

22 December 2022

Our Ref: 41/080/1

The Minister for Planning and Public Places Department of Planning, Industry and Environment Locked Bag 5022 Parramatta NSW 2124

Notification of Certificate Issue

	Lot 13 DP 1271599, Lot 200 DP 1274184, Lot 62 DP 570271
Site Address:	Ivanhoe Estate comprising Ivanhoe Place, Wilcannia Way, Nyngan Way, Narromine Way and Cobar Way, part of 2-4 Lyonpark Road, 6-8 Lyonpark Road and portions of Shrimptons Creek, Macquarie Park
Subdivision Works Certificate:	17150

In accordance with the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021, please accept <u>notice</u> of our certificate issued under Part 6 Environmental Planning and Assessment Act, 1979.

The Subdivision Works Certificate and associated documentation has been uploaded to the NSW Planning Portal as required by legislation.

Please do not hesitate to contact our office should you require any further information relating to the certification work undertaken or the documentation accompanying this notification.

Yours faithfully

Colette Murray Office Coordinator



Penrith NSW 2750



22 December 2022

Our Ref: 41/080/1 Portal Ref: CFT-257466

Frasers Property Ivanhoe Pty Ltd Suite 11, Lumiere Commercial Level 12 101 Bathurst Street Sydney NSW 2000

Attention: Mr Peter Statham

Determination of Subdivision Works Certificate

The application for a Subdivision Works Certificate for retaining walls has been determined for approval on 22/12/2022.

Subdivision Works Certificate 17150 and related plans and specifications have been provided under separate cover.

If you require further information regarding this determination please contact the undersigned.

Yours faithfully

Enir Har Leld

Eric Hausfeld Registered Certifier Registration No. BDC2416









Subdivision Works Certificate

Certificate Date:	22/12/2022
Applicant:	Frasers Property Ivanhoe Pty Ltd
Development Consent:	SSD-8903-Mod-4 as approved on 5 August 2022
Subject Land:	Lot 13 DP 1271599, Lot 200 DP 1274184, Lot 62 DP 570271
Site Address:	Ivanhoe Estate comprising Ivanhoe Place, Wilcannia Way, Nyngan Way, Narromine Way and Cobar Way, part of 2-4 Lyonpark Road, 6-8 Lyonpark Road and portions of Shrimptons Creek, Macquarie Park
Description of Subdivision Work:	Retaining Walls
Plans & Specifications in relation to which the Subdivision Works Certificate is issued:	Refer to Schedule 1 for a list of the plans and specifications to which this certificate relates.
Other Documents:	Refer to Schedule 2 for a list of other documents supporting the application.
Notes:	Refer to Schedule 3 for notes applying to this certificate.
Certification Statement:	I certify that work completed in accordance with the plans and specifications listed in Schedule 1 will comply with the relevant requirements of s 6.12 of the Environmental Planning and Assessment Act 1979.

Enis Har Leld

Eric Hausfeld Registered Certifier Registration No. BDC2416



Plans & Specifications prepared by:	Cardno
Reference:	304100943-RW-DRG

Drawing	Revision	Date	Description
001	2	15/12/2022	Site Plan
002	2	15/12/2022	Retaining Wall Plan
003	2	15/12/2022	Retaining Wall Elevation
004	2	15/12/2022	Retaining Wall Details – Sheet 1
005	2	15/12/2022	Retaining Wall Details – Sheet 2

Plans & Specifications prepared by:	ADW Johnson
Reference:	300001(2)

Drawing	Revision	Date	Description		
461	6	20/12/2022	Existing Stormwater Pit Reconstruction		
564	6	20/12/2022	Retaining Wall Longitudinal Section RW101		
571	6	20/12/2022	Typical Retaining Wall Details & Notes		
575	6	20/12/2022	Retaining Wall RW101 Details		

