RESIDENTIAL AND SUBDIVISION DEVELOPMENT 205-209 GRANGE AVENUE, MARSDEN PARK CIVIL WORKS CONCEPT DESIGN



		DRAWINGS LIST	
SHEET No.	DWG No.	TITLE	RE
1	C100	COVER SHEET	E
2	C110	SITE PLAN	E
3	C201	CIVIL WORKS - ROAD DESIGN - GENERAL ARRANGEMENT PLAN - SHEET 1 OF 4	E
4	C202	CIVIL WORKS - ROAD DESIGN - GENERAL ARRANGEMENT PLAN - SHEET 2 OF 4	E
5	C203	CIVIL WORKS - ROAD DESIGN - GENERAL ARRANGEMENT PLAN - SHEET 3 OF 4	E
6	C204	CIVIL WORKS - ROAD DESIGN - GENERAL ARRANGEMENT PLAN - SHEET 4 OF 4	E
7	C231	CIVIL WORKS – ROAD DESIGN – BULK EARTHWORKS PLAN	E
8	C301	CIVIL WORKS - ROAD DESIGN - LONGITUDINAL SECTIONS - SHEET 1 OF 2	E
9	C302	CIVIL WORKS - ROAD DESIGN - LONGITUDINAL SECTIONS - SHEET 2 OF 2	E
10	C351	CIVIL WORKS - ROAD DESIGN - TYPICAL ROAD CROSS SECTIONS	E
11	C501	CIVIL WORKS ROAD DESIGN - DETAILS SHEET - SHEET 1 OF 3	E
12	C502	CIVIL WORKS ROAD DESIGN - DETAILS SHEET - SHEET 2 OF 3	E
13	C503	CIVIL WORKS ROAD DESIGN - DETAILS SHEET - SHEET 3 OF 3	E
14	C601	CIVIL WORKS - ROAD DESIGN - DRAINAGE LONGSECTION - SHEET 1 OF 2	E
15	C602	CIVIL WORKS - ROAD DESIGN - DRAINAGE LONGSECTION - SHEET 2 OF 2	E
16	C603	CIVIL WORKS - ROAD DESIGN - DRAINAGE CATCHMENT PLAN - SHEET 1 OF 3	E
17	C604	CIVIL WORKS - ROAD DESIGN - DRAINAGE CATCHMENT PLAN - SHEET 2 OF 3	E
18	C605	CIVIL WORKS - ROAD DESIGN - DRAINAGE CATCHMENT PLAN - SHEET 3 OF 3	E
19	C701	EROSION AND SEDIMENT CONTROL - PLAN	E
20	C702	EROSION AND SEDIMENT CONTROL - DETAILS	E
21	C901	CIVIL WORKS - ROAD DESIGN - SWEPT PATH ANALYSIS	Е

LOCALITY PLAN NOT TO SCALE COPYRIGHT OF SIX MAPS



PREPARED BY:

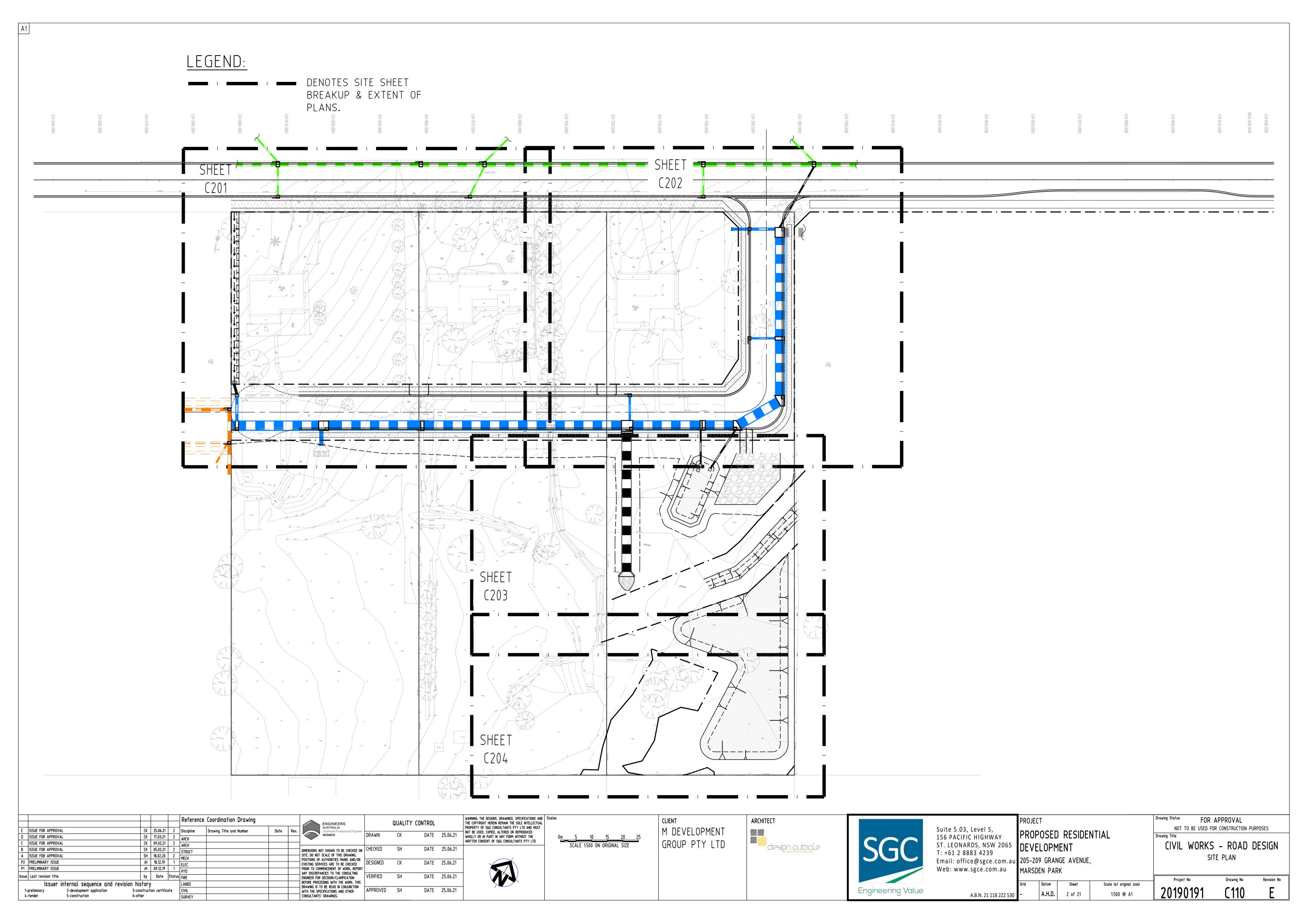
SGC Consulting Engineers Suite 5.03, Level 5 156 Pacific Highway St. Leonards, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au

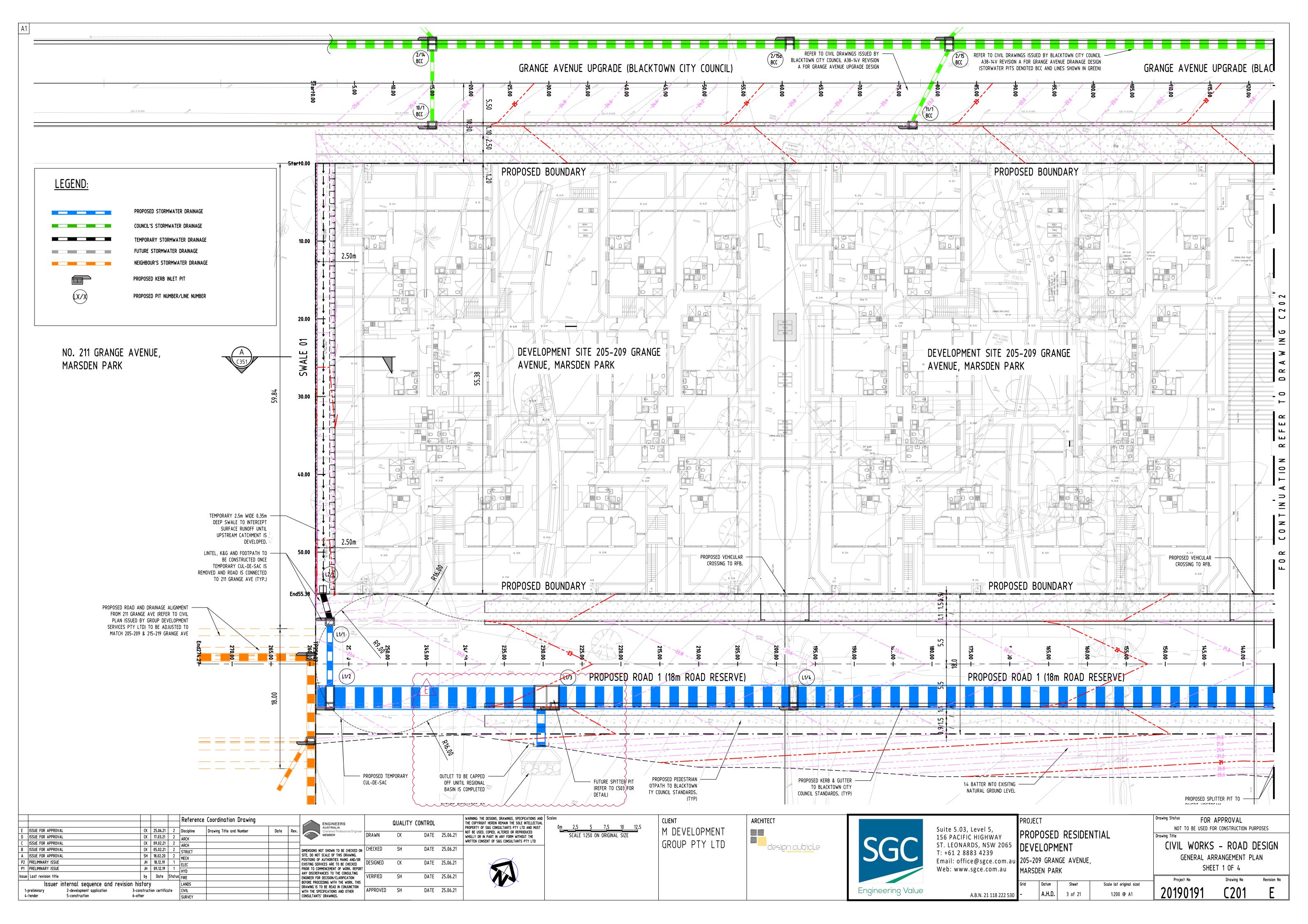
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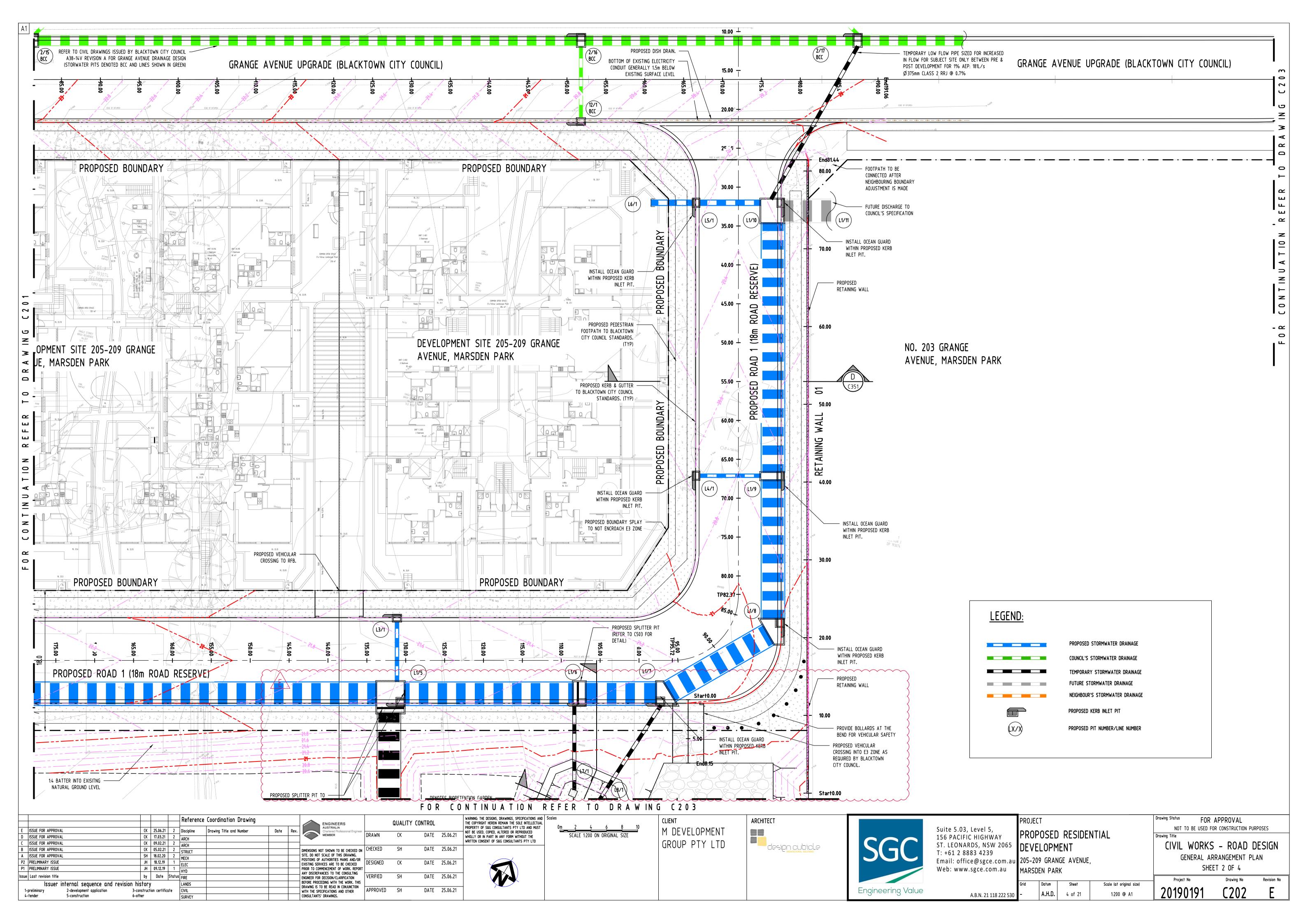


