

**GENERAL NOTES:** 

WITH ASSOCIATED WORK.

CIVIL GENERAL NOTES:

QUALIFIED ENGINEER.

BEYOND BOUNDARIES.

07/03/2022

Date:

AS2890.1 OFF-STREET CAR PARKING NOTES: GI. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION IF THE ISSUE DATE PRECEDES CPI. PARKING SPACE REQUIREMENTS TO COMPLY WITH AS2890.1. REFER ARCHITECT FOR THE ISSUE DATE ON THE LATEST ARCHITECTURAL DRAWINGS. SPECIFICATIONS AND DETAILS. G2. DO NOT SCALE FROM THIS DRAWING. CP2. MINIMUM DRIVEWAY WIDTHS, CLEARANCES, INCLUDING HEAD CLEARANCES TO COMPLY G3. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE BUILDER BEFORE COMMENCING WITH AS2890.1 REFER ARCHITECT FOR SPECIFICATIONS & DETAILS. CP3. GARAGE DOORWAY OPENING WIDTH BY OTHERS REFER ARCHITECT FOR SPECIFICATIONS AND DETAILS TO COMPLY WITH AS2890.1 CP4. BARRIERS REQUIRED WHERE DRIVEWAY DROP EXCEEDS 600mm. WHEEL STOP REQUIRED GNI. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND WHERE DRIVEWAY DROP IS BETWEEN 150-600mm, REFER AS2890.1, REFER ARCHITECT \$ THE REQUIREMENTS OF LOCAL COUNCIL AND ANY APPLICABLE AUTHORITIES LANDSCAPE ARCHITECT FOR SPECIFICATIONS AND DETAILS. GN2. NB CONSULTING TAKES NO RESPONSIBILITY AND ACCURACY OF SURVEY INFORMATION. CP5. VEHICULAR SIGHT LINES TO COMPLY WITH AS2890.1. SURVEY INFORMATION AND LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION. AS2890.2 OFF-STREET COMMERCIAL VEHICLE NOTES: GN3. FOR EXISTING CONTOURS AND LEVELS, REFER SURVEY PLAN. ALL LEVELS AND DIMENSIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION. CVI. MINIMUM DRIVEWAY WIDTHS, CLEARANCES, INCLUDING HEAD CLEARANCES TO COMPLY GN4. ALL BATTERS, RETAINING WALLS, SHORING AND BULK EARTHWORKS TO FUTURE DETAILS WITH AS2890.2 REFER ARCHITECT FOR SPECIFICATIONS & DETAILS. BY OTHERS. ALL RETAINING WALLS GREATER THAN 900mm HIGH TO BE DESIGNED BY A CV2. VEHICULAR SIGHT LINES TO COMPLY WITH AS2890.2. CIVIL STORMWATER NOTES GN5. APPROVAL REQUIRED WITH RELEVANT AUTHORITIES PRIOR TO RETAINING WALLS, CSI. APPROVAL MAY BE REQUIRED WITH RELEVANT AUTHORITIES PRIOR TO RETAINING WALLS, SHORING, AND BATTERS IMPACTING NEIGHBOURING PROPERTIES AND INFRASTRUCTURE SHORING, BATTERS & DRAINAGE IMPACTING NEIGHBOURING PROPERTIES AND INFRASTRUCTURE BEYOND BOUNDARIES. GNG. DRIVEWAY CROSSOVER & LAYBACK IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND GS2. STORMWATER AND DRAINAGE BY OTHERS TO AS3500 AND COUNCIL SPECIFCATIONS AND DETAILS. UNLESS NOTED OTHERWISE. DETAILS. GN7. NATURE STRIP, PAVEMENT, GUTTER & FOOTWAY CROSSINGS TO COUNCIL SPECIFICATIONS GS3. DRIVEWAY AND CIVIL WORKS DRAINAGE SUCH AS GRATED DRAINS & PITS HAVE NOT GN8. FILLING & REGRADING OF NATURE STRIP MAY BE REQUIRED TO ENSURE LEVELS AND BEEN SHOWN. REFER ARCHITECT AND/OR HYDRAULIC ENGINEER FOR SPECIFICATIONS \$ GRADES MATCH ADJACENT LEVELS TO COUNCIL REQUIREMENTS & DETAILS. DETAILS. PRIOR APPROVAL MAY BE REQUIRED WITH COUNCIL PRIOR TO CONSTRUCTION. CS4. EXISTING DRAINAGE ACROSS NATURE STRIP & KERBS IMPACTING PROPOSED WORKS TO BE RELOCATED OR UPGRADED AS REQUIRED BY OTHERS IN AN APPROVED MANNER. REFER ARCHITECT FOR SPECIFICATIONS AND DETAILS. CS5. STORMWATER FLOOD ANALYSIS AND/OR FREEBOARD LEVELS IF REQUIRED HAVE NOT BEEN PROVIDED FOR THIS CIVIL/DRIVEWAY ACCESS PLAN. COUNCIL TO CONFIRM IF REQUIRED PRIOR TO CONSTRUCTION. CADASTRAL REFERENCE MARKS, SURVEY PMs OR SSMs RSI: PURSUANT TO THE SURVEYING AND SPATIAL INFORMATION ACT, ANY CADASTRAL REFERENCE MARKS, SURVEY PMS OR SSMSTHAT ARE ON KERBS, FOOTPATHS OR SIMALAR THAT MAY BE AFFECTED BY CONSTRUCTION OR MAINTENANCE, NEED TO BE IDENTIFIED AND SURVEYED BY A REGISTERED LAND SURVEYOR BEFORE THEY ARE DESTROYED OR DISTURBED, PERSONAL FINES APPLY FOR BREACHES OF THE ACT. DIAL BEFORE YOU DIG NOTE: NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE DEVELOPERS \$ EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS. CARELESS DIGGING CAN: - CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE GENERAL PUBLIC - INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND COMMUNICATIONS