Schedule 2

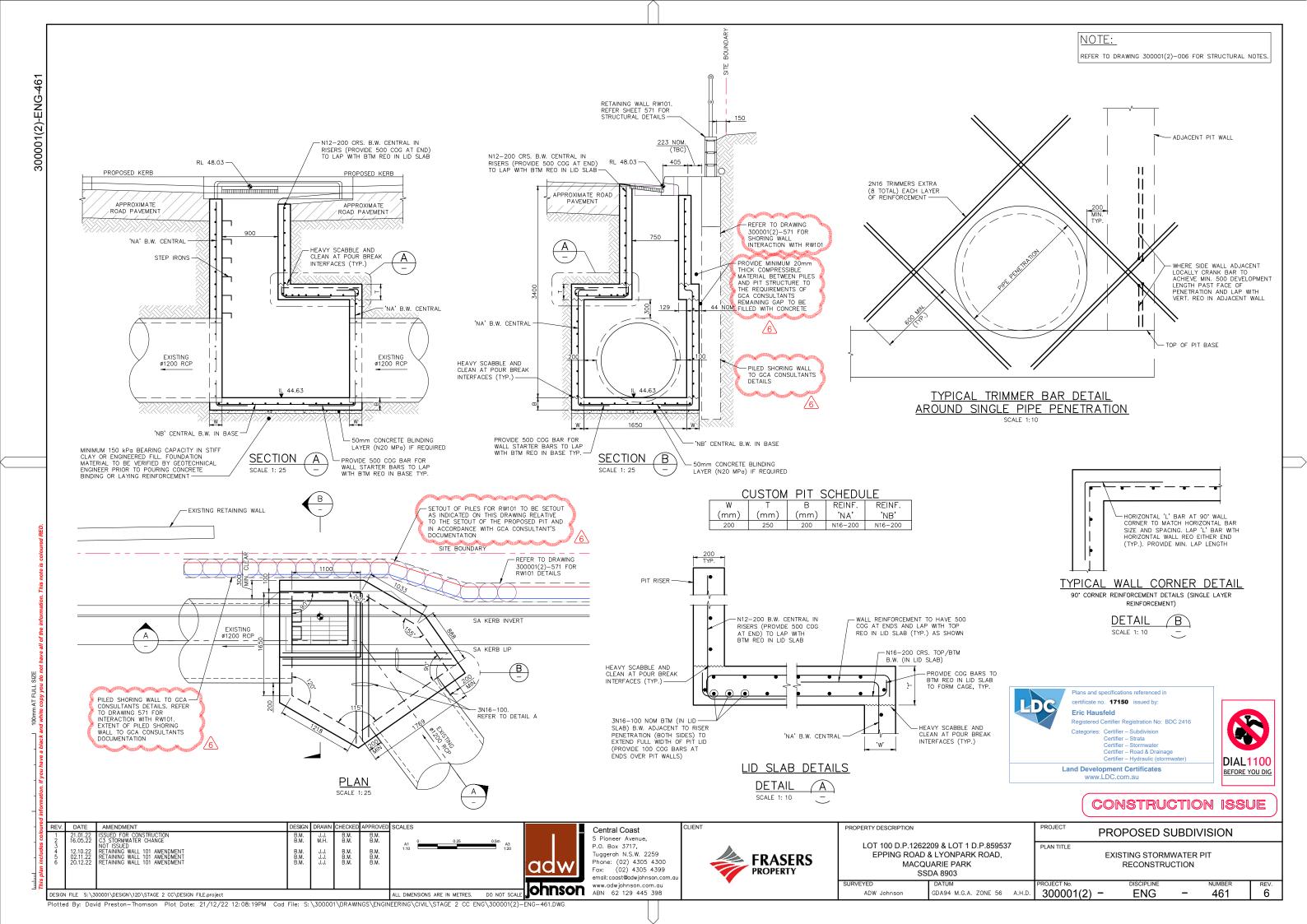
Other Documents

- 1. Subdivision Works Certificate Application Ref CFT-257466.
- 2. License Agreement dated 16/11/2022.
- 3. Long Service Levy Receipt No. 441550.
- 4. Design report (Retaining Wall Shrimptons Creek Bridge, Macquarie Park), dated 15/12/2022 as issued by Liam Hutton for Cardno now Stantec.
- 5. Design Compliance Certificate, dated 22/12/2022 as issued by Craig Bennett and Melissa Paige Cooper of ADW Johnson.
- 6. Fraser Property Australia correspondence dated 26/09/2022: Compliance with conditions B29d) and B30a).
- 7. Contiguous piling details, SKA & SKB, dated 29/11/2022 as issued by GCA Consultants
- 8. Christie Civil design responses, dated 21/12/2022 and 20/12/2022.
- 9. City of Ryde requirements for work to existing stormwater pit, dated 20/10/2022.

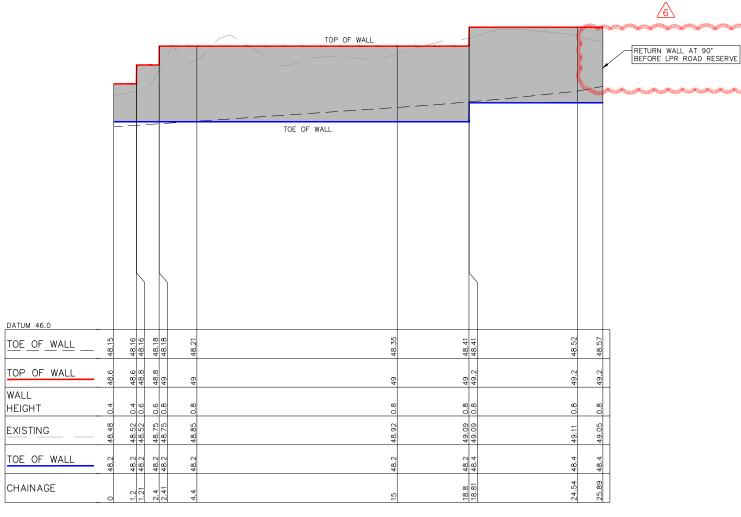
Schedule 3

Notes

- 1. This certificate relates to the replacement retaining wall on Lot 62 DP570271 under SSD-8903 MOD 4, replacement of existing pit and amendment to retaining wall 101 design under Subdivision Works Certificate 16746 as modified by Subdivision Works Certificate 16897.
- 2. This certificate follows and shall be read in conjunction with Subdivision Works Certificate's 16897 and 17083.
- 3. This certificate does not authorise commencement of works. The requirements of s 6.12 of the Act are to be met prior to commencement of works.



