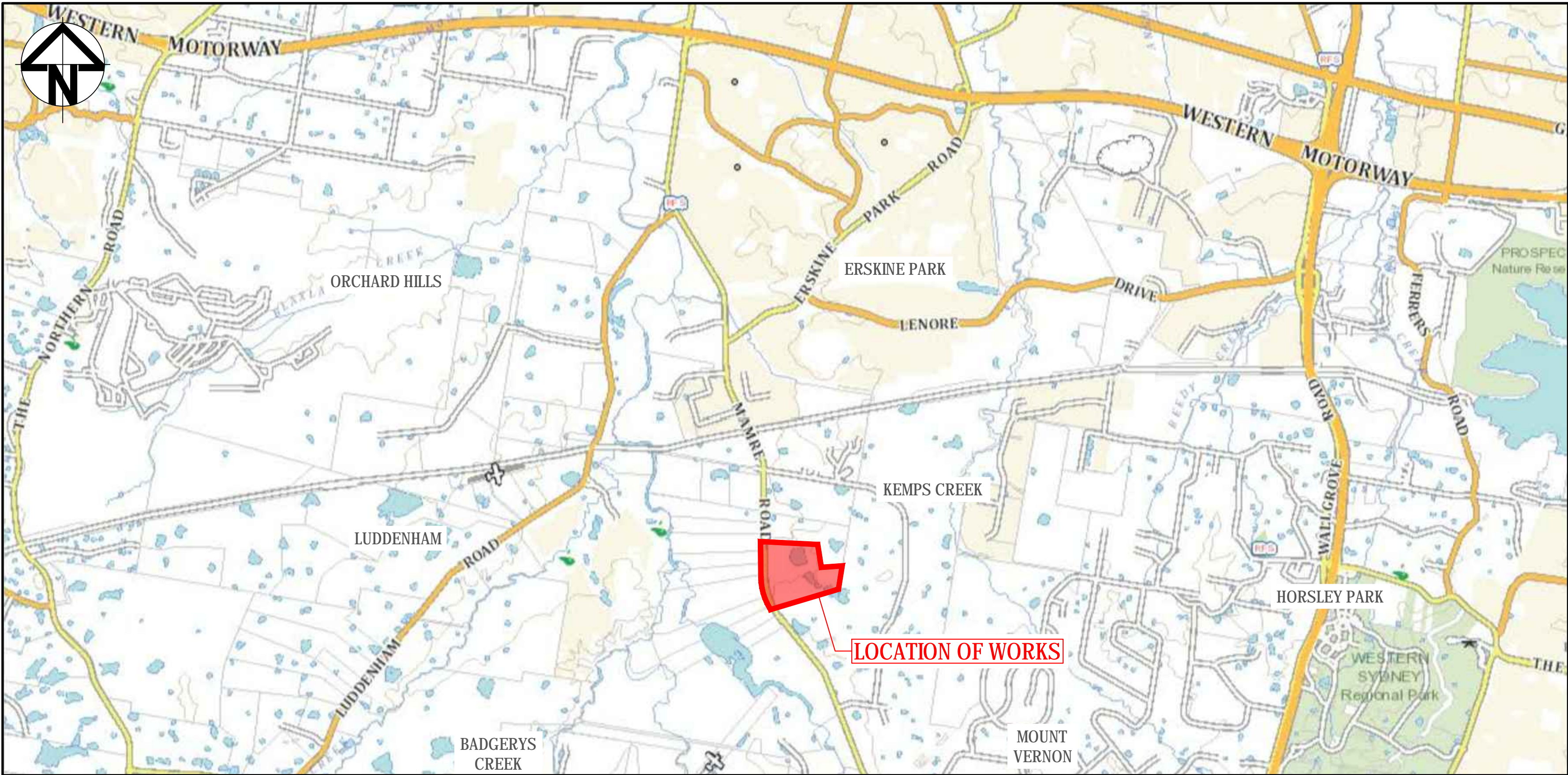


ASPECT INDUSTRIAL ESTATE

STAGE 1 CIVIL WORKS PACKAGE

STATE SIGNIFICANT DEVELOPMENT



LOCALITY PLAN
NOT TO SCALE

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						Designed	PDK				
						Grid	MGA			Checked	AT
						Height Datum	AHD			Approved	AM
C	ISSUED FOR DEVELOPMENT APPLICATION				15-10-20						
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20									
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20									
Issue	Description	Date	COVER SHEET AND LOCALITY PLAN							Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
									Project - Drawing No. 18-596-C1000	Issue C	

DRAWING LIST	
DRAWING No.	DRAWING TITLE
18-596-C1000	COVER SHEET AND LOCALITY PLAN
18-596-C1001	DRAWING LIST
18-596-C1002	NOTES AND LEGENDS SHEET
18-596-C1003	GENERAL ARRANGEMENT PLAN
18-596-C1005	TYPICAL ROAD SECTIONS SHEET 1
18-596-C1006	TYPICAL ROAD SECTIONS SHEET 2
18-596-C1010	TYPICAL SECTIONS SHEET 1
18-596-C1011	TYPICAL SECTIONS SHEET 2
18-596-C1012	TYPICAL SECTIONS SHEET 3
18-596-C1020	BULK EARTHWORKS CONTOUR PLAN
18-596-C1021	BULK EARTHWORKS SECTIONS SHEET 1
18-596-C1022	BULK EARTHWORKS SECTIONS SHEET 2
18-596-C1025	BULK EARTHWORKS CUT/FILL PLAN
18-596-C1030	BULK EARTHWORKS PLAN SHEET 1
18-596-C1031	BULK EARTHWORKS PLAN SHEET 2
18-596-C1032	BULK EARTHWORKS PLAN SHEET 3
18-596-C1033	BULK EARTHWORKS PLAN SHEET 4
18-596-C1034	BULK EARTHWORKS PLAN SHEET 5
18-596-C1035	BULK EARTHWORKS PLAN SHEET 6
18-596-C1036	BULK EARTHWORKS PLAN SHEET 7
18-596-C1037	BULK EARTHWORKS PLAN SHEET 8
18-596-C1038	BULK EARTHWORKS PLAN SHEET 9
18-596-C1039	BULK EARTHWORKS PLAN SHEET 10
18-596-C1040	STORMWATER DRAINAGE OVERALL PLAN
18-596-C1045	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
18-596-C1046	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)
18-596-C1050	ROADWORKS AND STORMWATER DRAINAGE SHEET 1
18-596-C1051	ROADWORKS AND STORMWATER DRAINAGE SHEET 2
18-596-C1052	ROADWORKS AND STORMWATER DRAINAGE SHEET 3
18-596-C1053	ROADWORKS AND STORMWATER DRAINAGE SHEET 4
18-596-C1054	ROADWORKS AND STORMWATER DRAINAGE SHEET 5
18-596-C1055	ROADWORKS AND STORMWATER DRAINAGE SHEET 6
18-596-C1056	ROADWORKS AND STORMWATER DRAINAGE SHEET 7
18-596-C1057	ROADWORKS AND STORMWATER DRAINAGE SHEET 8
18-596-C1058	ROADWORKS AND STORMWATER DRAINAGE SHEET 9
18-596-C1070	ROAD 01 LONGITUDINAL SECTION SHEET 1
18-596-C1071	ROAD 02 LONGITUDINAL SECTION SHEET 1
18-596-C1072	ROAD 02 LONGITUDINAL SECTION SHEET 2
18-596-C1080	RETAINING WALL GENERAL ARRANGEMENT PLAN
18-596-C1081	RETAINING WALL PROFILES SHEET 1
18-596-C1082	RETAINING WALL PROFILES SHEET 2
18-596-C1090	SERVICES AND UTILITIES COORDINATION OVERALL PLAN
18-596-C1091	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1

