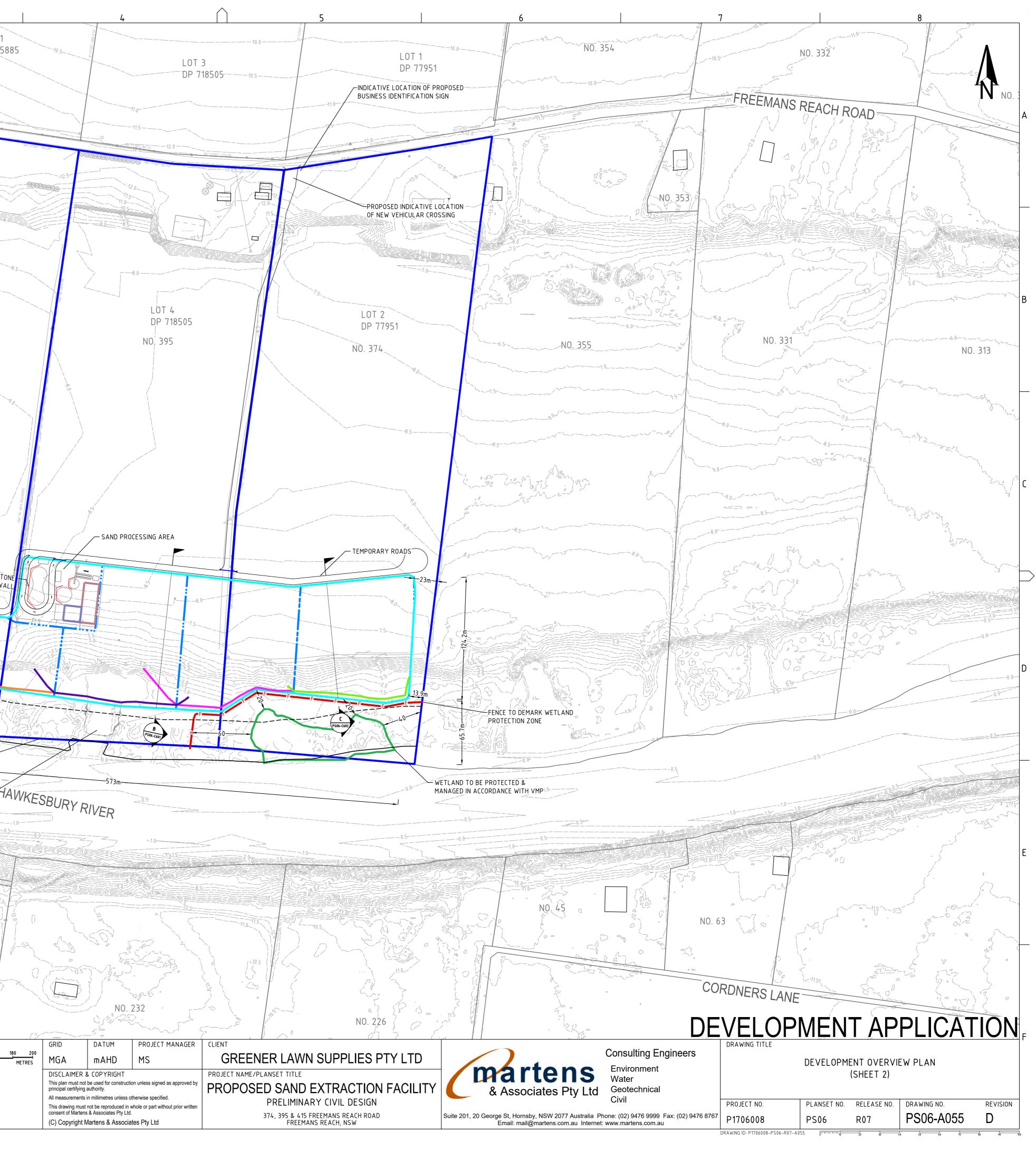
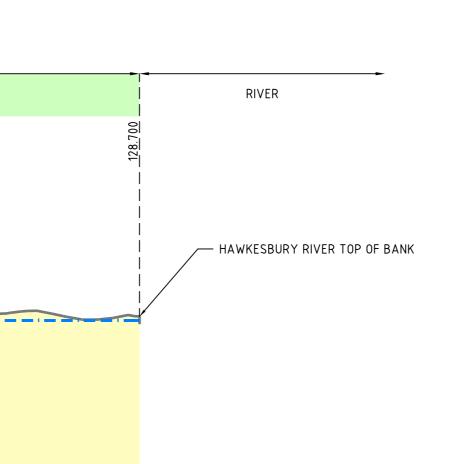
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USER: NNKZAD	NOTES: - ALL DIMENSIONS ARE APPROXIMATE. - FINAL SURFACE CONTOURS ARE BASED ON PROPOSED, EXISTI KEY EXISTING CONTOURS INDICATIVE LOCATION OF EXISTING WELLINGS SITE BOUNDARY EXTENT OF PROPOSED EXTRACTION AREA QUARRY PROGRESSION BOUNDARY INDICATIVE TOP OF BANK WATERFRONT LAND (40m FROM TOP OF BANK) AREA 1 PROTECTIVE BUND AT 2.2 mAHD (UP TO 1.2m HIGH FROM EXISTING GROUND SURFACE) AREA 2 PROTECTIVE BUND AT 2.2 mAHD (UP TO 1.7m HIGH FROM EXISTING GROUND SURFACE) AREA 3 PROTECTIVE BUND AT 2.2 mAHD (UP TO 1.7m HIGH FROM EXISTING GROUND SURFACE) AREA 4 PROTECTIVE BUND AT 2.2 mAHD (UP TO 1.7m HIGH FROM EXISTING GROUND SURFACE) AREA 4 PROTECTIVE BUND AT 2.2 mAHD (UP TO 1.7m HIGH FROM EXISTING GROUND SURFACE) AREA 4 PROTECTIVE BUND AT 2.2 mAHD (UP TO 1.7m HIGH FROM EXISTING GROUND SURFACE, DISCONTINUOUS) WETLAND PROTECTION FENCE MAPPED WETLAND COMMUNITY	F F F F F F F F F F F F F F F F F F F	S. EXISTING INLET TO BE FILLED PRIOR TO THE EXTRACTION OPERATION 40m RIPARIAN BUFFER 00 00 00 00 00 00 00 00 00 0	E 2 40 60 80 100 120 140 160 180



