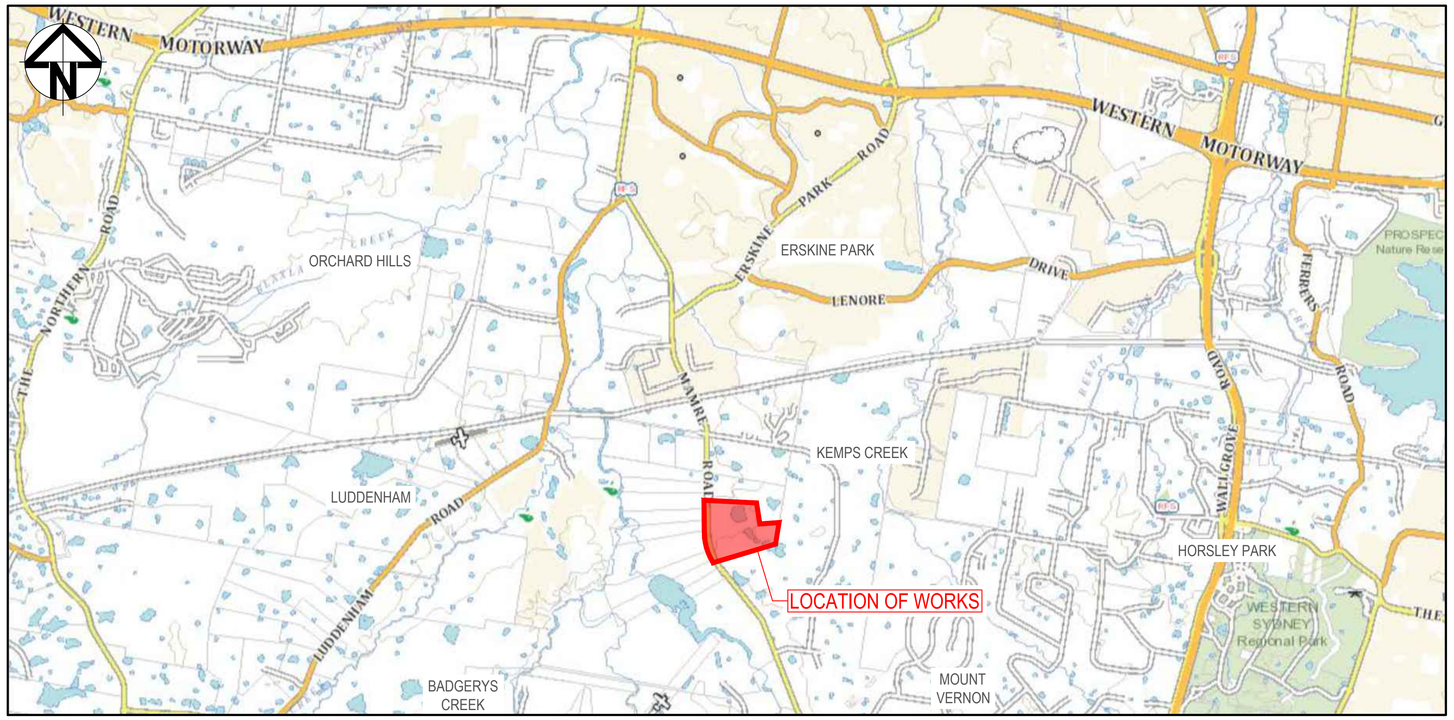
ASPECT INDUSTRIAL ESTATE

BULK EARTHWORKS PACKAGE

SUBDIVISION WORKS CERTIFICATE

788-882 MAMRE ROAD, KEMPS CREEK

SSD-10448



LOCALITY PLAN

NOT TO SCALE

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to

Development Consent: SSD-10448

Subdivision Works Certificate: EA22/0002

Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

100mm on Original

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Client: mirvac

Scales			
		Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: COVER SHEET AND LOCALITY PLAN

Civil Engineers and Project Managers

at&l

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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6000

Issue: 1

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DRAWING LIST

DRAWING No.	DRAWING TITLE
18-596-C6000	COVER SHEET AND LOCALITY PLAN
18-596-C6001	DRAWING LIST
18-596-C6002	NOTES AND LEGENDS SHEET
18-596-C6003	GENERAL ARRANGEMENT PLAN
18-596-C6010	TYPICAL SECTIONS SHEET 1
18-596-C6011	TYPICAL SECTIONS SHEET 2
18-596-C6012	TYPICAL SECTIONS SHEET 3
18-596-C6015	TYPICAL SECTIONS SHEET 4
18-596-C6020	BULK EARTHWORKS CONTOUR PLAN
18-596-C6021	BULK EARTHWORKS SECTIONS SHEET 1
18-596-C6022	BULK EARTHWORKS SECTIONS SHEET 2
18-596-C6025	BULK EARTHWORKS CUT/FILL PLAN
18-596-C6030	BULK EARTHWORKS PLAN SHEET 1
18-596-C6031	BULK EARTHWORKS PLAN SHEET 2
18-596-C6032	BULK EARTHWORKS PLAN SHEET 3
18-596-C6033	BULK EARTHWORKS PLAN SHEET 4
18-596-C6034	BULK EARTHWORKS PLAN SHEET 5
18-596-C6035	BULK EARTHWORKS PLAN SHEET 6
18-596-C6036	BULK EARTHWORKS PLAN SHEET 7
18-596-C6037	BULK EARTHWORKS PLAN SHEET 8
18-596-C6038	BULK EARTHWORKS PLAN SHEET 9
18-596-C6039	BULK EARTHWORKS PLAN SHEET 10
18-596-C6045	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
18-596-C6046	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)
18-596-C6070	ROAD 01 LONGITUDINAL SECTION SHEET 1
18-596-C6071	ROAD 02 LONGITUDINAL SECTION SHEET 1
18-596-C6072	ROAD 02 LONGITUDINAL SECTION SHEET 2
18-596-C6080	RETAINING WALL GENERAL ARRANGEMENT PLAN
18-596-C6081	RETAINING WALL RW11 PLAN AND PROFILE
18-596-C6082	RETAINING WALL RW21 PLAN AND PROFILE
18-596-C6083	RETAINING WALL RW22 PLAN AND PROFILE
18-596-C6110	EROSION AND SEDIMENT CONTROL PLAN SHEET 1
18-596-C6111	EROSION AND SEDIMENT CONTROL PLAN SHEET 2
18-596-C6112	EROSION AND SEDIMENT CONTROL PLAN SHEET 3
18-596-C6113	EROSION AND SEDIMENT CONTROL PLAN SHEET 4
18-596-C6114	EROSION AND SEDIMENT CONTROL PLAN SHEET 5
18-596-C6115	EROSION AND SEDIMENT CONTROL PLAN SHEET 6
18-596-C6116	EROSION AND SEDIMENT CONTROL PLAN SHEET 7
18-596-C6117	EROSION AND SEDIMENT CONTROL PLAN SHEET 8
18-596-C6118	EROSION AND SEDIMENT CONTROL PLAN SHEET 9
18-596-C6119	EROSION AND SEDIMENT CONTROL PLAN SHEET 10
18-596-C6120	EROSION AND SEDIMENT CONTROL DETAILS
18-596-C6200	UPSTREAM DIVERSION CHANNEL CONTROL PLAN
18-596-C6210	UPSTREAM DIVERSION CHANNEL LONGITUDINAL SECTION
18-596-C6220	UPSTREAM DIVERSION CHANNEL CROSS SECTIONS SHEET 1
18-596-C6221	UPSTREAM DIVERSION CHANNEL CROSS SECTIONS SHEET 2
18-596-C6300	RIPARIAN CORRIDOR PLAN AND LONGSECTION
18-596-C6351	RIPARIAN CORRIDOR CROSS SECTIONS SHEET 1
18-596-C6352	RIPARIAN CORRIDOR CROSS SECTIONS SHEET 2
18-596-C6353	RIPARIAN CORRIDOR CROSS SECTIONS SHEET 3

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Client: mirvac

Scales
Grid MGA2020
Height Datum AHD
GDA2020

Drawn KLR
Designed KLR
Checked DS
Approved AT

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: DRAWING LIST

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A1
Project - Drawing No.: 18-596-C6001
Issue: 1

100mm on Original

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SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL. REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMAPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER $50m^3$ OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L AND PENRITH CITY COUNCIL.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L AND PENRITH CITY COUNCIL. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
13. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRID'S EASEMENT TO COMPLY WITH TRANSGRID'S GUIDELINES AND REQUIREMENTS.
14. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LAND PARTNERS PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
PRIOR TO THE COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL UNDERTAKE A DETAILED BOUNDARY SURVEY AND COMPARE AGAINST THE DESIGN FOR DISCREPANCIES.
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA, DESIGN DATA AND ACTUAL FIELD DATA, CONTACT AT & L IMMEDIATELY.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD SURVEY.

SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. IF NOT ABLE TO BE SO LOCATED, SERVICES HAVE BEEN PLOTTED FROM THE RECORDS OF RELEVANT AUTHORITIES WHERE AVAILABLE AND HAVE BEEN NOTED ACCORDINGLY ON THE PLAN. WHERE SUCH RECORDS DO NOT EXIST OR ARE INADEQUATE A NOTATION HAS BEEN MADE HEREON.

PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES.

DEWATERING

1. IF REQUIRED ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

EXISTING UNDERGROUND SERVICES

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
2. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
5. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
6. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

DECOMMISSIONING / DEMOLITION

1. DEMOLITION OF EXISTING DWELLING TO BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF AS2601-2001 - DEMOLITION OF STRUCTURES BY CONTRACTORS EXPERIENCED IN THIS CLASS OF WORK AND HOLDING REQUIRED CURRENT PERMITS AND LICENSES AS REQUIRED.
2. EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
3. DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).
4. ALL EXISTING SERVICES (INCLUDING SEPTIC TANKS) SHALL BE REMOVED FROM SITE.
5. ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.
6. ALL OVERHEAD SERVICES SHALL BE REMOVED FROM WITHIN THE SITE BOUNDARY AND MADE SAFE AT THE TERMINATION LOCATION. ANY POLES SHALL BE REMOVED FROM THE SITE.
7. ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENT
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.
6. THE CONTRACTOR SHALL PREPARE ADDITIONAL EROSION AND SEDIMENT CONTROL PLANS THROUGHOUT THE WORKS THAT DOCUMENT THE REQUIRED CONTROLS TO MATCH THE STAGE AND PROGRESSION OF WORKS. IN THIS REGARD, THE EROSION AND SEDIMENT CONTROL PLANS INCLUDED WITHIN THIS DRAWING SET ARE GENERALLY THOSE CONTROLS TO BE IMPLEMENTED AT THE COMPLETION OF ALL WORKS.
7. SITE PERSONNEL RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROLS ARE TO BE APPROPRIATELY TRAINED IN IMPLEMENTATION AND MAINTENANCE OF CONTROL MEASURES

LAND DISTURBANCE

8. THE CONTRACTOR SHALL PREPARE ADDITIONAL EROSION AND SEDIMENT CONTROL PLANS THROUGHOUT THE WORKS THAT DOCUMENT THE REQUIRED CONTROLS TO MATCH THE STAGE AND PROGRESSION OF WORKS. IN THIS REGARD, THE EROSION AND SEDIMENT CONTROL PLANS INCLUDED WITHIN THIS DRAWING SET ARE GENERALLY THOSE CONTROLS TO BE IMPLEMENTED AT THE COMPLETION OF ALL WORKS.
9. SITE PERSONNEL RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROLS ARE TO BE APPROPRIATELY TRAINED IN IMPLEMENTATION AND MAINTENANCE OF CONTROL MEASURES
10. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
    (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
    (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
    (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
    (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
    (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
    (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

11. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
12. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
13. WITHIN 5 DAYS OF THE CONCLUSION OF A RAINFALL EVENT, SEDIMENT BASINS MUST BE TREATED AND APPROVED CAPACITY RESTORED FOR THE ONGOING MANAGEMENT OF THE SITE SEDIMENT YIELD. IT IS NOTED THAT SOME BASINS MAY BE OVERSIZED TO RETAIN SITE WATER FOR CONSTRUCTION PURPOSES.
14. SITE WATER DISCHARGED FROM THE PROJECT WILL BE COMPLIANT WITH EPA CRITERIA AND WILL BE UNDERTAKEN AT APPROVED LOCATIONS BY
APPROPRIATELY TRAINED SITE PERSONNEL. WATER DISCHARGE IS TO BE UNDERTAKEN AT NON-EROSIVE VELOCITIES WITH ADEQUATE DIFFUSERS, LEVEL SPREADERS, ETC. AND WILL ENSURE LOCALISED FLOODING DOES NOT OCCUR.
15. BASIN SPILLWAY MATERIAL WILL BE CLASSIFIED AS SUITABLE TO ACHIEVE DESIRED COMPACTION FOR STRUCTURE STABILITY.
16. NO VISIBLE OIL AND GREASE SHALL BE PRESENT IN ANY WATER TO BE DISCHARGED OFFSITE.
17. IF REQUIRED, THE CONTRACTOR SHALL ADD FLUCCULANT (E.G. GYPSUM) TO DROP SEDIMENT OUT OF SOLUTION TO MEET EPA REQUIREMENTS FOR TURBIDITY.
THE PH OF ANY WATER TO BE DISCHARGED OFFSITE SHALL MEET EPA REQUIREMENTS.
18. BASIN INLET AND SPILLWAY CONSTRUCTION WILL INCLUDE SUITABLE SLOPE STABILISATION REQUIREMENTS AS REQUIRED TO ACHIEVE STABILITY FROM DISCHARGE AND OVERTOPPING WATER E.G. ROCK SCOUR AND GEOFABRIC. THE CONTRACTOR SHALL CONFIRM THE SPECIFIC SLOP STABILITY CONTROLS.
19. WHERE MATERIAL OR FABRIC IS USED, THE MATERIAL WILL BE OVERLAPPED BY A MINIMUM 300MM AND ANCHORED IN TO PREVENT SLIPPAGE AND UNDERCUTTING ON THE SLOPE.
20. WHERE ROCK MATERIAL IS USED, ROCK WILL BE A MINIMUM 150MM IN DIAMETER AND CONSTRUCTED TO PROVIDE ENERGY DISSIPATION FOR OVERTOPPING WATER.
21. THE FINISHED SPILLWAY WILL BE FREE OF DEPRESSIONS, POCKETS OF SMALL ROCK AND WILL BE SMOOTH AND UNIFORM SURFACE TO ENSURE EVEN FLOW OF OVERTOPPING WATER.COMPLETED EARTHWORKS PADS, WHICH ARE TO REMAIN UNDISTURBED FOR AN EXTENDED PERIOD OF TIME, SHALL BE SUITABILITY STABILISED (E.G. CHEMICAL BINDERS OR HYDROMULCHING) TO PREVENT DUST GENERATION AND SEDIMENT RUNNOFF.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
13. INSPECTIONS OF EROSION AND SEDIMENT CONTROLS WILL OCCUR (AND BE DOCUMENTED) ON A REGULAR BASIS. THIS WILL INCLUDE IMMEDIATELY FOLLOWING RAINFALL EVENTS >10MM, WITH ANY NECESSARY REPAIRS IMPLEMENTED AS SOON AS POSSIBLE.
14. RELEVANT CHECKLISTS AND RECORDS TO BE MAINTAINED NOTING DETAILS SUCH AS RAINFALL RECEIVED, REPAIRS TO CONTROLS AND AMOUNTS OF SEDIMENTS CLEANED FROM CONTROLS.
15. ALL SITE PERSONNEL TO REPORT ANY SPILL, LEAKS, OR OTHER FAILURE TO RELEVANT RESPONSE STAFF AS SOON AS POSSIBLE.
16. EROSION AND SEDIMENT CONTROLS ARE TO BE MAINTAINED UNTIL THE PROJECT CATCHMENTS AREA IS STABILISED TO ACHIEVE SOIL SURFACE PROTECTION FACTORS AS PER THE 'BLUEBOOK'. AN INSPECTION BY THE PROJECT SOIL CONSERVATIONIST WILL BE UNDERTAKEN TO VERIFY THE STABILISATION OF THE PROJECT CATCHMENT AREA PRIOR TO REMOVAL OF CONTROLS.

OTHER MATTERS

17. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
18. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
    (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
    (B) ENSURING THAT NOTHING IS NAILED TO THEM
    (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
    (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
    (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
    (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE, THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
4. COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 — PROPOSED MAJOR CONTOUR
- 48.20 — PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S — PROPOSED SEWER MAIN
- DD — 900mm DISH DRAIN. DETAIL ON C6011
- SD — 750mm SPOON DRAIN. DETAIL ON C6011
- CD — CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Subject to the conditions outlined in the consent

CONSTRUCTION TOLERANCES

BULK EARTHWORKS		
EARTHWORKS	-50mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)

TOLERANCE FOR EMBANKMENT BATTERS

LOCATION	TOLERANCE (mm)	
	SLOPE 1H:1V OR FLATTER	SLOPE STEEPER THAN 1H:1V
AT LEVEL OF TOP OF FORMATION/ UNDERSIDE OF PAVEMENT	+0/-150	+0/-150
BETWEEN TOP OF FORMATION AND 1m BELOW TOP OF FORMATION	+150/-150	+150/-150
BEYOND 1m BELOW TOP OF FORMATION	+300/-300	+300/-300

REFER TO TfNSW R44 SPECIFICATION

DIAL 1100 BEFORE YOU DIG

CONTRACTOR SHALL CALL;
DIAL BEFORE YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: mirvac

Scales: Grid MGA2020; Height Datum AHD; GDA2020

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: NOTES AND LEGENDS SHEET

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6002
Issue: 2

100mm on Original

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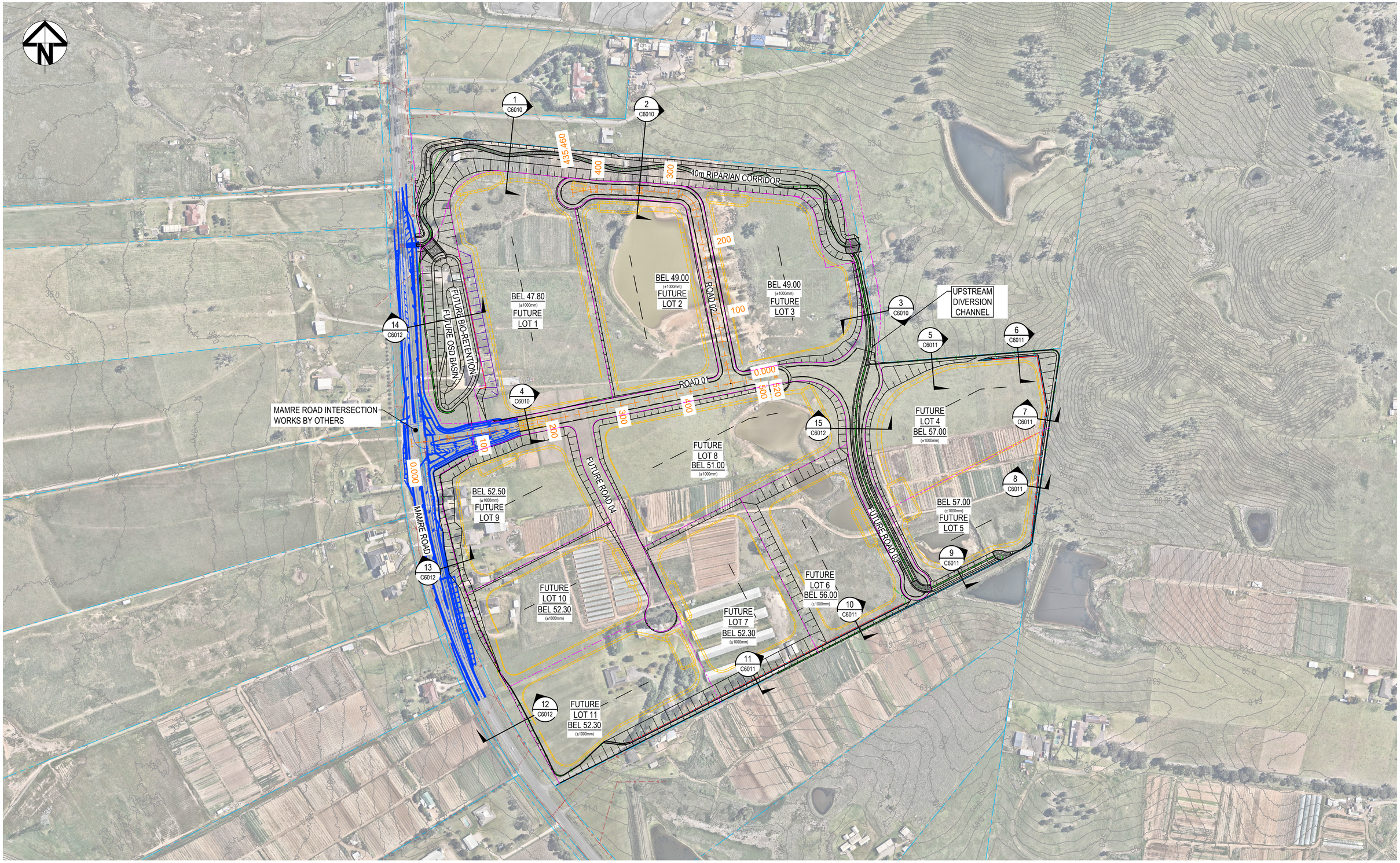

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

PENRITH CITY COUNCIL
This plan / document relates to
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent

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Client: mirvac

Scales	1:2500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C6003
Issue: 1

100mm on Original

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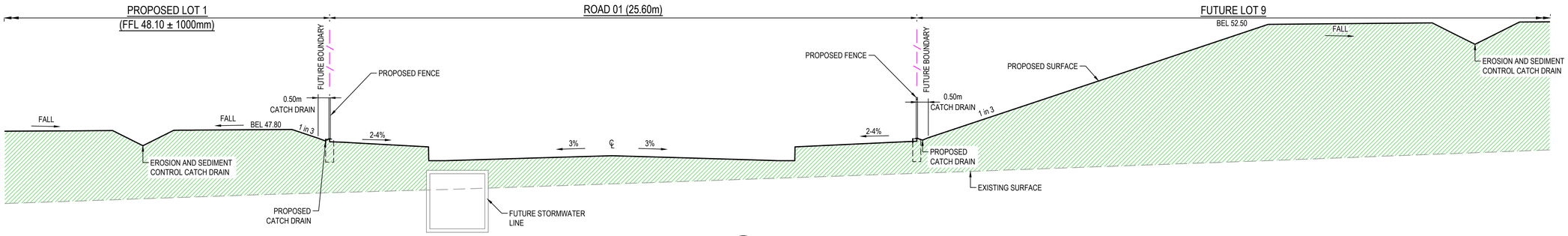
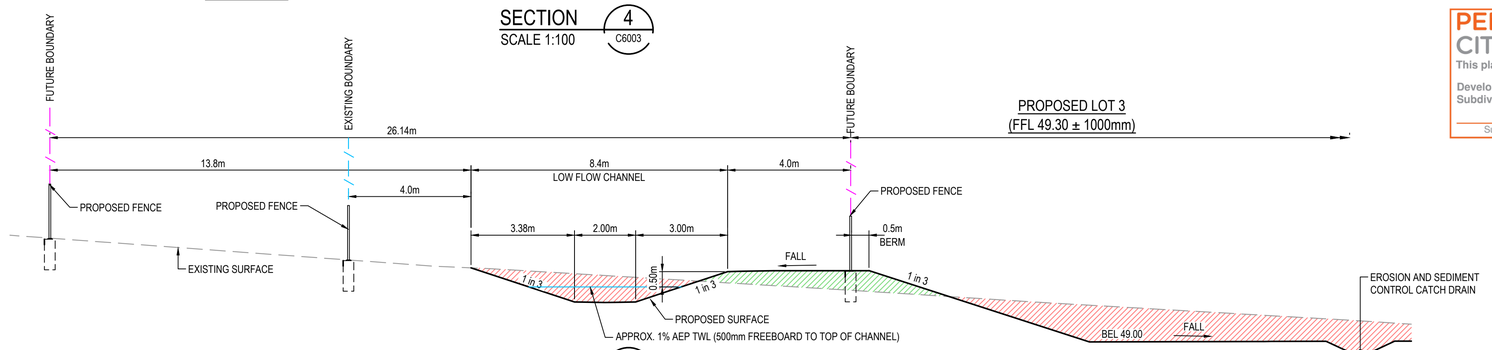
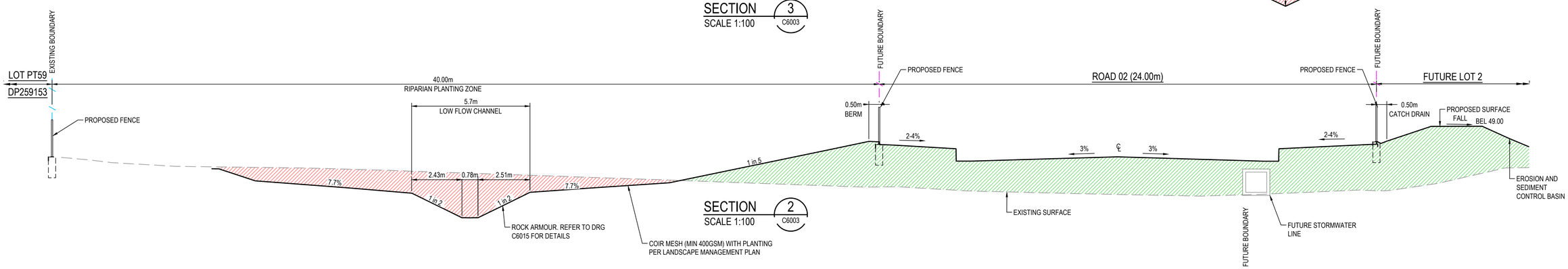


SECTION 4 C6003
SCALE 1:100



SECTION 3 C6003
SCALE 1:100



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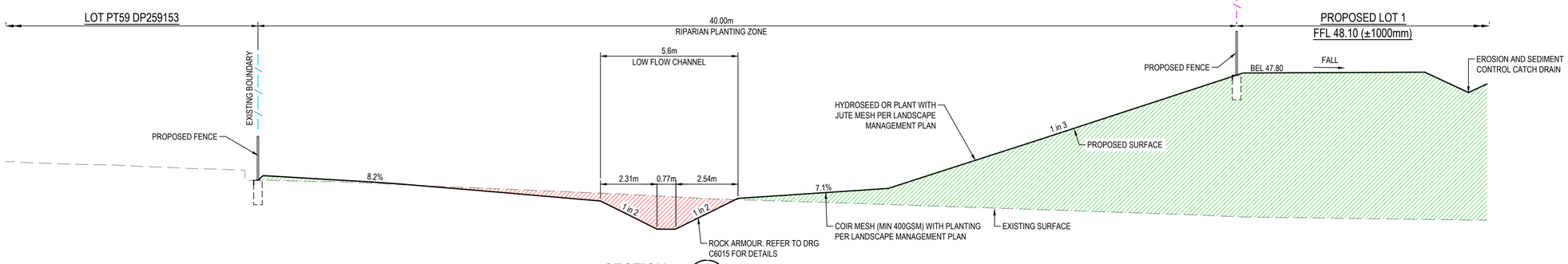

SECTION 1 C6003
SCALE 1:100

ALL BATTERS TO BE TREATED WITH POLYMER BASED SEDIMENT CONTROL PRODUCT PER MANUFACTURERS GUIDELINES TO REDUCE SCOUR AND SEDIMENT RUNOFF. UNLESS NOTED OTHERWISE ON THESE SECTIONS.

