABANDONED PIPES TO BE FILLED WITH FLOWABLE CONCRETE FILL.
8. FOR STORMWATER MAINTENANCE HOLES BETWEEN 3.0 m DEEP AND 5.0 m DEEP REFER TO TMR STANDARD DRAWING 1307.
   FOR TYPE 'A' LIP IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1311.
   FOR TYPE 'A' KERB IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1312.
   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
CP4	51365.381	142613.031	16.658
CP7	51185.790	142638.379	16.384
CP7900	50371.290	141822.731	20.889
CP7901	50459.048	141697.917	19.572
CP7902	50419.431	141758.601	19.265
CP7903	50767.356	142011.133	18.315
CP7904	50812.520	141937.048	18.780
CP7905	50813.308	141949.079	18.842
CP7906	50693.847	142095.170	18.171
CP7907	50720.836	142079.847	17.785
CP7920	51042.336	142349.302	17.339
CP7921	51139.19	142217.870	17.704
CP7922	51052.841	142313.002	17.044

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INFORMATION ONLY

PRELIMINARY

City Projects Office
Brisbane City Council
MAILING ADDRESS: GPO Box 1434 Brisbane Qld 4001
Green Square South Tower 505 St. Pauls Terrace Fortitude Valley, Q 4006
e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
PR1	FOR INFORMATION ONLY	NOV '22	A.G.D.	

DATA INFORMATION
Brisbane City Council (unless stated below)
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Contours © 2012 AAM Group
2009 Aerial Imagery © 2009 Pitney Bowes Inc
2009 Pictometry © 2009 Intermap Pty Limited
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2006 Aerial Imagery © 2006 AAM Pty Limited
2005 Aerial Imagery © 2007 Fugro Spatial Solutions
2005 Aerial Imagery © 2005 QASCO
2011 Street map © 2009 Whereis Publishing

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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE
LAYOUT PLAN 1
(FUTURE DRAINAGE)

SECURITY LABEL: FOR OFFICIAL USE ONLY

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

AUTHORISED FOR ISSUE

REFERENCE NO.

SCALE 1:250 ORIG. AS A1

PROJECT NUMBER / SHEET 220032 / 2102

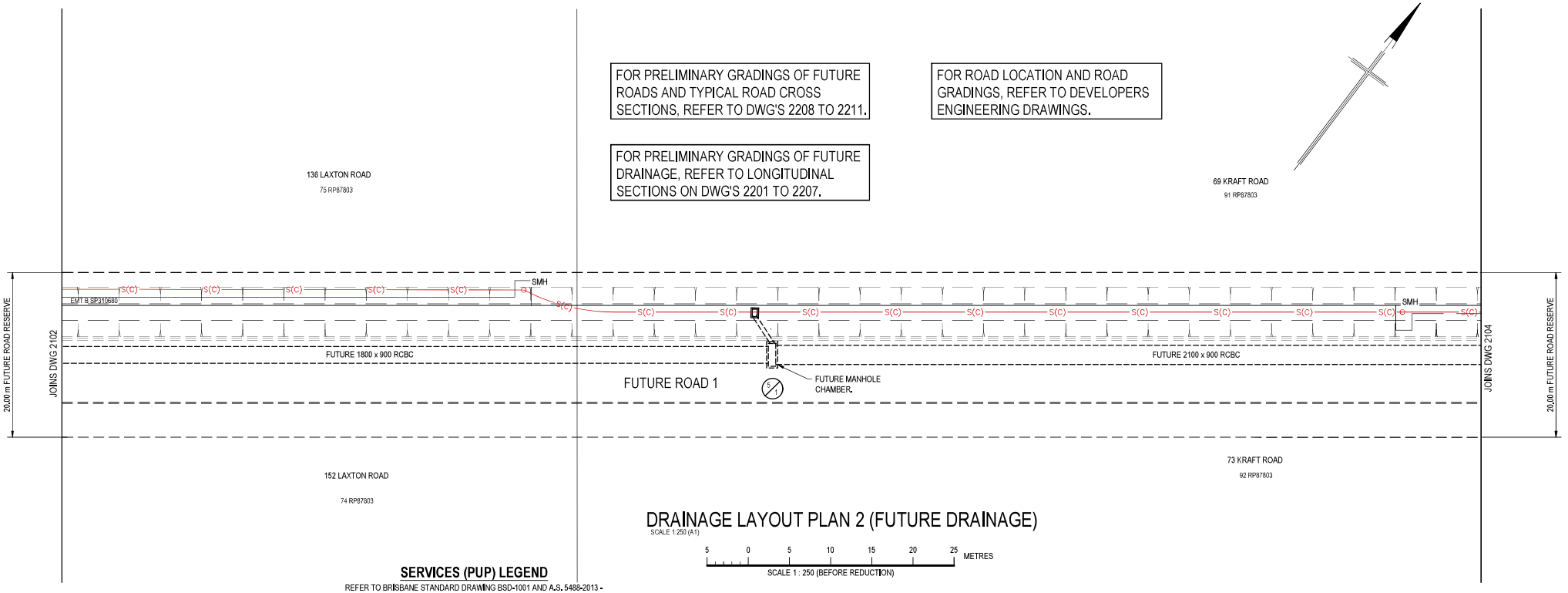
ISSUE PR1

NOT FOR CONSTRUCTION

FOR PRELIMINARY GRADINGS OF FUTURE ROADS AND TYPICAL ROAD CROSS SECTIONS, REFER TO DWG'S 2208 TO 2211.

FOR ROAD LOCATION AND ROAD GRADINGS, REFER TO DEVELOPERS ENGINEERING DRAWINGS.

FOR PRELIMINARY GRADINGS OF FUTURE DRAINAGE, REFER TO LONGITUDINAL SECTIONS ON DWG'S 2201 TO 2207.



DRAINAGE LAYOUT PLAN 2 (FUTURE DRAINAGE)

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

////// DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
(A) - ABSOLUTE SPATIAL POSITION - X,Y,Z ATTRIBUTES AT LOCATION POINTS (E.G. CO-ORDINATED SURVEY DATA - MGA DERIVED).
(B) - VISUAL POSITION - LOCATED AND DEPTHED (SERVICE LOCATOR).
(C) - APPROXIMATE LOCATION FROM VERIFIED D,B,Y,D. RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011). MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
4. NOT WITHSTANDING THAT THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, PIPES, POLES, MANHOLES, ETC. THAT MAY BE INDICATED ON THE DRAWINGS, NO RESPONSIBILITY WILL BE ACCEPTED BY THE PRINCIPAL FOR THE ACCURACY OF THE REPRESENTATION OR THE OMISSION THEREOF. CONTACT 'QLD DIAL BEFORE YOU DIG' BY PHONE ON 1100 FOR THE LOCATION OF EXTERNAL AUTHORITIES' ASSETS.
5. WHERE POSITION OF SERVICES IS CRITICAL THE CONTRACTOR IS TO NOTIFY SERVICE AUTHORITY AND LOCATE ON SITE PRIOR TO CONSTRUCTION.
6. WORKS TO BE IN ACCORDANCE WITH AN APPROVED ENVIRONMENTAL MANAGEMENT PLAN.
7. UNLESS NOTED OTHERWISE, ALL ABANDONED PIPES TO BE FILLED WITH FLOWABLE CONCRETE FILL.
8. FOR STORMWATER MAINTENANCE HOLES BETWEEN 3.0 m DEEP AND 5.0 m DEEP REFER TO TMR STANDARD DRAWING 1307.
   FOR TYPE 'A' LIP IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1311.
   FOR TYPE 'A' KERB IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1312.
   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
CP4	51365.381	142613.031	16.658
CP7	51185.790	142638.379	16.384
CP7900	50371.290	141822.731	20.889
CP7901	50459.048	141697.917	19.572
CP7902	50419.431	141758.601	19.265
CP7903	50767.356	142011.133	18.315
CP7904	50812.520	141937.048	18.780
CP7905	50813.308	141949.079	18.842
CP7906	50693.847	142095.170	18.171
CP7907	50720.836	142079.847	17.785
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CP7921	51139.19	142217.870	17.704
CP7922	51052.841	142313.002	17.044

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DATA INFORMATION
Brisbane City Council has obtained digital Contour data from the Department of Natural Resources and Mines Contours © 2021 Aerometrex
Cadastre data © 2021 Aerometrex
Orthophoto digital aerial data © 2016 Pitney Bowes Inc
2020 Nearmap © 2020 Nearmap Pty Limited
2012 – 2016 Aerial Imagery © 2011 AAMHatch Pty Limited
2018 Aerial Imagery © 2018 AAMHatch Pty Limited
2007 Aerial Imagery © 2007 Fugro Spatial Solutions
2005 Aerial Imagery © 2005 SAMCO
2014 Railway street map © 2009 MANay Publishing

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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE
LAYOUT PLAN 2
(FUTURE DRAINAGE)