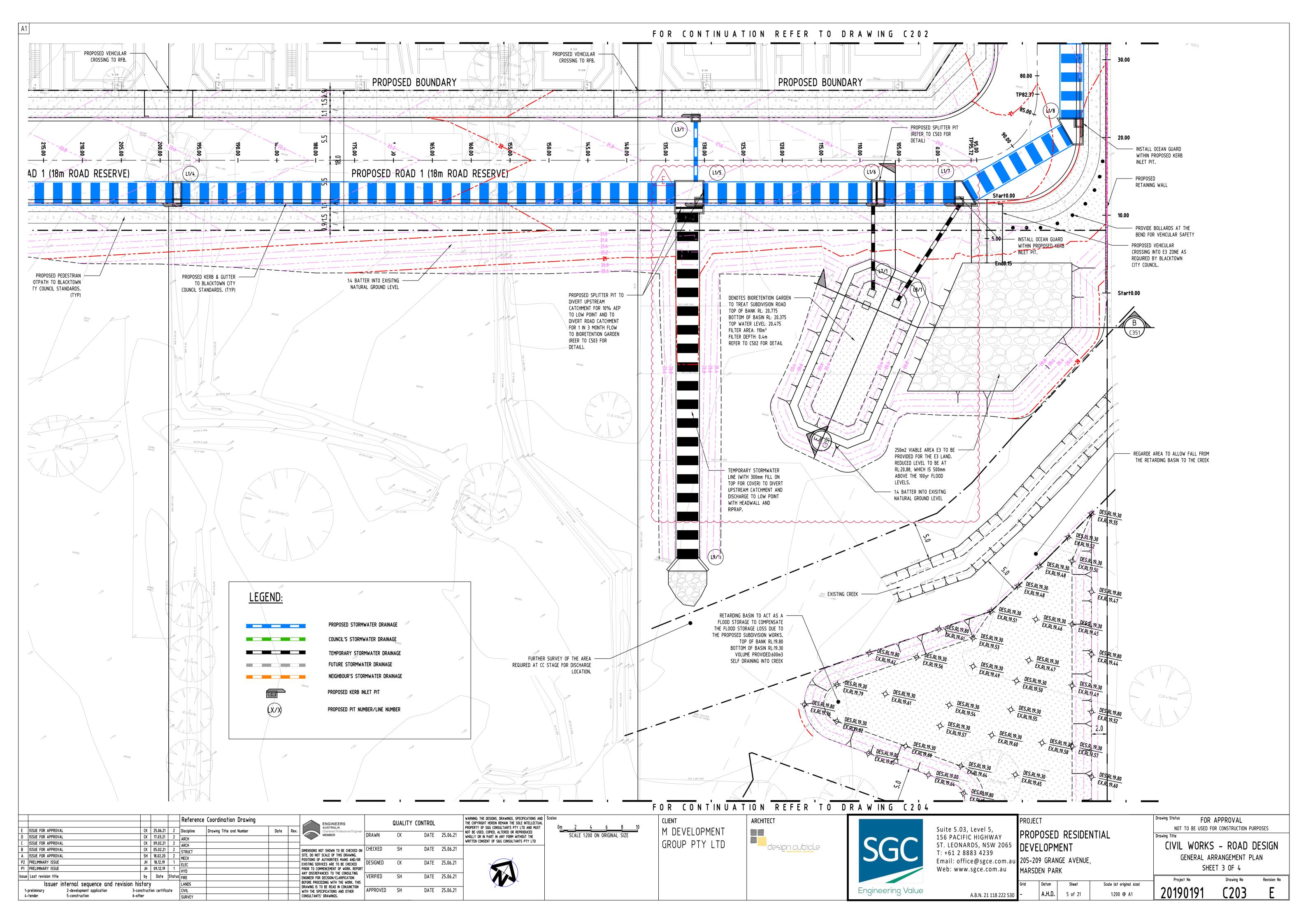
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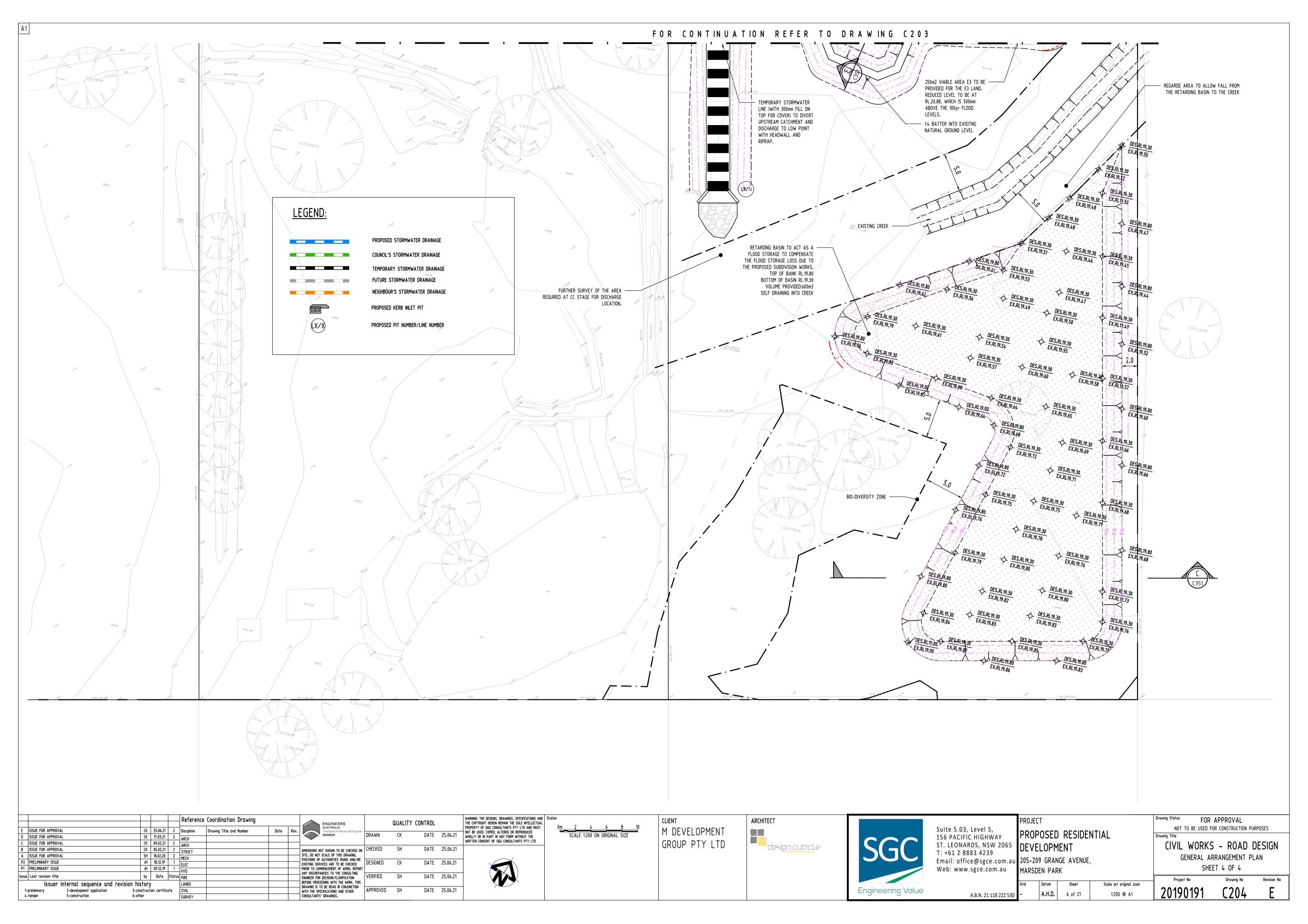
M DEVELOPMENT GROUP PTY LTD