18-596-C1092	SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
18-596-C1093	SERVICES AND UTILITIES COORDINATION PLAN SHEET 3
18-596-C1110	EROSION AND SEDIMENT CONTROL PLAN SHEET 1
18-596-C1111	EROSION AND SEDIMENT CONTROL PLAN SHEET 2
18-596-C1112	EROSION AND SEDIMENT CONTROL PLAN SHEET 3
18-596-C1113	EROSION AND SEDIMENT CONTROL PLAN SHEET 4
18-596-C1114	EROSION AND SEDIMENT CONTROL PLAN SHEET 5
18-596-C1115	EROSION AND SEDIMENT CONTROL PLAN SHEET 6
18-596-C1116	EROSION AND SEDIMENT CONTROL PLAN SHEET 7
18-596-C1117	EROSION AND SEDIMENT CONTROL PLAN SHEET 8
18-596-C1118	EROSION AND SEDIMENT CONTROL PLAN SHEET 9
18-596-C1119	EROSION AND SEDIMENT CONTROL PLAN SHEET 10
18-596-C1120	EROSION AND SEDIMENT CONTROL DETAILS
18-596-C1150	VEHICLE TURN PATHS PLAN SHEET 1
18-596-C1151	VEHICLE TURN PATHS PLAN SHEET 2
18-596-C1152	VEHICLE TURN PATHS PLAN SHEET 3
18-596-C1153	VEHICLE TURN PATHS PLAN SHEET 4

			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 <div></div>	Scales	Drawn	PDK	Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1	Civil Engineers and Project Managers <div></div> <div>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</div>					
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100mm on Original															

1. ORIGINAL 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 COMPACTED 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 AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m 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 ACCEPTED. SUFFICIENT MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. 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

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.

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.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

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.

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.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2. CONCRETE QUALITY

ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 Fc Mpa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL

- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN

CONTINUED FROM BELOW

3. 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.

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 S 2.1).
3. EXPANSION JOINTS (E-) TO BE FORMED FROM 10mm COMPRESSIBLE POLYMER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT PORTIONS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOM FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-
IF REQUIRED EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm N.B. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.O.

STORMWATER DESIGN CRITERIA:

(A) AVERAGE RECURRENT INTERVAL:

1:100 YEARS: MAJOR STORM (OVERLAND FLOW)

1:20 YEARS: MINOR STORM (PIPED NETWORK)

(B) RAINFALL INTENSITIES:

TIME OF CONCENTRATION: 5 MINUTES

1:100 YEARS: 219 mm/hr

1:20 YEARS: 187 mm/hr

(C) RUNOFF COEFFICIENTS:

ROOF AREAS: C 100 =1.0

EXTERNAL PAVEMENTS: C 100 =1.0

PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER GIRD JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O..

PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS.

EQUVALENT STRENGTH VCP OR FRP PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENNETH CITY COUNCIL.

ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE, GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPS ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.

PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 IN ALL CASES BACKFILL TRENCH 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 COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)

ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).

ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

GRATES AND COVERS SHOULD CONFORM TO AS 3996 AND PENNETH CITY COUNCIL CONSTRUCTION SPECIFICATIONS.

AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY

F. ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / PENRITH CITY COUNCIL.

G. ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.

H. PIPE JOINTING/SEALING OF PIPE PENETRATION TO BE WITH A NON-SHRINK MORTAR MIX, E.G. LANKO 702 DURABED OR SIMILAR APPROVED.

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 44. 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 CLIMATIC 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.

1. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A SUITABLY QUALIFIED EROSION AND SEDIMENT CONSULTANT FOR THE DURATION OF THE CONTRACT WITH THE EXPERTISE IN DESIGNING AND DOCUMENTING THE CONTROLS TO ALLOW THE INSTALLATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROLS. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR REQUIRED TO SUIT THE CONSTRUCTION STAGING
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2000
 - b. LOCAL AUTHORITY REQUIREMENTS
 - c. EPA REQUIREMENTS
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.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN / INSTALLED AS DIRECTED BY THE CONTRACTORS EROSION AND SEDIMENT CONTROL CONSULTANT.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

7. 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.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. 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 CLOSURE 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.

SUBTLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, THROUGHOUT THE FULL TERM OF THE CONTRACT, WHERE SHOWN ON ATLAS DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENNETH CITY COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS REQUIRED TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND THEIR EROSION AND SEDIMENT CONSULTANT AND PROVIDED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

1. ALL FINISHED SURFACE LEVELS ARE $\pm 1000\text{mm}$ U.N.O.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY CARDNO HARD & FORESTER PTY LTD AND LAND PARTNERS PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN, AT I & D 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 & I 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.

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

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.

CONTINUED ABOVE

CONTINUED ABOVE

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Client

Scales

Drawn

Project

ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1

NOTES AND LEGENDS
SHEET

Civil Engineers and Project Managers

— Level 7, 15

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 APPROVAL**
NOT TO BE USED FOR CONSTRUCTION