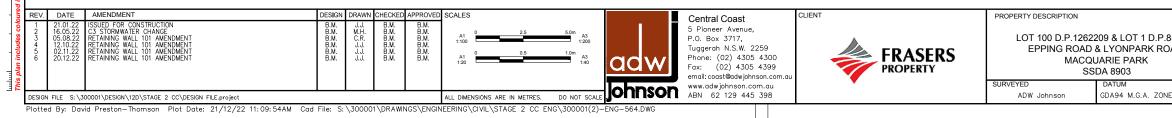
SIZE



LONGITUDINAL SECTION RW101

HORIZONTAL SCALE 1:100 VERTICAL SCALE 1:20

RW101 – SETOUT TABLE						
PT	CHAINAGE	EASTING	NORTHING	BEARING		
IP 1	0.000	325876.869	6260259.112	130*44'09.38"		
IP 2	3.293	325879.364	6260256.963			
IP 3	4.557	325880.022	6260255.884			
IP 4	24.537		6260242.834			
IP 5	25.885	325896.268	6260242.077	124'09'15.91"		



	CONSTRUCTION ISSUE	$\Big)$
	PROPOSED SUBDIVISION	
859537 DAD,	PLAN TITLE RETAINING WALL LONGITUDINAL SECTION RW101	
VE 56 A.H.D.	PROJECT No. DISCIPLINE NUMBER RE 300001(2) - ENG - 564 6	

Plans and specifications referenced in certificate no. **17150** issued by:

Categories: Certifier – Subdivision Certifier – Strata Certifier – Stormwater Certifier – Road & Drainage Certifier – Hydraulic (stormwa

Land Development Certificates www.LDC.com.au

Registered Certifier Registration No: BDC 2416

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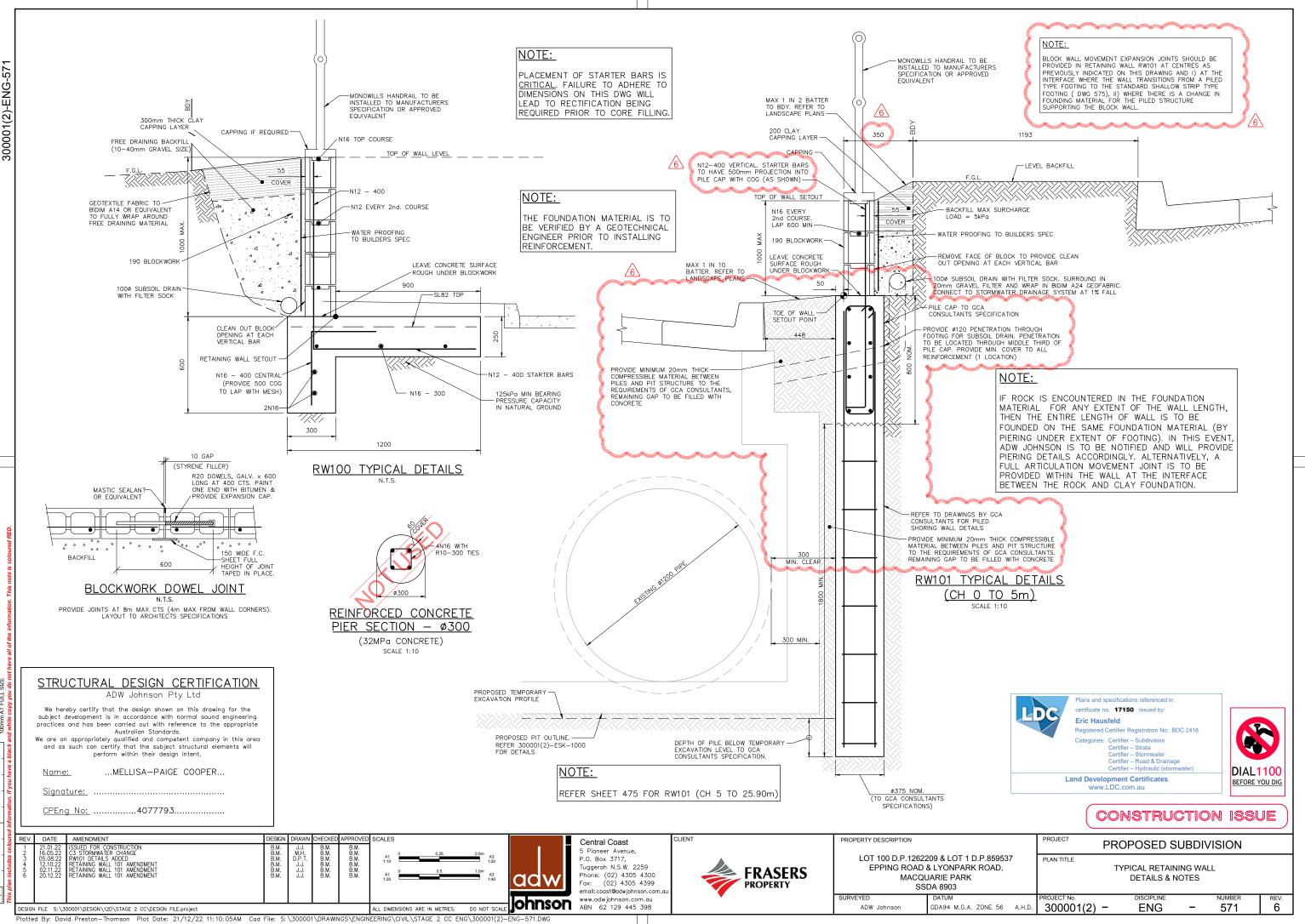
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Eric Hausfeld