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CHAINAGE 8		WORKS EXTENT (69.2m)		69.233	RIPARIAN BUFFER (5	9.5m)	28.700	RIVER	t						KEY EXISTING S FINAL DESI	SURFACE SIGN SURFACE		
	OPER			FINAL DESIGN SURFACE				- HAWKESBURY RIV	/ER TOP OF BAN	IK						ONAL SURFACE	¥	
			SECTION A															
			SECTION A SCALE: HORIZONTAL - 1:5 VERTICAL - 1:500	 1:500														
							GROUND	WATER TABLE @ RL	L 0.4m AHD	lll								
			3		1		GROUND	WATER TABLE @ R	L 0.4m AHD									
			3				GROUND	WATER TABLE @ R	L 0.4m AHD									
INAL DESIGN			3	5.776 5.676 5.575 5.475		5.074 4.973 4.873 4.773		WATER TABLE @ RL	01-+	3.669	3.425 2.924 2.615							
INAL DESIGN SURFACE LEVELS	N	.578 .578 .478 .378	3	0.259 5.876 -0.241 5.776 -0.741 5.676 -1.241 5.575 -1.241 5.575		5.074 4.973 4.873 4.873 4.773	4.672 4.572 4.472	1 4.371 3 4.271 4 170			3.425 3.2524 2.615							
FINAL DESIGN SURFACE LEVELS OPERATIONAL DESIGN SURFACE LEVELS EXISTING SURFACE LEVELS	N	5.546 6.678 4.879 6.578 4.212 6.478 3.546 6.378	879 6.277 .212 6.177 .212 6.177 .212 6.077 .879 5.977 .259 5.876		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	741 5.074 241 4.973 241 4.873 741 4.873 725 4.773	-4.226 4.672 -3.728 4.572 -3.230 4.472	-2.731 4.371 -2.233 4.271 *	4.170	-0.239 3 0.259 3 0.876 3	3.425 2.924 2.615							
DATUM RL -11.000 FINAL DESIGN SURFACE LEVELS	6.212 V	6.779 5.546 6.678 6.732 4.879 6.578 6.685 4.212 6.478 6.618 3.546 6.378	2.879 6.277 6.277 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	6.24.3 0.2 6.185 -0 6.126 -0 6.058 -1.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-3.741 5.074 -4.241 4.973 -4.741 4.873 -4.725 4.773	2.911 -4.226 4.672 2.678 -3.728 4.572 2.678 -3.728 4.572 2.569 -3.230 4.472	8 2.576 -2.731 4.371 7 2.584 -2.233 4.271 6 2.592 -1.734 4.170	-1.134 4.100 -1.236 4.070 -0.738 3.970	2.557 -0.239 3 2.545 0.259 3 2.545 0.876 3	5 2.576 1.541 3.425 5 2.601 2.205 2.924 2 2.617 2.615 2.615							