Issue

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date

100mm on Original



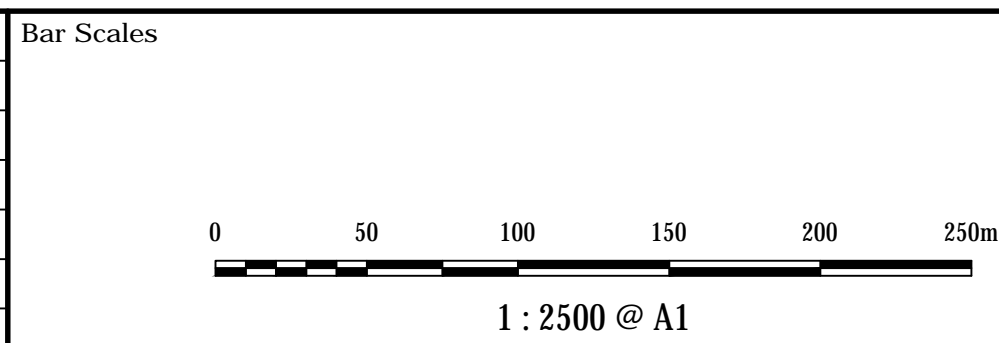
CONTRACTOR SHALL CALL

DIAL BEFORE YOU
DIG 1100

**PRIOR TO COMMENCEMENT OF WORK TO OBTAIN
ALL CURRENT SERVICE AUTHORITY PLANS**



C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date




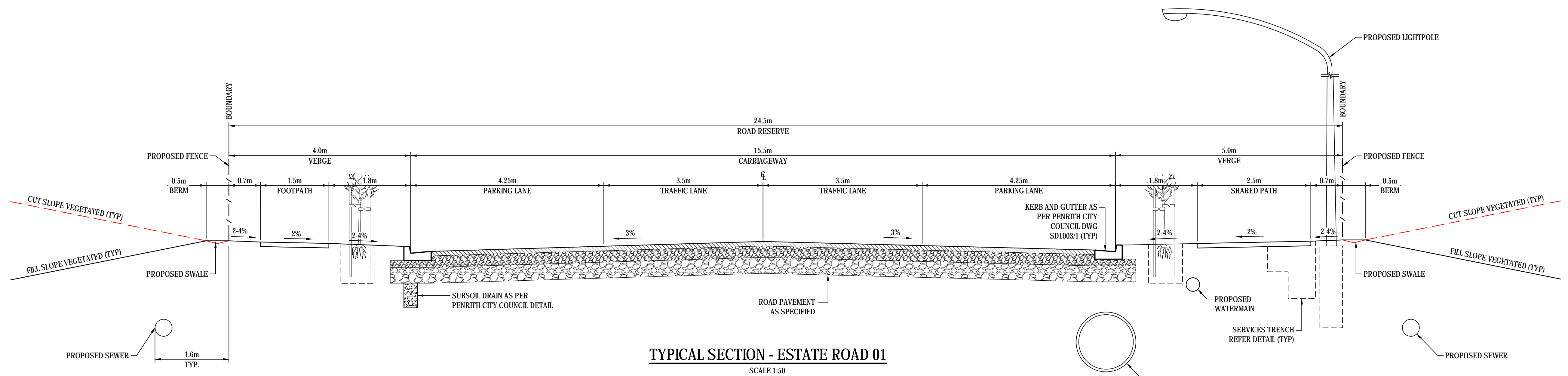
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Grid	MGA	Designed	PDK
Height Datum	AHD	Checked	AT
		Approved	AM

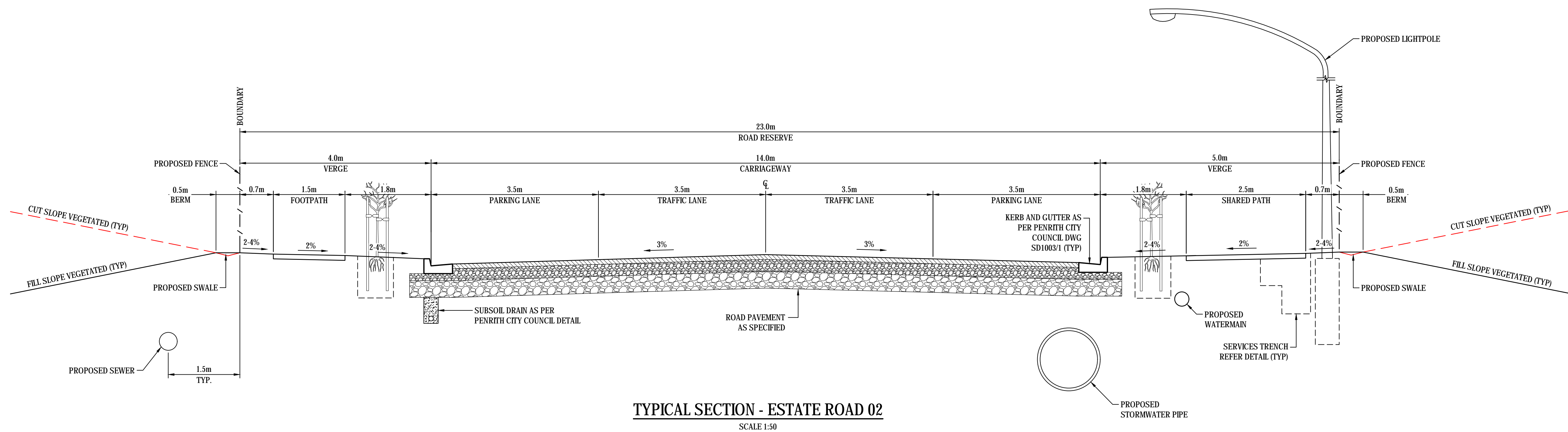
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers		
	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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1003	Issue C



TYPICAL SECTION - ESTATE ROAD 01

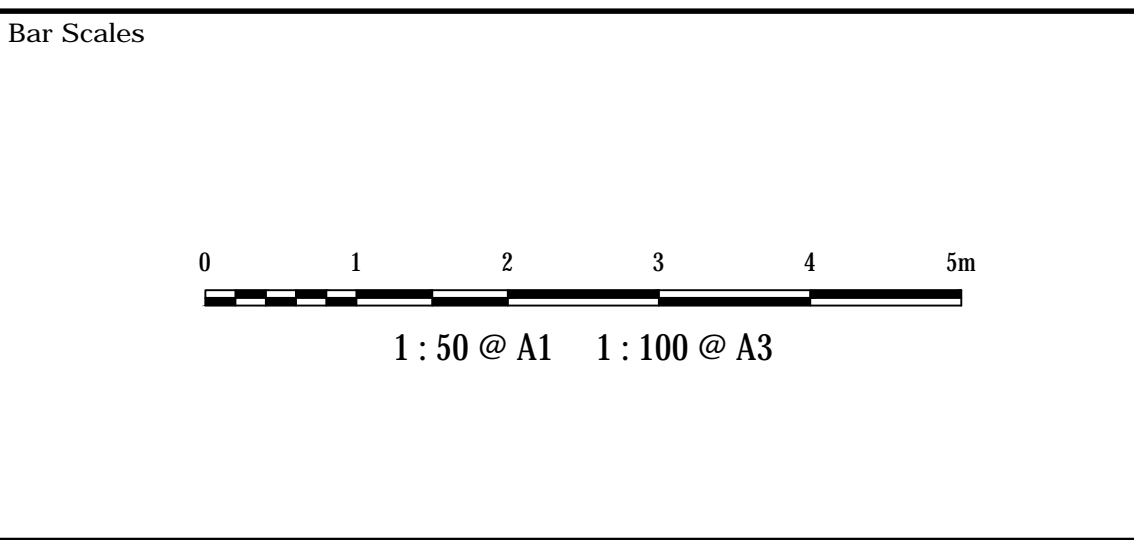
SCALE 1:50



TYPICAL SECTION - ESTATE ROAD 02

SCALE 1:50

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



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		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM

