

RIVER VALLEY - STAGE 7D1

PERENNIAL DRIVE, SUNSHINE NORTH, VIC

CIVIL SITEWORKS



LOCATION PLAN (N.T.S)

DRAWING SCHEDULE	
Sheet Number	Sheet Title
15006-CJA-7D1-00-DR-C-0000	TITLE SHEET AND DRAWING SCHEDULE
15006-CJA-7D1-00-DR-C-0001	NOTES PAGE
15006-CJA-7D1-00-DR-C-0100	EXISTING CONDITIONS
15006-CJA-7D1-00-DR-C-1000	OVERALL LAYOUT PLAN
15006-CJA-7D1-00-DR-C-1100	DETAILED LAYOUT PLAN-SHEET 1 OF 2
15006-CJA-7D1-00-DR-C-1101	DETAILED LAYOUT PLAN-SHEET 2 OF 2
15006-CJA-7D1-00-DR-C-1110	DETAILED DRAINAGE PLAN (SHEET 1 OF 2)
15006-CJA-7D1-00-DR-C-1111	DETAILED DRAINAGE PLAN (SHEET 2 OF 2)
15006-CJA-7D1-00-DR-C-2000	TYPICAL SECTION-WHOLE SITE
15006-CJA-7D1-00-DR-C-4000	LONGSECTION - ROCKWALL A - SHEET 1 OF 2
15006-CJA-7D1-00-DR-C-4001	LONG SECTION AND SETOUT-ROCKWALL A - SHEET 2 OF 2
15006-CJA-7D1-00-DR-C-4002	LONGSECTION - LANDSCAPE RETAINING WALL - SHEET 1 OF 2
15006-CJA-7D1-00-DR-C-4003	LONGSECTION AND SETOUT - LANDSCAPE RETAINING WALL - SHEET 2 OF 2
15006-CJA-7D1-00-DR-C-4004	LONGSECTION AND SETOUT - CONCRETE SLEEPER WALL
15006-CJA-7D1-00-DR-C-8018	CONSTRUCTION DETAILS-RETAINING WALL-SHEET 1 OF 5
15006-CJA-7D1-00-DR-C-8019	CONSTRUCTION DETAILS-RETAINING WALL-SHEET 2 OF 5
15006-CJA-7D1-00-DR-C-8020	CONSTRUCTION DETAILS-RETAINING WALL-SHEET 3 OF 5
15006-CJA-7D1-00-DR-C-8021	CONSTRUCTION DETAILS-RETAINING WALL-SHEET 4 OF 5
15006-CJA-7D1-00-DR-C-8022	CONSTRUCTION DETAILS-RETAINING WALL-SHEET 5 OF 5
15006-CJA-7D1-00-DR-C-9900	FILL LAYOUT PLAN-SHEET 1 OF 2
15006-CJA-7D1-00-DR-C-9901	FILL LAYOUT PLAN-SHEET 2 OF 2
15006-CJA-7D1-00-DR-C-9200	SUB-DIVISION PLANS - SHEET 1 OF 4
15006-CJA-7D1-00-DR-C-9201	SUB-DIVISION PLANS - SHEET 2 OF 4
15006-CJA-7D1-00-DR-C-9202	SUB-DIVISION PLANS - SHEET 3 OF 4
15006-CJA-7D1-00-DR-C-9203	SUB-DIVISION PLANS - SHEET 4 OF 4
15006-CJA-7D-XX-DR-EW-1000	BULK EARTHWORKS - CUT AND FILL PLAN

Rev	Date	Reason	Drawn	Checked
1	05.07.23	ISSUED FOR CONSTRUCTION	TS	VR
0	09.12.22	ISSUED FOR CONSTRUCTION		

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CIVIL SITEWORKS
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Project: RIVER VALLEY - STAGE 7D1
 Client: YOURLAND
 Revision of this: ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Issue	Number	Revision
15006	CJA	7D1	00	DWG	C	0000	1

Drawing Title: TITLE SHEET AND DRAWING SCHEDULE

Drawn By	Checked By	Drawn Scale	Date of First Issue
TS	VR	N/A @ A1	09.12.22

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GENERAL BRIMBANK CITY COUNCIL NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATIONS APPROVED BY THE BRIMBANK CITY COUNCIL, BRIMBANK CITY COUNCIL STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SURVEILLANCE COORDINATOR OR HIS REPRESENTATIVE.
2. NO TREES AND SHRUBS ARE TO BE REMOVED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY.
3. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED PRIOR TO THE COMMENCEMENT OF WORKS.
4. ALL VEHICLE CROSSINGS, DRAINAGE PITS, PRAM RAMP, BOLLARDS ETC SHALL BE CONSTRUCTED AS PER COUNCIL'S STANDARD DRAWINGS UNLESS OTHERWISE SPECIFIED.
5. COUNCIL'S SURVEILLANCE COORDINATOR MUST BE NOTIFIED IN WRITING, NO LESS THAN SEVEN (7) DAYS PRIOR TO THE COMMENCEMENTS OF WORKS.
6. SUBMIT APPLICATION FOR CONSTRUCTION ACCESS TO SITE FOR APPROVAL BY COUNCIL'S SURVEILLANCE COORDINATOR BEFORE COMMENCEMENT OF ANY WORKS.
7. CONTRACTORS ARE RESPONSIBLE WITH RESPECT TO SAFETY OF WORK ON SITE AND APPROPRIATE LEGISLATION.
8. FOOTPATHS ARE TO BE OFFSET 25mm FROM THE PROPERTY LINE AND CONSTRUCTED AS PER BRIMBANK STANDARD DRAWING S350.
9. VICROADS' ROADWORK SIGNING CODE OF PRACTICE WHICH COMPLIES WITH AUSTRALIAN STANDARD 1742.3-2002 IS TO BE ADHERED TO DURING CONSTRUCTION WORKS (OR ANY SUBSEQUENT LATER VERSION).
10. WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED 20MM CLASS 3 CRUSHED ROCK UP TO A LEVEL WHERE THE 45DEG. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE.
11. ALL DRAINAGE PIPES 225mm AND ABOVE SHALL BE SPIGOT & SOCKET TYPE AND RUBBER RING JOINTED CLASS 4 MINIMUM REINFORCED CONCRETE PIPE.
12. PROVIDE CCTV FOR COMPLETED DRAINS AS PER CONDUIT INSPECTION REPORTING CODE WSA LATEST VERSION PRIOR TO PRACTICAL COMPLETION OR STATEMENT OF COMPLIANCE, WHICHEVER IS EARLIER.
13. SERVICE CONDUITS ARE TO BE PROVIDED UNDER FOOTPATHS EXTENDING INTO ALLOTMENTS - LOCATION TO BE MARKED ON THE FOOTPATH AND KERB.
14. AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AT INTERFACE OF EXISTING AND NEW PAVEMENT AND SHOULD HAVE SUITABLE OUTLET. REFER TO COUNCIL'S STANDARD DRAWING S110 FOR BACKFILL MATERIAL ETC. SOME WORKS MAY REQUIRE SPECIAL CONSIDERATION EG. VICROADS STANDARDS.
15. CONDUITS ARE TO BE CLEARLY MARKED ON THE KERB AND FOOTPATH FOR EASY IDENTIFICATION.
16. ALL SERVICING TRENCHES UNDER ROAD CARRIAGEWAYS, FOOTPATHS, VEHICLE CROSSINGS AND OTHER STRUCTURES ARE TO BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK IN ACCORDANCE WITH SECTION 706 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
17. ALL SERVICES MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THE KERB AND CHANNEL.
18. TMP TO BE SUBMITTED TO COUNCIL'S SURVEILLANCE AND/OR TRAFFIC & TRANSPORT SECTION 7 DAYS PRIOR TO COMMENCEMENT OF WORKS FOR ACCEPTANCE.
19. STREET LIGHTING SHALL BE LED 18W FOR STANDARD FITTING AND LED 16W TOORAK/TOORAK ALPHA FOR DECORATIVE NON-STANDARD FITTING.
20. THE DRAWINGS, "MUST NOT BE SCALED/MEASURED" FROM HARD OR DIGITAL COPIES.
21. MINIMUM EARTHWORKS FILLING REQUIREMENTS FOR ALL ROAD WORKS:
 - a. ROAD FILLING WORKS SHALL BE IN ACCORDANCE WITH SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
 - b. TYPE A FILL IS REQUIRED FOR THE LAST 200mm LAYER UNDER ROAD PAVEMENTS, FOOTPATHS, VEHICLE CROSSINGS, NATURE STRIPS AND OTHER ROAD STRUCTURES.
 - c. TYPE A MATERIAL IS SPECIFIED IN SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENTS (EQUIVALENT TO THE LATEST VERSION OF VICROADS' CONTRACT SPECIFICATIONS) AND SHALL HAVE MAXIMUM SWELL OF ≤1.5%, MAXIMUM PERMEABILITY OF 5 X 10⁻⁷ CM/SEC, MAXIMUM BOULDER SIZE IS 75 MM ROCK WITH NO OTHER GRADING REQUIREMENTS, AND WITH 99% OF STANDARD COMPACTIVE EFFORT (SCALE A OF TABLE 204.131).
 - d. NATURE STRIP WIDTHS SHALL BE FINISHED OFF WITH 100mm THICK TOP SOIL MATERIAL RECOVERED FROM STRIPPING PRIOR TO THE CONSTRUCTION OF EARTHWORKS OR OTHER IMPORTED TOPSOIL TO COMPLY WITH COUNCIL'S LANDSCAPE REQUIREMENTS.
22. FILL MATERIAL TO BE IMPORTED TO SITE WILL BE SUBJECT TO THE FOLLOWING CONTROLS:
 - a. BORROW MATERIAL FOR FILLING WORKS IS TO BE SIGNED OFF BY A SUITABLY QUALIFIED INDEPENDENT ENVIRONMENTAL SCIENTIST TO BE CLEAN FILL TO MEET EPA DEFINITION. THE SCIENTIST MUST BE RECOGNISED BY THE EPA TO UNDERTAKE SUCH A JOB.
 - THE INDEPENDENT ENVIRONMENTAL SCIENTIST IS TO CERTIFY THAT THE SOURCE OR SOURCES OF BORROW MATERIAL TO MEET THE EPA DEFINITION OF CLEAN FILL SUITABLE FOR ROAD CONSTRUCTION. THE SCIENTIST IS TO OVERSEE ALL TESTING, FREQUENCY OF TESTING, ETC. TO MEET EPA REQUIREMENTS FOR CLEAN FILL.
 - THE SCIENTIST IS TO ENSURE THAT ONLY THE CERTIFIED CLEAN FILL MATERIAL IS USED. TRANSPORTATION DOCKETS ARE TO BE ISSUED FOR EACH TRUCK LOAD. DATE AND TIME OF LOADING AND ARRIVAL ON SITE ARE TO BE RECORDED.
 - AT THE END OF BORROW FILLING, A REPORT IS TO BE SUBMITTED TO COUNCIL BY THE INDEPENDENT SCIENTIST DETAILING THE TESTINGS CARRIED OUT LEADING TO THE APPROVAL OF THE SOURCE OR SOURCES.
 - THE REPORT IS ALSO TO INCLUDE COPIES OF ALL THE TRANSPORTATION DOCKETS AND SUMMARY OF THE REQUIRED BORROW VOLUME.
 - IN THE REPORT, THE SCIENTIST IS TO SIGN OFF THE COMPLETED BORROW FILL WORKS FOR EPA REQUIREMENTS FOR CLEAN FILL WORKS.
 - b. BORROW MATERIAL FILLING WORKS IS TO BE SIGNED OFF BY A SUITABLY QUALIFIED INDEPENDENT (NATA REGISTERED COMPANY) GEOTECHNICAL ENGINEER TO BE TYPE B FILL TO MEET BCC SPECIFICATIONS FOR TYPE B FILL MATERIAL.
 - THE GEOTECHNICAL ENGINEER IS TO APPROVE THE SOURCE OR SOURCES OF THE BORROW MATERIAL THAT MEETS TYPE B FILL (INCLUDING MINIMUM 2% CBR).
 - THE GEOTECHNICAL ENGINEER IS TO CARRY OUT ALL THE TESTING AT THE SITE OR SOURCE(S) AS REQUIRED IN SECTION 204.
 - THE ENGINEER IS TO ENSURE THAT ONLY THE CERTIFIED TYPE B FILL MATERIAL IS USED. TRANSPORTATION DOCKETS ARE TO BE ISSUED FOR EACH TRUCK LOAD. DATE AND TIME OF LOADING AND ARRIVAL ON SITE ARE TO BE RECORDED.
 - AT THE COMPLETION OF THE FILLING WORKS, THE ENGINEER IS TO SUBMIT A SEPARATE REPORT TO COUNCIL TO VERIFY ALL BORROW MATERIAL FILLING WORKS MEET THE TYPE B SPECIFICATION.
 - IN THE REPORT, THE GEOTECHNICAL ENGINEER IS TO SIGN OFF THE COMPLETED BORROW FILL WORKS THAT MEET TYPE B SPECIFICATIONS.
 - c. PRIOR TO THE COMMENCEMENT OF THE BORROW MATERIAL FILLING, BOTH THE SCIENTIST AND THE GEOTECHNICAL ENGINEER ARE TO INFORM COUNCIL SURVEILLANCE OF THE APPROVED SOURCE OR SOURCES OF BORROW MATERIAL AND SUBMIT TESTING RESULTS VERIFYING THE ACCEPTANCE OF THE MATERIAL.

ADDITIONAL GENERAL NOTES

23. EARTHWORKS & SEDIMENTATION CONTROL
 - a. NO POLLUTED OR SEDIMENT LADEN RUNOFF IS TO BE DISCHARGED DIRECTLY OR INDIRECTLY INTO EXISTING DRAINAGE SYSTEM DURING OR AFTER THE WORKS.
 - b. STOCKPILING OF MATERIAL IS TO BE PLACED AS DIRECTED BY THE SUPERINTENDENT.
24. ALL LEVELS & SETOUT TO MGAS5 AND AHD.
25. AS PART OF THESE WORKS DOUGLAS AND PARTNERS EARTHWORKS SPECIFICATION WILL TAKE PRECEDENCE OVER BCC EARTHWORKS REQUIREMENTS.
26. PIPE BEDDING AND BACKFILL TO BE IN ACCORDANCE WITH BCC SPECIFICATION 701A.
27. ABORIGINAL PROTECTION REQUIREMENTS MUST BE ADHERED TO AS PER PLANNING PERMIT CONDITIONS 6 AND 7.
28. ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED AND APPROVED AS PER PLANNING PERMIT CONDITION 5.
29. ADHERE TO PLANNING PERMIT CONDITIONS 12 & 13.
30. OBTAIN APPROVAL FOR CONSTRUCTION VEHICLE ACCESS AS PER PLANNING PERMIT CONDITION 44.

0	09/12/22	ISSUED FOR CONSTRUCTION	TS	VE	09/12/22
Revision	Date	Reason	Drawn	Checked	

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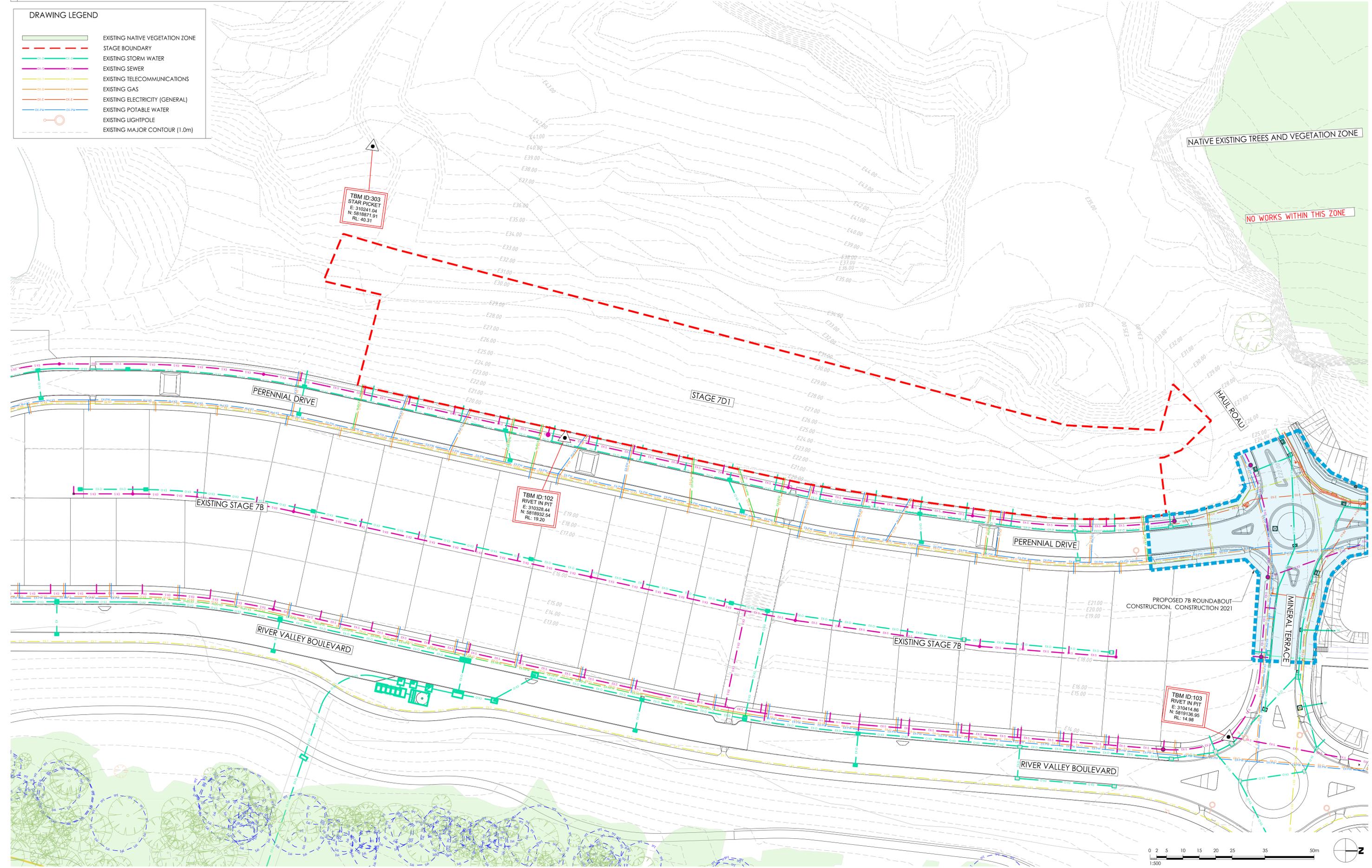
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Project RIVER VALLEY - STAGE 7D1		Drawing File NOTES PAGE			
Client YOURLAND		Drawn By TS	Checked By VE	Drawn Scale N/A @ A1	Date of first issue 09/12/22
Reason of issue ISSUED FOR CONSTRUCTION					
Project Number 15006	Origin CJA	Zone 7D1	Level 00	File Type DWG	Revision 0