SECURITY LABEL: FOR OFFICIAL USE ONLY

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

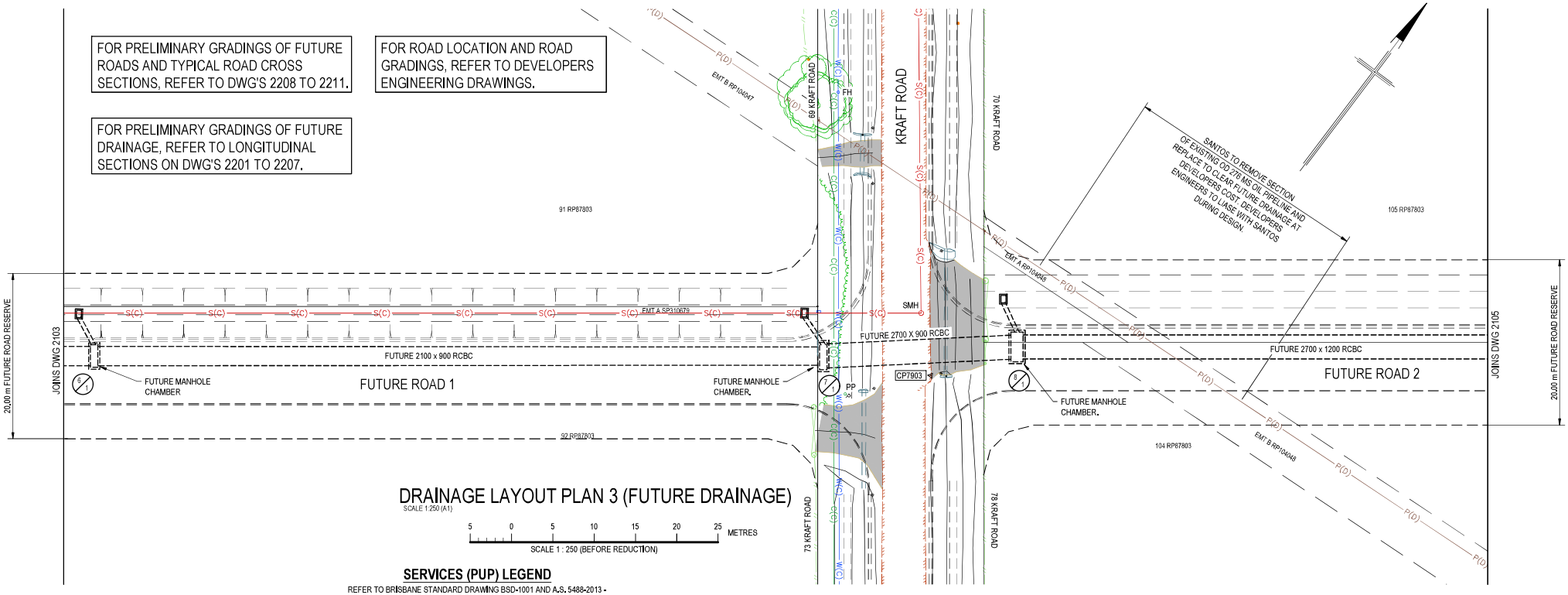
AUTHORISED FOR ISSUE
REFERENCE NO.
SCALE 1:250 ORIG. SIZE A1
PROJECT NUMBER / SHEET 220032 / 2103
ISSUE PR1

NOT FOR CONSTRUCTION

FOR PRELIMINARY GRADINGS OF FUTURE ROADS AND TYPICAL ROAD CROSS SECTIONS, REFER TO DWG'S 2208 TO 2211.

FOR ROAD LOCATION AND ROAD GRADINGS, REFER TO DEVELOPERS ENGINEERING DRAWINGS.

FOR PRELIMINARY GRADINGS OF FUTURE DRAINAGE, REFER TO LONGITUDINAL SECTIONS ON DWG'S 2201 TO 2207.



DRAINAGE LAYOUT PLAN 3 (FUTURE DRAINAGE)

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

////// DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
(A) - ABSOLUTE SPATIAL POSITION - X,Y,Z ATTRIBUTES AT LOCATION POINTS (E.G. CO-ORDINATED SURVEY DATA - MGA DERIVED).
(B) - VISUAL POSITION - LOCATED AND DEPTHED (SERVICE LOCATOR).
(C) - APPROXIMATE LOCATION FROM VERIFIED D,B,Y,D. RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011). MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
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8. FOR STORMWATER MAINTENANCE HOLES BETWEEN 3.0 m DEEP AND 5.0 m DEEP REFER TO TMR STANDARD DRAWING 1307.
   FOR TYPE 'A' LIP IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1311.
   FOR TYPE 'A' KERB IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1312.
   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
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CP7921	51139.19	142217.870	17.704
CP7922	51052.841	142313.002	17.044

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Brisbane City Council
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Green Square South Tower 505 St. Pauls Terrace Fortitude Valley, Q 4006
e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
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DATA INFORMATION
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Contains digital Elevation data © 2016 Pitney Bowes Inc
2021 Nearmap © 2020 Nearmap Pty Limited
2012 – 2016 Aerial Imagery © 2021 AAMHatch Pty Limited
2005 Aerial Imagery © 2005 Fugro Spatial Solutions
2005 Aerial Imagery © 2005 SKM
2014 Oblique Aerial Imagery © 2009 Mosaic Publishing

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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK
NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE
LAYOUT PLAN 3
(FUTURE DRAINAGE)

SECURITY LABEL: FOR OFFICIAL USE ONLY

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

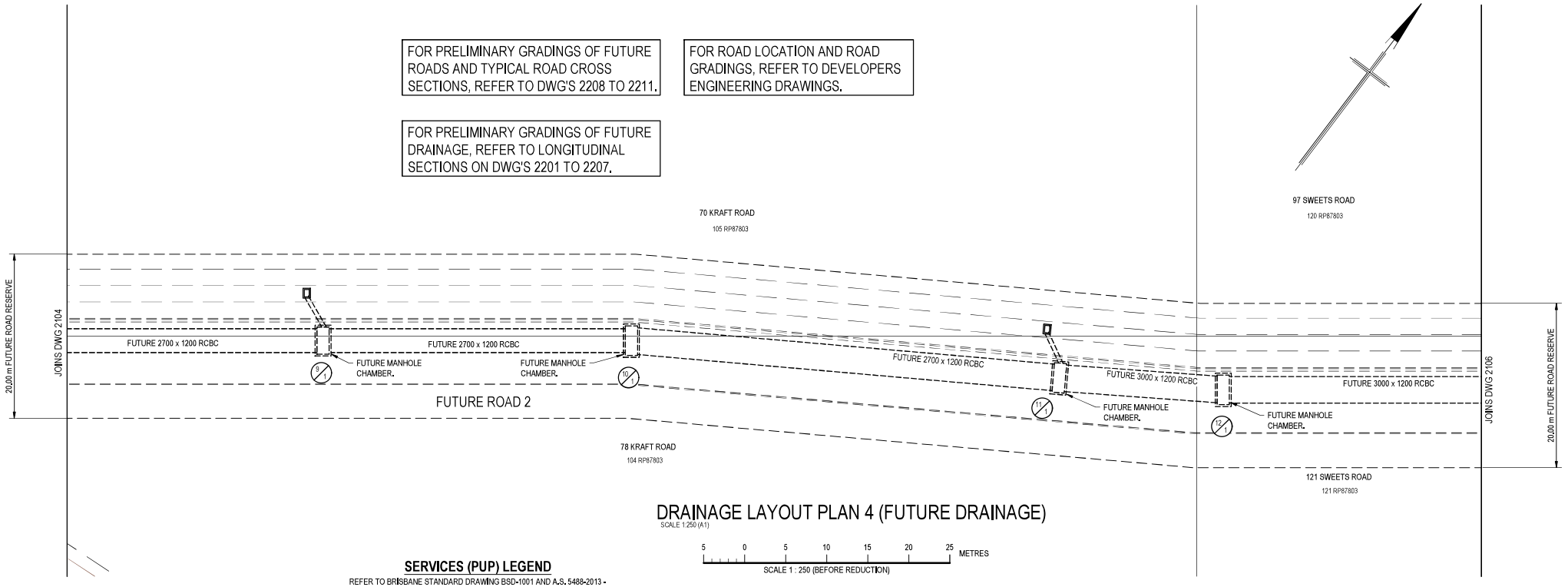
AUTHORISED FOR ISSUE
REFERENCE NO.
SCALE 1:250
ORIG. SIZE A1
PROJECT NUMBER / SHEET 220032 / 2104
ISSUE PR1

NOT FOR CONSTRUCTION

FOR PRELIMINARY GRADINGS OF FUTURE ROADS AND TYPICAL ROAD CROSS SECTIONS, REFER TO DWG'S 2208 TO 2211.

FOR ROAD LOCATION AND ROAD GRADINGS, REFER TO DEVELOPERS ENGINEERING DRAWINGS.

FOR PRELIMINARY GRADINGS OF FUTURE DRAINAGE, REFER TO LONGITUDINAL SECTIONS ON DWG'S 2201 TO 2207.