Project
**ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1**

Title
**TYPICAL ROAD SECTIONS
SHEET 1**

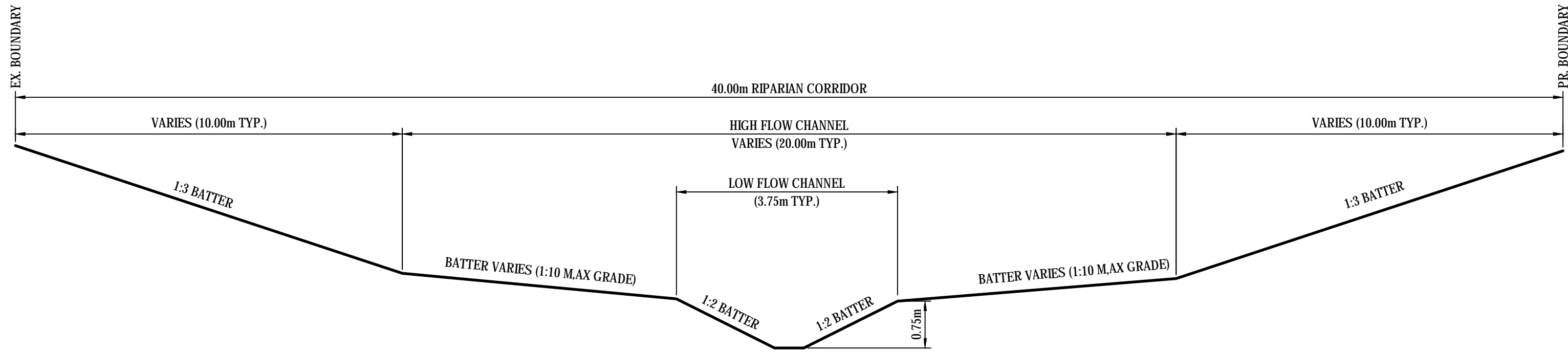
Civil Engineers and Project Managers

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

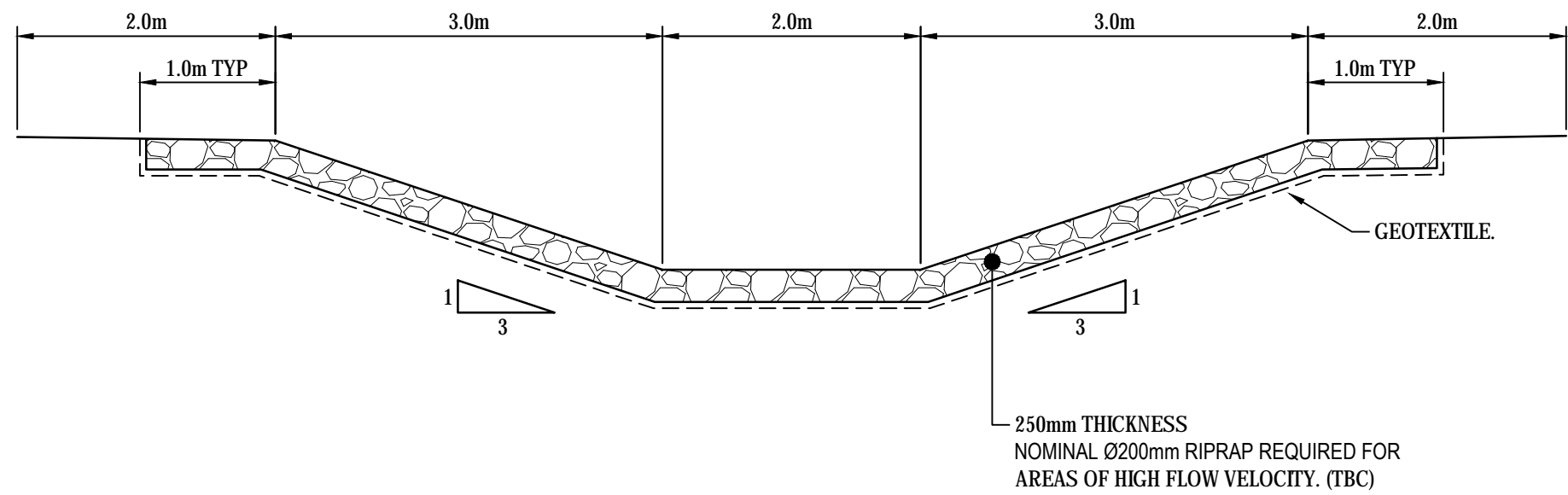
Status
**FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.
18-596-C1005

