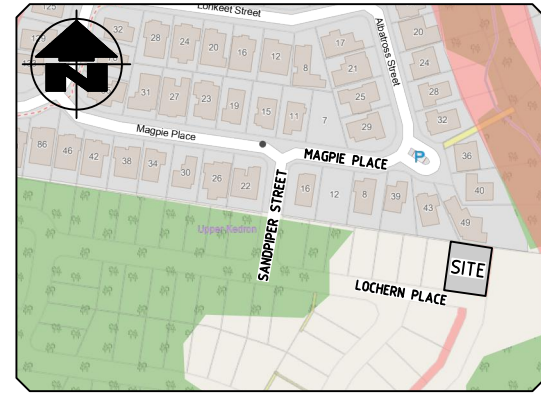




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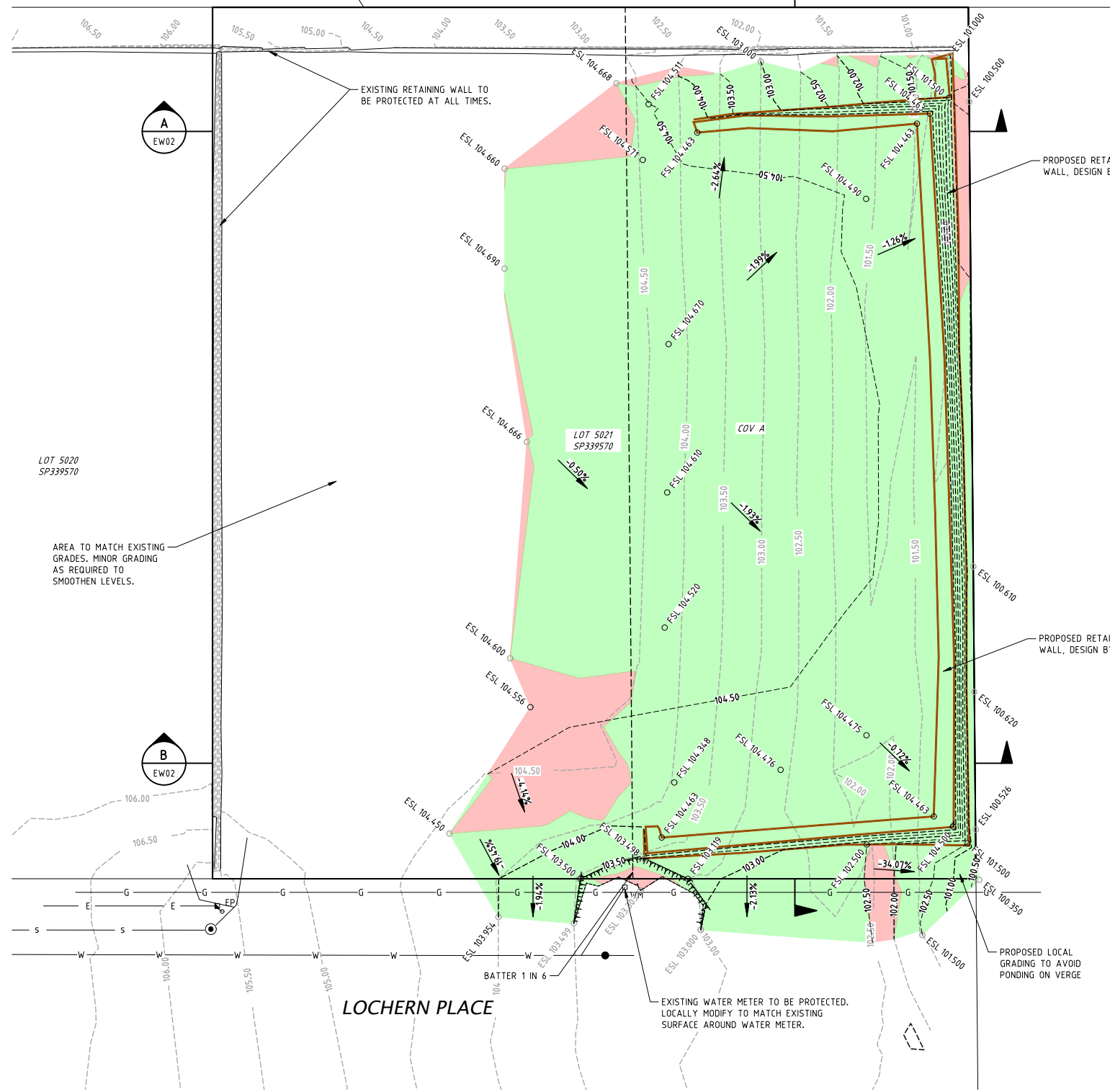
LOCALITY PLAN
SCALE 1:2500