PENRITH CITY COUNCIL
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: TYPICAL SECTIONS
SHEET 1

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6010
Issue: 2

100mm on Original

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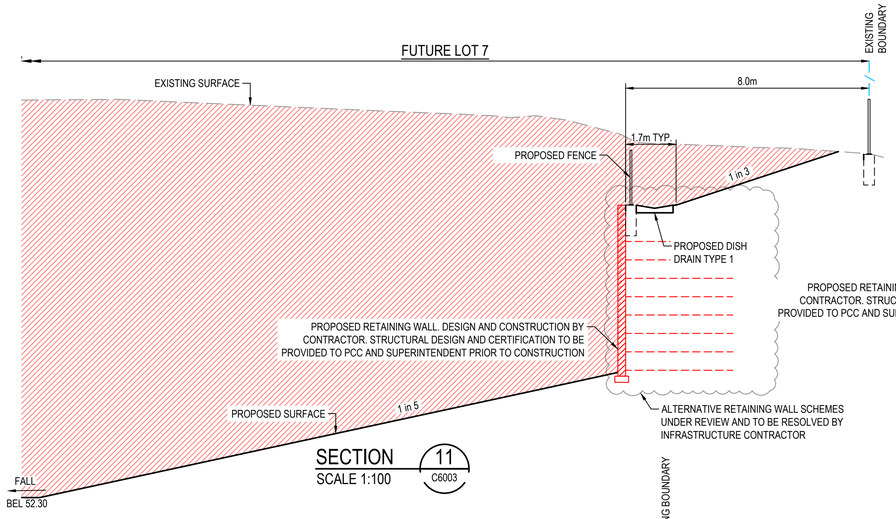
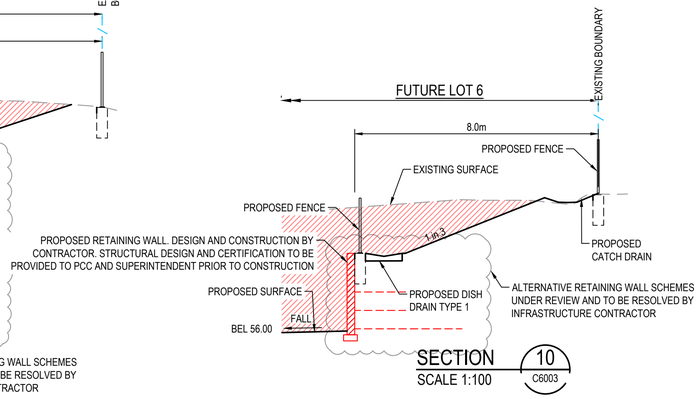
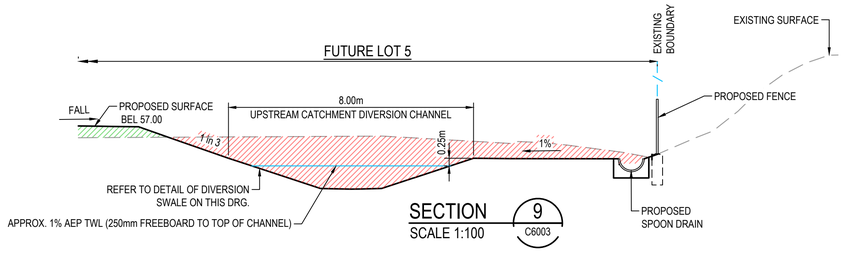


SECTION 11 C6003
SCALE 1:100



SECTION 10 C6003
SCALE 1:100



SECTION 9 C6003
SCALE 1:100

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This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
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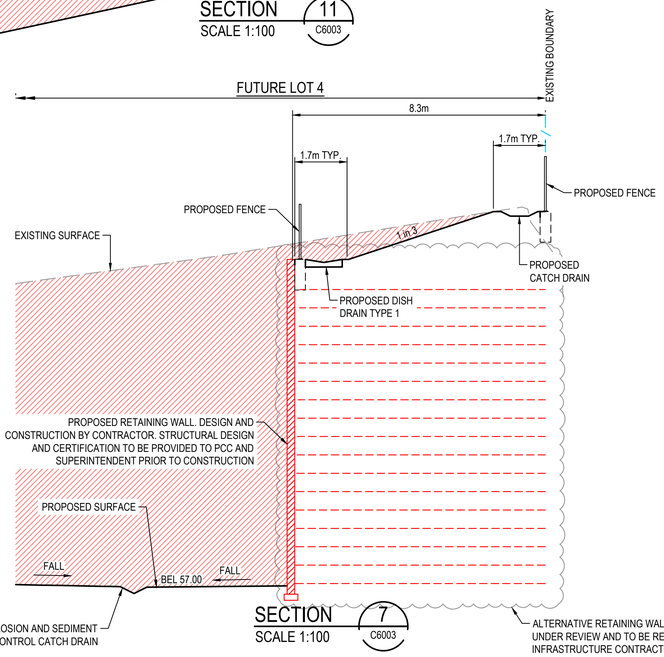
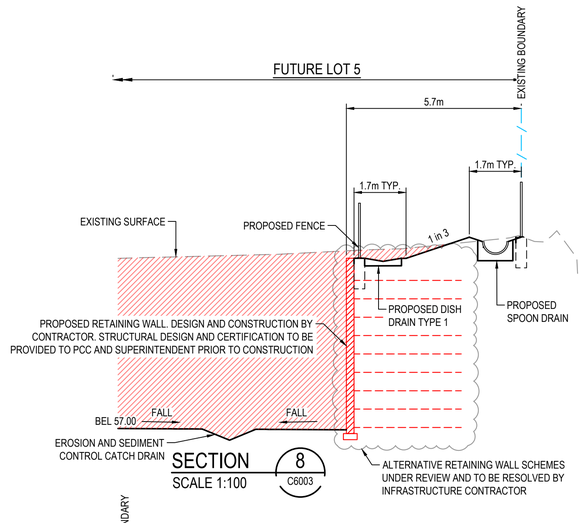
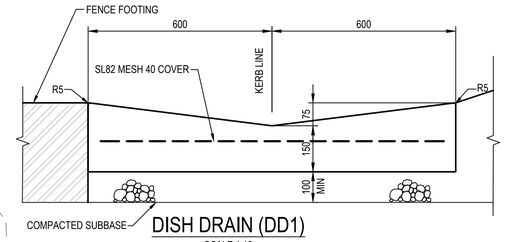


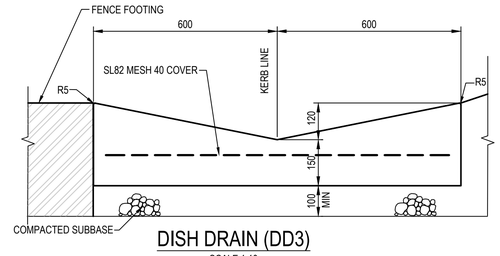
SECTION 7 C6003
SCALE 1:100



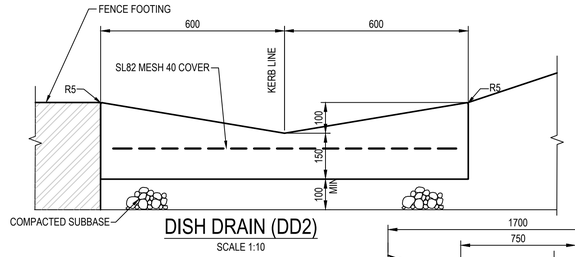
SECTION 8 C6003
SCALE 1:100



DISH DRAIN (DD1)
SCALE 1:10



DISH DRAIN (DD3)
SCALE 1:10



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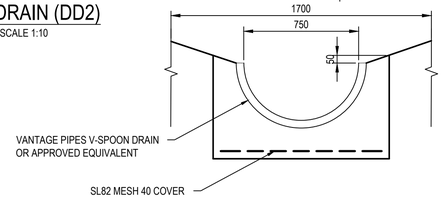
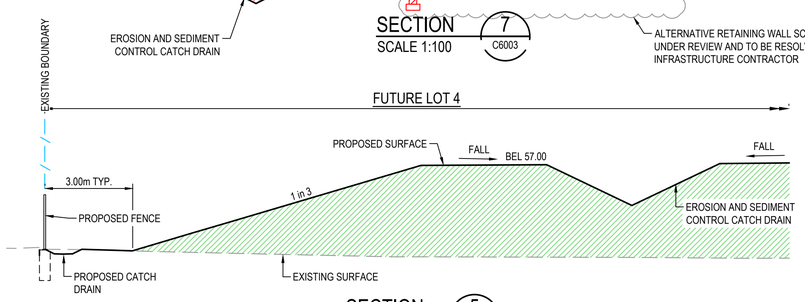
SCALE 1:10

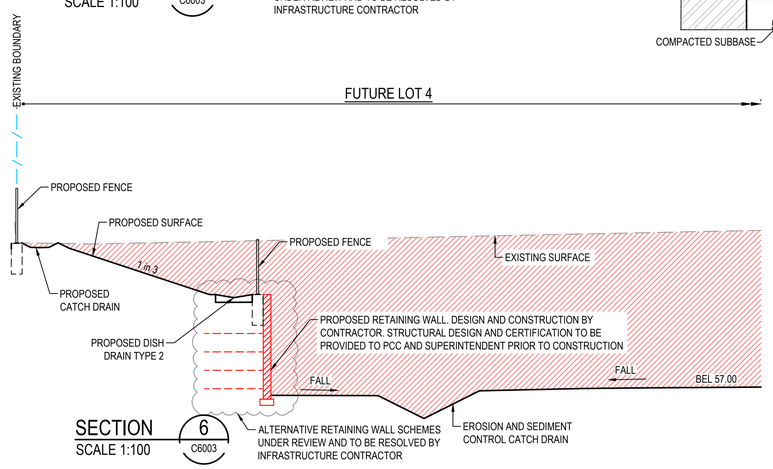


SPOON DRAIN (SD)
SCALE 1:10

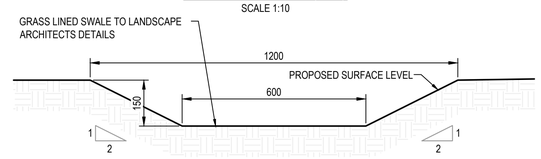


SECTION 5 C6003
SCALE 1:100

ALL BATTERS TO BE TREATED WITH POLYMER BASED SEDIMENT CONTROL PRODUCT PER MANUFACTURERS GUIDELINES TO REDUCE SCOUR AND SEDIMENT RUNOFF. UNLESS NOTED OTHERWISE ON THESE SECTIONS.



SECTION 6 C6003
SCALE 1:100



CATCH DRAIN (CD)
SCALE 1:10

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

100mm on Original

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: TYPICAL SECTIONS SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6011
Issue: 2

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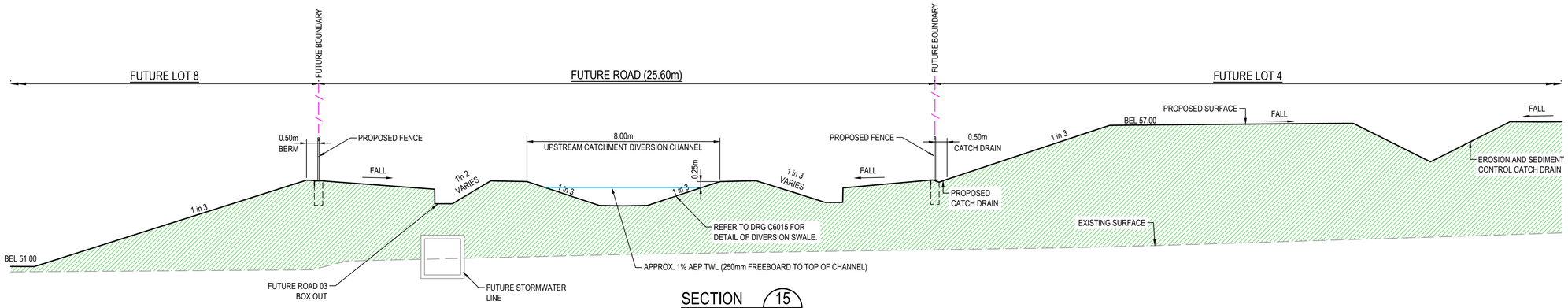
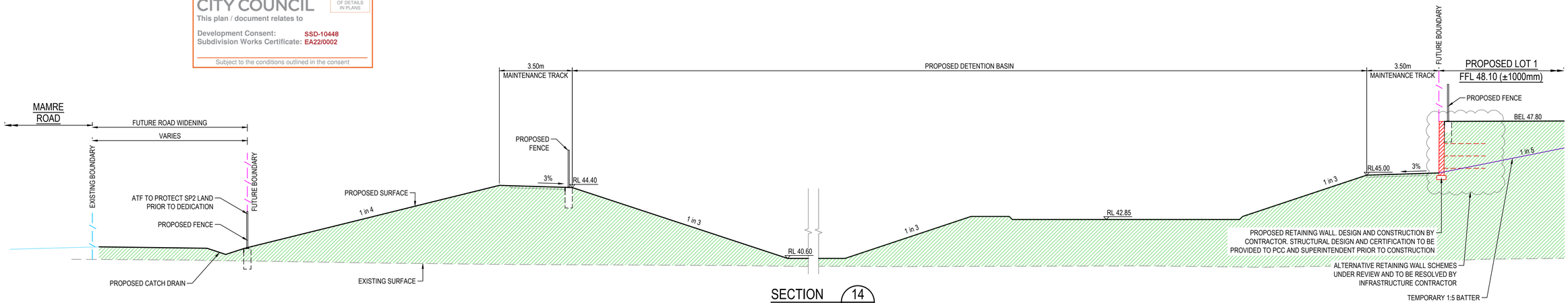


SECTION 15 C6003
SCALE 1:100

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS



SECTION 14 C6003
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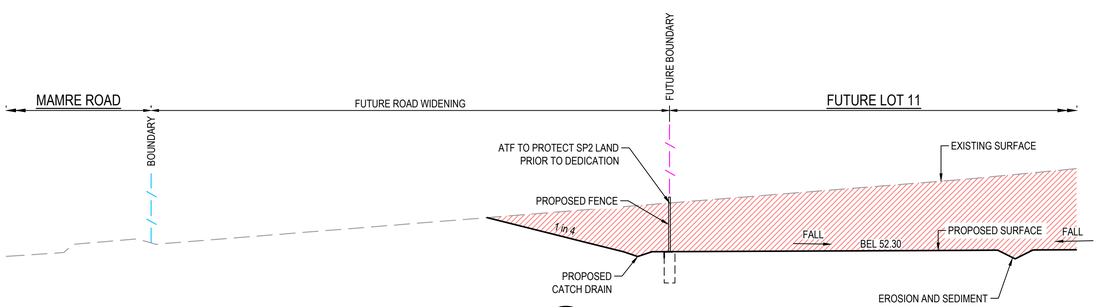
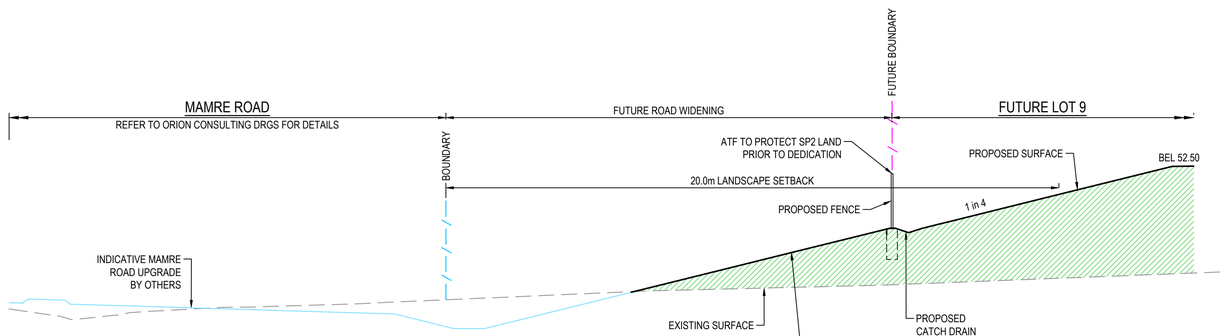


12 C6003 SECTION
SCALE 1:100



SECTION 13 C6003
SCALE 1:100

ALL BATTERS TO BE TREATED WITH POLYMER BASED SEDIMENT CONTROL PRODUCT PER MANUFACTURERS GUIDELINES TO REDUCE SCOUR AND SEDIMENT RUNOFF. UNLESS NOTED OTHERWISE ON THESE SECTIONS.

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales: 1:100
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
TYPICAL SECTIONS
SHEET 3

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
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info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6012
Issue: 2

100mm on Original

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ROCK GRADATION TABLE

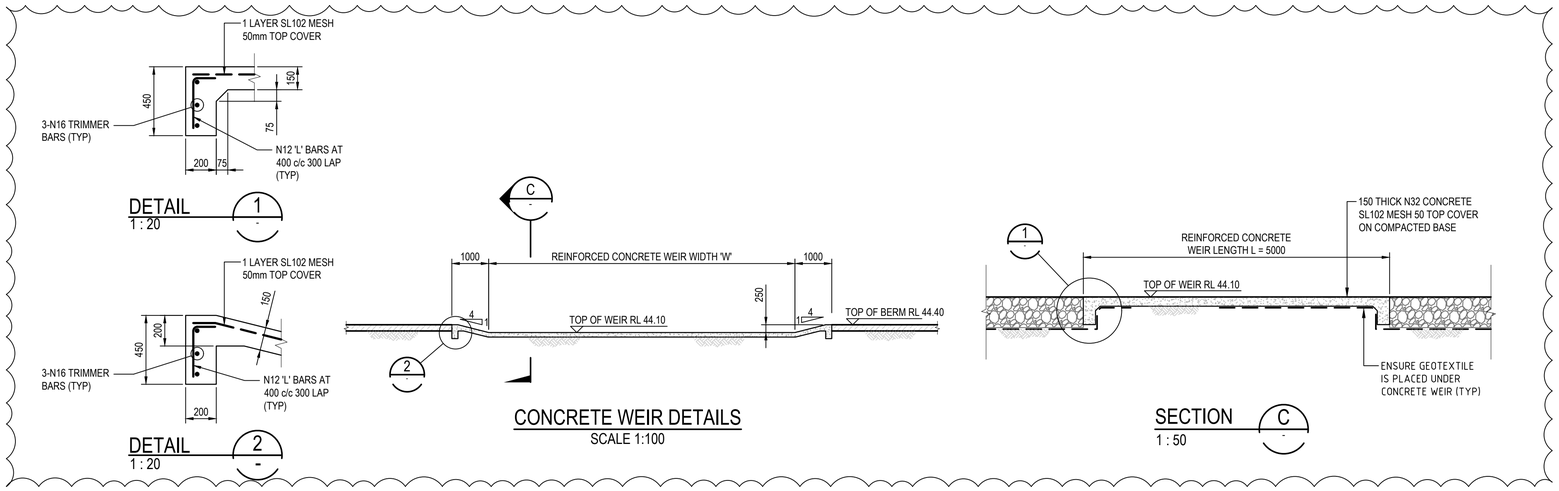
	d_{50}			ROCK DISTRIBUTION BY %
	200mm	300mm	500mm	
ROCK SIZE (mm)	400	600	850	15-25%
	300	400	600	20%
	200	300	500	50%
	75	100	150	15-25%

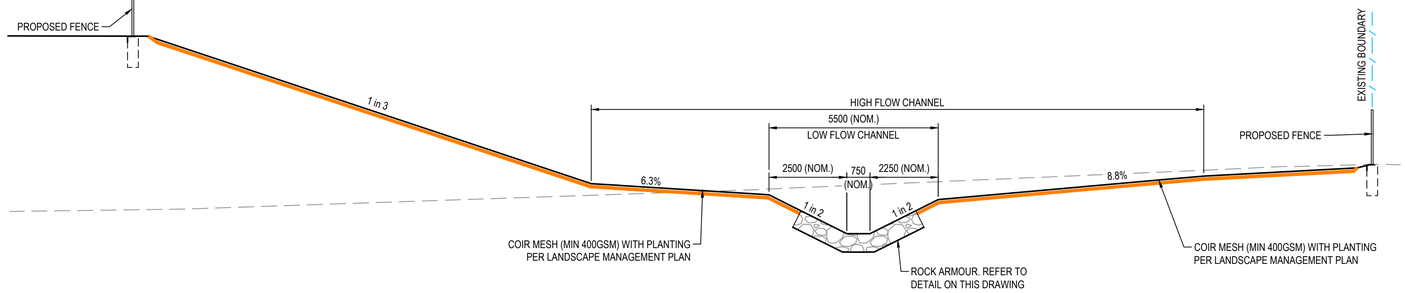
SCOUR PROTECTION SCHEDULE

OUTLET	NOMINAL ROCK SIZE (mm)	THICKNESS OF PROTECTION (mm)
	'dso'	'T'
DETENTION BASIN OUTLET	500	750
RIPARIAN CORRDIDOR	300	600
UPSTREAM DIVERSION CHANNEL	200	300

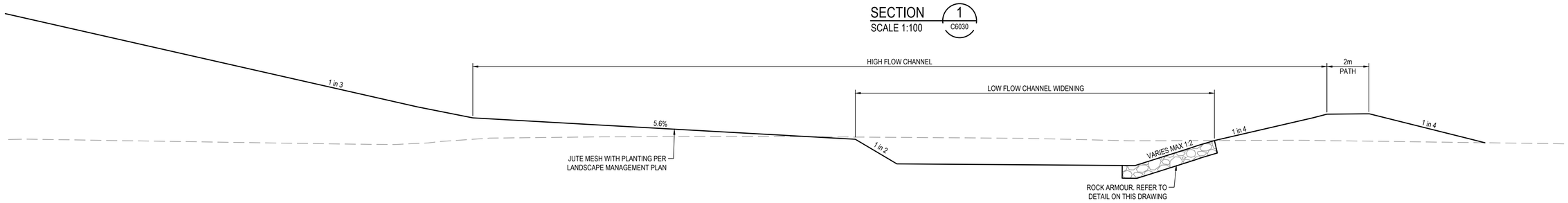
NOTE:
1. REFER PLANS FOR ACTUAL EXTENT OF SCOUR PROTECTION FOR CONSTRUCTION.
2. MINIMUM NOMINAL ROCK SIZE 'd50' IS 200mm.

HOLD





SECTION 1
SCALE 1:100
C6030



SECTION 2
SCALE 1:100
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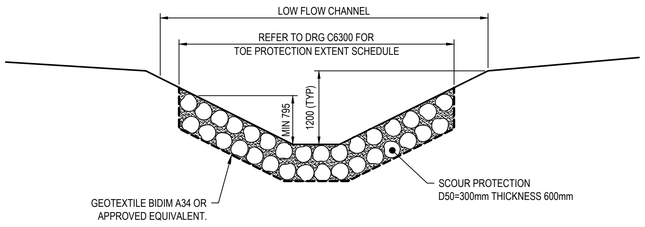
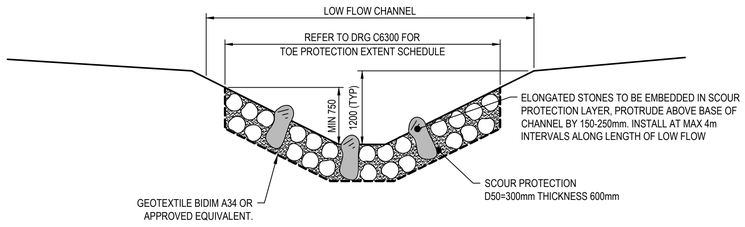
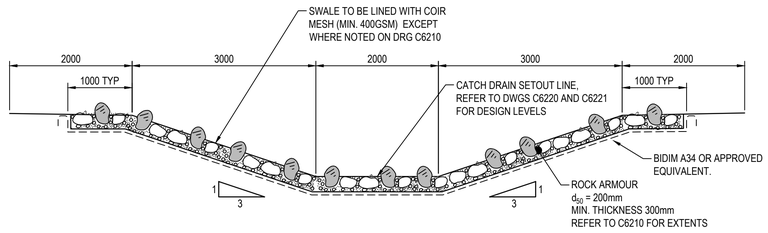


LOW FLOW CHANNEL PROTECTION DETAILS
SCALE 1:50



LOW FLOW CHANNEL PROTECTION DETAILS
CH170 TO CH220 ONLY
SCALE 1:50



TYPICAL STORMWATER DIVERSION CATCH DRAIN
SCALE 1:50
NOTES: REFER TO C6015 FOR ROCK GRADIATION TABLE

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	1:20 1:50 1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: TYPICAL SECTIONS SHEET 4

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ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No. 18-596-C6015
Issue 1

100mm on Original

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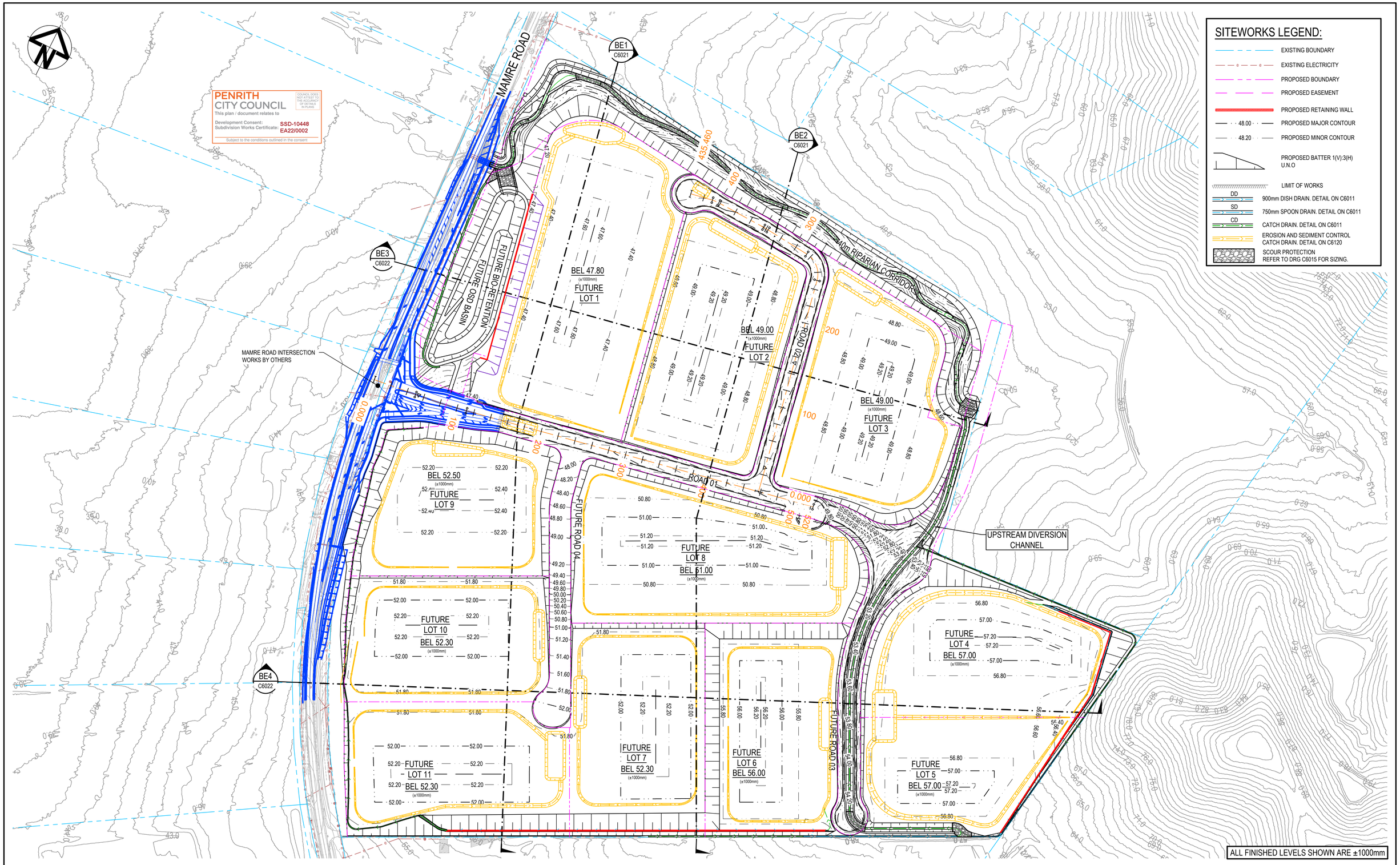

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

100mm on Original

Bar Scales

0 50 100 150 200m

1 : 2000 @ A1

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Client: mirvac

Scales	1:2000	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS CONTOUR PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6020