DRAWING LEGEND

- EXISTING NATIVE VEGETATION ZONE
- - - STAGE BOUNDARY
- EXISTING STORM WATER
- EXISTING SEWER
- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY (GENERAL)
- EXISTING POTABLE WATER
- EXISTING LIGHTPOLE
- - - EXISTING MAJOR CONTOUR (1.0m)



Revised	Date	By	Checked	TS	WT
0	09.12.22	ISSUED FOR CONSTRUCTION			

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Project: RIVER VALLEY - STAGE 7D1
 Client: YOURLAND
 Issued for Construction

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15006	CJA	7D1	00	DWG	C	0100	0

Drawn By: TS
 Checked By: VB
 Date of Issue: 09.12.22

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Project: RIVER VALLEY - STAGE 7D1		Drawing Title: OVERALL LAYOUT PLAN	
Client: YOURLAND		Drawn By: IS	Checked By: VB
Issued For Construction		Drawn Scale: 1:1000 @ A1	Date of First Issue: 09.12.22
Project Number: 15006	Origin: CJA	Zone: 7D1	Level: 00
File Type: DWG	Base: C	Number: 1000	Revision: 0

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0	09.12.22	ISSUED FOR CONSTRUCTION	IS	VB
Revised	Date	Reason	Drawn	Checked

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DRAWING LEGEND

HATCHING

- EXISTING VEHICLE CROSSING
- PROPOSED LOTS UNDER 7D1
- PROPOSED REINFORCED EARTH WALL
- PROPOSED 1.5m HIGH ROCK RETAINING WALL
- PRIVATE TITLE LANDSCAPING
- PROPOSED 1.5m MAINTENANCE PATH
- PROPOSED PRECAST CONCRETE SLEEPER RETAINING WALL

LINETYPES

- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY (GENERAL)
- EXISTING NBN
- EXISTING POTABLE WATER
- EXISTING STORM WATER
- EXISTING SEWER
- PROPOSED STORM WATER
- EXISTING MINOR CONTOUR (1.0m)
- EXISTING MAJOR CONTOUR (5.0m)
- PROPOSED MINOR CONTOUR (0.5m)
- PROPOSED MAJOR CONTOUR (2.5m)

BLOCKS/SYMBOLS

- PROPOSED LIGHTPOLE
- EXISTING LIGHTPOLE
- PROPOSED STORM WATER PITS
- PROPOSED FLUSH OUT
- PROPOSED LEVEL
- EXISTING LEVEL

EXTEND ALL EXISTING HOUSE DRAIN AND SERVICES CONNECTIONS 1m BEYOND LOTS FRONT ROCK RETAINING WALL FOR LOT NO. 2 - 18

DRAINAGE PIPES AND PITS IN LANDSCAPE RETAINING WALL MOVED TO ACCOMMODATE 1m WIDE GABION RETAINING WALL

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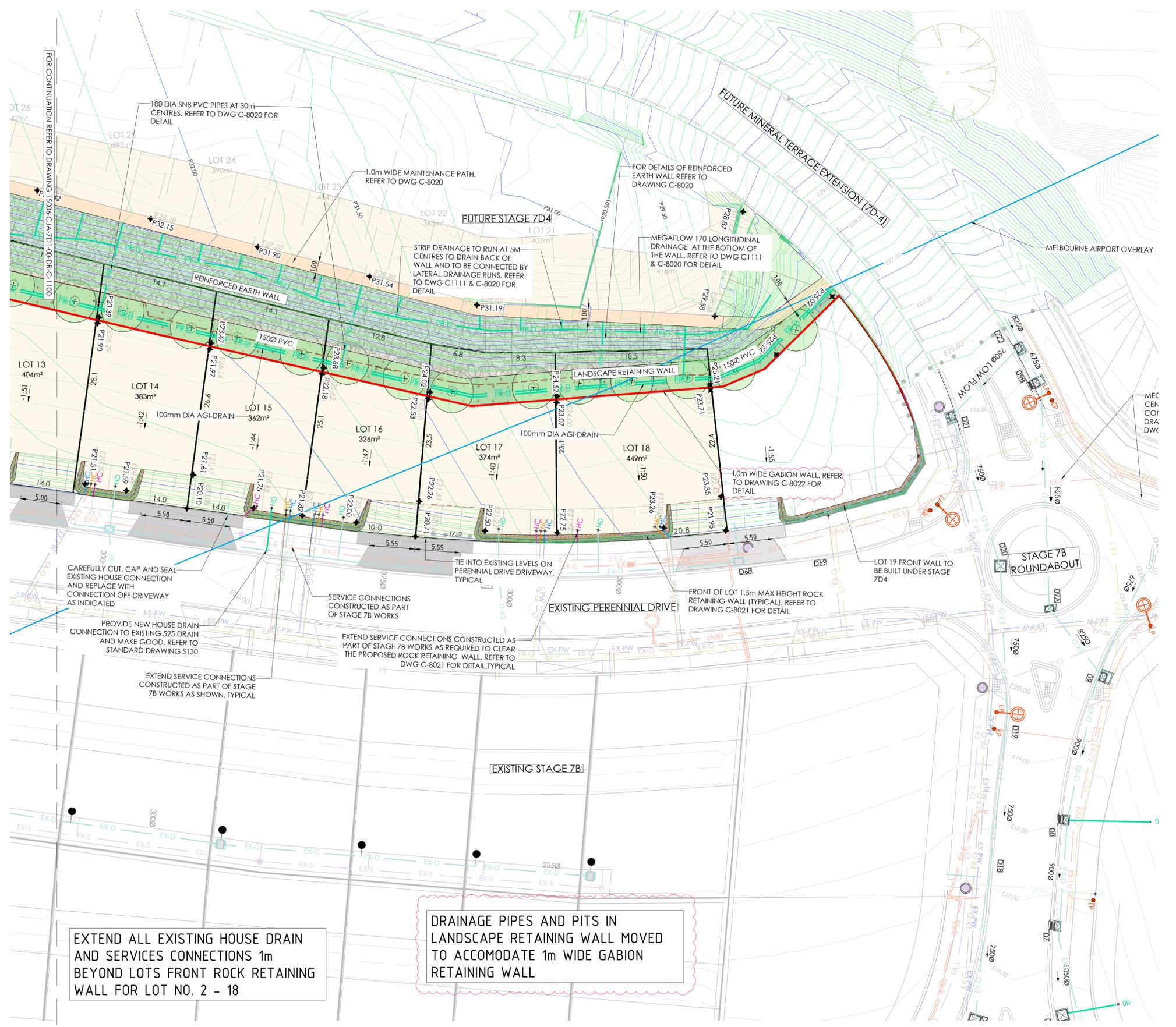
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Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued for construction

Drawn By	Checked By	Drawn Scale	Date of first issue
TS	VE	1:500 @ A1	09.12.22

Project Number: 15006 | Origin: CJA | Zone: 7D1 | Level: 00 | File Type: DWG | Revision: C | Number: 1100 | Revision: 2

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DRAWING LEGEND

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- PROPOSED 1.5m HIGH ROCK RETAINING WALL
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- PROPOSED STORM WATER
- EXISTING MINOR CONTOUR (1.0m)
- EXISTING MAJOR CONTOUR (5.0m)
- PROPOSED MINOR CONTOUR (0.5m)
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- EXISTING LIGHTPOLE
- PROPOSED STORM WATER PITS
- PROPOSED FLUSH OUT
- PROPOSED LEVEL
- EXISTING LEVEL



2	09.07.23	ISSUED FOR CONSTRUCTION	TS	VR
1	17.03.23	ISSUED FOR CONSTRUCTION	TS	VR
0	09.12.22	ISSUED FOR CONSTRUCTION	TS	VR
Revised Date	Reason	Drawn	Checked	

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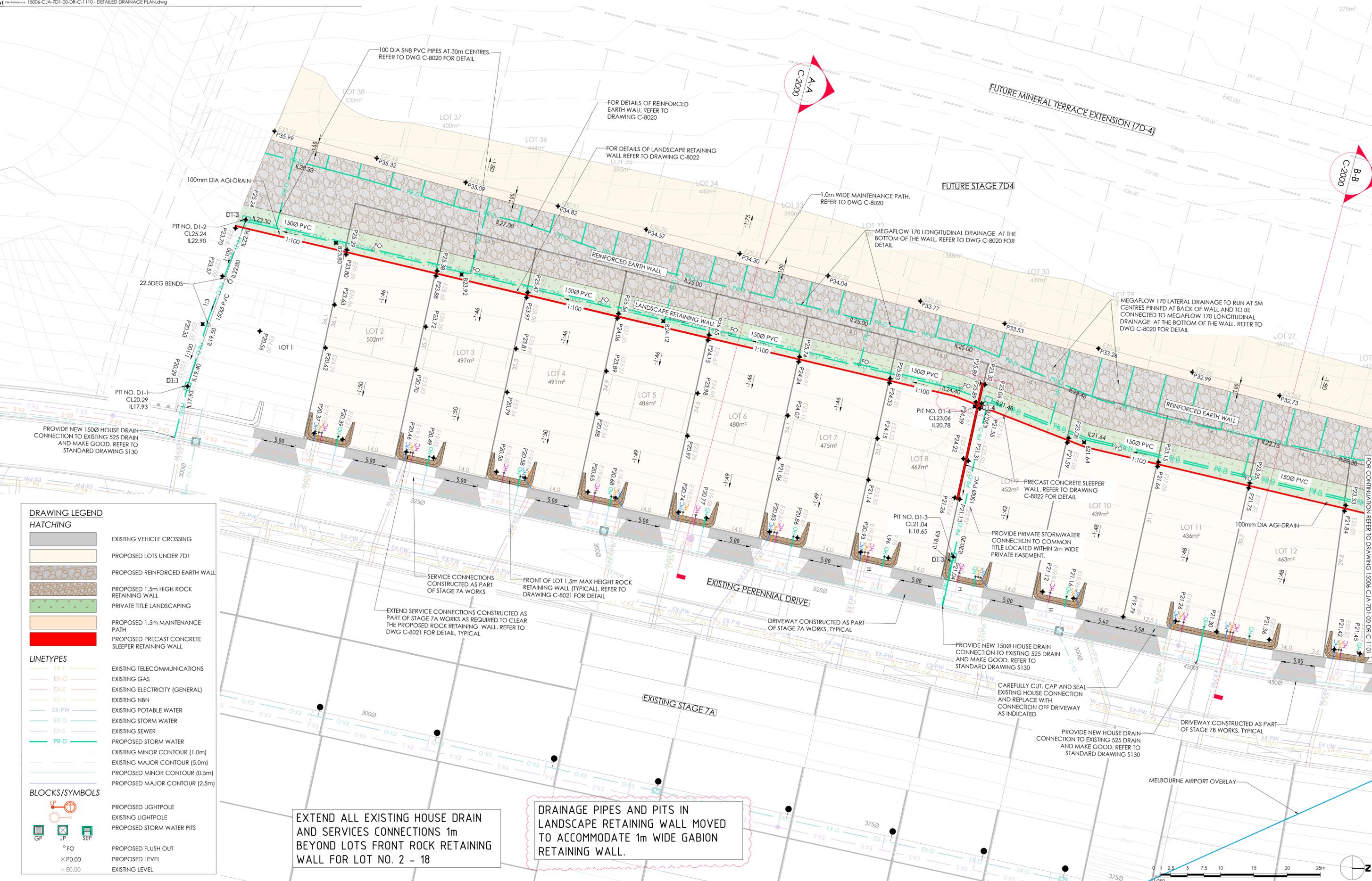
CIVIL SITeworks

Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued for Construction

Drawn By: TS
Checked By: VR
Drawn Scale: 1:250 @ A1
Date of first issue: 09.12.22

Project Number: 15006
Origin: CJA
Zone: 7D1
Level: 00
File Type: DWG
Rev: D
Number: 1101
Revision: 2

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DRAWING LEGEND

HATCHING

- EXISTING VEHICLE CROSSING
- PROPOSED LOTS UNDER 7D1
- PROPOSED REINFORCED EARTH WALL
- PROPOSED 1.5m HIGH ROCK RETAINING WALL
- PRIVATE TITLE LANDSCAPING
- PROPOSED 1.5m MAINTENANCE PATH
- PROPOSED PRECAST CONCRETE SLEEPER RETAINING WALL

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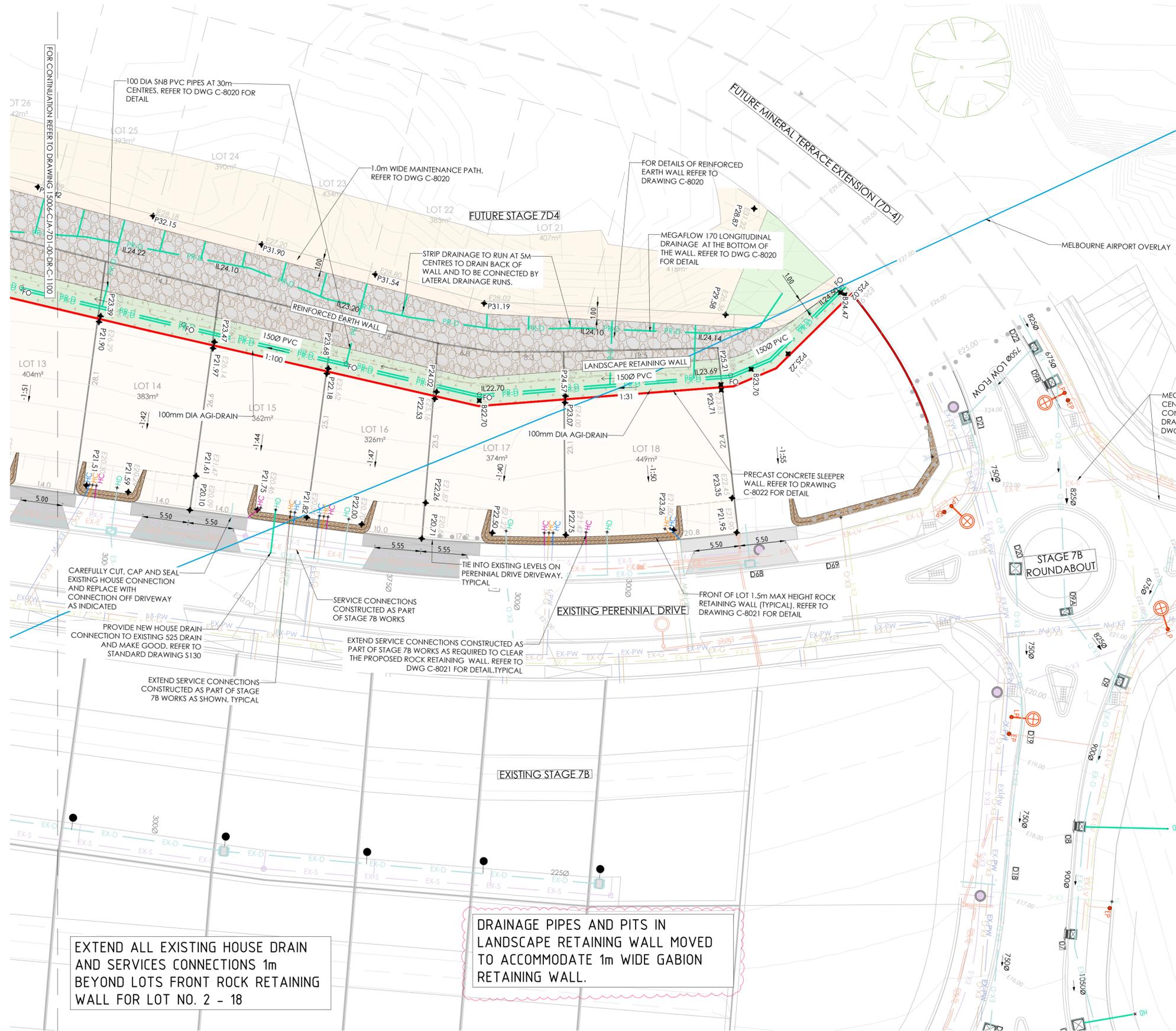
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T: (03) 9583 2000 | E: info@cjarms.com | W: www.cjarms.com

Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued for Construction

Drawn By	Checked By	Drawn Scale	Date of first issue
TS	VE	1:250 @ A1	18.05.23

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15006	CJA	7D1	XX	DR	C	1110	2

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DRAWING LEGEND

HATCHING

- EXISTING VEHICLE CROSSING
- PROPOSED LOTS UNDER 7D1
- PROPOSED REINFORCED EARTH WALL
- PROPOSED 1.5m HIGH ROCK RETAINING WALL
- PRIVATE TITLE LANDSCAPING
- PROPOSED 1.5m MAINTENANCE PATH
- PROPOSED PRECAST CONCRETE SLEEPER RETAINING WALL

LINETYPES

- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY (GENERAL)
- EXISTING NBN
- EXISTING POTABLE WATER
- EXISTING STORM WATER
- EXISTING SEWER
- PROPOSED STORM WATER
- EXISTING MINOR CONTOUR (1.0m)
- EXISTING MAJOR CONTOUR (5.0m)
- PROPOSED MINOR CONTOUR (0.5m)
- PROPOSED MAJOR CONTOUR (2.5m)

BLOCKS/SYMBOLS

- PROPOSED LIGHTPOLE
- EXISTING LIGHTPOLE
- PROPOSED STORM WATER PITS
- PROPOSED FLUSH OUT
- PROPOSED LEVEL
- EXISTING LEVEL

EXTEND ALL EXISTING HOUSE DRAIN AND SERVICES CONNECTIONS 1m BEYOND LOTS FRONT ROCK RETAINING WALL FOR LOT NO. 2 - 18

DRAINAGE PIPES AND PITS IN LANDSCAPE RETAINING WALL MOVED TO ACCOMMODATE 1m WIDE GABION RETAINING WALL.

