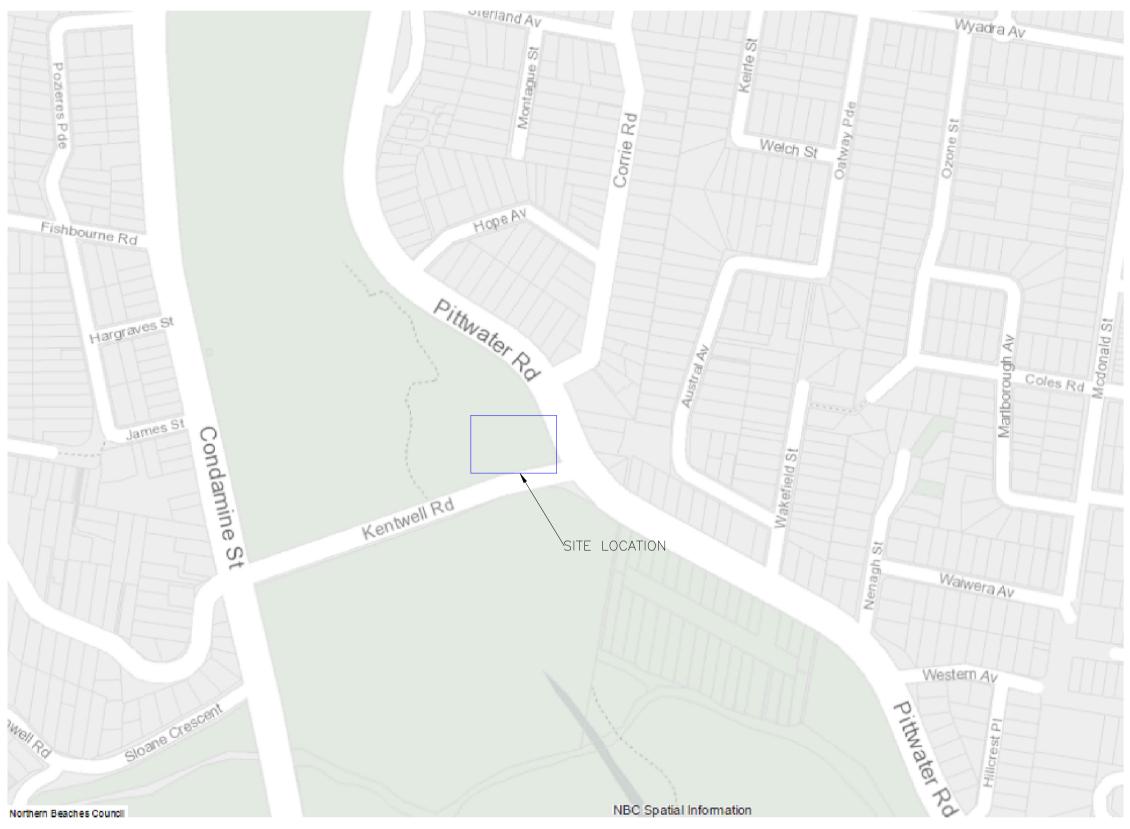


PROPOSED CARPARK UPGRADE KENTWELL ROAD, NORTH MANLY



LOCALITY PLAN NOT TO SCALE

POINT	EASTING	NORTHING	REMARKS
1	339802.78	6261391.98	ALIGNMENT 1 - EASTERN CARPARK CENTRE-LINE
1A	339802.10	6261394.21	ALIGNMENT 1
1B	339804.87	6261399.22	ALIGNMENT 1
2A	339825.84	6261406.10	ALIGNMENT 1
2B	339829.76	6261414.15	ALIGNMENT 1
2 3	339827.88	6261418.72	ALIGNMENT 1
3	339802.31	6261481.19	ALIGNMENT 1
4	339709.35	6261362.01	ALIGNMENT 4 – WESTERN CARPARK CENTRE-LINE
5	339704.52	6261371.20	ALIGNMENT 4
6	339702.98	6261374.99	ALIGNMENT 4
7	339693.58	6261398.15	ALIGNMENT 4
8	339687.72	6261412.56	ALIGNMENT 4
9	339687.33	6261414.41	ALIGNMENT 4
10	339686.68	6261433.43	ALIGNMENT 4

CAUTION — EXCAVATING NEAR TREES TO BE RETAINED

- CAREFULLY EXCAVATE WITH A TRENCHING MACHINE UP TO 2.0 METERS FROM THE BASE
 OF THE TREE. A SPOTTER IS TO BE USED TO GUIDE THE MACHINE AND AVOID DAMAGE
 TO THE TREE ROOTS. THE EXCAVATOR IS TO USE A FLAT BLADE BUCKET WITH NO TEETH.
 EXCAVATION BY HAND DIGGING SHALL BE EMPLOYED WITHIN 2.0 METERS ON EITHER SIDE
- OF THE TREE AND WITHIN 2.0 METERS OF THE TREE TRUNK.

 3. NO TREE ROOT GREATER THAN 40mm IN DIAMETER ARE TO BE CUT WITHOUT PRIOR INSPECTION AND APPROVAL BY COUNCIL'S TREE SERVICES.
- 4. TREE ROOTS LESS THAN 40mm IN DIAMETER ARE TO BE CLEAN CUT WITH A SHARP IMPLEMENT.
- 5. NO MATERIAL IS TO BE STORED UNDER TREES TO BE RETAINED OR AGAINST THE TREE'S TRUNK. GROUND PROTECTION MAY NEED TO BE EMPLOYED AS PER AS 4970-2009 "PROTECTION OF TREES ON DEVELOPMENT SITES", SECTION 4.5.3.
- 6. WHERE INSTRUCTED BY COUNCIL'S TREE SERVICES, TREE PROTECTION BATONS ARE TO BE PLACED AROUND THE TREE TRUNK AS PER AS 4970-2009, SECTION 4.5.2 AND FIGURE
- 7. WHERE THERE IS DISCREPANCY BETWEEN THE CONSTRUCTION DRAWINGS OR A LIKELY PHYSICAL CONSTRAINT ENCOUNTERED BETWEEN THE TREE TO BE RETAINED AND THE INFRASTRUCTURE THAT IS TO BE INSTALLED, AN ALTERNATIVE DESIGN MAY NEED TO BE EMPLOYED. IN THIS SITUATION, STOP ALL WORK IN PROXIMITY OF THE TREE TO BE RETAINED AND CONSULT WITH COUNCIL'S PROJECT ENGINEER IMMEDIATELY. TREE SERVICES IN COLLABORATION WITH THE DESIGNER WILL THEN PROVIDE ADVICE ON THE MODIFICATIONS REQUIRED.
- 8. IF IN DOUBT PLEASE SEEK ADVICE FROM COUNCIL'S TREE SERVICES BEFORE PROCEEDING WITH WORKS.
- 9. FAILURE TO ADHERE TO ANY OF THESE REQUIREMENTS WILL RESULT IN THE CONTRACTOR TO BEAR ALL COSTS ASSOCIATED WITH THE REMEDIATION OR EQUIVALENT REPLACEMENT OF THE TREE TO BE RETAINED.

<u> Caution — Services!!</u>



- THE POSITION OF SERVICES SHOWN ON THE DRAWING ARE INDICATIVE ONLY AND HAVE BEEN PLOTTED FROM PLANS SUPPLIED BY THE RELEVANT UTILITY AUTHORITIES.
- PITS, POLES, MARKER POSTS, SIGNS, ETC. HAVE BEEN PLOTTED ON THE DRAWINGS WHERE SIGHTED AT THE TIME OF SURVEY BUT THE SURVEY DOES NOT INCLUDE DETAILED INVESTIGATION OR PHYSICAL LOCATION OF UNDERGROUND INFRASTRUCTURE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ACTIVITY ON OR ADJACENT TO THE SITE TO OBTAIN UPDATED SERVICES DIAGRAMS THROUGH A DIAL-BEFORE-YOU-DIG SEARCH AND PHYSICAL SEARCH TO ESTABLISH AND CONFIRM THE EXACT LOCATION/S AND DEPTH/S OF ALL UNDERGROUND SERVICES, PRIOR TO COMMENCEMENT.

DRAWING INDEX

DRAWING NO. DESCRIPTION

1000 COVER SHEET, LOCALITY PLAN AND INDEX

2000 GENERAL ARRANGEMENT SHEET 1

3000 CIVIL WORKS & SET-OUT PLAN SHEET 1

3001 CIVIL WORKS & SET-OUT PLAN SHEET 2

3002 CIVIL WORKS & SET-OUT PLAN SHEET 3

3003 CIVIL WORKS & SET-OUT PLAN SHEET 4

4000 LONGITUDINAL SECTIONS

5000 TO 5002 CROSS SECTIONS — ALIGNMENT 1

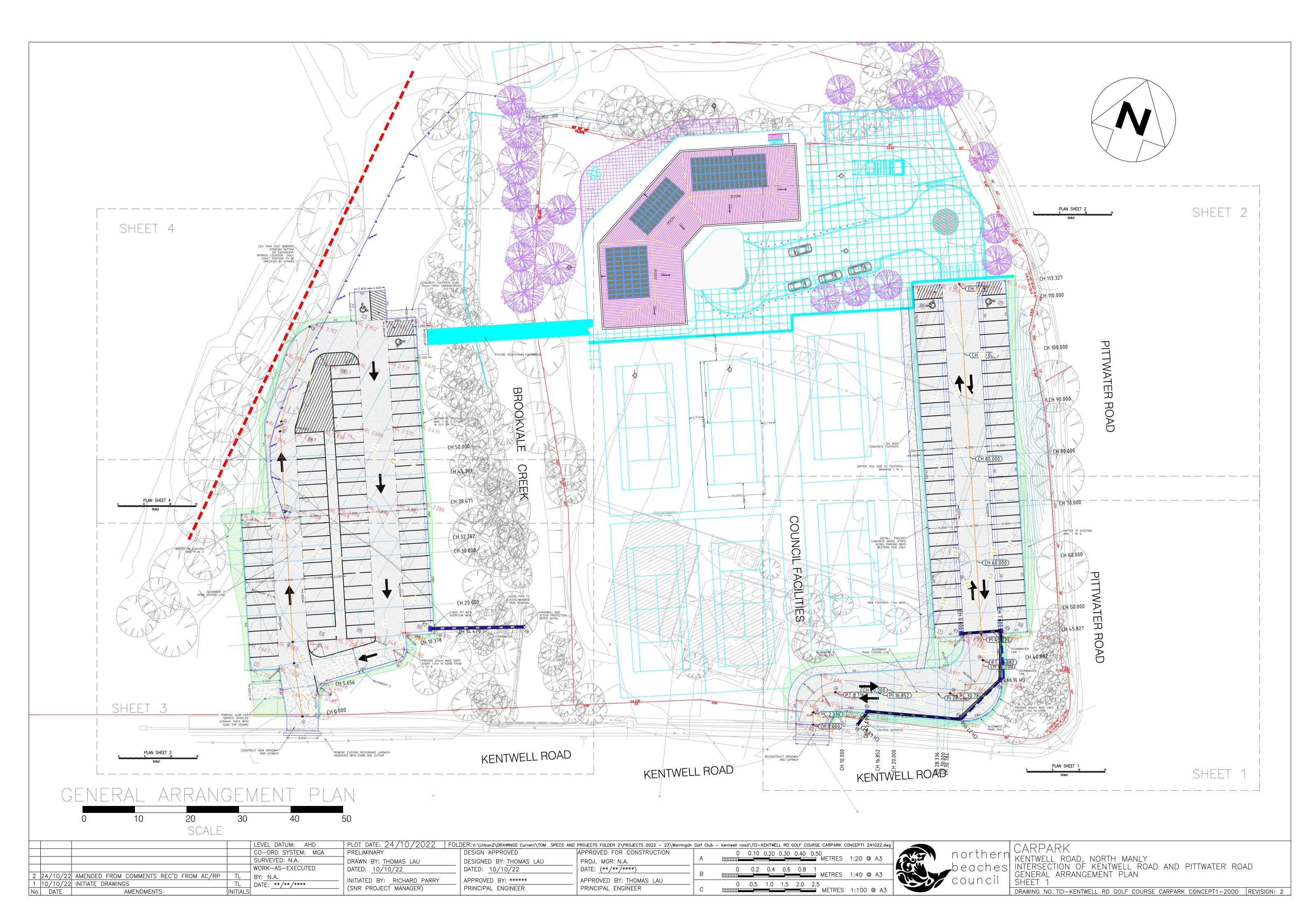
5003 TO 5006 CROSS SECTIONS — ALIGNMENT 4
6000 STANDARD DETAILS SHEET 1
6001 STANDARD DETAILS SHEET 2
6002 STANDARD DETAILS SHEET 3
6003 STANDARD DETAILS SHEET 4