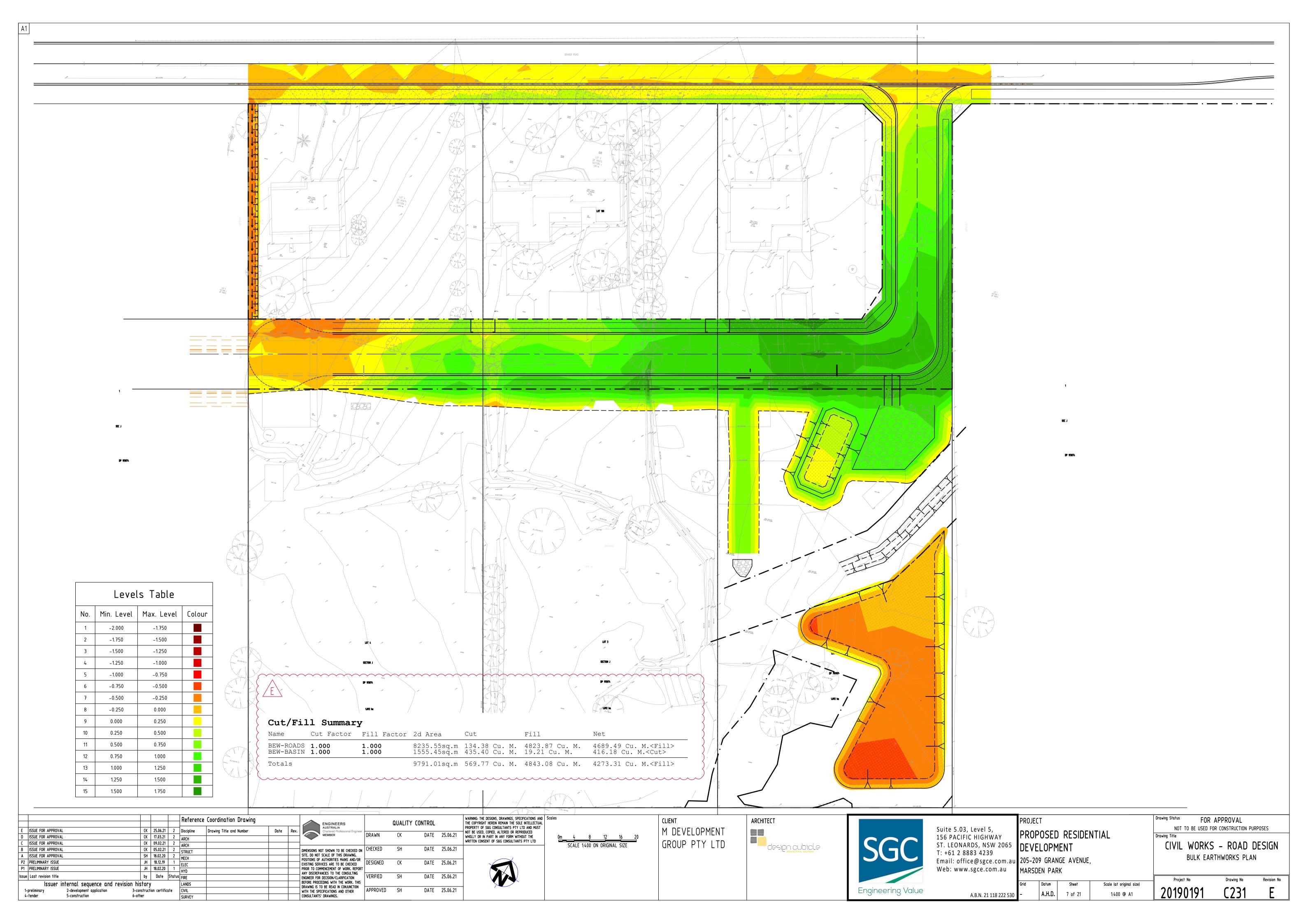


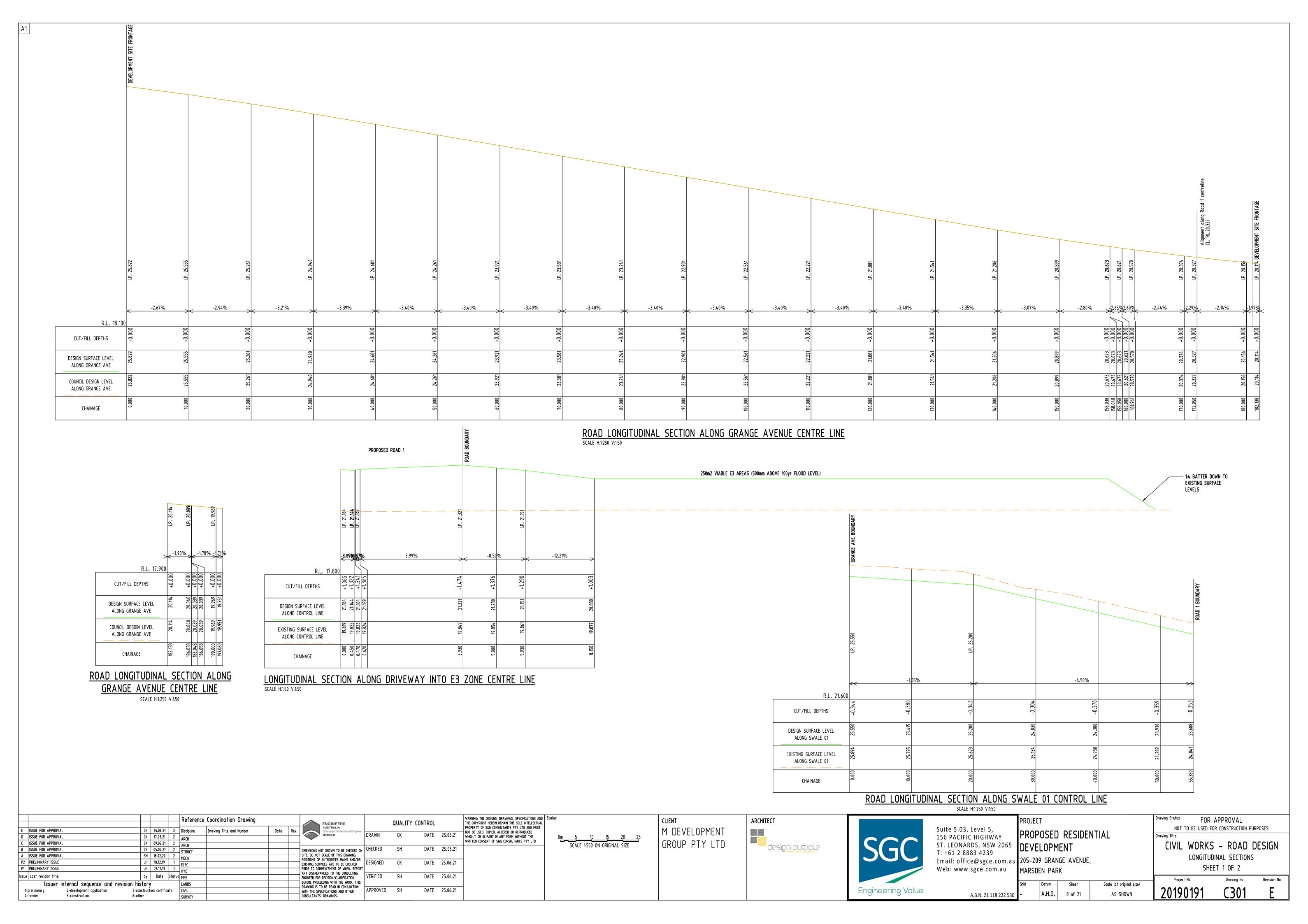


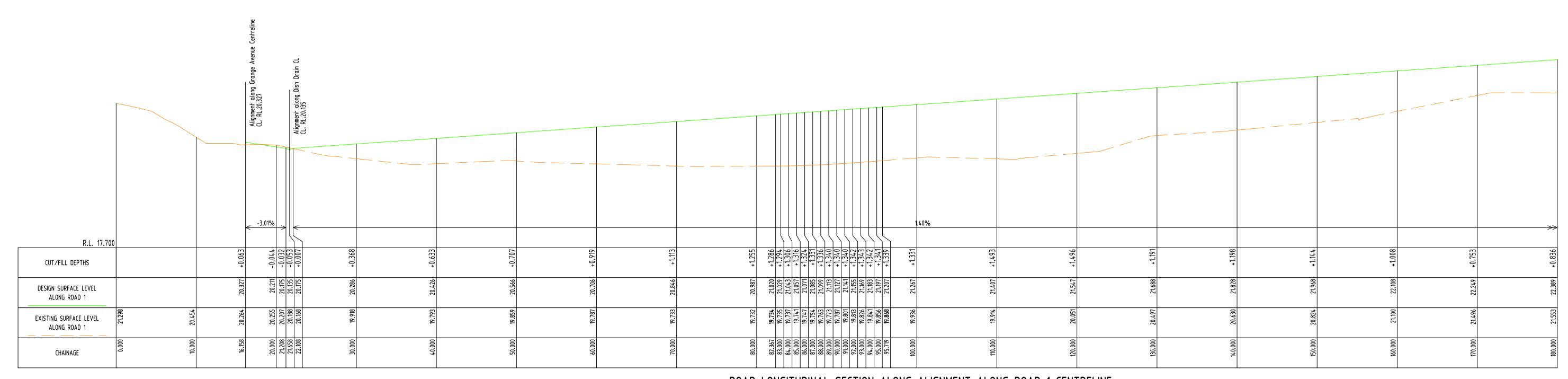


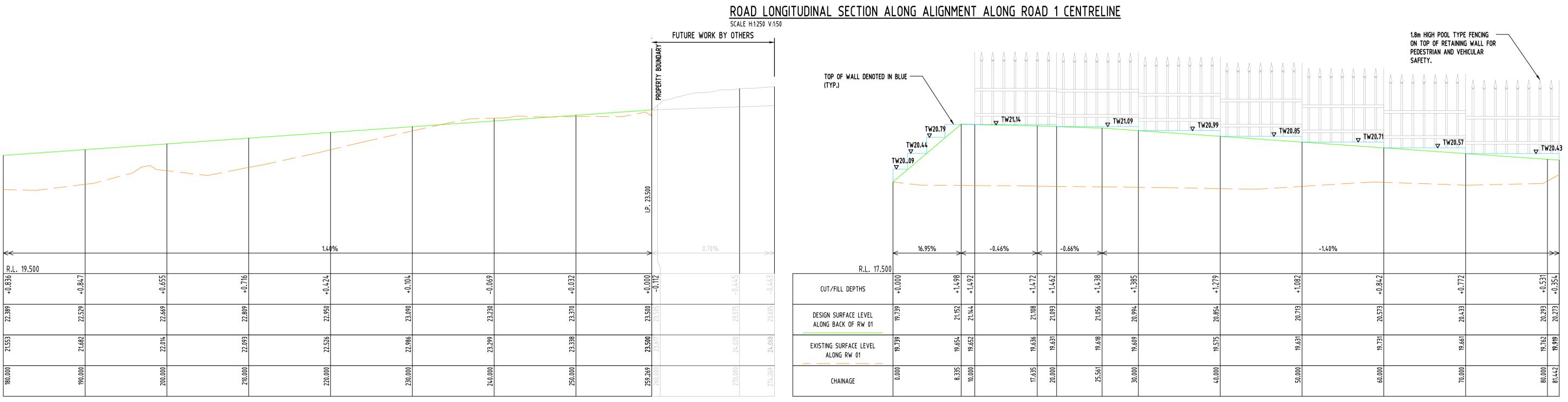








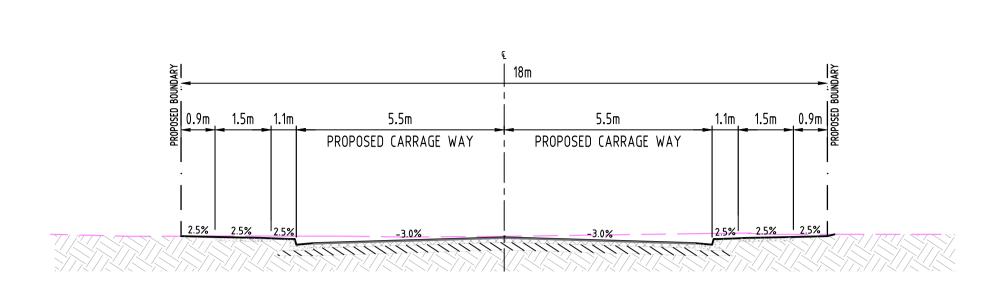




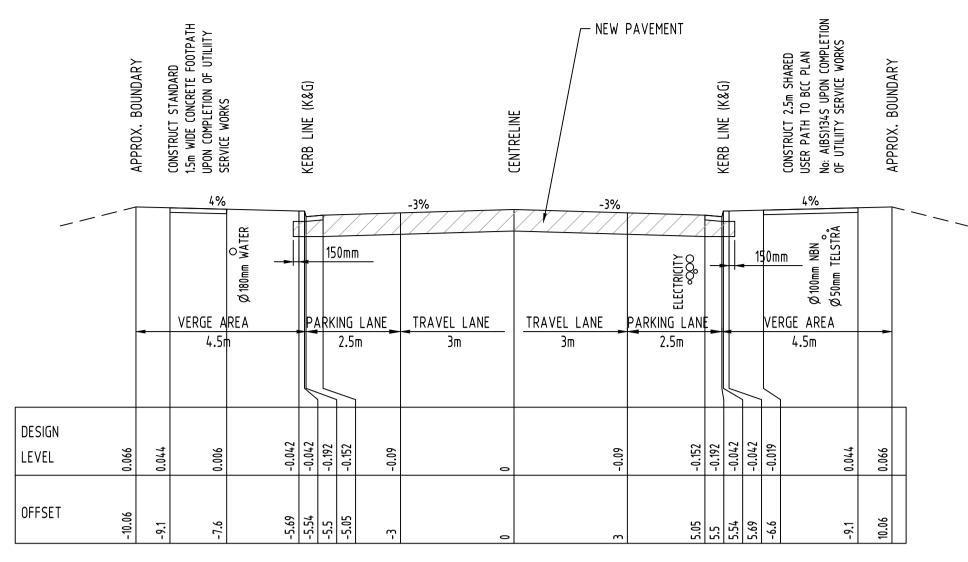
ROAD LONGITUDINAL SECTION ALONG ALIGNMENT ALONG ROAD 1 CENTRELINE
SCALE H:1:250 V:1:50

ROAD LONGITUDINAL SECTION ALONG ALIGNMENT ALONG RW 01 CONTROL LINE SCALE H:1:250 V:1:50

D ISSUE FOR APPROVAL CK 17.03.21 2 ARCH CK 09.02.21 2 ARCH ARCH STRUCT STRUCT CK DF PRELIMINARY ISSUE JH 18.12.19 1 ELEC HYD CK CK DF DF CK DF DF CK DF DF DF DF DF DF DF D	Rev. Rev. Chartered Professional Engineer DRAWN CK DATE 25.06.21	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD SCALE 1:500 ON ORIGINAL SIZE	CLIENT M DEVELOPMENT GROUP PTY LTD	ARCHITECT		Suita E 02 Laval E	205-209 GRANGE AVENUE,	Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES Drawing Title CIVIL WORKS - ROAD DESIGN LONGITUDINAL SECTIONS SHEET 2 OF 2
Issue Last revision title by Date Status FIRE Issuer internal sequence and revision history 1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other SURVEY	ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS. VERIFIED SH DATE 25.06.21 APPROVED SH DATE 25.06.21				Engineering Value	A.B.N. 21 118 222 530	Grid Datum Sheet Scale (at original size) - A.H.D. 9 of 21 AS SHOWN	Project No Drawing No Revision No 20190191 C302 E

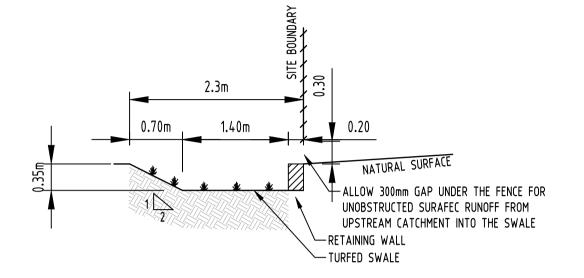


TYPICAL CROSS SECTION ROAD 1 SCALE H=1:100 V=1:100

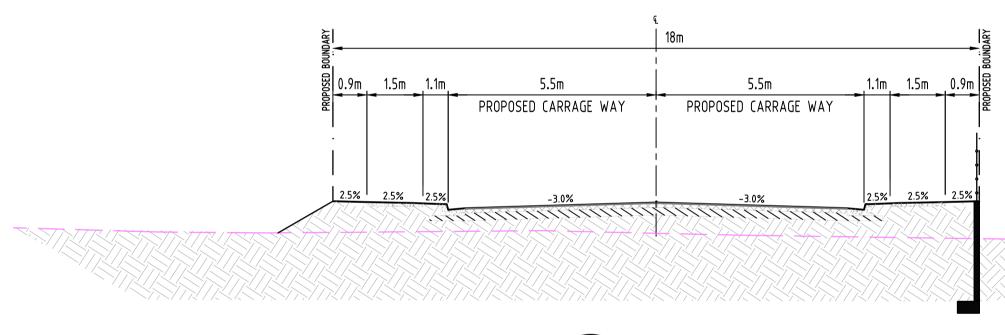


TYPICAL CROSS SECTION - GRANGE AVENUE (RICHMOND ROAD TO BELLS CREEK) SCALE 1:100 (NATURAL)