Issue: 1

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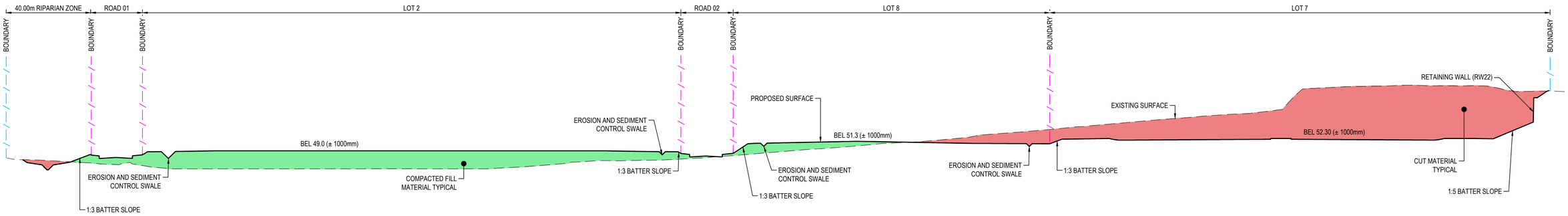
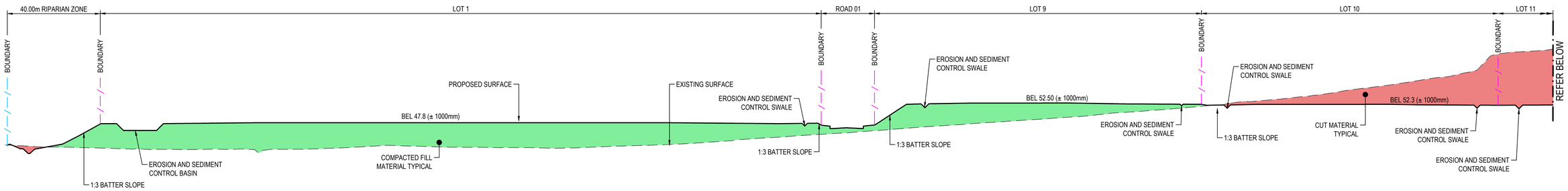
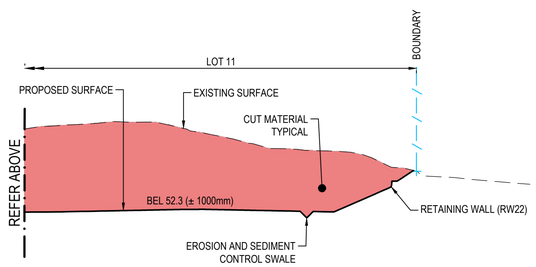


SECTION BE2 C6020
SCALE 1:1000(H) 1:500(V)





SECTION BE1 C6020
SCALE 1:1000(H) 1:500(V)

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

ALL FINISHED LEVELS SHOWN ARE ±1000mm

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 20 40 60 80 100m
1 : 1000 @ A1 1 : 2000 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales	1:1000(H) 1:500(V)	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS SECTIONS SHEET 1

Civil Engineers and Project Managers
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ABN 96 130 882 405
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6021
Issue: 2

100mm on Original

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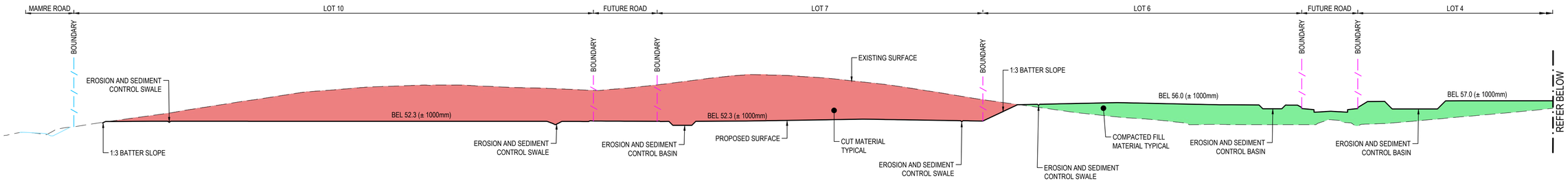

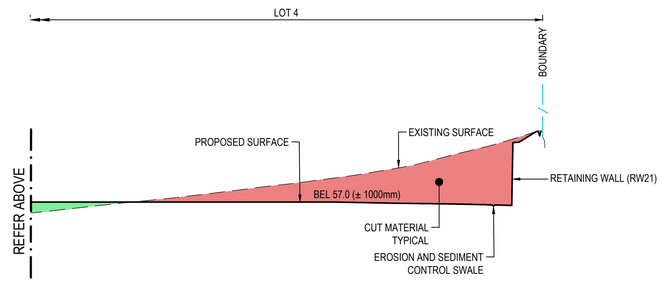

SECTION BE4 C6020
SCALE 1:1000(H) 1:500(V)

PENRITH CITY COUNCIL
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Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
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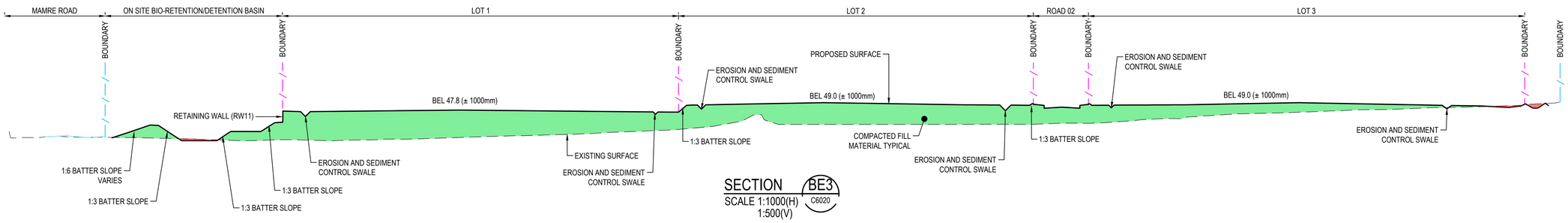

SECTION BE3 C6020
SCALE 1:1000(H) 1:500(V)

ALL FINISHED LEVELS SHOWN ARE ±1000mm

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 20 40 60 80 100m
1 : 1000 @ A1 1 : 2000 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales: 1:1000(H) 1:500(V)
Grid: MGA2020
Height Datum: AHD
Drawn: KLR
Designed: KLR
Checked: DS
Approved: AT
GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS SECTIONS SHEET 2

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Status: FOR CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C6022
Issue: 1

100mm on Original

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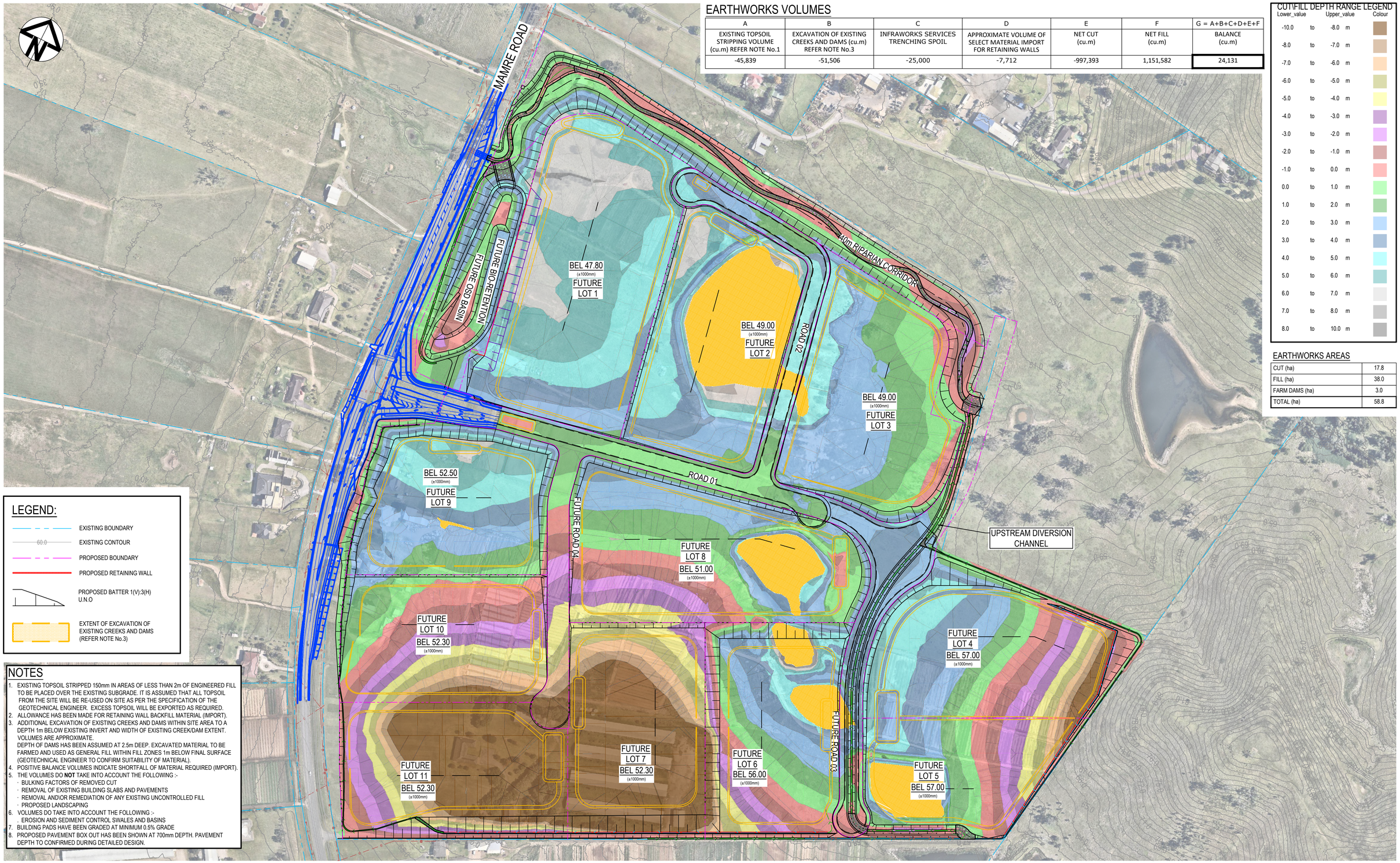

EARTHWORKS VOLUMES

A	B	C	D	E	F	G = A+B+C+D+E+F
EXISTING TOPSOIL STRIPPING VOLUME (cu.m) REFER NOTE No.1	EXCAVATION OF EXISTING CREEKS AND DAMS (cu.m) REFER NOTE No.3	INFRAWORKS SERVICES TRENCHING SPOIL	APPROXIMATE VOLUME OF SELECT MATERIAL IMPORT FOR RETAINING WALLS	NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-45,839	-51,506	-25,000	-7,712	-997,393	1,151,582	24,131

CUT/FILL DEPTH RANGE LEGEND

Lower_value		Upper_value		Colour
-10.0	to	-8.0	m	
-8.0	to	-7.0	m	
-7.0	to	-6.0	m	
-6.0	to	-5.0	m	
-5.0	to	-4.0	m	
-4.0	to	-3.0	m	
-3.0	to	-2.0	m	
-2.0	to	-1.0	m	
-1.0	to	0.0	m	
0.0	to	1.0	m	
1.0	to	2.0	m	
2.0	to	3.0	m	
3.0	to	4.0	m	
4.0	to	5.0	m	
5.0	to	6.0	m	
6.0	to	7.0	m	
7.0	to	8.0	m	
8.0	to	10.0	m	

EARTHWORKS AREAS

CUT (ha)	17.8
FILL (ha)	38.0
FARM DAMS (ha)	3.0
TOTAL (ha)	58.8

LEGEND:

- EXISTING BOUNDARY
- 60.0 EXISTING CONTOUR
- PROPOSED BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED BATTER 1(V):3(H) U.N.O
- EXTENT OF EXCAVATION OF EXISTING CREEKS AND DAMS (REFER NOTE No.3)

NOTES

1. EXISTING TOPSOIL STRIPPED 150mm IN AREAS OF LESS THAN 2m OF ENGINEERED FILL TO BE PLACED OVER THE EXISTING SUBGRADE. IT IS ASSUMED THAT ALL TOPSOIL FROM THE SITE WILL BE RE-USED ON SITE AS PER THE SPECIFICATION OF THE GEOTECHNICAL ENGINEER. EXCESS TOPSOIL WILL BE EXPORTED AS REQUIRED.
2. ALLOWANCE HAS BEEN MADE FOR RETAINING WALL BACKFILL MATERIAL (IMPORT).
3. ADDITIONAL EXCAVATION OF EXISTING CREEKS AND DAMS WITHIN SITE AREA TO A DEPTH 1m BELOW EXISTING INVERT AND WIDTH OF EXISTING CREEK/DAM EXTENT. VOLUMES ARE APPROXIMATE.
   DEPTH OF DAMS HAS BEEN ASSUMED AT 2.5m DEEP. EXCAVATED MATERIAL TO BE FARMED AND USED AS GENERAL FILL WITHIN FILL ZONES 1m BELOW FINAL SURFACE (GEOTECHNICAL ENGINEER TO CONFIRM SUITABILITY OF MATERIAL).
4. POSITIVE BALANCE VOLUMES INDICATE SHORTFALL OF MATERIAL REQUIRED (IMPORT).
5. THE VOLUMES DO **NOT** TAKE INTO ACCOUNT THE FOLLOWING :-
   - BULKING FACTORS OF REMOVED CUT
   - REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
   - REMOVAL AND\OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
   - PROPOSED LANDSCAPING
6. VOLUMES DO TAKE INTO ACCOUNT THE FOLLOWING :-
   - EROSION AND SEDIMENT CONTROL SWALES AND BASINS
7. BUILDING PADS HAVE BEEN GRADED AT MINIMUM 0.5% GRADE
8. PROPOSED PAVEMENT BOX OUT HAS BEEN SHOWN AT 700mm DEPTH. PAVEMENT DEPTH TO CONFIRMED DURING DETAILED DESIGN.

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 50 100 150 200m

1 : 2000 @ A1

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
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Client: mirvac

Scales	1:2000	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS CUT/FILL PLAN

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info@atl.net.au

Status: FOR CONSTRUCTION | A1

Project - Drawing No.: 18-596-C6025 | Issue: 1

100mm on Original

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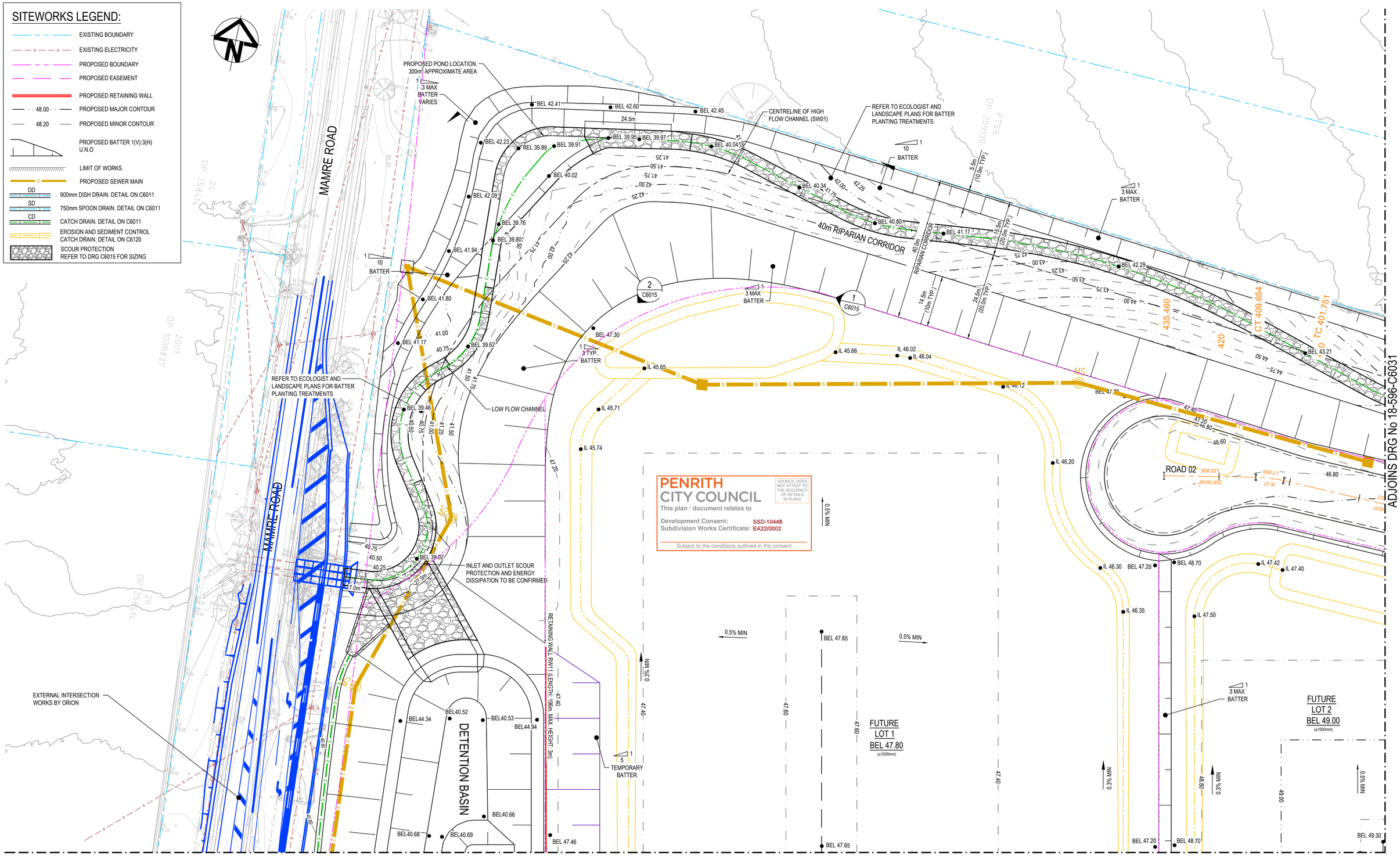
SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 PROPOSED MAJOR CONTOUR
- 48.20 PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S PROPOSED SEWER MAIN
- DD 900mm DISH DRAIN. DETAIL ON C6011
- SD 750mm SPOON DRAIN. DETAIL ON C6011
- CD CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING



Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS PLAN SHEET 1

Civil Engineers and Project Managers
at&l
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North Sydney NSW 2060
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Fax: 02 9923 1055
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info@atl.net.au

Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C6030 — Issue: 2

100mm on Original

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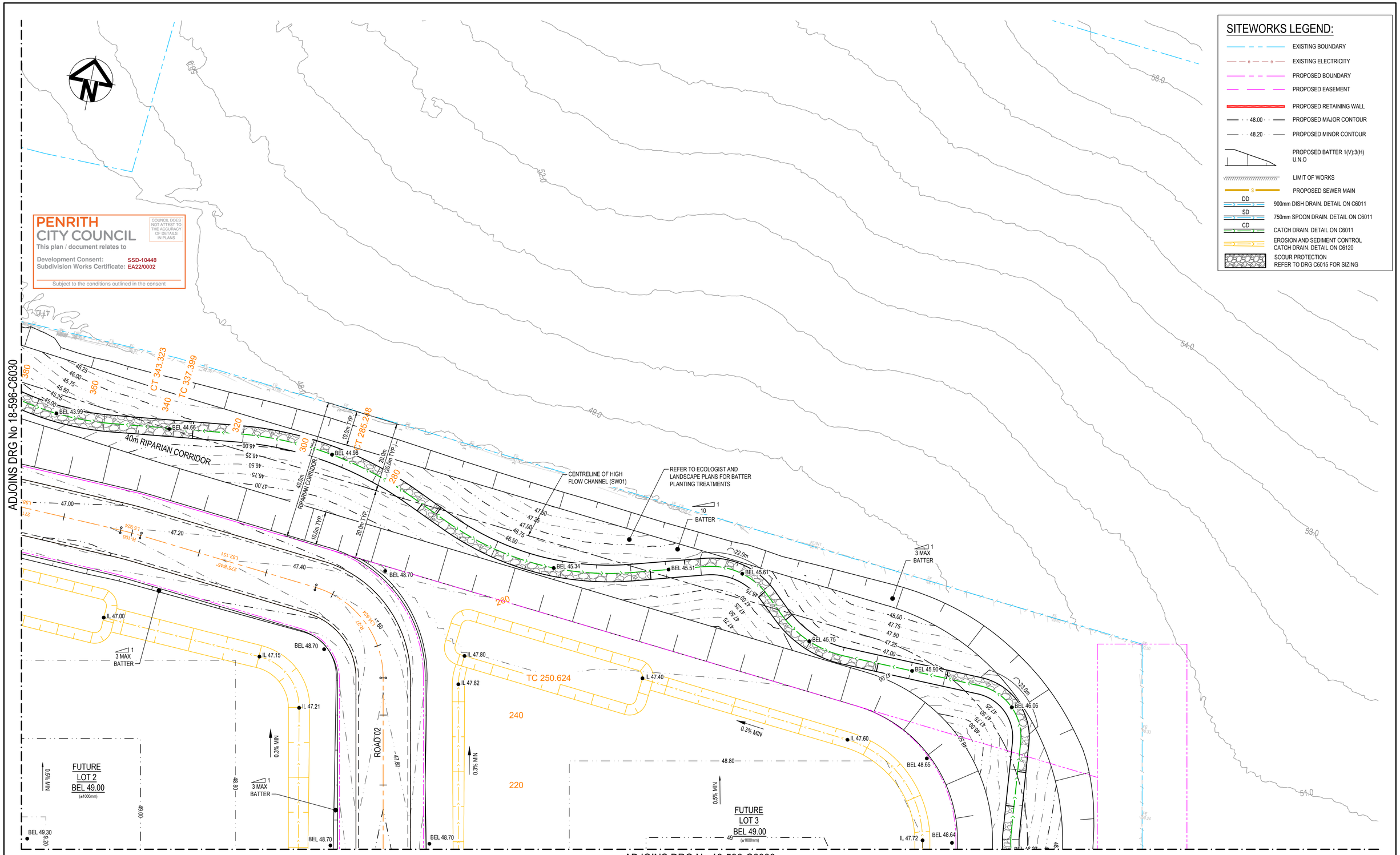
SITEWORKS LEGEND:
EXISTING BOUNDARY
EXISTING ELECTRICITY
PROPOSED BOUNDARY
PROPOSED EASEMENT
PROPOSED RETAINING WALL
48.00
PROPOSED MAJOR CONTOUR
48.20
PROPOSED MINOR CONTOUR
PROPOSED BATTER 1(V):3(H) U.N.O
LIMIT OF WORKS
S
PROPOSED SEWER MAIN
DD
900mm DISH DRAIN. DETAIL ON C6011
SD
750mm SPOON DRAIN. DETAIL ON C6011
CD
CATCH DRAIN. DETAIL ON C6011
EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING
PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
ADJOINS DRG No 18-596-C6030
ADJOINS DRG No 18-596-C6033
40m RIPARIAN CORRIDOR
CT 343.323
TC 337.399
CT 285.248
TC 250.624
CENTRELINE OF HIGH FLOW CHANNEL (SW01)
REFER TO ECOLOGIST AND LANDSCAPE PLANS FOR BATTER PLANTING TREATMENTS
1 10 BATTER
1 3 MAX BATTER
ROAD 02
0.3% MIN
0.5% MIN
FUTURE LOT 2 BEL 49.00 (±1000mm)
FUTURE LOT 3 BEL 49.00 (±1000mm)
BEL 43.99
BEL 44.66
BEL 44.98
BEL 45.34
BEL 45.51
BEL 45.61
BEL 45.75
BEL 45.90
BEL 46.06
BEL 48.70
BEL 48.65
BEL 48.64
BEL 49.30
IL 47.00
IL 47.15
IL 47.21
IL 47.80
IL 47.82
IL 47.40
IL 47.60
IL 47.72
22.0m
23.0m
20.0m (20.0m TYP)
10.0m TYP
20.0m TYP
40.0m RIPARIAN CORRIDOR
48.80
49.00
47.80
47.40
47.20
47.00
46.25
46.00
45.75
45.50
45.25
45.00
46.50
46.75
47.50
47.75
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47.25
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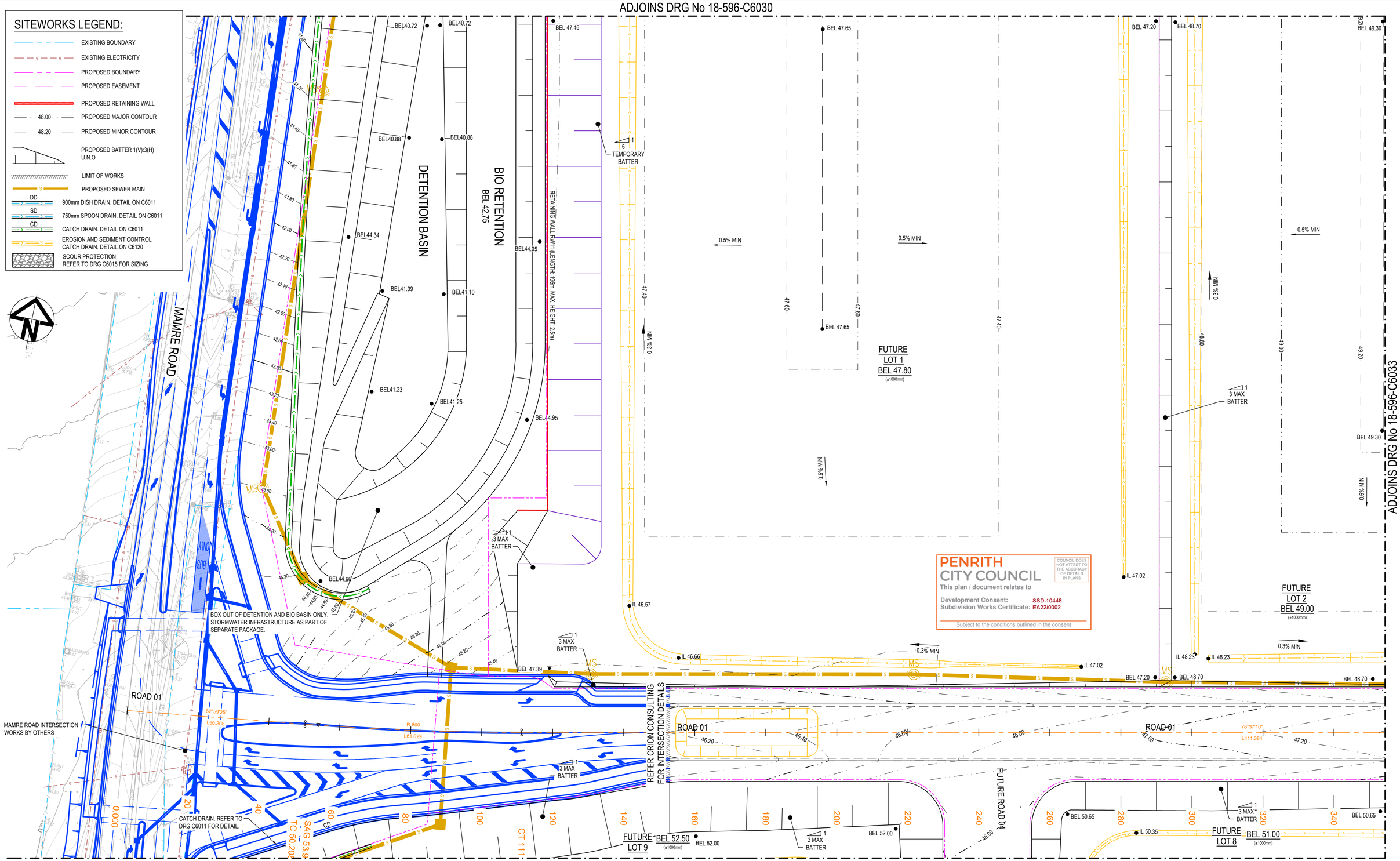

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

BULK EARTHWORKS PLAN
SHEET 3

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
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info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6032

Issue: 2

100mm on Original

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ADJOINS DRG No 18-596-C6031

ADJOINS DRG No 18-596-C6032

ADJOINS DRG No 18-596-C6035

ADJOINS DRG No 18-596-C6036

SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 PROPOSED MAJOR CONTOUR
- 48.20 PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S PROPOSED SEWER MAIN
- DD 900mm DISH DRAIN. DETAIL ON C6011
- SD 750mm SPOON DRAIN. DETAIL ON C6011
- CD CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
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FUTURE LOT 2 BEL 49.00 (±1000mm)

FUTURE LOT 3 BEL 49.00 (±1000mm)

FUTURE LOT 8 BEL 51.00 (±1000mm)

ROAD 01

ROAD 02

FUTURE ROAD 03

40m RIPARIAN CORRIDOR

CREST 152.812

SAG 28.143

UPSTREAM CATCHMENT DIVERSION CHANNEL. REFER TO TO DRG 18-596-C6011 FOR DETAIL

CATCH DRAIN TO CONNECT INTO DIVERSION CHANNEL. REFER TO DRG C6011 FOR DETAIL.