SCALE: HORIZONTAL - 1:200 VERTICAL - 1:200

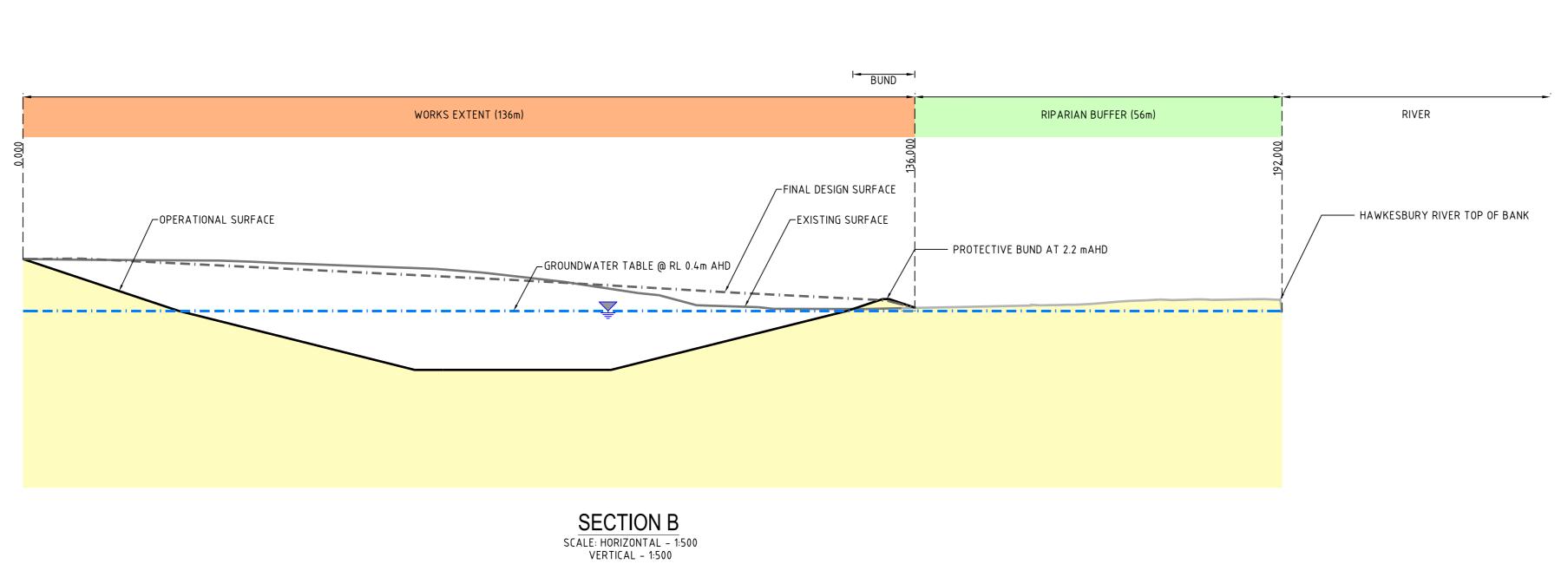
REV	DESCRIPTION	DATE	DRAW	N DESIG	INED CHEC	KED APP	RVD S	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT		DRAWING TITLE			I
	MINOR AMENDMENTS	16/07/2021	NN	CG/	M WL	IS M	s (0 <u>5</u> 10 <u>15</u> 20 <u>25</u> 30 <u>35</u> 40 <u>45</u> 50			MC	GREENER LAWN SUPPLIES PTY LTD	Consulting Engineers				
) KZAI	MINOR AMENDMENTS	28/04/2020	LL/GN	1 (5 MS/	/MK M	S	A1 (A3) 1:500 (1:1,000) METRES	MUA		MS	GREENER LAWN SUFFLIES FITLID			EARTHWORKS SEC		
NN B	MINOR AMENDMENT	01/05/2019	GM	HS/V	WW MS/	/MK M	S (0 <u>2</u> 4 <u>6</u> 8 <u>10</u> 12 <u>14</u> 16 <u>18</u> 20	DISCLAIMER	R & COPYRIGHT		PROJECT NAME/PLANSET TITLE			during ope	RATION	
A USEF	FOR DA SUBMISSION	21/11/2018	LZ	HS/\	ww MS/	/DM M	S	A1 (A3) 1:200 (1:400) METRES	This plan must n principal certifyin	not be used for constru ng authority.	uction unless signed as approved by	PROPOSED SAND EXTRACTION FACILITY					
1									All measurement	ts in millimetres unles	s otherwise specified.		& Associates Pty Ltd Geotechnical Civil				
									This drawing mu	ist not be reproduced	in whole or part without prior written	PRELIMINARY CIVIL DESIGN	Civil	PROJECT NO.	PLANSET NO. RELEAS	SE NO. DRAWING NO.	REVISION
ITED									consent of Marte	ens & Associates Pty I	Ltd.	374, 395 & 415 FREEMANS REACH ROAD	Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 87	7 0170(000		PS06-C600	
PRIN									(C) Copyright	t Martens & Asso	ciates Pty Ltd	FREEMANS REACH, NSW	Email: mail@martens.com.au Internet: www.martens.com.au	P1706008	PS06 R07	F 300-0000	
A1 / A3 L	ANDSCAPE (A1LC_v02.0.01)				•	•			•			•		DRAWING ID: P1706008-PS06-R0)7-C600 0000000000000000000000000000000000	30 40 50 60 70	80 90 100