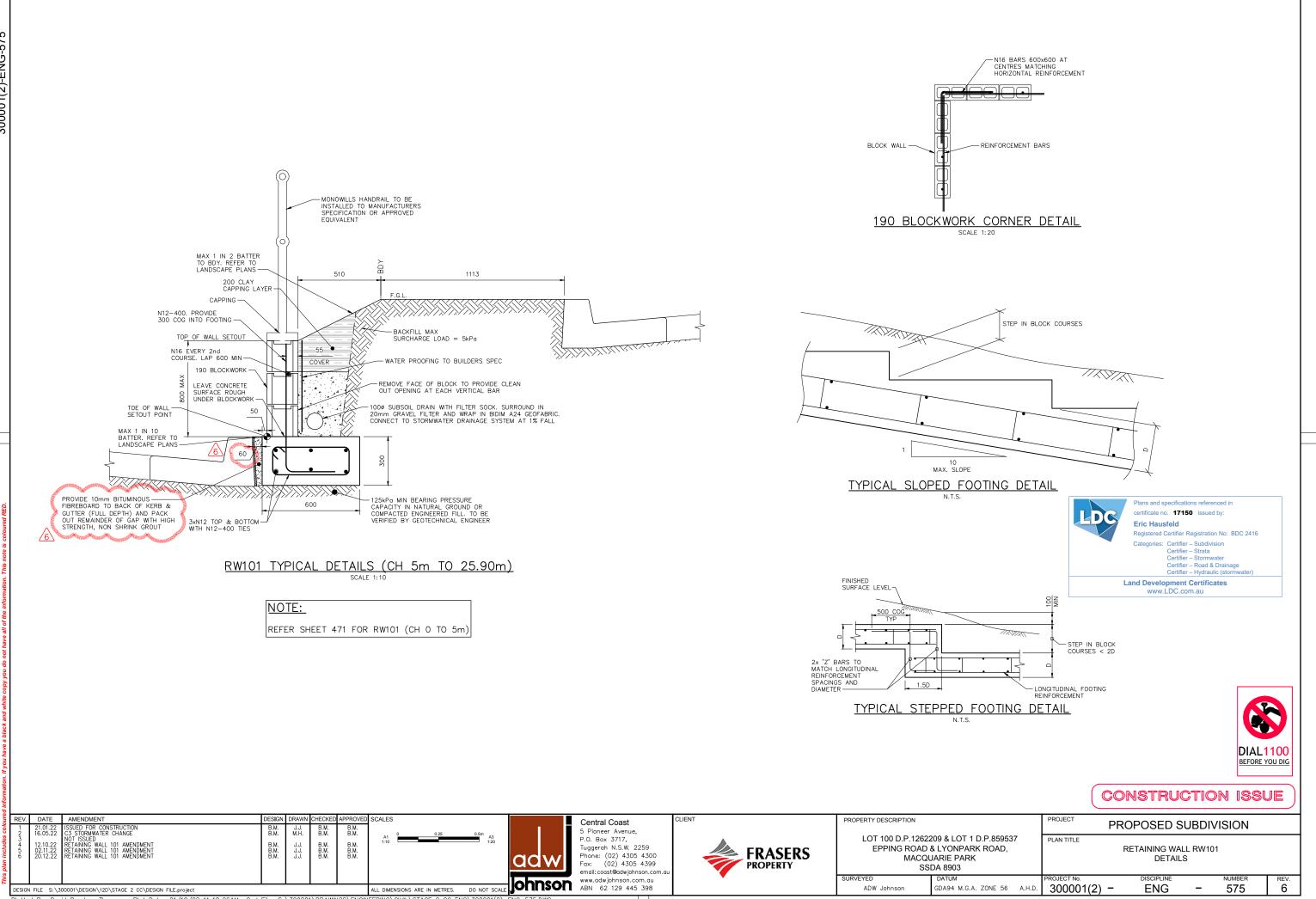
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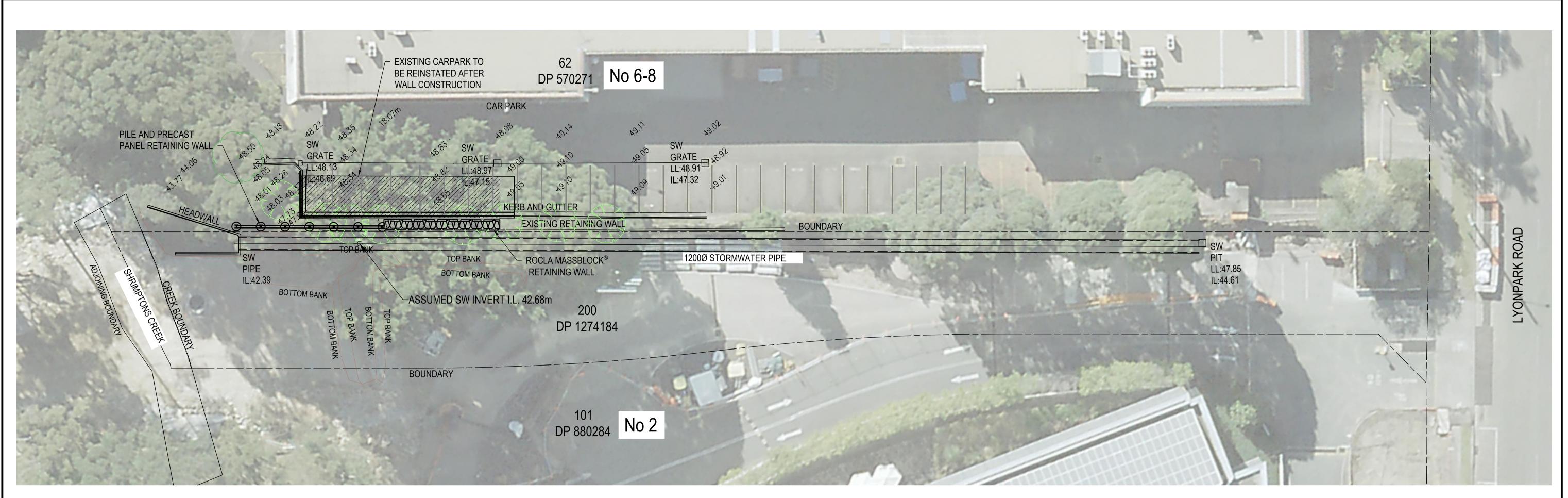