Issue
C

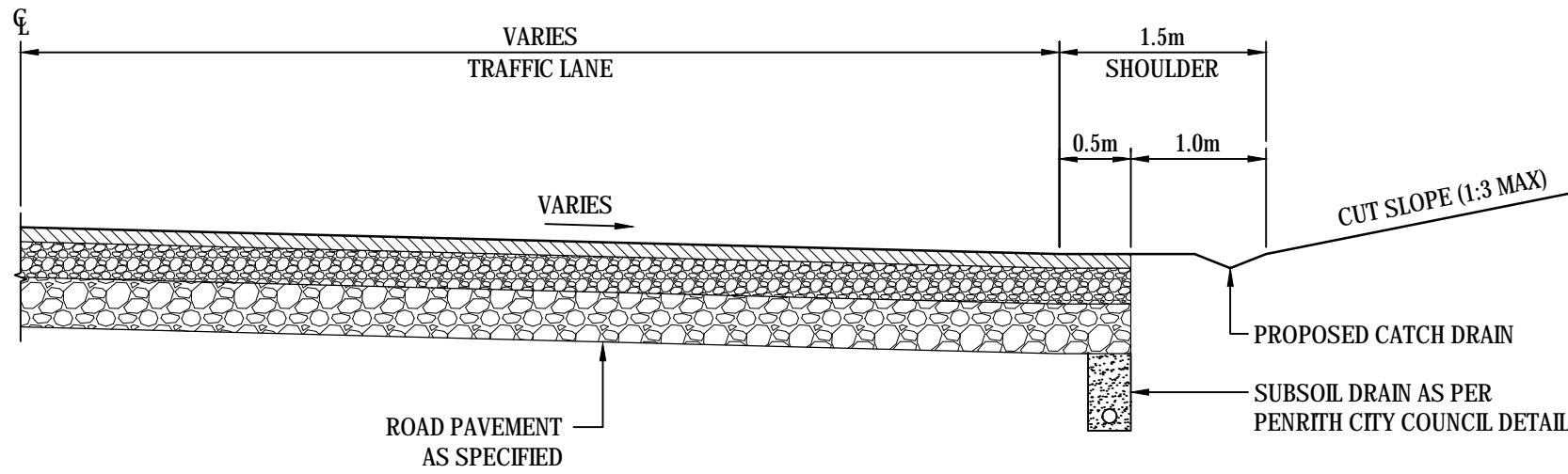


TYPICAL RIPARIAN CORRIDOR SECTION



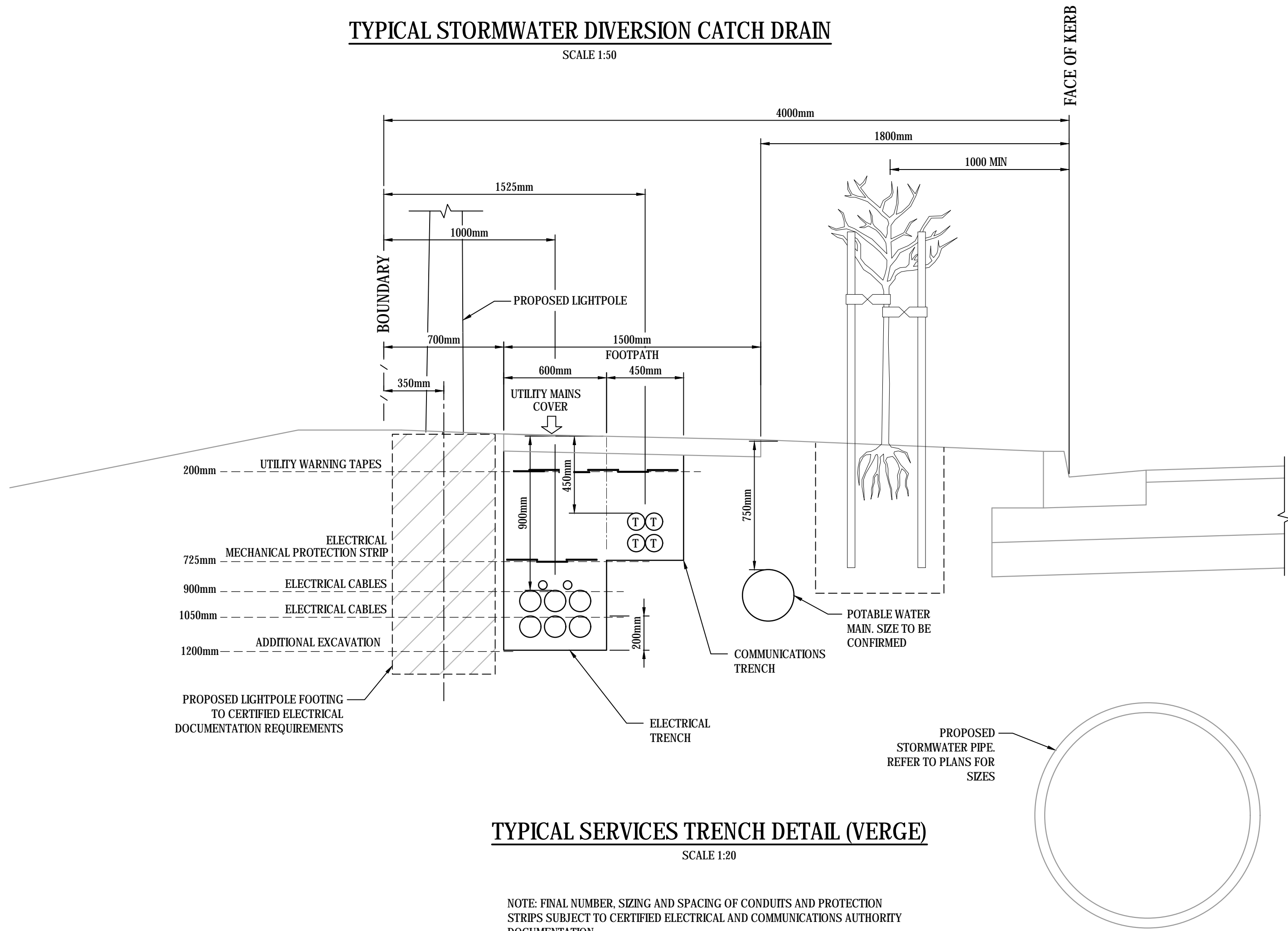
TYPICAL STORMWATER DIVERSION CATCH DRAIN

SCALE 1:50



TYPICAL SECTION - TEMPORARY TURNING HEAD

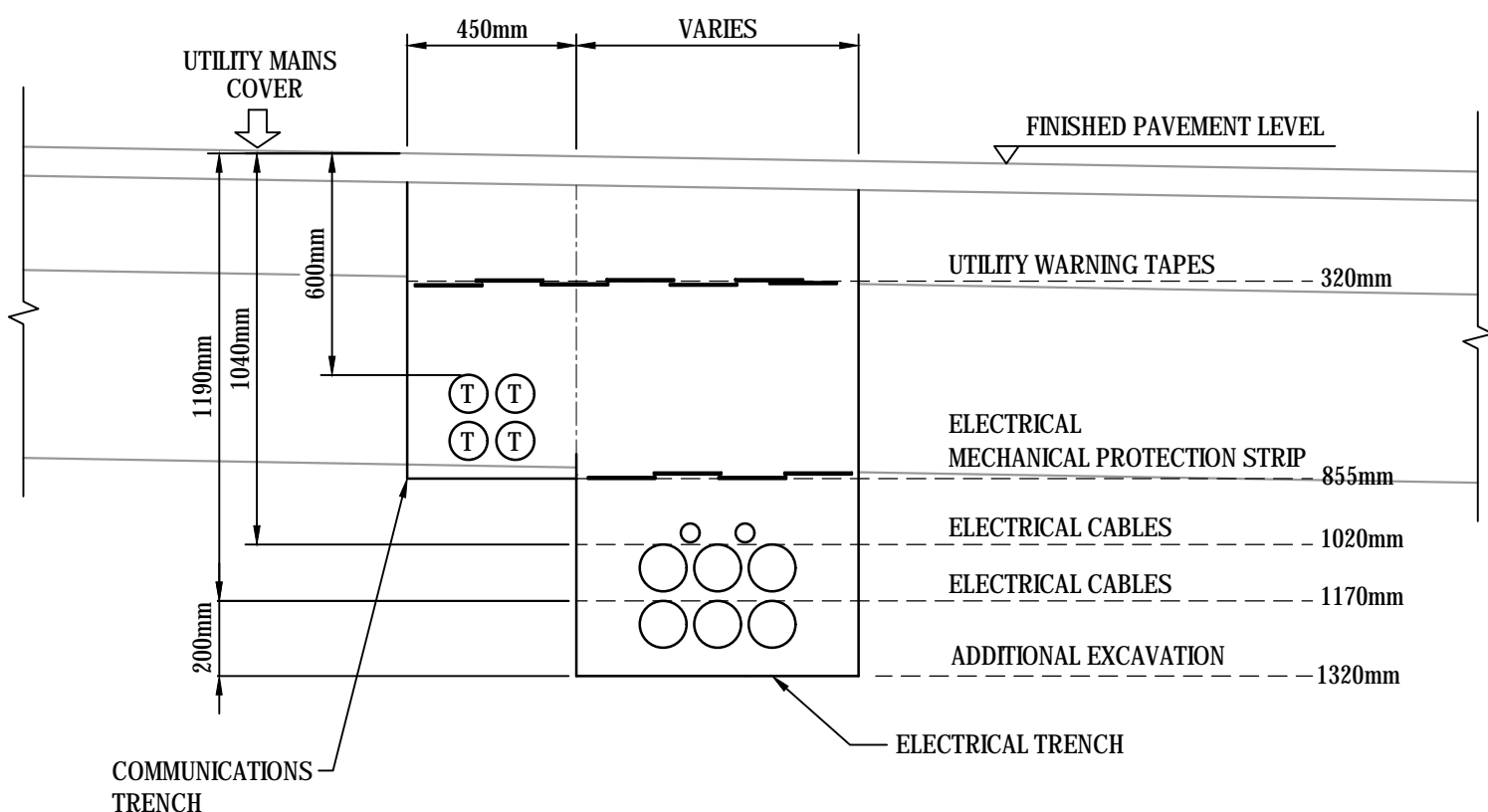
SCALE 1:50



TYPICAL SERVICES TRENCH DETAIL (VERGE)

SCALE 1:20

NOTE: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY DOCUMENTATION.



TYPICAL SERVICES TRENCH DETAIL (ROAD CROSSING)

SCALE 1:20

NOTE: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY DOCUMENTATION.