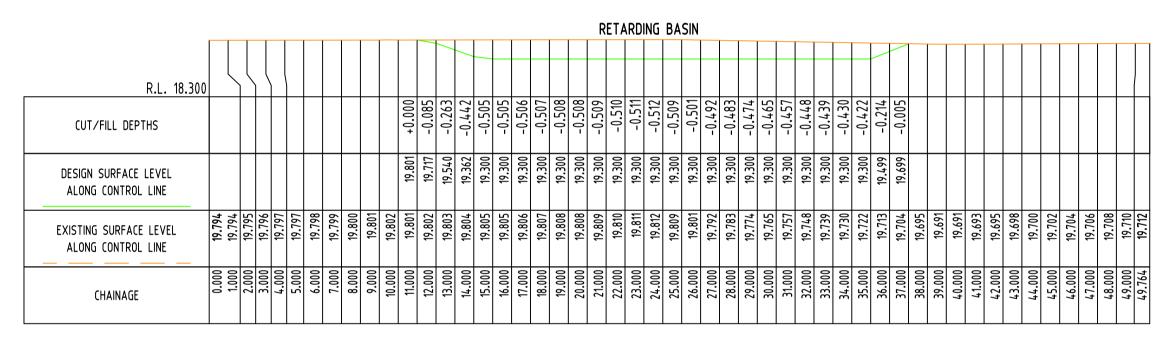
CATCHMENTS RUNOFF MANNING'S OPEN CHANNEL CALCULATIONS CALCULATIONS UNDEVELOPED UPSTREAM CATCHMENT FORMULA: Q = $AR_3^2S_2^1/n$ AREA = 31192m2 S = 0.045 m/mSLOPE = 0.02m/m n = 0.035 (GRAVEL/STONE n = 0.06 MULCH BASE) L = 600m (LONGEST DISTANCE OF TRAVEL) USE: BOTTOM WIDTH W = 1.40m Tc = 20mins TOP WIDTH = 2.10m DEPTH D = 0.35m I₁₀ = 89.1mm/hr l₁₀₀ = 138mm/hr f = 0.10AREA OF FLOW: $A = 0.61m^2$ $C_{10} = 0.67$ PERIMETER OF FLOW: P = 2.52m $C_{100} = 0.80$ HYDRAULIC RADIUS: R = 0.24m $Q_{10} = 0.67 \times 89.1 \times 31192 / 3600 = 0.52 \text{m}^3 / \text{s}$ $Q_{100} = 0.80 \times 138 \times 31192 / 3600 = 0.96 \text{m}^3 / \text{s}$ TOTAL FLOW IN CHANNEL: Q = 1.43m³/s > 0.96m³/s THEREFORE OK.



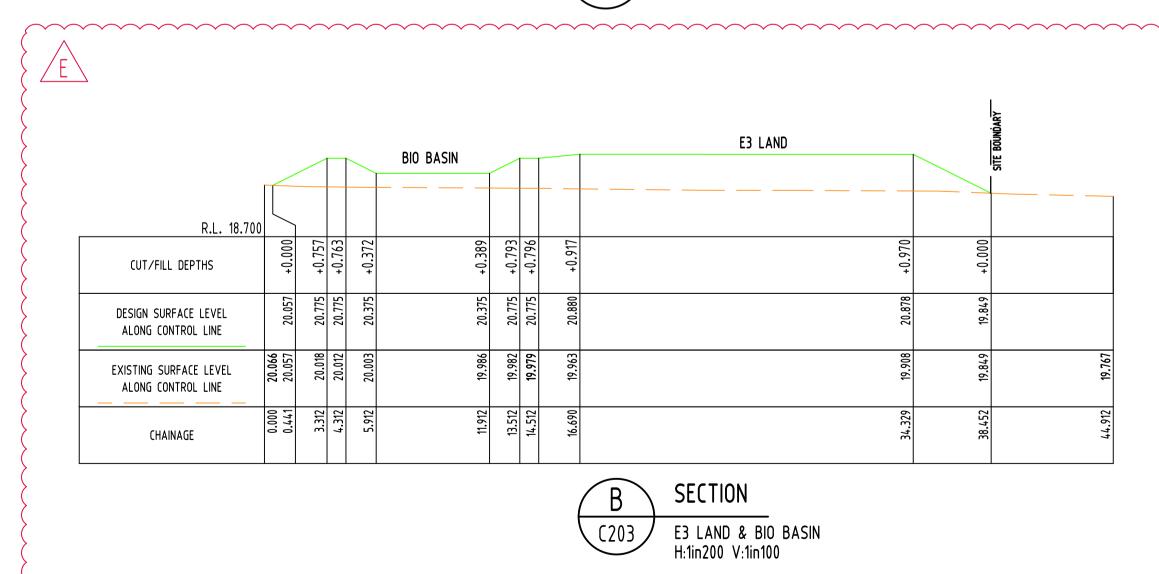






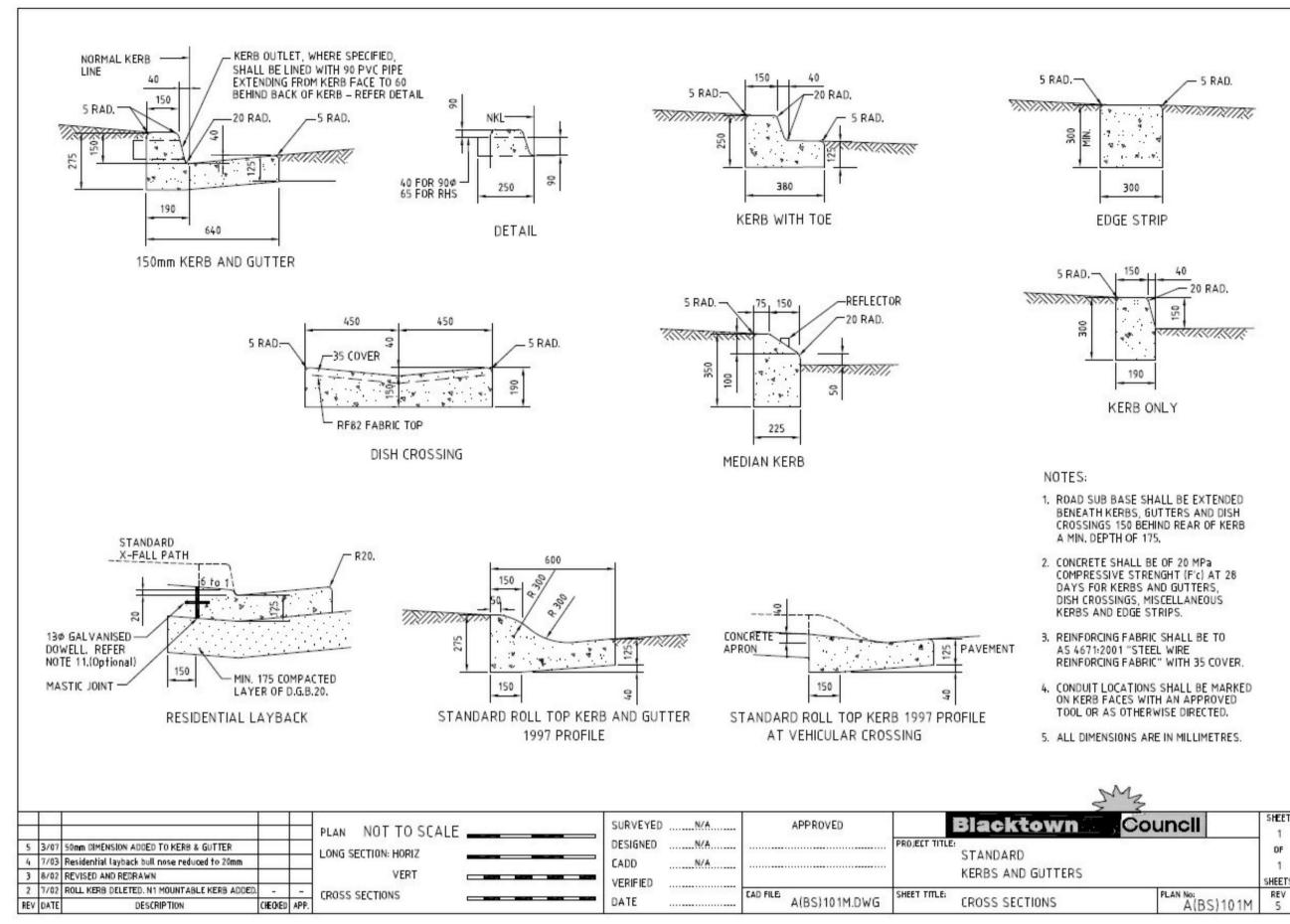


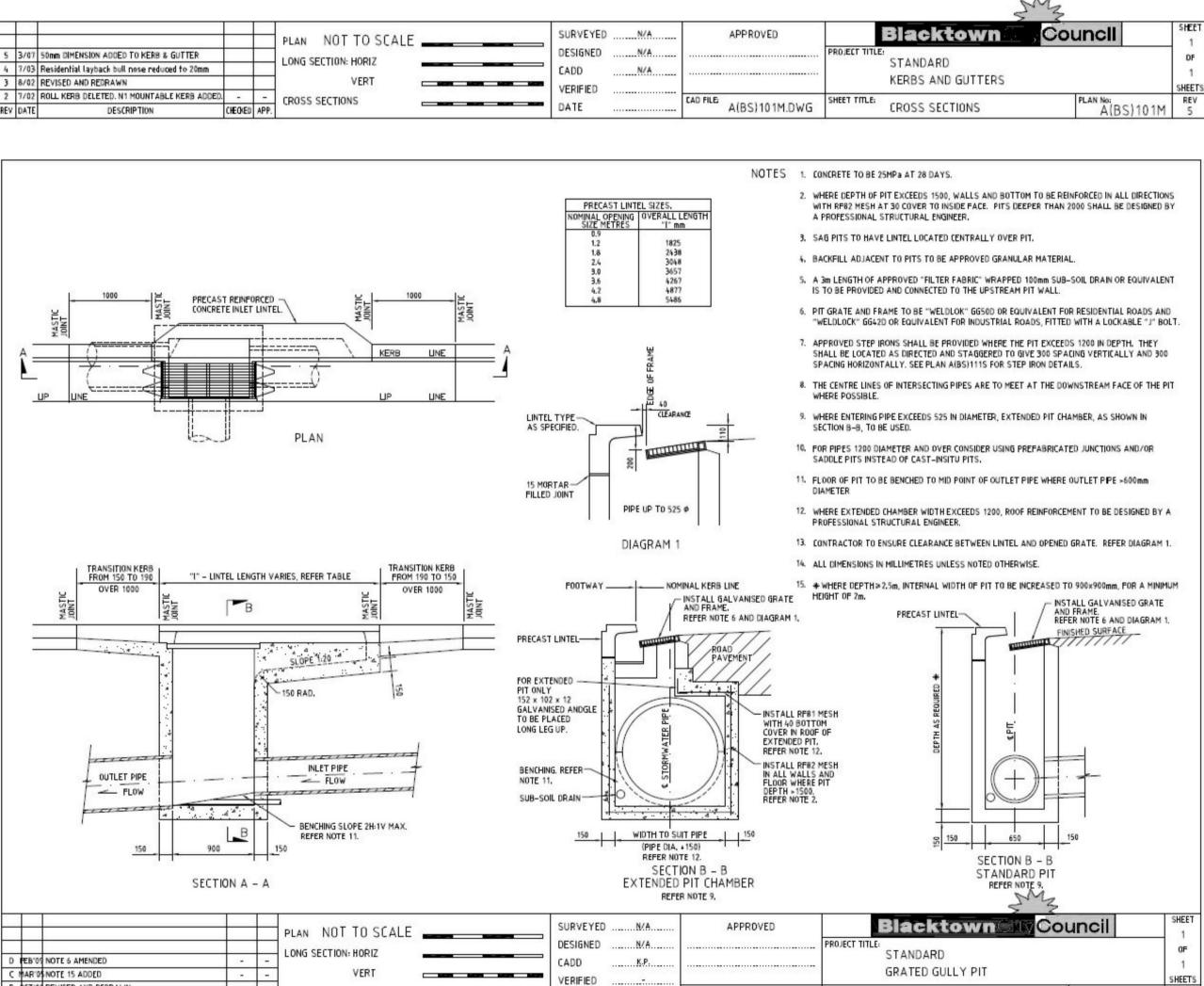




				BIO B	ASIN			E3 LAND		SITE BOUNDARY			_1		BIO BASIN		ROAD BOUNDARY		RO <i>l</i>	D
R.L. 18.70	00	1																		
CUT/FILL DEPTHS	+0.000	+0.757	+0.763	7/0.0+	+0.389	+0.793	+0.917		+0.970	+0.000	R.L. 18.	.800	+0.690	0.254	10.418	+0.838	+1.484	+1.418	+1.277	1.404
ESIGN SURFACE LEVEL ALONG CONTROL LINE	20.057	20.775	20.775	6/5.02	20.375	20.775	20.880		20.878	19.849	DESIGN SURFACE LEVEL	770.02	20.775			20.775 +		21.325		21.344 +
KISTING SURFACE LEVEL ALONG CONTROL LINE	20.066	20.018	20.012	70.003	19,986	19.982	19.963		19.908	19.849	ALONG CONTROL LINE EXISTING SURFACE LEVEL	770.02		20.099	19.957		19.901			19.940
CHAINAGE	0.000	3.312	4.312	71 6.5	11.912	13.512	16.690		34.329	38.452	ALONG CONTROL LINE ———————————————————————————————————	0000		3.969	23.909	25.509	31.576	33.974	35.524	40.574
							(B SECTION C203 E3 LAND & BIO BASIN H:1in200 V:1in100		l					E SECTIO (203 ROAD & II H:1in200 \	DN BIO BASIN V:1in100				