Note for Contractors
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Be aware of UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

*ALL LOTS TO CONNECT TO EXISTING SERVICE PROVISIONS CONSTRUCTED AS PART OF STAGE 7A&B WORKS. SERVICE CONNECTIONS TO BE EXTENDED AS REQUIRED TO CLEAR THE PROPOSED FRONT OF LOT ROCK WALL. STORMWATER CONVEYANCE AND TREATMENT IS AS PER THE ENDORSED STAGE 7A/B STRATEGY.

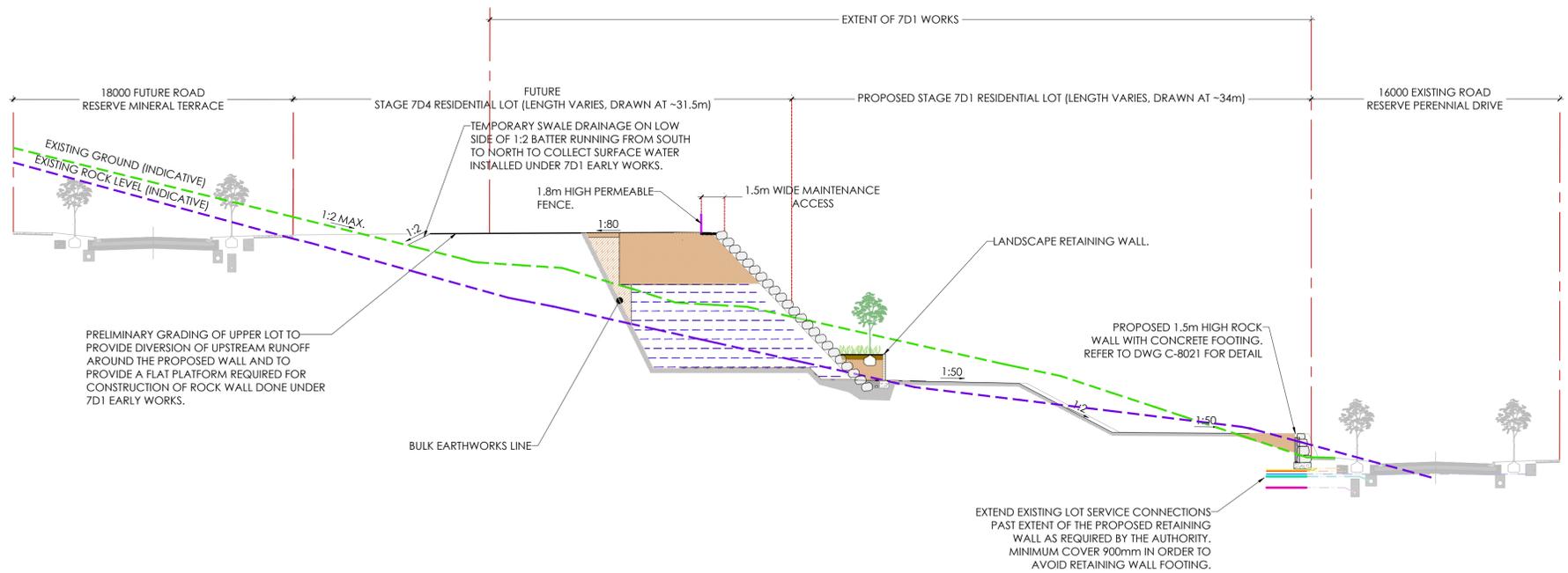
*CONTRACTOR SHOULD MAKE GOOD ANY DAMAGES TO EXISTING FOOTPATH/DRIVEWAYS/VERGE TO COUNCIL REQUIREMENTS.

ISSUED FOR CONSTRUCTION

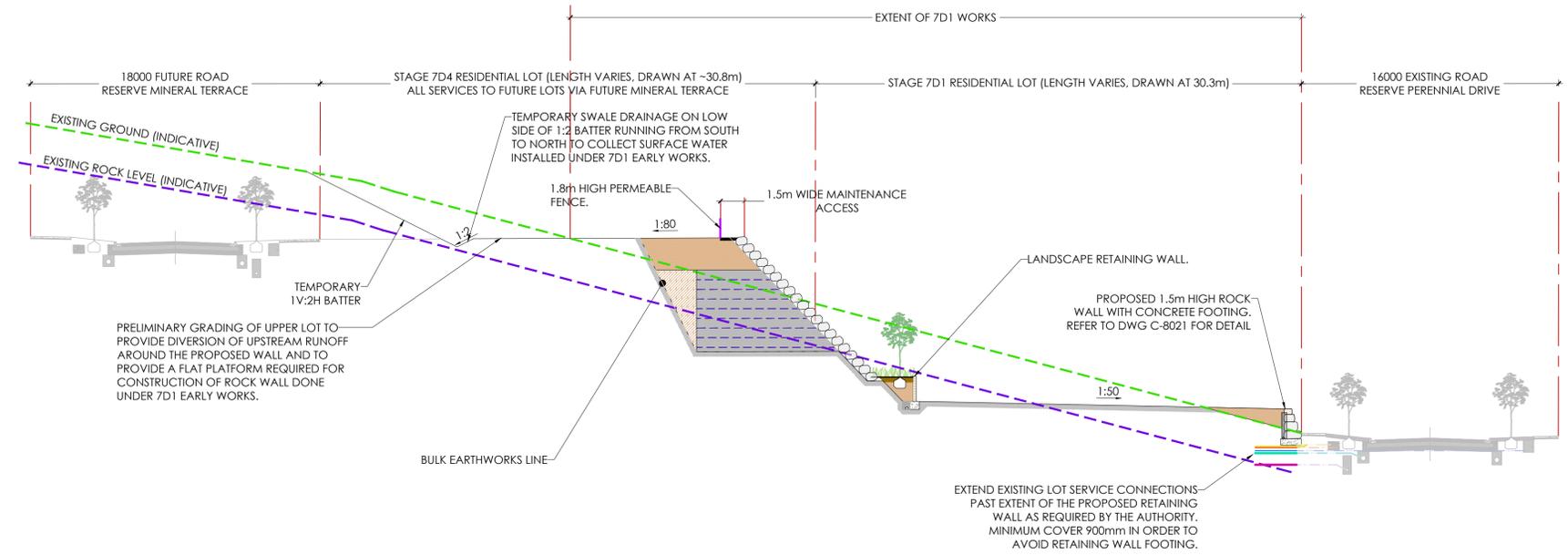


Project: RIVER VALLEY - STAGE 7D1		Drawing Title: DETAILED DRAINAGE PLAN SHEET 2 OF 2	
Client: YOURLAND		Revision: 1	
Issued for Construction		Date of Issue: 18.05.23	
Drawn By: TS	Checked By: VE	Drawn Scale: 1:250 @ A1	Date of Issue: 18.05.23
Project Number: 15006	Origin: CJA	Zone: 7D1	Level: XX
File Type: DR	Revs: C	Number: 1111	Revision: 1

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A-A WEST TO EAST - WHOLE SITE - SCHEMATIC SECTION
SCALE 1:200



B-B WEST TO EAST - WHOLE SITE - SCHEMATIC SECTION
SCALE 1:200

Note for Contractors
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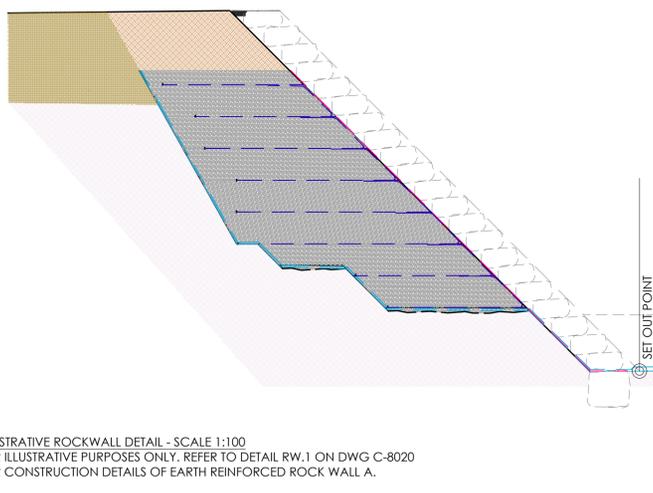
This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.

Deal before you dig, BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

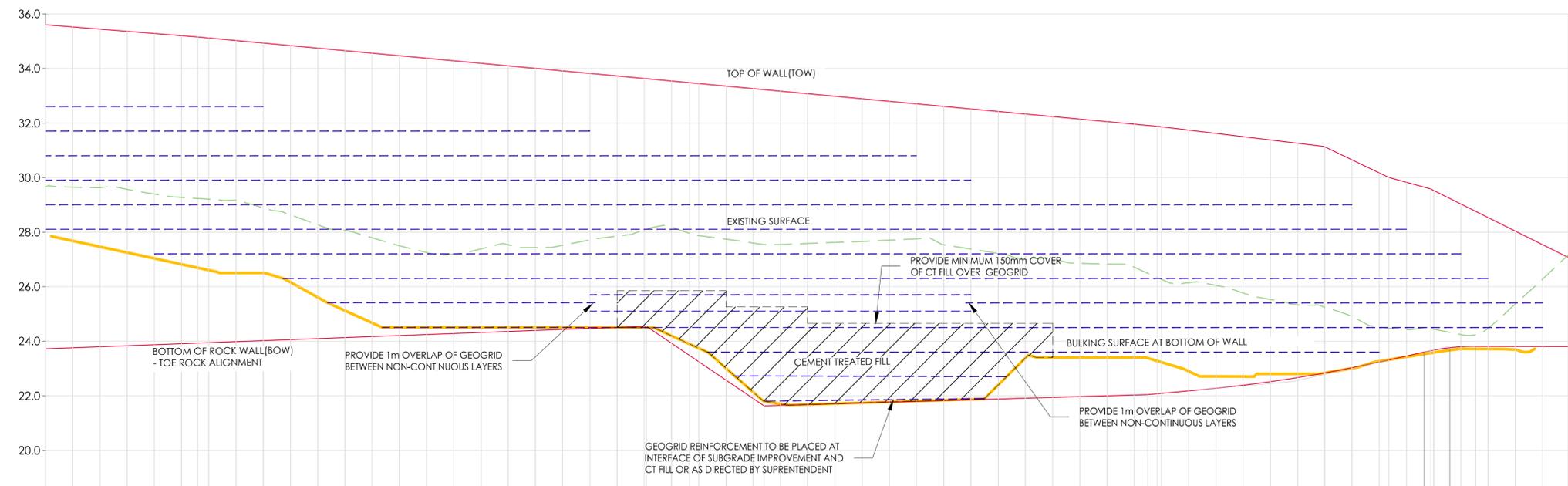
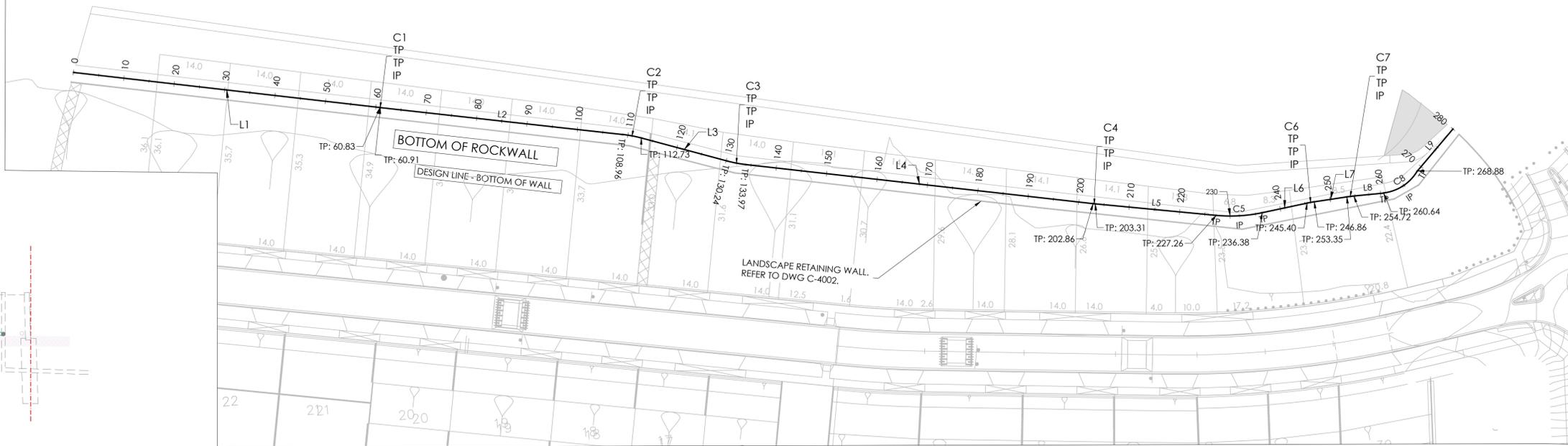
ISSUED FOR CONSTRUCTION



Project: RIVER VALLEY - STAGE 7D1		Drawing Title: TYPICAL SECTION - WHOLE SITE	
Client: YOURLAND		Drawn By: BP	Checked By: VE
Issued for Construction		Drawn Scale: 1:200 @ A1	Date of first issue: 09.12.22
Project Number: 15006	Origin: CJA	Zone: 7D1	Level: 00
File Type: DWG	Rev: C	Number: 2000	Revision: 0



ILLUSTRATIVE ROCKWALL DETAIL - SCALE 1:100
FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO DETAIL RW.1 ON DWG C-8020
FOR CONSTRUCTION DETAILS OF EARTH REINFORCED ROCK WALL A.



REFER TO DWG C-4001 FOR GEOSYNTHETIC REINFORCEMENT TABLE

	0.00	10.00	20.00	28.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	118.32	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	204.23	210.00	220.00	230.00	234.82	240.00	246.78	250.00	254.42	260.00	270.00	279.72
TOW LEVEL	35.60	35.44	35.28	35.15	35.12	34.93	34.74	34.56	34.37	34.19	34.00	33.82	33.63	33.48	33.44	33.26	33.07	32.89	32.70	32.51	32.33	32.14	31.96	31.88	31.74	31.50	31.26	31.14	30.65	30.00	29.82	29.58	29.03	28.03	27.07
BOW LEVEL	23.72	23.79	23.87	23.93	23.94	24.02	24.09	24.17	24.24	24.32	24.39	24.47	24.54	23.47	23.25	21.90	21.67	21.73	21.79	21.85	21.91	21.97	22.03	22.07	22.18	22.38	22.67	22.83	23.02	23.31	23.46	23.65	23.79	23.81	23.80
LEVEL DIFF.	11.88	11.65	11.41	11.22	11.17	10.91	10.65	10.39	10.13	9.87	9.61	9.35	9.09	10.00	10.20	11.36	11.40	11.15	10.91	10.66	10.42	10.17	9.93	9.80	9.56	9.11	8.59	8.31	7.62	6.69	6.37	5.93	5.23	4.23	3.27
CHAINAGE	0.00	10.00	20.00	28.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	118.32	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	204.23	210.00	220.00	230.00	234.82	240.00	246.78	250.00	254.42	260.00	270.00	279.72

LOWER LOTS - BOTTOM OF ROCK WALL A - LONG SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:100 (5x)

2 GEOGRID REINFORCEMENT UPDATED

Note for Contractors
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NOTE:
THE INFORMATION CONTAINED ON THIS PLAN IS A REPRESENTATION OF THE DESIGN PREPARED BY DOUGLAS PARTNERS. REFER TO:
- DOUGLAS PARTNERS REPORT #95572.01_R001 FOR DESIGN AND CERTIFICATION OF THE ROCK WALL
DOUGLAS PARTNERS REPORT #95572.01_R002 FOR CONSTRUCTION SPECIFICATION.
ANY DISCREPANCIES BETWEEN THE DESIGN DRAWINGS AND THE DOUGLAS PARTNERS REQUIREMENTS SHALL BE REFERRED TO THE SUPERINTENDENT.