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

100mm on Original

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales: 1:500
Grid: MGA2020
Height Datum: AHD

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT

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GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS PLAN SHEET 4

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C6033
Issue: 2

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ADJOINS DRG No 18-596-C6032

SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 PROPOSED MAJOR CONTOUR
- 48.20 PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S PROPOSED SEWER MAIN
- DD 900mm DISH DRAIN. DETAIL ON C6011
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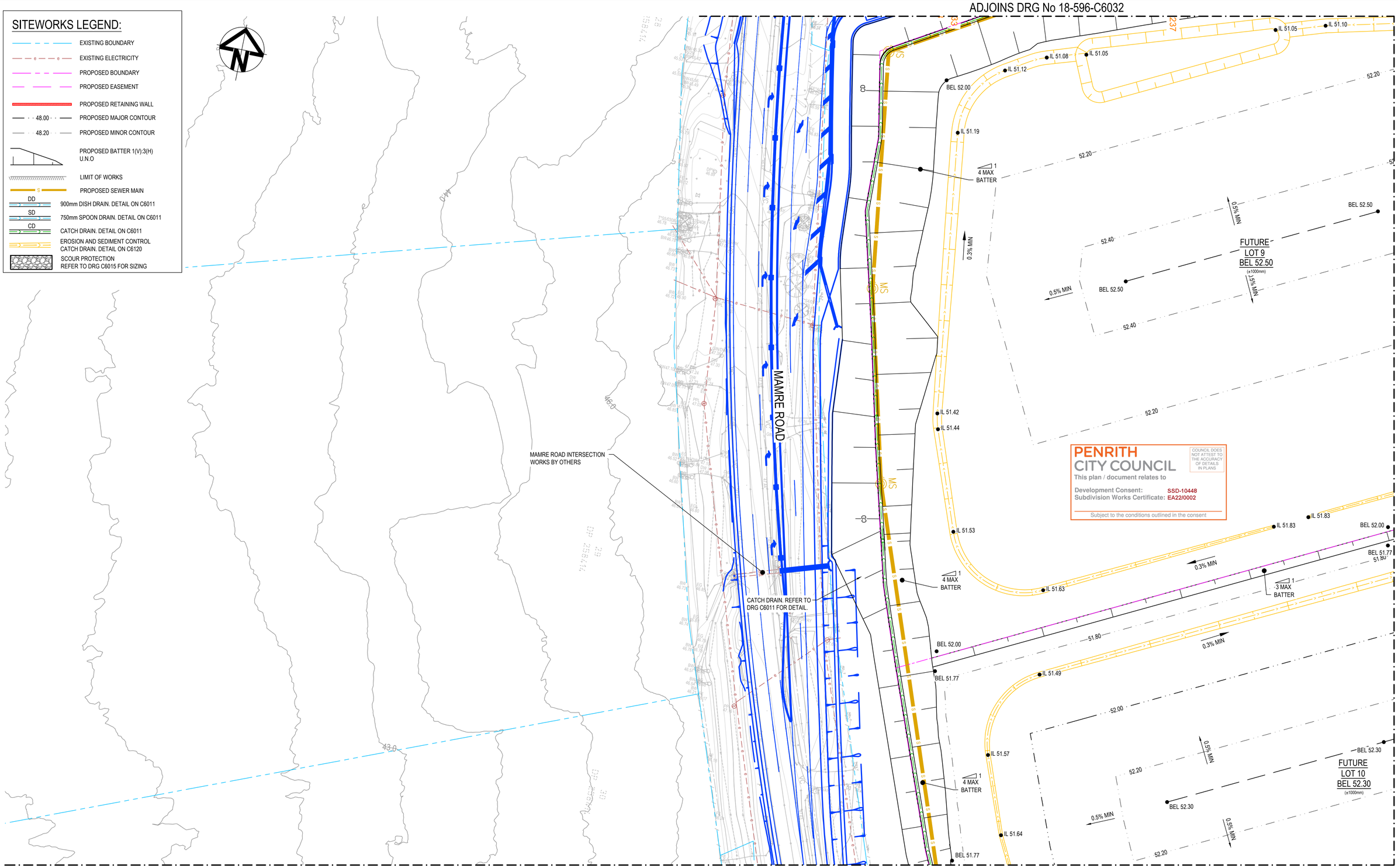
- CD CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING



PENRITH CITY COUNCIL
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ADJOINS DRG No 18-596-C6035

ADJOINS DRG No 18-596-C6037

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales: 1:500
Grid: MGA2020
Height Datum: AHD
Drawn: KLR
Designed: KLR
Checked: DS
Approved: AT

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Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS PLAN SHEET 5

Civil Engineers and Project Managers
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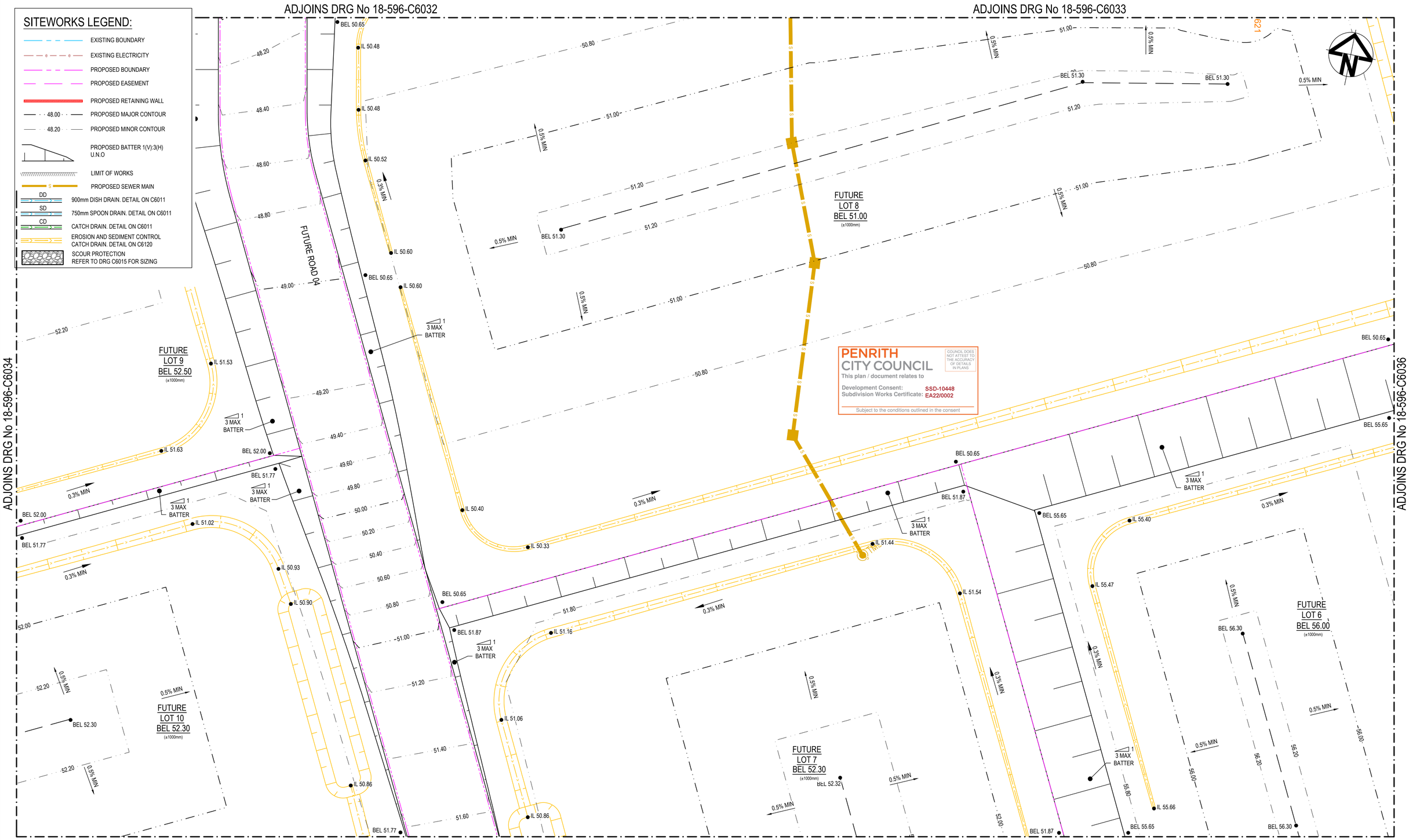
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6034
Issue: 2

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6034.dwg



Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

BULK EARTHWORKS
PLAN
SHEET 6

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C6035

Issue 2

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6035.dwg

ADJOINS DRG No 18-596-C6033

ADJOINS DRG No 18-596-C6035

UPSTREAM CATCHMENT DIVERSION CHANNEL. REFER TO TO DRG 18-596-C6011 FOR DETAIL

RETAINING WALL RW21 (LENGTH: 307m, MAX. HEIGHT: 11.5m)

DISH DRAIN TO CONNECT INTO SEDIMENT AND EROSION CONTROL CATCH DRAIN

DISH DRAIN TYPE 2 BEHIND RETAINING WALL. REFER TO DRG C6011 FOR DETAIL.

CATCH DRAIN. REFER TO DRG C6011 FOR DETAIL.

SMOOTHLY TRANSITION CATCH DRAIN INTO SPOON DRAIN. CONTRACTOR TO ENSURE NO PONDING TO OCCUR.

DISH DRAIN TYPE 1 BEHIND RETAINING WALL. REFER TO DRG C6011 FOR DETAIL.

SPOON DRAIN. REFER TO DRG C6011 FOR DETAIL.

UPSTREAM CATCHMENT DIVERSION CHANNEL. REFER TO TO DRG 18-596-C6011 FOR DETAIL

FUTURE LOT 8 BEL 51.00 (±1000mm)

FUTURE LOT 4 BEL 57.00 (±1000mm)

FUTURE LOT 6 BEL 56.00 (±1000mm)

FUTURE LOT 5 BEL 57.00 (±1000mm)

FUTURE ROAD 03

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to

Development Consent: SSD-10448

Subdivision Works Certificate: EA22/0002

Subject to the conditions outlined in the consent

SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 — PROPOSED MAJOR CONTOUR
- 48.20 — PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S — PROPOSED SEWER MAIN
- DD — 900mm DISH DRAIN. DETAIL ON C6011
- SD — 750mm SPOON DRAIN. DETAIL ON C6011
- CD — CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING

ADJOINS DRG No 18-596-C6039

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 | SHEET 2 | SHEET 3 | SHEET 4 | SHEET 5 | SHEET 6 | SHEET 7 | SHEET 8 | SHEET 9 | SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

BULK EARTHWORKS PLAN SHEET 7

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
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info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C6036

Issue 2

100mm on Original

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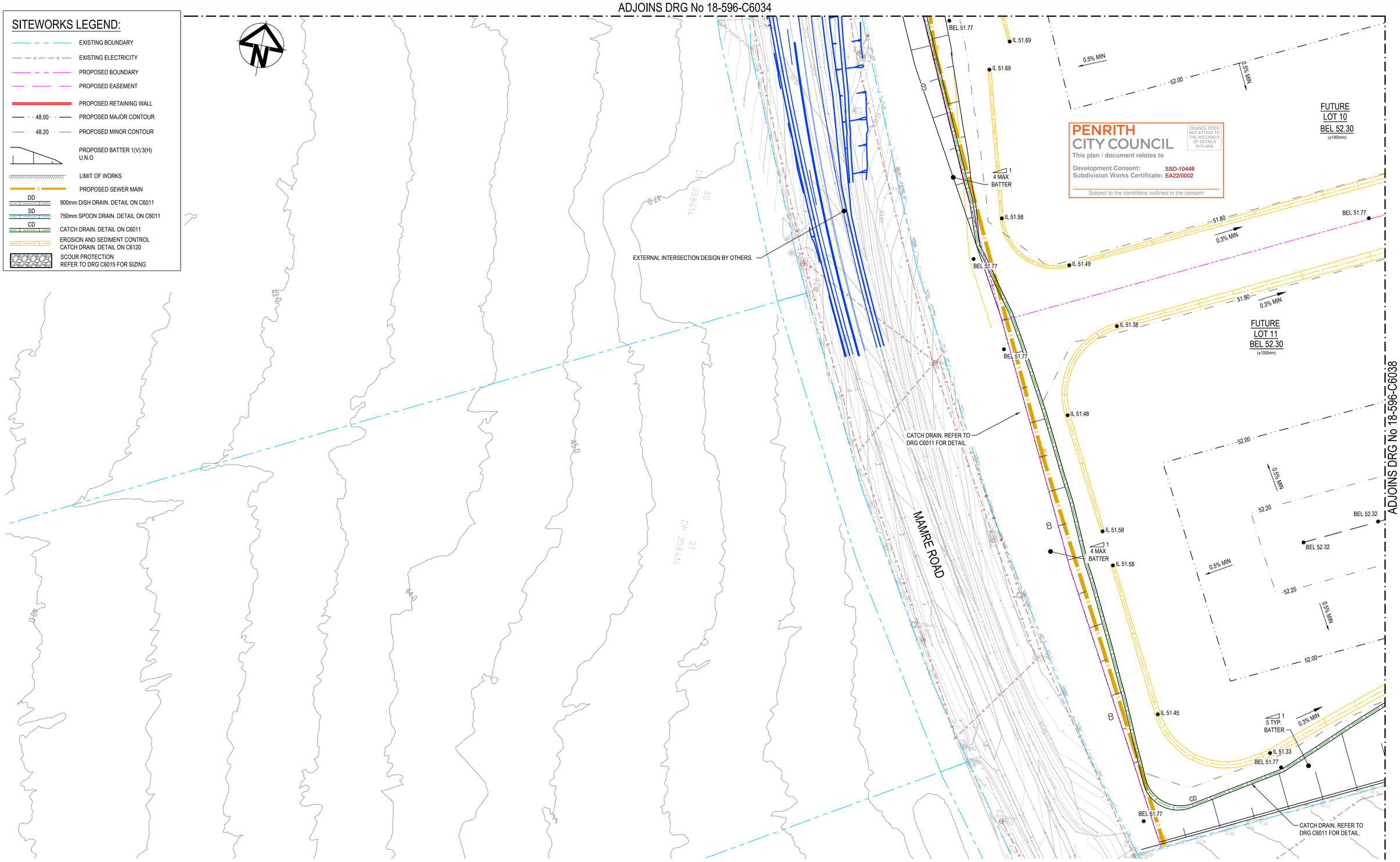
ADJOINS DRG No 18-596-C6034

SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 PROPOSED MAJOR CONTOUR
- 48.20 PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S PROPOSED SEWER MAIN
- DD 900mm DISH DRAIN. DETAIL ON C6011
- SD 750mm SPOON DRAIN. DETAIL ON C6011
- CD CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING



PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Subject to the conditions outlined in the consent

ADJOINS DRG No 18-596-C6038

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: BULK EARTHWORKS PLAN SHEET 8

Civil Engineers and Project Managers
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North Sydney NSW 2060
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Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C6037 — Issue: 2

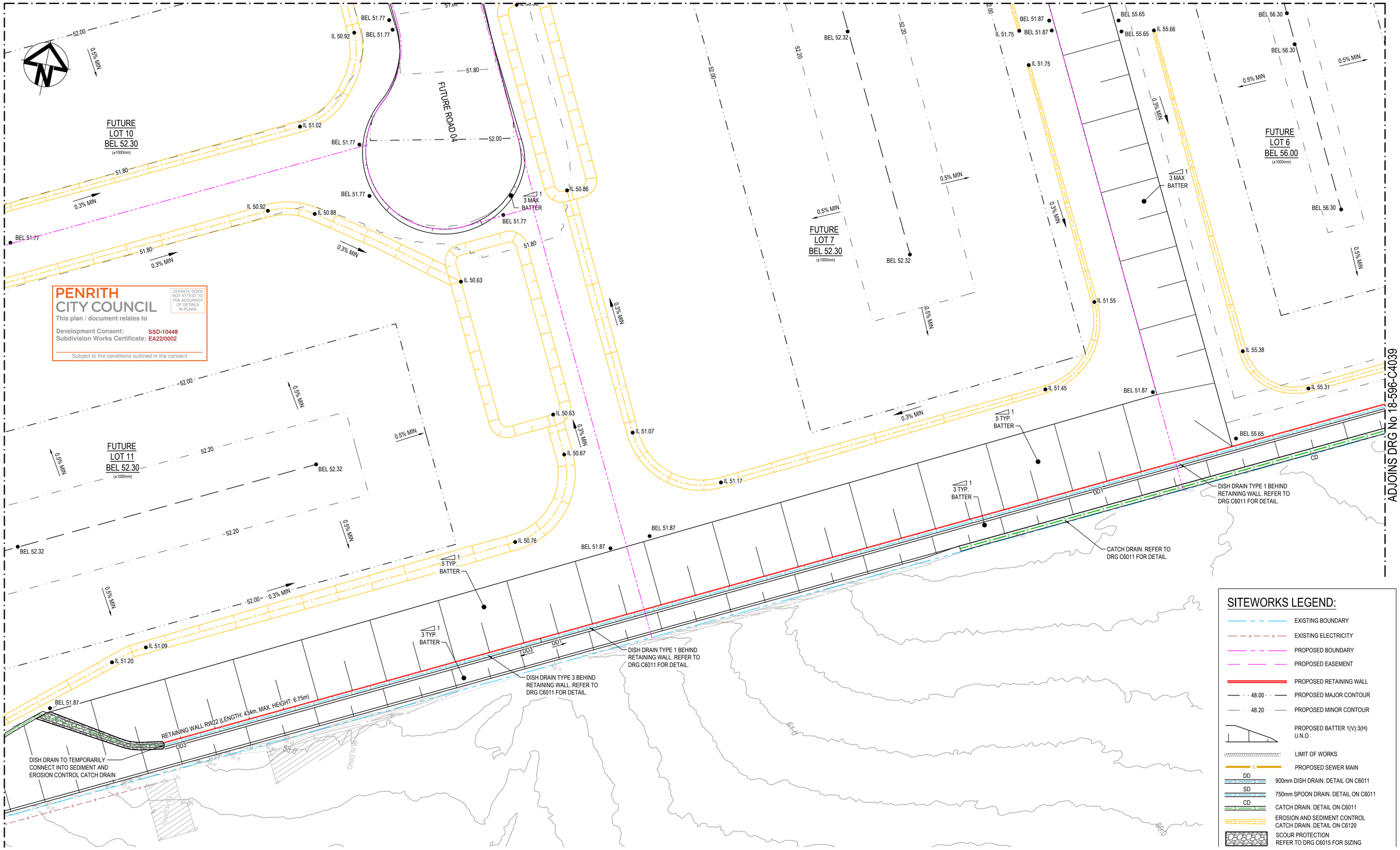
100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6037.dwg

ADJOINS DRG No 18-596-C6035

ADJOINS DRG No 18-596-C6037

ADJOINS DRG No 18-596-C4039



SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 PROPOSED MAJOR CONTOUR
- 48.20 PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S PROPOSED SEWER MAIN
- DD 900mm DISH DRAIN. DETAIL ON C6011
- SD 750mm SPOON DRAIN. DETAIL ON C6011
- CD CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2
SHEET 3 SHEET 4
SHEET 5 SHEET 6 SHEET 7
SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

BULK EARTHWORKS
PLAN
SHEET 9

Civil Engineers and Project Managers

at&l

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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6038

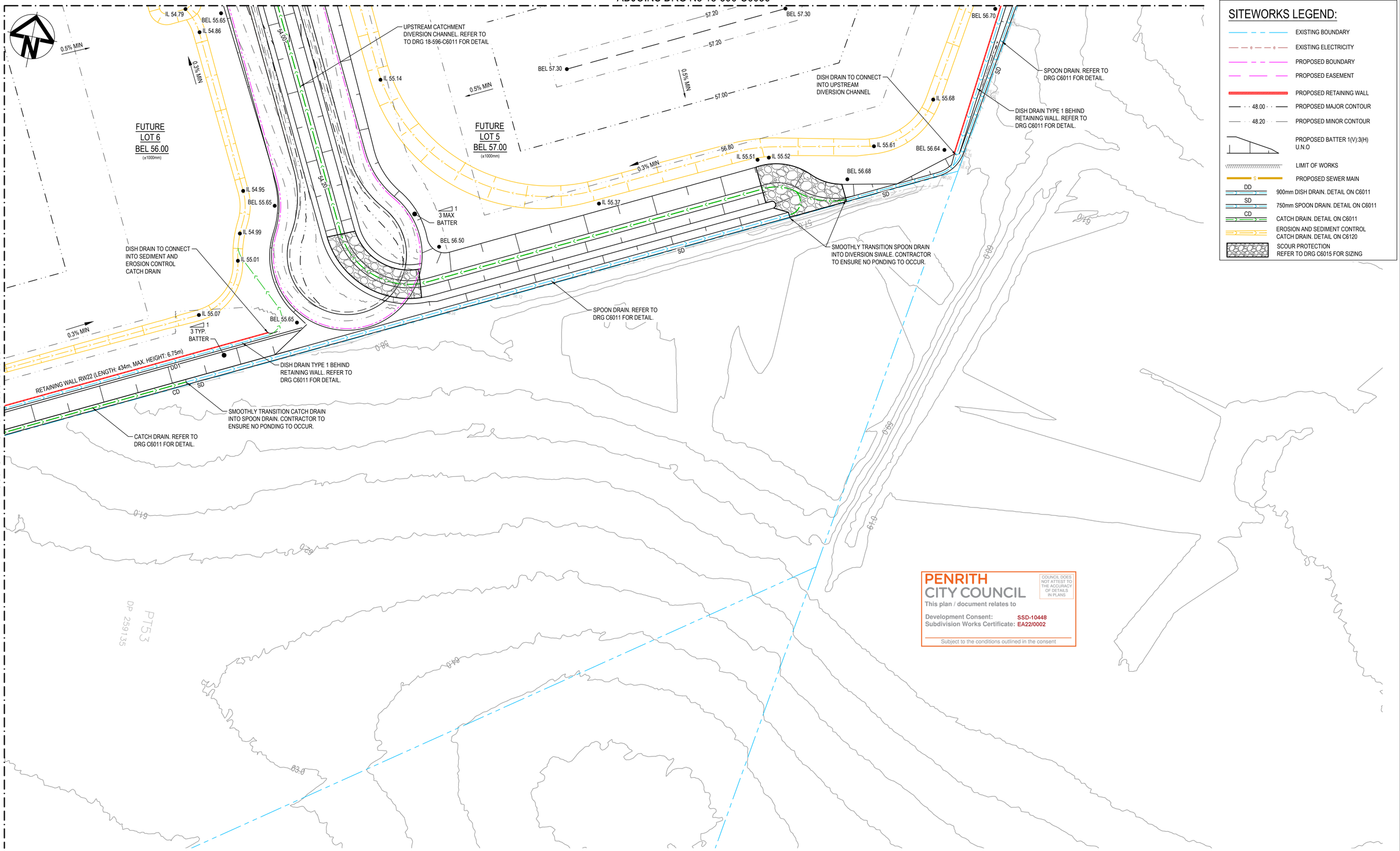
Issue: 2

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6038.dwg

ADJOINS DRG No 18-596-C6036

ADJOINS DRG No 18-596-C6038



SITEWORKS LEGEND:

- EXISTING BOUNDARY
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED RETAINING WALL
- 48.00 PROPOSED MAJOR CONTOUR
- 48.20 PROPOSED MINOR CONTOUR
- PROPOSED BATTER 1(V):3(H) U.N.O
- LIMIT OF WORKS
- S PROPOSED SEWER MAIN
- DD 900mm DISH DRAIN. DETAIL ON C6011
- SD 750mm SPOON DRAIN. DETAIL ON C6011
- CD CATCH DRAIN. DETAIL ON C6011
- EROSION AND SEDIMENT CONTROL CATCH DRAIN. DETAIL ON C6120
- SCOUR PROTECTION REFER TO DRG C6015 FOR SIZING

Issue	Description	Date
2	ISSUE FOR CONSTRUCTION	25-07-22
1	ISSUE FOR CONSTRUCTION	01-07-22

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales 1:500

Grid MGA2020

Height Datum AHD

Drawn KLR

Designed KLR

Checked DS

Approved AT

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
BULK EARTHWORKS
PLAN
SHEET 10

Civil Engineers and Project Managers
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www.atl.net.au
info@atl.net.au

Status FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C6039

Issue 2

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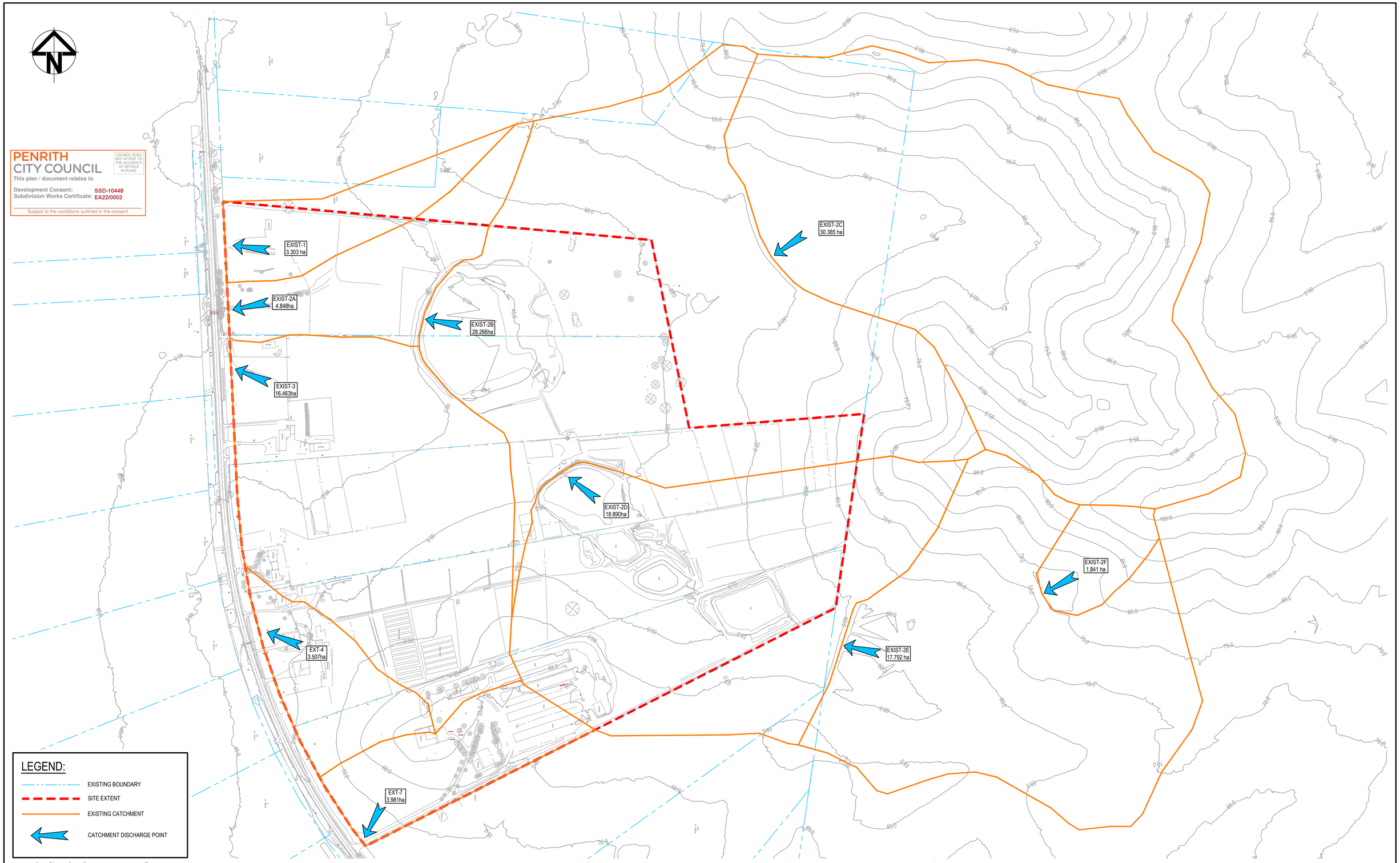