KEY	
EXISTING SURFACE	
FINAL DESIGN SURFACE	 <i> </i>
OPERATIONAL SURFACE	
GROUNDWATER TABLE	

DEVELOPMENT APPLICATION

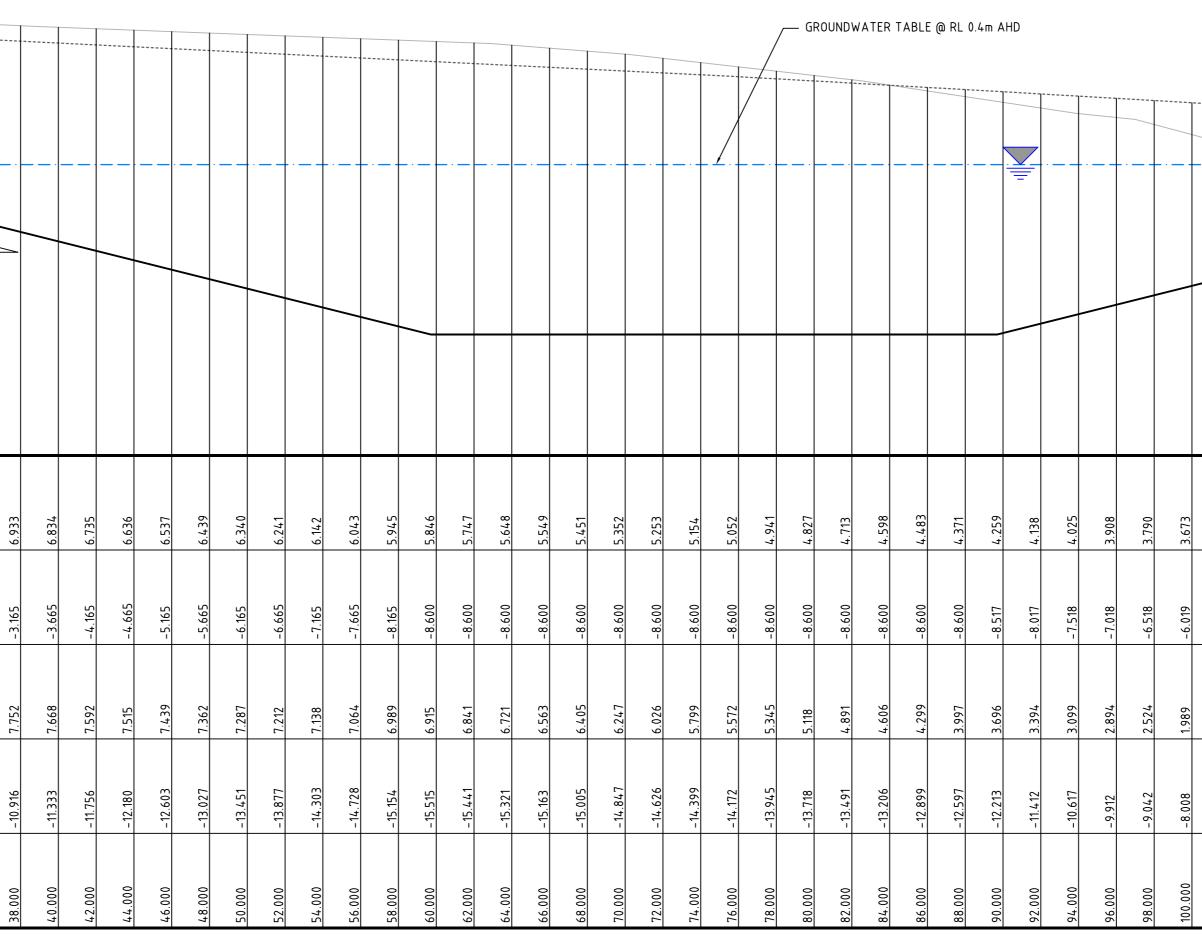
CHAINAGE





								3											1	4
DATUM RL -15.000																				
FINAL DESIGN SURFACE LEVELS	8.314	8.324	8.342	8.359	8.376	8.316	8.217	8.118	8.019	7.921	7.822	7.723	7.624	7.525	7.427	7.328	7.229	7.130	1E0 T	107.1
OPERATIONAL DESIGN SURFACE LEVELS	8.314	7.647	6.980	6.314	5.647	4.980	4.314	3.647	2.980	2.314	1.647	0.980	0.335	-0.165	-0.665	-1.165	-1.665	-2.165	-2 665	100.4-
EXISTING SURFACE	8.305	8.283	8.260	8.238	8.215	8.193	8.174	8.163	8.152	8.141	8.130	8.119	8.108	8.097	8.086	8.071	8.000	7.929	7846	010.
OPERATIONAL CUT / FILL DEPTH	0.009	ý	-1.280	-1.924	-2.568	-3.213	-3.861	-4.516	-5.172	-5.828	-6.483	-7.139	-7.773	-8.262	-8.751	-9.236	-9.665	-10.094		
CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	000 [.] 7E	000.95	222.00