E ISSUE FOR APPROVAL CK 25.06.21 2 D ISSUE FOR APPROVAL CK 17.03.21 2 C ISSUE FOR APPROVAL CK 09.02.21 2 B ISSUE FOR APPROVAL CK 05.02.21 2 A ISSUE FOR APPROVAL SH 18.02.20 2 P2 PRELIMINARY ISSUE JH 18.12.19 1 P1 PRELIMINARY ISSUE JH 09.12.19 1	Reference Coordination Drawing Discipline Drawing Title and Number ARCH ARCH STRUCT MECH ELEC HYD	Date Rev. Dimensions not shown to be checked on site. Do not scale of this drawing. Positions of authorities mains and/or existing services are to be checked prior to commencement of work. Report any discrepancies to the consulting	DESIGNED CK DATE 25.	written consent of s&g consultants pty LtD 6.21 6.21	Om 2 4 6 8 10 SCALE 1:200 ON ORIGINAL SIZE Om 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE	CLIENT M DEVELOPMENT GROUP PTY LTD	ARCHITECT	SGC	ST. LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au			NOT TO BE USED FO	APPROVAL FOR CONSTRUCTION PURP S - ROAD DE AD CROSS SECTION	ESIGN
Issue Last revision title by Date Sta	FIRE	ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS	VERIFIED SH DATE 25.	5.21						Grid Datum Sheet	Scale (at original size)	Project No	Drawing No	Revision No
1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other	CIVIL SURVEY	DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.	APPROVED SH DATE 25.	5.21				Engineering Value	A.B.N. 21 118 222 530	- A.H.D. 10 of 2	21 AS SHOWN	20190191	C351	E

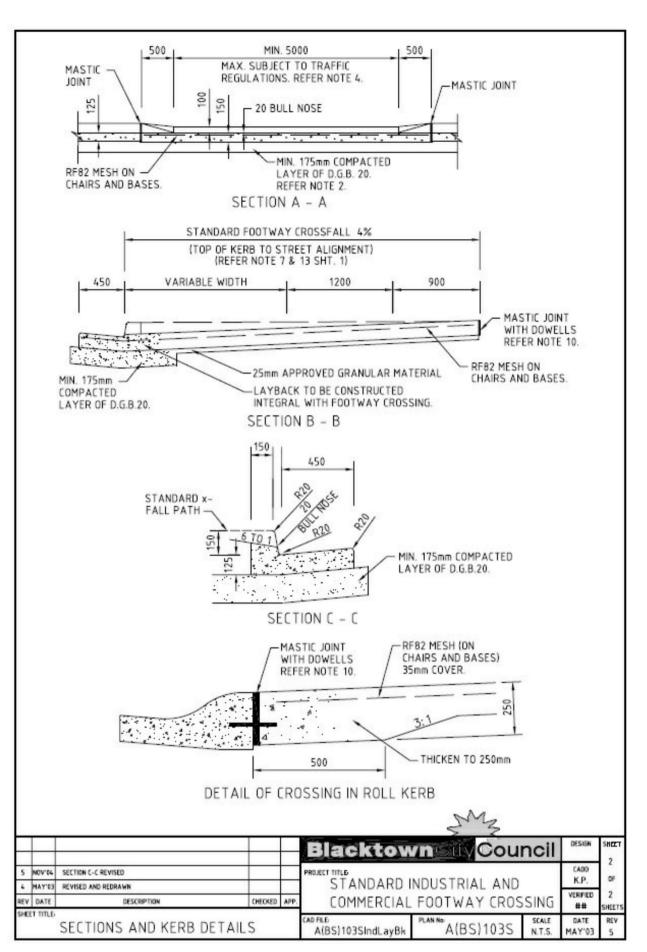


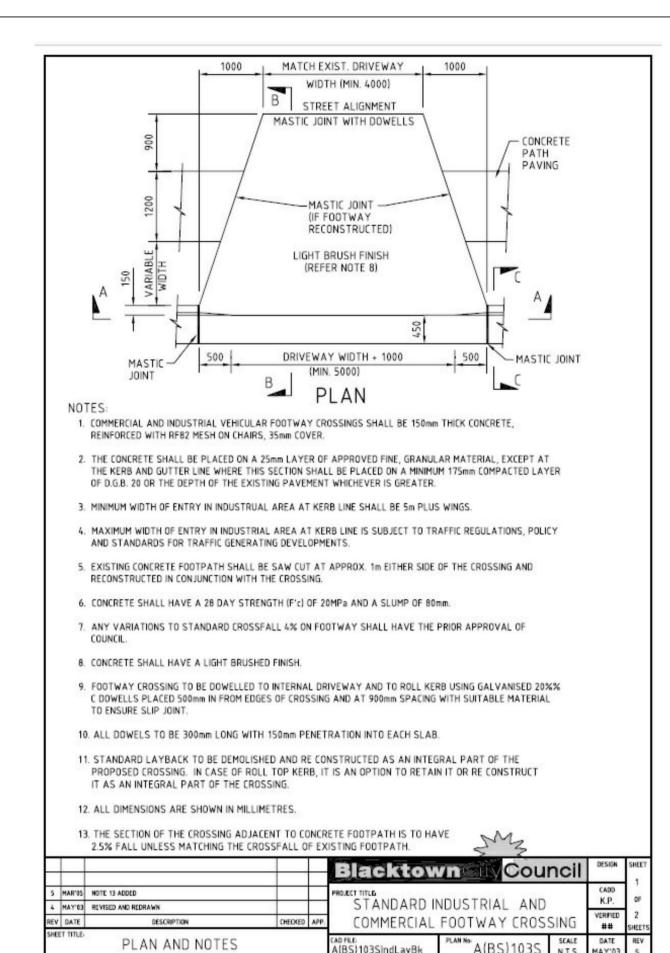


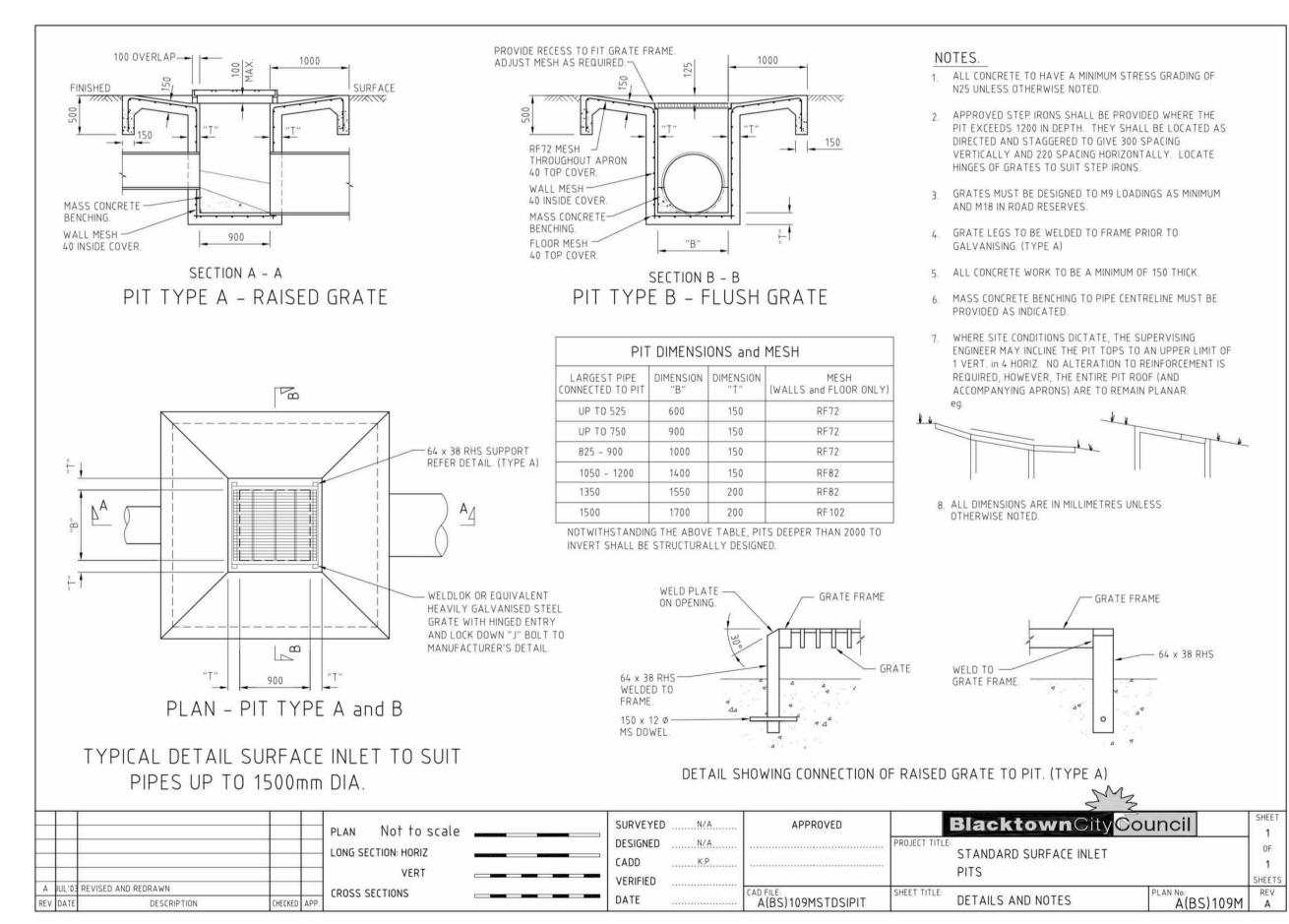
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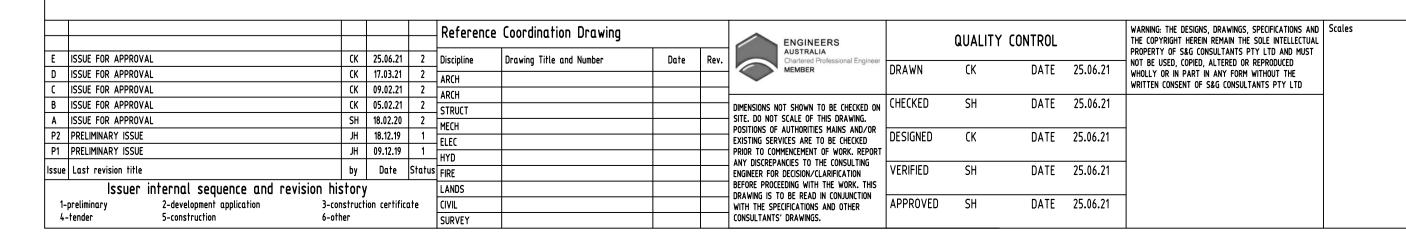
DETAILS AND NOTES

A(BS)106M D









CROSS SECTIONS

DESCRIPTION

ARCHITECT M DEVELOPMENT GROUP PTY LTD design cubicle



Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2065 DEVELOPMENT T: +61 2 8883 4239 Email: office@sgce.com.au 205-209 GRANGE AVENUE, Web: www.sgce.com.au