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

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Client

mirvac

Scales	1:2500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)

Civil Engineers and Project Managers

at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6045

Issue: 1

100mm on Original

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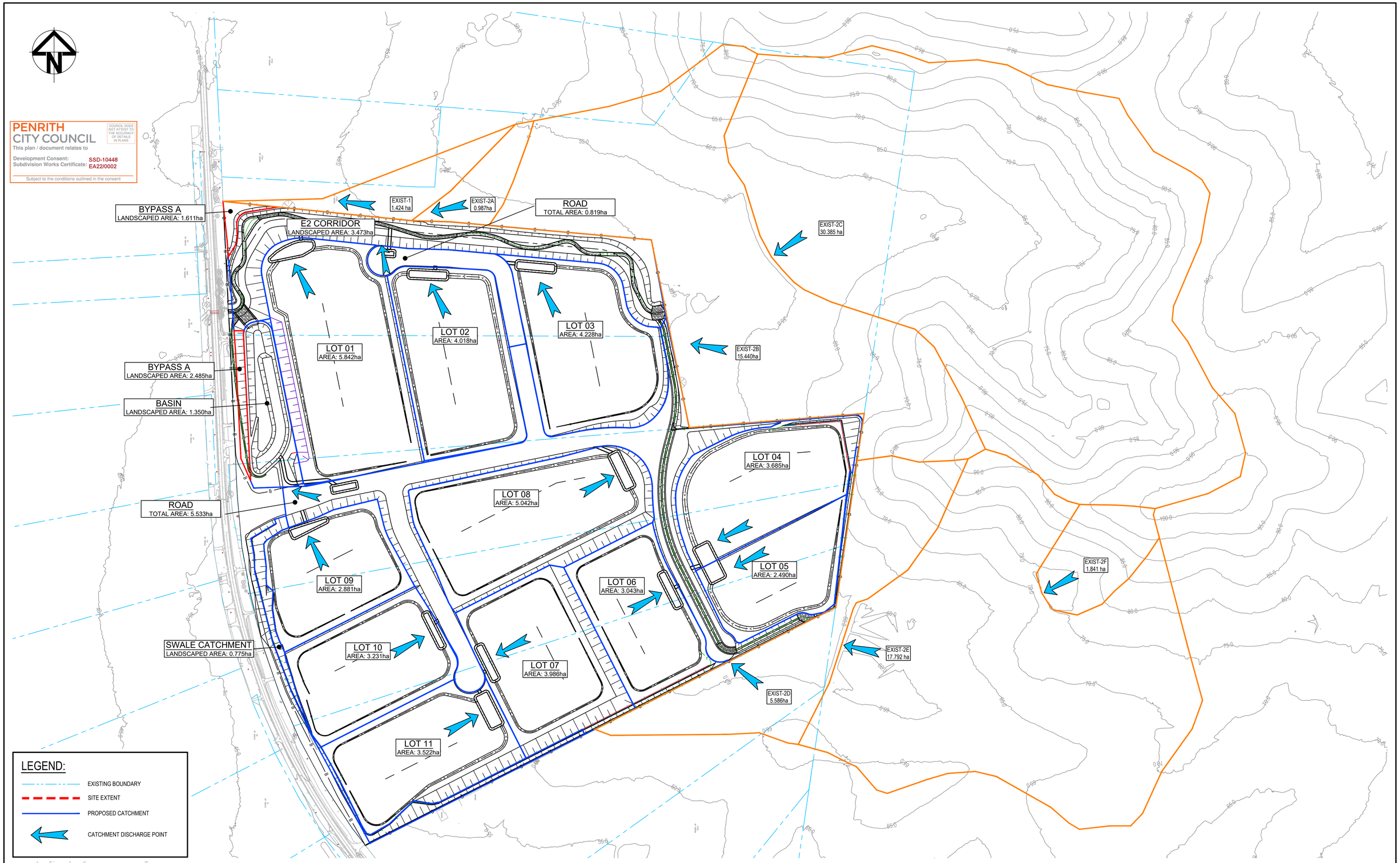

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

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Client: mirvac

Scales	1:2500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

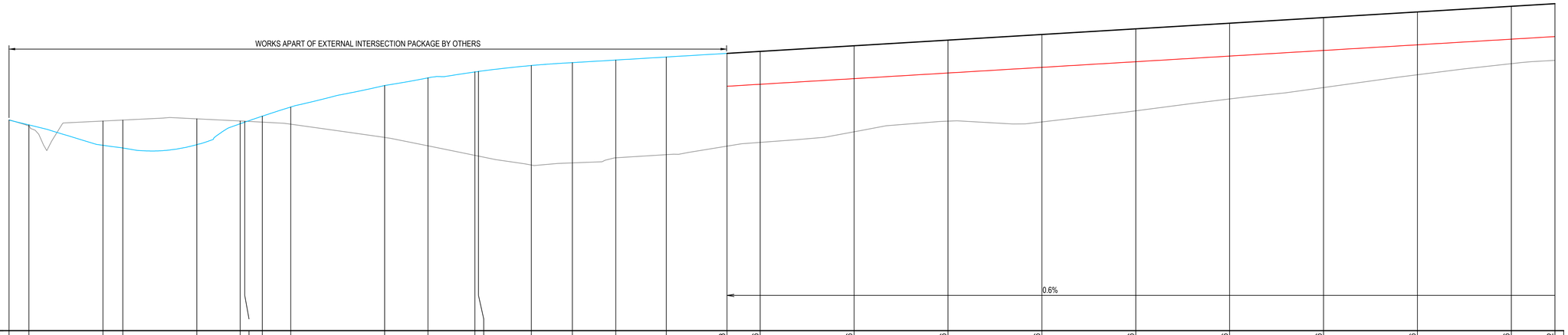
A1

Project - Drawing No.: 18-596-C6046

Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6046.dwg



HORIZONTAL

VC LENGTH

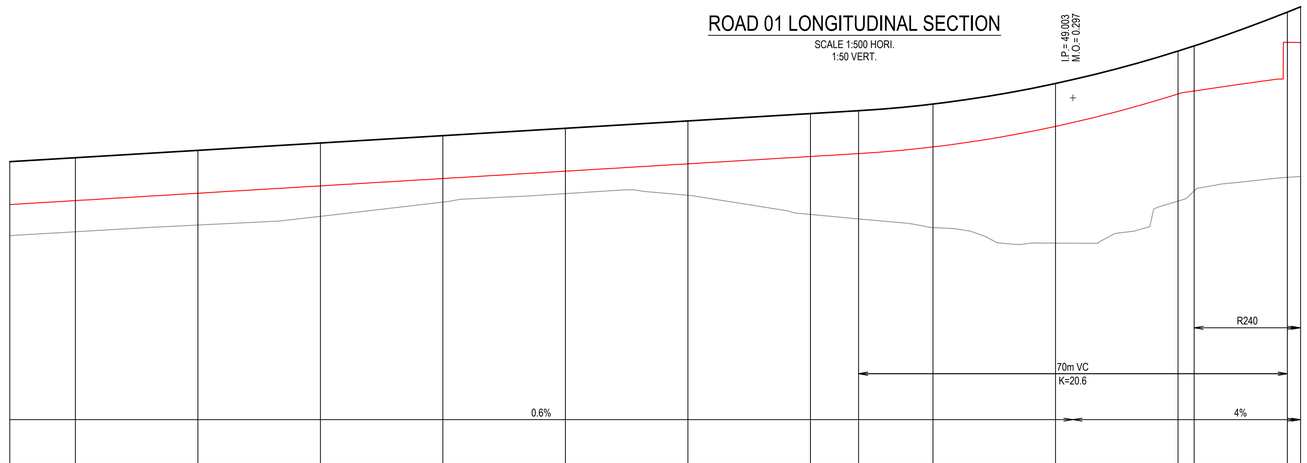
GRADE

Datum RL41

PROPOSED SURFACE LEVEL																	46.903	46.946	47.066	47.186	47.306	47.426	47.546	47.666	47.786	47.906	47.962
EXTERNAL INTERSECTION SURFACE LEVEL	45.482	45.381	44.946	44.889	44.960	45.405	45.439	45.567	45.761	46.220	46.385	46.512	46.520	46.645	46.707	46.761	46.826	46.903									
BULK EARTHWORKS LEVEL																			46.246	46.366	46.486	46.606	46.726	46.846	46.966	47.086	47.206	47.262
EXISTING SURFACE LEVEL	45.484	45.354	45.463	45.484	45.510	45.464	45.428	45.440	45.396	45.114	44.936	44.733	44.716	44.527	44.572	44.680	44.746	44.928	45.008	45.234	45.460	45.444	45.680	45.933	46.177	46.449	46.684	46.756
CHAINAGE	0.010	4.238	20.000	24.238	40.000	49.238	50.218	53.944	60.000	80.000	89.238	99.238	100.000	111.247	120.000	129.238	140.000	152.930	160.000	180.000	200.000	220.000	240.000	260.000	280.000	300.000	320.000	329.283

ROAD 01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.



HORIZONTAL

VC LENGTH

GRADE

Datum RL43

PROPOSED SURFACE LEVEL	47.962	48.026	48.146	48.266	48.386	48.506	48.626	48.746	48.793	48.902	49.237	49.766	49.850	50.403	50.489
BULK EARTHWORKS LEVEL	47.262	47.326	47.446	47.566	47.686	47.806	47.926	48.046	48.093	48.202	48.537	49.066	49.115	49.909	49.965
EXISTING SURFACE LEVEL	46.756	46.817	46.926	47.068	47.302	47.440	47.412	47.100	47.028	46.886	46.632	47.317	47.483	47.705	47.720
CHAINAGE	329.283	340.000	360.000	380.000	400.000	420.000	440.000	460.000	467.850	480.000	500.000	520.000	522.630	537.850	540.000

ROAD 01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales: 1:500 (H) 1:50 (V)
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn: KLR
Designed: KLR
Checked: DS
Approved: AT

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: ROAD 01
LONGITUDINAL SECTION
SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6070
Issue: 1

100mm on Original

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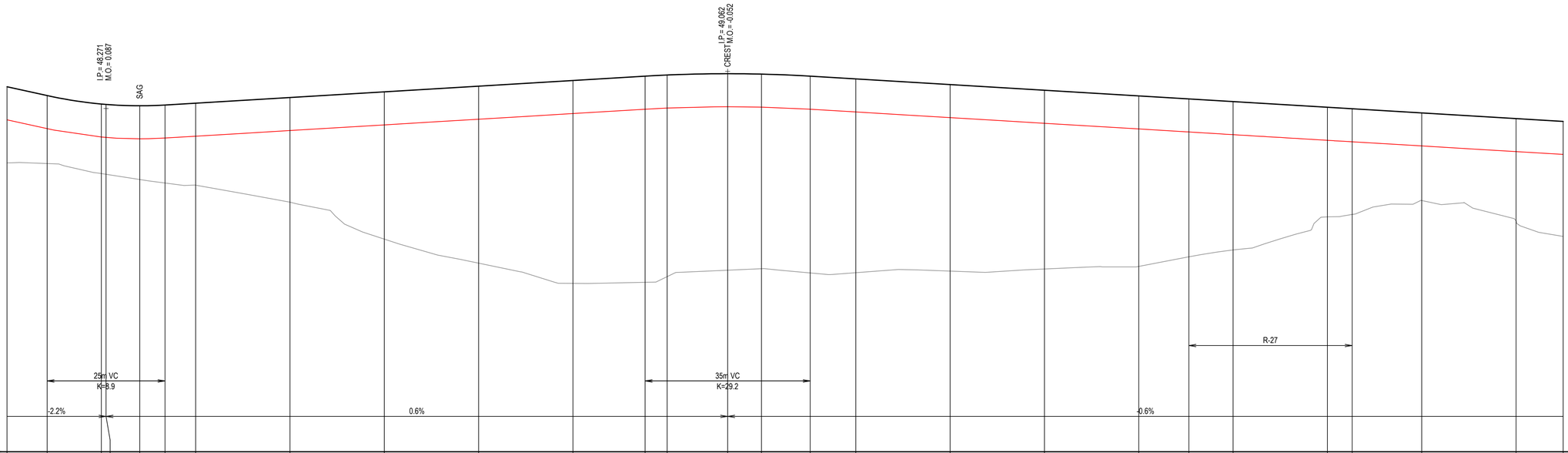

PROPOSED SURFACE LEVEL	48.733	48.546	48.367	48.358	48.330	48.346	48.385	48.505	48.625	48.745	48.865	48.957	48.981	49.009	49.000	48.957	48.899	48.779	48.659	48.539	48.475	48.419	48.299	48.267	48.179	48.059	47.999
BULK EARTHWORKS LEVEL	48.033	47.846	47.667	47.660	47.630	47.646	47.685	47.805	47.925	48.045	48.165	48.257	48.281	48.309	48.300	48.257	48.199	48.079	47.959	47.839	47.775	47.719	47.599	47.567	47.479	47.359	47.299
EXISTING SURFACE LEVEL	47.119	47.105	46.894	46.876	46.767	46.693	46.648	46.287	45.505	44.996	44.567	44.589	44.710	44.846	44.878	44.788	44.794	44.827	44.872	44.926	45.130	45.276	45.977	46.027	46.322	45.891	45.562
CHAINAGE	0.000	8.500	20.000	21.000	28.143	33.500	40.000	60.000	80.000	100.000	120.000	135.312	140.000	152.812	160.000	170.312	180.000	200.000	220.000	240.000	250.624	260.000	280.000	285.248	300.000	320.000	330.000
	TP																				TP			TP			

ROAD 02 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales	1:500 (H) 1:50 (V)	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: ROAD 02 LONGITUDINAL SECTION SHEET 1

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ABN 96 130 882 405
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C6071
Issue: 1

100mm on Original

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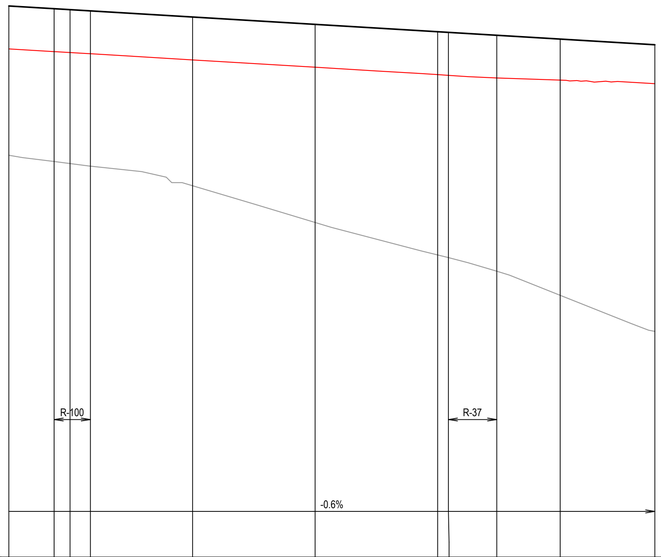

HORIZONTAL																
VC LENGTH																
GRADE									-0.6%							
Datum RL39																
PROPOSED SURFACE LEVEL	47.999	47.954	47.939	47.919	47.819	47.699	47.579	47.568	47.521	47.459	47.366
BULK EARTHWORKS LEVEL	47.299	47.254	47.239	47.219	47.119	46.999	46.879	46.866	46.823	46.788	46.731
EXISTING SURFACE LEVEL	45.562	45.460	45.427	45.383	45.065	44.465	43.935	43.892	43.671	43.277	42.687
CHAINAGE	330.000	337.399	340.000	343.323	360.000	380.000	400.000	401.751	409.654	420.000	435.460
		TP		TP				TP	TP		

ROAD 02 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
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This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales	1:500 (H) 1:50 (V)	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

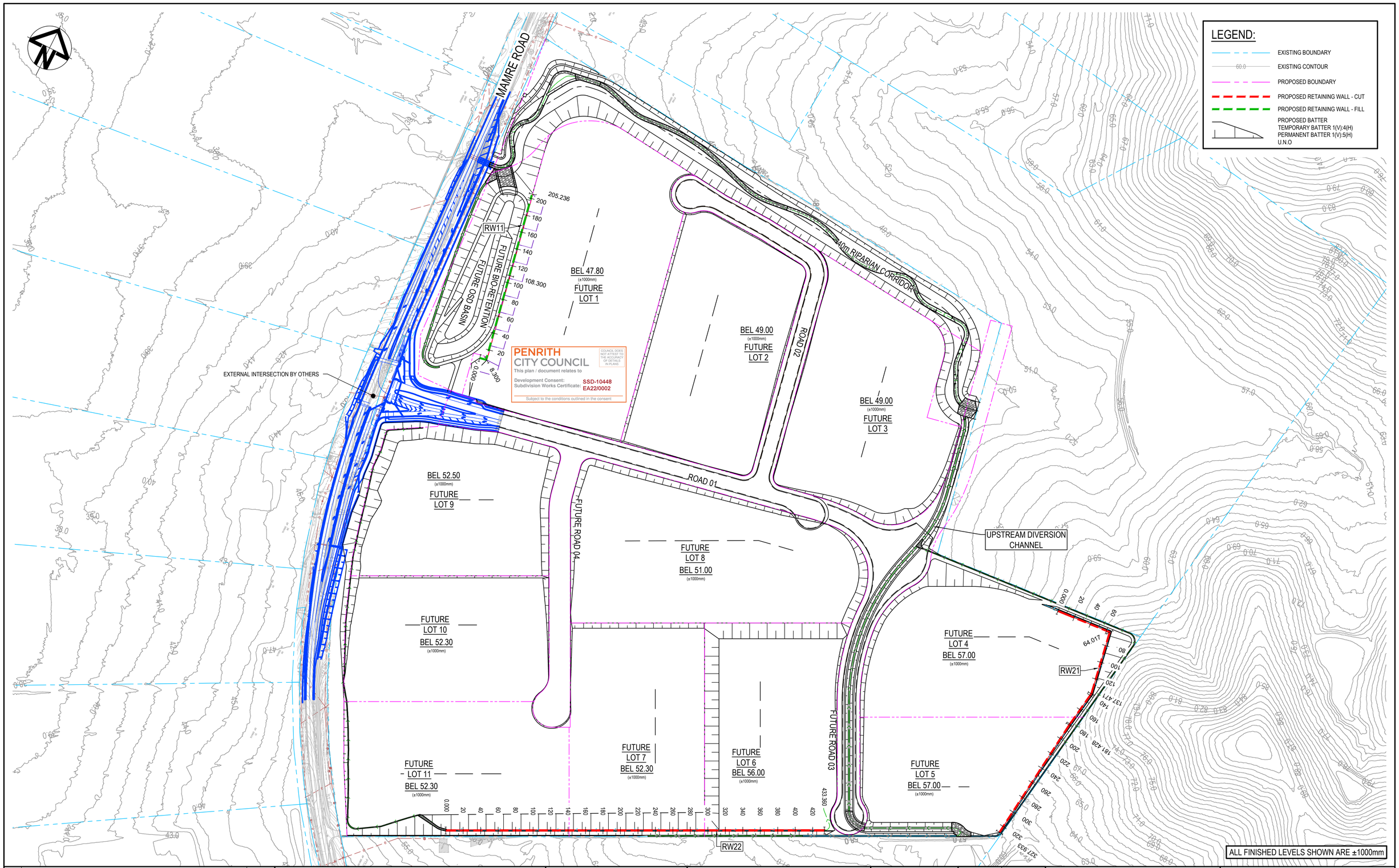
Title: ROAD 02 LONGITUDINAL SECTION SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6072
Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6072.dwg



Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 50 100 150 200m

1 : 2000 @ A1

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client

mirvac

Scales	1:2000	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

RETAINING WALL
GENERAL ARRANGEMENT
PLAN

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6080

Issue: 1

100mm on Original

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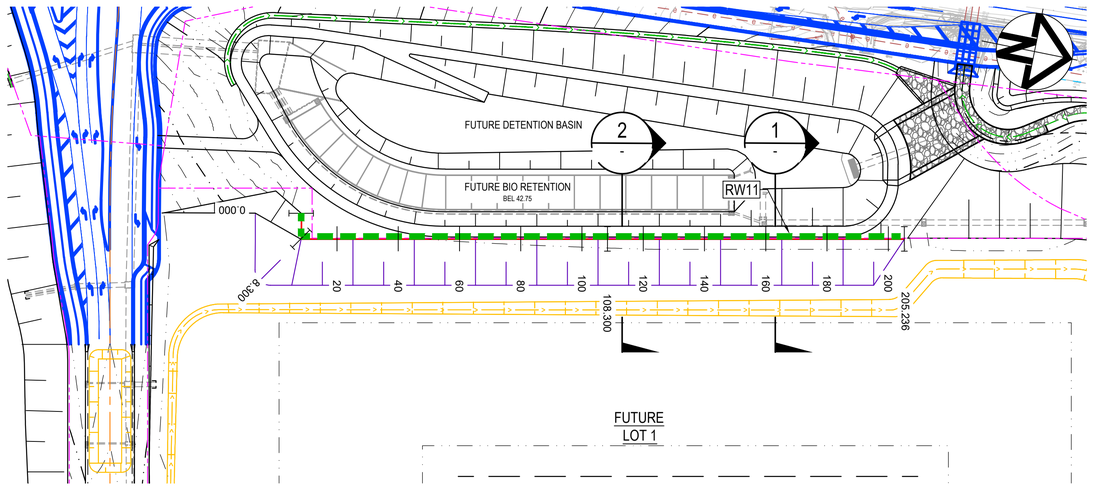
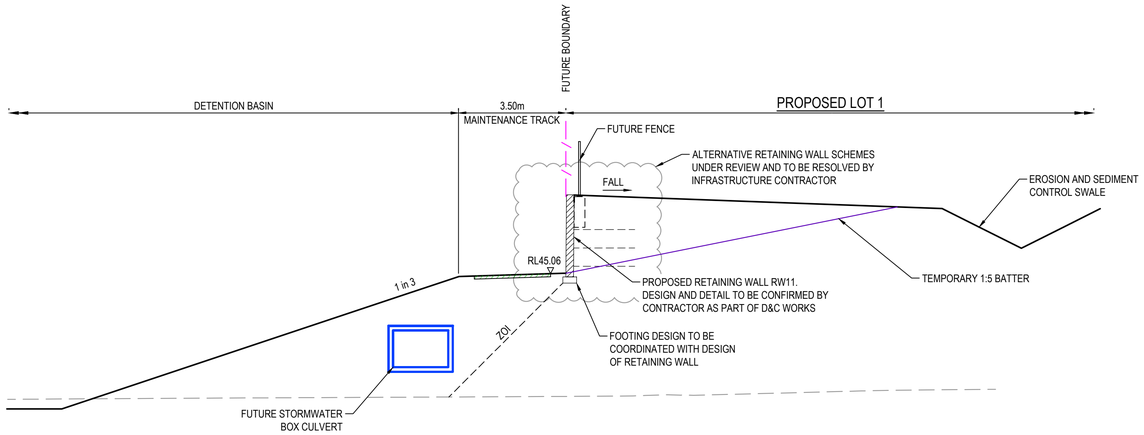
NOTE:
PROPOSED RETAINING WALL RW11. DESIGN AND DETAIL TO BE CONFIRMED BY CONTRACTOR AS PART OF D&C WORKS.



RETAINING WALL RW11 PLAN

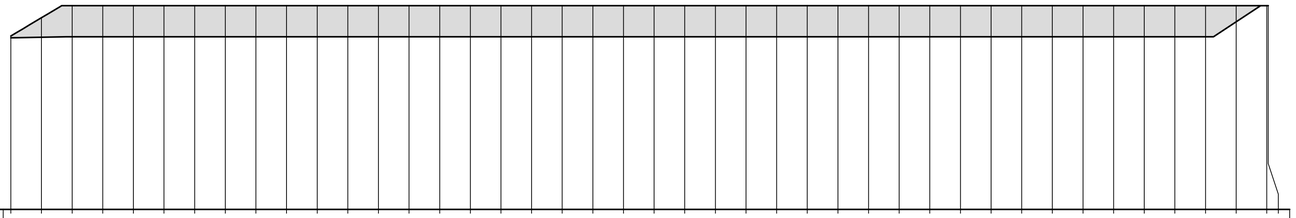
SCALE 1:1000



SECTION 1

SCALE 1:100

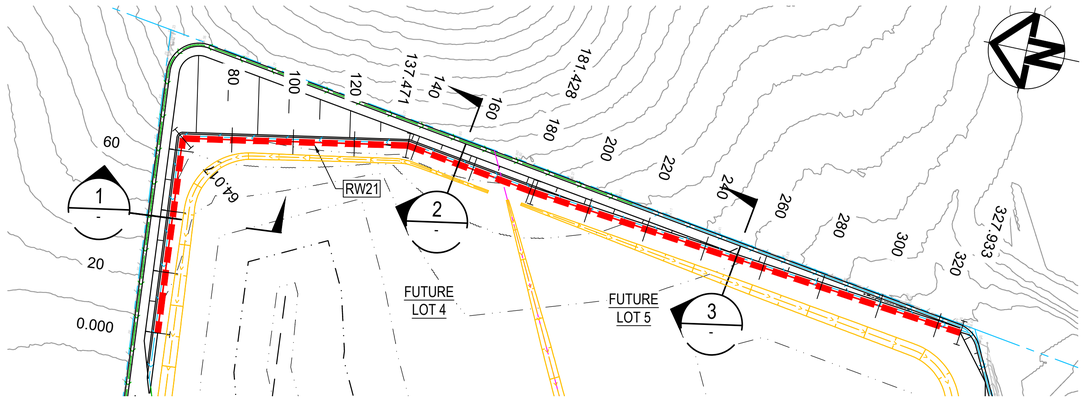
PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS



Datum RL31

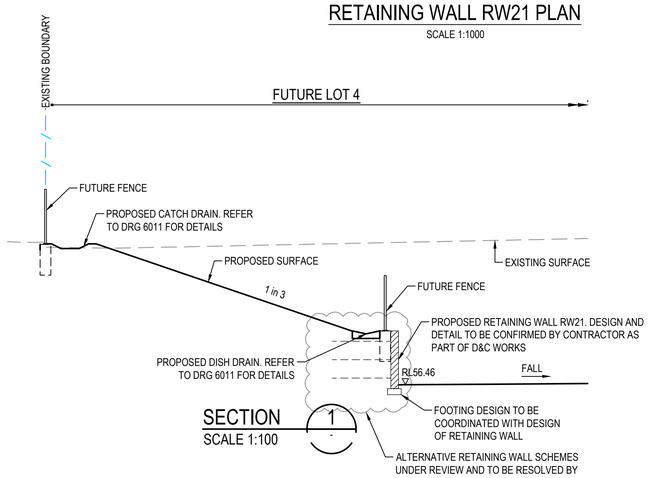
| | | |

NOTE:
PROPOSED RETAINING WALL RW22. DESIGN AND DETAIL TO BE CONFIRMED BY CONTRACTOR AS PART OF D&C WORKS.