RE	EV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	G	GRID	DATUM	PROJECT MANAGER	CLIENT
_ (C	MINOR AMENDMENTS	16/07/2021	NN	CG/JW	MS	MS	0 <u>5</u> 10 <u>15</u> 2025 <u>30</u> 35 <u>4045</u> 5		MGA	mAHD	MS	GREENER LAWN SUPPLIES PTY LTD
MZA E	В	MINOR AMENDMENTS	28/04/2020	LL/GM	CG	CG	MS	A1 (A3) 1:500 (1:1,000) METRES		ADM	ΠΑΠΟ		GILLINLIN LAWIN SUIT LILST TT LTD
S NN	A	FINAL DESIGN SURFACE GRADING	18/10/2019	GM	CG	CG	MS		° D	DISCLAIMER &	COPYRIGHT		PROJECT NAME/PLANSET TITLE
USEF								A1 (A3) 1:200 (1:400) METRES		This plan must not b principal certifying a		on unless signed as approved by	PROPOSED SAND EXTRACTION FACILITY
1									- I '	, .	n millimetres unless o	therwise specified	
												vhole or part without prior written	PRELIMINARY CIVIL DESIGN
TED											& Associates Pty Ltd		374, 395 & 415 FREEMANS REACH ROAD
PRIN									(((C) Copyright M	lartens & Associa	tes Pty Ltd	FREEMANS REACH, NSW
A1 /	' A3 L7	ANDSCAPE {A1LC_v02.0.01}			II								