GN9. CONCRETE DRIVEWAY & JOINTING PLAN BY OTHERS. GNIO. IMPACT OF PROPOSED WORKS ON EXISTING TREE/S. REFER ARCHITECT AND/OR ARBORIST REPORT FOR DETAILS AND SPECIFICATIONS. GNII. TRAFFIC CONTROL SIGNAGE AND TRAFFIC CONTROL MEASURES BY OTHERS. GNI2. LINES AND MARKINGS BY OTHERS TO CONFORM TO MAIN ROADS 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. GN13. DISABLED PARKING SIGNAGE TO AS2890. GNI4. DISABLED PARKING TO COMPLY WITH AS2890.6. REFER ARCHITECT FOR SPECIFICATIONS AND DETAILS. GNI5. REFER ARCHITECT FOR LATEST PLANS AND EXTENTS OF PROPOSED BUILDING WORKS \$ STRUCTURES. TO BE CONFIRMED PRIOR TO CONSTRUCTION. GNIG. COUNCIL APPROVAL MAY BE REQUIRED PRIOR TO COMMENCING CONSTRUCTION. GNI7. NOTICE PRIOR TO COMMENCEMENT OR WORKS: AT LEAST SEVEN (7) DAYS BEFORE COMMENCEMENT OF ANY EXCAVATION OR DEMOLITION WORKS, THE BUILDER OR CLIENT MUST GIVE NOTICE TO THE OWNER(S) OF THE ADJOINING PROPERTY(S) AND PROVIDE DETAILS OF THE PROPOSED WORKS. FURTHER, THE ADJOINING OWNER MUST BE MADE AWARE OF THE RISK OF MINOR CRACKING DUE TO VIBRATIONS DURING CONSTRUCTION. THE BUILDER OR CLIENT IS RESPONSIBLE TO RECTIFY ANY DAMAGE WHICH MAY OCCUR AT THEIR OWN COST. GNI8. ANY EXCAVATION MUST NOT EXTEND BELOW NEIGHBOURING FOOTINGS. THE BUILDER MUST IMMEDIATELY NOTIFY THE STRUCTURAL AND GEOTECHNICAL ENGINEER IF, AT ANY TIME, EXCAVATION INADVERTENTLY EXTENDS BELOW NEIGHBOURING FOOTINGS. THE ENGINEERS WILL BOTH NEED TO COME OUT AND INSPECT AND IF NECESSARY PROVIDE UNDERPINNING OR ADDITIONAL SUPPORT DETAILS. - LEAD TO CRIMINAL PROSECUTION AND DAMAGES GNI9. GARAGE ENTRY STEP GRADED AS PER ARCHITECTS SPECIFICATIONS & DETAILS. CLAIMS GN20. VEHICLE BARRIERS & BALUSTRADING IN ACCORDANCE WITH AUSTRALIAN STANDARDS. MINIMISE YOUR RISK - CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS REFER ARCHITECT FOR SPECIFICATIONS AND DETAILS. AND DIAL BEFORE YOU - CUT OFF EMERGENCY SERVICES GN21. VEHICLE CRASH BARRIERS AND BALUSTRADING TO COMPLY WITH AS3845 ROAD SAFETY - DELAY PROJECT COMPLETION TIMES WHILE THE DIG. - TEL. 1100 BARRIER SYSTEMS AND DEVICES. REFER ARCHITECT FOR SPECIFICATIONS AND DETAILS. DAMAGE IS REPAIRED VEHICLE PROFILE NOTES VPI. ANY VEHICLE PROFILE ANALYSIS SUCH AS THE B85 PROFILE IS NORMALLY UNDERTAKEN ALONG THE DETAILED LONGITUDINAL SECTIONS WHICH HAVE GENERALLY BEEN LOCATED IN ACCORDANCE WITH COUNCIL POLICY. UNLESS NOTED OTHERWISE. THIS MAY NOT NECESSARILY REPRESENT THE WORSE CASE ANALYSIS. VP2. SWEPT PATH ANALYSIS HAS ONLY BEEN UNDERTAKEN AS THAT SHOWN, REFER SWEPT PATH ANALYSIS PLAN/S. DOCUMENT CE Date : 21 Apr '22 Michael Wachjo B.E.(Civil), MIEAust. ISSUED FOR COUNCIL SUBMISSION - NOT FOR CONSTRUCTION D.K. М.W. (Director NB Consulting Issue: Description: By: The copyright of this drawing rem Review: Consulting Engineers Pty Ltd. Tradi