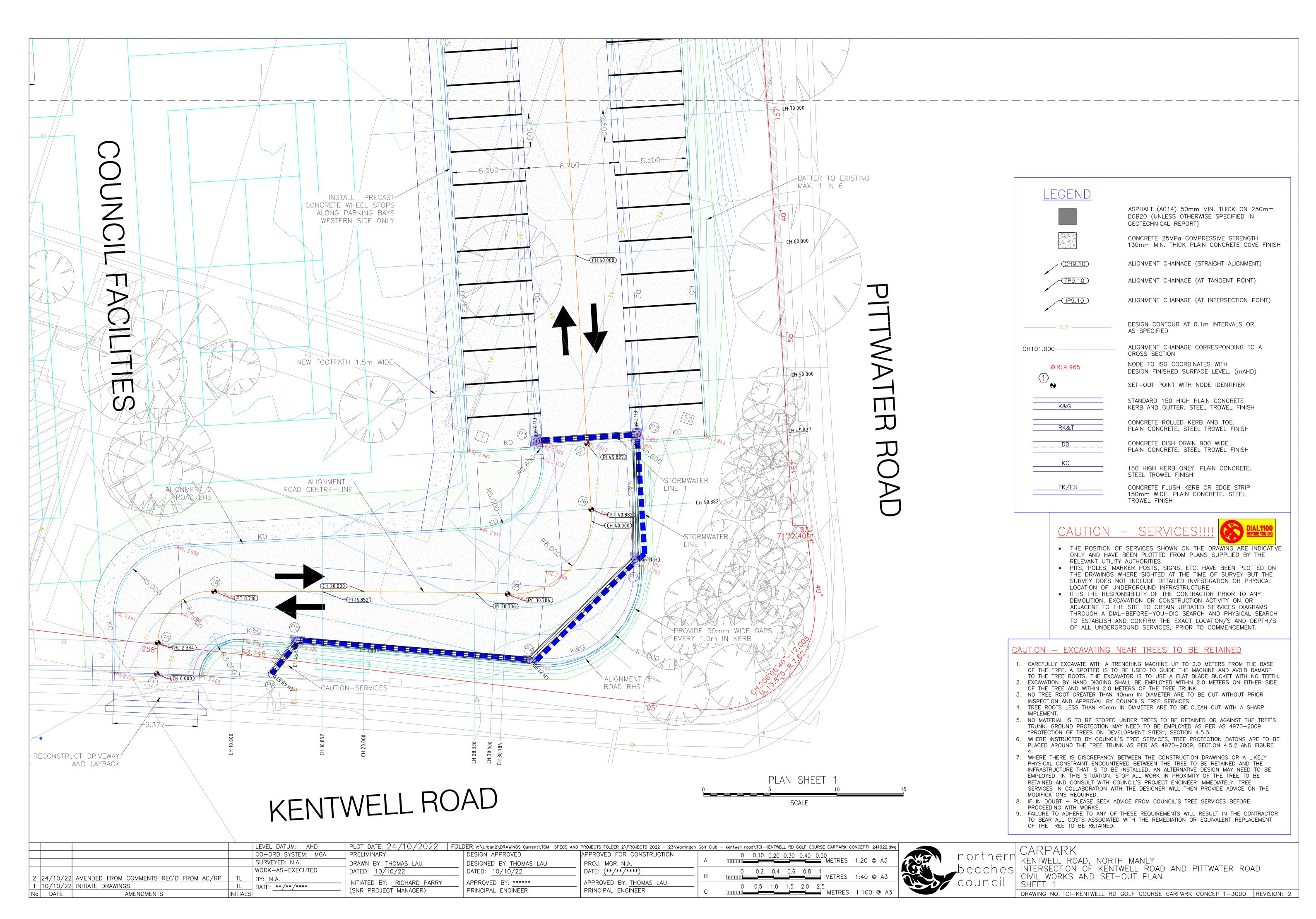
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		CO-ORD SYSTEM: MGA	PRELIMINARY	DESIGN APPROVED	APPROVED FOR CONSTRUCTION		0 0.10 0.20 0.30 0.40 0.50 METRES 1:20 @ A3
		SURVEYED: N.A.	DRAWN BY: THOMAS LAU	DESIGNED BY: THOMAS LAU	PROJ. MGR: N.A.	_ ^	
	04 /40 /00 4454959 5904 00445450 55079 5904 40 /99	WORK-AS-EXECUTED	DATED: <u>10/10/22</u>	DATED: <u>10/10/22</u>	DATE: <u>(**/**/****)</u>	_	0 0.2 0.4 0.6 0.8 1
	24/10/22 AMENDED FROM COMMENTS REC'D FROM AC/RP	TL BY: N.A.	- INITIATED BY: RICHARD PARRY	APPROVED BY: *****	APPROVED BY: THOMAS LAU		
No	10/10/22 INITIATE DRAWINGS DATE AMENDMENTS	TL DATE: <u>**/**/****</u> INITIALS	- (SNR PROJECT MANAGER)	PRINCIPAL ENGINEER	PRINCIPAL ENGINEER	_ c	0 0.5 1.0 1.5 2.0 2.5

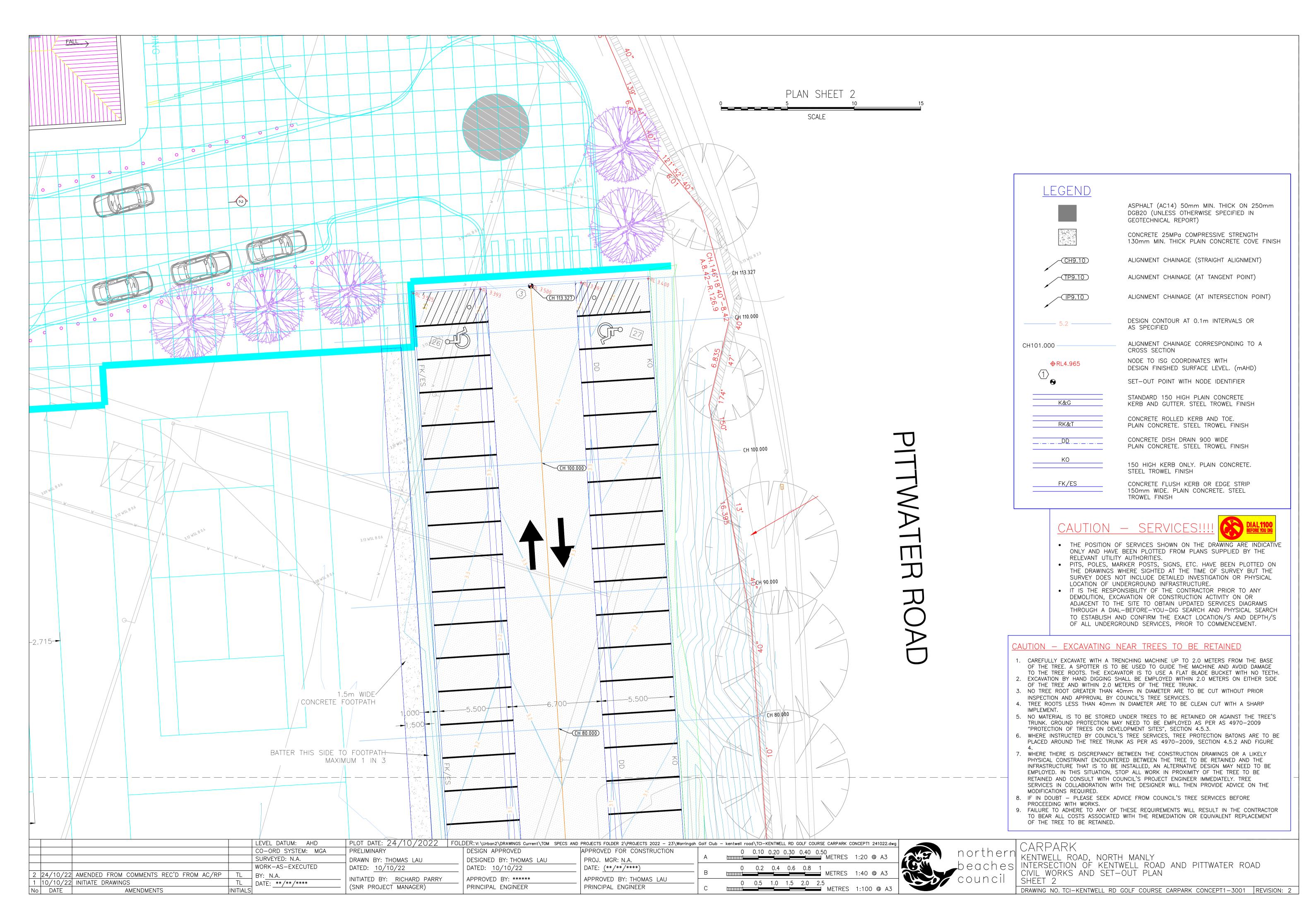


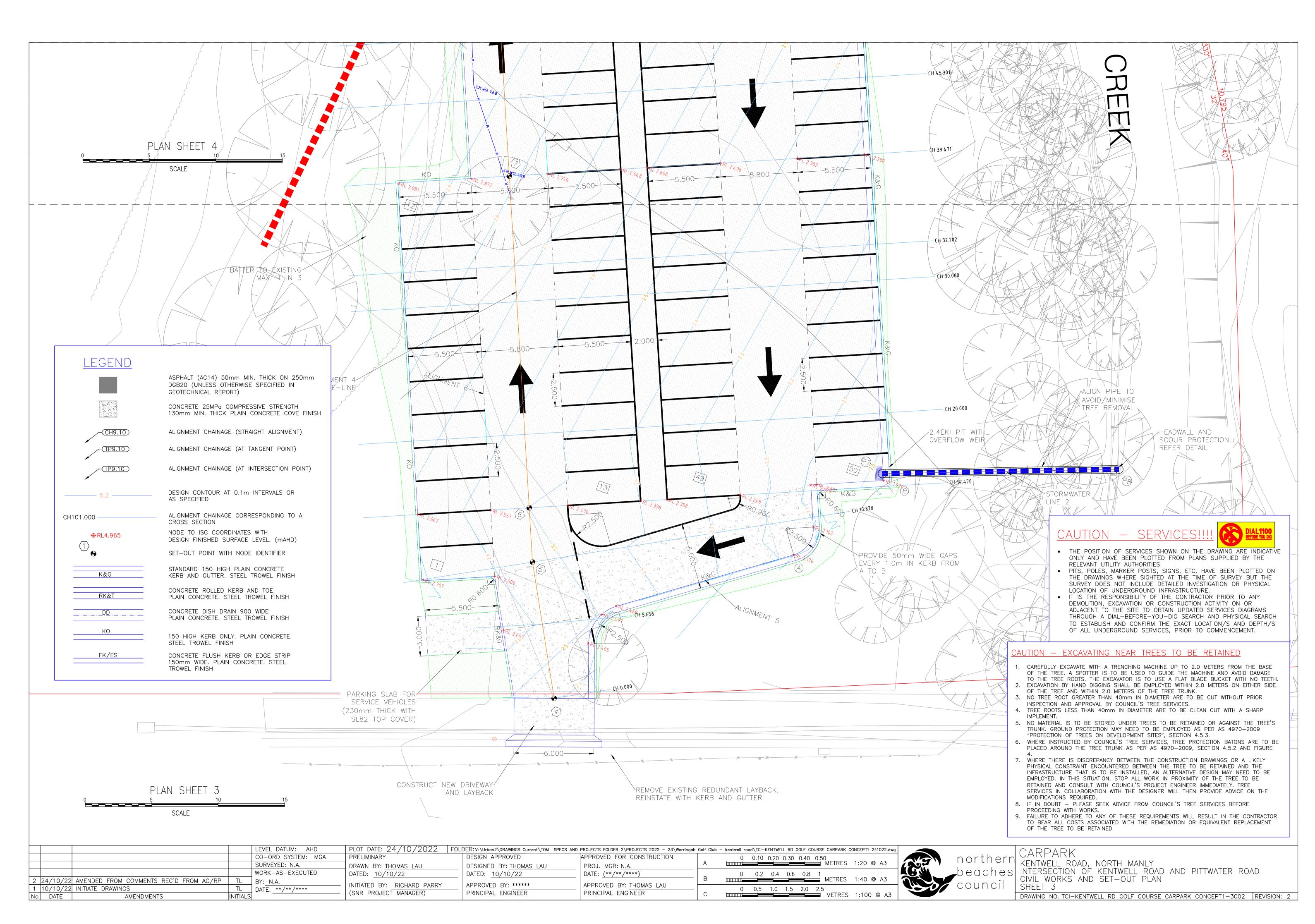
northern CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD INDEX SHEET COVER SHEET