300001(2)-ENG-









LOADING NOTES

- 1. ALL LOADS TO AS1170.1 AND AS4678.
- 2. DEAD LOADS ARE AS FOLLOWS:
 - SELF WEIGHT OF WALL
 - BACKFILL = 18kN/m³
- 3. LIVE LOADS ARE AS FOLLOWS:
 - SURCHARGE = 5kPa
 - W_u = 1.98kPa TO FENCING
 - WALL HAS BEEN DESIGNED AS A FREE DRAINING STRUCTURE. NO POREWATER PRESSURE HAS BEEN ALLOWED FOR.
- 4. ONLY LIGHTWEIGHT / HAND-OPERATED MACHINERY IS PERMITTED FOR COMPACTION WITHIN 2m OF THE BACK OF THE WALL.

CONSTRUCTION METHODOLOGY

- 1. AUGER PILES, INCLUDING INSTALLATION OF TEMPORARY LINER TO PREVENT SPILL OUT SURROUNDING PIPE BACKFILL
- 2. INSTALLATION OF PREFABRICATED REINFORCEMENT INCLUDING UC'S INTO FOOTINGS (I.E. REO AND UC TO BE DROPPED INTO FOUNDATION).
- 3. POUR CONCRETE AND REMOVE LINER.
- 4. INSTALLATION OF PRECAST CONCRETE SLEEPERS
- 5. INSTALLATION OF GEOFABRIC, SUBSOIL DRAINS AND DRAINAGE GRAVEL (20mm DRAINAGE SCREENINGS).
- 6. INSTALLATION OF BACKFILL AND COMPACTION OF IMPERVIOUS CLAY LAYER (WITH LIGHT / HAND OPERATED MACHINERY ONLY).

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2							
5							
1							
5							0 5 10 15 20 25m
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200							
							SCALE 1.230 WAT
2.2	2	15/12/2022	FOR APPROVAL	AM	LB	LH	
	1	30/11/2022	FOR INFORMATION	AM	LB	LH	
Ś	Rev.	Date	Description	Des.	Verif.	Appd.	L.

SITE PLAN SCALE 1:200

REFER TO DRG No 0002 FOR DETAILED PLAN

PILING NOTES

- 1. CONCRETE EXPOSURE CLASSIFICATION: B1
- 2. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 40MPa.
- 3. REINFORCEMENT SHALL BE GRADE D500N UNLESS SPECIFIED OTHERWISE.
- 4. LIGATURES SHALL BE GRADE D500N.
- 5. NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 70mm UNLESS SPECIFIED OTHERWISE.
- 6. UNLESS SHOWN OTHERWISE ON THE DRAWINGS. THE MINIMUM LAPS LENGTHS SHALL BE 1400mm FOR N32 BARS.
- 7. MINIMUM LAP LENGTH OF HELIX SHALL BE 1.5 TURNS.
- 8. END OF HELIX AT PILE HEAD AND TOE SHALL BE ANCHORED BY A HOOK AROUND MAIN BAR 300mm MIN EXTENSION INTO CORE CONCRETE.

STEELWORK NOTES

- 1. ALL STEEL COMPONENTS SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS 4680 AFTER FABRICATION.
- 2. STEEL UC SECTION SHALL BE GRADE 300 TO AS/NZS 3679.2.

CONCRETE INFILL PANEL NOTES

- 1. CONCRETE EXPOSURE CLASSIFICATION: B1
- 2. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 40MPa.
- 3. CONCRETE EDGES SHALL BE CHAMFERED 15 x 15 AND **RE-ENTRANT ANGLES FILLETED UNLESS SPECIFIED OTHERWISE**
- 4. REINFORCEMENT SHALL BE GRADE D500N UNLESS SPECIFIED OTHERWISE.
- 5. NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 45mm UNLESS SPECIFIED OTHERWISE.
- 6. MINIMUM DEVELOPMENTS LENGTHS AND LAPS TO BE 400mm FOR N12 BARS AND 550mm FOR N16 BARS UNO.
- 7. UNLESS NOTED OTHERWISE, NO BACKFILL SHALL BE PLACED AGAINST STRUCTURES WITHIN 21 DAYS OF PLACING CONCRETE, UNLESS THE CONCRETE STRENGTH IS VERIFIED TO REACHED 28 DAY STRENGTH, IN ACCORDANCE WITH SPECIFICATION R44.
- 8. NF DENOTES NEAR FACE FF DENOTES FAR FACE EF DENOTES EACH FACE EE DENOTES EACH END
- 9. MASS OF PRECAST CONCRETE INFILL IS BASED ON A DENSITY OF 2500kg/m³ DURING STORAGE, TRANSPORT AND HANDLING: STORE PANELS FLAT WITH SUPPORTS AT 600 FROM THE ENDS AND AT MID LENGTH. PRECAST PANELS SHALL BE LIFTED IN COMPLIANCE WITH THE RELEVANT NSW REGULATORY REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS.
- 10. SURFACE FINISH OF FORMED CONCRETE SURFACES SHALL BE CLASS 2 IN ACCORDANCE WITH AS 3610.1:2018.

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e d. or the	Cardno [®]	Checked S. MATHIE	Date NOV. 2022	Project IVANHOE ESTATE
the all not		Designed A. RAE	Date NOV. 2022	
y third	Cardno (NSW/ACT) Pty Ltd ABN 95 001 145 035	Verified L. BAI	Date NOV. 2022	MACQUARIE PAR
on the	Level 9, The Forum, 203 Pacific Highway St. Leonards, NSW 2065 Tel: 02 9496 7700 Fax: 02 9439 5170 Web: www.cardno.com.au	Approved		SHE PLAN

PAVEMENT NOTES

OTHERWISE.