# **Consulting Engineers**

# STRUCTURAL - CIVIL - STORMWATER - REMEDIAL



# DRAWING SCHEDULE:

- COI CIVIL GENERAL NOTES & DRAWING SCHEDULE
- CO2 DRIVEWAY ACCESS PLANS
- CO3 PROPOSED CONTOUR LEVELS LAYOUT PLAN (APPROXIMATE)
- CO4 LONGITUDINAL SECTIONS SHEET 1
- CO5 LONGITUDINAL SECTIONS SHEET 2 CO6 - LONGITUDINAL SECTIONS - SHEET 3

RTIFICATION	Consulting Engineers STRUCTURAL - CIVIL - STORMWATER - REMEDIAL A.C.N. 076 121 616 A.B.N. 24 076 121 616	Architect:	Project: PROPOSED DRIVEWAY AT 47 HILLTOP RD, AVALON
	<b>Sydney:</b> Ph: (02) 9984 7000 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099	Client:	Drawing Title:
Engineers) nains with Northern Beaches ing as NB Consulting Engineers	<b>Gold Coast:</b> Ph: (07) 5631 4744 30 Griffith Street Coolangatta QLD 4225 E : nb@nbconsulting.com.au W : www.nbconsulting.com.au	ANDREW UTIGER	CIVIL GENERAL NOTES & DRAWING SCHEDULE