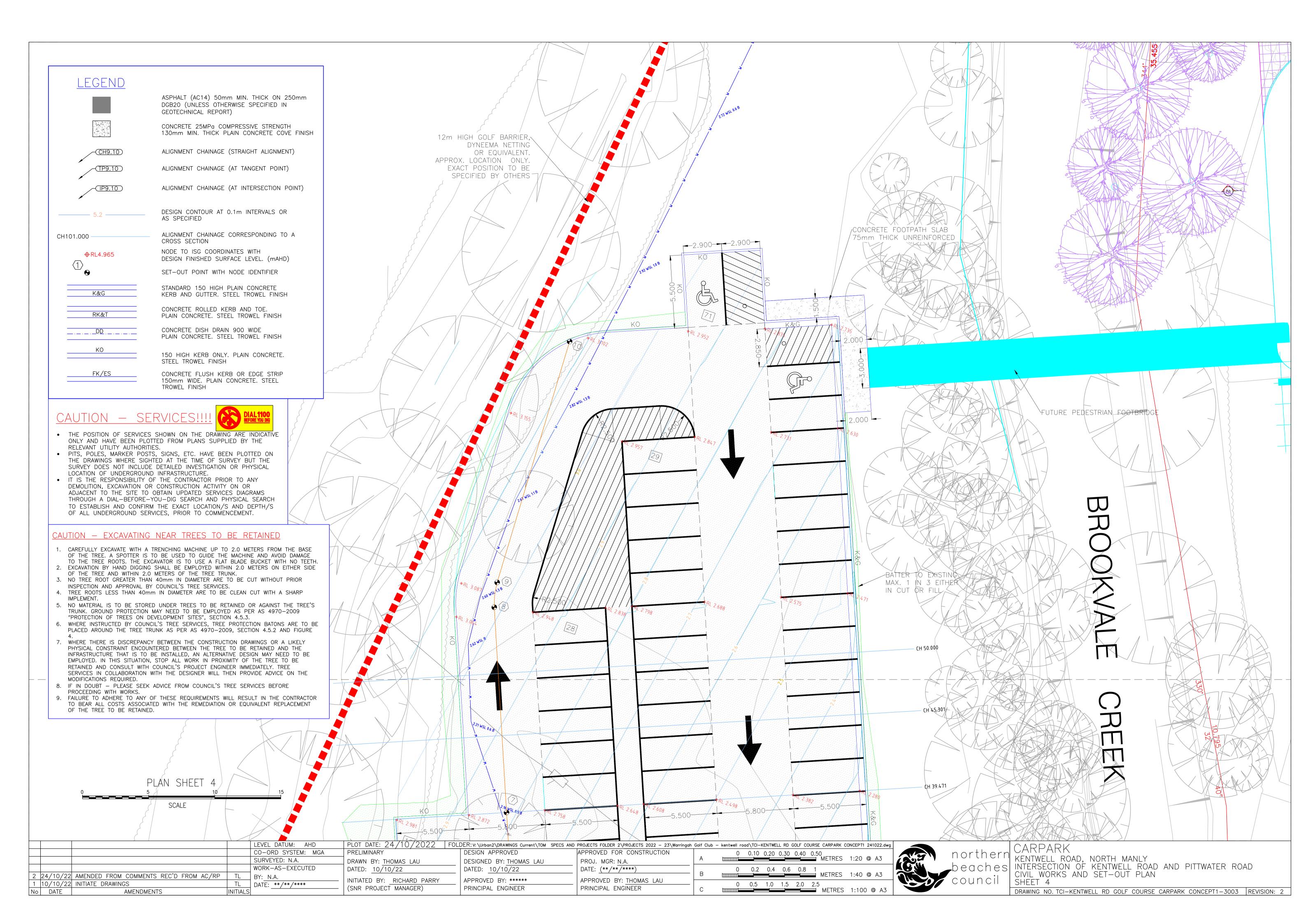
DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-1000 | REVISION: 2













0.80%

 $\langle 1 \rangle$ $\langle 1 A \rangle$

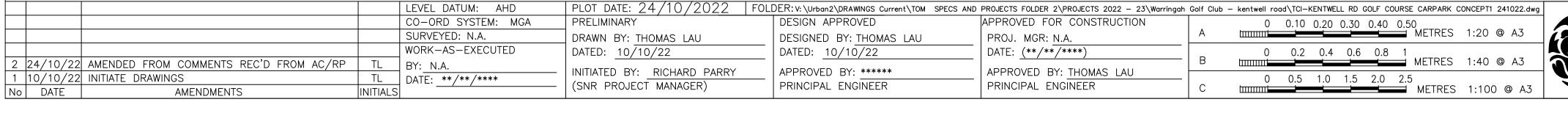
DATUM 0.00

CUT/FILL DEPTH

DESIGN LEVEL

0.93%

0.193 0.214 0.231 (3) _____0.260



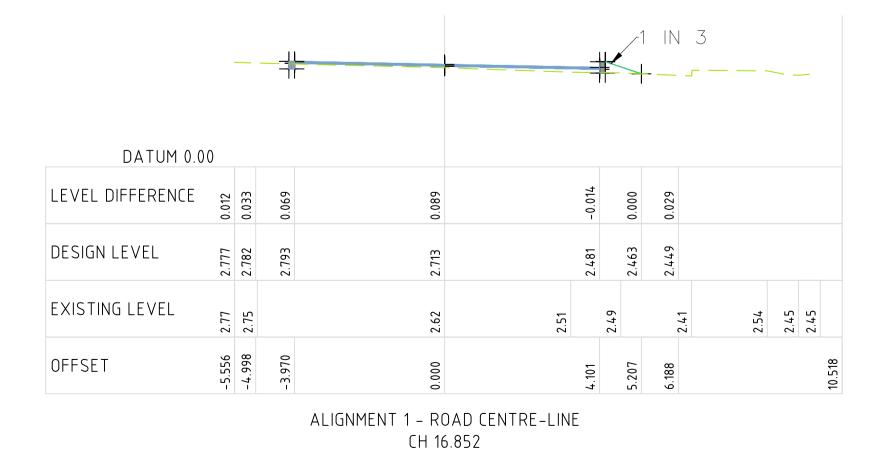
CH 0.000

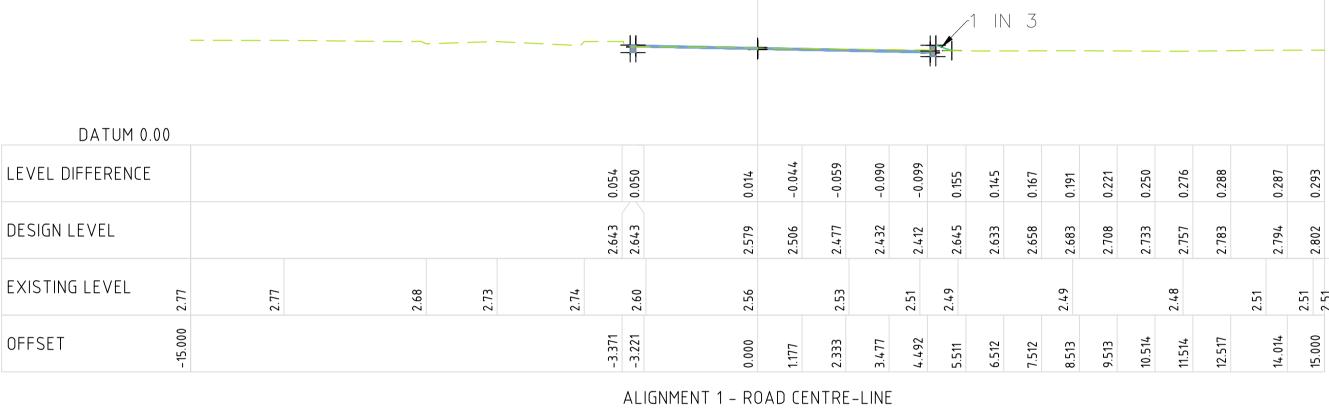
_1 IN 3

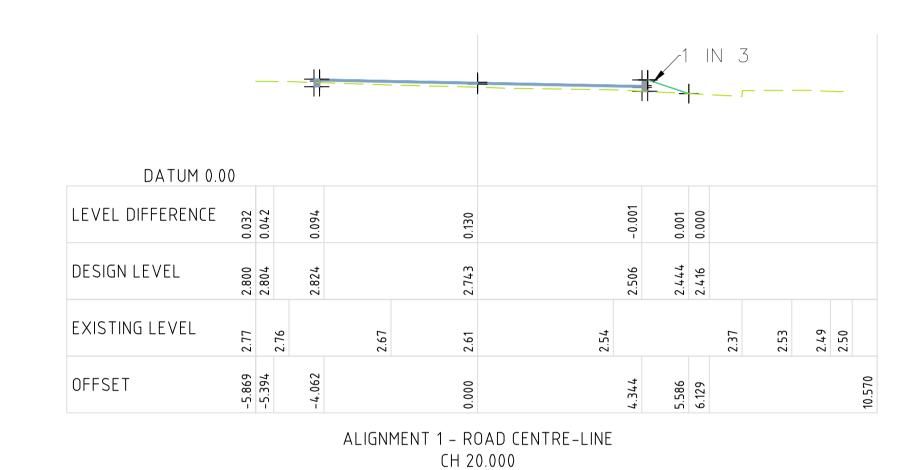


northern beaches council CARPARK road, north manly intersection of kentwell road and pittwater road cross sections - alignment 1 sheet 1 DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-5000 REVISION: 2

							11		71								
DATUM 0	.00																
LEVEL DIFFERENCE	Ξ						0.005	0.000	-0.193								
DESIGN LEVEL							2.621	2.557	2.343								
EXISTING LEVEL	2.62	2.63	2.64	2.65	2.64	2.70	2.58			2.57	2.58	2.54	2.55	2.58	2.56	2.42	0.0
OFFSET	-15.000						-3.336	0000	3.191	·	·				<u>'</u>		7,000
								GNMENT 1 – R									







	_		 ~		- — ~	- - 							1 IN	3							
						711					7										
DATUM 0.00	0																				
LEVEL DIFFERENCE						0.054	0.014	770.0-	-0.059	-0.090	-0.099	0.155	0.145	0.167	0.191	0.221	0.250	0.276	0.288	0.287	0.293
DESIGN LEVEL						2.643	2.579	2.506	2.477	2.432	2.412	2.645	2.633	2.658	2.683	2.708	2.733	2.757	2.783	2.794	
EXISTING LEVEL	2.77	2.77	2.68	2.73	2.74	260	2.56		2.53		2.51	2.49			2.49			2.48		2.51	2.51
OFFSET	-15.000	1	,	·	,	-3.371	0.00.0	1.177	2.333	3.477	4.492	5.511	6.512	7.512	8.513	9.513	10.514	11.514	12.517	14.014	

ALIGNMENT 1 – ROAD CENTRE-LINE CH 28.336

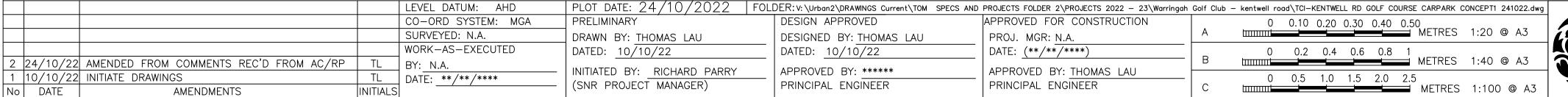
	_			_				=		/1 .— ·	IN —	3			— 、	
DATUM 0.0	0															
LEVEL DIFFERENCE	-0.069	-0.048	-0.018	5	0.00			-0.079		-0.140	-0.081	-0.076				
DESIGN LEVEL	2.723	2.720	2.721	C C	7.650			2.427		2.491	2.526	2.522				
EXISTING LEVEL	2.79			L C	C0.7	2.61	2.55		2.48	2.63		2.58	(2.53	2.48	2.41
OFFSET	-5.674	-4.733	-3.549		0.000	·	,	3.646		5.132	6.163	6.287				10.523

ALIGNMENT 1 – ROAD CENTRE-LINE

CH 10.000

CH 2.334

									=		 	N 3 — –			_
DATUM 0.0	٥										'				
LEVEL DIFFERENCE	0.244	0.243				0.193	0.141		690.0	0.000	0.002				
DESIGN LEVEL	2.940 0	2.904 0				2.820 0	2.723 0		2.575 0	2.426 0					
EXISTING LEVEL	2.70		2.70	2.81	2.81	2.63		2.55	2.50			2.64	2.62	2.60	2.60
OFFSET	-6.731	-4.212		·		0.00.0	1.943		4.942	6.489	6.497	'	'		11.019