DO NOT SCALE.
CONFIRM ALL DIMENSIONS ON SITE.
ORIGINAL DRAWING SIZE - A1

ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	14.05.26
B	ISSUE FOR APPROVAL	20.05.26

LEGEND

- EXISTING SURFACE LEVEL
- FINISHED SURFACE LEVEL
- PROPOSED SURFACE CONTOURS
- EXISTING SURFACE CONTOURS
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- PROPOSED RETAINING WALL
- EXISTING WATER MAIN
- EXISTING WATER METER
- EXISTING SEWER
- EXISTING GAS
- EXISTING ELECTRICAL



NOTE: ENSURE NO DAMAGE OCCURS TO ADJOINING PROPERTIES, STRUCTURES, OR SERVICES AS A RESULT OF THIS WORK. ALL WORKS TO BE WHOLLY WITHIN SITE.

PLAN
SCALE 1:100

ASSOCIATED CONSULTANT

PROJECT
**38 LOCHERN PLACE
UPPER KEDRON**

CLIENT
CHRISTINA BADGLEY

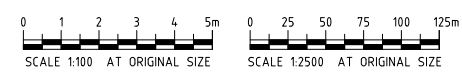
TITLE
EARTHWORKS PLAN



U3, 1311 IPSWICH ROAD, ROCKLEA QLD 4106
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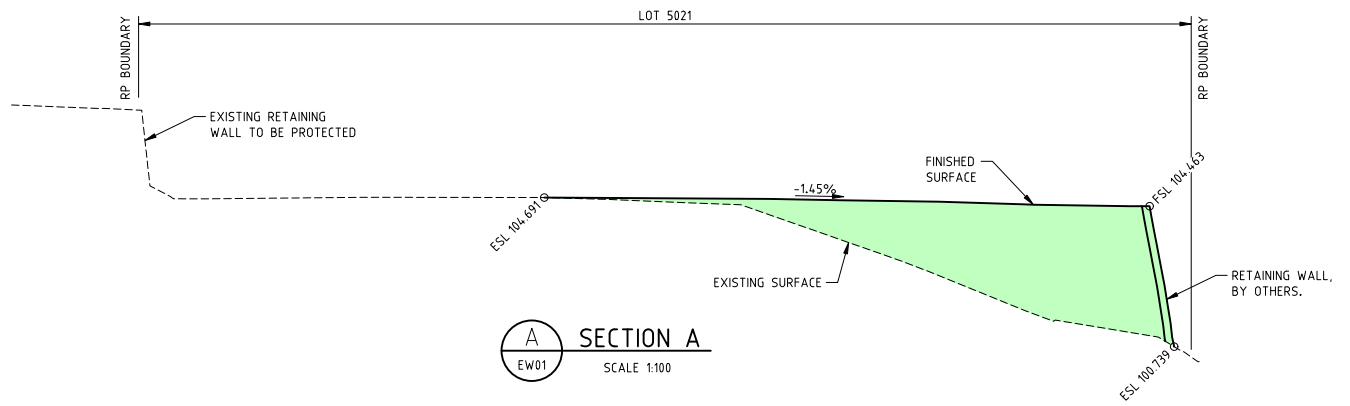
Designed RC	Drawn RC	Date 14.05.26
Approved <i>[Signature]</i>	Scale AS SHOWN	Rev. B
Drawing No. CW25200-EW01		