SECTION B

SCALE: HORIZONTAL - 1:200 VERTICAL - 1:200



P1706008

PS06

R07

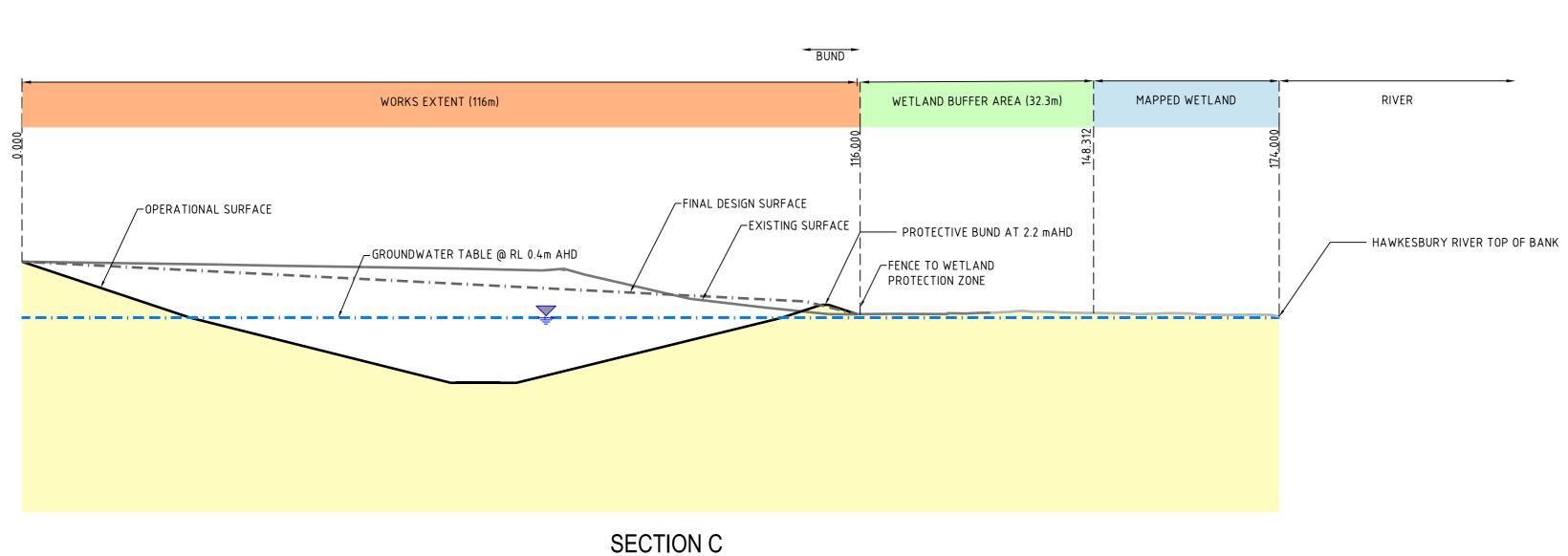
DRAWING ID: P1706008-PS06-R07-C601

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3.908	3.790	3.673	3.553	3.436	3.319	3.206	3.105	3.004	2.903	2.801	2.700	2.599	2.498	2.397	2.296	2.194	2.093	1.888	1.388	_	
-7.018	-6.518	-6.019	-5.519	-5.019	-4.519	-4.020	-3.520	-3.020	-2.521	-2.021	-1.521	-1.022	-0.522	-0.022	0.503	1.170	1.836	2.200	1.566	_	
2.894	2.524	1.989	1.455	1.217	1.155	1.094	1.032	0.970	0.757	0.712	0.707	0.703	0.698	0.694	0.690	0.685	0.724	0.769	0.811		E
-9.912	-9.042	-8.008	-6.973	-6.237	-5.675	-5.113	-4.552	-3.990	-3.278	-2.733	-2.229	-1.724	-1.220	-0.716	-0.186	0.485	1.112	1.431	0.755		
96.000	98.000	100.000	102.000	104.000	106.000	108.000	110.000	112.000	114.000	116.000	118.000	120.000	122.000	124.000	126.000	128.000	130.000	132.000	134.000		
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S _td	Wate	ronme	ent			D	RAWIN	G TITL	E	EA		WORI	<s se<="" td=""><td></td><td>NS (S</td><td></td><td>- 2)</td><td></td><td></td><td>VISION</td><td></td></s>		NS (S		- 2)			VISION	