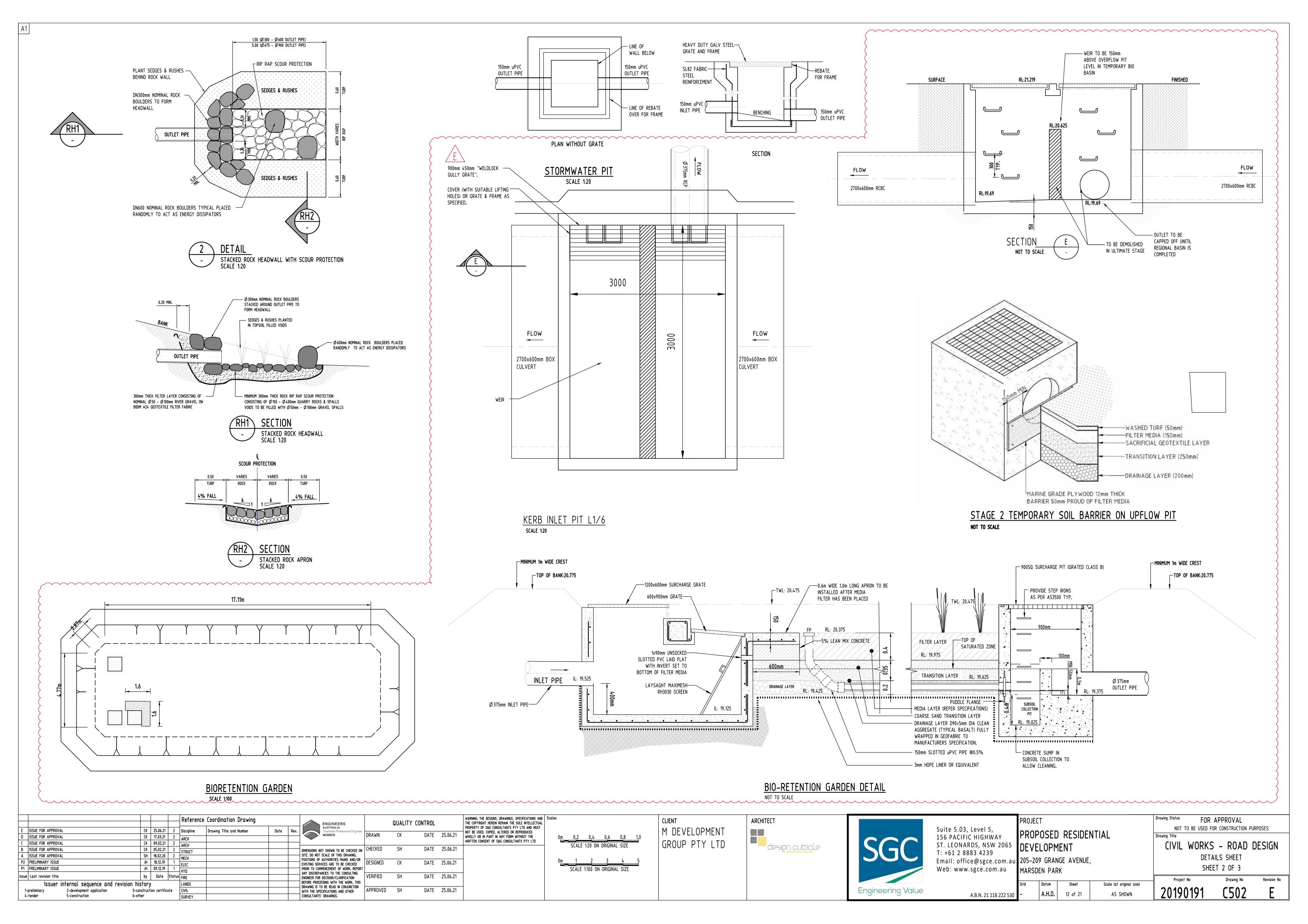
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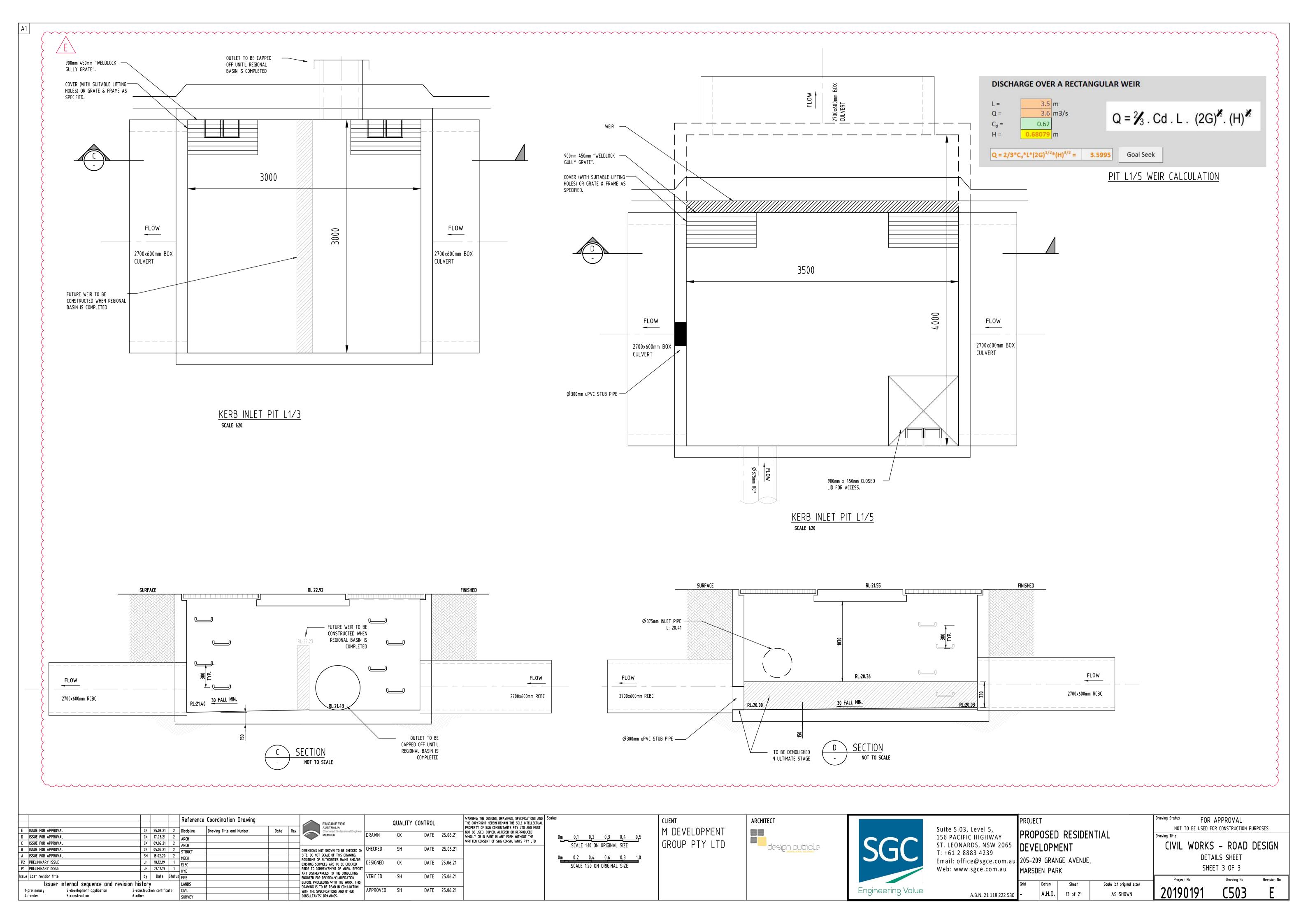
PROJECT PROPOSED RESIDENTIAL MARSDEN PARK

A.H.D. |

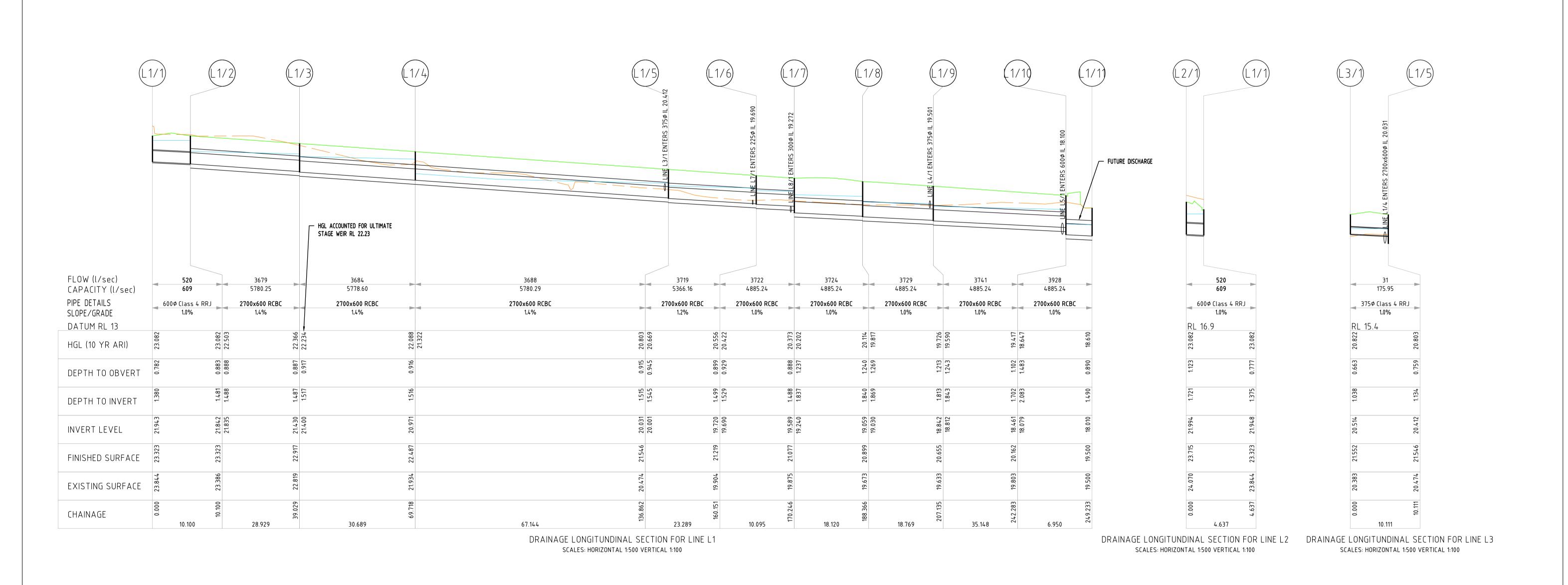
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES CIVIL WORKS - ROAD DESIGN DETAILS SHEET SHEET 1 OF 3

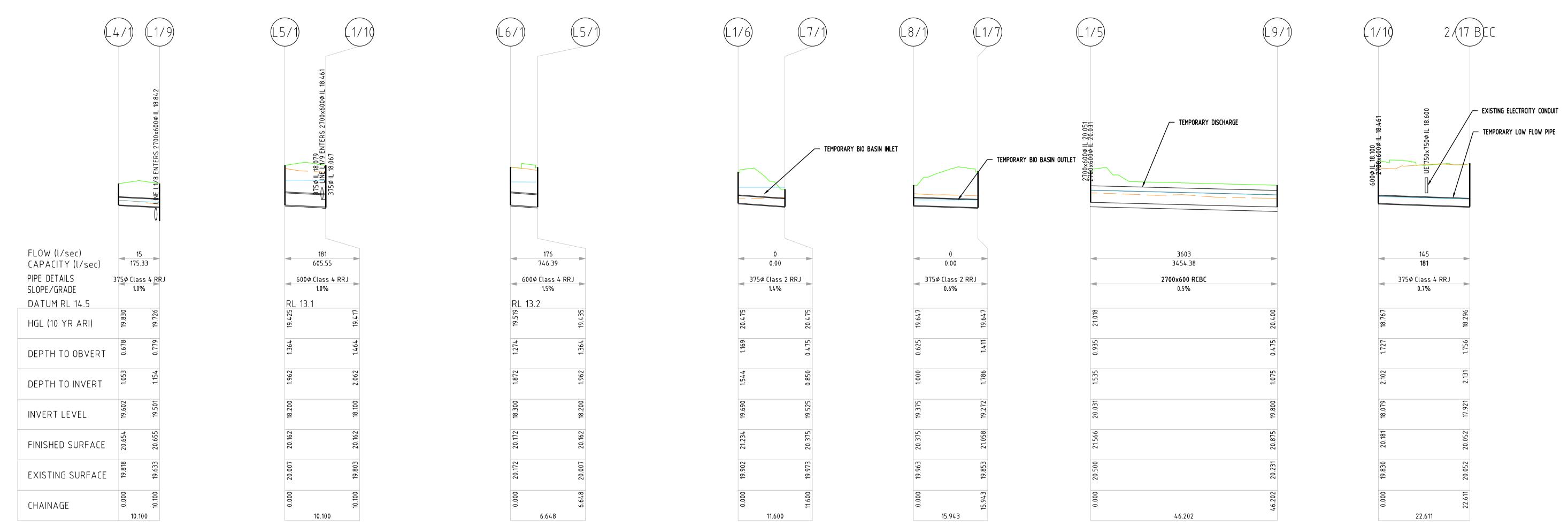
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ISSUE FOR APPROVAL CK	25.06.21 2	Discipline Drawing Title and Number	Date Rev. AUSTRALIA Chartered Professional Engineer			PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED		M DEVELOPMENT			Suite 5.03, Level 5,		ים הכוחרג	ITIAI	NOT TO BE USED F	OR CONSTRUCTION PU	JRPOSES
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	Reference Coordination Drawing	ENGINEERS QUALITY CON	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL	L	CLIENT	ARCHITECT			PROJECT	Drawing Status FOR APPROVAL
E ISSUE FOR APPROVAL CK 25.06.21	2 Discipline Drawing Title and Number Date Re	AUSTRALIA Chartered Professional Engineer	PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED		M DEVELOPMENT			Suite 5.03, Level 5,	DDODOCED DECIDENTIAL	NOT TO BE USED FOR CONSTRUCTION PURPOSES
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P2 PRELIMINARY ISSUE JH 18.12.19	1 FIFC	POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED DESIGNED CK	ATE 25.06.21					Email: office@sgce.com.au	205-209 GRANGE AVENUE,	
P1 PRELIMINARY ISSUE JH 09.12.19	1 HYD	PRIOR TO COMMENCEMENT OF WORK. REPORT							MARSDEN PARK	SHEET 2 OF 2
Issue Last revision title by Date	Status FIRF	ANY DISCREPANCIES TO THE CONSULTING VERIFIED SH	ATE 25.06.21					G	TIANSDEN TANN	Daile H. Daile H. Daile H.
Issuer internal sequence and revision history	LANDS	BEFORE PROCEEDING WITH THE WORK. THIS							Grid Datum Sheet Scale (at original size)	Project No Drawing No Revision No
1-preliminary 2-development application 3-construction certifica	te CIVIL		ATE 25.06.21				Engineering Value	A D N. 24 440 222 520	- A.H.D. 15 of 21 AS SHOWN	20190191 C602 E
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	CATHMENT TO PIT L1/3 (271m2)	CATHMENT TO PIT L1/4 (271m2)
	CATHMENT TO PIT L1/5 (601m2)	CATHMENT TO PIT L3/1 (1148m2)
	CATHMENT TO PIT L1/6 (212m2)	CATHMENT TO PIT L5/1 (315m2)
	CATHMENT TO PIT L1/8 (230m2)	CATHMENT TO PIT L6/1 (9004m2)
	CATHMENT TO PIT L1/9 (175m2)	CATHMENT TO PIT L1/10 (313m2)
	CATHMENT TO PIT L1/7 (89m2)	CATHMENT TO PIT L4/1 (525m2)