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date

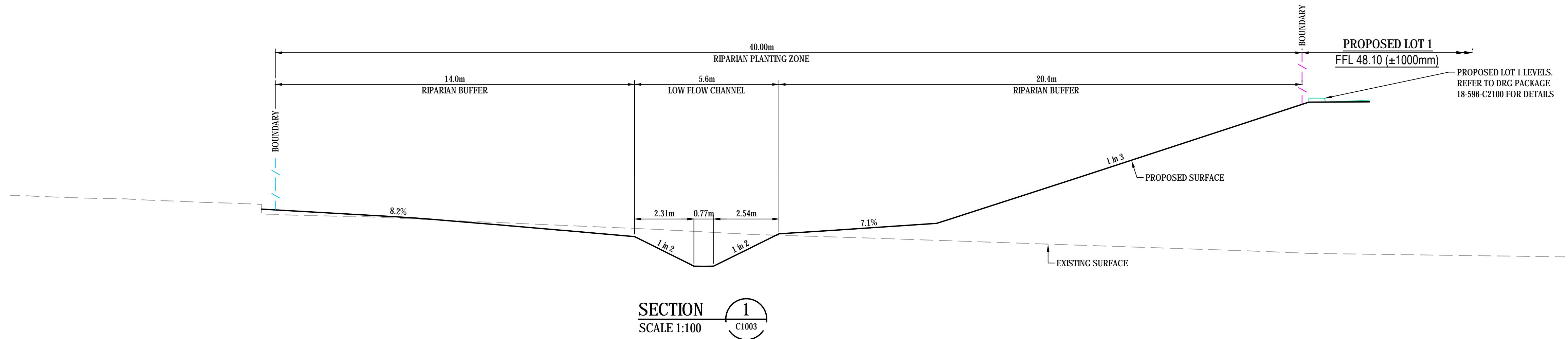
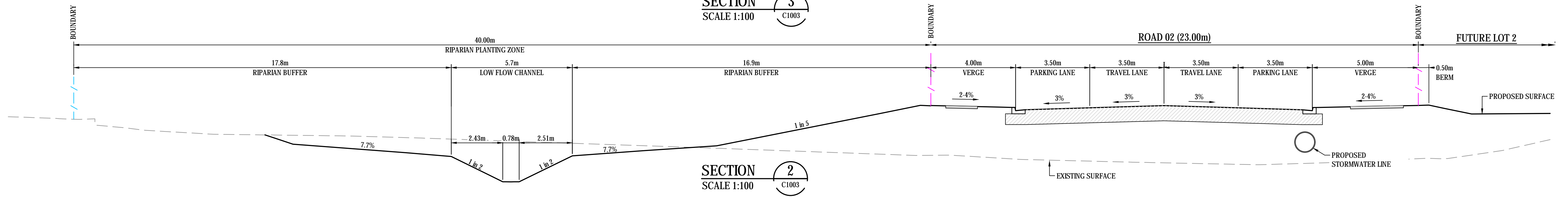
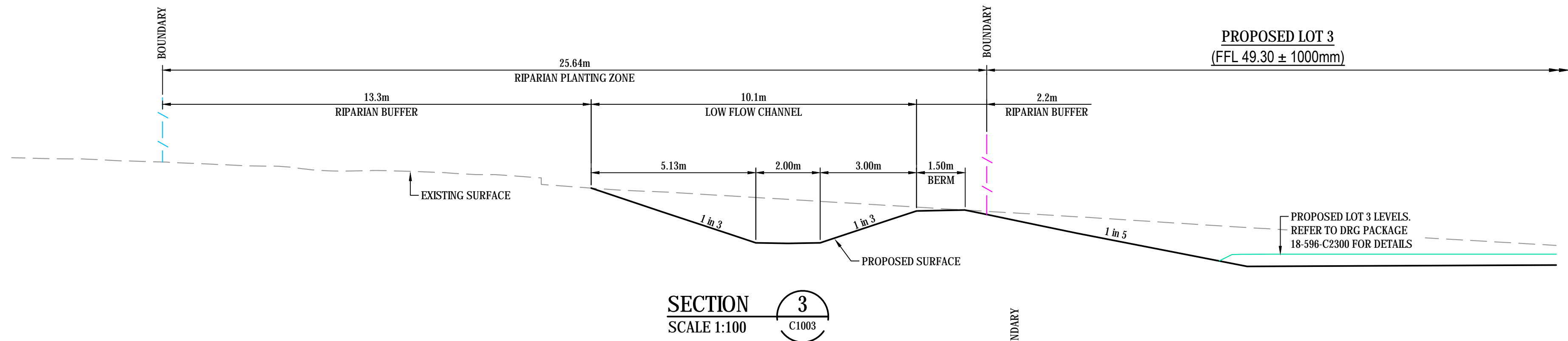
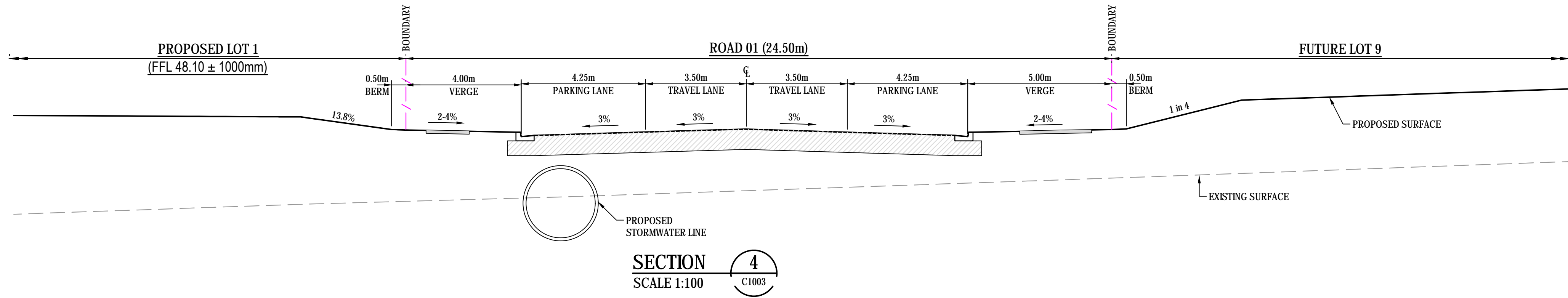
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1 : 100 @ A1 1 : 200 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

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Client

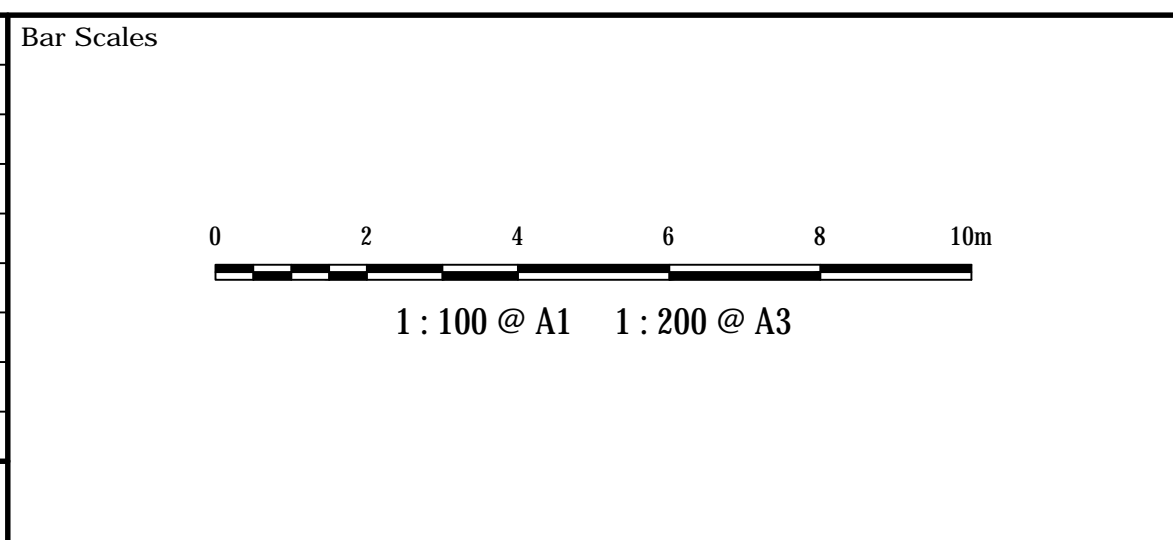
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		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	TYPICAL ROAD SECTIONS SHEET 2