CIVIL NOTES REVISION DATE: 04/05/2021

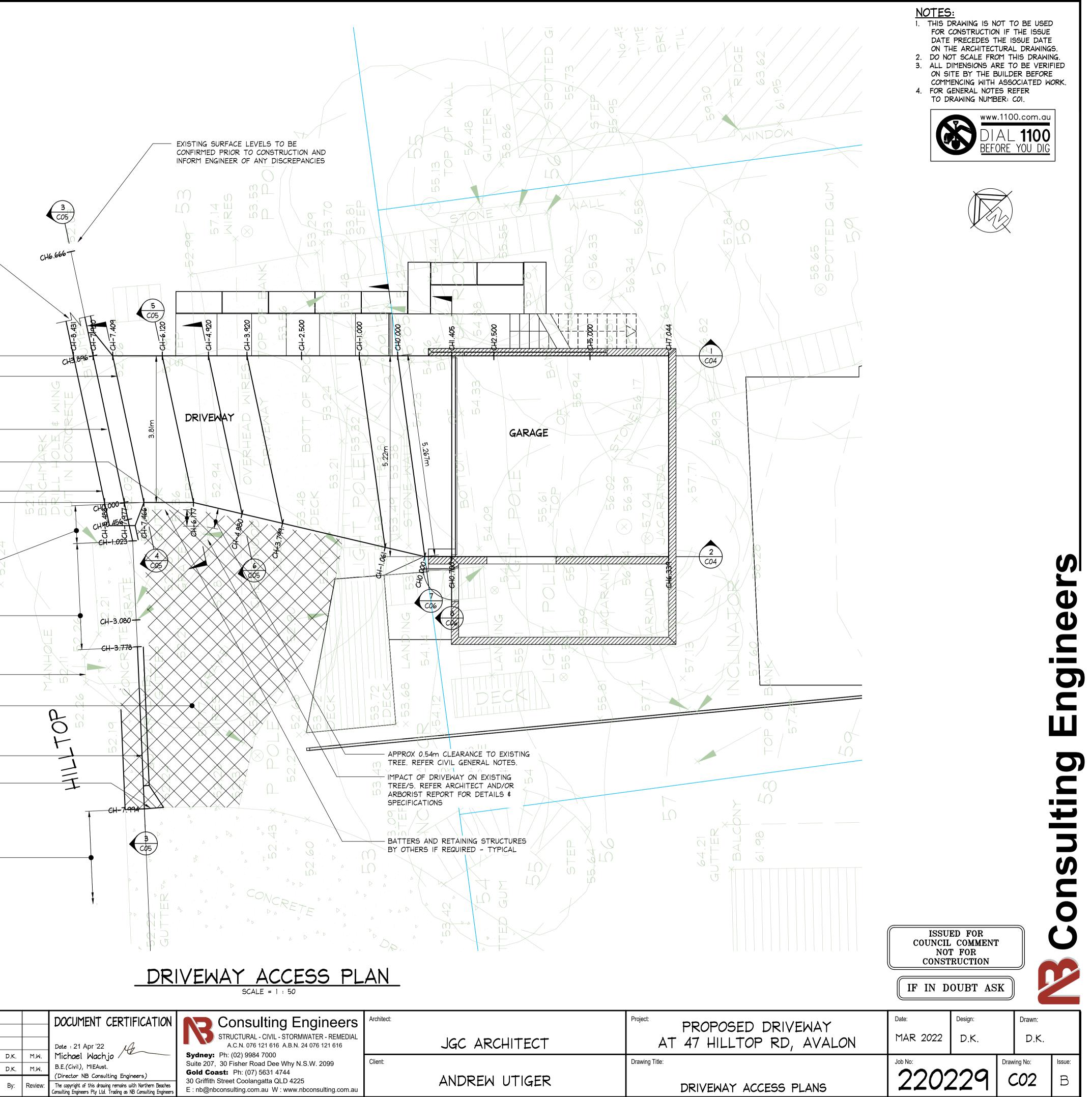
S  $\mathbf{O}$ 

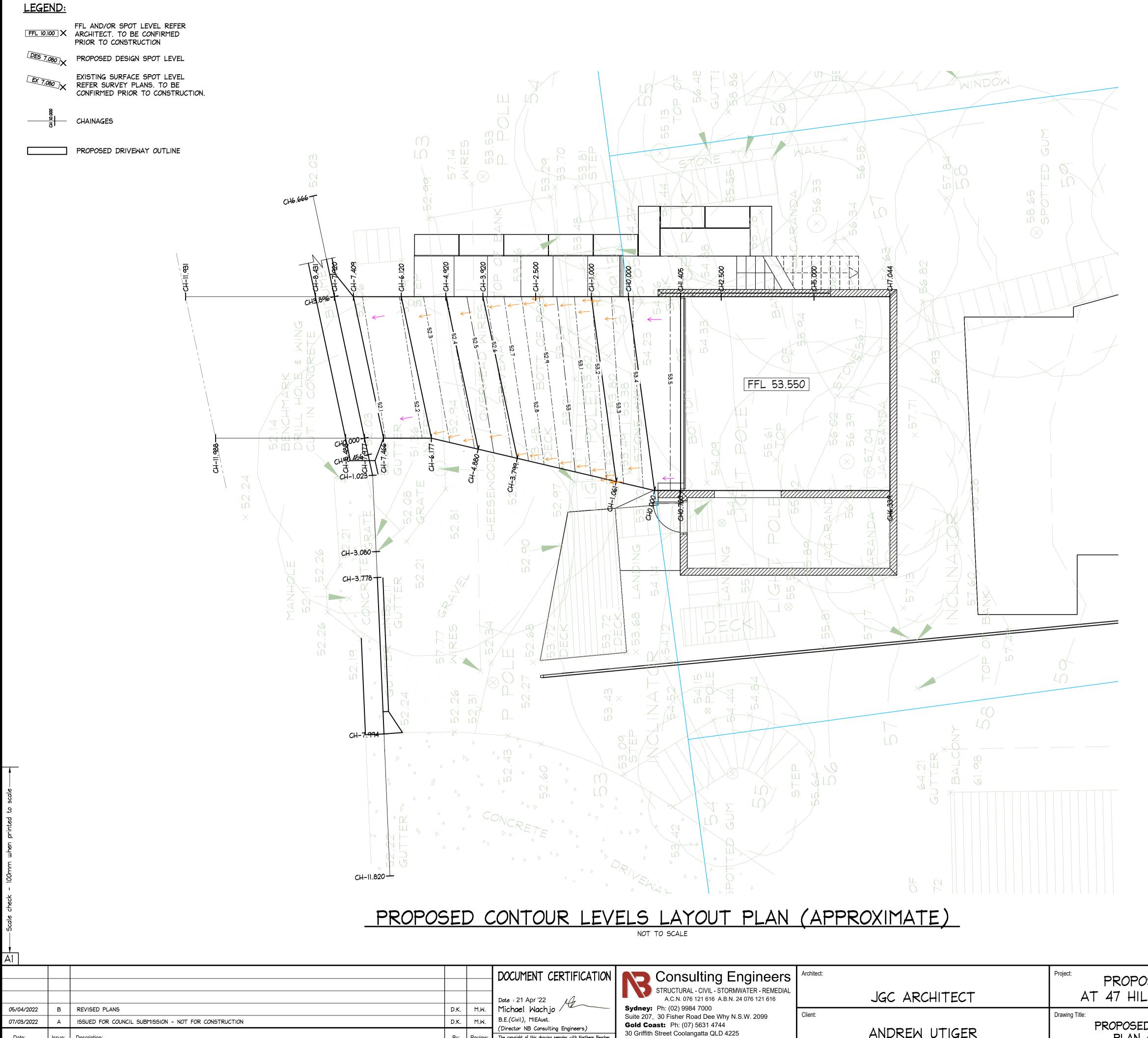
NO CONST	COMMENT TFOR TRUCTION			
Date:	Design:		Drawn:	
MAR 2022	D.K.		D.K.	
Job No:		Draw	ing No:	Issue:

C01

**ISSUED FOR** 

LEGEND:	
PROPOSED DRIVEWAY OUTLINE	
LOCAL COUNCIL	
COUNCIL: NORTHERN BEACHES COUNCIL	
	3
	C05
TRANSITION KERB & GUTTER TO MATCH EXISTING LEVELS IN ACCORDANCE WITH COUNCIL	CH6.666
SPECIFICATIONS AND DETAILS. EXTENTS TO BE CONFIRMED PRIOR TO CONSTRUCTION	
DX DX	Arth
	сна.896-
ROAD CAMBER VALUES ARE UNKNOWN, ASSUMED -3% MAX (FALL TO KERB) ROAD CAMBER. THE LAYBACK AND CROSSOVER HAS BEEN MODIFIED TO A NON-STANDARD LAYBACK TO ACCOMMODATE THE B85 VEHICLE PROFILE TEMPLATE. TO BE	
LOCATION OF LAYBACK TO BE CONFIRMED	
PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CHANGES TO CHAINAGES	X H RO
APPROX 0.615m CLEARANCE TO EXISTING TREE. REFER CIVIL GENERAL NOTES.	
EXISTING KERB & GUTTER LIP (LIP) LEVEL TO BE CONFIRMED PRIOR TO CONSTRUCTION	
PRIOR TO CONSTRUCTION	CHART
ARBITRARY ROAD REFERENCE	
IM MINIMUM OFFSET FROM EXISTING KERB INLET PIT LINTEL TO DRIVEWAY	
CROSSOVER AS PER COUNCIL CONDITIONS EXISTING KERB INVERT PIT (KIP)	
EXISTING PIT AND GUTTER. EXTENTS TO	
BE CONFIRMED PRIOR TO CONSTRUCTION. HATCHING DENOTES EXISTING DRIVEWAY &	
LAYBACK TO BE DEMOLISHED. FILLING ¢ REGRADING OF NATURE STRIP TO ENSURE LEVELS AND GRADES MATCH ADJACENT LEVELS TO	<b>D</b> 102.12
COUNCIL REQUIREMENTS AND DETAILS. REINSTATE NEW KERB AND GUTTER TO	
COUNCIL REQUIREMENTS AND DETAILS. TRANSITION NEW LAYBACK WING INTO EXISTING	
DRIVEWAY CROSSING TO MATCH EXISTING LEVELS. PRIOR APPROVAL REQUIRED WITH NEIGHBOURING AND RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION.	- Cł
scale	
EXISTING NEIGBOURING	
EXISTING NEIGBOURING DRIVEWAY CROSSOVER PRIOR APPROVAL MAY BE REQUIRED WITH RELEVANT AUTHORITIES PRIOR TO WORKS IMPACTING NEIGHBOURING PROPERTIES AND INFRASTRUCTURE	
TO WORKS IMPACTING NEIGHBOURING PROPERTIES AND INFRASTRUCTURE BEYOND PROPOSED BOUNDARIES.	۲.
Scale check	
A1	
	DOCUMENT CE
05/04/2022 B REVISED PLANS	Date : 21 Apr '22 D.K. M.W. Michael Wachjo
07/03/2022  A  ISSUED FOR COUNCIL SUBMISSION - NOT FOR CONSTRUCTION    Date:  Issue:  Description:	D.K.    M.W.    B.E.(Civil), MIEAust.      By:    Review:    (Director NB Consulting the copyright of this drawing the copyright of





The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers

E : nb@nbconsulting.com.au W : www.nbconsulting.com.au

By:

Review:

Date:

Description:

Issue:

ANDREW	UTIGER





# NOTES:

- 1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION IF THE ISSUE DATE PRECEDES THE ISSUE DATE ON THE ARCHITECTURAL DRAWINGS.
- 2. DO NOT SCALE FROM THIS DRAWING. 3. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE BUILDER BEFORE
- COMMENCING WITH ASSOCIATED WORK. 4. FOR GENERAL NOTES REFER TO DRAWING NUMBER: COI.



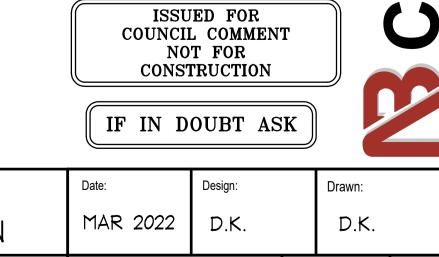
PROPOSED CONTOUR LEVELS ARE INDICATIVE ONLY. ALL LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION. DO NOT SCALE.

# GRADES ARROW SLOPE TABLE

SLOPE RANGES [%]	COLOUR
0.00 to 3.00	
3.00 to 5.00	
5.00 to 6.25	
6.25 to 15.00	
15.00 to 25.00	
25.00 to 35.00	

1) SLOPE ARROWS TO BE READ IN COLOUR ONLY. DO NOT INTERPRET DATA IN BLACK & WHITE PRINT.





Drawing No:

C03

Issue:

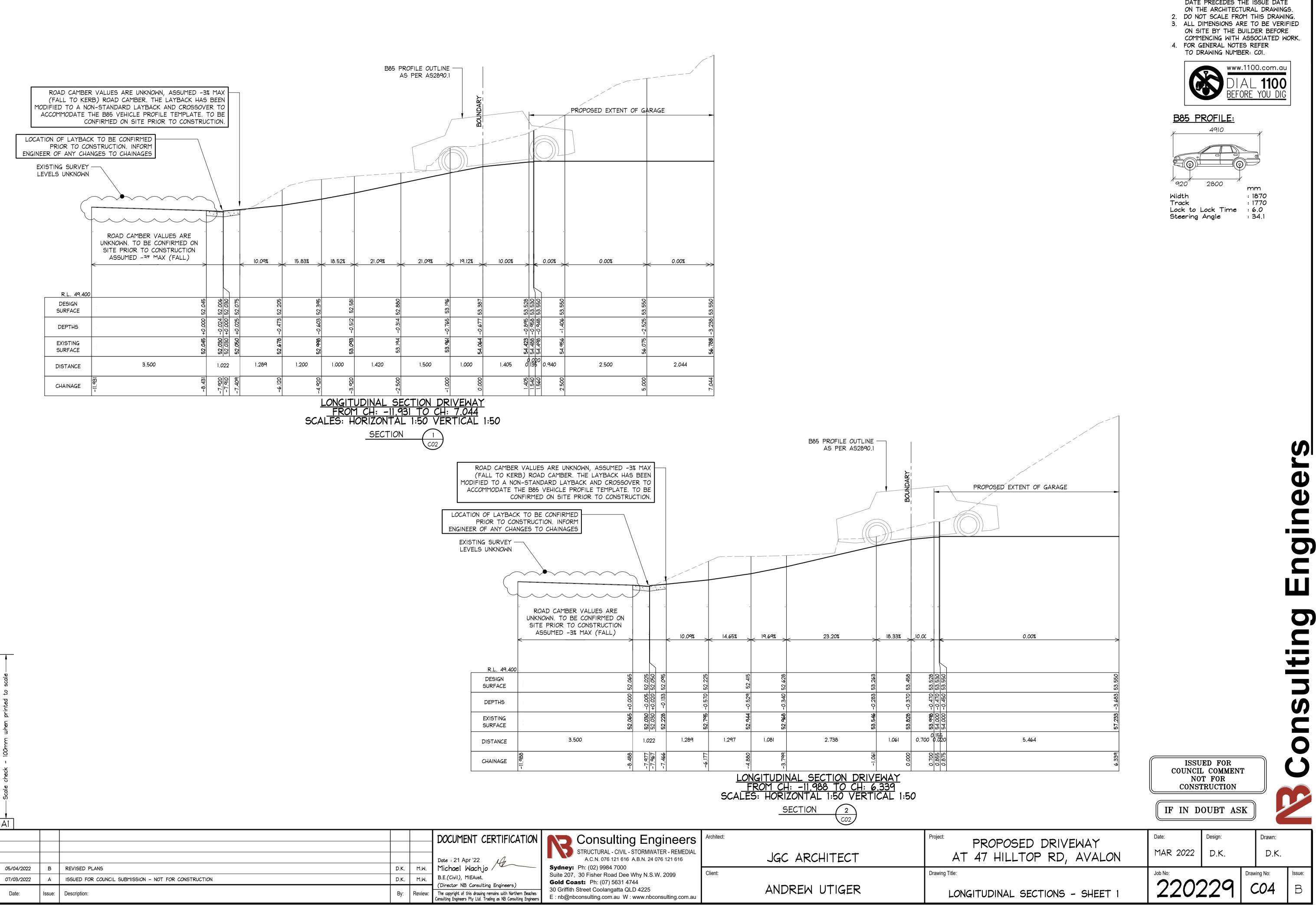
В

Job No:

220229

SED	DRIVE	EWAY
LTOF	PRD,	AVALON

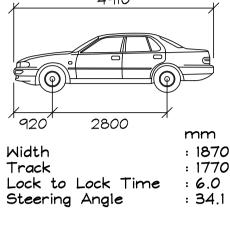
D	CONT	<i>TOUR</i>	LEVELS	2
(,	APPR	OXIMA	ATE)	