DRAINAGE LAYOUT PLAN 4 (FUTURE DRAINAGE)

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

////// DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
(A) - ABSOLUTE SPATIAL POSITION - X,Y,Z ATTRIBUTES AT LOCATION POINTS (E.G. CO-ORDINATED SURVEY DATA - MGA DERIVED).
(B) - VISUAL POSITION - LOCATED AND DEPTHED (SERVICE LOCATOR).
(C) - APPROXIMATE LOCATION FROM VERIFIED D,B,Y,D. RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011), MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
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   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
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CP7	51185.790	142638.379	16.384
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Brisbane City Council
MAILING ADDRESS: GPO Box 1434 Brisbane Qld 4001
Green Square South Tower 505 St. Pauls Terrace Fortitude Valley, Q 4006
e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
PR1	FOR INFORMATION ONLY	NOV '22	A.G.D.	

DATA INFORMATION
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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE LAYOUT PLAN 4 (FUTURE DRAINAGE)

SECURITY LABEL: FOR OFFICIAL USE ONLY

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

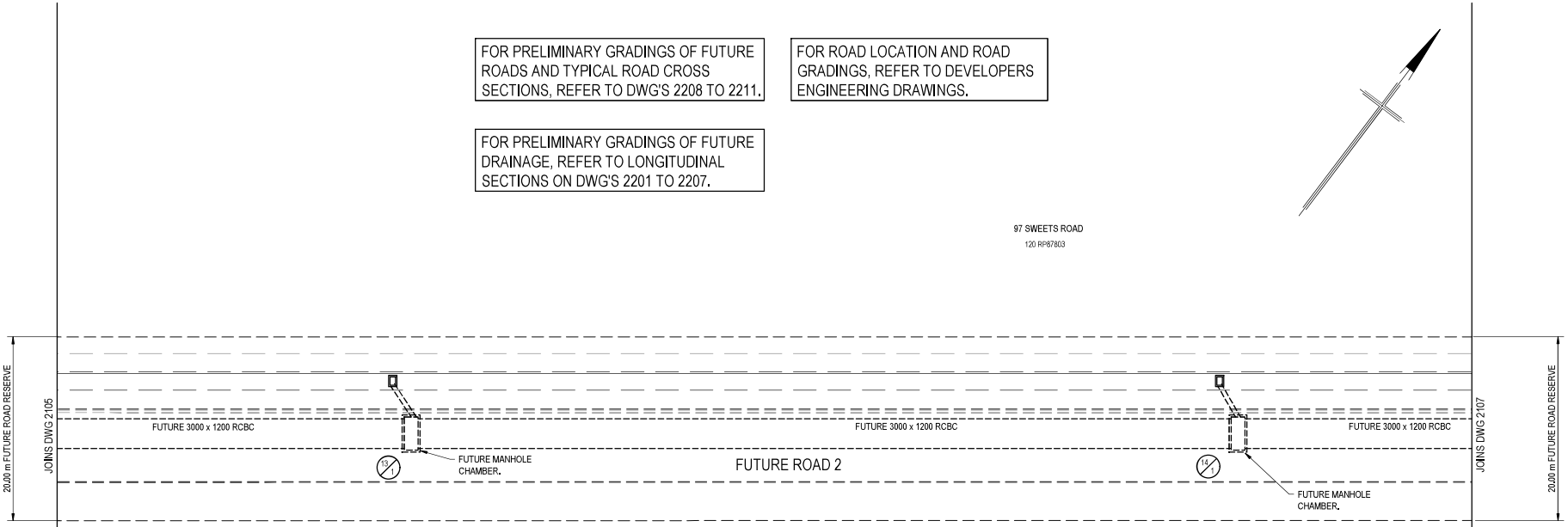
AUTHORISED FOR ISSUE
REFERENCE NO.
SCALE 1:250
ORIG. SIZE A1
PROJECT NUMBER / SHEET 220032 / 2105
ISSUE PR1

NOT FOR CONSTRUCTION

FOR PRELIMINARY GRADINGS OF FUTURE ROADS AND TYPICAL ROAD CROSS SECTIONS, REFER TO DWG'S 2208 TO 2211.

FOR ROAD LOCATION AND ROAD GRADINGS, REFER TO DEVELOPERS ENGINEERING DRAWINGS.

FOR PRELIMINARY GRADINGS OF FUTURE DRAINAGE, REFER TO LONGITUDINAL SECTIONS ON DWG'S 2201 TO 2207.



DRAINAGE LAYOUT PLAN 5 (FUTURE DRAINAGE)

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

////// DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
(A) - ABSOLUTE SPATIAL POSITION - X,Y,Z ATTRIBUTES AT LOCATION POINTS (E.G. CO-ORDINATED SURVEY DATA - MGA DERIVED).
(B) - VISUAL POSITION - LOCATED AND DEPTHED (SERVICE LOCATOR).
(C) - APPROXIMATE LOCATION FROM VERIFIED D,B,Y,D. RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011). MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
4. NOT WITHSTANDING THAT THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, PIPES, POLES, MANHOLES, ETC. THAT MAY BE INDICATED ON THE DRAWINGS, NO RESPONSIBILITY WILL BE ACCEPTED BY THE PRINCIPAL FOR THE ACCURACY OF THE REPRESENTATION OR THE OMISSION THEREOF. CONTACT 'QLD DIAL BEFORE YOU DIG' BY PHONE ON 1100 FOR THE LOCATION OF EXTERNAL AUTHORITIES' ASSETS.
5. WHERE POSITION OF SERVICES IS CRITICAL THE CONTRACTOR IS TO NOTIFY SERVICE AUTHORITY AND LOCATE ON SITE PRIOR TO CONSTRUCTION.
6. WORKS TO BE IN ACCORDANCE WITH AN APPROVED ENVIRONMENTAL MANAGEMENT PLAN.
7. UNLESS NOTED OTHERWISE, ALL ABANDONED PIPES TO BE FILLED WITH FLOWABLE CONCRETE FILL.
8. FOR STORMWATER MAINTENANCE HOLES BETWEEN 3.0 m DEEP AND 5.0 m DEEP REFER TO TMR STANDARD DRAWING 1307.
   FOR TYPE 'A' LIP IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1311.
   FOR TYPE 'A' KERB IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1312.
   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
CP4	51365.381	142613.031	16.658
CP7	51185.790	142638.379	16.384
CP7900	50371.290	141822.731	20.889
CP7901	50459.048	141697.917	19.572
CP7902	50419.431	141758.601	19.265
CP7903	50767.356	142011.133	18.315
CP7904	50812.520	141937.048	18.780
CP7905	50813.308	141949.079	18.842
CP7906	50693.847	142095.170	18.171
CP7907	50720.836	142079.847	17.785
CP7920	51042.336	142349.302	17.339
CP7921	51139.19	142217.870	17.704
CP7922	51052.841	142313.002	17.044

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INFORMATION ONLY

PRELIMINARY

NOT FOR CONSTRUCTION

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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE
LAYOUT PLAN 5
FUTURE DRAINAGE

SECURITY LABEL: FOR OFFICIAL USE ONLY

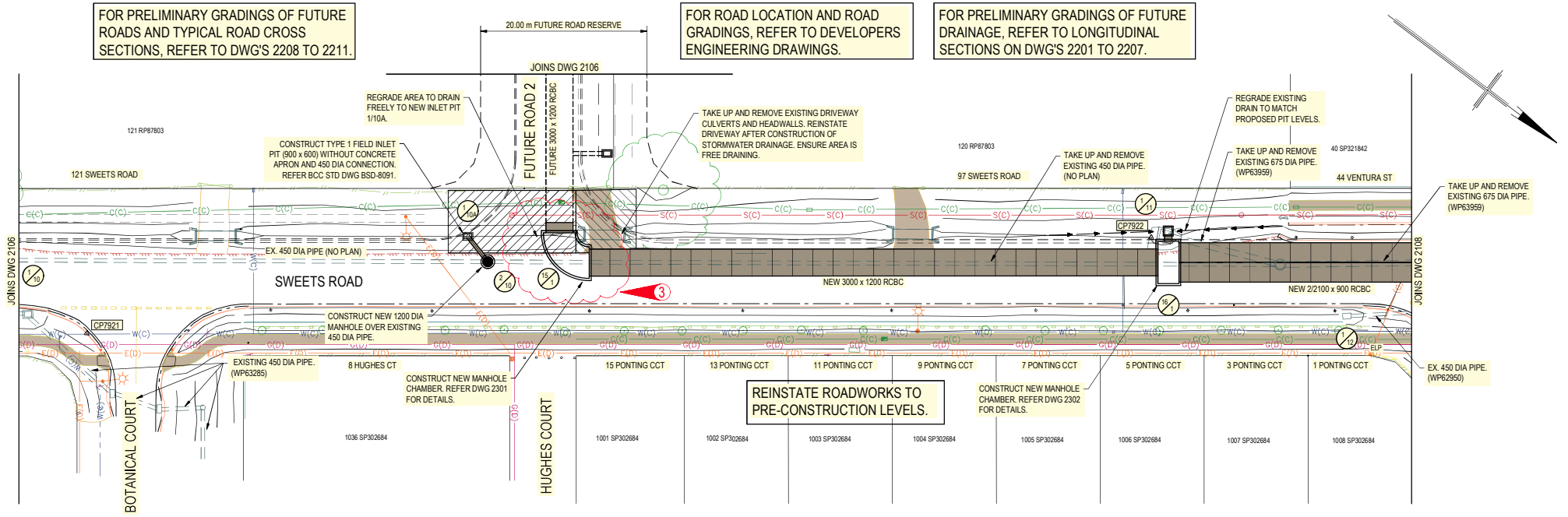
DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

AUTHORISED FOR ISSUE
REFERENCE NO.
SCALE 1:250
ORIG. SIZE A1
PROJECT NUMBER / SHEET 220032 / 2106
ISSUE PR1

FOR PRELIMINARY GRADINGS OF FUTURE ROADS AND TYPICAL ROAD CROSS SECTIONS, REFER TO DWG'S 2208 TO 2211.