REAL PROPERTY DESCRIPTION
LOT No. 5021
PLAN No. SP 339570

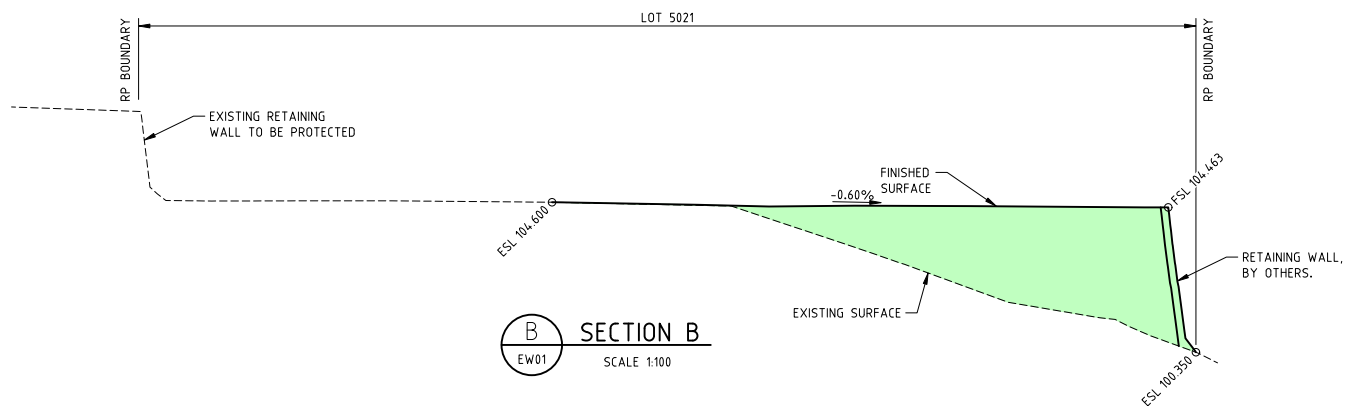


DO NOT SCALE.
CONFIRM ALL DIMENSIONS ON SITE.
ORIGINAL DRAWING SIZE - A1

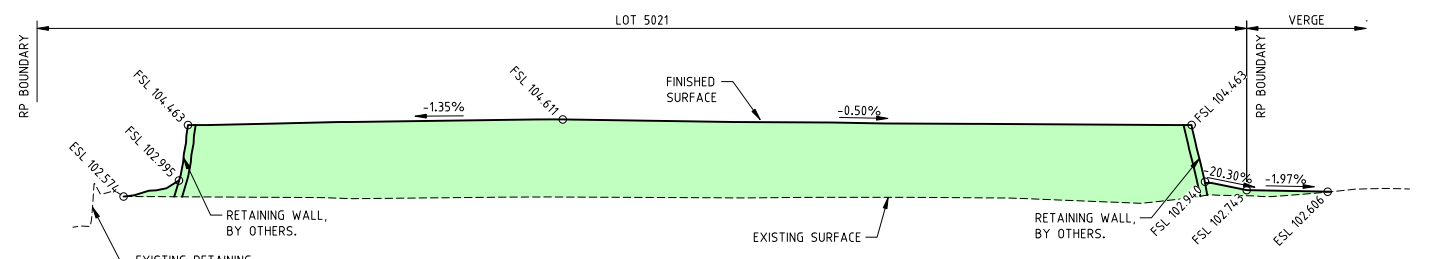
ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	14.05.26
B	ISSUE FOR APPROVAL	20.05.26



A SECTION A
EW01 SCALE 1:100

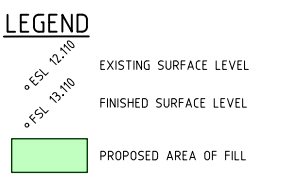


B SECTION B
EW01 SCALE 1:100



C SECTION C
EW01 SCALE 1:100

- EARTHWORKS NOTES**
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK. ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT. ANY COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.
 - ALL LEVELS ARE TO A.H.D.
 - THE ENTIRE SITE SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, REDUNDANT MASONRY REMAINS, GARBAGE, DEBRIS, AND ALL OTHER OBSTRUCTIONS TO THE WORKS UNLESS NOTED OTHERWISE. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO INSITU SOILS.
 - CLEARED MATERIAL AND EARTHWORKS SPOIL SHALL BE REMOVED FROM THE SITE.
 - THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY ALL EARTHWORKS AND CLEARING OPERATIONS.
 - SITE EARTHWORKS GENERALLY, SHALL BE CARRIED OUT IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 3798, GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS, UNLESS NOTED OTHERWISE.
 - TOPSOIL WHERE ENCOUNTERED SHALL BE STRIPPED AND STOCKPILED PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OPERATION. THE LOCATION OF THE STOCKPILE ON SITE SHALL BE AS DIRECTED BY THE SUPERINTENDENT.
 - IF DURING EARTHWORKS OPERATIONS UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED THEN, PRIOR TO ANY FILLING OPERATION, THIS MATERIAL SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SUPERINTENDENT WITH AN APPROVED SUITABLE MATERIAL.
 - FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH AS 1289 USING STANDARD COMPACTION METHODS.
 - 100% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 80% IN COHESIONLESS MATERIAL FOR ROAD SUBGRADE.
 - 95% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 65% IN COHESIONLESS MATERIAL FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS.
 - 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 70% IN COHESIONLESS MATERIAL FOR BUILDING PADS.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO CONFIRM WITH THE STRUCTURAL ENGINEER THE MAXIMUM MACHINERY LOAD TO BE USED WHEN BACKFILLING BEHIND RETAINING WALLS. CONTRACTOR TO ENSURE A MINIMUM 1.5x HEIGHT OF WALL (m) CLEARANCE IS MAINTAINED FROM TOP OF RETAINING WALL FOR ALL MACHINERY EXCEEDING THE DESIGNED LOAD. FILL ON TOP OF FOOTING AND DIRECTLY BEHIND WALL TO BE COMPACTED USING WHACKER PACKER OR SIMILAR.
 - THROUGHOUT THE EARTHWORKS OPERATION THE CONTRACTOR IS TO ENSURE THAT THE SITE IS SELF DRAINING. DAMAGE RESULTING FROM THE EXPOSURE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 - ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 3798 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.