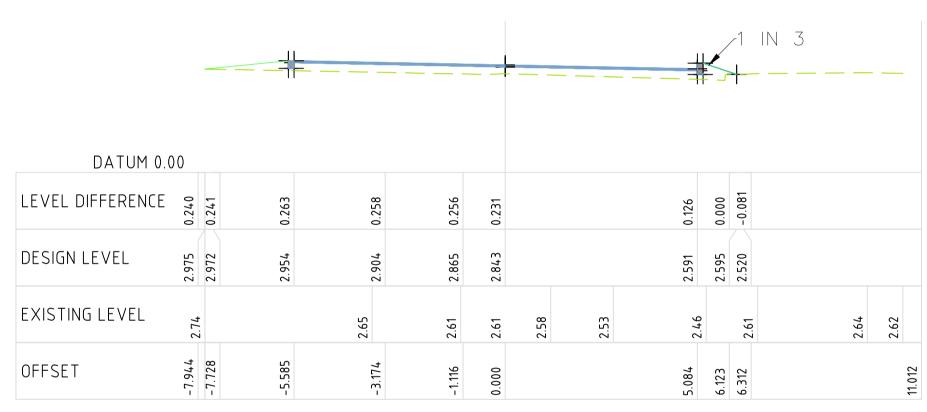
northern CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD CROSS SECTIONS - ALIGNMENT 1 SHEET 2

DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-5001 | REVISION: 2

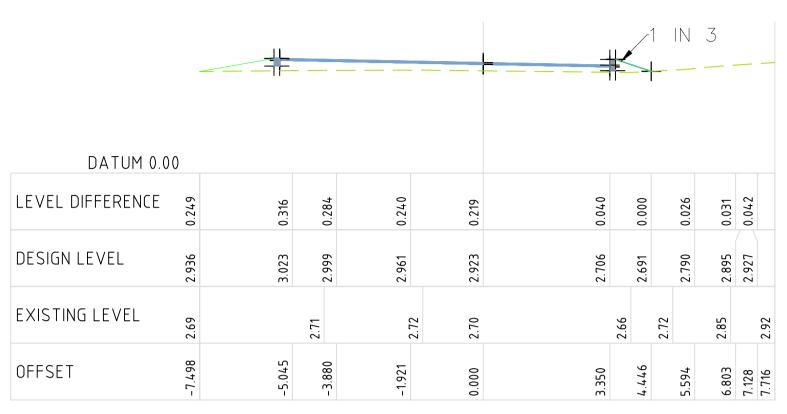
ALIGNMENT	1 - ROAD CENTRE-LINE	
	CH 30.000	

							_		~1	IN 3			
		11					 _ =		-				_
DATUM 0.0	0												
LEVEL DIFFERENCE	0.243	0.260				0.214	0.106	0.000	-0.107				
DESIGN LEVEL	2.953	2.938				2.835	2.584	2.568	2.483				
EXISTING LEVEL	2.72		2.65	2.63	2.61	2.62	2.47		2.59	2.63	2.64	2.61	2.61
OFFSET	-7.210	-5.155				0.000	5.056	6.155	6.391				10.047

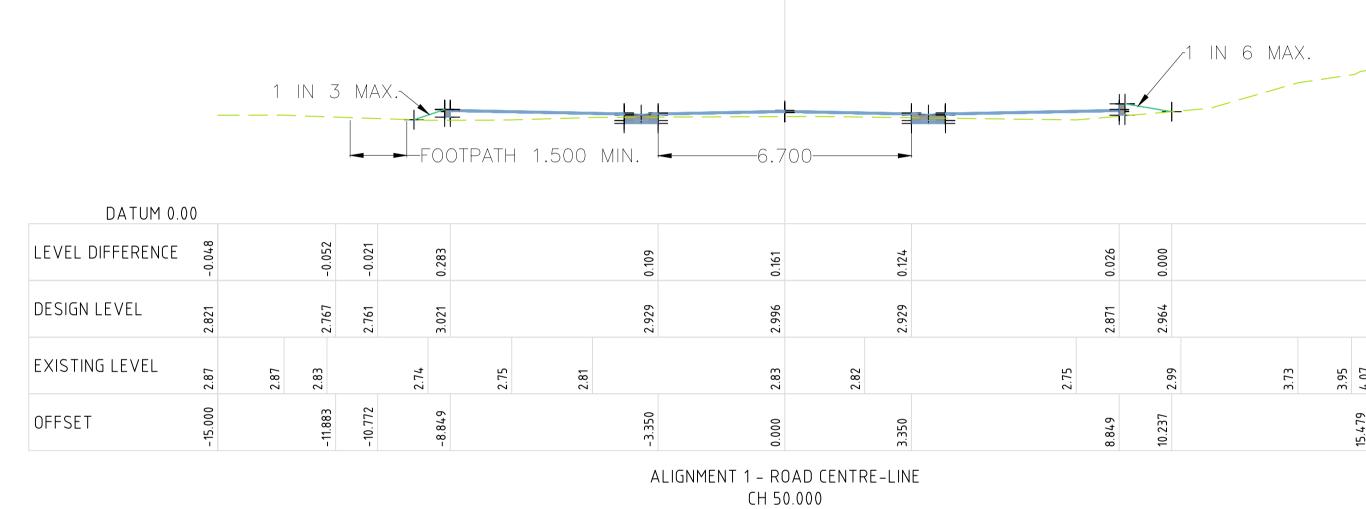
ALIGNMENT 1 - ROAD CENTRE-LINE CH 30.784

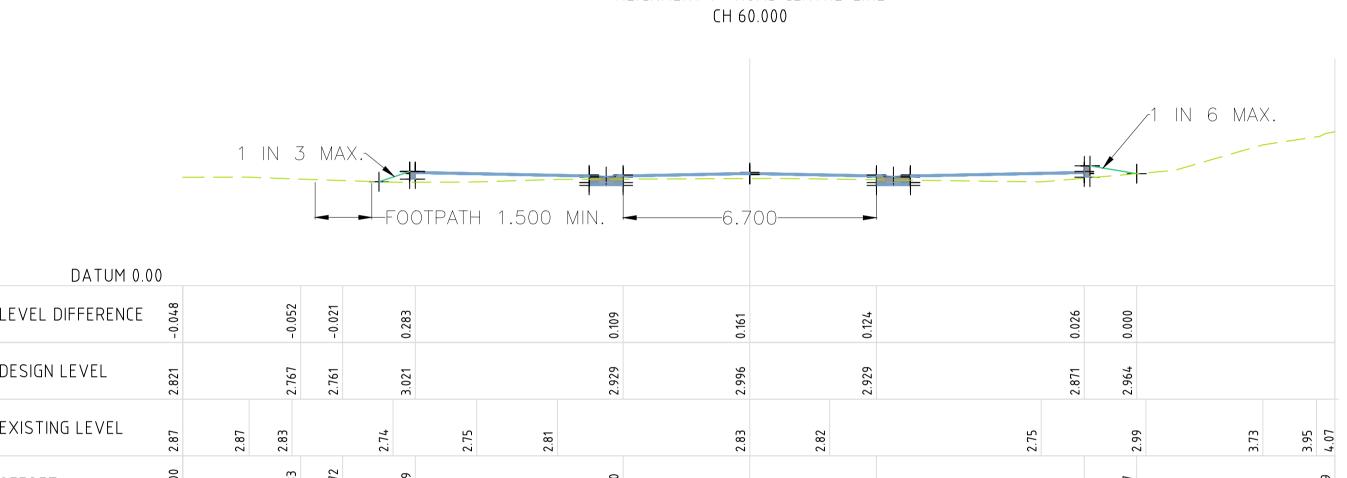


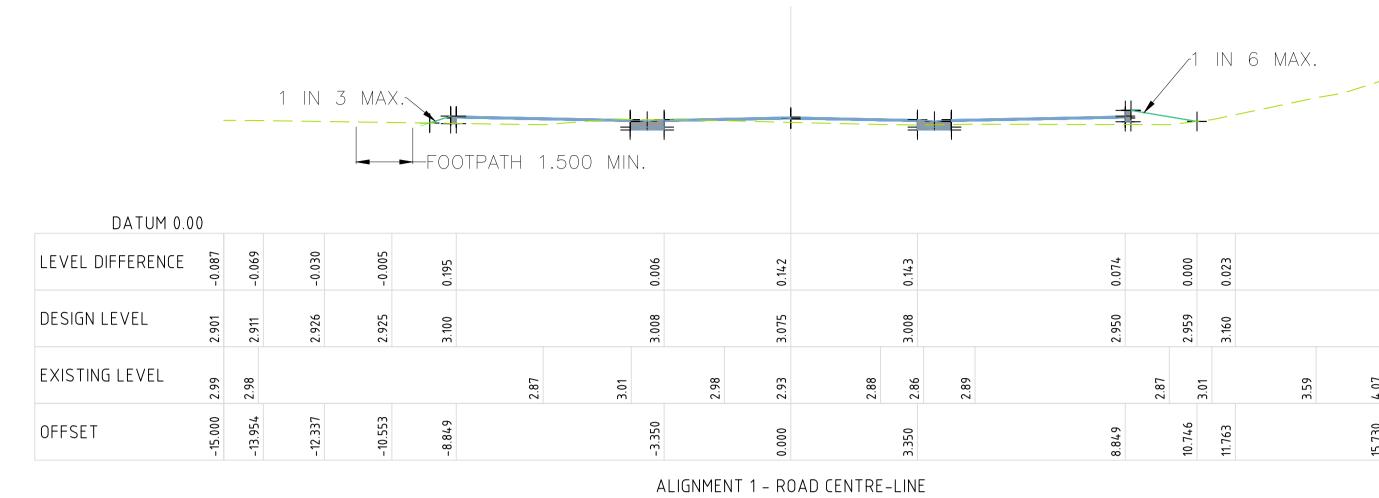
ALIGNMENT 1 – ROAD CENTRE-LINE CH 40.882

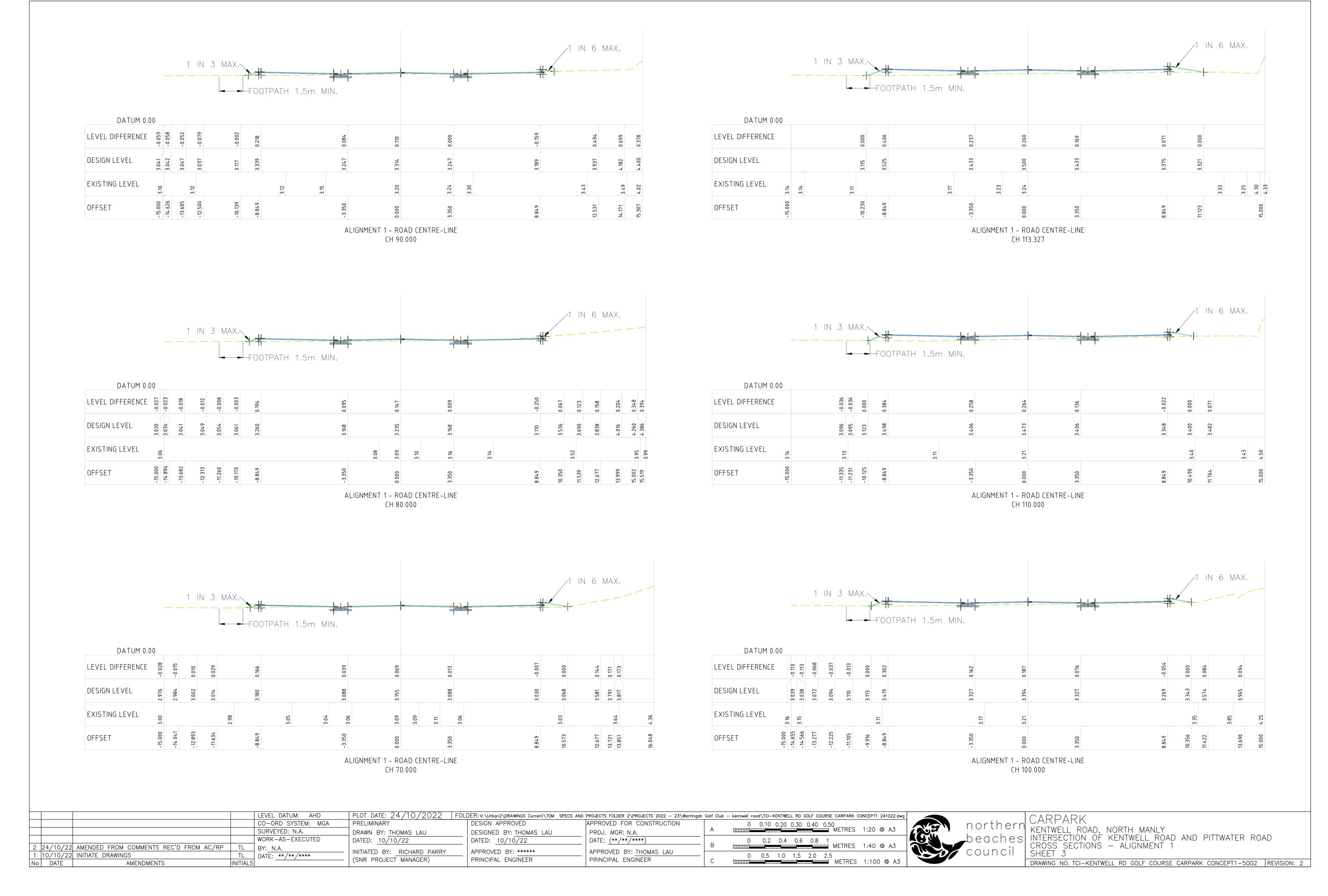


_1 IN 6 MAX. FOOTPATH 1.500 MIN. DATUM 0.00 -0.109 DESIGN LEVEL EXISTING LEVEL 2.71 -15.000 -14.157 -13.130 -12.096 -11.047 -9.972 OFFSET 8.849 ALIGNMENT 1 - ROAD CENTRE-LINE CH 45.827