FOR ROAD LOCATION AND ROAD GRADINGS, REFER TO DEVELOPERS ENGINEERING DRAWINGS.

FOR PRELIMINARY GRADINGS OF FUTURE DRAINAGE, REFER TO LONGITUDINAL SECTIONS ON DWG'S 2201 TO 2207.



DRAINAGE LAYOUT PLAN 6

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

DRAINAGE SETOUT CO-ORDINATES

No.	EASTING	NORTHING	DESCRIPTION
15/1	51098.139	142258.049	MANHOLE CHAMBER. REFER DWG 2301 FOR DETAILS
16/1	51053.983	142316.426	MANHOLE CHAMBER. REFER DWG 2301 FOR DETAILS
2/10	51103.252	142251.123	1200 DIA MANHOLE
1/10A	51102.262	142247.386	TYPE 1 FIELD INLET PIT. (900 x 600)

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
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(C) - APPROXIMATE LOCATION FROM VERIFIED D.B.Y.D. RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011). MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
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8. FOR STORMWATER MAINTENANCE HOLES BETWEEN 3.0 m DEEP AND 5.0 m DEEP REFER TO TMR STANDARD DRAWING 1307.
   FOR TYPE 'A' LIP IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1311.
   FOR TYPE 'A' KERB IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1312.
   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
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CP7921	51139.19	142217.870	17.704
CP7922	51052.841	142313.002	17.044

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FOR WATER MAIN RELOCATION DETAILS, REFER TO DWG's 2601 TO 2752.

FOR CONSTRUCTION

City Projects Office
Brisbane City Council
MAILING ADDRESS: GPO Box 1434 Brisbane Qld 4001
Green Square South Tower 505 St. Paul's Terrace Fortitude Valley, Q 4006
e-mail: cityprojects@brisbane.qld.gov.au

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	CONSTRUCTION ISSUE	NOV '22	A.G.D.	K.A.
2	PIPE SIZE AMENDED	FEB '23	A.G.D.	T.A.B.
3	MH 15/1 AMENDED	OCT '23	A.G.D.	TAB

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2009 Aerial Imagery © 2005 AAMHatch Pty Limited
2007 Aerial Imagery © 2007 Fugro Spatial Solutions
2005 Aerial Imagery © 2005 CASCO
2014 Bikeway street map © 2009 Melway Publishing

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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

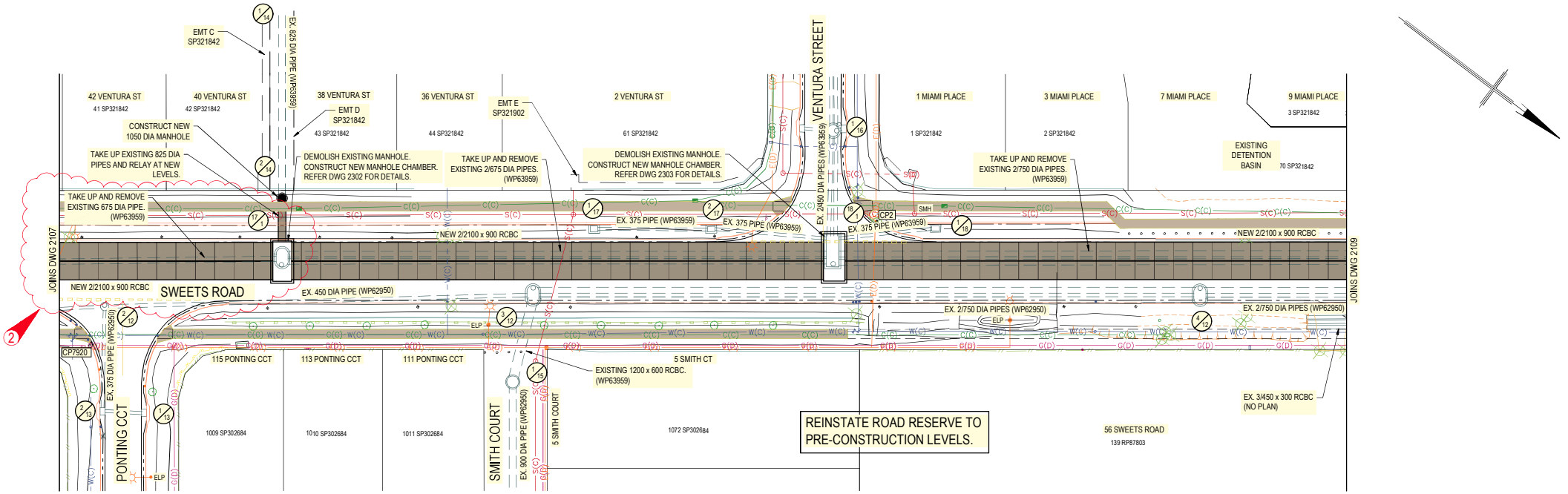
SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE LAYOUT PLAN 6

SECURITY LABEL: FOR OFFICIAL USE ONLY

DESIGN ORIGINAL SIGNED BY:	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
AUTHORISED FOR ISSUE ORIGINAL SIGNED BY:		REFERENCE NO.	
KHAIRUL ALAM	11/12/2022	RPEQ 17014	
SCALE	1:250	ORIG. SIZE	A1
PROJECT NUMBER / SHEET	220032 / 2107	ISSUE	3



DRAINAGE LAYOUT PLAN 7

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

DRAINAGE SETOUT CO-ORDINATES

No.	EASTING	NORTHING	DESCRIPTION
17/1	51019.370	142362.187	MANHOLE CHAMBER. REFER DWG 2302 FOR DETAILS
18/1	50977.356	142417.732	MANHOLE CHAMBER. REFER DWG 2303 FOR DETAILS

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

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(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

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SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
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GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

CONTROL POINT CO-ORDINATES

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CP7922	51052.841	142313.002	17.044

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FOR CONSTRUCTION

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	CONSTRUCTION ISSUE	NOV '22	A.G.D.	K.A.
2	PIPE SIZE AMENDED	FEB '23	A.G.D.	TAH

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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK
NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE LAYOUT PLAN 7

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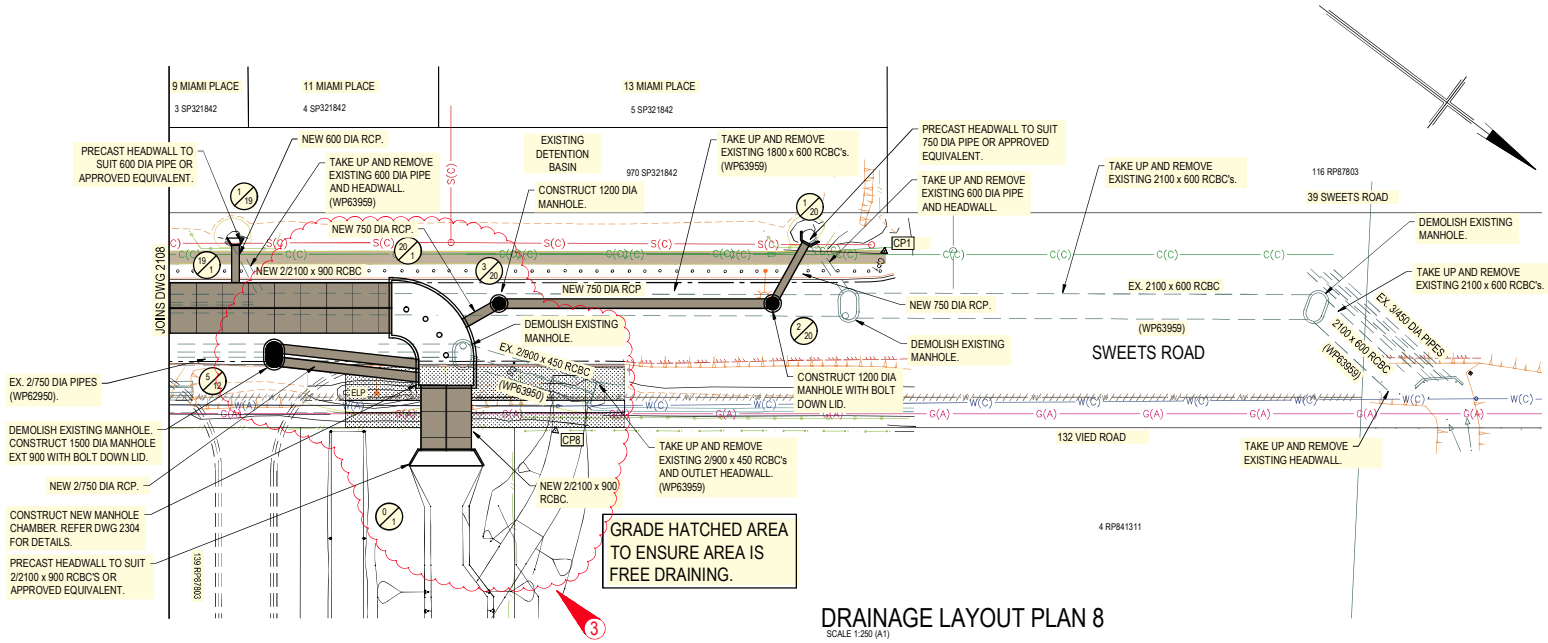
REFERENCE NO.
SCALE 1:250
ORIG. SIZE A1
PROJECT NUMBER / SHEET 220032 / 2108
ISSUE 2



DRAINAGE LAYOUT PLAN 8

SCALE 1:250 (A1)

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

REFER TO PROJECT No 190580 FOR DETAILS OF OUTLET PROTECTION, VEGETATED CHANNEL AND WETLANDS.