ISSUED FOR CONSTRUCTION



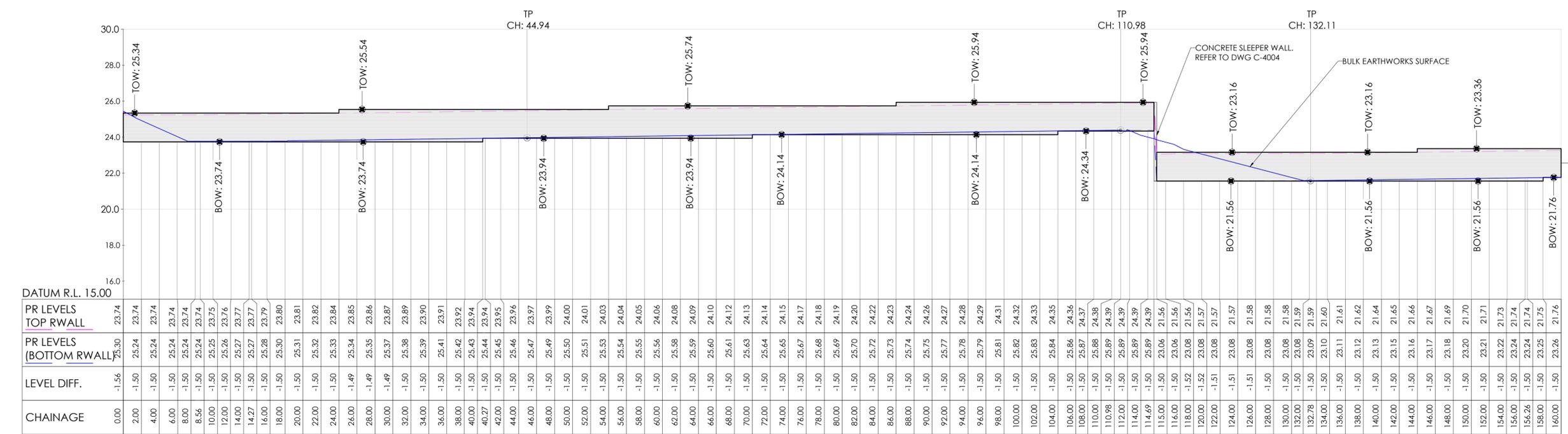
CIVIL SITWORKS
MELBOURNE
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Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Purpose of Issue: ISSUED FOR CONSTRUCTION

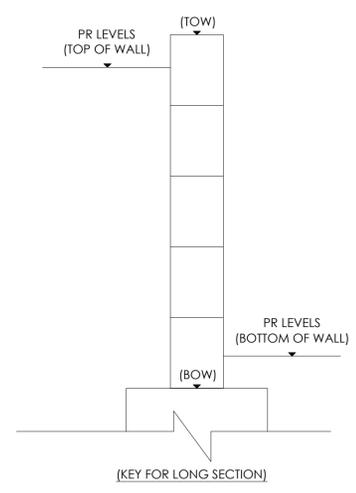
Drawn By: IS
Checked By: VR
Drawn Scale: 1:500 @ A1
Date of First Issue: 09.12.22

Project Number: 15006
Drawn: CJA
Issue: 7D1
Level: 00
File Type: DWG
Room: C
Number: 4000
Revision: 2

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LANDSCAPE WALL - BOW - HA - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)



0	09.12.22	ISSUED FOR CONSTRUCTION	TS	VE
Revised/	Date	Reason	Drawn	Checked

Note for Contractors
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RETAINING WALL SECTIONS ARE PROVIDED BY CJ ARMS TO REPRESENT THE PROPOSED GROUND LEVEL AT THE TOP AND BOTTOM OF RETAINING WALLS.

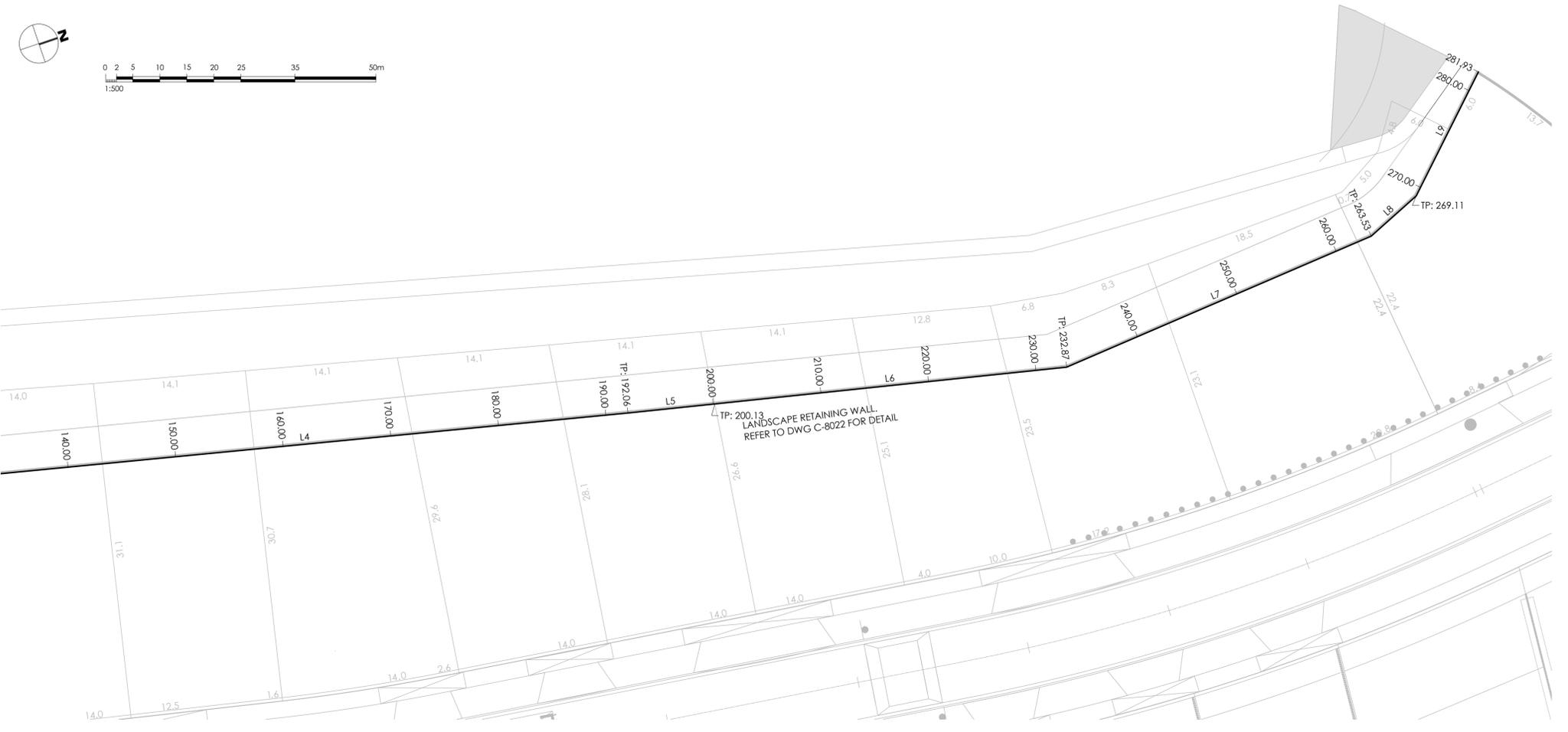
THE CONTRACTOR IS TO DETERMINE OPTIMAL CONCRETE SLEEPER HEIGHT/POST SPACING AND ASSOCIATED FOUNDATIONS TO ACHIEVE THE PROPOSED GROUND LEVELS SHOWN BY CJA.

REFER TO DRAWING C-8022 FOR RETAINING WALL DETAILS.

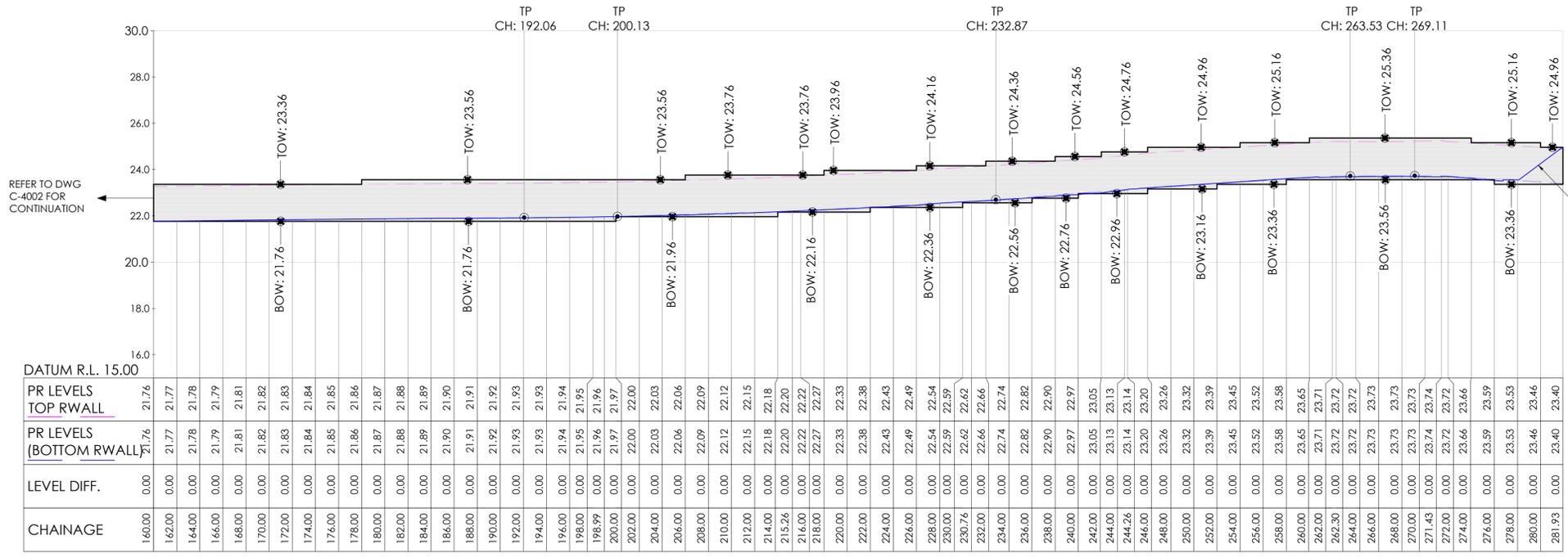
ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7D1
 Client: YOURLAND
 Issued for Construction

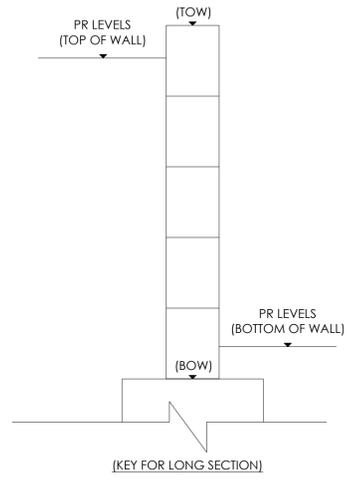
Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15006	CJA	7D1	00	DWG	C	4002	0



Set Out Table for LANDSCAPE WALL - BOW - HA						
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	BEARING
L1	START	0.00	310282.386	5818857.850	44.94	012° 01' 12"
	END	44.94	310291.745	5818901.807		
L2	START	44.94	310291.745	5818901.807	66.04	011° 57' 15"
	END	110.98	310305.424	5818966.414		
L3	START	110.98	310305.424	5818966.414	21.13	019° 56' 29"
	END	132.11	310312.631	5818986.278		
L4	START	132.11	310312.631	5818986.278	59.95	011° 59' 09"
	END	192.06	310325.080	5819044.920		
L5	START	192.06	310325.080	5819044.920	8.07	011° 33' 22"
	END	200.13	310326.697	5819052.829		
L6	START	200.13	310326.697	5819052.829	32.73	011° 32' 16"
	END	232.87	310333.245	5819084.901		
L7	START	232.87	310333.245	5819084.901	30.66	354° 15' 56"
	END	263.53	310330.181	5819115.412		
L8	START	263.53	310330.181	5819115.412	5.58	335° 47' 13"
	END	269.11	310327.893	5819120.500		
L9	START	269.11	310327.893	5819120.500	12.82	314° 10' 42"
	END	281.93	310318.696	5819129.437		



LANDSCAPE WALL - BOW - HA - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)



Revised	Date	By	Checked
0	09.12.22	ISSUED FOR CONSTRUCTION	

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RETAINING WALL SECTIONS ARE PROVIDED BY CJ ARMS TO REPRESENT THE PROPOSED GROUND LEVEL AT THE TOP AND BOTTOM OF RETAINING WALLS.

THE CONTRACTOR IS TO DETERMINE OPTIMAL CONCRETE SLEEPER HEIGHT/POST SPACING AND ASSOCIATED FOUNDATIONS TO ACHIEVE THE PROPOSED GROUND LEVELS SHOWN BY CJA.

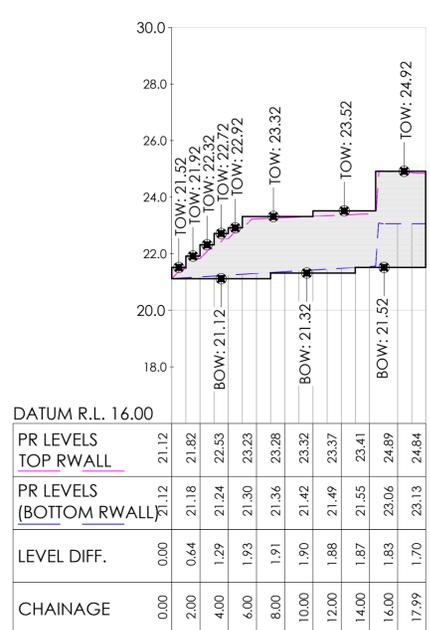
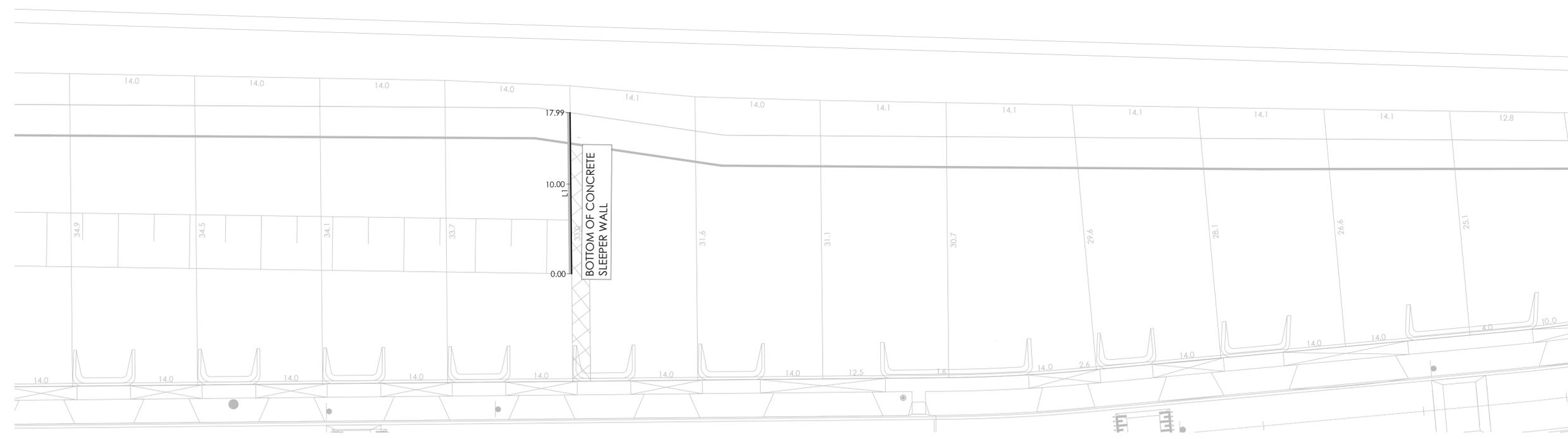
REFER TO DRAWING C-8022 FOR RETAINING WALL DETAILS.

ISSUED FOR CONSTRUCTION

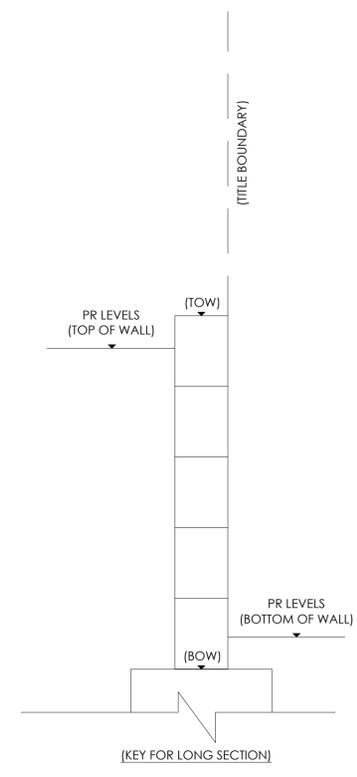


Project: RIVER VALLEY - STAGE 7D1		Client: YOURLAND		Issued for Construction	
Drawn By: TS	Checked By: VE	Drawn Scale: AS SHOWN @ A1	Date of first issue: 09.12.22	Project Number: 15006	Origin: CJA
Zone: 7D1	Level: 00	File Type: DWG	Rev: C	Number: 4003	Revision: 0

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CONCRETE SLEEPER WALL - BOW - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)



TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L1	START	0.00	310320.969			
	END	17.99	310303.317	17.99		281° 03' 39"



Revised	Date	By	Checked
0	09/12/22	ISSUED FOR CONSTRUCTION	

Note for Contractors
 The works described on this drawing must be undertaken by competent Contractors with an appropriate level of experience who have prepared appropriate Safe Work Method Statements (SWMS) relating to these works. The contractor is responsible for the management of all risks associated with the construction activities stated on this drawing.

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RETAINING WALL SECTIONS ARE PROVIDED BY CJ ARMS TO REPRESENT THE PROPOSED GROUND LEVEL AT THE TOP AND BOTTOM OF RETAINING WALLS.
 THE CONTRACTOR IS TO DETERMINE OPTIMAL CONCRETE SLEEPER HEIGHT/POST SPACING AND ASSOCIATED FOUNDATIONS TO ACHIEVE THE PROPOSED GROUND LEVELS SHOWN BY CJA.
 REFER TO DRAWING C-8022 FOR RETAINING WALL DETAILS.