Civil Engineers and Project Managers		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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1006	Issue C



C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



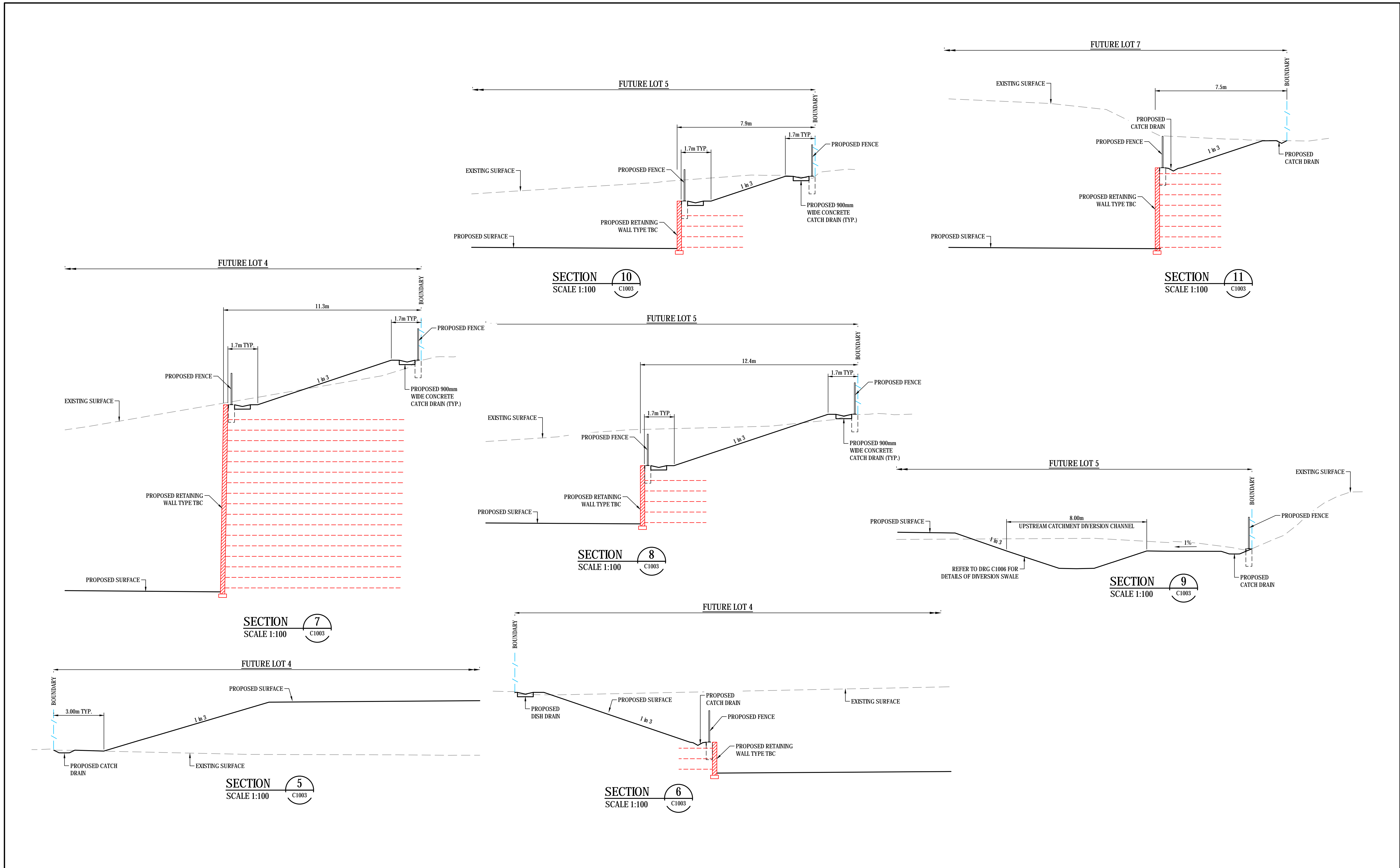
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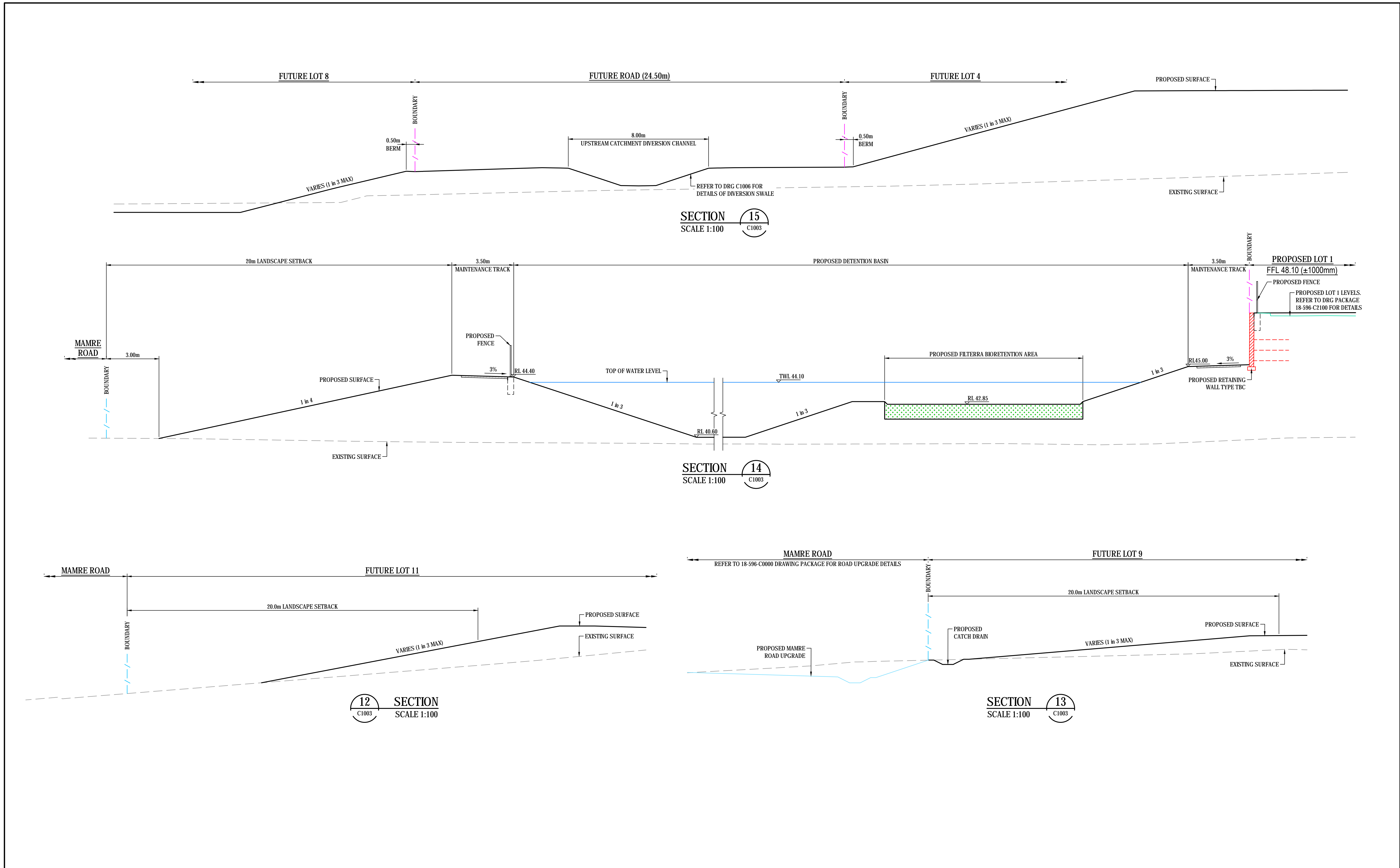
Scales	1:100	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	TYPICAL SECTIONS SHEET 1