SURVEY LEGEND

CONTROL SPOT	CS
CONTROL POINT	CP
FIRE HYDRANT	FH
WATER VALVE	WV
SEWERAGE MANHOLE	SMH
WATER METER PIT	MT
COMMUNICATIONS PIT	TPIT
COMMUNICATIONS PILLAR	TPIL
ELECTRICITY PILLAR	EPIL
TRAFFIC LIGHT	TRL
GAS VALVE	GV
POWER POLE	PP
LIGHT POLE	PPL
BOREHOLES REFER TRIM DOCUMENTS: 220032FR001A	BH01/14
EDGE OF BITUMEN	
GUARD RAIL	
FENCE	
CONCRETE SLAB EDGE	

SERVICES (PUP) LEGEND

REFER TO BRISBANE STANDARD DRAWING BSD-1001 AND A.S. 5488-2013 - CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI), DATED 2013.

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	C
DRAINAGE (unknown dia.)	D(*)	D
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
ELECTRICITY 33kV	E33kV(*)	E33kV
ELECTRICITY 110kV	E110kV(*)	E110kV
O/H ELECTRICITY		
O/H COMMUNICATIONS		
STREETLIGHTING DUCTING	E(*)	SL
SIGNALS DUCTING		
ITS DUCTING	CIT(*)	CIT
GAS	G(*)	G
PETROLEUM	P(*)	P
SEWERAGE	S(*)	S
SEWERAGE RISING MAIN	SRM(*)	SRM
WATER MAIN	W(*)	W
WATER MAIN - RECYCLED	R(*)	R

ADDITIONAL EXISTING SERVICE DESCRIPTION:

DENOTES EXISTING SERVICE NOT IN USE

DENOTES LIVE SERVICE TO BE ABANDONED AS PART OF WORKS

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.
(A) - ABSOLUTE SPATIAL POSITION - X,Y,Z ATTRIBUTES AT LOCATION POINTS (E.G. CO-ORDINATED SURVEY DATA - MGA DERIVED).
(B) - VISUAL POSITION - LOCATED AND DEPTHED (SERVICE LOCATOR).
(C) - APPROXIMATE LOCATION FROM VERIFIED D.B.Y.D. RECORDS.
(D) - COMPILED POSITION - COMPILED FROM RECORDS AND ANECDOTAL EVIDENCE.

REFER TO LONGITUDINAL SECTION FOR QUALITY LEVEL.

NOTES:

1. UNLESS NOTED OTHERWISE, GULLIES ARE TO BE TYPE 'A' KERB IN LINE (KIL) WITH AN 'S' LINTEL (REFER BSD-8052). A 375 DIA PIPE CONNECTION IS TO BE USED.
2. GULLIES AND CONNECTIONS HAVE BEEN ALLOWED FOR IN THE SCHEDULE AS SHOWN ON THE PLANS, BUT THE ACTUAL POSITION OF GULLIES AND EXTENT OF CONNECTIONS WILL BE DETERMINED BY THE SUPERINTENDENT ON SITE.
3. FOR REINFORCED CONCRETE PIPE TRENCH WIDTHS (REFER BSD-8011). MINIMUM COVER TO PIPES IN ROADWAY TO BE 900 mm ON MINOR ROADS (REFER BSD-1021) AND 1200 mm ON MAJOR ROADS (REFER BSD-1022).
4. NOT WITHSTANDING THAT THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, PIPES, POLES, MANHOLES, ETC. THAT MAY BE INDICATED ON THE DRAWINGS, NO RESPONSIBILITY WILL BE ACCEPTED BY THE PRINCIPAL FOR THE ACCURACY OF THE REPRESENTATION OR THE OMISSION THEREOF. CONTACT 'QLD DIAL BEFORE YOU DIG' BY PHONE ON 1100 FOR THE LOCATION OF EXTERNAL AUTHORITIES' ASSETS.
5. WHERE POSITION OF SERVICES IS CRITICAL THE CONTRACTOR IS TO NOTIFY SERVICE AUTHORITY AND LOCATE ON SITE PRIOR TO CONSTRUCTION.
6. WORKS TO BE IN ACCORDANCE WITH AN APPROVED ENVIRONMENTAL MANAGEMENT PLAN.
7. UNLESS NOTED OTHERWISE, ALL ABANDONED PIPES TO BE FILLED WITH FLOWABLE CONCRETE FILL.
8. FOR STORMWATER MAINTENANCE HOLES BETWEEN 3.0 m DEEP AND 5.0 m DEEP REFER TO TMR STANDARD DRAWING 1307.
   FOR TYPE 'A' LIP IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1311.
   FOR TYPE 'A' KERB IN LINE GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1312.
   FOR TYPE 'A' ANTI-PONDING GULLIES BETWEEN 1.35 m DEEP AND 3.0 m DEEP REFER TO TMR STANDARD DRAWING 1459.

DRAINAGE SETOUT CO-ORDINATES

No.	EASTING	NORTHING	DESCRIPTION
19/1	50934.589	142474.273	PIPE CONNECTION
20/1	50922.688	142490.007	MANHOLE CHAMBER. REFER DWG 2301 FOR DETAILS
0/1	50933.333	142498.059	2/2100 x 900 PRECAST HEADWALL OR APPROVED EQUIVALENT
1/19	50929.849	142470.688	600 DIA PRECAST HEADWALL OR APPROVED EQUIVALENT
1/20	50897.450	142513.215	750 DIA PRECAST HEADWALL OR APPROVED EQUIVALENT
2/20	50903.935	142514.132	1200 DIA MANHOLE
3/20	50919.378	142493.698	1200 DIA MANHOLE

CONTROL POINT CO-ORDINATES

CP No.	EASTING	NORTHING	ELEVATION
CP1	50893.709	142519.541	16.547
CP2	50790.289	142419.126	16.972
CP3	51256.384	142754.874	15.738
CP4	51365.381	142613.031	16.658
CP7	51185.790	142638.379	16.384
CP7900	50371.290	141822.731	20.889
CP7901	50459.048	141697.917	19.572
CP7902	50419.431	141758.601	19.265
CP7903	50767.356	142011.133	18.315
CP7904	50812.520	141937.048	18.780
CP7905	50813.308	141949.079	18.842
CP7906	50693.847	142095.170	18.171
CP7907	50720.836	142079.847	17.785
CP7920	51042.336	142349.302	17.339
CP7921	51139.19	142217.870	17.704
CP7922	51052.841	142313.002	17.044

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	CONSTRUCTION ISSUE	NOV '22	A.G.D.	K.A.
2	MH20/1 AND OUTLET LOCATION AMENDED	MAR '23	A.G.D.	T.A.B.
3	MH 20/1 AMENDED	OCT '23	A.G.D	TAB

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VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
STORMWATER DRAINAGE LAYOUT PLAN 8