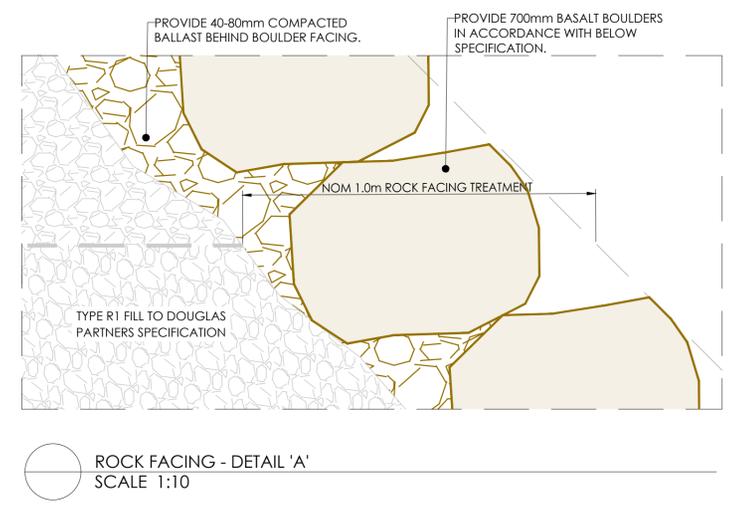
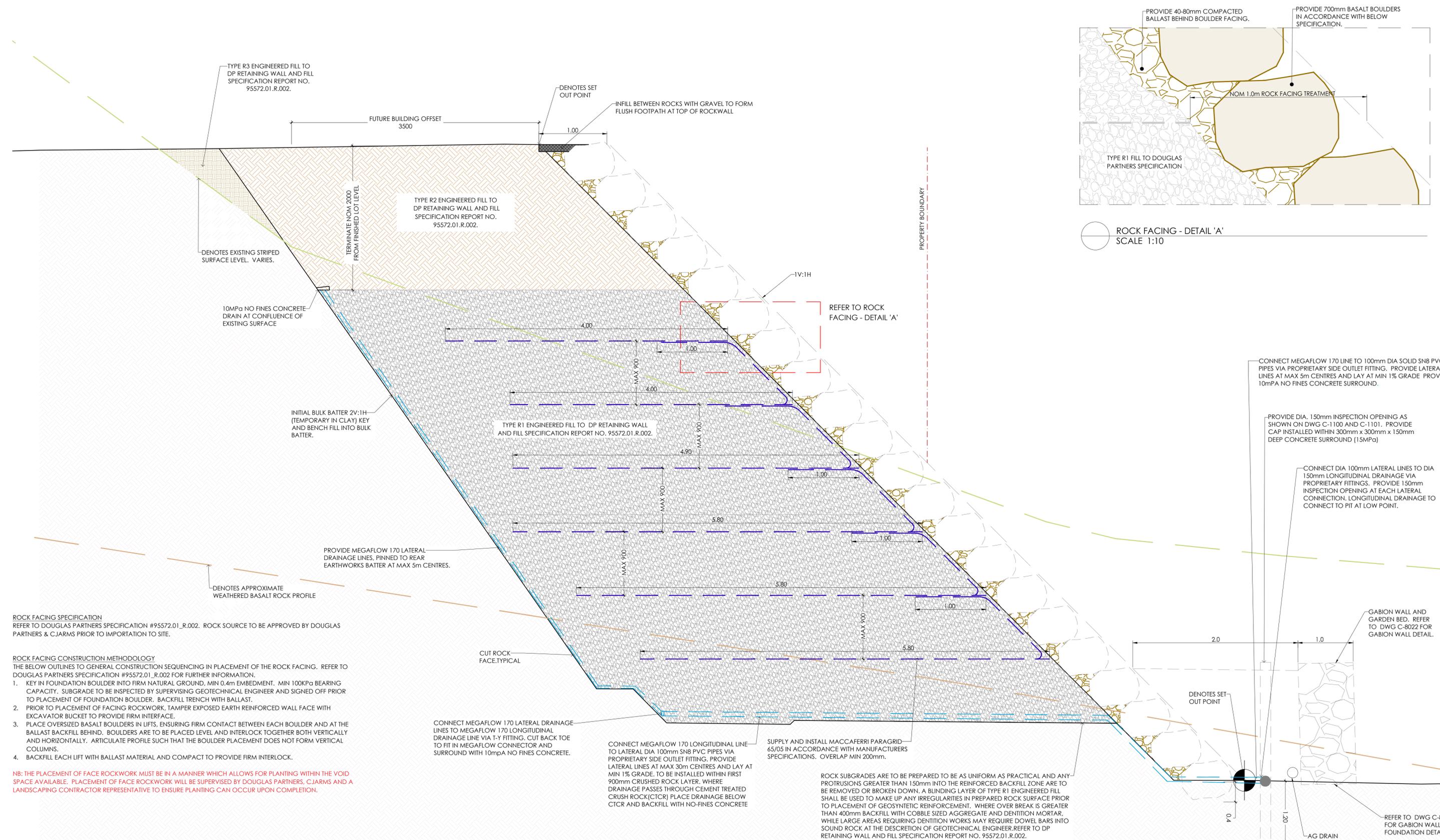
ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7D1
 Client: YOURLAND
 Issued for CONSTRUCTION

Drawn By: TS
 Checked By: VE
 Drawn Scale: AS SHOWN @ A1
 Date of first issue: 09/12/22

Revision: 0

Project Number: 15006 | Origin: CJA | Zone: 7D1 | Level: 00 | File Type: DWG | Role: C | Number: 4004 | Revision: 0



ROCK FACING SPECIFICATION
REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01_R.002. ROCK SOURCE TO BE APPROVED BY DOUGLAS PARTNERS & CJARMS PRIOR TO IMPORTATION TO SITE.

- ROCK FACING CONSTRUCTION METHODOLOGY**
THE BELOW OUTLINES TO GENERAL CONSTRUCTION SEQUENCING IN PLACEMENT OF THE ROCK FACING. REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01_R.002 FOR FURTHER INFORMATION.
- KEY IN FOUNDATION BOULDER INTO FIRM NATURAL GROUND, MIN 0.4m EMBEDMENT, MIN 100KPa BEARING CAPACITY. SUBGRADE TO BE INSPECTED BY SUPERVISING GEOTECHNICAL ENGINEER AND SIGNED OFF PRIOR TO PLACEMENT OF FOUNDATION BOULDER. BACKFILL TRENCH WITH BALLAST.
 - PRIOR TO PLACEMENT OF FACING ROCKWORK, TAMPER EXPOSED EARTH REINFORCED WALL FACE WITH EXCAVATOR BUCKET TO PROVIDE FIRM INTERFACE.
 - PLACE OVERSIZED BASALT BOULDERS IN LIFTS, ENSURING FIRM CONTACT BETWEEN EACH BOULDER AND AT THE BALLAST BACKFILL BEHIND. BOULDERS ARE TO BE PLACED LEVEL AND INTERLOCK TOGETHER BOTH VERTICALLY AND HORIZONTALLY. ARTICULATE PROFILE SUCH THAT THE BOULDER PLACEMENT DOES NOT FORM VERTICAL COLUMNS.
 - BACKFILL EACH LIFT WITH BALLAST MATERIAL AND COMPACT TO PROVIDE FIRM INTERLOCK.

NB: THE PLACEMENT OF FACE ROCKWORK MUST BE IN A MANNER WHICH ALLOWS FOR PLANTING WITHIN THE VOID SPACE AVAILABLE. PLACEMENT OF FACE ROCKWORK WILL BE SUPERVISED BY DOUGLAS PARTNERS, CJARMS AND A LANDSCAPING CONTRACTOR REPRESENTATIVE TO ENSURE PLANTING CAN OCCUR UPON COMPLETION.

RW.1 TYPICAL REINFORCED EARTH WALL DETAIL (TYP SECTION TAKEN FROM CH220.0)
SCALE 1:25

NOTES:

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NOTE:
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- DOUGLAS PARTNERS REPORT #95572.01_R002 FOR CONSTRUCTION SPECIFICATION.
- DOUGLAS PARTNERS REPORT #95572.01_R004 FOR DESIGN AND CERTIFICATION OF THE ROCK WALL.
ANY DISCREPANCIES BETWEEN THE DESIGN DRAWINGS AND THE DOUGLAS PARTNERS REQUIREMENTS SHALL BE REFERRED TO THE SUPERINTENDENT.

ISSUED FOR CONSTRUCTION



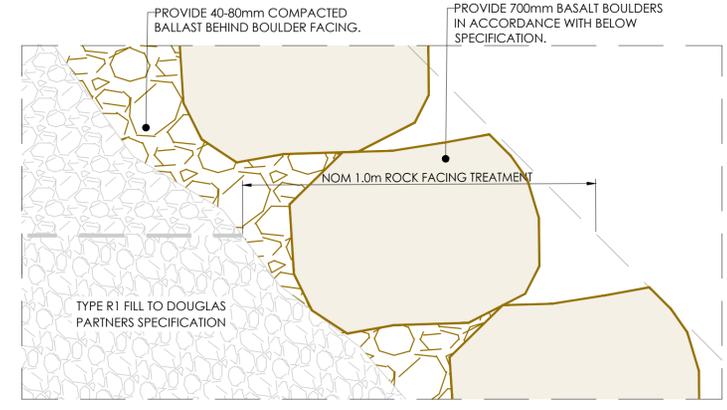
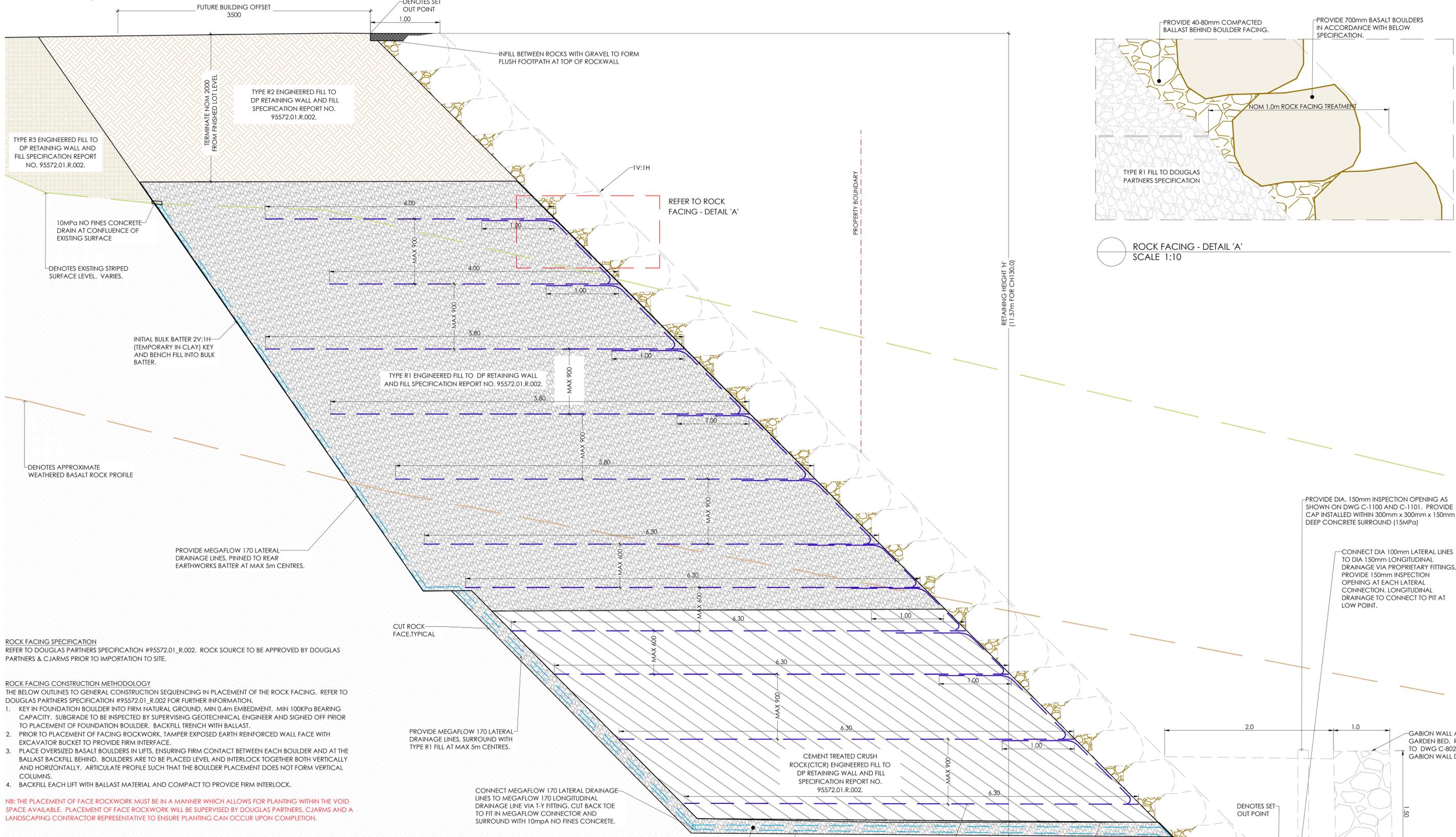
CIVIL SITWORKS
MELBOURNE
T: (03) 9385 2800 | E: info@cjarms.com | W: www.cjarms.com

Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued For Construction

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15006	CJA	7D1	00	DR	C	8018	1

Drawn By: SP
Checked By: VB
Drawn Scale: AS SHOWN @ A1
Date of First Issue: 24.05.23

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ROCK FACING - DETAIL 'A'
SCALE 1:10

TYPE R3 ENGINEERED FILL TO DP RETAINING WALL AND FILL SPECIFICATION REPORT NO. 95572.01.R.002.

TERMINATE NOM 2000 FROM FINISHED LOT LEVEL

FUTURE BUILDING OFFSET 3500

DENOTES SET OUT POINT 1.00

IN FILL BETWEEN ROCKS WITH GRAVEL TO FORM FLUSH FOOTPATH AT TOP OF ROCK WALL

10MPa NO FINES CONCRETE DRAIN AT CONFLUENCE OF EXISTING SURFACE

DENOTES EXISTING STRIPED SURFACE LEVEL. VARIES.

INITIAL BULK BATTER 2V:1H (TEMPORARY IN CLAY) KEY AND BENCH FILL INTO BULK BATTER.

DENOTES APPROXIMATE WEATHERED BASALT ROCK PROFILE

TYPE R1 ENGINEERED FILL TO DP RETAINING WALL AND FILL SPECIFICATION REPORT NO. 95572.01.R.002.

TYPE R2 ENGINEERED FILL TO DP RETAINING WALL AND FILL SPECIFICATION REPORT NO. 95572.01.R.002.

PROVIDE MEGAFLOW 170 LATERAL DRAINAGE LINES, PINNED TO REAR EARTHWORKS BATTER AT MAX 5m CENTRES.

ROCK FACING SPECIFICATION
REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01.R.002. ROCK SOURCE TO BE APPROVED BY DOUGLAS PARTNERS & C.JARMS PRIOR TO IMPORTATION TO SITE.

ROCK FACING CONSTRUCTION METHODOLOGY
THE BELOW OUTLINES TO GENERAL CONSTRUCTION SEQUENCING IN PLACEMENT OF THE ROCK FACING. REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01.R.002 FOR FURTHER INFORMATION.

- KEY IN FOUNDATION BOULDER INTO FIRM NATURAL GROUND, MIN 0.4m EMBEDMENT. MIN 100kPa BEARING CAPACITY. SUBGRADE TO BE INSPECTED BY SUPERVISING GEOTECHNICAL ENGINEER AND SIGNED OFF PRIOR TO PLACEMENT OF FOUNDATION BOULDER. BACKFILL TRENCH WITH BALLAST.
- PRIOR TO PLACEMENT OF FACING ROCKWORK, TAMPER EXPOSED EARTH REINFORCED WALL FACE WITH EXCAVATOR BUCKET TO PROVIDE FIRM INTERFACE.
- PLACE OVERSIZED BASALT BOULDERS IN LIFTS, ENSURING FIRM CONTACT BETWEEN EACH BOULDER AND AT THE BALLAST BACKFILL BEHIND. BOULDERS ARE TO BE PLACED LEVEL AND INTERLOCK TOGETHER BOTH VERTICALLY AND HORIZONTALLY. ARTICULATE PROFILE SUCH THAT THE BOULDER PLACEMENT DOES NOT FORM VERTICAL COLUMNS.
- BACKFILL EACH LIFT WITH BALLAST MATERIAL AND COMPACT TO PROVIDE FIRM INTERLOCK.

NB: THE PLACEMENT OF FACE ROCKWORK MUST BE IN A MANNER WHICH ALLOWS FOR PLANTING WITHIN THE VOID SPACE AVAILABLE. PLACEMENT OF FACE ROCKWORK WILL BE SUPERVISED BY DOUGLAS PARTNERS, C.JARMS AND A LANDSCAPING CONTRACTOR REPRESENTATIVE TO ENSURE PLANTING CAN OCCUR UPON COMPLETION.

RW.1 TYPICAL REINFORCED EARTH WALL DETAIL (TYP SECTION TAKEN FROM CH130.0)
SCALE 1:25

- NOTES:**
- REFER TO LONGSECTION FOR LENGTH OF GEOGRID LAYERS INSTALLATION RL AND EMBEDMENT LENGTH.
 - REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01.R.002 FOR ALL HOLD POINTS.

PROVIDE MEGAFLOW 170 LATERAL DRAINAGE LINES, SURROUND WITH TYPE R1 FILL AT MAX 5m CENTRES.

CONNECT MEGAFLOW 170 LATERAL DRAINAGE LINES TO MEGAFLOW 170 LONGITUDINAL DRAINAGE LINE VIA T-Y FITTING. CUT BACK TOE TO FIT IN MEGAFLOW CONNECTOR AND SURROUND WITH 10MPa NO FINES CONCRETE.

DRAINAGE TRENCH BACKFILLED WITH TYPE R1 FILL

SUPPLY AND INSTALL MACCAFERRI PARAGRID 65/05 IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. OVERLAP MIN 200mm.

ROCK SUBGRADES ARE TO BE PREPARED TO BE AS UNIFORM AS PRACTICAL AND ANY PROTRUSIONS GREATER THAN 150mm INTO THE REINFORCED BACKFILL ZONE ARE TO BE REMOVED OR BROKEN DOWN. A BLINDING LAYER OF TYPE R1 ENGINEERED FILL SHALL BE USED TO MAKE UP ANY IRREGULARITIES IN PREPARED ROCK SURFACE PRIOR TO PLACEMENT OF GEOSYNTHETIC REINFORCEMENT. WHERE OVERTHROW IS GREATER THAN 400mm BACKFILL WITH COBBLE SIZED AGGREGATE AND DENTITION MORTAR, WHILE LARGE AREAS REQUIRING DENTITION WORKS MAY REQUIRE DOWEL BARS INTO SOUND ROCK AT THE DISCRETION OF GEOTECHNICAL ENGINEER. REFER TO DP RETAINING WALL AND FILL SPECIFICATION REPORT NO. 95572.01.R.002.