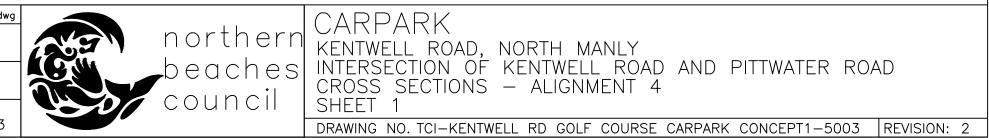






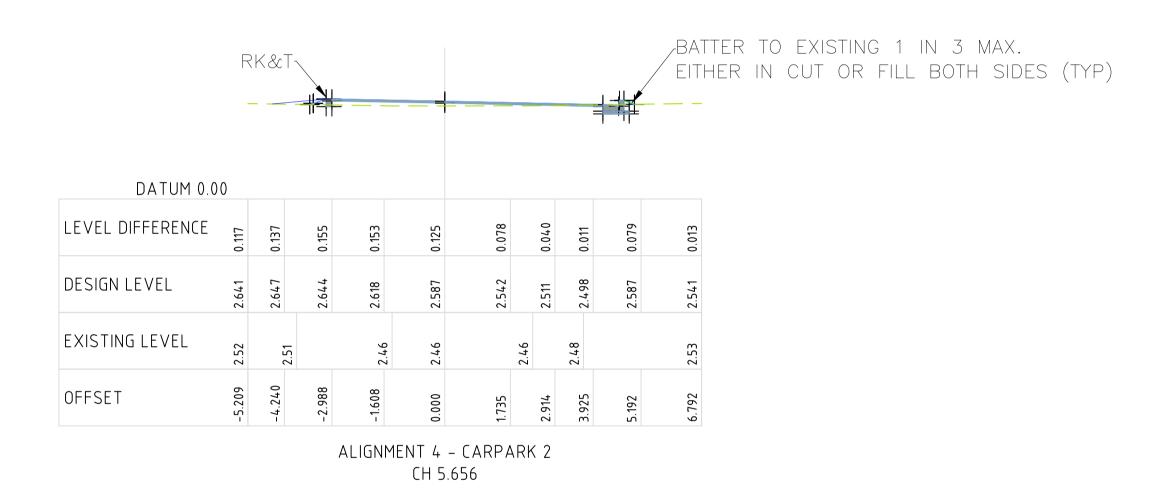


				LEVEL DATUM: AHD	PLOT DATE: 24/10/2022	.DER: V: \Urban2\DRAWINGS Current\TOM SPECS AND	PROJECTS FOLDER 2\PROJECTS 2022 - 23\Warringah	Golf Club	- kentwell road\TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1 241022.dwg	
				CO-ORD SYSTEM: MGA	PRELIMINARY	DESIGN APPROVED	APPROVED FOR CONSTRUCTION		0 0.10 0.20 0.30 0.40 0.50 METRES 1:20 @ A3	A
				SURVEYED: N.A.	DRAWN BY: THOMAS LAU	DESIGNED BY: THOMAS LAU	PROJ. MGR: N.A.	Α	METRES 1:20 @ A3	.2
				WORK-AS-EXECUTED	DATED: 10/10/22	DATED: 10/10/22	DATE: (**/**/***)		0 0.2 0.4 0.6 0.8 1 	16
2	24/10/22	AMENDED FROM COMMENTS REC'D FROM AC/RP	TL	BY: N.A.			ADDDOVED DV. THOMAS LAH	В	METRES 1:40 @ A3	\mathcal{J}_{i}
1	10/10/22	INITIATE DRAWINGS	TL	DATE: **/**/***	INITIATED BY: RICHARD PARRY	APPROVED BY: *****	APPROVED BY: THOMAS LAU	_	0 0.5 1.0 1.5 2.0 2.5	Í.
Νo	DATE	AMENDMENTS	INITIALS		(SNR PROJECT MANAGER)	PRINCIPAL ENGINEER	PRINCIPAL ENGINEER	С	METRES 1:100 @ A3	

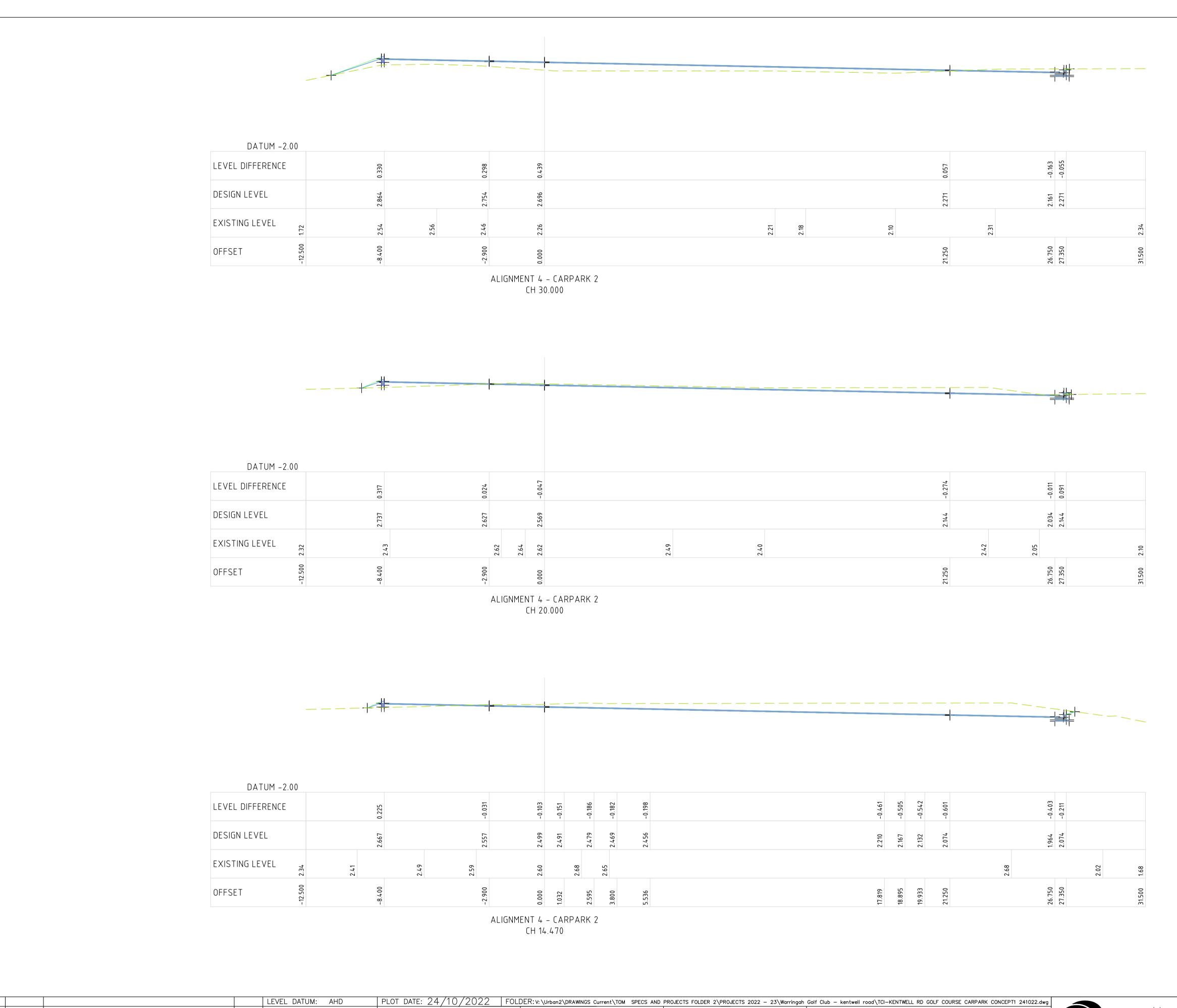


northern CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD CROSS SECTIONS - ALIGNMENT 4 SHEET 1

RK8	kT_						
	_	#	_			 	
DATUM 0.0	0						
LEVEL DIFFERENCE	0.019	0.015	0.000	-0.101	0.002		
DESIGN LEVEL	2.506	2.487	2.418	2.366	2.476		
EXISTING LEVEL	2.49		2.42	176	1 + : 7	2.47	2.47
OFFSET	-3.883	-2.796	0.000	2.608	3.208		4.288
			ALIGNMENT 4 CH 0		2		



	4		+												=======================================	
DATUM -2.00																
LEVEL DIFFERENCE			0.091	0.010	-0.035	-0.105		-0.276	-0.337		-0.532	-0.573	-0.624	-0.652	769.0-	-0.590
DESIGN LEVEL	2.712		2.598	2.540	2.512	2.487		2.400	2.385		2.253	2.207	2.153	2.119	2.073	2.171
EXISTING LEVEL		2.54	2.51	2.53	2.55	2.61	2.64			2.79						2.76
	-8.422		-2.914	0.000	1.485	2.823		7.190	6.447		15.989	17.633	18.913	20.655	21.804	23.501



DESIGN APPROVED

DATED: 10/10/22

APPROVED BY: *****

PRINCIPAL ENGINEER

DESIGNED BY: THOMAS LAU

APPROVED FOR CONSTRUCTION

APPROVED BY: THOMAS LAU

PRINCIPAL ENGINEER

PROJ. MGR: N.A.
DATE: (**/**/****)

CO-ORD SYSTEM: MGA

WORK-AS-EXECUTED

SURVEYED: N.A.

BY: N.A.

INITIALS

TL DATE: **/**/***

2 24/10/22 AMENDED FROM COMMENTS REC'D FROM AC/RP

AMENDMENTS

1 10/10/22 INITIATE DRAWINGS

No DATE

PRELIMINARY

DRAWN BY: THOMAS LAU

(SNR PROJECT MANAGER)