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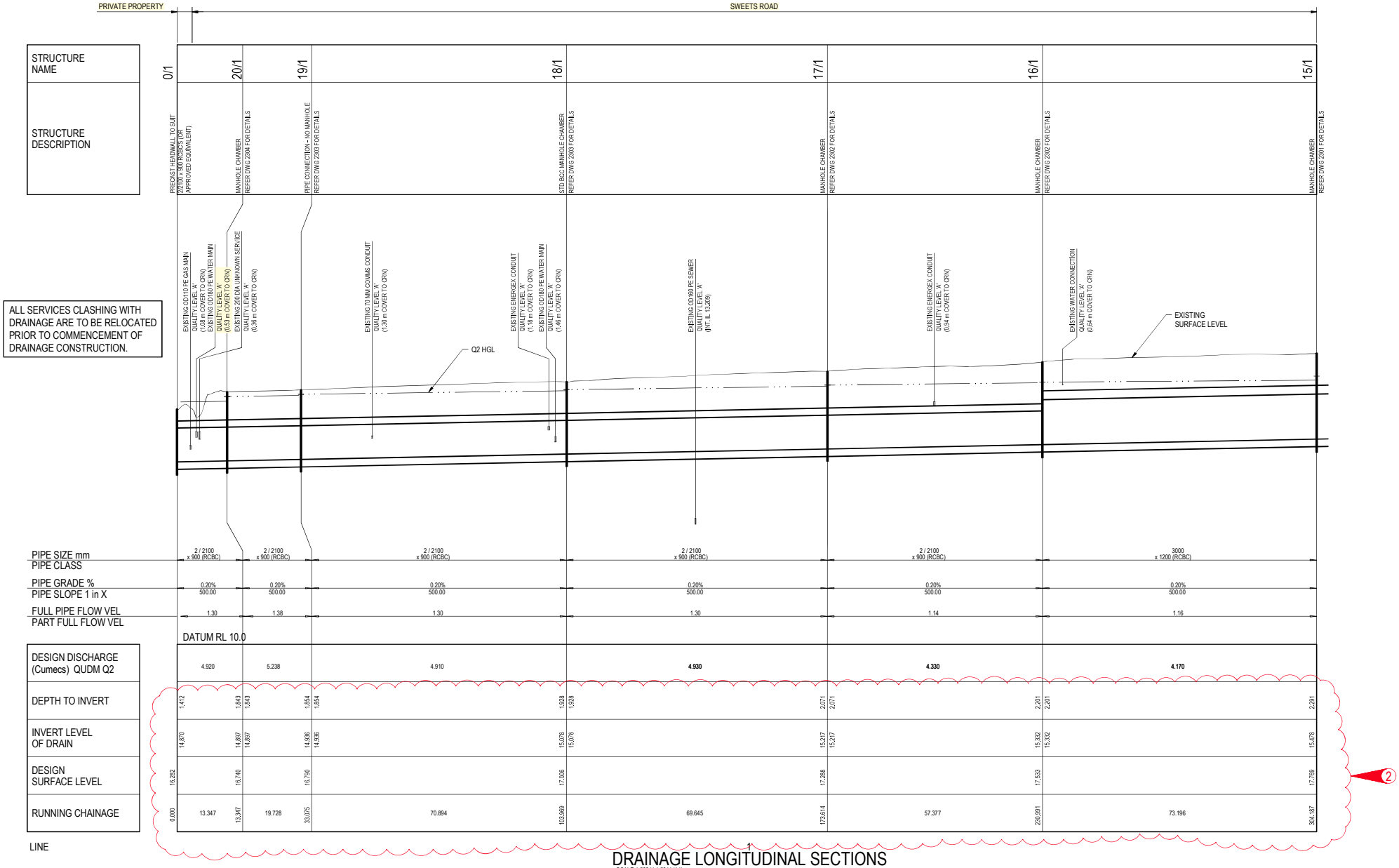
SCALE 1:250 ORIG. SIZE A1

PROJECT NUMBER / SHEET 220032 / 2109

ISSUE 3



DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500 H 1:50 V (A1)

HORIZONTAL 10 0 10 20 30 40 50 METRES SCALE 1 : 500 (BEFORE REDUCTION)

VERTICAL 1 0 1 2 3 4 5 METRES SCALE 1 : 50

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
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3	LONG SECTION AMENDED	MAR '23	A.G.D.	TAB

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VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
DRAINAGE LONGITUDINAL SECTIONS LINE 1

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DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

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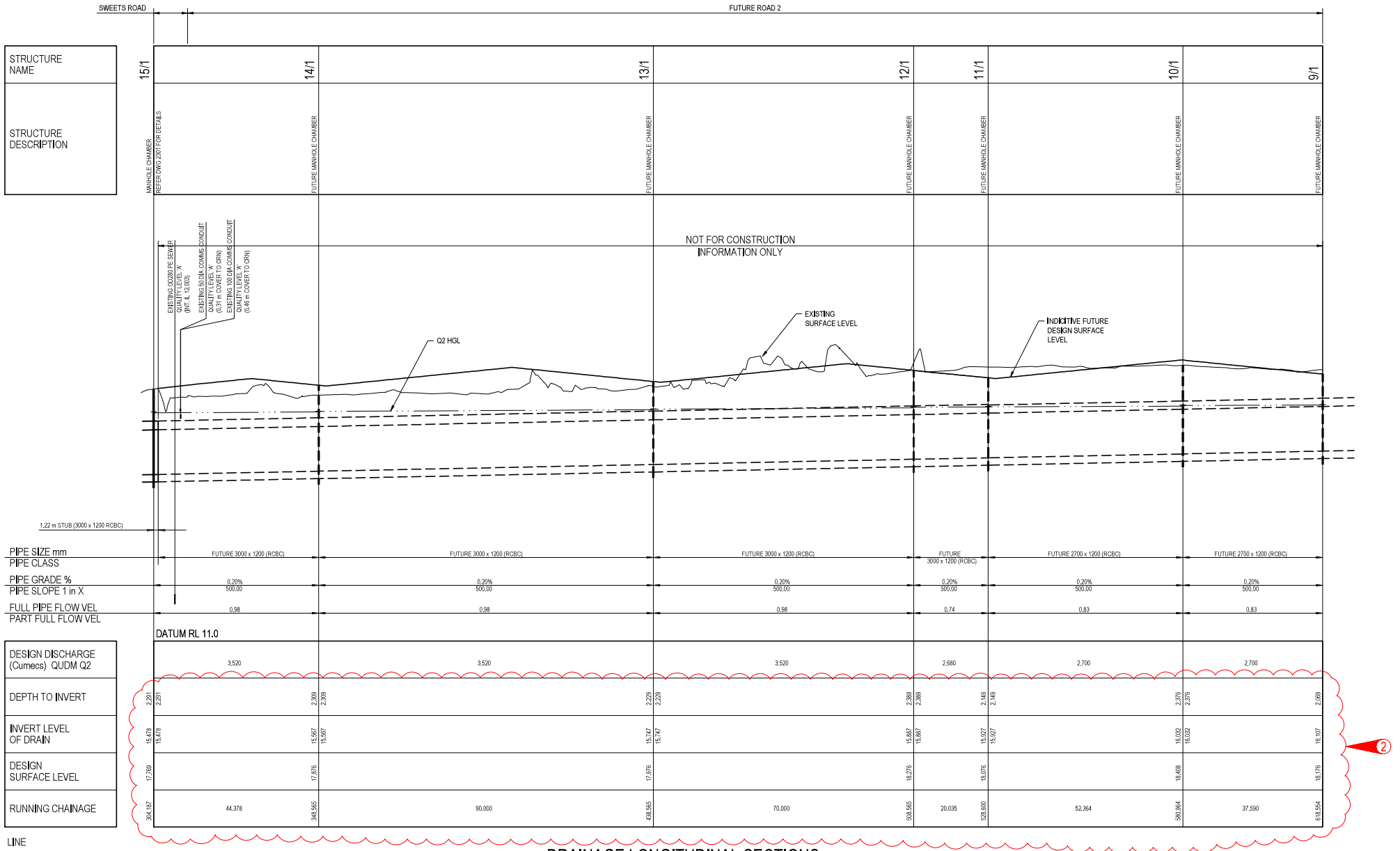
ISSUE 3



DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500 H 1:50 V (A1)

HORIZONTAL 10 0 10 20 30 40 50 METRES SCALE 1 : 500 (BEFORE REDUCTION)

VERTICAL 1 0 1 2 3 4 5 METRES SCALE 1 : 50

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
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SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
DRAINAGE LONGITUDINAL SECTIONS LINE 1 (CONT'D)