CONNECT MEGAFLOW 170 LONGITUDINAL LINE TO LATERAL DIA 100mm S18 PVC PIPES VIA PROPRIETARY SIDE OUTLET FITTING. PROVIDE LATERAL LINES AT MAX 30m CENTRES AND LAY AT MIN 1% GRADE. TO BE INSTALLED WITHIN NO-FINES CONCRETE

PROVIDE DIA. 150mm INSPECTION OPENING AS SHOWN ON DWG C-1100 AND C-1101. PROVIDE CAP INSTALLED WITHIN 300mm x 300mm x 150mm DEEP CONCRETE SURROUND (15MPa)

CONNECT DIA 100mm LATERAL LINES TO DIA 150mm LONGITUDINAL DRAINAGE VIA PROPRIETARY FITTINGS. PROVIDE 150mm INSPECTION OPENING AT EACH LATERAL CONNECTION. LONGITUDINAL DRAINAGE TO CONNECT TO PIT AT LOW POINT.

GABION WALL AND GARDEN BED. REFER TO DWG C-8022 FOR GABION WALL DETAIL.

REFER TO DWG C-8022 FOR GABION WALL FOUNDATION DETAIL.

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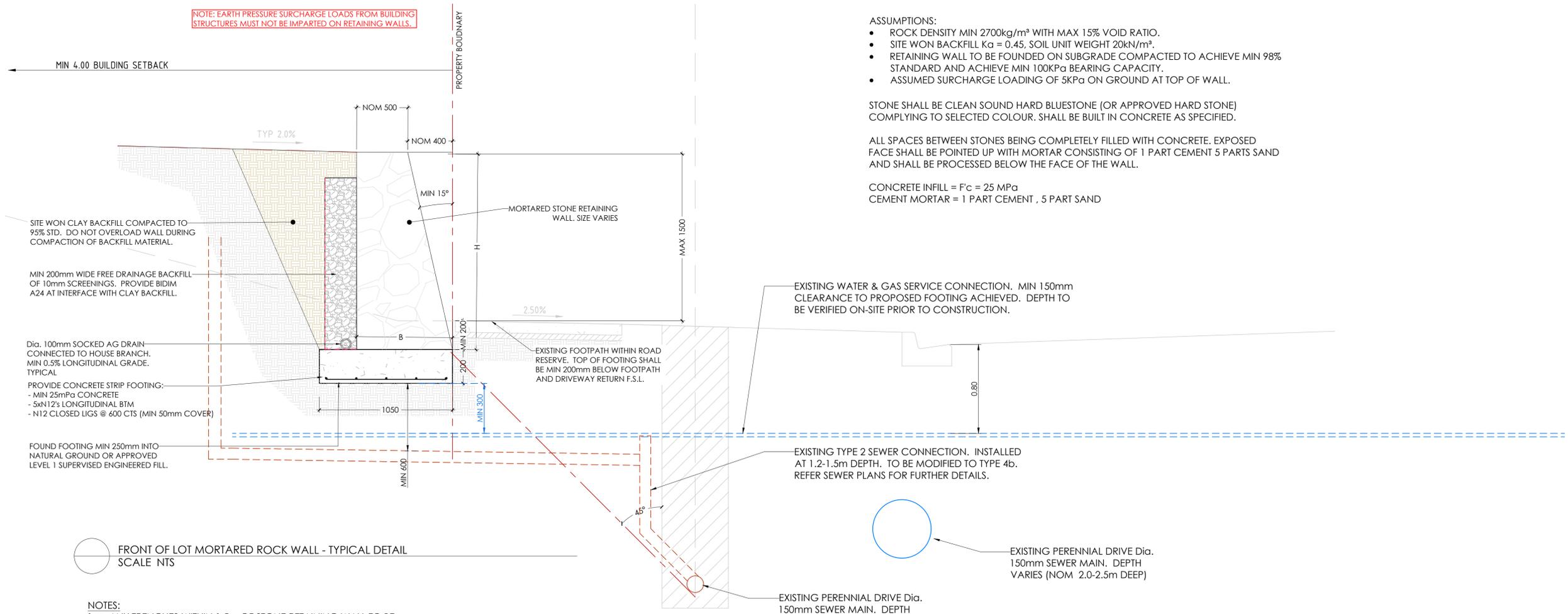
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NOTE:
THE INFORMATION CONTAINED ON THIS PLAN IS A REPRESENTATION OF THE DESIGN PREPARED BY DOUGLAS PARTNERS. REFER TO:
- DOUGLAS PARTNERS REPORT #95572.01.R002 FOR CONSTRUCTION SPECIFICATION.
- DOUGLAS PARTNERS REPORT #95572.01.R004 FOR DESIGN AND CERTIFICATION OF THE ROCK WALL.
ANY DISCREPANCIES BETWEEN THE DESIGN DRAWINGS AND THE DOUGLAS PARTNERS REQUIREMENTS SHALL BE REFERRED TO THE SUPERINTENDENT.

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NOTE: EARTH PRESSURE SURCHARGE LOADS FROM BUILDING STRUCTURES MUST NOT BE IMPARTED ON RETAINING WALLS.



- ASSUMPTIONS:
- ROCK DENSITY MIN 2700kg/m³ WITH MAX 15% VOID RATIO.
 - SITE WON BACKFILL K_a = 0.45, SOIL UNIT WEIGHT 20kN/m³.
 - RETAINING WALL TO BE FOUNDED ON SUBGRADE COMPACTED TO ACHIEVE MIN 98% STANDARD AND ACHIEVE MIN 100KPa BEARING CAPACITY.
 - ASSUMED SURCHARGE LOADING OF 5KPa ON GROUND AT TOP OF WALL.

STONE SHALL BE CLEAN SOUND HARD BLUESTONE (OR APPROVED HARD STONE) COMPLYING TO SELECTED COLOUR. SHALL BE BUILT IN CONCRETE AS SPECIFIED.

ALL SPACES BETWEEN STONES BEING COMPLETELY FILLED WITH CONCRETE. EXPOSED FACE SHALL BE POINTED UP WITH MORTAR CONSISTING OF 1 PART CEMENT 5 PARTS SAND AND SHALL BE PROCESSED BELOW THE FACE OF THE WALL.

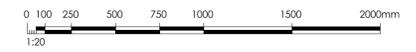
CONCRETE INFILL = F_c = 25 MPa
 CEMENT MORTAR = 1 PART CEMENT , 5 PART SAND

FRONT OF LOT MORTARED ROCK WALL - TYPICAL DETAIL
 SCALE NTS

- NOTES:
- ANY TRENCHES WITHIN 1.5m OF STONE RETAINING WALL TO BE BACKFILLED WITH INCOMPRESSIBLE MATERIAL, EG SAND, CRUSHED ROCK.
 - BASE FOUNDATION TO BE APPROVED BY ENGINEER BEFORE PROCEEDING FURTHER.
 - CROSSING SEWER SPUR BRANCHES TO BE CONSTRUCTED AS PER MRWA-S-209. 0.6m MINIMUM VERTICAL AND HORIZONTAL CLEARANCE REQUIRED TO RETAINING WALL FOOTINGS.

TABLE.01 - ROCKWORK - RETAINING WALL SCHEDULE - 5kPa SURCHARGE			
RETAINED HEIGHT (H)	SLANT OF FACE	TOP ROCK WIDTH	BASE ROCK WIDTH (B)
0mm - 1700mm	15 DEGREES	500mm (MIN)	0.6 x WALL HEIGHT (H)

- ASSUMPTIONS:
- ROCK DENSITY MIN 2700kg/m³ WITH MAX 15% VOID RATIO.
 - SITE WON BACKFILL K_a = 0.45, SOIL UNIT WEIGHT 20kN/m³.
 - RETAINING WALL TO BE FOUNDED ON SUBGRADE COMPACTED TO ACHIEVE MIN 98% STANDARD AND ACHIEVE MIN 100KPa BEARING CAPACITY.
 - ASSUMED SURCHARGE LOADING OF 5KPa ON WALL.



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Project: RIVER VALLEY - STAGE 7D1		Drawing Title: CONSTRUCTION DETAILS - RETAINING WALL (SHEET 4 OF 5)	
Client: YOURLAND		Revision: 09.12.22	
Project Number: 15006	Origin: CJA	Level: 7D1	Revision: 2
Issue Date: 09.12.22	Drawn By: TS	Checked By: VR	Drawn Scale: 1:20 @ A1
Issue For: CONSTRUCTION	File Type: DWG	Base: C	Number: 8021

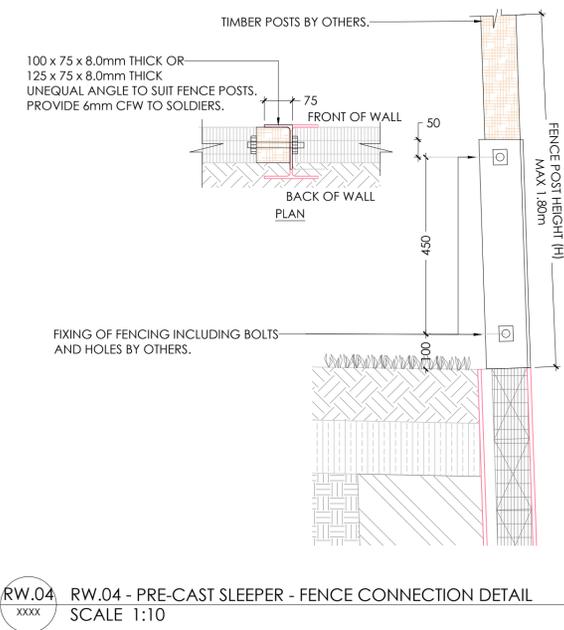
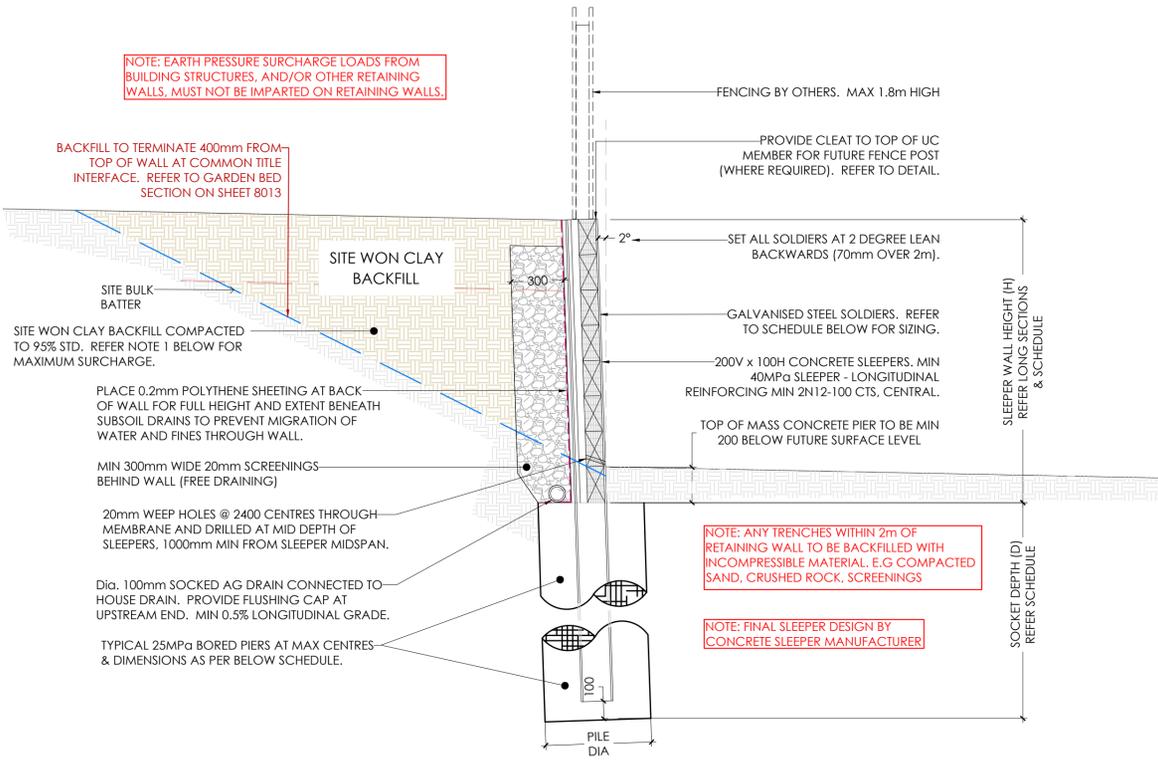
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Revision	Date	Reason	Drawn	Checked
2	05.07.23	ISSUED FOR CONSTRUCTION	TS	VR
1	28.04.23	ISSUED FOR CONSTRUCTION	TS	VR
0	09.12.22	ISSUED FOR CONSTRUCTION	TS	VR

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 2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
 3. All contractors must visit site and be responsible for finding and checking all dimensions related to the works shown on the drawing prior to fabrication or setting out.



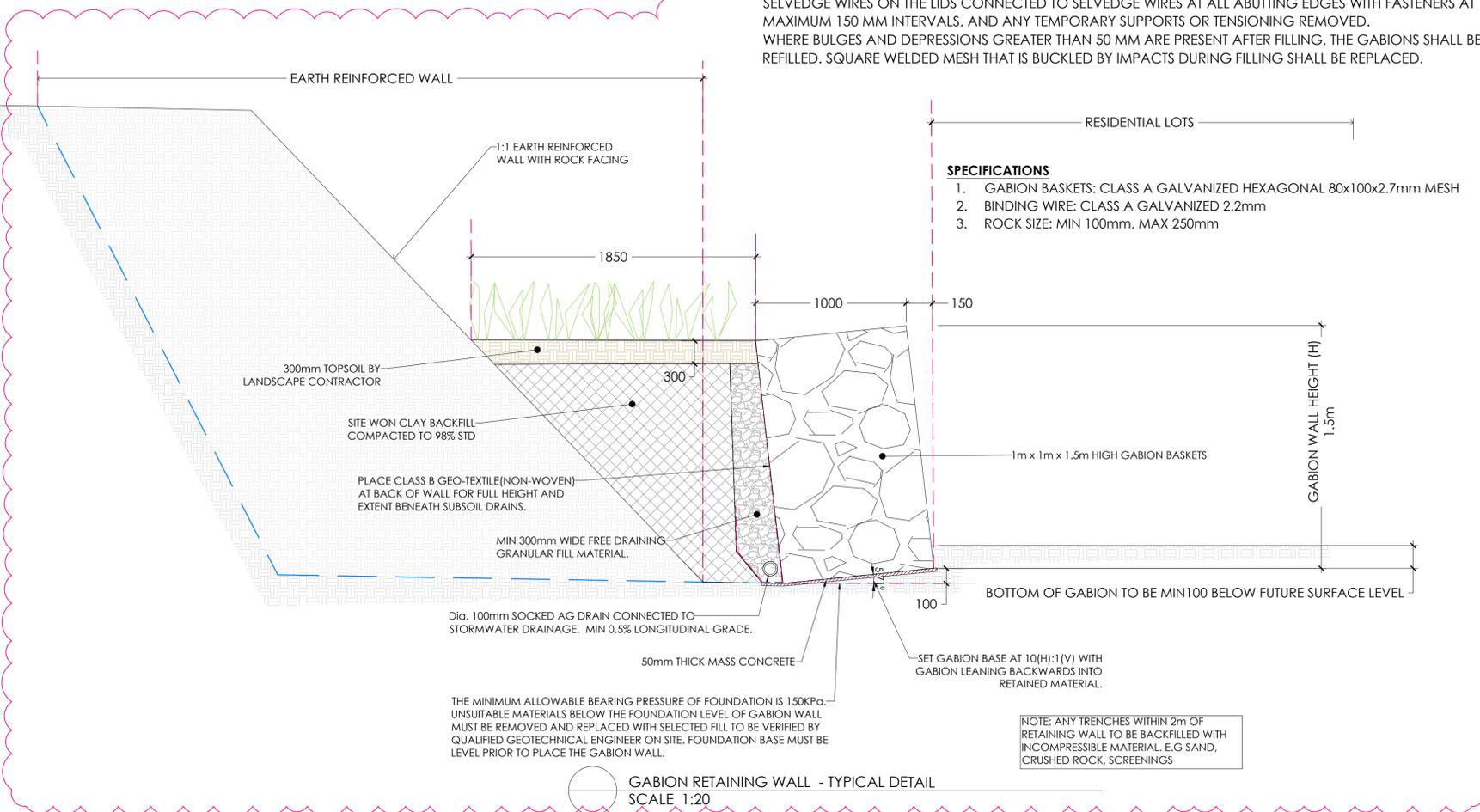
RW.04 RW.04 - PRE-CAST SLEEPER - FENCE CONNECTION DETAIL
SCALE 1:10

- NOTES:**
- DESIGN LOADS ARE:
 - 5kPa WHERE RETAINING LOTS/LANDSCAPING RESERVES
 - 10kPa WHERE RETAINING ROADS
 WHERE COMPACTION EQUIPMENT LOADS EXCEEDS THE ABOVE DESIGN LOADS, ALLOW TO TEMPORARILY PROP THE FACE OF THE WALL.
 - SOCKET DEPTH IS DEPTH INTO APPROVED NATURAL GROUND OR APPROVED SUPERVISED ENGINEERED FILL. TABULATED SOCKET DEPTHS ARE BASED ON THE GROUND ON THE HIGH SIDE OF THE WALL BEING HORIZONTAL. SHOULD THERE BE AN INCLINE BEHIND THE TOP OF WALL OF UP TO 1V:4H MAX: ADOPT THE DESIGN FOR HEIGHT (H) = 1.2 x ACTUAL WALL HEIGHT.
 - WHERE THE SOCKET DEPTH EXTENDS INTO APPROVED BASALT ROCK, SOCKET DEPTH SHALL BE THE LESSER OF THE DEPTH NOTED IN THE BELOW SCHEDULE AND MIN 1.2m INTO THE APPROVED HIGH STRENGTH BASALT PROFILE.
 - BORE HOLES FOR PIERS SHALL BE CLEAN OF LOOSE SOIL AND DEBRIS. DO NOT BORE HOLES WHEN RAIN IS EXPECTED.
 - ALL SLEEPERS ARE TO BE SLEEPER DIRECT RUSTIC WOODGRAIN SLEEPER - CHARCOAL.