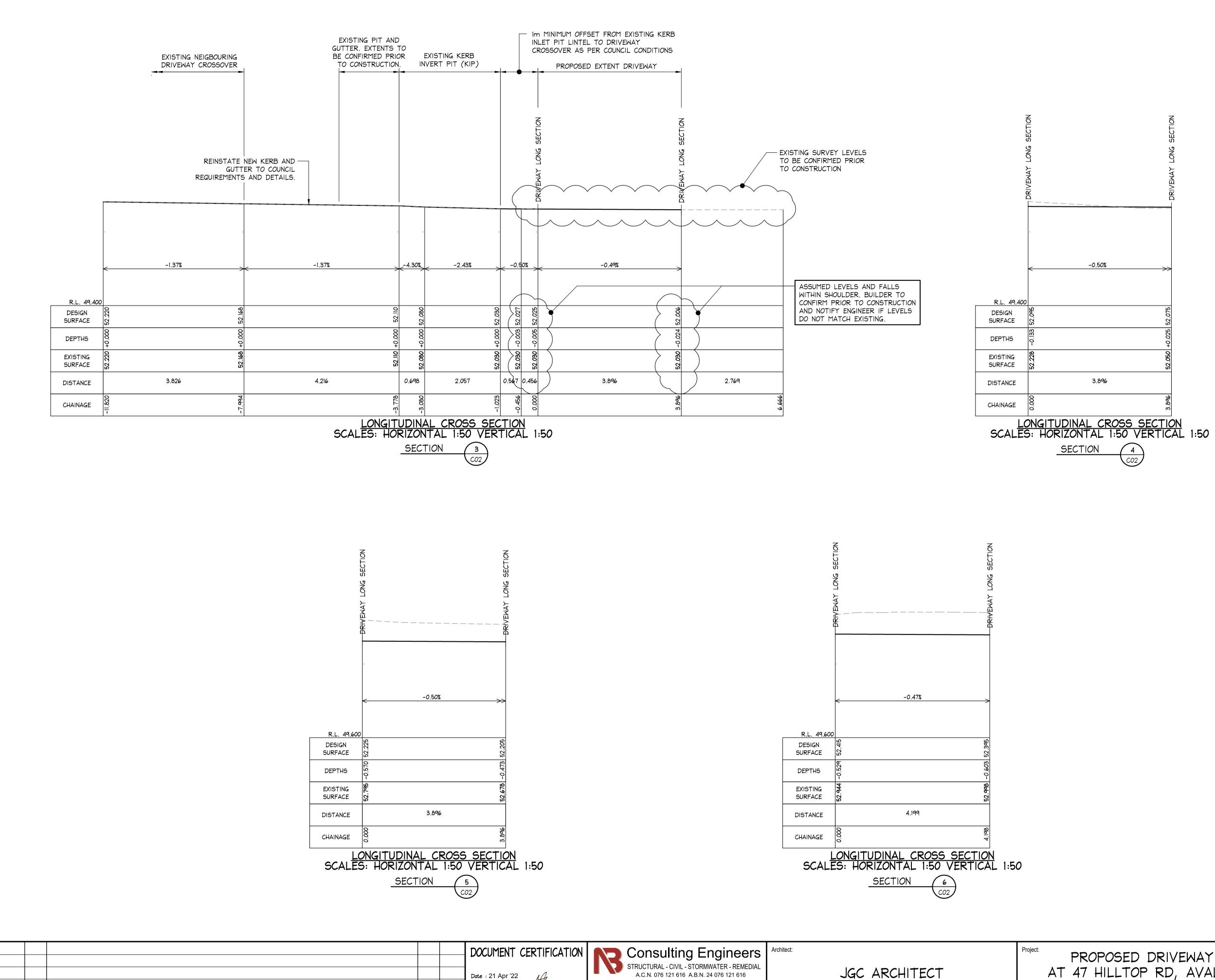


# NOTES:

- 1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION IF THE ISSUE DATE PRECEDES THE ISSUE DATE







					Date : 21 Apr '22
05/04/2022	В	REVISED PLANS	D.K.	M.W.	Michael Wachjo /
07/03/2022	А	ISSUED FOR COUNCIL SUBMISSION - NOT FOR CONSTRUCTION	D.K.	М.W.	B.E.(Civil), MIEAust.
Date:	Issue:	Description:	By:	Review:	(Director NB Consulting The copyright of this drawing rem Consulting Engineers Pty Ltd. Tradin

ERTIFICATION		Architect:	Project: PROPOS
A	STRUCTURAL - CIVIL - STORMWATER - REMEDIAL A.C.N. 076 121 616 A.B.N. 24 076 121 616	JGC ARCHITECT	AT 47 HILL
	<b>Sydney:</b> Ph: (02) 9984 7000 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099	Client:	Drawing Title:
ng Engineers)	Gold Coast: Ph: (07) 5631 4744	ANDREW UTIGER	
remains with Northern Beaches rading as NB Consulting Engineers	30 Griffith Street Coolangatta QLD 4225 E : nb@nbconsulting.com.au W : www.nbconsulting.com.au	ANDREN UTIGER	LONGITUDINAL

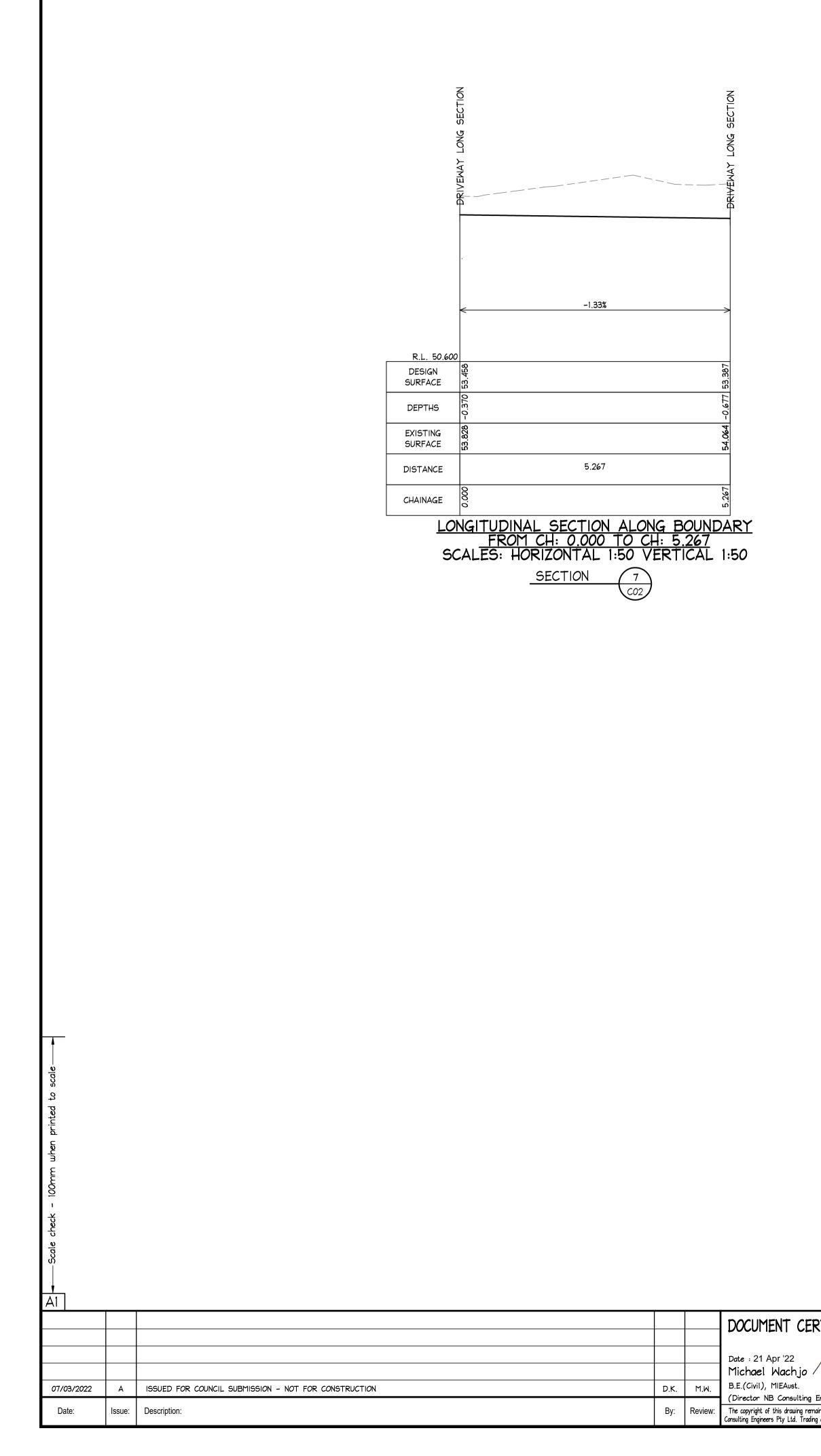
# NOTES:

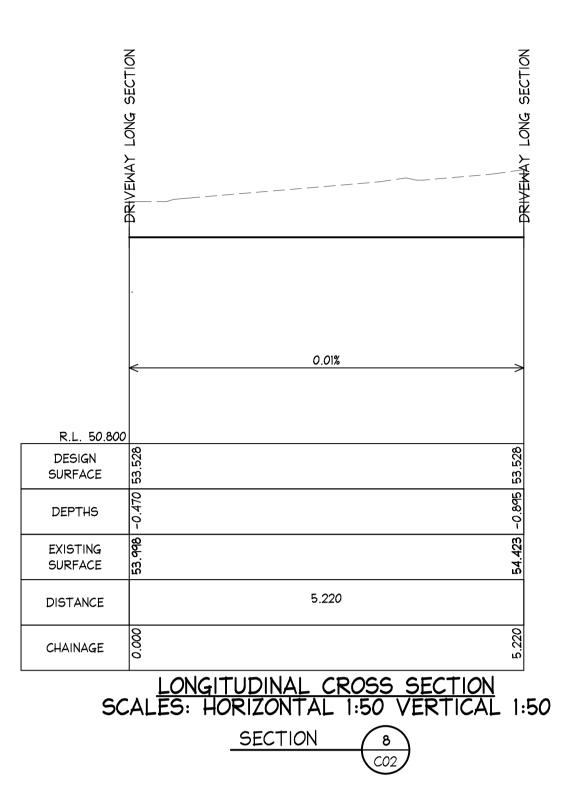
- 1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION IF THE ISSUE DATE PRECEDES THE ISSUE DATE ON THE ARCHITECTURAL DRAWINGS.
- 2. DO NOT SCALE FROM THIS DRAWING. 3. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE BUILDER BEFORE
- COMMENCING WITH ASSOCIATED WORK. 4. FOR GENERAL NOTES REFER TO DRAWING NUMBER: COI.





	ISSUED FOR COUNCIL COMMENT NOT FOR CONSTRUCTION						
	IF IN D	OUBT AS	K				
DSED DRIVEWAY LTOP RD, AVALON	<sup>Date:</sup> MAR 2022	Design: D.K.		Drawn: D.K.			
L SECTIONS - SHEET 2	Job No:	229		ng No: 205	lssue: B		





RTIFICATION		Architect:	Project: PROPC
A	STRUCTURAL - CIVIL - STORMWATER - REMEDIAL A.C.N. 076 121 616 A.B.N. 24 076 121 616	JGC ARCHITECT	AT 47 HI
	<b>Sydney:</b> Ph: (02) 9984 7000 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099	Client:	Drawing Title:
Engineers)	Gold Coast: Ph: (07) 5631 4744 30 Griffith Street Coolangatta QLD 4225	ANDREW UTIGER	
nains with Northern Beaches ng as NB Consulting Engineers	E : nb@nbconsulting.com.au W : www.nbconsulting.com.au	ANDREN UTIGER	LONGITUDINA

# NOTES:

- 1. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION IF THE ISSUE DATE PRECEDES THE ISSUE DATE ON THE ARCHITECTURAL DRAWINGS.
- DO NOT SCALE FROM THIS DRAWING.
  ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE BUILDER BEFORE
- COMMENCING WITH ASSOCIATED WORK. 4. FOR GENERAL NOTES REFER TO DRAWING NUMBER: CO1.



# Consulting Engineers