TRAFFIC BARRIER NOTES

1. TRAFFIC BARRIER TO BE W BEAM TYPE TO BE IN ACCORDANCE WITH THE TINSW STANDARDS. REFER TO TINSW STANDARD DRAWING SERIES R0710 FOR DETAILS.

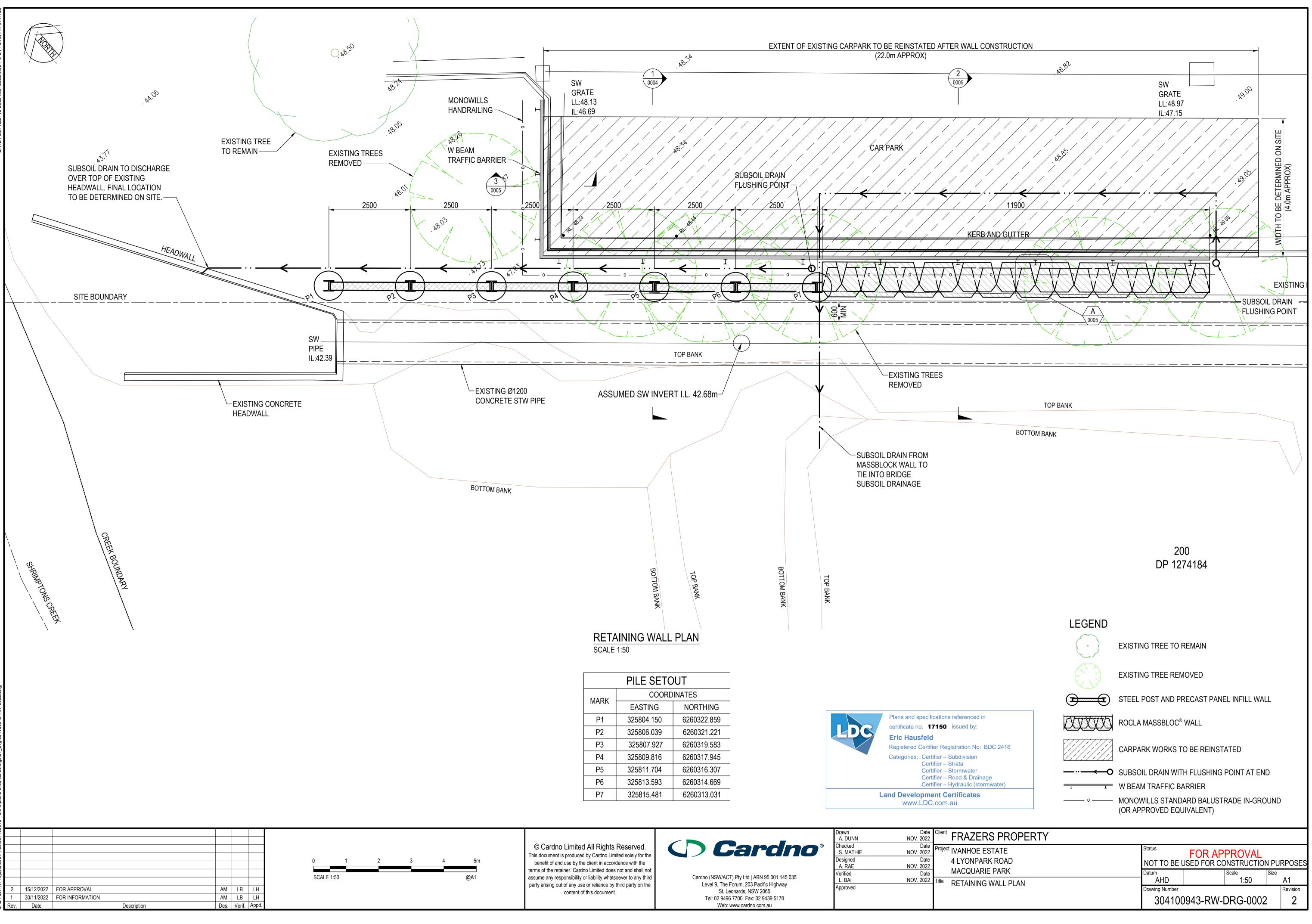