RETAINED HEIGHT	H.D GALV. SOLDERS	MAX. SOLDER SPACING	PIER DIAMETER (PØ)	SOCKET DEPTH (D)
0mm - 600mm	150 UC 23	2400mm	600mm	1500mm
601mm - 900mm	150 UC 23	2400mm	600mm	1800mm
901mm - 1200mm	150 UC 23	2400mm	600mm	2100mm
1201mm - 1500mm	150 UC 23	2400mm	600mm	2400mm
1501mm - 1800mm	150 UC 23	2400mm	600mm	2800mm
1801mm - 2100mm	150 UC 23	1800mm	600mm	2800mm
2101mm - 2400mm	150 UC 30	1800mm	600mm	3100mm
2401mm - 2700mm	150 UC 37	1800mm	600mm	3500mm
2701mm - 3000mm	200 UC 46	1800mm	600mm	3800mm
3001mm - 3300mm	200 UC 52	1800mm	600mm	4100mm

RETAINED HEIGHT	H.D GALV. SOLDERS	MAX. SOLDER SPACING	PIER DIAMETER (PØ)	SOCKET DEPTH (D)
0mm - 600mm	150 UC 23	1800mm	600mm	1500mm
601mm - 900mm	150 UC 23	1800mm	600mm	1800mm
901mm - 1200mm	150 UC 23	1800mm	600mm	2100mm
1201mm - 1500mm	150 UC 23	1800mm	600mm	2400mm
1501mm - 1800mm	150 UC 23	1200mm	600mm	2400mm
1801mm - 2100mm	150 UC 23	1200mm	600mm	2700mm
2101mm - 2400mm	150 UC 30	1200mm	600mm	3000mm
2401mm - 2700mm	150 UC 37	1200mm	600mm	3300mm
2701mm - 3000mm	200 UC 46	1200mm	600mm	3500mm
3001mm - 3300mm	200 UC 52	1200mm	600mm	3800mm

- GABION WALL NOTES**
- HEXAGONAL MESH WIRE NETTING SHALL HAVE THE FOLLOWING PROPERTIES:
 - WIRE AND SELVEDGE WIRE SHALL HAVE A MINIMUM TENSILE STRENGTH OF 380 MPa AND A MINIMUM DIAMETER OF 2.7mm AND 3.4mm RESPECTIVELY
 - WIRE AND SELVEDGE WIRE SHALL BE COATED WITH A MINIMUM OF 240g/m² ZINC/5% ALUMINIUM ALLOY AND A MINIMUM 0.5mm OF GREY COLOURED EXTRUDED PVC, PRIOR TO NETTING MANUFACTURE.
 - NETTING SHALL BE MANUFACTURED BY WINDING TWO WIRES AROUND EACH OTHER THROUGH THREE 180DEG ROTATIONS TO FORM A TIGHT, HELICAL TWIST WITH A NOMINAL MESH SIZE OF 80mm x 100mm.
 - GABION FILL MATERIAL
 - ROCK SIZE: MIN 100mm, MAX 250mm
 - GABION FILL MATERIAL SHALL CONSIST OF ROCK WITH NOT LESS THAN TWO BROKEN OR ANGULAR FACES. THE ROCK SHALL BE RESISTANT TO WEATHERING ACTION OF AIR, WIND AND WATER AND SHALL BE FREE FROM STAINING, LAMINATIONS, CRACKS AND OTHER STRUCTURAL DEFECTS WHICH MAY REDUCE ITS MECHANICAL STRENGTH.
 - THE ROCK SHALL HAVE A MINIMUM APPARENT PARTICLE DENSITY OF 2.5 t/m³ WHEN TESTED IN ACCORDANCE WITH AS 1141.6.1. IN ADDITION, THE ROCK SHALL HAVE A MINIMUM WET STRENGTH OF 100 KN AND A WET/DRY STRENGTH VARIATION NOT EXCEEDING 35% WHEN TESTED IN ACCORDANCE WITH AS 1141.22.
 - GABION ASSEMBLY, INSTALLATION AND FILLING
 - FOUNDATION PREPARATION: AREAS UPON WHICH GABIONS ARE TO BE INSTALLED SHALL BE PREPARED AND TEST ROLLED AS SPECIFIED. ANY UNSTABLE AREAS DETECTED BY TEST ROLLING SHALL BE RECTIFIED AS SPECIFIED. THE PREPARED SURFACE SHALL HAVE A SLOPE OF 10(H):1(V).
 - ASSEMBLY: GABIONS SHALL BE LAID OUT ON A HARD, FLAT SURFACE AND STRETCHED TO REMOVE ALL KINKS AND BENDS. INDIVIDUAL GABIONS SHALL BE ASSEMBLED BY RAISING THE SIDES AND PARTITIONS AND CONNECTING SELVEDGE WIRES AT ALL ABUTTING EDGES WITH FASTENERS AT MAXIMUM 150 MM INTERVALS. GABIONS MAY BE CUT INTO TWO SEGMENTS AND SPLICED BY A MINIMUM LENGTH OF 200 MM TO FORM NONSTANDARD DIMENSIONS. FASTENERS SHALL BE INSTALLED AT BOTH EDGES OF THE SPLICE AT MAXIMUM 150 MM HORIZONTAL AND VERTICAL INTERVALS.
 - INSTALLATION: GABIONS SHALL BE INSTALLED IN THE POSITIONS SHOWN ON THE DRAWINGS AND EACH GABION SHALL BE CONNECTED TO ALL ADJACENT GABIONS BY CONNECTING ALL ABUTTING EDGES WITH FASTENERS AT MAXIMUM 150 MM INTERVALS. TEMPORARY SUPPORTS, PERMANENT SUPPORTS CONSISTING OF GALVANIZED STAR PICKETS OR GALVANIZED STEEL STRUCTURAL SECTIONS, OR TENSIONING SHALL BE USED AS REQUIRED TO ENSURE THE SIDES OF THE INSTALLED GABIONS DO NOT VARY BY MORE THAN 50 MM FROM A 3 METRE STRAIGHT EDGE LAID ACROSS THE SURFACE PRIOR TO, DURING AND AFTER FILLING WITH GABION FILL MATERIAL
 - FILLING: GABIONS SHALL BE FILLED WITH GABION FILL MATERIAL BY MECHANICAL MEANS AIDED BY HAND SORTING TO ENSURE THAT EXPOSED SURFACES ARE FREE FROM EXCESSIVE BULGES AND DEPRESSIONS. GABIONS SHALL BE ONE THIRD FILLED AND BRACES INSTALLED AT EVENLY DISTRIBUTED NOMINAL 330 MM HORIZONTAL CENTRES. GABIONS SHALL THEN BE TWO THIRDS FILLED AND ADDITIONAL BRACES INSTALLED AT EVENLY DISTRIBUTED NOMINAL 330 MM HORIZONTAL CENTRES. GABIONS SHALL THEN BE FULLY FILLED. THE SELVEDGE WIRES ON THE LIDS CONNECTED TO SELVEDGE WIRES AT ALL ABUTTING EDGES WITH FASTENERS AT MAXIMUM 150 MM INTERVALS, AND ANY TEMPORARY SUPPORTS OR TENSIONING REMOVED. WHERE BULGES AND DEPRESSIONS GREATER THAN 50 MM ARE PRESENT AFTER FILLING, THE GABIONS SHALL BE REFILLED. SQUARE WELDED MESH THAT IS BUCKLED BY IMPACTS DURING FILLING SHALL BE REPLACED.



GABION RETAINING WALL - TYPICAL DETAIL
SCALE 1:20

- SPECIFICATIONS**
- GABION BASKETS: CLASS A GALVANIZED HEXAGONAL 80x100x2.7mm MESH
 - BINDING WIRE: CLASS A GALVANIZED 2.2mm
 - ROCK SIZE: MIN 100mm, MAX 250mm

Revised	Date	Reason	Drawn	Checked
1	05.07.23	ISSUED FOR CONSTRUCTION	TS	VR
0	09.12.22	ISSUED FOR CONSTRUCTION	TS	VR

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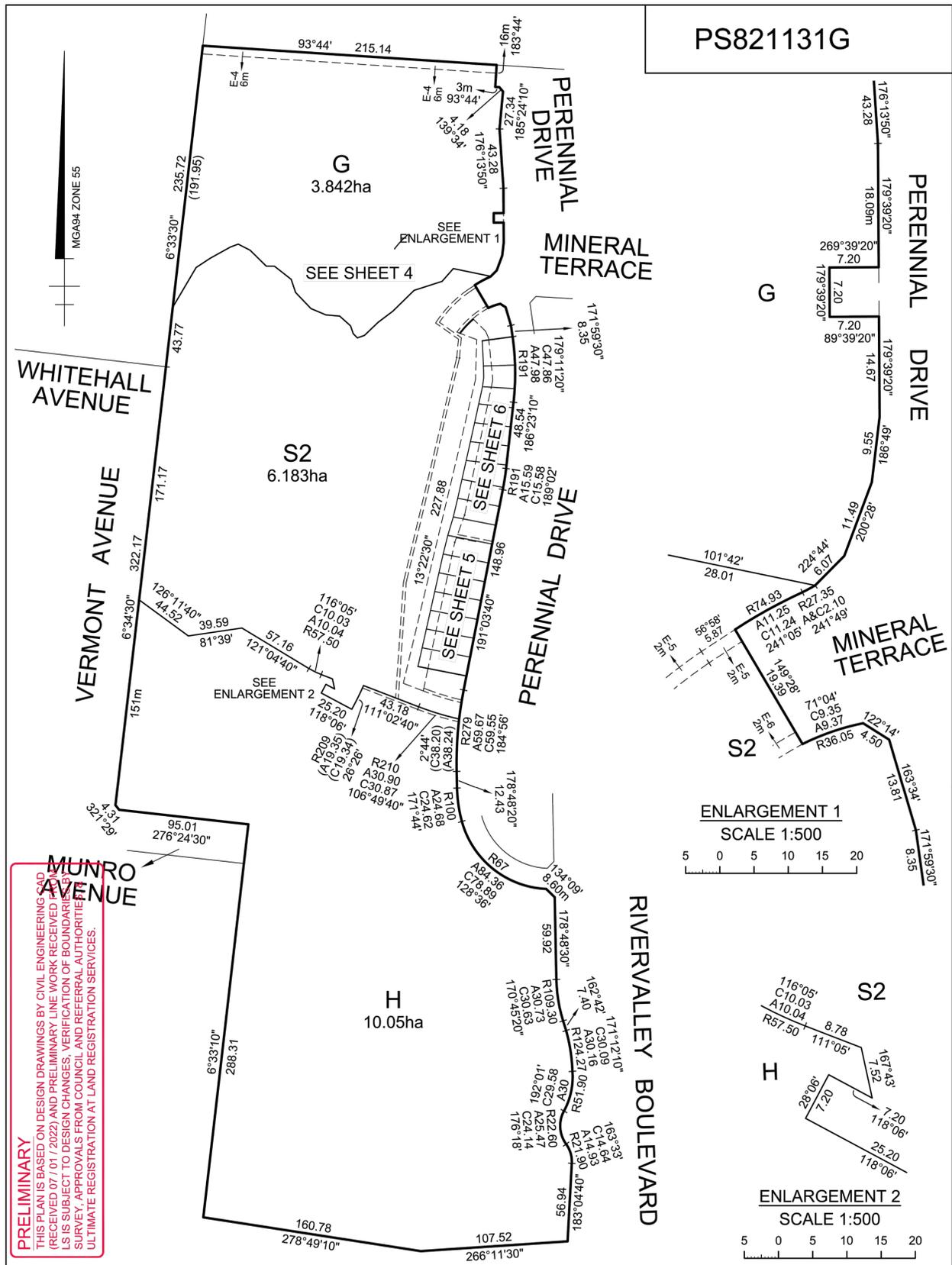
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Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued for Construction

Drawn By: TS | Checked By: VR | Drawn Scale: AS SHOWN @ A1 | Date of Issue: 09.12.22

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15006	CJA	7D1	00	DWG	C	8022	1

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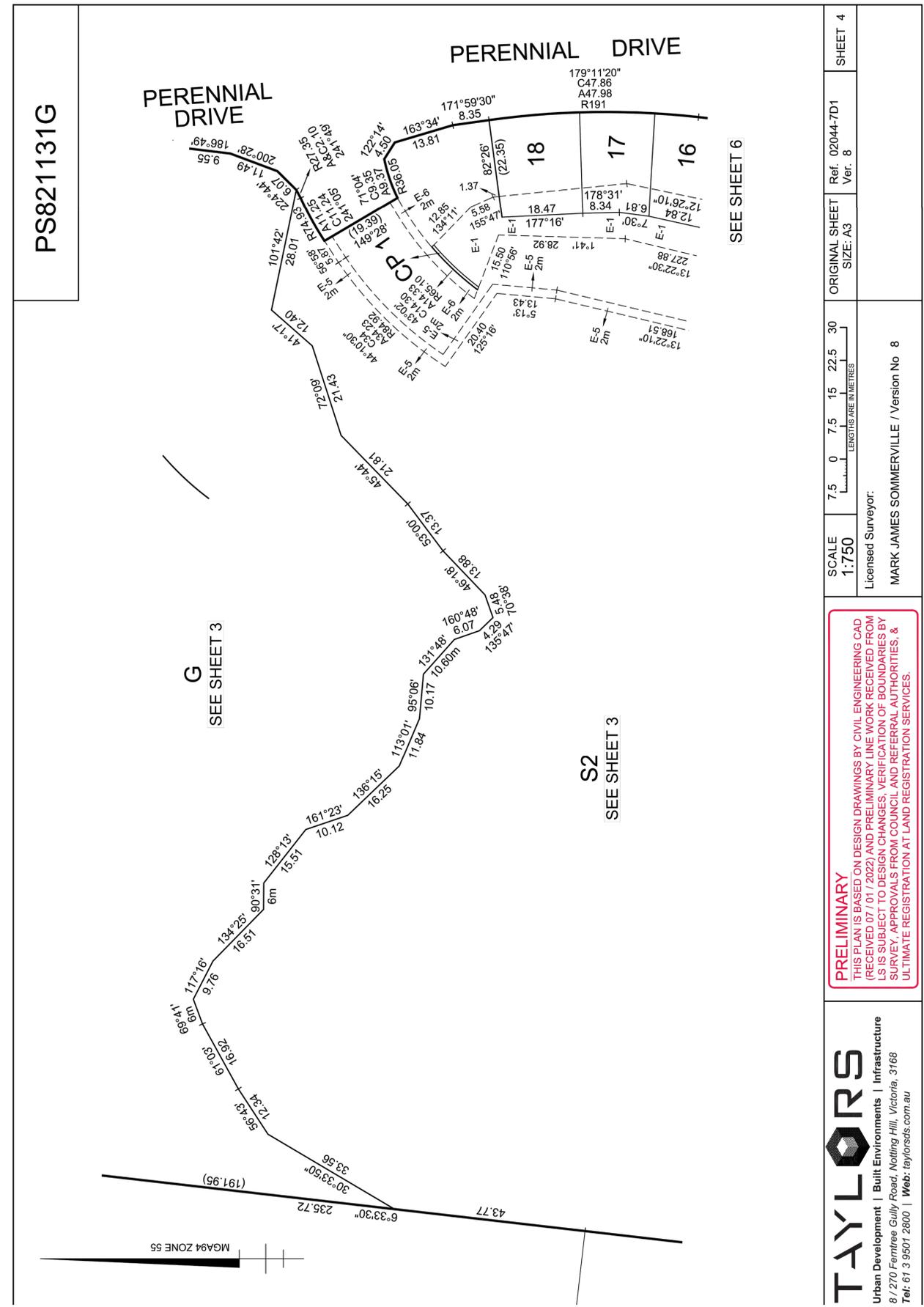
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ORIGINAL SHEET SIZE: A3 Ref. 02044-7D1 Ver. 8 SHEET 3

Licensed Surveyor:
 MARK JAMES SOMMERVILLE / Version No 8

ENLARGEMENT 1
 SCALE 1:500
 5 0 5 10 15 20

ENLARGEMENT 2
 SCALE 1:500
 5 0 5 10 15 20



SCALE 1:750
 7.5 0 7.5 15 22.5 30
 LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE: A3 Ref. 02044-7D1 Ver. 8 SHEET 4