INITIATED BY: RICHARD PARRY

DATED: 10/10/22

0 0.10 0.20 0.30 0.40 0.50

METRES 1:20 @ A3

0 0.2 0.4 0.6 0.8 1

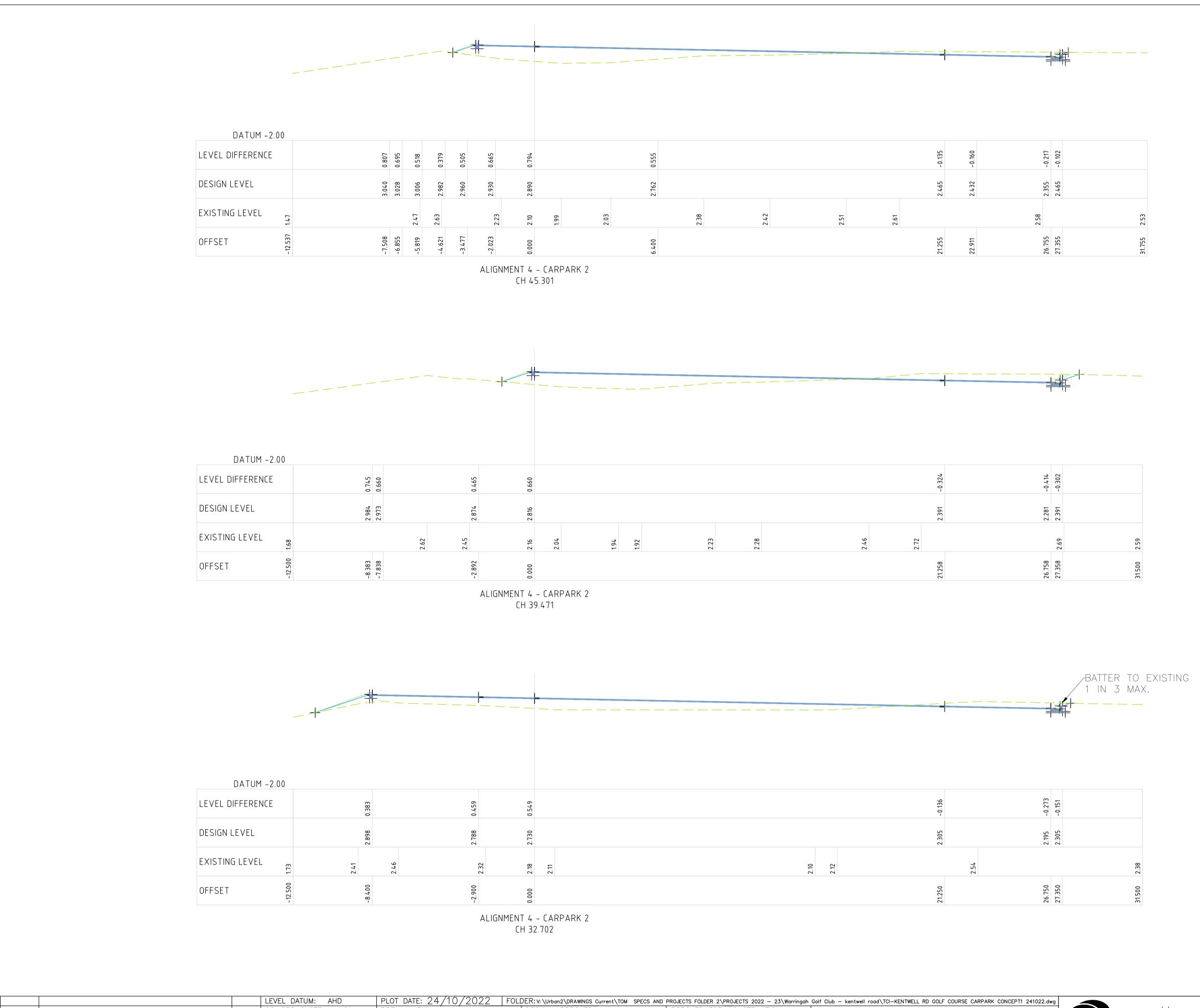
METRES 1:40 @ A3

0 0.5 1.0 1.5 2.0 2.5

METRES 1:100 @ A3

northern beaches council CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD CROSS SECTIONS — ALIGNMENT 4 SHEET 2

DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-5004 REVISION: 2



DESIGN APPROVED

DATED: 10/10/22

APPROVED BY: *****

PRINCIPAL ENGINEER

DESIGNED BY: THOMAS LAU

APPROVED FOR CONSTRUCTION

APPROVED BY: THOMAS LAU

PRINCIPAL ENGINEER

PROJ. MGR: <u>N.A.</u>
DATE: <u>(**/**/****)</u>

CO-ORD SYSTEM: MGA

WORK-AS-EXECUTED

SURVEYED: N.A.

BY: N.A.

INITIALS

TL DATE: **/**/***

2 24/10/22 AMENDED FROM COMMENTS REC'D FROM AC/RP

AMENDMENTS

1 10/10/22 INITIATE DRAWINGS

No DATE

PRELIMINARY

DRAWN BY: THOMAS LAU

(SNR PROJECT MANAGER)

INITIATED BY: RICHARD PARRY

DATED: 10/10/22



northern CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD CROSS SECTIONS - ALIGNMENT 4 SHEET 3

DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-5005 REVISION: 2

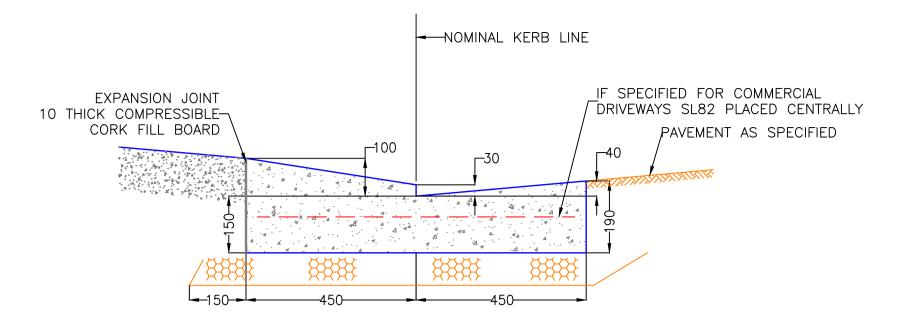
			LEVEL DATUM: AHD	PLOT DATE: 24/10/2022	DER : V: \Urban2\DRAWINGS Current\TOM SPECS AND	PROJECTS FOLDER 2\PROJECTS 2022 $-$ 23\Warringah	Golf Club	- kentwell road\TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1 241022.dwg
			CO-ORD SYSTEM: MGA	PRELIMINARY	DESIGN APPROVED	APPROVED FOR CONSTRUCTION		0 0.10 0.20 0.30 0.40 0.50 METRES 1:20 @ A3
			SURVEYED: N.A.	DRAWN BY: THOMAS LAU	DESIGNED BY: THOMAS LAU	PROJ. MGR: N.A.	Α	METRES 1:20 @ A3
			WORK-AS-EXECUTED	DATED: 10/10/22	DATED: 10/10/22	DATE: (**/**/****)		0 0.2 0.4 0.6 0.8 1
_ 2	2 24/10/22	AMENDED FROM COMMENTS REC'D FROM AC/RP TL	BY: N.A.	INITIATED DV: DICHARD DARRY	APPROVED BY: *****	ADDDOVED DV. THOMAS I ALL	B	METRES 1:40 @ A3
1	10/10/22	NITIATE DRAWINGS TL	DATE: **/**/	INITIATED BY: RICHARD PARRY (SNR PROJECT MANAGER)		APPROVED BY: THOMAS LAU PRINCIPAL ENGINEER		0 0.5 1.0 1.5 2.0 2.5
N	o DATE	AMENDMENTS INITIAL	S	(SINK PROJECT MANAGER)	PRINCIPAL ENGINEER	PRINCIPAL ENGINEER	C	METRES 1:100 @ A3

CH 50.000

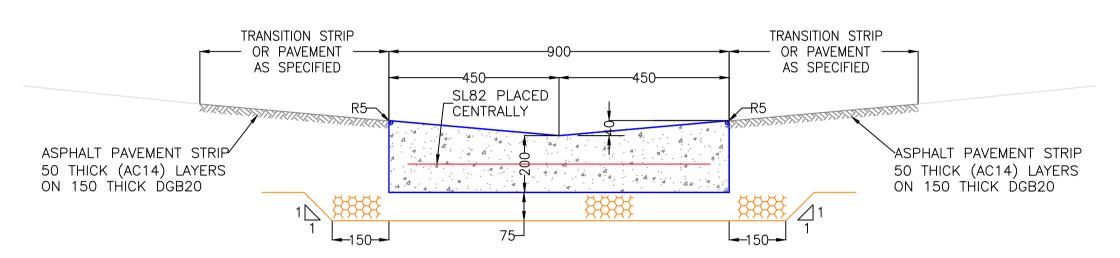


northern CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD CROSS SECTIONS - ALIGNMENT 4 SHEET 4 DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-5006 REVISION: 2

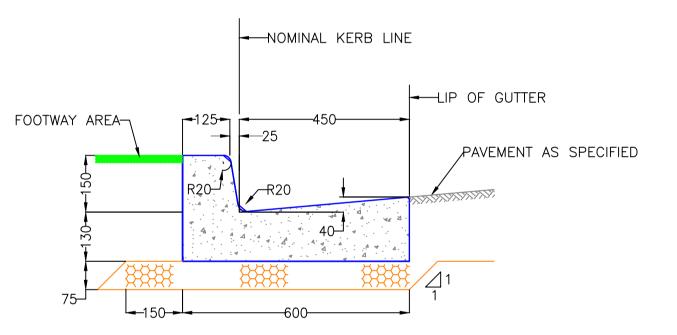
		- — .				 		 		+-		
											1 "	
DATUM -2.00												
LEVEL DIFFERENCE	7 -	9/	0 7	15	77					760.0	51	
LEVEL DIFFERENCE	0.364	0.376	0.440	0.515	0.624					-0.(-0.151	
DESIGN LEVEL	3.086 0.36		3.032 0.4	3.007 0.5	2.950 0.6.					2.524 -0.0	2.414 -0.1	
					2.950	2.26	2.43	2.52	2.58			2.52



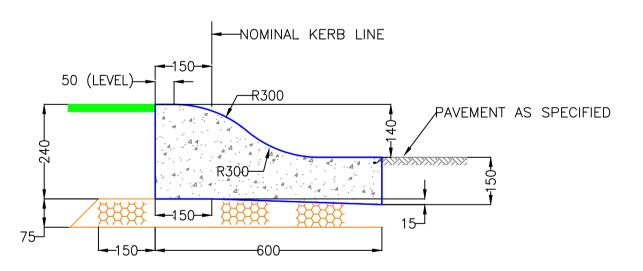
CONCRETE DRIVEWAY LAYBACK DETAIL SCALE - NOT TO SCALE (0.173cum/m)



CONCRETE DISH DRAIN DETAIL (DD) SCALE - NOT TO SCALE (0.153cum/m)

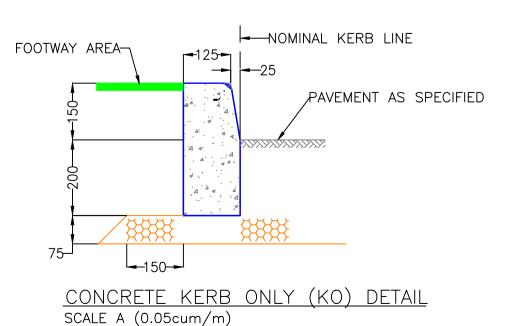


STANDARD 150 HIGH CONCRETE KERB & GUTTER (K&G) DETAIL SCALE - NOT TO SCALE (0.108cum/m)



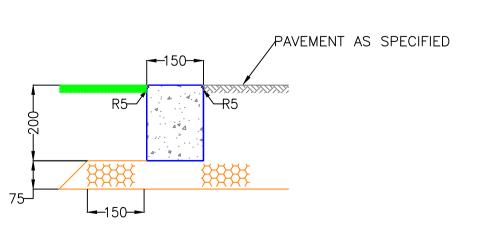
CONCRETE ROLLED KERB AND TOE (RK&T) DETAIL SCALE A (0.052cum/m)

INITIALS



AMENDMENTS

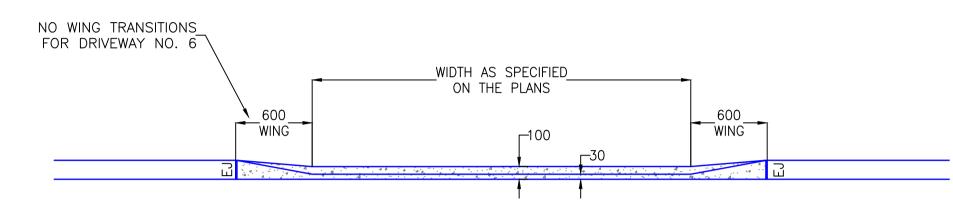
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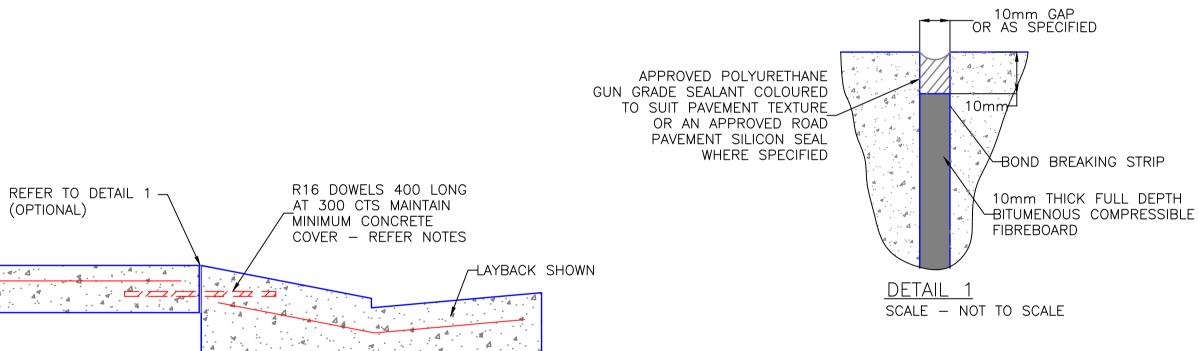
CONCRETE FLUSH KERB (FK/ES) DETAIL SCALE A (0.030 cum/m)NOTE: TO BE USED FOR ROAD EDGING