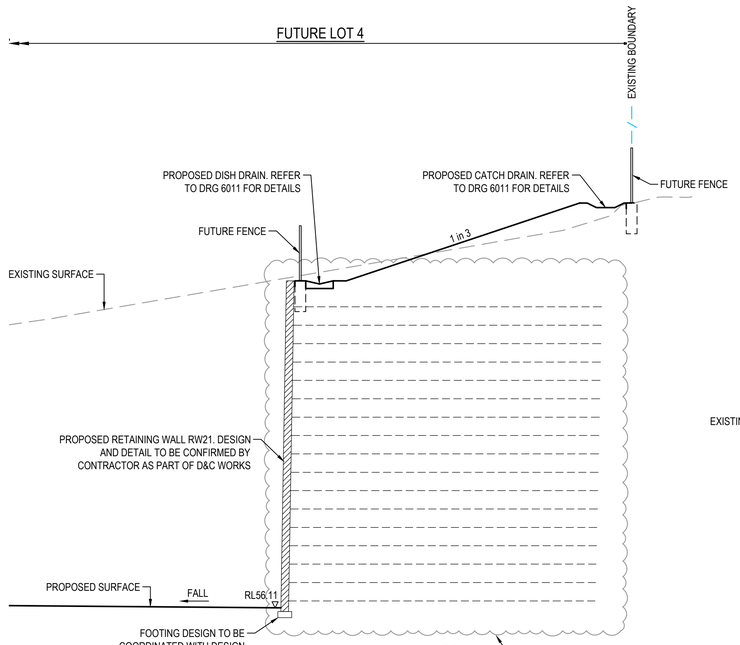


RETAINING WALL RW21 PLAN

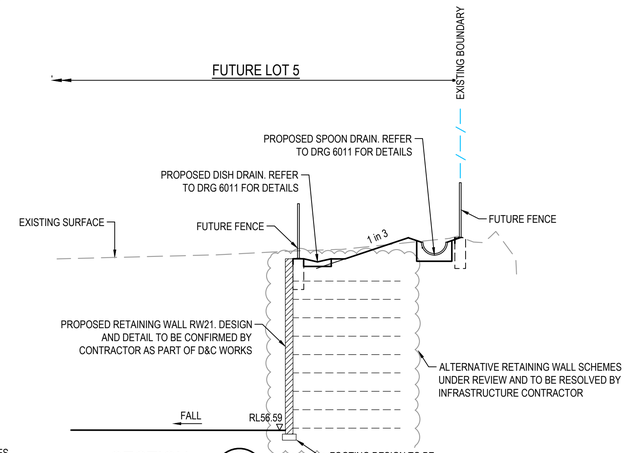
SCALE 1:1000



SECTION 1
SCALE 1:100



SECTION 2
SCALE 1:100



SECTION 3
SCALE 1:100

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
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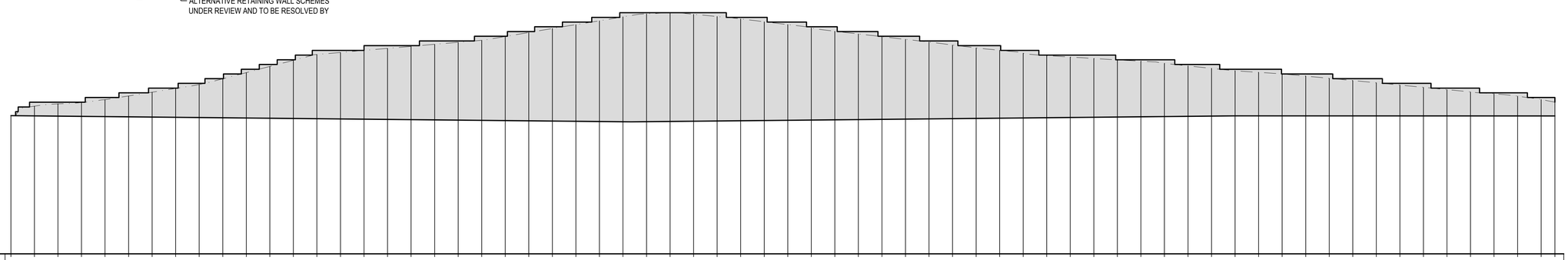
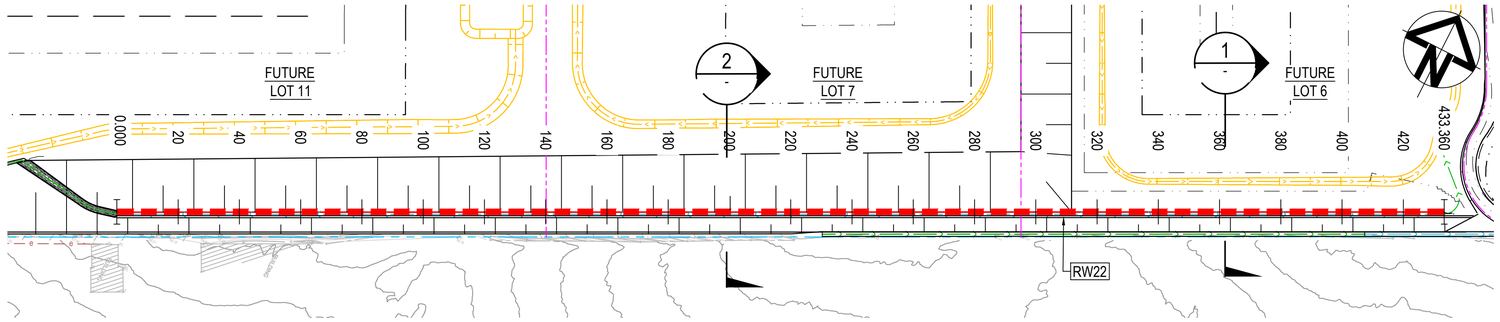


Datum RL42

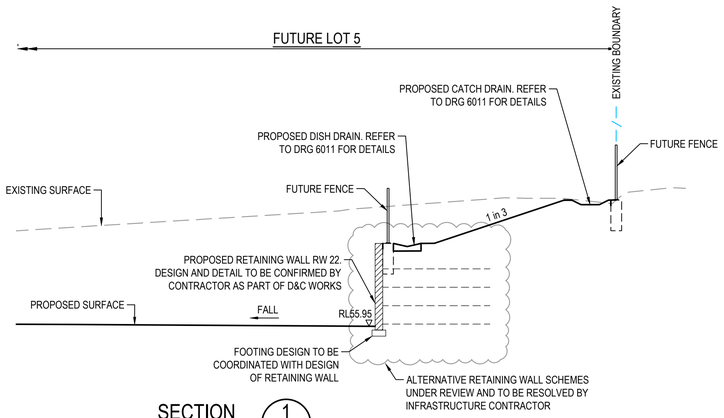
| | | |

NOTE:
PROPOSED RETAINING WALL RW22. DESIGN AND DETAIL TO BE CONFIRMED BY CONTRACTOR AS PART OF D&C WORKS.



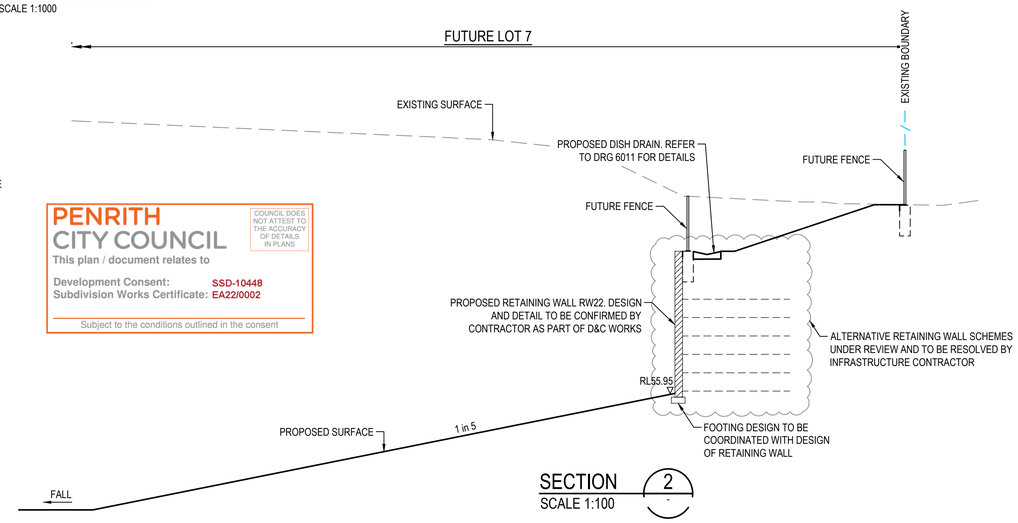
RETAINING WALL RW22 PLAN

SCALE 1:1000



SECTION 1

SCALE 1:100



SECTION 2

SCALE 1:100

PENRITH CITY COUNCIL
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Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
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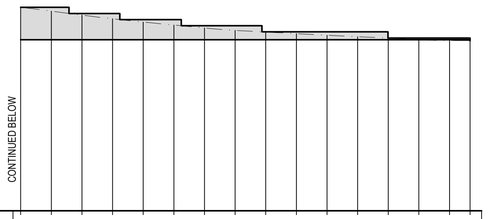
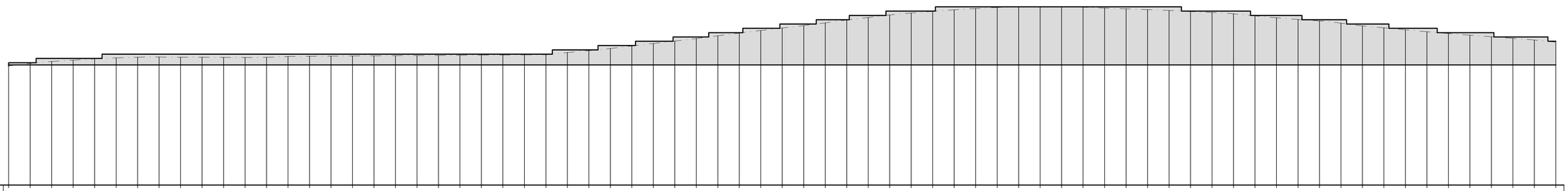


Datum RL42

BOTTOM OF RETAINING WALL	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956	55.956
TOP OF RETAINING WALL	58.6	58.29	57.967	57.667	57.401	57.158	56.92	56.723	56.585	56.455	56.322	56.204	56.099	55.977	55.892																
HEIGHT OF RETAINING WALL	2.644	2.334	2.011	1.711	1.445	1.202	0.964	0.767	0.629	0.499	0.366	0.248	0.143	0.021	-0.064																
CHAINAGE	360.000	365.000	370.000	375.000	380.000	385.000	390.000	395.000	400.000	405.000	410.000	415.000	420.000	425.000	430.000	433.360															

RETAINING WALL RW22 PROFILE

SCALE 1:500 HORI.
1:250 VERT.



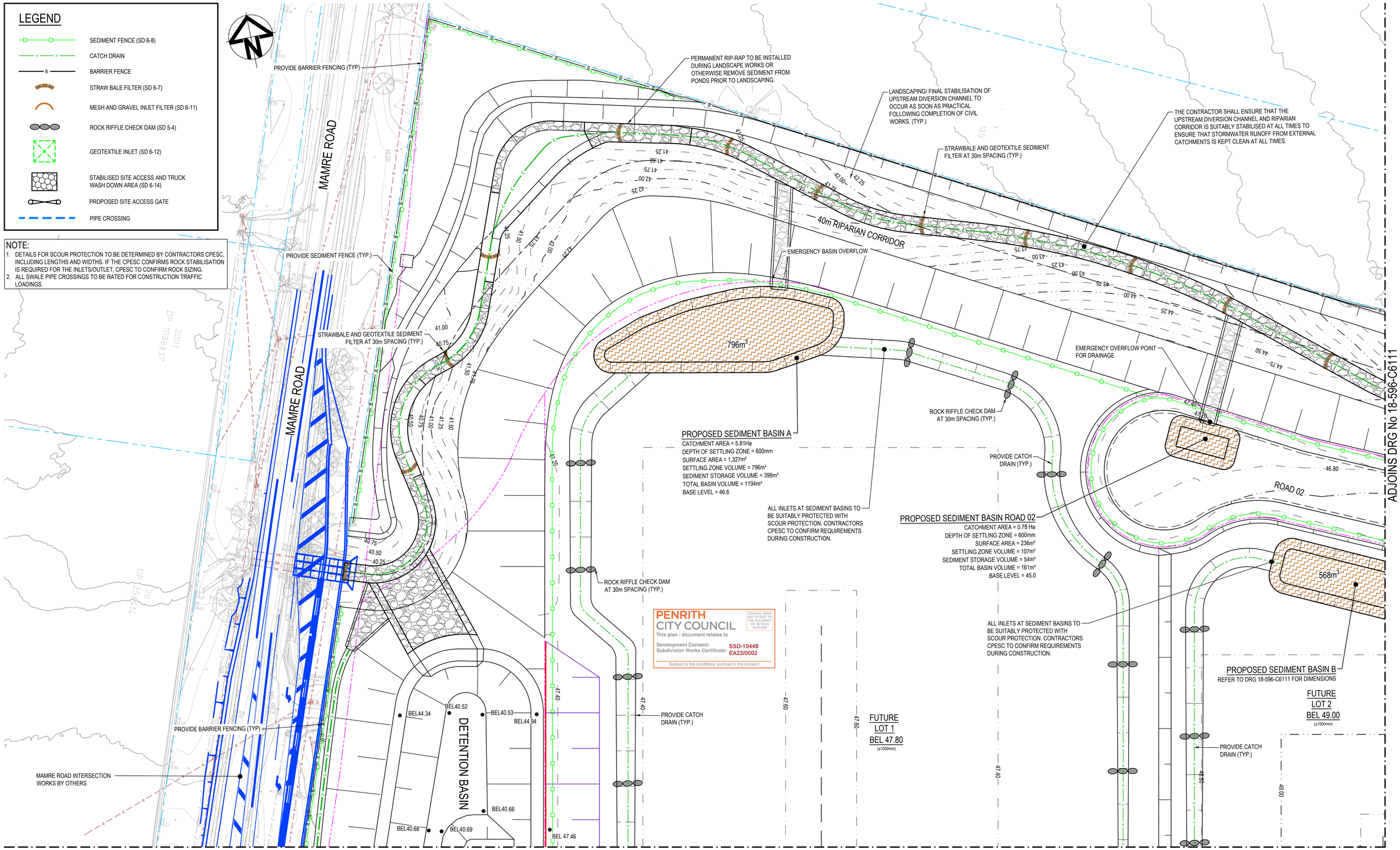
Datum RL42

| | | | | | | | | | | | | | | | | | | |

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
1. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.



Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 | SHEET 2 | SHEET 3 | SHEET 4 | SHEET 5 | SHEET 6 | SHEET 7 | SHEET 8 | SHEET 9 | SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
EROSION AND SEDIMENT CONTROL PLAN
SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C6110

Issue 1

100mm on Original

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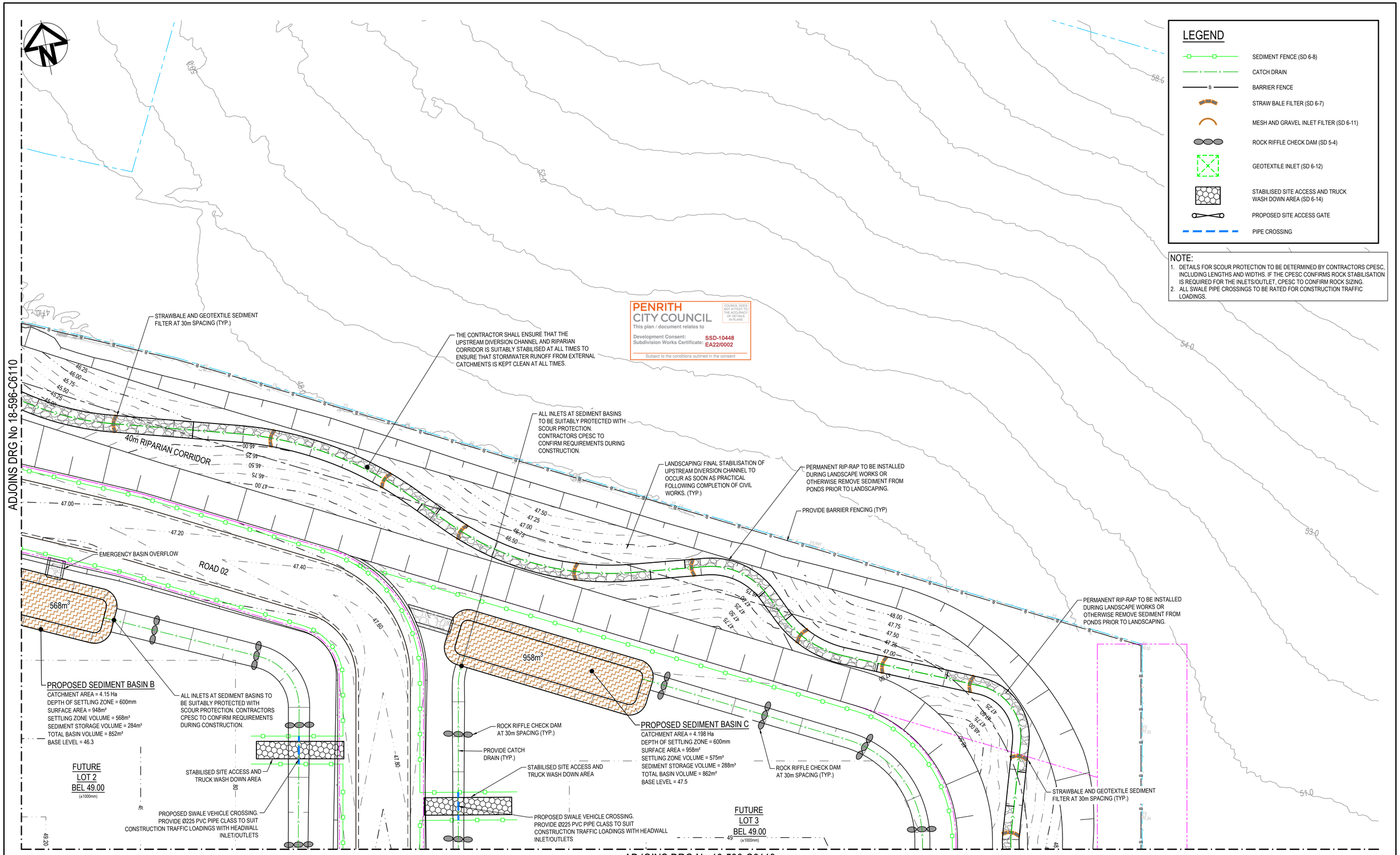

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

EROSION AND SEDIMENT CONTROL PLAN
SHEET 2

Civil Engineers and Project Managers

at&l

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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C6111

Issue 1

100mm on Original

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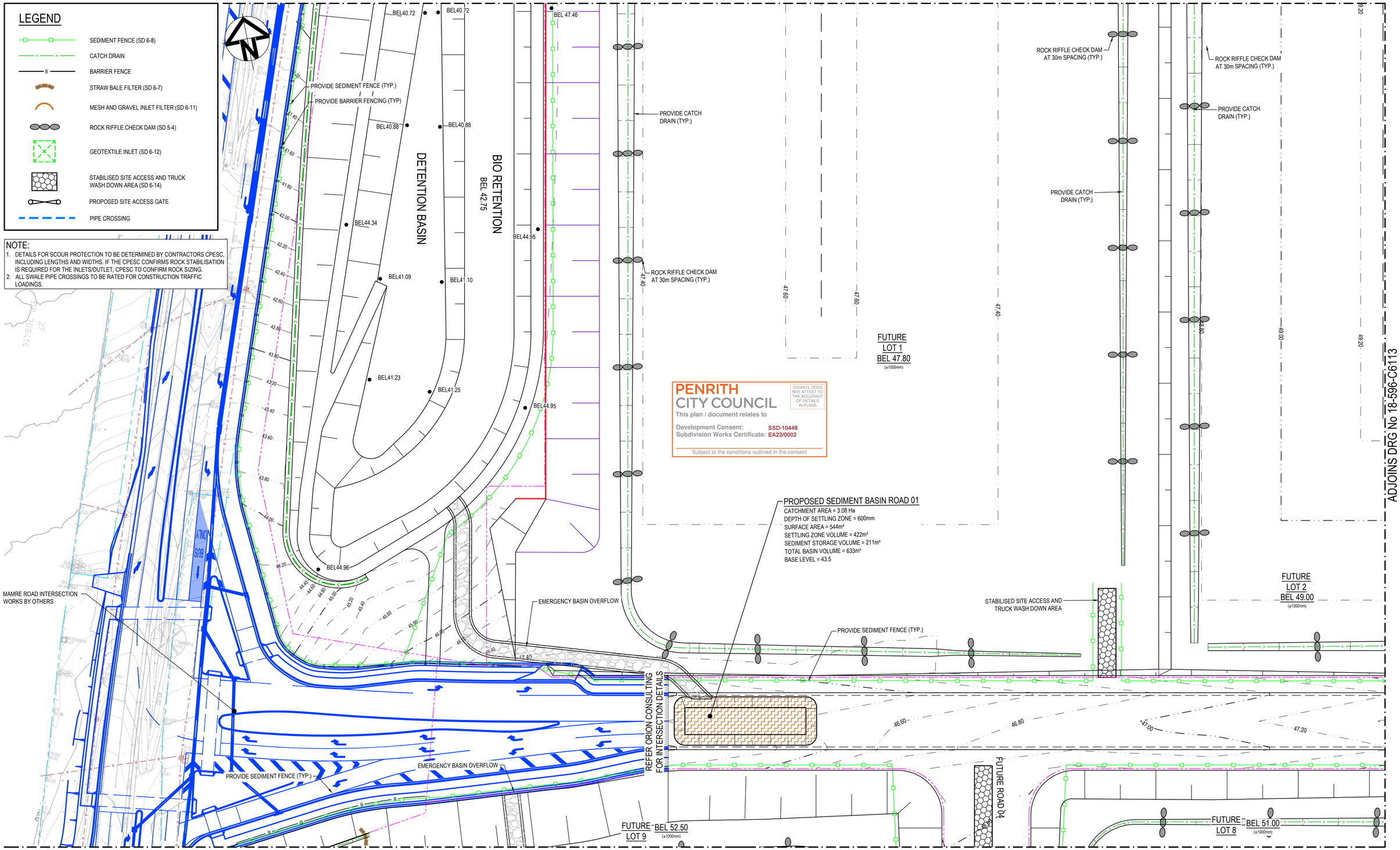
ADJOINS DRG No 18-596-C6110

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
1. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.



ADJOINS DRG No 18-596-C6114

ADJOINS DRG No 18-596-C6115

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales: 1:500
Grid: MGA2020
Height Datum: AHD

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT

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GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 3

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C6112 — Issue: 1

100mm on Original

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ADJOINS DRG No 18-596-C6111

ADJOINS DRG No 18-596-C6112

ADJOINS DRG No 18-596-C6115

ADJOINS DRG No 18-596-C6116

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
1. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

PROVIDE CATCH DRAIN (TYP.)

FUTURE LOT 2 BEL 49.00 (±1000mm)

PROPOSED SWALE VEHICLE CROSSING. PROVIDE Ø225 PVC PIPE CLASS TO SUIT CONSTRUCTION TRAFFIC LOADINGS WITH HEADWALL INLET/OUTLETS

STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

ROAD 02

FUTURE LOT 3 BEL 49.00 (±1000mm)

40m RIPARIAN CORRIDOR

PROVIDE BARRIER FENCING (TYP)

STRAWBALE AND GEOTEXTILE SEDIMENT FILTER AT 30m SPACING (TYP.)

LANDSCAPING/ FINAL STABILISATION OF UPSTREAM DIVERSION CHANNEL TO OCCUR AS SOON AS PRACTICAL FOLLOWING COMPLETION OF CIVIL WORKS. (TYP.)

THE CONTRACTOR SHALL ENSURE THAT THE UPSTREAM DIVERSION CHANNEL AND RIPARIAN CORRIDOR IS SUITABLY STABILISED AT ALL TIMES TO ENSURE THAT STORMWATER RUNOFF FROM EXTERNAL CATCHMENTS IS KEPT CLEAN AT ALL TIMES.

FUTURE ROAD 03

PROPOSED SWALE VEHICLE CROSSING. PROVIDE 2No. Ø1050 RCP PIPE CLASS TO SUIT CONSTRUCTION TRAFFIC LOADINGS WITH HEADWALL INLET/OUTLETS

PROVIDE SEDIMENT FENCE (TYP.)

ROAD 01

EMERGENCY BASIN OVERFLOW

676m³

FUTURE LOT 8 BEL 51.00 (±1000mm)

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales: 1:500

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT
Grid	MGA2020
Height Datum	AHD

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GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 4

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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info@atl.net.au

Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C6113 — Issue: 1

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ADJOINS DRG No 18-596-C6112

482m³

PROPOSED SEDIMENT BASIN J
CATCHMENT AREA = 3.521Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 803m²
SETTLING ZONE VOLUME = 482m³
SEDIMENT STORAGE VOLUME = 241m³
TOTAL BASIN VOLUME = 723m³
BASE LEVEL = 47.4

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

PROVIDE CATCH DRAIN (TYP.)

ALL INLETS AT SEDIMENT BASINS TO BE SUITABLY PROTECTED WITH SCOUR PROTECTION. CONTRACTORS CPESC TO CONFIRM REQUIREMENTS DURING CONSTRUCTION.

FUTURE LOT 9 BEL 52.50 (±1000mm)

MAMRE ROAD INTERSECTION WORKS BY OTHERS

PROVIDE SEDIMENT FENCE (TYP.)

PROVIDE BARRIER FENCING (TYP)

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

PROVIDE CATCH DRAIN (TYP.)

FUTURE LOT 10 BEL 52.30 (±1000mm)

52.20 52.40 52.00 51.80 44.0 46.0 43.0

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
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ADJOINS DRG No 18-596-C6115

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
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2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

ADJOINS DRG No 18-596-C6117

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales: 1:500
Grid: MGA2020
Height Datum: AHD

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT

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GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 5

Civil Engineers and Project Managers
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info@atl.net.au

Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C6114 — Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6114.dwg

ADJOINS DRG No 18-596-C6112

ADJOINS DRG No 18-596-C6113

ADJOINS DRG No 18-596-C6114

ADJOINS DRG No 18-596-C6116

ADJOINS DRG No 18-596-C6118

PROVIDE CATCH DRAIN (TYP.)

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

FUTURE ROAD 04

PROPOSED SWALE VEHICLE CROSSING. PROVIDE Ø225 PVC PIPE CLASS TO SUIT CONSTRUCTION TRAFFIC LOADINGS WITH HEADWALL INLET/OUTLETS

FUTURE LOT 8 BEL 51.00 (±1000mm)

PROPOSED SEDIMENT BASIN F
CATCHMENT AREA = 4.937 Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 1127m²
SETTLING ZONE VOLUME = 676m³
SEDIMENT STORAGE VOLUME = 338m³
TOTAL BASIN VOLUME = 1014m³
BASE LEVEL = 48.4

FUTURE LOT 9 BEL 52.50 (±1000mm)

FUTURE LOT 10 BEL 52.30 (±1000mm)

PROPOSED SEDIMENT BASIN I
CATCHMENT AREA = 3.334 Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 761m²
SETTLING ZONE VOLUME = 456m³
SEDIMENT STORAGE VOLUME = 228m³
TOTAL BASIN VOLUME = 685m³
BASE LEVEL = 52.7

456m³

EMERGENCY BASIN OVERFLOW

PROPOSED SEDIMENT BASIN G
REFER TO DRG 18-596-C6118 FOR DIMENSIONS

FUTURE LOT 7 BEL 52.30 (±1000mm)

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
Subject to the conditions outlined in the consent

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
1. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 6

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

Project - Drawing No.: 18-596-C6115

Issue: 1

100mm on Original

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ADJOINS DRG No 18-596-C6113

ADJOINS DRG No 18-596-C6115

ADJOINS DRG No 18-596-C6119

PROPOSED SEDIMENT BASIN F
REFER TO DRG 18-596-C6115 FOR DIMENSIONS

676m³

FUTURE
LOT 8
BEL 51.00
(±1000mm)

ROAD 03

FUTURE ROAD 03

PROVIDE SEDIMENT FENCE (TYP.)

PROVIDE CATCH DRAIN (TYP.)

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

PROVIDE SEDIMENT FENCE (TYP.)

LANDSCAPING/ FINAL STABILISATION OF UPSTREAM DIVERSION CHANNEL TO OCCUR AS SOON AS PRACTICAL FOLLOWING COMPLETION OF CIVIL WORKS. (TYP.)

STRAWBALE AND GEOTEXTILE SEDIMENT FILTER AT 30m SPACING (TYP.)

THE CONTRACTOR SHALL ENSURE THAT THE UPSTREAM DIVERSION CHANNEL AND RIPARIAN CORRIDOR IS SUITABLY STABILISED AT ALL TIMES TO ENSURE THAT STORMWATER RUNOFF FROM EXTERNAL CATCHMENTS IS KEPT CLEAN AT ALL TIMES.