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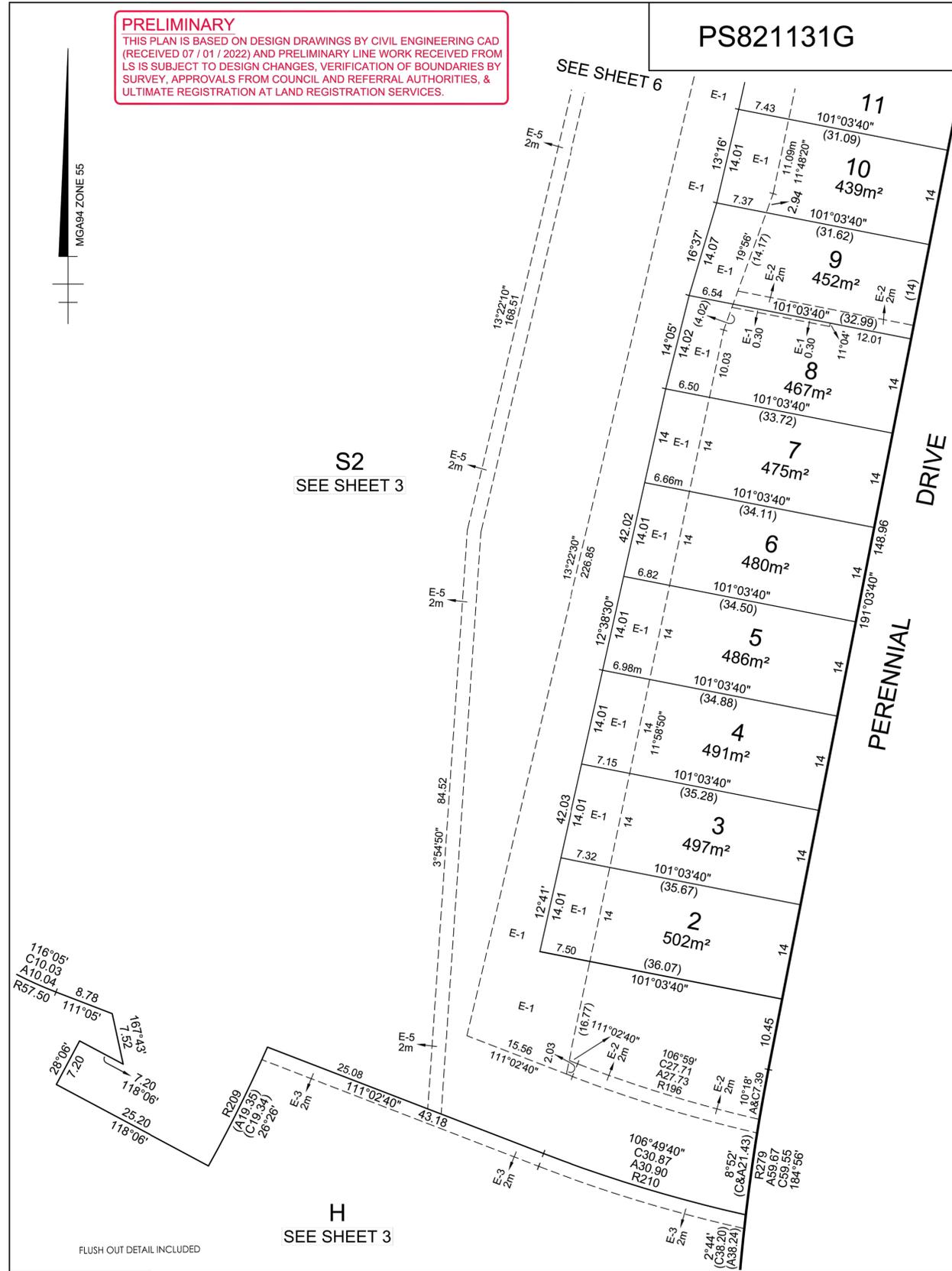
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Project: RIVER VALLEY - STAGE 7D1
 Client: YOURLAND
 Issued for Construction

Project Number: 15006 | Origin: CJA | Zone: 00 | Level: 00 | File Type: DWG | Revision: 0201 | Date of First Issue: 09/12/22

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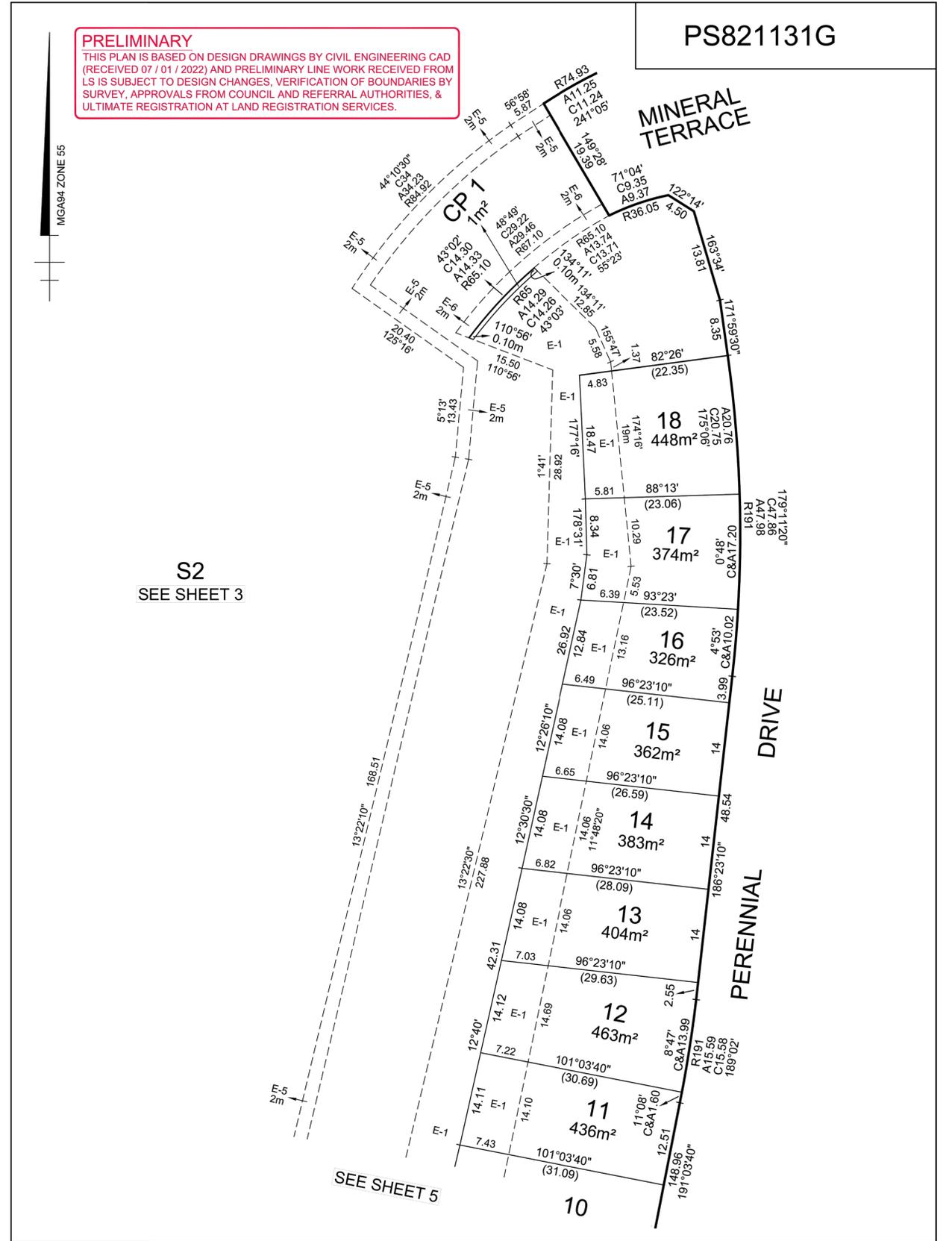
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SCALE 1:500
 LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE: A3 Ref. 02044-7D1 Ver. 8 SHEET 5

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SCALE 1:500
 LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE: A3 Ref. 02044-7D1 Ver. 8 SHEET 6

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Project: RIVER VALLEY - STAGE 7D1		Drawing Title: SUB-DIVISION PLANS (SHEET 3 OF 4)	
Client: YOURLAND		Issued for Construction	
Drawn By: IS	Checked By: VE	Drawn Scale: N/A B A1	Date of First Issue: 09.12.22
Project Number: 15006	Origin: CJA	Zone: 00	Level: 00
File Name: DWG	Rev: C	Number: 9202	Revision: 0

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PS821131G

CREATION OF RESTRICTION A

The registered proprietors of the burdened land covenant with the registered proprietors of the benefited land as set out in the restriction with the intent that the burden of the restriction runs with and binds the burdened land and the benefit of the restriction is annexed to and runs with the benefited land.

BURDENED LAND: See Table 1
 BENEFITED LAND: See Table 1

RESTRICTION:

1. The burdened land cannot be used except in accordance with the provisions recorded in MCP
2. The registered proprietor or proprietors for the time being of any burdened lot to which this restriction applies must not at any time on the said lot or any part or parts thereof build or cause to be built or allow to remain a dwelling or any other improvements, or carry out or cause to be carried out or allow to be carried out, any building or construction works on the lot unless:
 - a. Copies of site plans, floor plans, elevations, landscape plans, and schedule of materials and colours selections with samples (together the "Plans") have been submitted to the River Valley Design Assessment Panel at River Valley Estate Pty Ltd 21 Balmain Street Richmond VIC 3121, or such other entity as may be nominated by the Vendor from time to time for approval (such approval which may be withheld or provided with conditions in the River Valley Design Assessment Panel's absolute discretion);
 - b. The Plans comply with the River Valley Design Guidelines; and
 - c. The River Valley Design Assessment Panel or such other entity as may be nominated by the Vendor from time to time has given its written approval to the Plans prior to the commencement of works.

Expiry date: 31/12/2032

CREATION OF RESTRICTION B

The registered proprietors of the burdened land covenant with the registered proprietors of the benefited land as set out in the restriction with the intent that the burden of the restriction runs with and binds the burdened land and the benefit of the restriction is annexed to and runs with the benefited land.

BURDENED LAND: See Table 1
 BENEFITED LAND: See Table 1

RESTRICTION:

The registered proprietor or proprietors for the time being of any burdened lot on this plan must not construct or allow to be constructed or remain on the lot any building or garage outside the building envelope shown hatched in the diagrams shown on MCP (excluding allowable projecting building elements that project outside the building envelope as contained in Part 5 Regulation 74(3), 79(3) & 79(4) of the Building Regulations 2018).

TABLE 1

BURDENED LOT No.	BENEFITING LOTS ON THIS PLAN
2	3
3	2, 4
4	3, 5
5	4, 6
6	5, 7
7	6, 8
8	7, 9
9	8, 10
10	9, 11

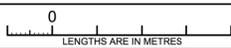
TABLE 1 continued

BURDENED LOT No.	BENEFITING LOTS ON THIS PLAN
11	10, 12
12	11, 13
13	12, 14
14	13, 15
15	14, 16
16	15, 17
17	16, 18
18	17

PRELIMINARY
 THIS PLAN IS BASED ON DESIGN DRAWINGS BY CIVIL ENGINEERING CAD (RECEIVED 07 / 01 / 2022) AND PRELIMINARY LINE WORK RECEIVED FROM LS IS SUBJECT TO DESIGN CHANGES, VERIFICATION OF BOUNDARIES BY SURVEY, APPROVALS FROM COUNCIL AND REFERRAL AUTHORITIES, & ULTIMATE REGISTRATION AT LAND REGISTRATION SERVICES.



FLUSH OUT DETAIL INC. **TAYLORS**
 Urban Development | Built Environments | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2800 | Web: taylorstds.com.au

SCALE		ORIGINAL SHEET SIZE: A3	Ref. 02044-7D1 Ver. 8	SHEET 7
Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 8				

PS821131G

CREATION OF RESTRICTION C

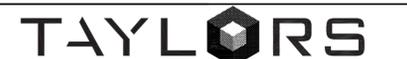
The registered proprietors of the burdened land covenant with the registered proprietors of the benefited land as set out in the restriction with the intent that the burden of the restriction runs with and binds the burdened land and the benefit of the restriction is annexed to and runs with the benefited land.

BURDENED LAND: Lot 2 to 18 (both inclusive)
 BENEFITED LAND: Lot 2 to 18 (both inclusive)

RESTRICTION:

The registered proprietor or proprietors for the time being of any burdened lot on this plan must not undertake or permit to undertake, any excavation, construction of buildings or works, tree planting, landscaping or any other physical alterations to the structure of the rock down slope within that part of the burdened lot marked E-1, without prior written consent from Owners' Corporation PS821131G.

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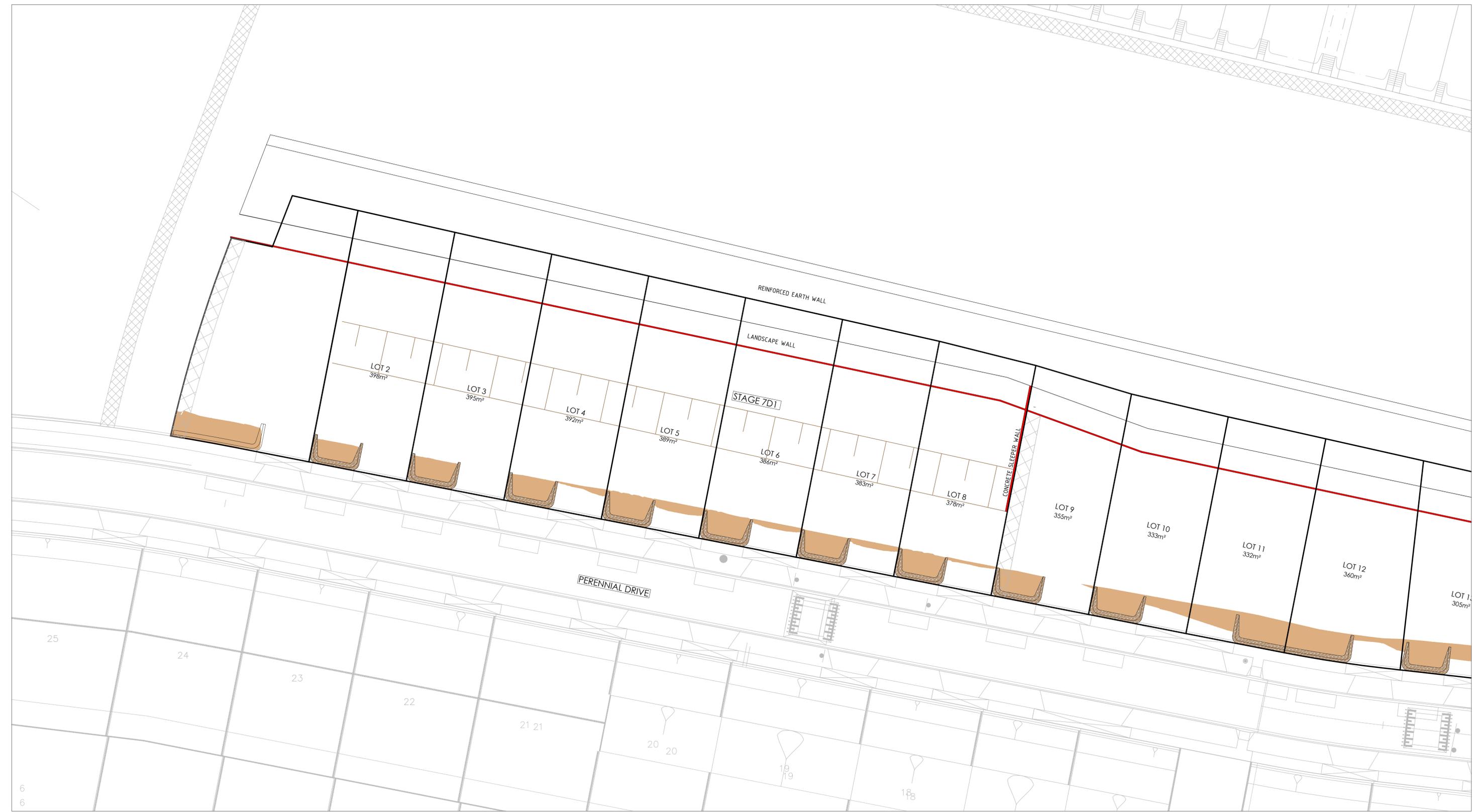
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NOTE:
 THE INFORMATION CONTAINED ON THIS PLAN IS A REPRESENTATION OF THE DESIGN PREPARED BY TAYLORS. REFER TO:
 - TAYLORS PLAN OF SUB-DIVISION # PS921131G REF: 02044-7D1
 ANY DISCREPANCIES BETWEEN THE DESIGN DRAWINGS AND THE TAYLORS PLAN OF SUB-DIVISION SHALL BE REFERRED TO THE SUPERINTENDENT.

ISSUED FOR CONSTRUCTION

- Note for Contractors**
 The works described on this drawing must be undertaken by competent Contractors with an appropriate level of experience who have prepared appropriate Safe Work Method Statements (SWMS) relating to these works. The contractor is responsible for the management of all risks associated with the construction activities stated on this drawing.
- This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.
- Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
- BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.



LEGEND	
	FILL (+300mm)
	RETAINING WALL (CONCRETE SLEEPER)
	RETAINING WALL (ROCKWORK)

DRAWING NOTES:

- THIS PLAN DETAILS AREAS IN WHICH 300mm OR GREATER OF FILL WILL BE PLACED ON TOP OF THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION AS A RESULT OF THE PROPOSED WORKS.
- THIS PLAN DOES NOT DETAIL ANY OTHER FILL MATERIAL THAT MAY HAVE BEEN PLACED WITHIN THE SUBDIVISION PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.
- IRRESPECTIVE OF THE DEPTH OF FILL DETAILED ON THIS PLAN, FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS AND WILL TAKE INTO ACCOUNT THE SOIL CLASSIFICATION AND SOIL REPORT PREPARED FOR EACH INDIVIDUAL LOT.
- THE EXTENT AND DEPTH OF FILL SHOWN ON THIS PLAN WILL BE CONFIRMED ON-SITE BY A GEOTECHNICAL INVESTIGATION BY A REGISTERED AND EXPERIENCED GEOTECHNICAL ENGINEER

Revision	Date	Reason	Drawn	Checked
0	09.12.22	ISSUED FOR CONSTRUCTION	TS	VE

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Dial before you dig. BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

ISSUED FOR CONSTRUCTION



Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued for Construction

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15006	CJA	7D1	00	DWG	C	9900	0

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ISSUED FOR CONSTRUCTION



CIVIL SITWORKS
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Project: RIVER VALLEY - STAGE 7D1
Client: YOURLAND
Issued for Construction

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15006	CJA	7D1	00	DWG	C	9901	0

Drawn By: TS, Checked By: VE, Drawn Scale: 1:250 @ A1, Date of first issue: 09.12.22