PS06-C601

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CHAINAGE



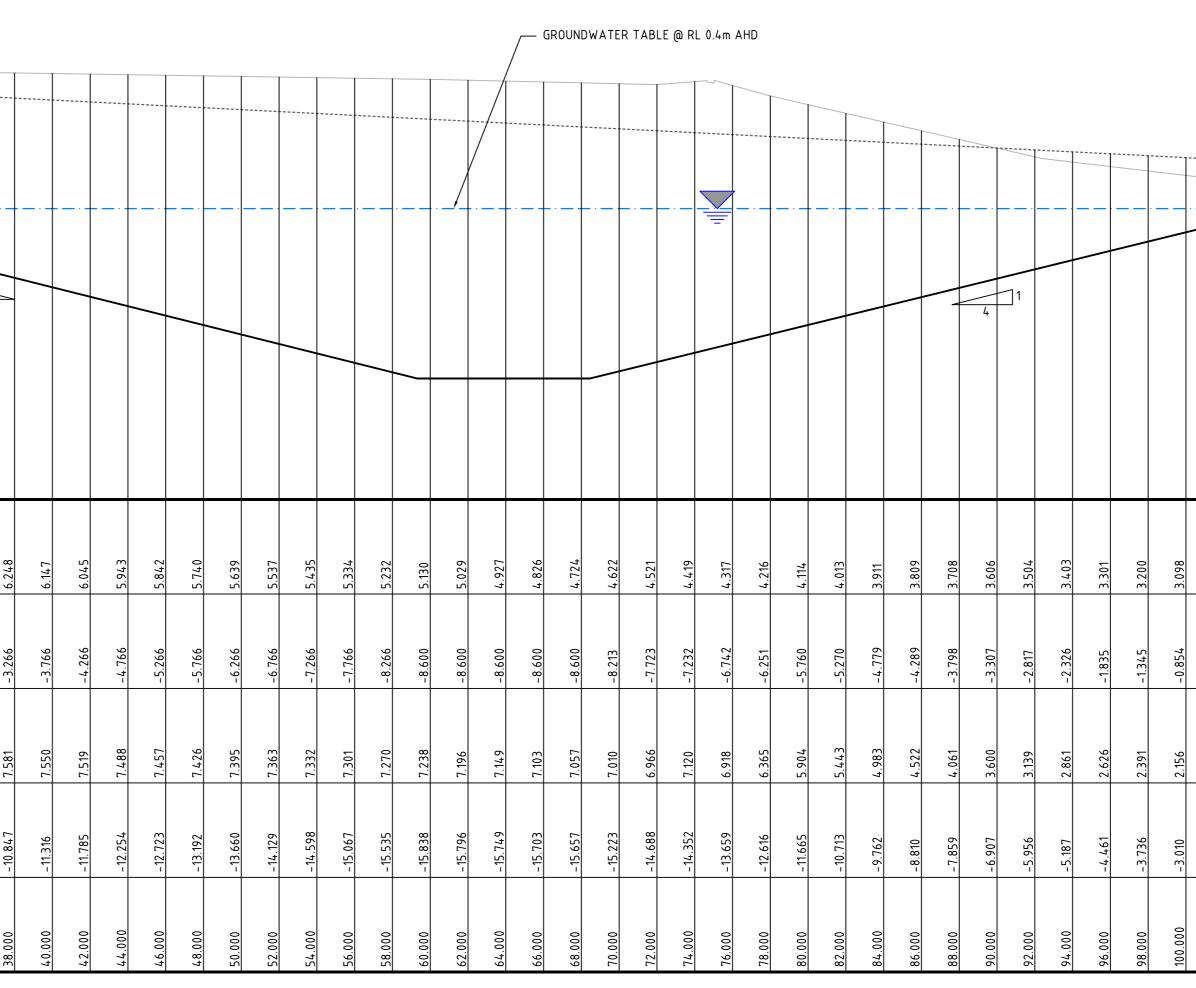


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DATUM RL -15.000																				
FINAL DESIGN SURFACE LEVELS		8.077	7.976	7.874	7.773	7.671	7.569	7.468	7.366	7.264	7.163	7.061	6.960	6.858	6.756	6.655	6.553	6.452	6.350	6.248
OPERATIONAL DESIGN SURFACE LEVELS		7.512	6.846	6.179	5.512	4.846	4.179	3.512	2.846	2.179	1.512	0.846	0.234	-0.266	-0.766	-1.266	-1.766	-2.266	-2.766	-3.266
EXISTING SURFACE	8.179	8.150	8.121	8.092	8.063	8.034	8.005	7.976	7.947	7.918	7.889	7.860	7.831	7.802	7.768	7.728	7.688	7.648	7.612	7.581
OPERATIONAL CUT / FILL DEPTH	0.000	-0.638	-1.275	-1.913	-2.550	-3.188	-3.826	-4.463	-5.101	-5.739	-6.376	-7.014	-7.596	-8.067	-8.534	-8.994	-9.454	-9.914	-10.378	-10.847
CHAINAGE	0.000		4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000

	REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE								
	C	MINOR AMENDMENTS	16/07/2021	NN	CG/JW	MS	MS	0 5 0	10	15	20	25	30	35	40	45
NKZA	В	MINOR AMENDMENTS	28/04/2020	LL/GM	CG	CG	MS	A1 (A3)	1:500 (1	l:1,000)						MET