FUTURE
LOT 4
BEL 57.00
(±1000mm)

PENRITH CITY COUNCIL
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Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
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PROPOSED SEDIMENT BASIN D
CATCHMENT AREA = 6.95 Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 1196m²
SETTLING ZONE VOLUME = 953m³
SEDIMENT STORAGE VOLUME = 477m³
TOTAL BASIN VOLUME = 1430m³
BASE LEVEL = 55.0

956m³

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

PROVIDE CATCH DRAIN (TYP.)

EMERGENCY BASIN OVERFLOW

FUTURE
LOT 6
BEL 56.00
(±1000mm)

514m³

PROPOSED SEDIMENT BASIN E
CATCHMENT AREA = 3.756 Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 857m²
SETTLING ZONE VOLUME = 514m³
SEDIMENT STORAGE VOLUME = 257m³
TOTAL BASIN VOLUME = 772m³
BASE LEVEL = 54.6

EMERGENCY BASIN OVERFLOW

FUTURE ROAD 03

BEL 57.00
(±1000mm)
FUTURE
LOT 5

PROVIDE BARRIER FENCING (TYP)

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
1. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

Key Plan
SHEET 1 SHEET 2
SHEET 3 SHEET 4
SHEET 5 SHEET 6 SHEET 7
SHEET 8 SHEET 9 SHEET 10

Client
mirvac

Scales 1:500
Grid MGA2020
Height Datum AHD

Drawn	KLR
Designed	KLR
Checked	DS
Approved	AT

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
EROSION AND SEDIMENT CONTROL PLAN
SHEET 7

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No. 18-596-C6116
Issue 1

100mm on Original

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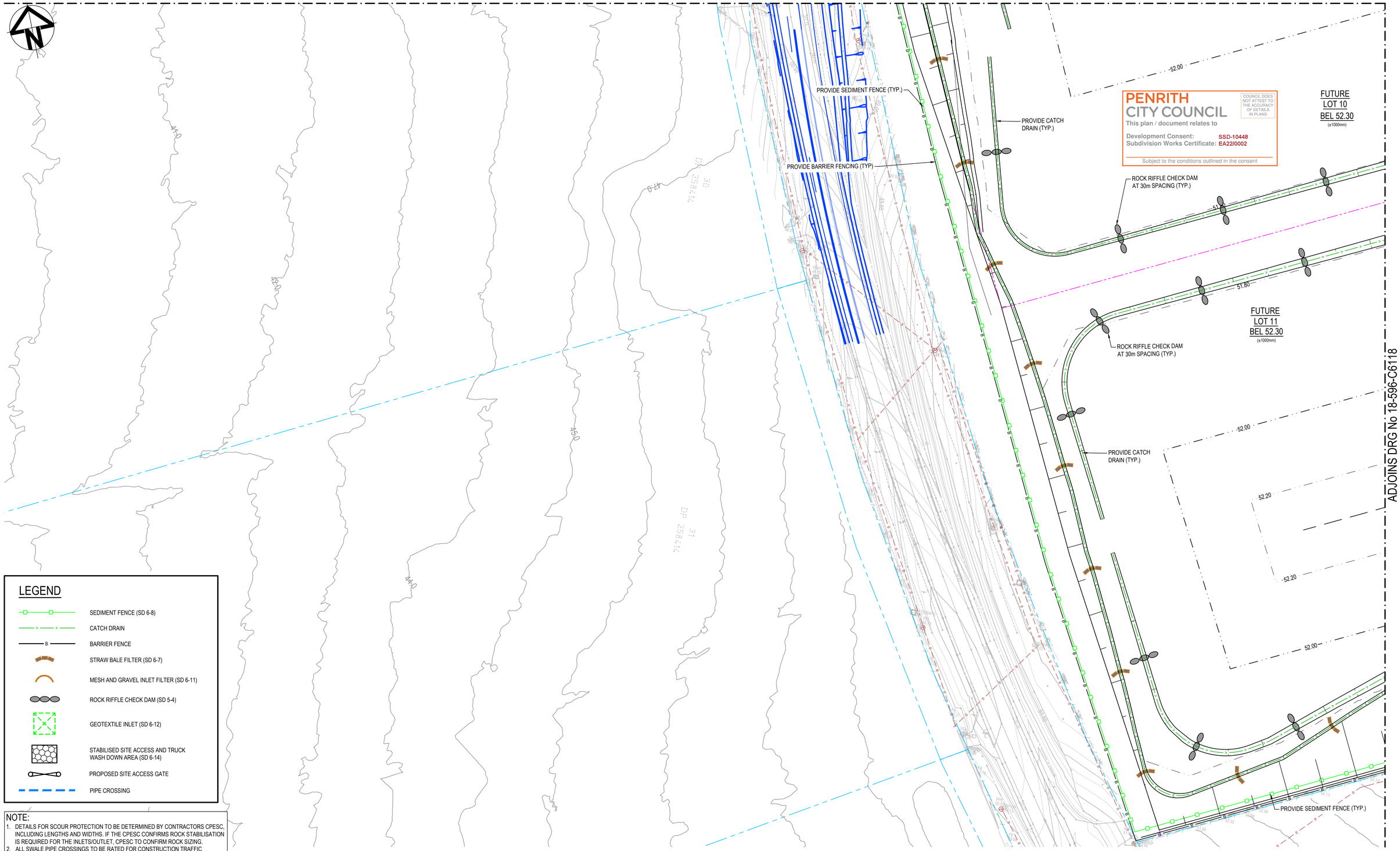
ADJOINS DRG No 18-596-C6114



NOTE:
1. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

ADJOINS DRG No 18-596-C6118

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
EROSION AND SEDIMENT CONTROL PLAN
SHEET 8

Civil Engineers and Project Managers

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North Sydney NSW 2060
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C6117

Issue: 1

100mm on Original

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ADJOINS DRG No 18-596-C6115

ADJOINS DRG No 18-596-C6117

ADJOINS DRG No 18-596-C6119

PROPOSED SWALE VEHICLE CROSSING. PROVIDE Ø225 PVC PIPE CLASS TO SUIT CONSTRUCTION TRAFFIC LOADINGS WITH HEADWALL INLET/OUTLETS

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

PROVIDE CATCH DRAIN (TYP.)

FUTURE LOT 10 BEL 52.30 (±1000mm)

FUTURE ROAD 04

EMERGENCY BASIN OVERFLOW

517m³

PROPOSED SEDIMENT BASIN G
CATCHMENT AREA = 3.777 Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 862m²
SETTLING ZONE VOLUME = 517m³
SEDIMENT STORAGE VOLUME = 259m³
TOTAL BASIN VOLUME = 776m³
BASE LEVEL = 54.4

PROPOSED SEDIMENT BASIN H
CATCHMENT AREA = 3.86 Ha
DEPTH OF SETTLING ZONE = 600mm
SURFACE AREA = 881m²
SETTLING ZONE VOLUME = 528m³
SEDIMENT STORAGE VOLUME = 264m³
TOTAL BASIN VOLUME = 793m³
BASE LEVEL = 54.6

528m³

FUTURE LOT 7 BEL 52.30 (±1000mm)

FUTURE LOT 6 BEL 56.00 (±1000mm)

FUTURE LOT 11 BEL 52.30 (±1000mm)

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

PROVIDE BARRIER FENCING (TYP)

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:
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2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales: 0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

Key Plan: SHEET 1, SHEET 2, SHEET 3, SHEET 4, SHEET 5, SHEET 6, SHEET 7, SHEET 8, SHEET 9, SHEET 10

Client: mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 9

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
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info@atl.net.au

Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C6118 — Issue: 1

100mm on Original

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ADJOINS DRG No 18-596-C6116

ADJOINS DRG No 18-596-C6118

PROVIDE SEDIMENT FENCE (TYP.)

PROVIDE CATCH DRAIN (TYP.)

FUTURE LOT 6 BEL 56.00 (±1000mm)

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

FUTURE ROAD 03

PROVIDE SEDIMENT FENCE (TYP.)

PROVIDE CATCH DRAIN (TYP.)

FUTURE LOT 5 BEL 57.00 (±1000mm)

ROCK RIFFLE CHECK DAM AT 30m SPACING (TYP.)

STRAWBALE AND GEOTEXTILE SEDIMENT FILTER AT 30m SPACING (TYP.)

SMOOTHLY TRANSITION SPOON DRAIN INTO DIVERSION SWALE. CONTRACTOR TO ENSURE NO PONDING TO OCCUR.

PROVIDE BARRIER FENCING (TYP)

THE CONTRACTOR SHALL ENSURE THAT THE UPSTREAM DIVERSION CHANNEL AND RIPARIAN CORRIDOR IS SUITABLY STABILISED AT ALL TIMES TO ENSURE THAT STORMWATER RUNOFF FROM EXTERNAL CATCHMENTS IS KEPT CLEAN AT ALL TIMES.

LANDSCAPING/ FINAL STABILISATION OF UPSTREAM DIVERSION CHANNEL TO OCCUR AS SOON AS PRACTICAL FOLLOWING COMPLETION OF CIVIL WORKS. (TYP.)

PT53 DP 259135

PENRITH CITY COUNCIL

This plan / document relates to

Development Consent: SSD-10448

Subdivision Works Certificate: EA22/0002

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PIPE CROSSING

NOTE:

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2. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10

Client

mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

EROSION AND SEDIMENT CONTROL PLAN
SHEET 10

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C6119

Issue 1

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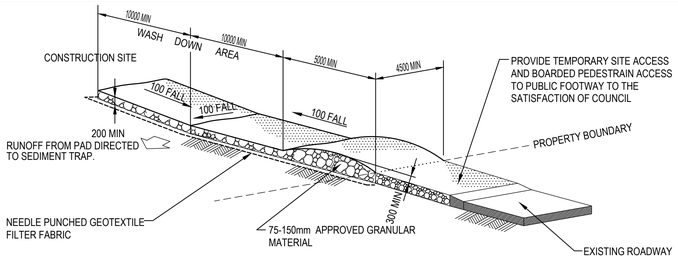
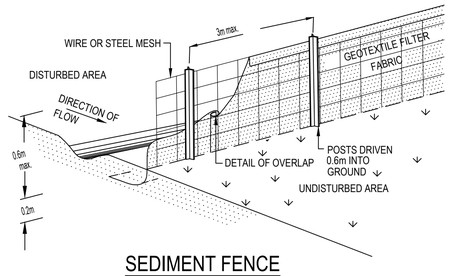


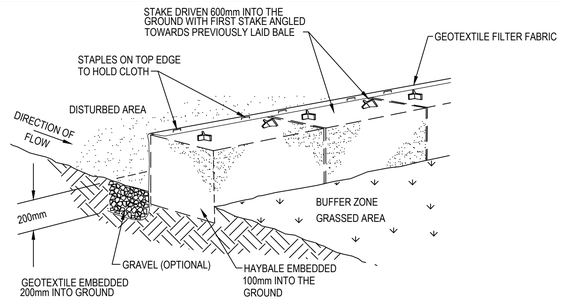
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



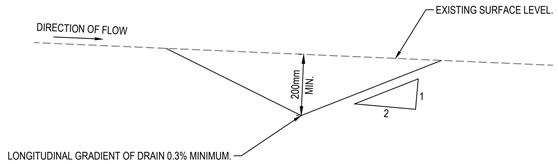
SEDIMENT FENCE

NTS



HAYBALE AND GEOTEXTILE SEDIMENT FILTER

NTS



CATCH DRAIN DETAIL

SCALE 1:10

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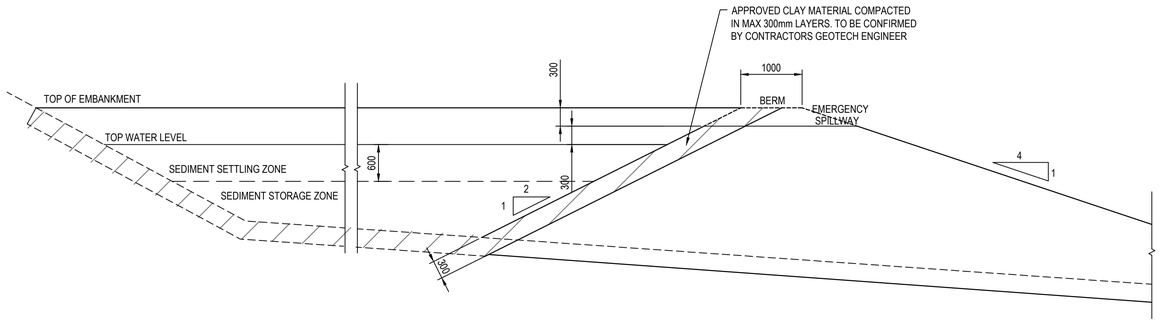
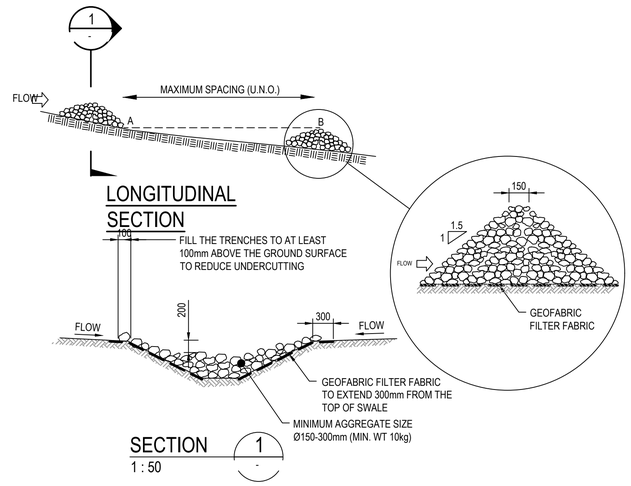


SEDIMENT BASIN TYPICAL CROSS SECTION

1 : 50



ROCK RIFFLE CHECK DAM (SD 5-4)

1 : 50

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

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Client: mirvac

Scales	1:10 1:50	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

Project - Drawing No.: 18-596-C6120

Issue: 1

100mm on Original

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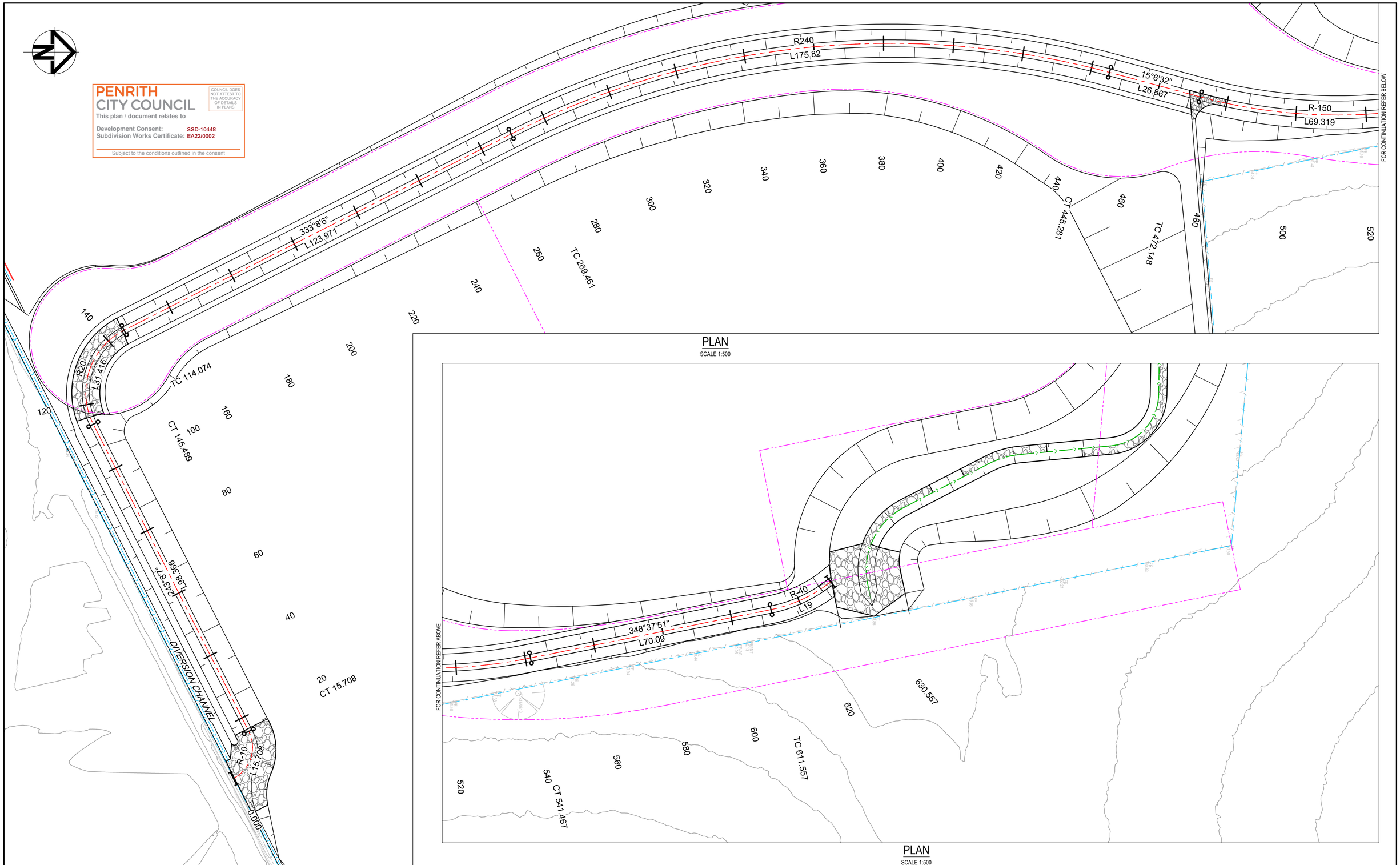
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS



Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: mirvac

Scales	1:500	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: UPSTREAM DIVERSION CHANNEL CONTROL PLAN

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C6200
Issue: 1

100mm on Original

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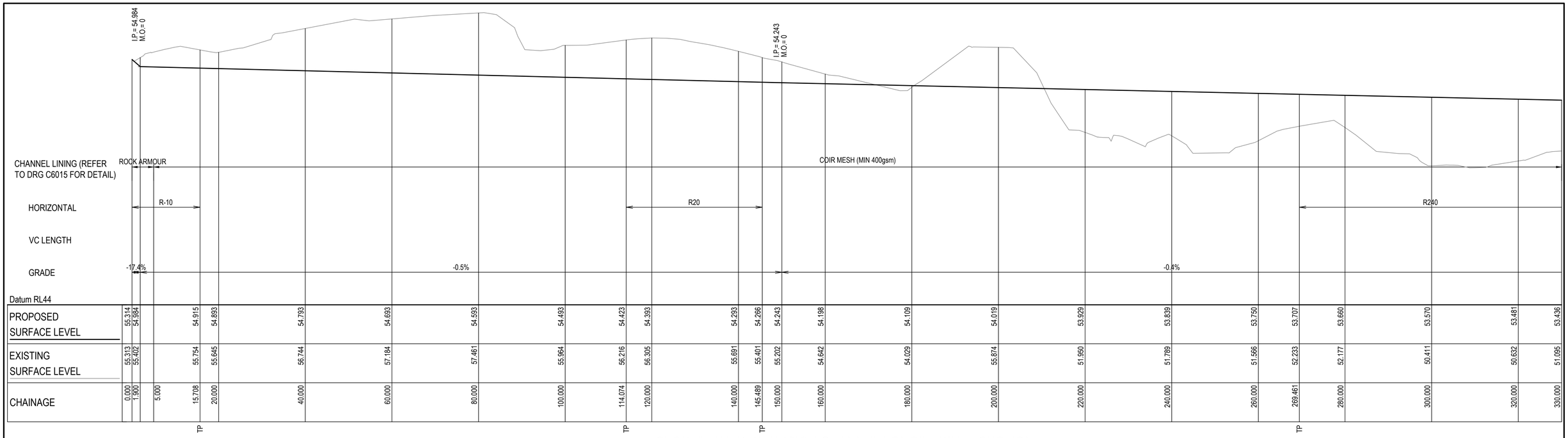

STORMWATER DIVERSION CHANNEL LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

PENRITH CITY COUNCIL
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Development Consent: SSD-10448
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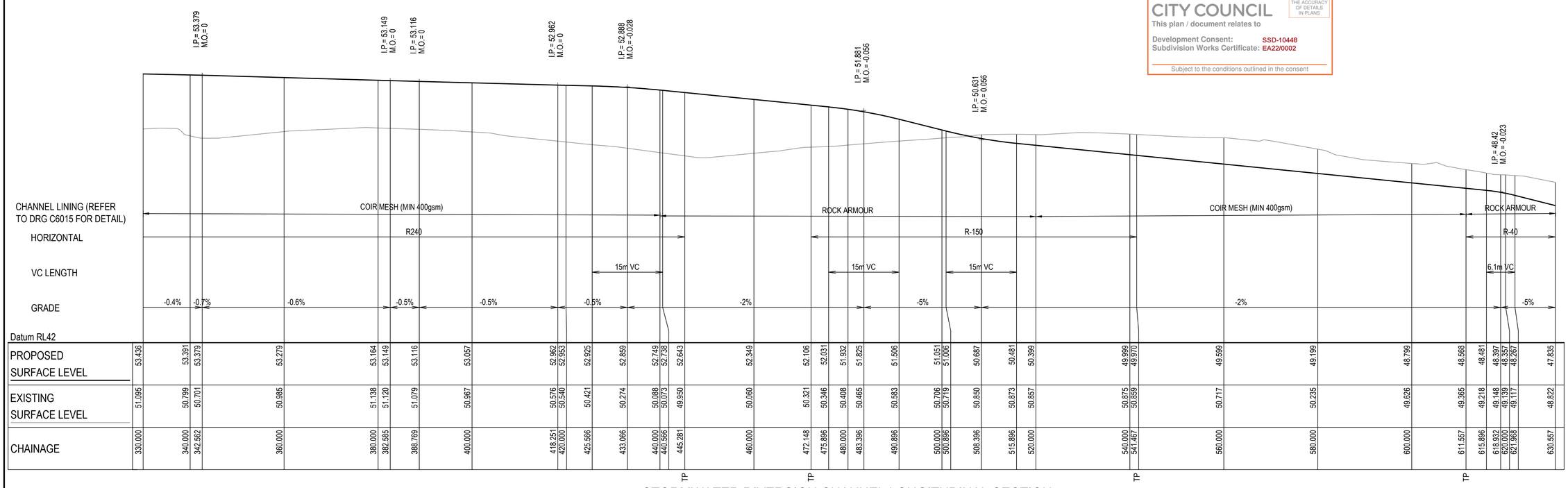

STORMWATER DIVERSION CHANNEL LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

100mm on Original

Bar Scales

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: mirvac

Scales	1:500 (H) 1:250 (V)	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: UPSTREAM DIVERSION CHANNEL LONGITUDINAL SECTION

Civil Engineers and Project Managers
at&l
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C6210
Issue: 1

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6210.dwg

PENRITH CITY COUNCIL

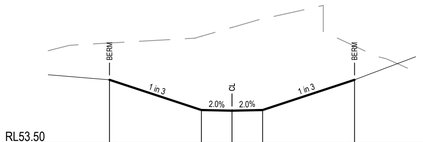
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to

Development Consent: SSD-10448

Subdivision Works Certificate: EA22/0002

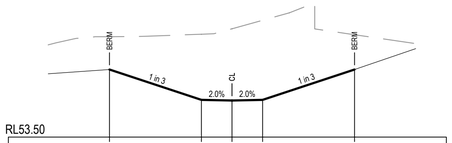
Subject to the conditions outlined in the consent



RL53.50

55.603	54.613	54.593	54.613	55.603
56.803	57.022	57.311	57.589	56.704
-4.000	-1.000	0.000	1.000	4.000

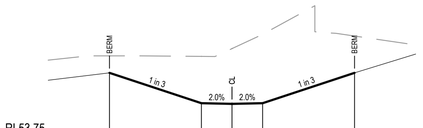
CH 80



RL53.50

55.703	54.713	54.693	54.713	55.703
56.777	56.856	57.034	57.312	56.840
-4.000	-1.000	0.000	1.000	4.000

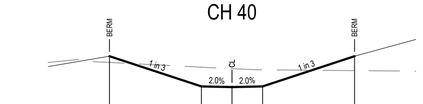
CH 60



RL53.75

55.803	54.813	54.793	54.813	55.803
56.360	56.343	56.594	57.063	57.006
-4.000	-1.000	0.000	1.000	4.000

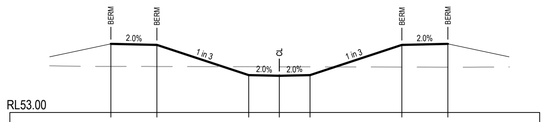
CH 40



RL53.75

PROPOSED SURFACE LEVEL	55.903	54.913	54.893	54.913	55.903	
EXISTING SURFACE LEVEL	55.697	55.542	55.495	55.457	55.431	
CENTRELINE OFFSET	-4.000	-1.000	0.000	1.000	4.000	

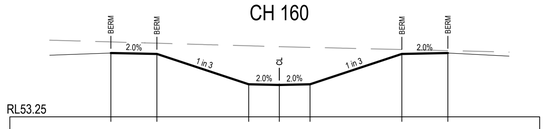
CH 20



RL53.00

55.238	55.208	54.218	54.198	54.218	55.208	55.238
54.505	54.501	54.494	54.492	54.490	54.483	54.479
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

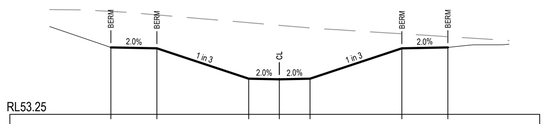
CH 160



RL53.25

55.333	55.303	54.313	54.293	54.313	55.303	55.333
55.697	55.654	55.569	55.541	55.517	55.447	55.412
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

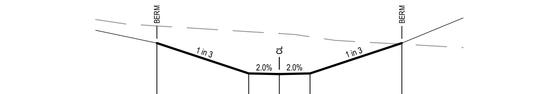
CH 140



RL53.25

55.433	55.403	54.413	54.393	54.413	55.403	55.433
56.609	56.495	56.240	56.155	56.069	55.878	55.784
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

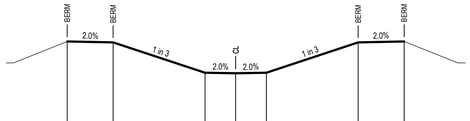
CH 120



RL53.25

55.503	54.513	54.493	54.513	55.503	
56.064	55.877	55.814	55.710	55.468	
-4.000	-1.000	0.000	1.000	4.000	

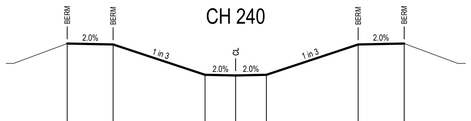
CH 100



RL49.25

54.879	54.849	53.859	53.839	53.859	54.849	54.879
51.424	51.285	51.758	51.789	51.769	51.606	51.524
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

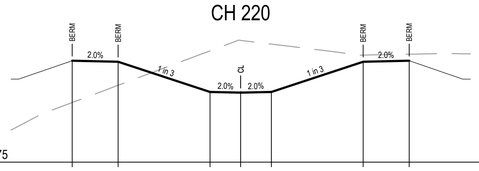
CH 240



RL50.50

54.969	54.939	53.949	53.929	53.949	54.939	54.969
51.676	51.857	51.956	51.950	51.944	52.079	52.289
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

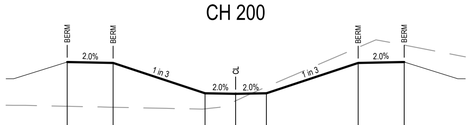
CH 220



RL51.75

55.059	55.029	54.039	54.019	54.039	55.029	55.059
53.697	54.259	55.383	55.724	55.602	55.244	55.274
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

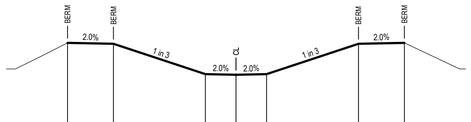
CH 200



RL52.50

55.149	55.119	54.129	54.109	54.129	55.119	55.149
53.703	53.671	53.618	53.879	54.334	55.624	55.700
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