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DATE 25.06.21

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Reference Coordination Drawing

Drawing Title and Number

CK 25.06.21 2 Discipline

CK 17.03.21 2 ARCH

CK 09.02.21 2 ARCH

CK 05.02.21 2 STRUCT

SH 18.02.20 2 MECH

JH 18.12.19 1 ELEC

JH 09.12.19 1 HYD

by Date Status FIRE

on history
3-construction certificate
6-other
LANDS
CIVIL
SURVEY

ISSUE FOR APPROVAL

D ISSUE FOR APPROVAL

ISSUE FOR APPROVAL

B ISSUE FOR APPROVAL

A ISSUE FOR APPROVAL

P2 PRELIMINARY ISSUE
P1 PRELIMINARY ISSUE

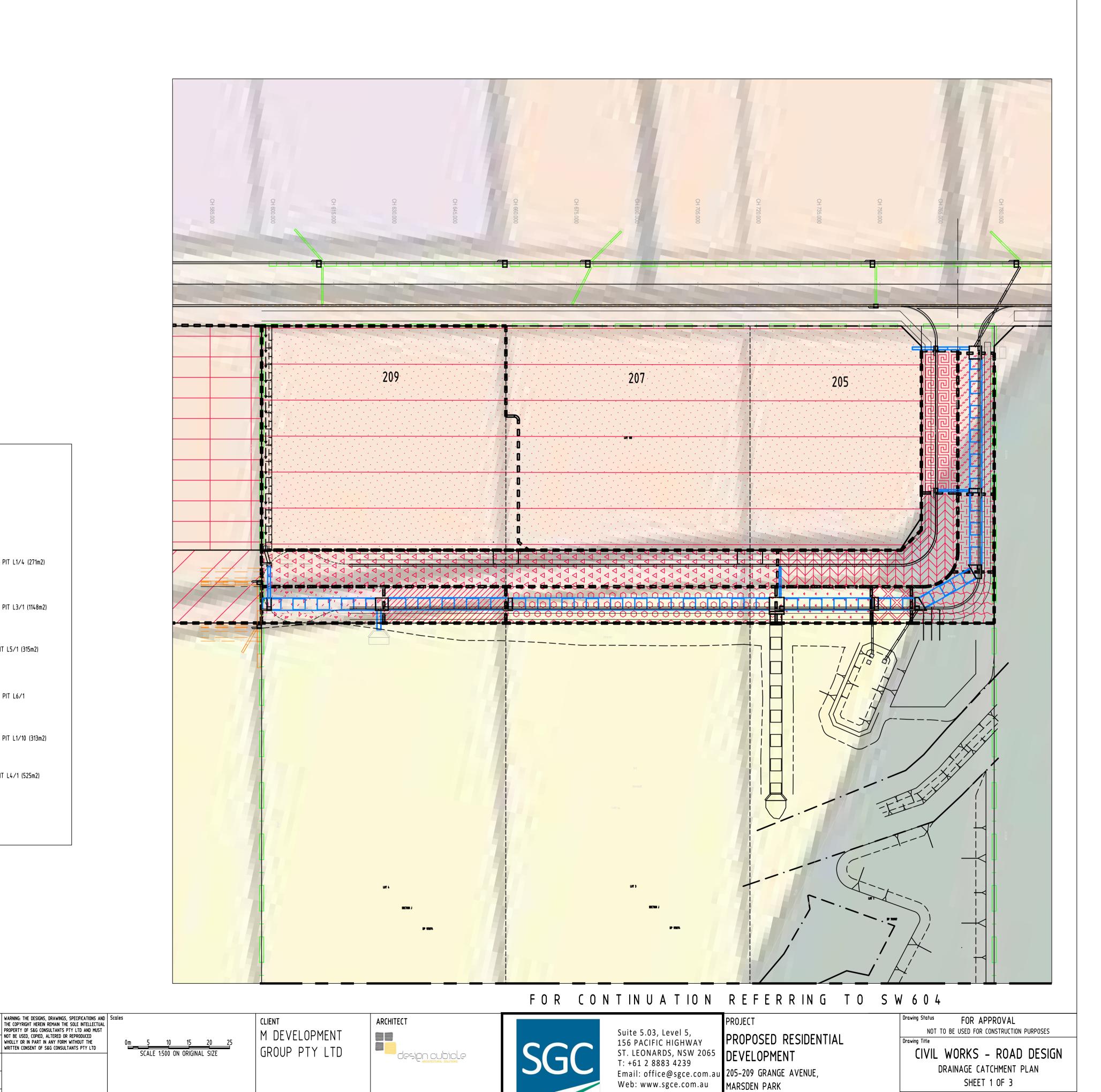
Issue Last revision title

1-preliminary

Issuer internal sequence and revision history

2-development application

5-construction



Engineering Value

Drawing No

C603

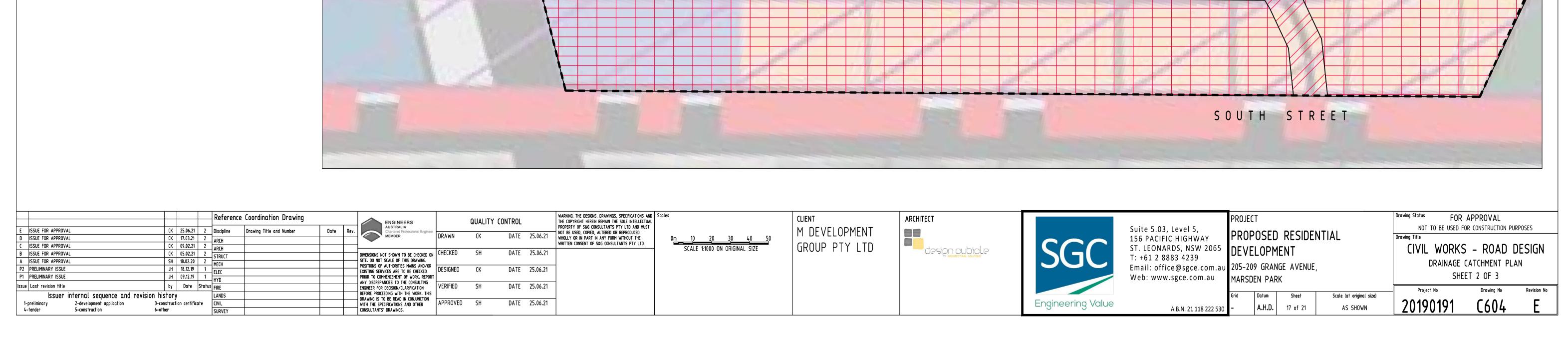
20190191

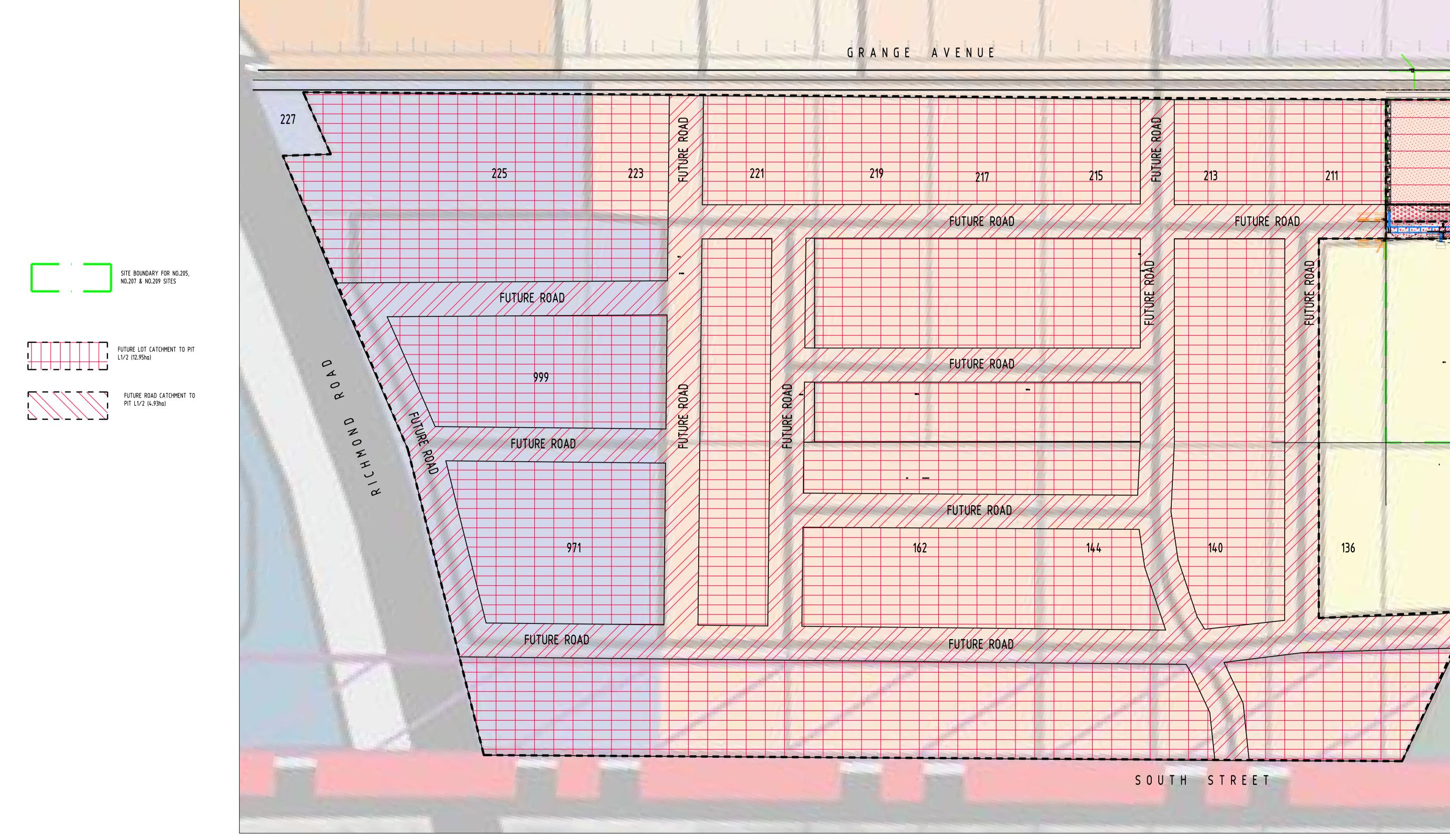
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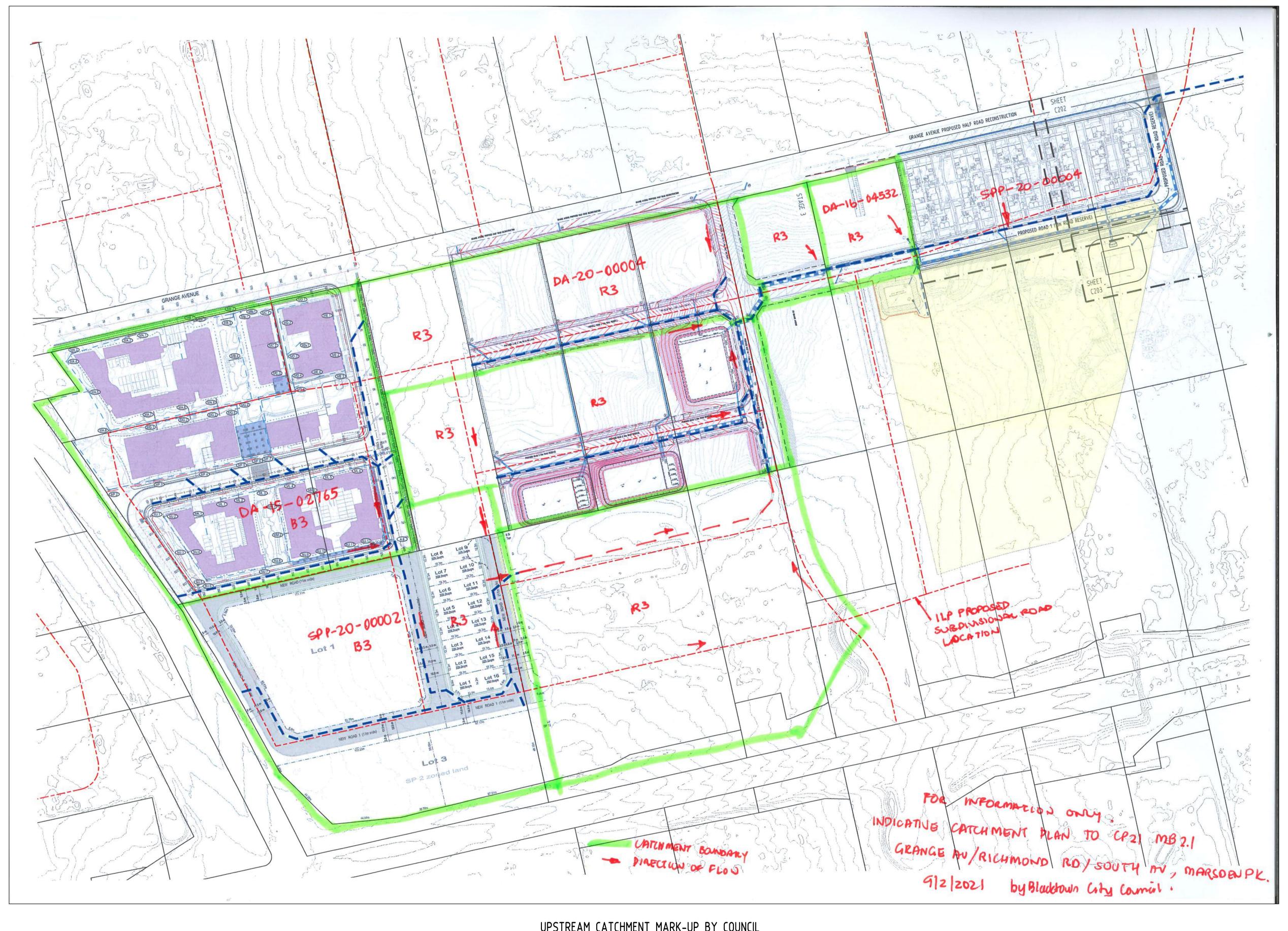
AS SHOWN