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DESIGN A.G.D.	DATE NOVEMBER 2022	DESIGN CHECK T.C.	DATE NOVEMBER 2022
DRAWN A.G.D.	DATE NOVEMBER 2022	DRAWING CHECK T.C.	DATE NOVEMBER 2022
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		SCALE AS SHOWN	ORIG. SIZE A1
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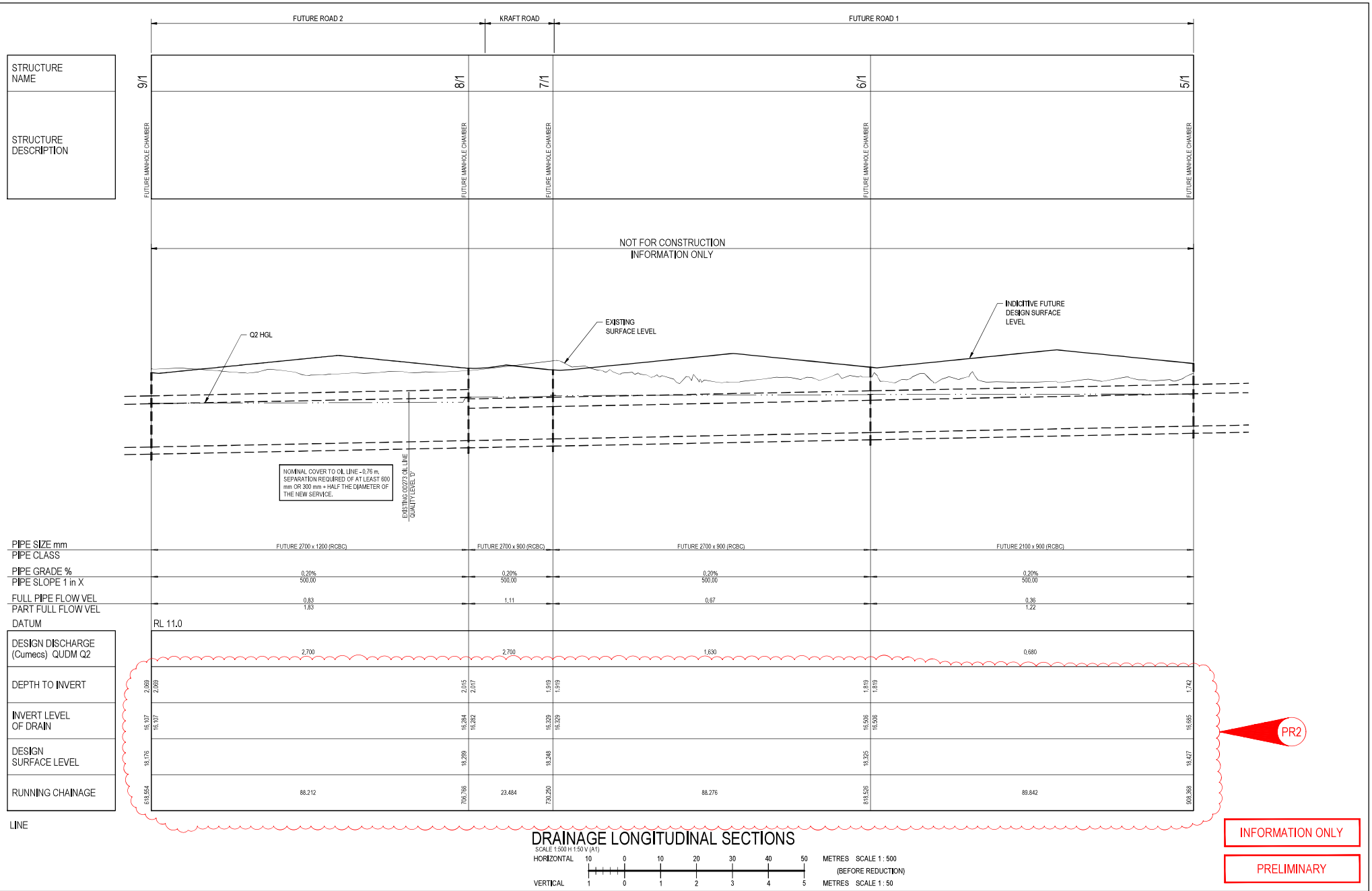

DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500 H 1:50 V (A1)

HORIZONTAL 10 0 10 20 30 40 50 METRES SCALE 1 : 500 (BEFORE REDUCTION)

VERTICAL 1 0 1 2 3 4 5 METRES SCALE 1 : 50

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
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PR2	LONG SECTION AMENDED	MAR '23	A.G.D.	

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VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
DRAINAGE LONGITUDINAL SECTIONS LINE 1 (CONT'D)

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

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ISSUE PR2

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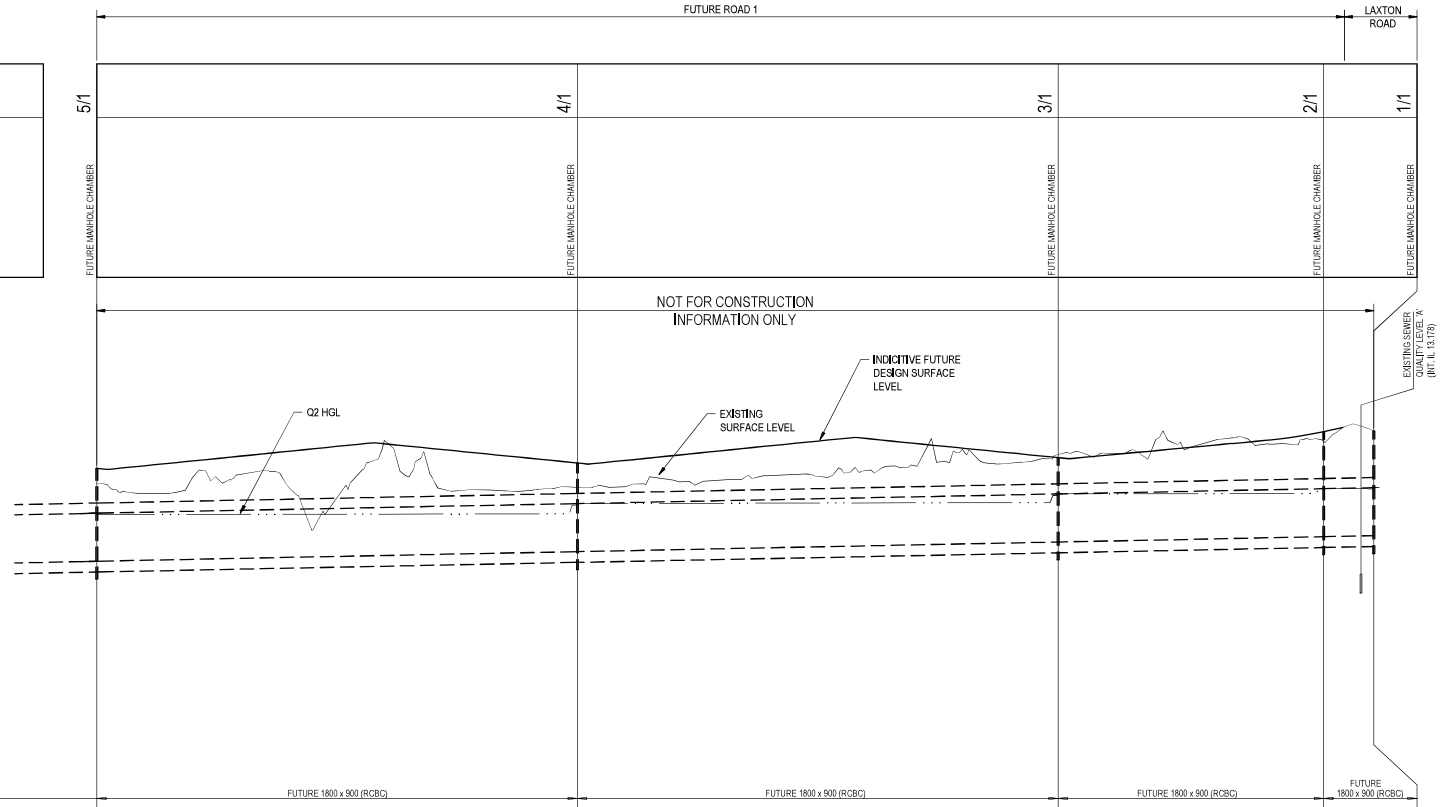

PIPE SIZE mm / PIPE CLASS	FUTURE 1800 x 900 (RCBC)		FUTURE 1800 x 900 (RCBC)		FUTURE 1800 x 900 (RCBC)		FUTURE 1800 x 900 (RCBC)		
PIPE GRADE % / PIPE SLOPE 1 in X	0.20% / 500.00		0.20% / 500.00		0.20% / 500.00		0.20% / 500.00		
FULL PIPE FLOW VEL / PART FULL FLOW VEL	0.42 / 1.27		0.42 / 1.27		0.41 / 1.26		0.19 / 0.97		
DATUM	RL 10.0								
DESIGN DISCHARGE (Cumecs) QUDM Q2	0.680		0.680		0.670		0.310		
DEPTH TO INVERT	1.742	1.741	1.661	1.661	1.581	1.581	1.969	1.969	1.961
INVERT LEVEL OF DRAIN	16.685	16.686	16.866	16.866	17.046	17.046	17.146	17.146	17.165
DESIGN SURFACE LEVEL	18.427		18.527		18.627		19.115		19.126
RUNNING CHAINAGE	908.368	89.979	998.347	90.001	1088.348	49.699	1138.047	9.414	1147.461

LINE

PR2

DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500 H 1:50 V (A1)

HORIZONTAL 10 0 10 20 30 40 50 METRES SCALE 1 : 500 (BEFORE REDUCTION)

VERTICAL 1 0 1 2 3 4 5 METRES SCALE 1 : 50

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
PR1	FOR INFORMATION ONLY	NOV '22	A.G.D.						
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SURVEY FILENAME 220032 DATUM A.H.D.