1. ALL DIMENSIONS SHOWN IN MILLIMETRES UNLESS NOTED

2. THE CONTRACTOR IS TO ENSURE A SMOOTH TRANSITION IS

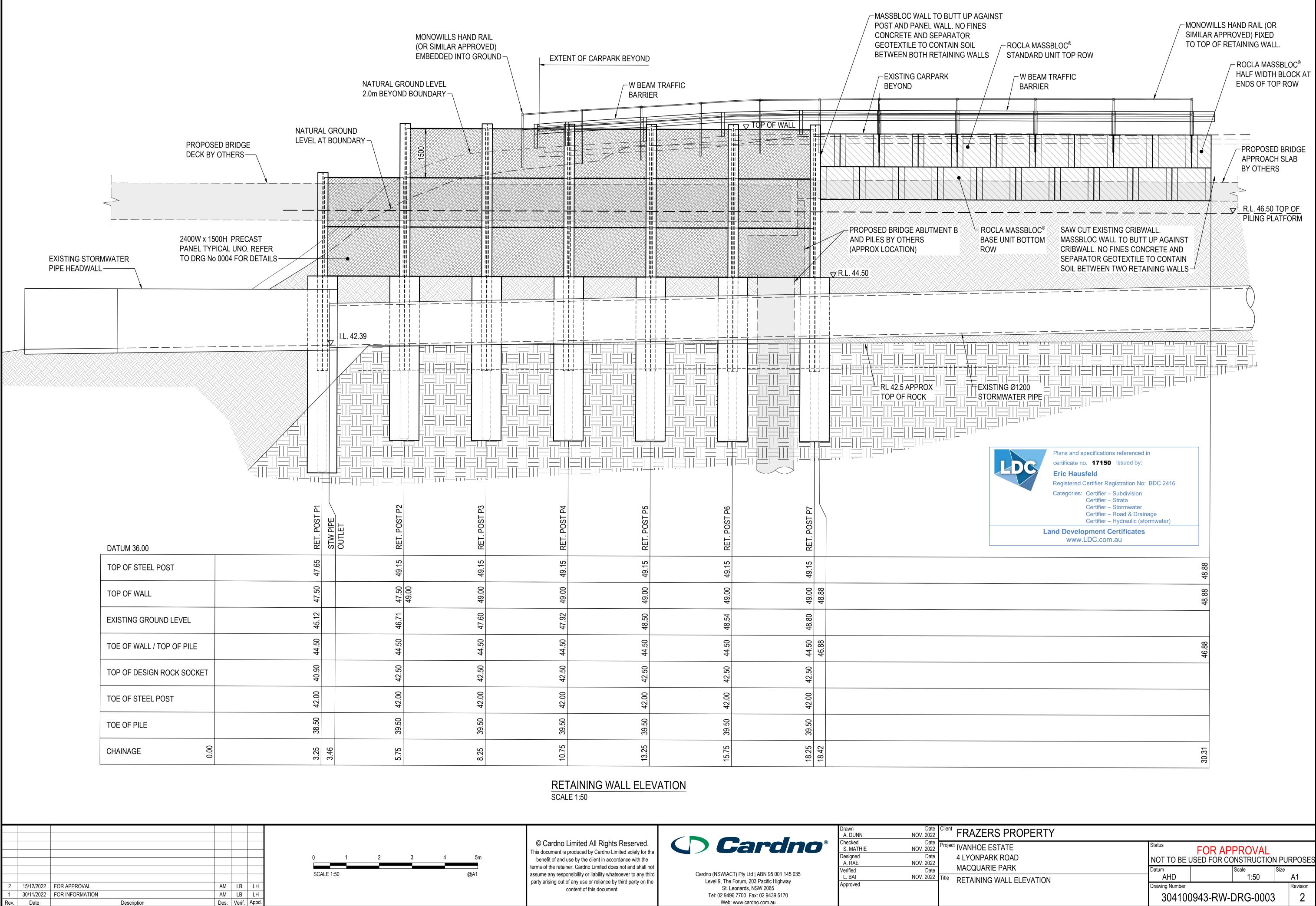
ACHIEVED BETWEEN EXISTING AND PROPOSED PAVEMENTS.