WIDTH AS SPECIFIED 600 STANDARD ON THE PLANS KERB AND GUTTER-OR EDGING AS SPEC. KERB LINE

CONCRETE LAYBACK — PLAN SCALE - NOT TO SCALE



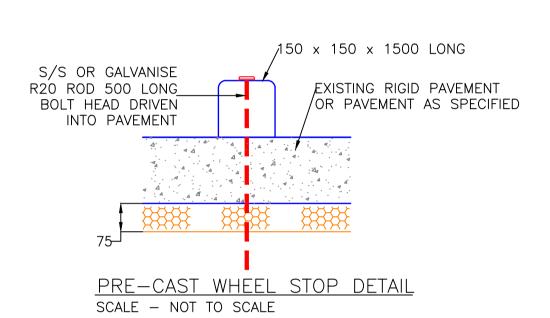
CONCRETE LAYBACK — FRONT ELEVATION SCALE - NOT TO SCALE

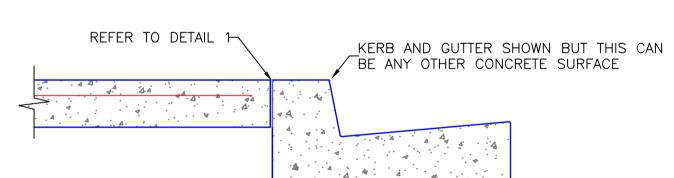


LONGITUDINAL JOINT (LJ) DETAIL SCALE - NOT TO SCALE NOTE: DOWEL INSTALLATION ONLY REQUIRED WHERE NOTED

STANDARD KERB AND GUTTER NOTES

- 1. KERB AND GUTTER, CONCRETE EDGING, DISH DRAINS AND THE LIKE SHALL BE POURED IN PLAIN CONCRETE AND FINISHED WITH A STEEL
- 2. THE MINIMUM COMPRESSIVE STRENGTH SHALL BE
- 25MPa AT 28 DAYS. 3. FOR ELEMENTS CONTRUCTED USING SLIPFORM, REINFORCEMENT WILL NOT BE REQUIRED PROVIDED THAT THE CONCRETE COMPRESSIVE STRENGTH IS NOT LESS THAN 32MPa AT 28 DAYS.
- 4. WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE RETAINED, THE CONTRACTOR SHALL PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
- 5. WHERE EXISTING KERB AND ASSOCIATED ELEMENT IS TO BE REPLACED SAW CUT IN THE ASPHALT MINIMUM 500mm FROM LIP OF GUTTER, COMPACT SUBGRADE AND INSTALL ASPHALT STRIP TO MAKE SMOOTH TRANSITION.
- 6. THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS WITHIN THE ROAD RESERVE MUST BE UNDERTAKEN BY A COUNCIL APPROVED CONTRACTOR.





ISOLATION JOINT (IJ) DETAIL SCALE - NOT TO SCALE

VEHICLE CROSSING CONSTRUCTION NOTES

- 1. AT LEAST 48 HOURS' NOTICE OF INTENTION SHALL BE GIVEN TO COUNCIL ENGINEER TO POUR CONCRETE WITHIN THE ROAD RESERVE AND
- NO CONCRETE SHALL BE PLACED UNTIL THE FORMWORK HAS BEEN APPROVED AND AN INSPECTION NOTICE ISSUED. 2. ALL DISTURBED AREAS OF THE FOOTWAY ADJACENT TO THE VEHICLE CROSSING SHALL BE TURFED AND FINISHED LEVEL WITH THE
- CONCRETE SURFACE. RAISED EDGES ARE UNACCEPTABLE. 3. THE ROAD ADJOINING THE VEHICLE CROSSING SHALL BE BATTERED AND TURFED AT A MAXIMUM GRADIENT OF 1V:6H OR AS DIRECTED BY
- 4. CONCRETE FOOTPATH ADJUSTMENTS SHALL BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION AND SATISFACTION. 5. THE SUBGRADE MUST BE THOROUGHLY COMPACTED BY THE USE OF VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF
- MOVEMENT, OR AS DIRECTED BY COUNCIL.
- 6. VEHICLE CROSSING SLABS MUST BE POURED IN PLAIN CONCRETE. SLAB SURFACE MUST BE COVE FINISHED (OR EQUIVALENT) AND EDGES TO BE FINISHED WITH A 50mm MARGIN.
- 7. ALL CHANGES IN GRADE SHALL BE SCREEDED TO ENSURE NO RIGID/SHARP TRANSITIONS.
- 8. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25MPa AT 28 DAYS.
- 9. THE MINIMUM THICKNESS OF CONCRETE SHALL BE AS FOLLOWS:
- (a) SINGLE RESIDENTIAL DWELLING: 130mm THICK REINFORCED WITH SL72 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB (b) MULTI-UNIT RESIDENTIAL: 150mm THICK REINFORCED WITH SL82 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB
- (c) COMMERCIAL OR INDUSTRIAL: 180mm THICK REINFORCED WITH SL82 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB
- 10. THE VEHICLE CROSSING UP TO 2400mm FROM THE GUTTER INVERT SHALL BE GRADED PARALLEL WITH THE ROAD CENTRELINE 11. THE VEHICLE CROSSING SHALL BE CONSTRUCTED PERPENDICULAR TO THE ROAD PAVEMENT UNLESS OTHERWISE INSTRUCTED BY COUNCIL.
- 12. THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS ON THE ROAD RESERVE MUST BE COMPLETED BY A COUNCIL APPROVED CONCRETE CONTRACTOR.
- 13. NO TREE ROOTS GREATER THAN 50mm IN DIAMETER ARE TO BE REMOVED UNLESS AUTHORISED BY A QUALIFIED ARBORIST.
- 14. ANY ROOTS APPROVED FOR REMOVAL SHALL BE CLEAN CUT WITH SHARP TOOLS SUCH AS SECATEURS, PRUNERS, HANDSAWS, CHAINSAWS OR SPECIALISED ROOT PRUNING EQUIPMENT

CONCRETE DRIVEWAY NOTES

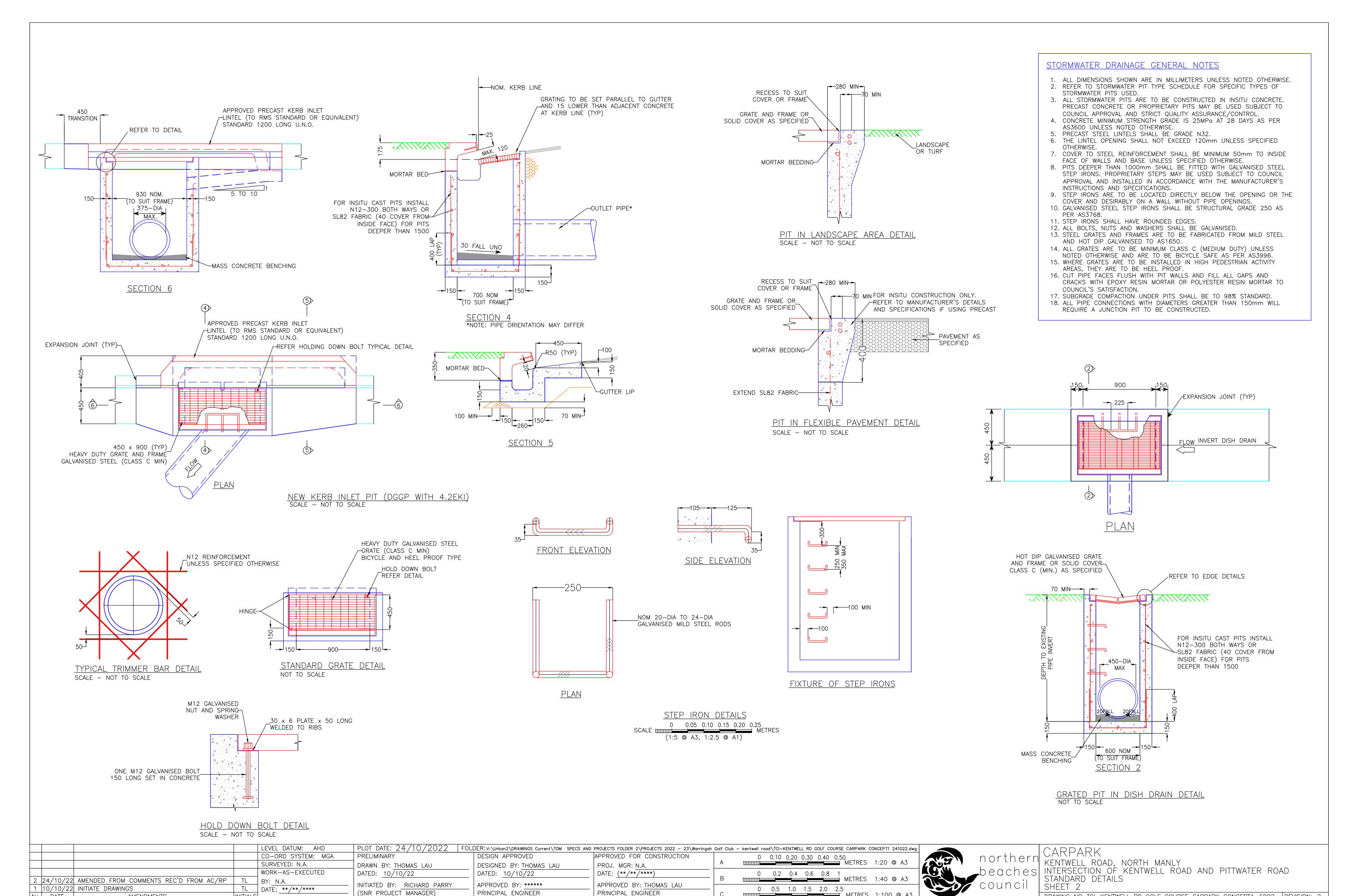
- 1. LAYBACK AND GUTTER SHALL BE CONSTRUCTED IN PLAIN CONCRETE AND FINISHED WITH A STEEL TROWEL.
- 2. THE MINIMUM COMPRESSIVE STRENGTH FOR DRIVEWAYS SHALL BE 25MPa AT 28 DAYS. FOR COMMERCIAL OR INDUSTRIAL DRIVEWAYS THE SLAB DEPTH SHALL BE INCREASED TO MINIMUM OF 180mm WITH SL82 STEEL MESH AND TOP COVER OF
- 3. THE SUBGRADE SHALL BE EVENLY COMPACTED USING A VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF MOVEMENT, OR AS DIRECTED BY COUNCIL
- 4. ALL VEHICLE CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LEVELS AND SPECIFICATION ISSUED BY COUNCIL AND MUST COMPLY WITH AS/NZS 2890.1:2004 "OFF STREET CAR PARKING" CODE.
- 5. ALL KERBING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS
- AND SPECIFICATION ISSUED BY COUNCIL. 6. WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE RETAINED, THE CONTRACTOR IS TO PLACE A 75mm DEEP SAW CUT IN THE GUTTER
- INVERT AND REMOVE THE KERB AND/OR LAYBACK. 7. WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE REMOVED, A ROAD OPENING PERMIT OR APPLICATION IS TO BE OBTAINED PRIOR TO
- COMMENCEMENT OF WORKS. 8. THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS MUST BE
- PERFORMED BY A COUNCIL APPROVED CONTRACTOR. 9. SAWCUT 500mm ASPHALT STRIP AND MATCH IN LAYBACK WITH ROAD SURFACE TO SMOOTH TRANSITION.