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EARTHWORKS VOLUMES

TOPSOIL VOLUMES	
TOPSOIL STRIP (ASSUMED 100mm)	= 53m ³
RESPREAD TOPSOIL (100mm)	= 66m ³
DISPOSAL OF TOPSOIL	= 13m ³
BANK VOLUMES	
CUT	= 2m ³
FILL	= 616m ³
ESTIMATED BULKING FACTORS	
CUT (1.15 BULKING)	= 3m ³
FILL (1.05 COMPACTION)	= 64.7m ³
BALANCE	= 64.4m ³ (IMPORT)

NOTE:
NO GEOTECHNICAL TESTING HAS BEEN UNDERTAKEN TO CONFIRM DEPTH OF TOPSOIL. CONTRACTOR TO CONFIRM BULKING FACTORS. UNSUITABLE MATERIALS SITE HAVE BEEN QUANTIFIED AS NO GEOTECHNICAL REPORT WAS PRESENT DURING DESIGN PHASE.

EXISTING SERVICES NOTE
THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

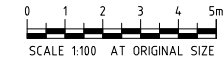
EARTHWORKS LEVELS NOTE
FINISHED SURFACE AND FINISHED FLOOR LEVELS ARE SHOWN ON THIS PLAN. EARTHWORKS LEVELS SHALL BE DERIVED BASED ON THE FOLLOWING INDICATIVE THICKNESS:
- TOPSOIL DEPTH = 100mm

RETAINING WALL NOTES

- ALL RETAINING WALLS LOCATED WITHIN THE SITE TO STABILISE EXCAVATION ARE TO BE LOCATED A MINIMUM OF 225mm FROM PROPERTY BOUNDARY TO ACCOMMODATE SUB-SOIL DRAINAGE WITHOUT ENCROACHMENT INTO NEIGHBOURING PROPERTY.
- WALL TYPE AND FINISH TO BE PROVIDED BY DEVELOPER.
- WALL DETAILS TO BE PROVIDED BY STRUCTURAL ENGINEER.

EARTHWORKS EROSION CONTROL
GROUND COVERAGE OF 80% ON ALL DISTURBED AREAS IS REQUIRED WITHIN 30 CALENDAR DAYS FROM COMPLETION OF ANY WORKS. SHOULD CONSTRUCTION OF BUILDING WORKS COMMENCE MORE THAN 30 CALENDAR DAYS FROM THE COMPLETION OF CIVIL WORKS, TEMPORARY GROUND COVER (EQUIVALENT OF 80% GRASS COVER) SHALL BE PROVIDED TO ALL DISTURBED AREAS. ANY GRASS SEEDING, HYDROMULCHING, AND OR TURFING IS TO BE IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA) BEST PRACTICES AND SEDIMENT CONTROL GUIDELINES 2008.

CONTRACTOR VARIATION NOTE
SHOULD THE CONTRACTOR DEVIATE FROM THE DESIGN SHOWN ON THIS DRAWING, CONTRACTOR TO CONTACT CIVIL WORKS ENGINEERS TO HIGHLIGHT THE DEVIATION FOR CIVIL WORKS ENGINEERS ADVICE AND/OR CERTIFICATION.



REAL PROPERTY DESCRIPTION
LOT No. 5021
PLAN No. SP 339570

ASSOCIATED CONSULTANT

PROJECT
**38 LOCHERN PLACE
UPPER KEDRON**

CLIENT
CHRISTINA BADGLEY

TITLE
**EARTHWORKS NOTES
AND SECTIONS**

CIVILWORKS ENGINEERS
Property Development Solutions

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Designed RC	Drawn RC	Date 14.05.26
Approved RC	Scale AS SHOWN	Rev. B
Drawing No. CW25200-EW02		