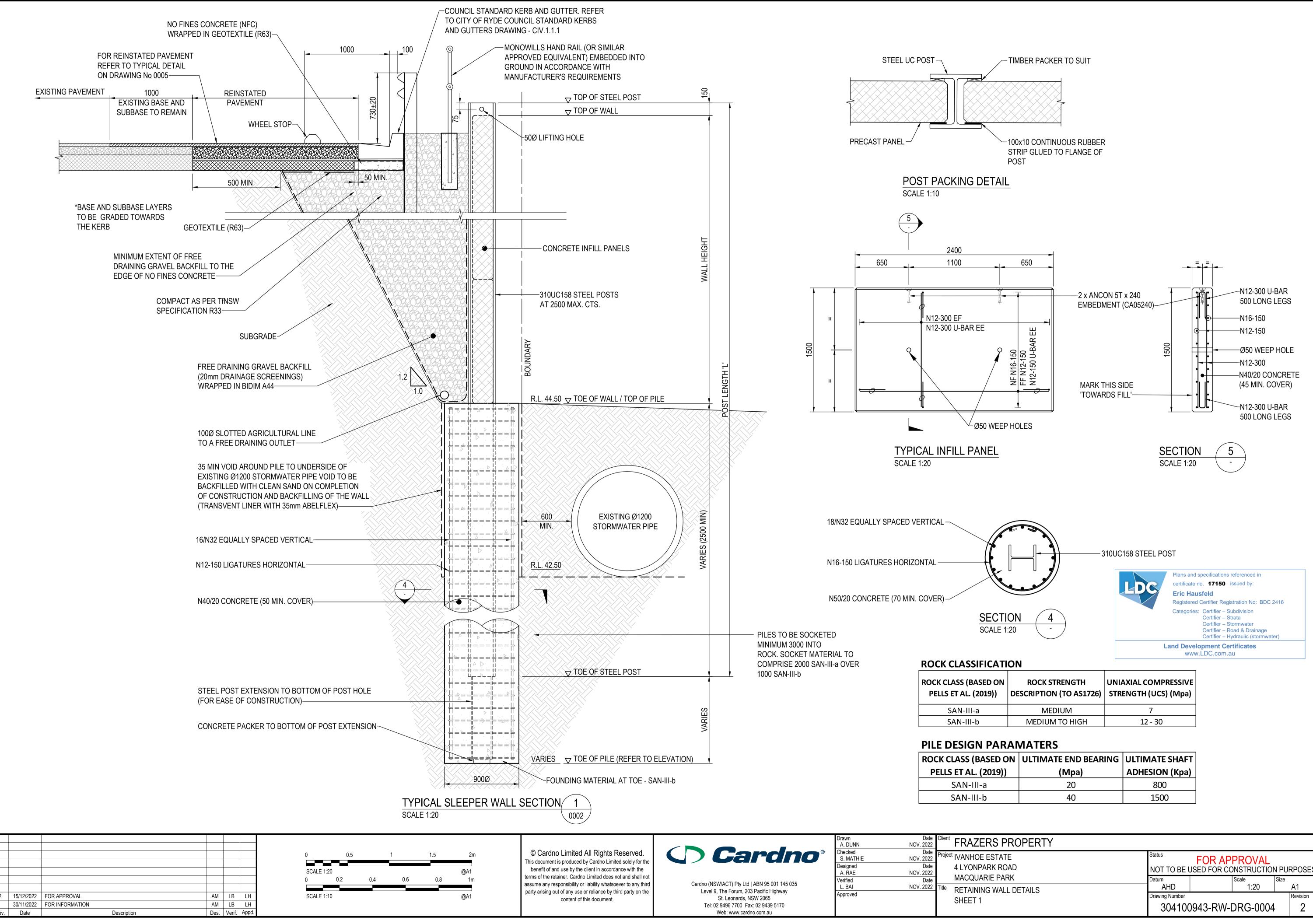
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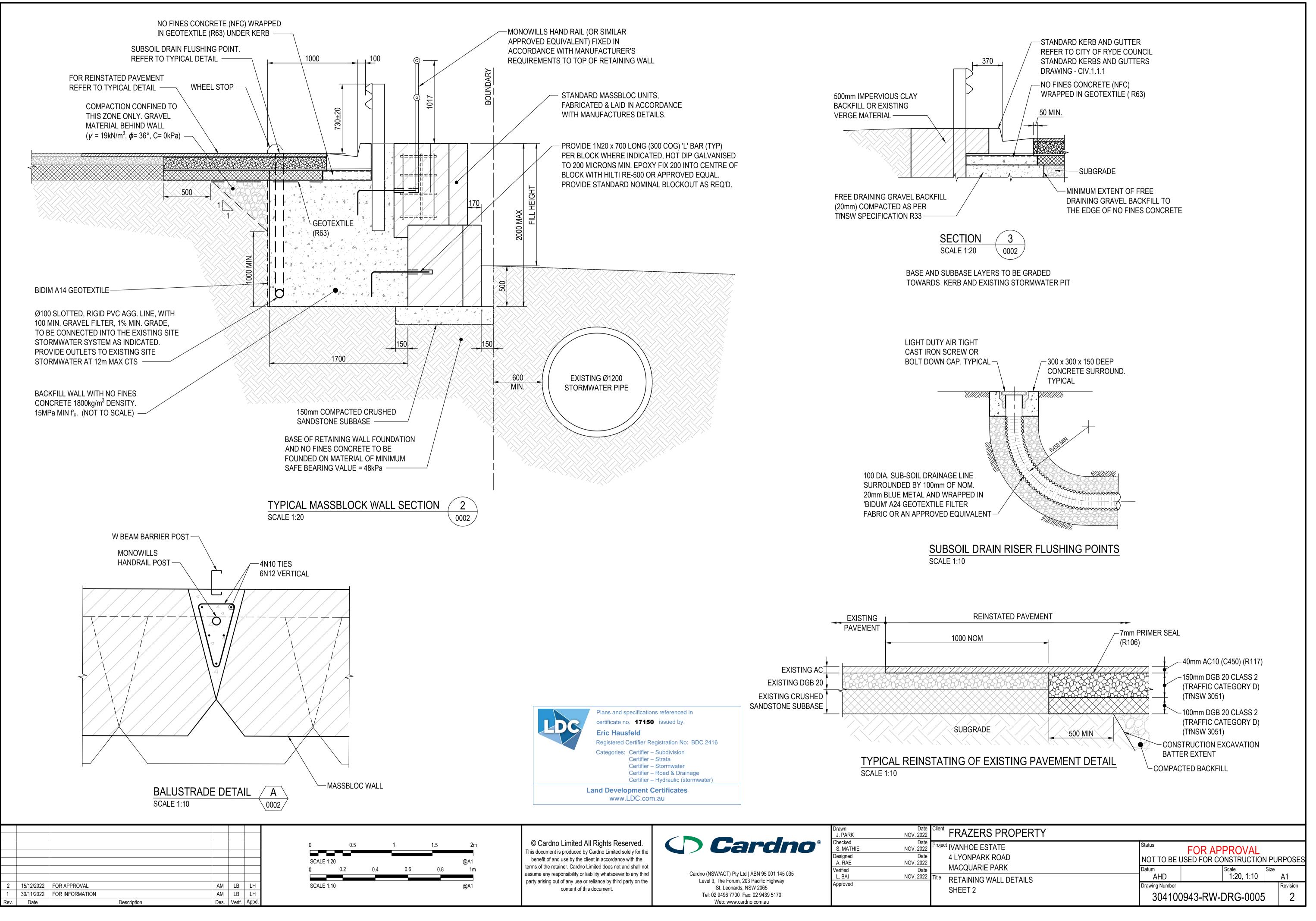


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Drawn		Client FRAZERS PF
A. DUNN	NOV. 2022	
Checked	Date	Project IVANHOE ESTATE
S. MATHIE	NOV. 2022	
Designed	Date	4 LYONPARK ROA
A. RAE	NOV. 2022	
Verified	Date	MACQUARIE PAR
L. BAI	NOV. 2022	Title RETAINING WALL
Approved		





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