NOT FOR CONSTRUCTION

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
DRAINAGE LONGITUDINAL SECTIONS LINE 1 (CONT'D)

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DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
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A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

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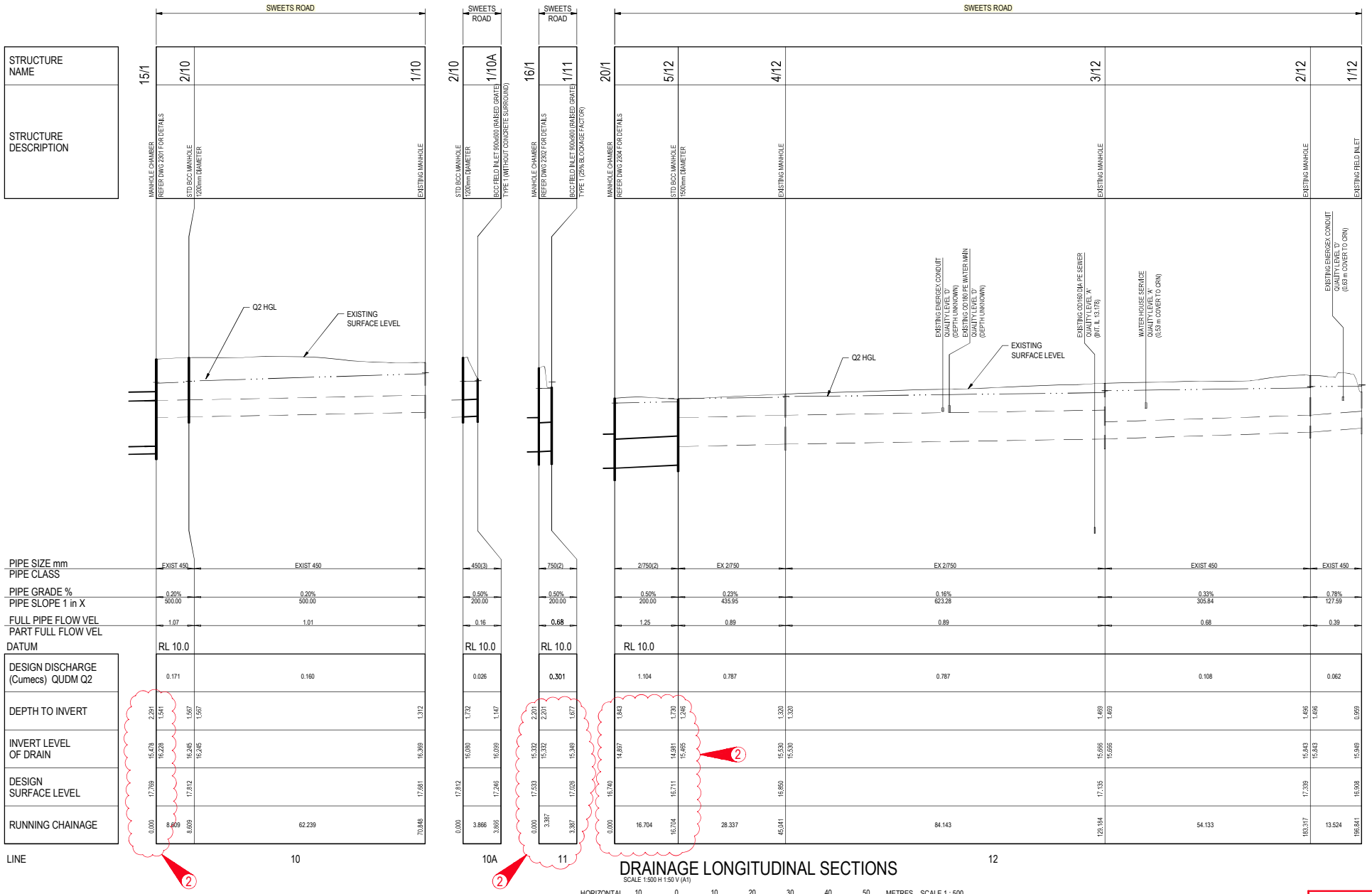
DWG. SIZE A1

PROJECT NUMBER / SHEET 220032 / 2204

ISSUE PR2



DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500 H 1:50 V (A1)

HORIZONTAL 10 0 10 20 30 40 50 METRES SCALE 1 : 500 (BEFORE REDUCTION)

VERTICAL 1 0 1 2 3 4 5 METRES SCALE 1 : 50

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SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
DRAINAGE LONGITUDINAL SECTIONS
LINE 10 TO LINE 12

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A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

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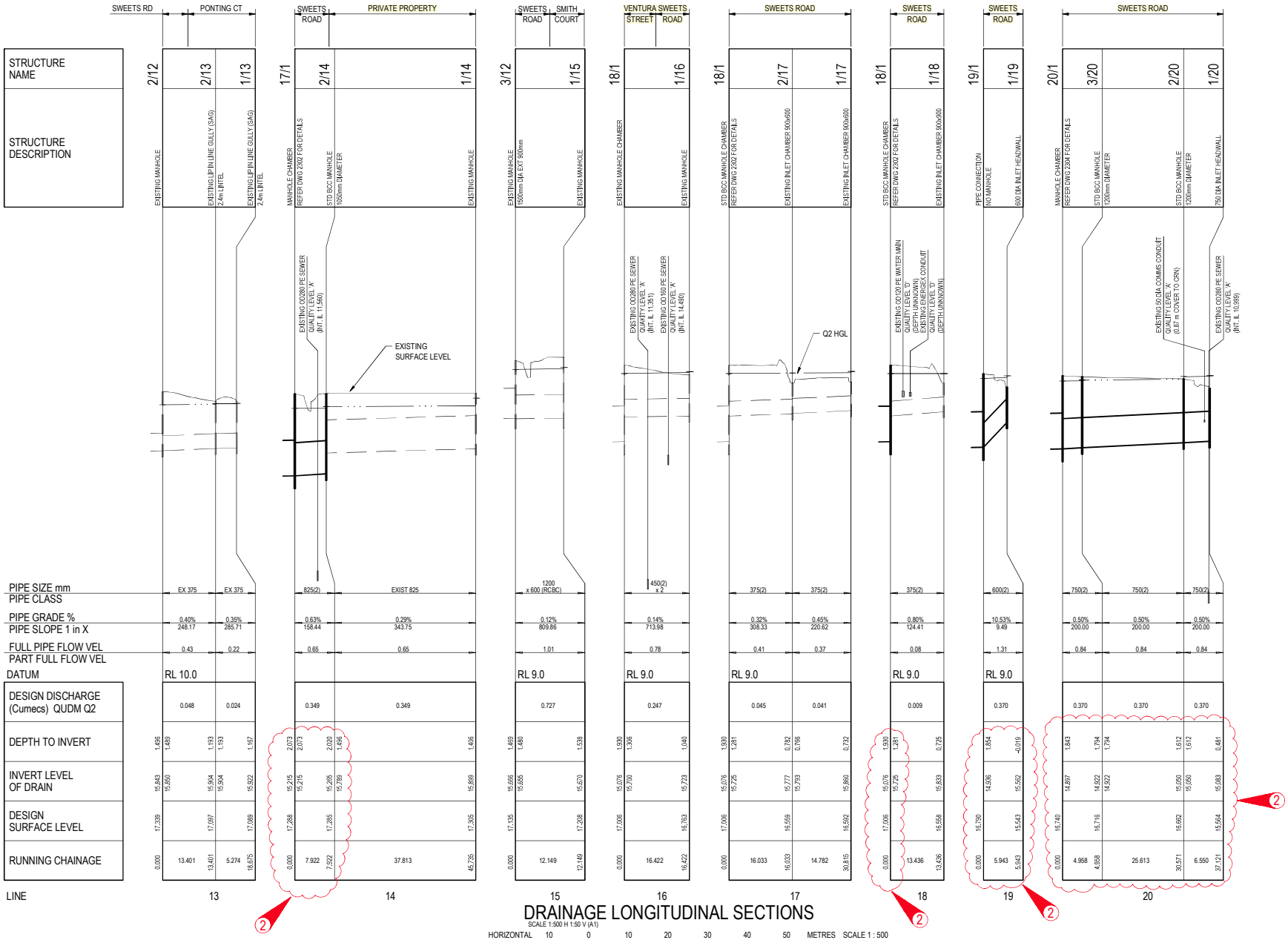
PROJECT NUMBER / SHEET 220032 / 2205
ISSUE 2



DRAINAGE LONGITUDINAL SECTIONS

SCALE 1:500 H 1:50 V (A1)

HORIZONTAL 10 0 10 20 30 40 50 METRES SCALE 1 : 500 (BEFORE REDUCTION)

VERTICAL 1 0 1 2 3 4 5 METRES SCALE 1 : 50

FOR CONSTRUCTION

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
1	CONSTRUCTION ISSUE	NOV '22	A.G.D.	K.A.
2	LONG SECTIONS AMENDED	MAR '23	A.G.D.	TAB

DATA INFORMATION
Brisbane City Council (unless stated below)
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Contours © 2002 AAMHatch
StreetPro digital spatial data © 2016 Pitney Bowes Inc.
2020 Nearmap © 2020 Nearmap Pty Limited
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SURVEY INFORMATION
HOR. DATUM - CD210505 CP1, CP2 GRK NTRK CP7900, CP7901, CP7903 AND CP7904
VERT DATUM - VIDE CD210505 CP1

SURVEY FILENAME 220032 DATUM A.H.D.

PROJECT
VIED ROAD, PALLARA
DRAINAGE DESIGN
LAXTON ROAD TO
132 SWEETS ROAD

TITLE
DRAINAGE LONGITUDINAL SECTIONS
LINE 13 TO LINE 20

SECURITY LABEL: **FOR OFFICIAL USE ONLY**

DESIGN	DATE	DESIGN CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022
DRAWN	DATE	DRAWING CHECK	DATE
A.G.D.	NOVEMBER 2022	T.C.	NOVEMBER 2022

AUTHORISED FOR ISSUE
Tawanda Buwu RPEQ 15012
2023.03.16 11:46:12 +10'00'

REFERENCE NO.

SCALE AS SHOWN ORIG. SIZE A1

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ISSUE 2