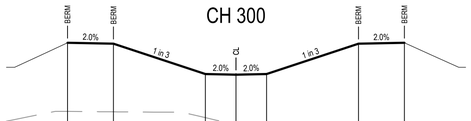
CH 180



RL49.25

54.610	54.580	53.590	53.570	53.590	54.580	54.610
50.998	50.878	50.415	50.411	50.440	50.530	50.548
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

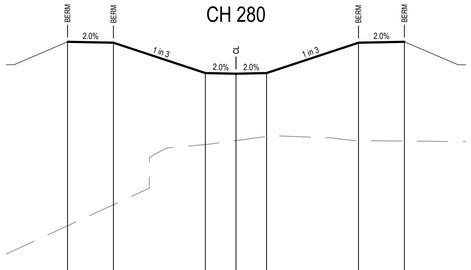
CH 300



RL50.25

54.700	54.670	53.680	53.660	53.680	54.670	54.700
52.460	52.447	52.257	52.027	51.948	51.329	51.337
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

CH 280



RL46.75

54.790	54.760	53.770	53.750	53.770	54.760	54.790
48.784	49.475	51.438	51.566	51.703	51.566	51.551
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

CH 260

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: UPSTREAM DIVERSION CHANNEL CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers

at&l

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North Sydney NSW 2060
ABN 96 130 882 405
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

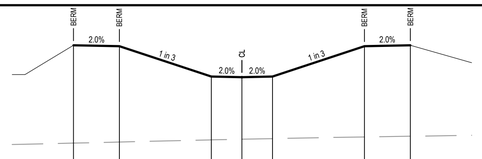
Project - Drawing No.: 18-596-C6220

Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6220.dwg

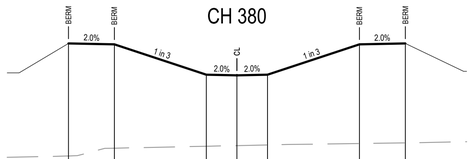
PENRITH CITY COUNCIL
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent



RL49.75

54.204	54.174	53.184	53.164	53.184	54.174	54.204
51.012	51.047	51.117	51.138	51.158	51.214	51.236
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

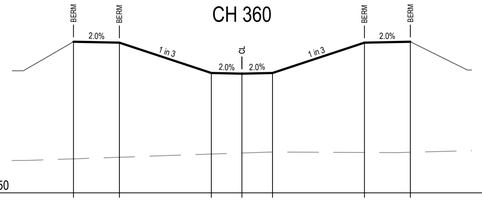
CH 380



RL49.50

54.319	54.289	53.299	53.279	53.299	54.289	54.319
50.646	50.899	50.963	50.985	51.006	51.052	51.073
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

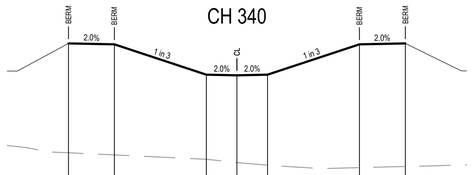
CH 360



RL49.50

54.431	54.401	53.411	53.391	53.411	54.401	54.431
50.608	50.660	50.764	50.799	50.829	50.816	50.822
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

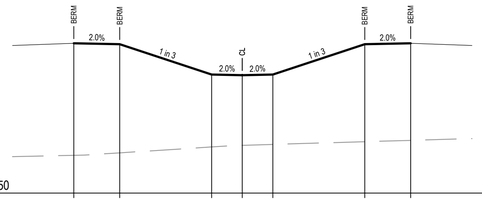
CH 340



RL49.25

PROPOSED SURFACE LEVEL	54.521	54.491	53.501	53.481	53.501	54.491	54.521
EXISTING SURFACE LEVEL	50.951	50.881	50.739	50.632	50.550	50.467	50.503
CENTRELINE OFFSET	-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

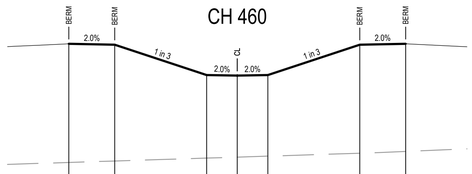
CH 320



RL48.50

53.389	53.359	52.369	52.349	52.369	53.359	53.389
49.732	49.814	50.006	50.060	50.090	50.177	50.221
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

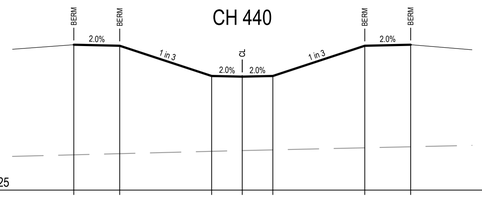
CH 460



RL48.75

53.789	53.759	52.769	52.749	52.769	53.759	53.789
49.914	49.961	50.056	50.088	50.120	50.215	50.275
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

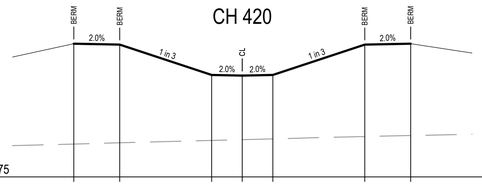
CH 440



RL49.25

53.993	53.963	52.973	52.953	52.973	53.963	53.993
50.401	50.439	50.516	50.540	50.563	50.630	50.663
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

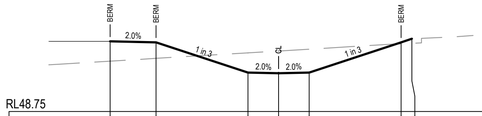
CH 420



RL49.75

54.097	54.067	53.077	53.057	53.077	54.067	54.097
50.824	50.863	50.941	50.967	50.993	51.069	51.100
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

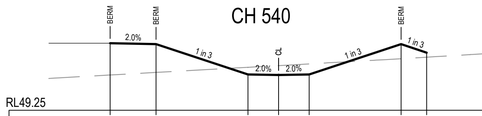
CH 400



RL48.75

51.039	51.009	50.019	49.999	50.019	51.009	51.126
50.394	50.484	50.665	50.725	50.785	50.960	50.976
-5.500	-4.000	-1.000	0.000	1.000	4.000	4.350

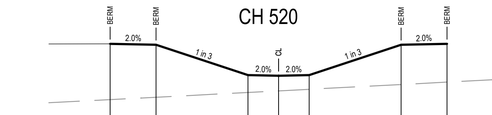
CH 540



RL49.25

51.439	51.409	50.419	50.399	50.419	51.409	51.131
50.400	50.484	50.651	50.707	50.763	50.931	50.981
-5.500	-4.000	-1.000	0.000	1.000	4.000	4.835

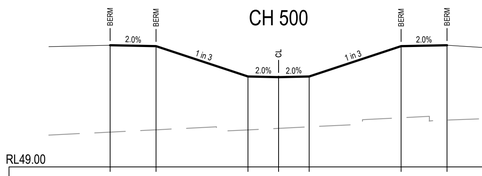
CH 520



RL49.00

52.091	52.061	51.071	51.051	51.071	52.061	52.091
50.272	50.348	50.504	50.556	50.608	50.764	50.842
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

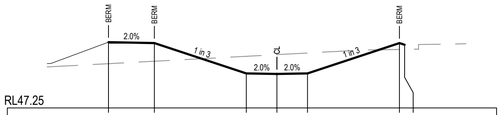
CH 500



RL49.00

52.972	52.942	51.952	51.932	51.952	52.942	52.972
50.137	50.212	50.209	50.258	50.308	50.606	50.530
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.500

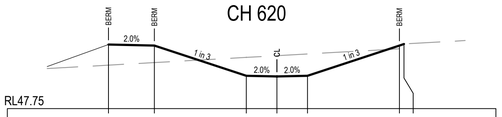
CH 560



RL47.25

49.397	49.367	48.377	48.357	48.377	49.367	49.310
48.693	48.774	48.935	48.989	49.042	49.157	49.160
-5.500	-4.000	-1.000	0.000	1.000	4.000	4.171

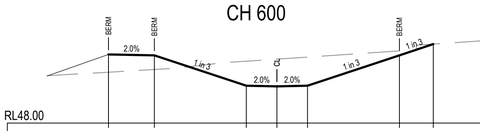
CH 620



RL47.75

49.839	49.809	48.819	48.799	48.819	49.809	49.859
49.168	49.252	49.420	49.476	49.532	49.700	49.709
-5.500	-4.000	-1.000	0.000	1.000	4.000	4.149

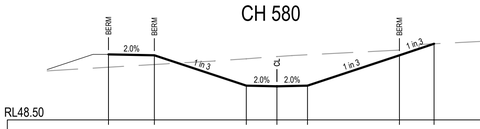
CH 600



RL48.00

50.239	50.209	49.219	49.199	49.219	50.209	50.577
49.660	49.747	50.017	50.085	50.152	50.353	50.577
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.106

CH 580



RL48.50

50.639	50.609	49.619	49.599	49.619	50.609	50.985
50.220	50.308	50.497	50.567	50.627	50.779	50.985
-5.500	-4.000	-1.000	0.000	1.000	4.000	5.130

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: mirvac

Scales	1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

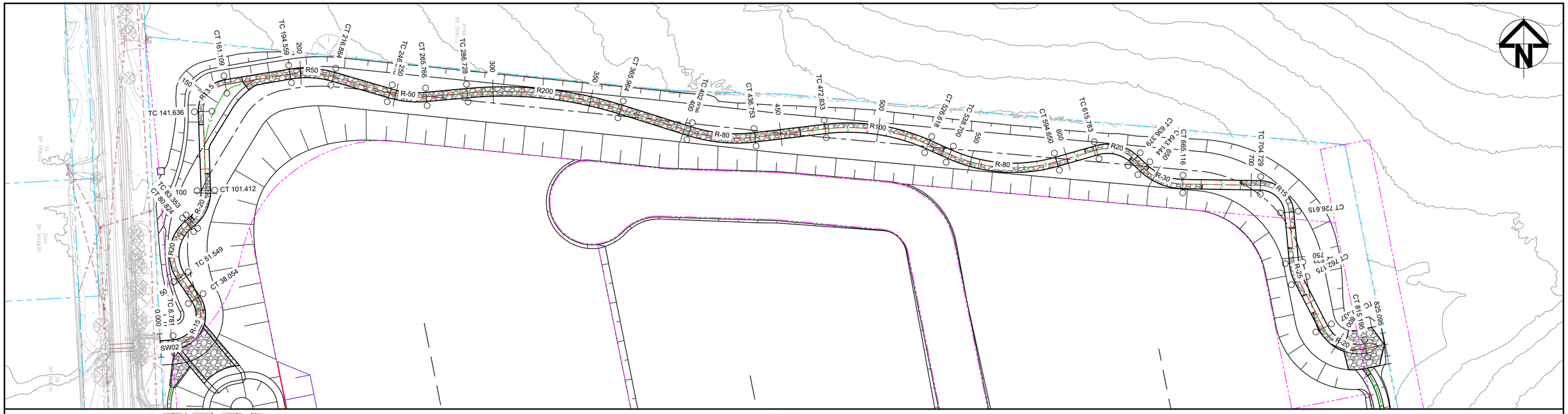
Title: UPSTREAM DIVERSION CHANNEL CROSS SECTIONS SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6221
Issue: 1

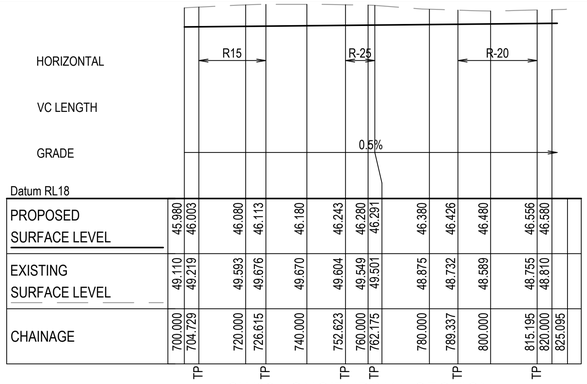
100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6221.dwg



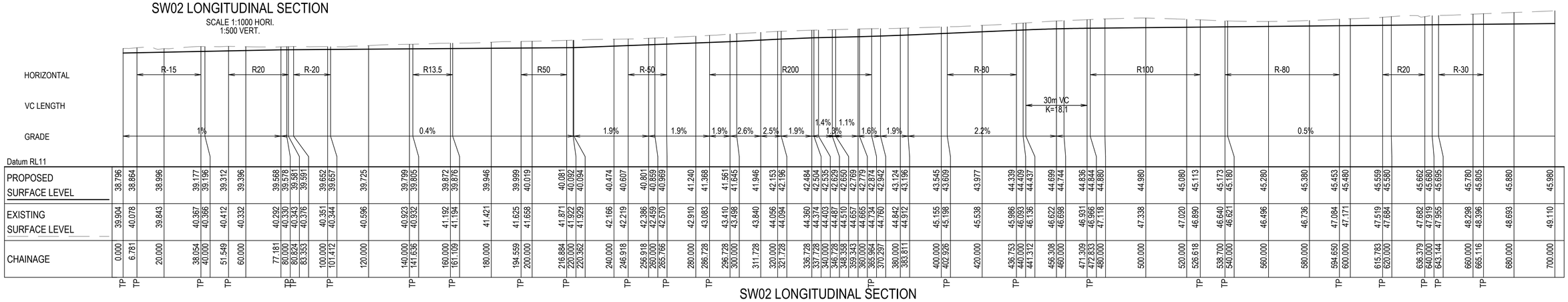
PLAN

SCALE 1:1000



SW02 LONGITUDINAL SECTION

SCALE 1:1000 HORI.
1:500 VERT.



SW02 LONGITUDINAL SECTION

SCALE 1:1000 HORI.
1:500 VERT.

PENRITH CITY COUNCIL

This plan / document relates to

Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

SCHEDULE OF LOW FLOW CHANNEL TOE PROTECTION LOCATIONS			
NORTH BANK OF CHANNEL		SOUTH BANK OF CHANNEL	
DOWNSTREAM CH.	UPSTREAM CH.	DOWNSTREAM CH.	UPSTREAM CH.
0	85	0	45
135	170	75	110
460	535	530	600
610	645	635	675
695	735	745	770
		780	825

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

0 20 40 60 80 100m
1 : 1000 @ A1 1 : 2000 @ A3

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Client: mirvac

Scales: 1:1000
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn: KLR
Designed: KLR
Checked: DS
Approved: AT

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

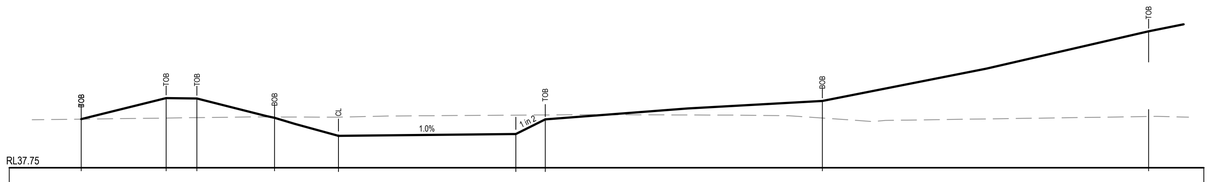
Title: RIPARIAN CORRIDOR PLAN AND LONGSECTION

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C6300
Issue: 1

100mm on Original

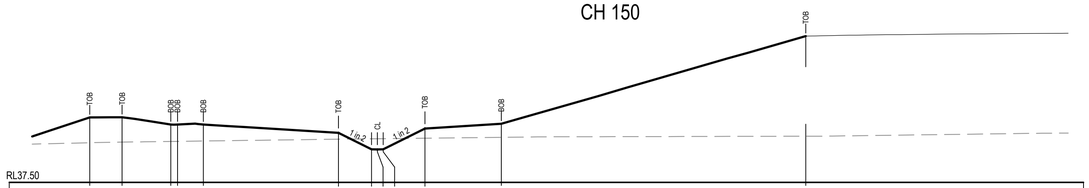
F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6300.dwg



RL37.75

40.922	42.297	42.276	41.007	39.835	39.951	40.911	42.108	46.655
40.922	40.995	41.022	41.067	41.056	41.185	41.198	40.993	41.095
-16.79	-11.25	-9.24	-4.18	0.000	11.581	13.500	31.59	52.89

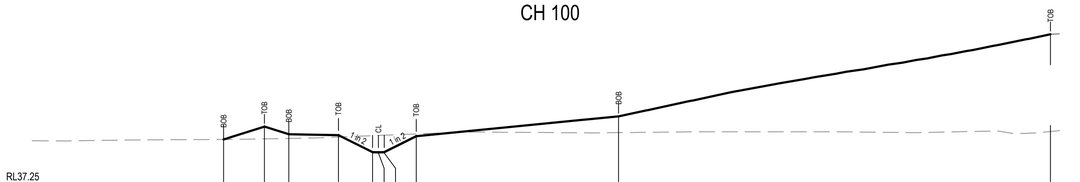
CH 150



RL37.50

41.74	41.754	41.276 41.276	41.273	40.737	39.656 39.652 39.656	41.016	41.325	47.046
40.089	40.128	40.173 40.173 40.179	40.201	40.320	40.347 40.351 40.356	40.386	40.443	40.514
-18.78	-16.67	-13.49 -13.49 -13.49	-11.37	-2.542	-0.380 0.000 0.380	3.100	8.09	27.97

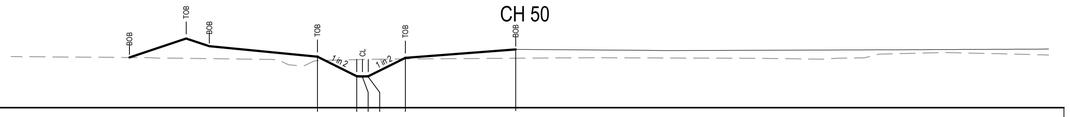
CH 100



RL37.25

40.131	40.975	40.472	40.414	39.300 39.296 39.300	40.345	41.639	46.999
40.131	40.17	40.199	40.292	40.380 40.395 40.410	40.493	40.577	40.649
-10.11	-7.44	-5.85	-2.608	-0.380 0.000 0.380	2.471	15.68	43.88

CH 50



RL36.75

PROPOSED SURFACE LEVEL				40.080	38.800 38.795 38.800	40.009	40.556	
EXISTING SURFACE LEVEL				39.830	38.894 39.914 39.912	39.931	39.981	
CENTRELINE OFFSET				-2.941	-0.380 0.000 0.380	2.798	10	

CH 0

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

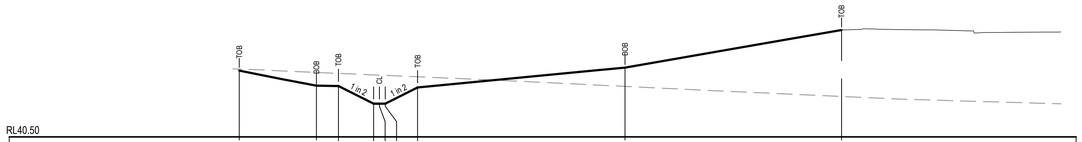
Title: RIPARIAN CORRIDOR CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6351
Issue: 1

100mm on Original

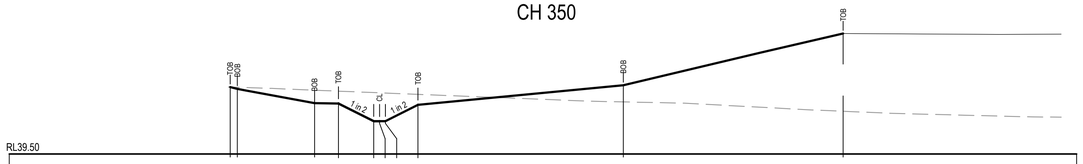
F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6351.dwg



RL40.50

	44.831	43.844	43.819	42.672 42.668 42.672	43.728	45.028	47.477
	44.931	44.711	44.648	44.549 44.453 44.516	44.425	43.799	43.143
	-9.16	-4.12	-2.674	-0.380 0.000 0.380	2.493	16.03	30.17

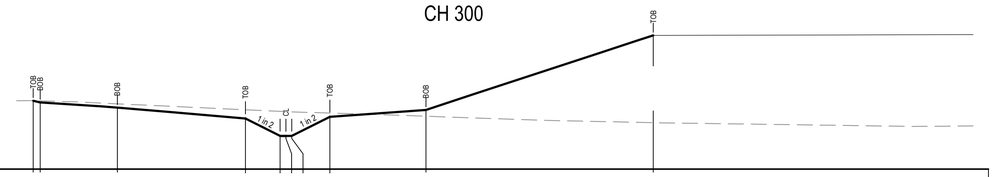
CH 350



RL39.50

	43.871 43.756	42.824	42.799	41.649 41.645 41.649	42.716	43.989	47.372
	43.871 43.856	43.668	43.606	43.514 43.498 43.483	43.398	42.905	42.294
	-3.75 -3.28	-4.24	-2.680	-0.380 0.000 0.380	2.513	15.92	30.27

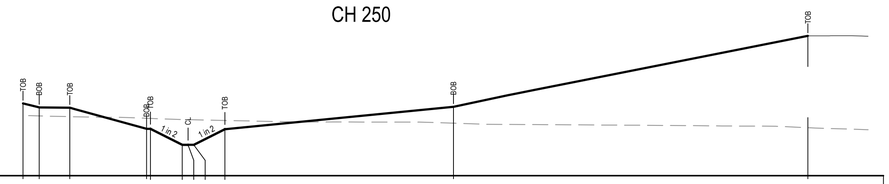
CH 300



RL38.50

	42.867 42.854	42.513	41.802	40.671 40.667 40.671	41.915	42.365	47.231
	42.867 42.854	42.762	42.375	42.270 42.252 42.235	42.160	41.953	41.532
	-16.5 -16.05	-11.01	-2.642	-0.380 0.000 0.380	2.868	9.14	23.99

CH 250



RL38.00

PROPOSED SURFACE LEVEL	42.722	42.459	42.44	41.861 41.861 41.861	40.023 40.019 40.023	41.036	42.501	47.127
EXISTING SURFACE LEVEL	41.904	41.855	41.748 41.748 41.748	41.668 41.658 41.650	41.607	41.428	41.135
CENTRELINE OFFSET	-10.77 -9.72	-7.72	-2.71 -2.434	-0.380 0.000 0.380	2.406	17.33	40.47

CH 200

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	1:100	Drawn	KLR
		Designed	KLR
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	AT

GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

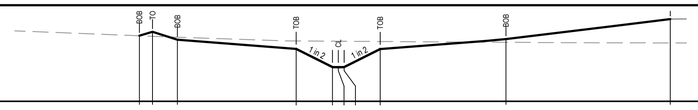
Title
RIPARIAN CORRIDOR
CROSS SECTIONS
SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6352
Issue: 1

100mm on Original

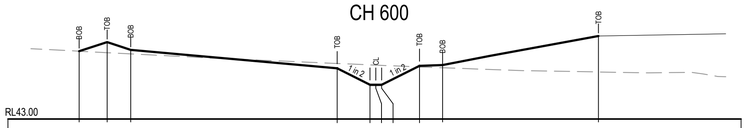
F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6352.dwg



RL43.25

47.533	47.533	47.271	46.669	45.484	46.659	47.316	48.621
47.526	47.492	47.43	47.189	47.174	47.154	47.101	47.06
-12.99	-12.13	-10.5	-2.750	-0.380	2.731	10.95	21.67

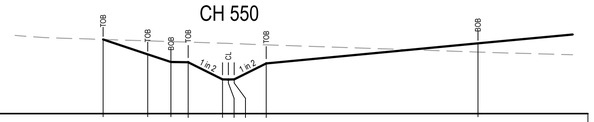
CH 600



RL43.00

47.424	48.014	47.507	46.306	45.224	46.468	46.522	48.413
47.424	47.328	47.248	46.624	46.532	46.396	46.342	46.068
-19.37	-17.55	-16	-2.524	-0.380	2.849	4.36	14.54

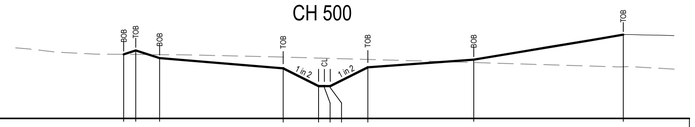
CH 550



RL42.75

47.593	46.622	46.122	46.105	44.984	46.032	47.337
47.593	47.503	47.455	47.420	47.350	47.240	46.771
-8.18	-5.26	-3.75	-2.622	-0.380	2.477	16.29

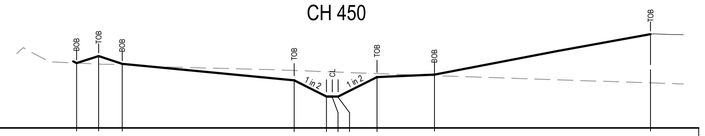
CH 500



RL42.50

46.68	46.933	46.431	45.762	44.608	45.835	46.329	47.965
46.68	46.674	46.662	46.499	46.434	46.343	46.145	45.867
-13.1	-12.32	-10.76	-2.689	-0.380	2.834	9.75	19.51

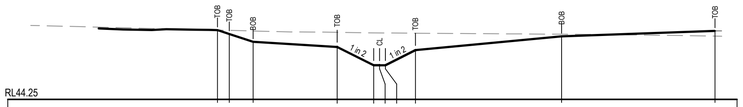
CH 450



RL41.50

PROPOSED SURFACE LEVEL	45.735	46.194	45.682	44.604	43.549	44.819	44.977	47.621
EXISTING SURFACE LEVEL	45.736	45.669	45.644	45.249	45.169	45.044	44.91	44.44
CENTRELINE OFFSET	-16.7	-15.26	-13.72	-2.490	-0.380	2.919	6.67	20.78

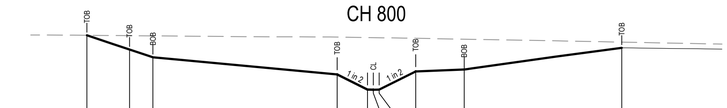
CH 400



RL44.25

48.776	48.519	48.008	47.677	46.484	47.467	48.369	48.725
48.776	48.756	48.717	48.629	48.591	48.573	48.507	48.38
-10.58	-9.81	-8.25	-2.767	-0.380	2.346	11.89	21.91

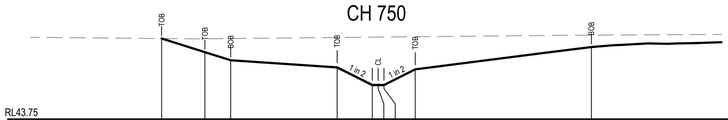
CH 800



RL44.00

49.782	48.853	48.347	47.226	46.234	47.426	47.549	48.967
49.782	49.758	49.745	49.667	49.636	49.586	49.529	49.338
-18.7	-15.92	-14.39	-2.366	-0.380	2.765	5.93	16.22

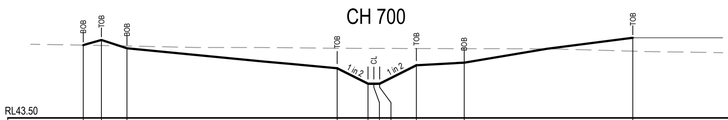
CH 750



RL43.75

49.017	48.123	47.599	47.133	45.984	47.002	48.461
49.017	48.999	49.015	49.083	49.106	49.134	49.239
-14.14	-11.31	-9.62	-2.678	-0.380	2.417	13.93

CH 700



RL43.50

48.252	48.587	48.049	46.741	45.734	46.935	47.107	48.728
48.252	48.229	48.194	48.049	48.039	48.031	48.022	47.859
-18.97	-17.78	-16.11	-2.395	-0.380	2.783	5.9	16.91

CH 650

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448
Subdivision Works Certificate: EA22/0002
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

Issue	Description	Date
1	ISSUE FOR CONSTRUCTION	01-07-22

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales: 1:100
Drawn: KLR
Designed: KLR
Grid: MGA2020
Checked: DS
Height Datum: AHD
Approved: AT
GDA2020

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: RIPARIAN CORRIDOR CROSS SECTIONS SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C6353
Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\6000_BEW STAGE 1A CC\18-596-C6353.dwg