S: NNI	А	FINAL DESIGN SURFACE GRADING	18/10/2019	GM	CG	CG	MS		4	6	8	10	12	14	16	18
USEF								A1 (A3)	1:200 (1	1:400)						MET
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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

SCALE: HORIZONTAL - 1:500 VERTICAL - 1:500



SECTION C

SCALE: HORIZONTAL - 1:200 VERTICAL - 1:200





Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 99 Email: mail@martens.com.au Internet: www.martens.com

nent	E	EARTHWORK	S SECTIONS	(SHEET 3)	
nical					
	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
9999 Fax: (02) 9476 8767 com.au	P1706008	PS06	R07	PS06-C602	С
	DRAWING ID: P1706008-PS06-R07-C60	02 011111	20 30 4	0 50 60 70	80 90 100

DEVELOPMENT APPLICATION

102.000	-2.285	1.921	-0.364	2.996	
104.000	-1.580	1.707	0.127	2.895	
106.000	-0.809	1.4.99	0.690	2.793	
108.000	0.054	1.290	1.344	2.691	
110.000	0.916	1.082	1.998	2.280	
112.000	1.172	0.910	2.082	1.789	
114.000	0.533	0.895	1.4.28	1.298	
115.586	0.000	0.909	0.909	0.909	3
]1

KEY	
EXISTING SURFACE	
FINAL DESIGN SURFACE	
OPERATIONAL SURFACE	
GROUNDWATER TABLE	