LEVEL DATUM: AHD PLOT DATE: 24/10/2022 | FOLDER: V: \Urban2\DRAWINGS Current\TOM SPECS AND PROJECTS FOLDER 2\PROJECTS 2022 - 23\Warringah Golf Club - kentwell road\TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1 241022.dwg CO-ORD SYSTEM: MGA PRELIMINARY DESIGN APPROVED APPROVED FOR CONSTRUCTION 0.10 0.20 0.30 0.40 0.50 METRES 1:20 @ A3 SURVEYED: N.A. DRAWN BY: THOMAS LAU DESIGNED BY: THOMAS LAU PROJ. MGR: N.A. WORK-AS-EXECUTED DATE: (**/**/***) DATED: 10/10/22 DATED: 10/10/22 0.2 0.4 0.6 0.8 1 METRES 1:40 @ A3 2 24/10/22 AMENDED FROM COMMENTS REC'D FROM AC/RP BY: N.A. INITIATED BY: RICHARD PARRY APPROVED BY: ***** APPROVED BY: THOMAS LAU 0 0.5 1.0 1.5 2.0 2.5 1 10/10/22 INITIATE DRAWINGS TL DATE: **/**/*** (SNR PROJECT MANAGER) PRINCIPAL ENGINEER PRINCIPAL ENGINEER METRES 1:100 @ A3



KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD STANDARD DETAILS

SHEET 1 DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-6000 | REVISION: 2



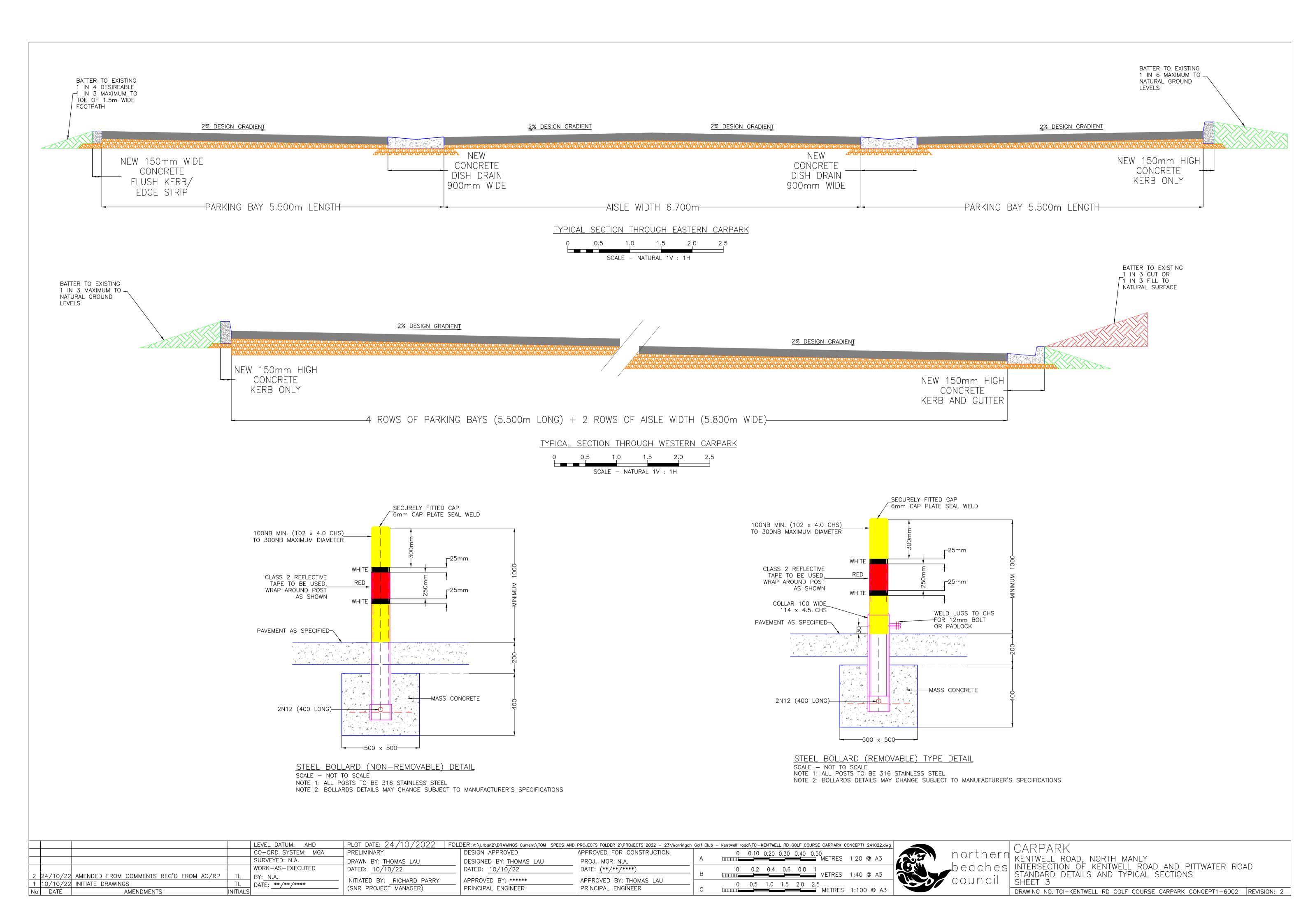
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AMENDMENTS

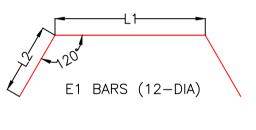
INITIALS

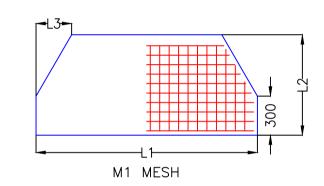
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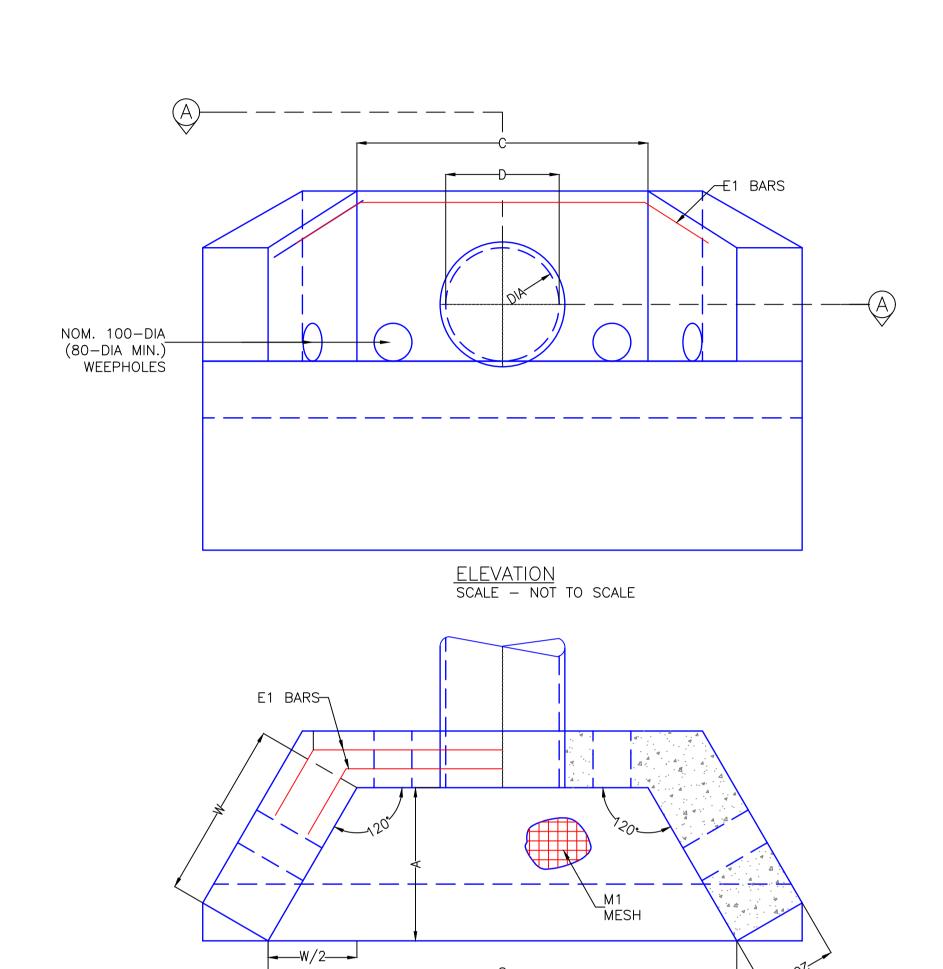
DRAWING NO. TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1-6002 | REVISION: 2

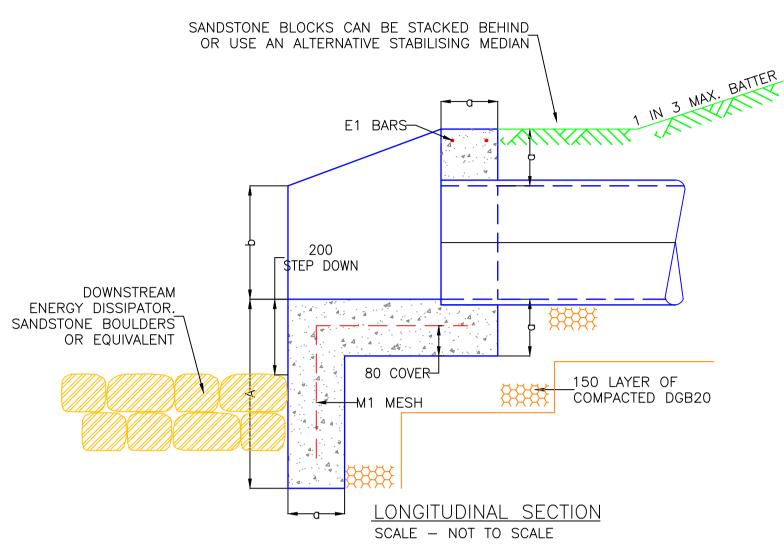


CONCRETE HEADWALL DIMEN	ISIONS	AND
REINFORCEMENT SCHEDULE		
D NOMINAL PIPE DIA	(mm)	375
<u>ω</u> A APRON DEPTH	(mm)	630
O A APRON DEPTH O C HEADWALL LENGTH O S APRON WIDTH O W WINGWALL LENGTH O b	(mm)	850
S APRON WIDTH	(mm)	1580
Z W WINGWALL LENGTH	(mm)	730
<u>∑</u> a	(mm)	150
	(mm)	300
ις E1 BARS		
L1 BARS L1 L2 No. REQUIRED	(mm)	965
<u> </u>	(mm)	200
No. REQUIRED	(No.)	4
<u>LENGTH</u>	(mm)	5460
∾ <u>M1 MESH</u>		SL82
Z <u> </u>	(mm)	1760
<u> </u>	(mm)	970
<u> </u>	(mm)	385
는 No. REQUIRED	(No.)	2
L2 E L3 E No. REQUIRED STEEL REINFORCEMENT	(Kg) <u>´</u>	26.3
CONCRETE N25 (REFER NOTE 1)	(m2)	0.91





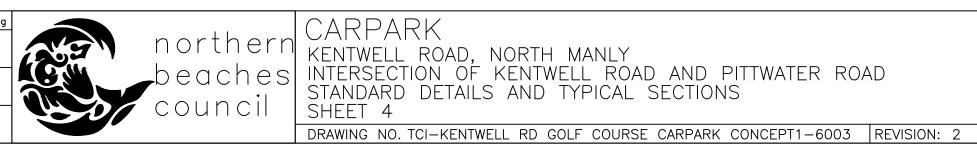




CONCRETE HEADWALL NOTES

- 1. CONCRETE STRENGTH GRADES SHOWN ARE FOR EXPOSURE CLASS A2. REFER TO AS3600 CONCRETE STRUCTURES CODE FOR CONCRETE STRENGTH GRADE AND COVER TO REINFORCEMENT FOR EXPOSURE CLASSIFICATIONS.
- 2. WEEP HOLES (80-DIA MIN. U.N.O.) ARE TO BE PROVIDED AT 1800 CTS MAXIMUM AT THE OUTLET ONLY.
- 3. ALL REINFORCEMENT IS TO BE GRADE 400Y OR EQUIV. TO
- AS1302-1991. 4. REINFORCEMENT MESH IS TO BE LAPPED SO THAT TWO OUTERMOST WIRES OF ONE FABRIC OVERLAP THE TWO OUTERMOST WIRES OF THE SHEET BEING LAPPED.
- 5. FOR REINFORCEMENT AND HEADWALL DIMENSIONS REFER TO CONCRETE HEADWALL DIMENSIONS AND REINFORCEMENT SCHEDULE.

				LEVEL DATUM: AHD	PLOT DATE: 24/10/2022	$FOLDER: V: \Urban2\DRAWINGS Current\TOM SPECS AND SPEC$	ID PROJECTS FOLDER 2\PROJECTS 2022 — 23\Warringah	Golf Club	- kentwell road\TCI-KENTWELL RD GOLF COURSE CARPARK CONCEPT1 241022.dwg
				CO-ORD SYSTEM: MGA	PRELIMINARY	DESIGN APPROVED	APPROVED FOR CONSTRUCTION		0 0.10 0.20 0.30 0.40 0.50 METRES 1:20 @ A3
				SURVEYED: N.A.	DRAWN BY: THOMAS LAU	DESIGNED BY: THOMAS LAU	PROJ. MGR: N.A.	Α	METRES 1:20 @ A3
				WORK-AS-EXECUTED	DATED: 10/10/22	DATED: 10/10/22	DATE: (**/**/	_	0 0.2 0.4 0.6 0.8 1
2	24/10/22	AMENDED FROM COMMENTS REC'D FROM AC/RP	TL	BY: N.A.		ADDDOVED DV. *****	ADDDOVED DV. THOMAS LALL	В	METRES 1:40 @ A3
_1	10/10/22	INITIATE DRAWINGS	TL	DATE: **/**/***	INITIATED BY: RICHARD PARRY	APPROVED BY: ***** PRINCIPAL ENGINEER	APPROVED BY: THOMAS LAU		0 0.5 1.0 1.5 2.0 2.5
No	DATE	AMENDMENTS	INITIALS		(SNR PROJECT MANAGER)	PRINCIPAL ENGINEER	PRINCIPAL ENGINEER	С	METRES 1:100 @ A3



northern CARPARK KENTWELL ROAD, NORTH MANLY INTERSECTION OF KENTWELL ROAD AND PITTWATER ROAD STANDARD DETAILS AND TYPICAL SECTIONS SHEET 4