A.H.D. 16 of 21

A.B.N. 21 118 222 530

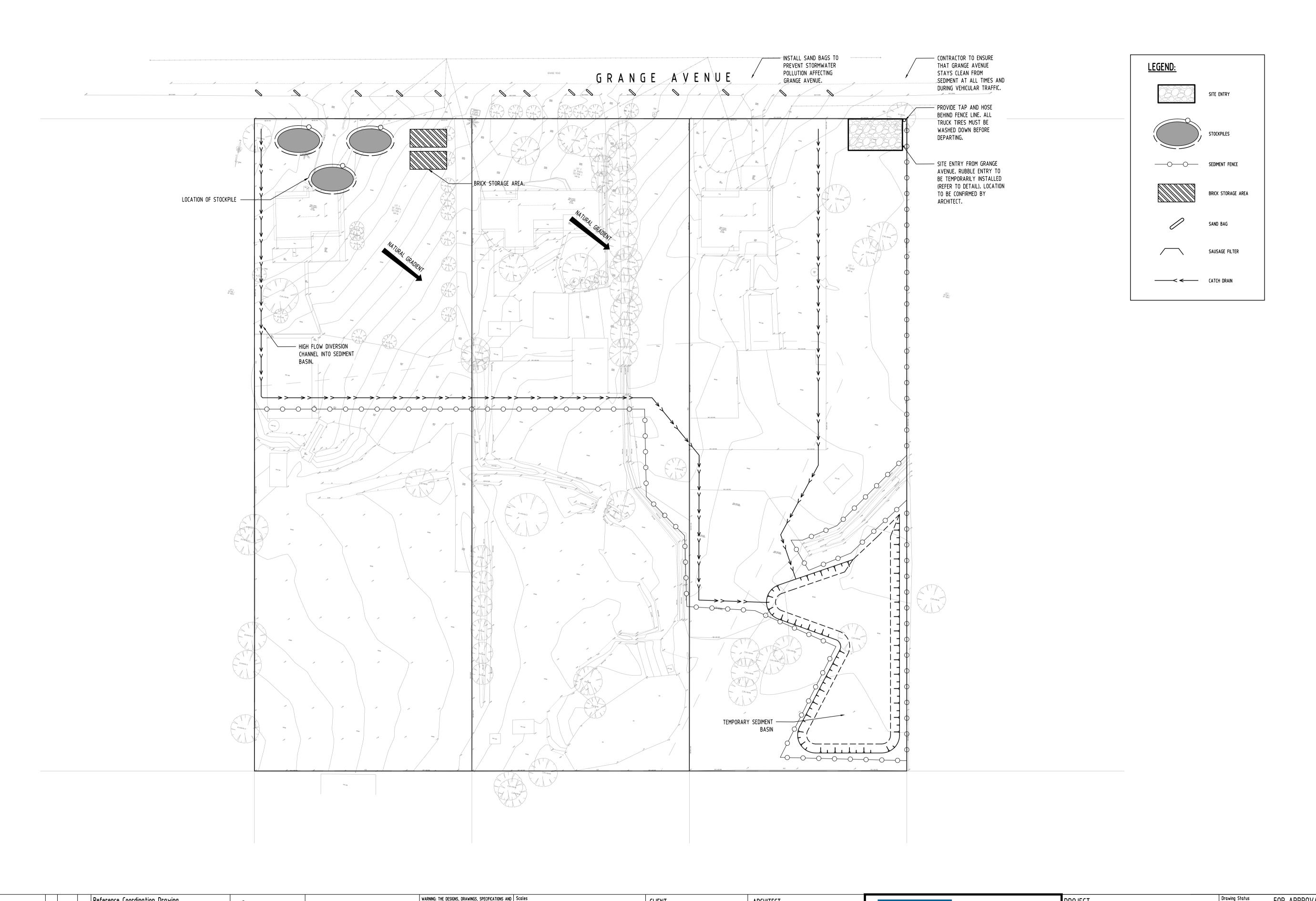






UPSTREAM CATCHMENT MARK-UP BY COUNCIL

Reference Coordination Drawing	ENGINEERS QUALITY CUNTRUL THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL	CLIENT	ARCHITECT			PROJECT			APPROVAL	IDDOGEG
E ISSUE FOR APPROVAL CK 25.06.21 2 Discipline Drawing Title and Number	Date Rev Chatered Professional Engineer	M DEVELOPMENT			Suite 5.03, Level 5,	DDODOCED DECIDE	NITIAI	NOT TO BE USED FOR	JR CONSTRUCTION PUR	RPUSES
D ISSUE FOR APPROVAL CK 17.03.21 2 ARCH	DRAWN CK DATE 25.06.21 NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE				156 PACIFIC HIGHWAY	PROPOSED RESIDE	NIIAL	Drawing Title		
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GENERAL NOTES

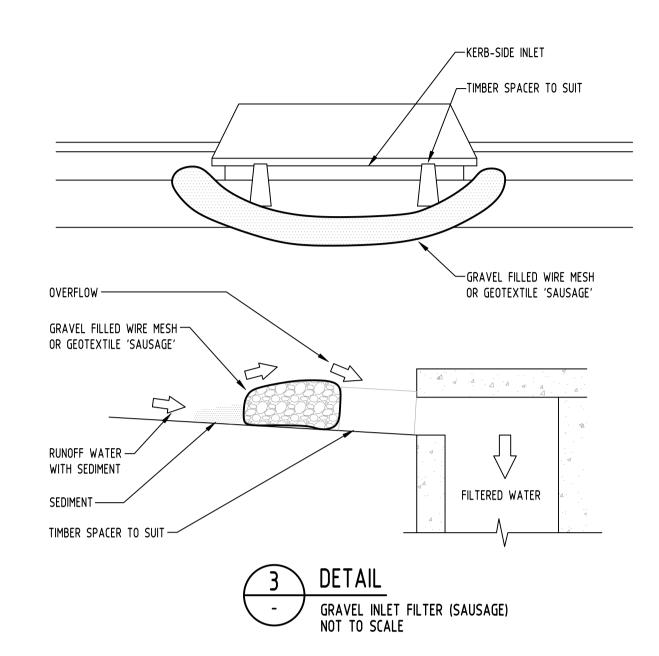
- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

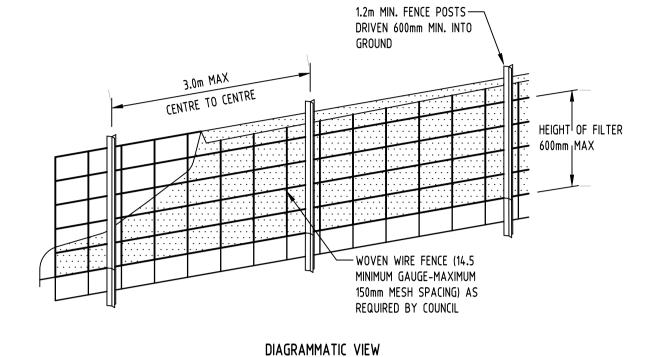
CLAY SOILS

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
- 2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL

EROSION & SEDIMENTATION CONTROL NOTES

- 1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- 2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- 3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- 4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- 5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.





CONSTRUCTION NOTES:

DETAIL
SEDIMENT FENCE
NOT TO SCALE

1.2m MIN FENCE POST

WOVEN WIRE FENCE WITH— FILTER CLOTH OVER

EMBEDED FILTER-

CLOTH MINIMUM 200mm INTO GROUND

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAT THE LENGTH OF THE INLET PIT

TYPICAL SECTION

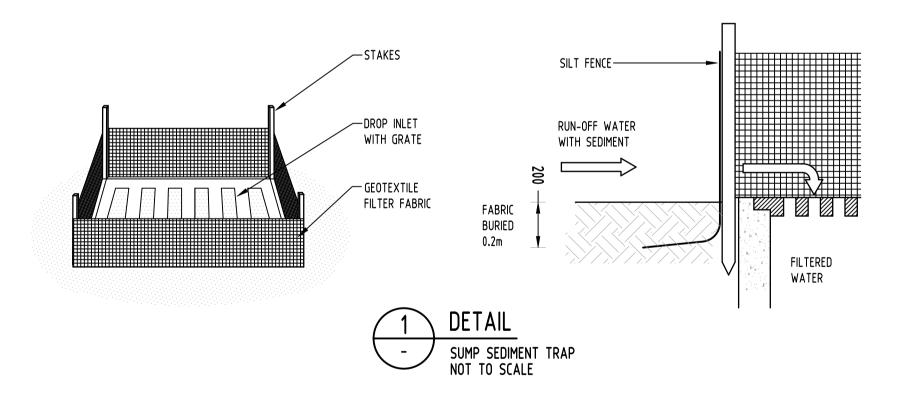
FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

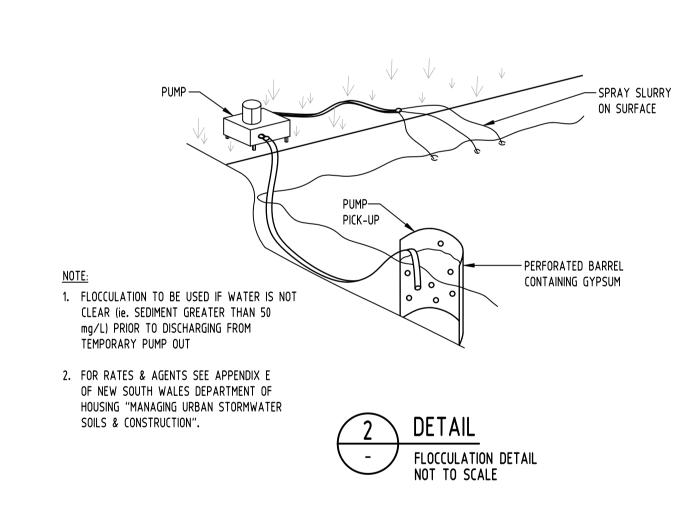
FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY

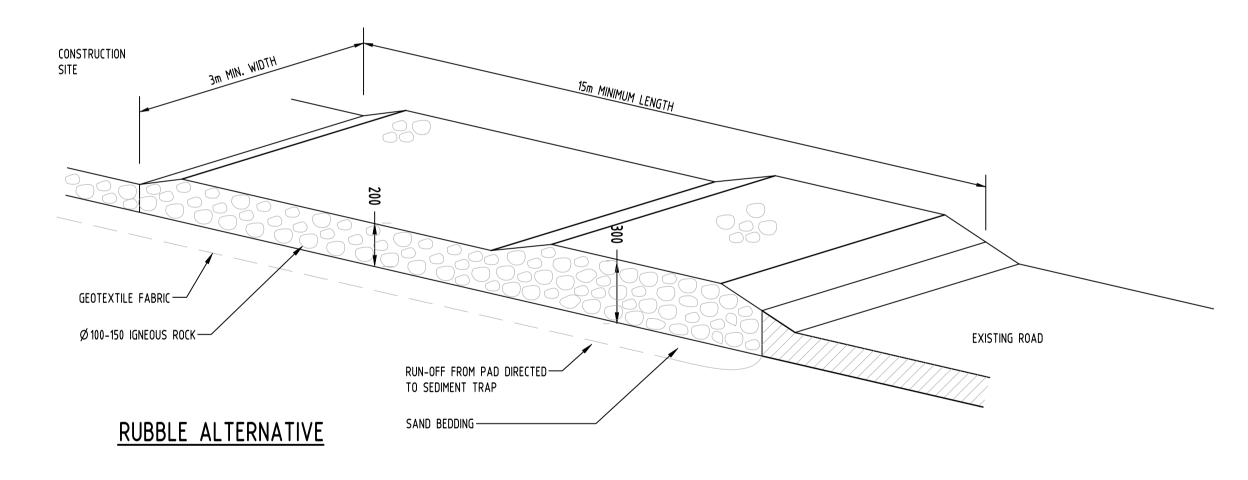
MAINTAIN THE OPENING WITH SPACER BLOCKS

FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER

FIT TO ALL KERB INLETS AT SAG POINTS









	Reference Coor	rdination Drawing	ENGINEERS		QUALITY CO	NTROL	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SAG CONSULTANTS PTY LTD AND MUST	Scales	CLIENT	ARCHITECT			PROJECT			APPROVAL	2056
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