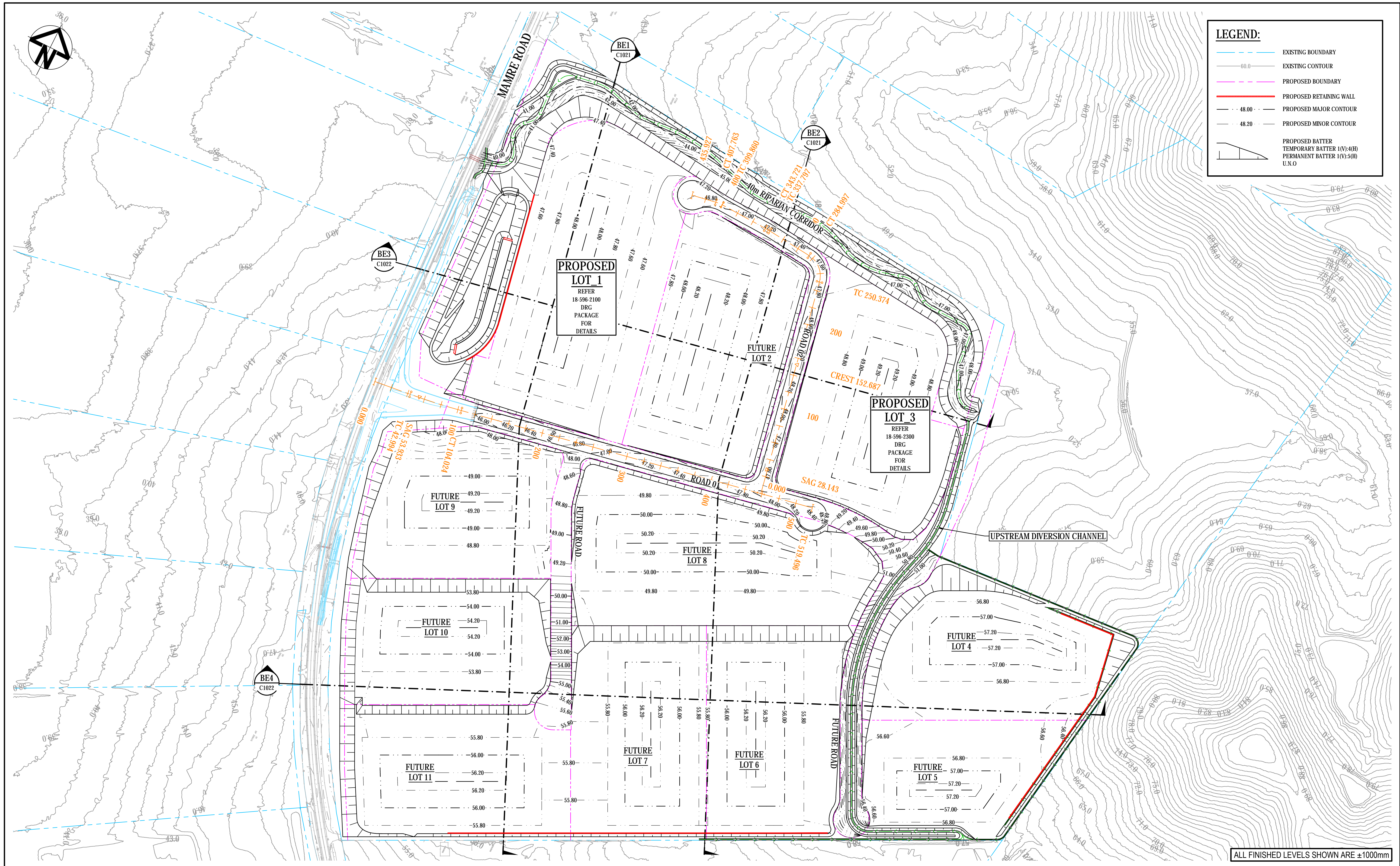
Civil Engineers and Project Managers	at&l	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1010	Issue C



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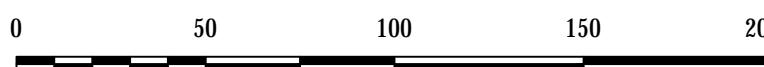


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ALL FINISHED LEVELS SHOWN ARE $\pm 1000\text{mm}$

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date


Bar Scales

1 : 2000 @ A1

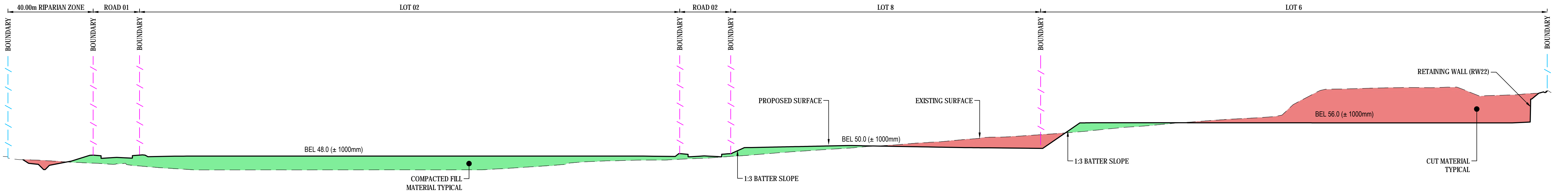
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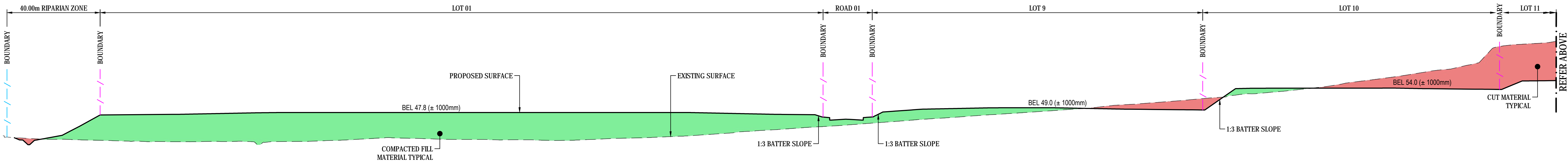
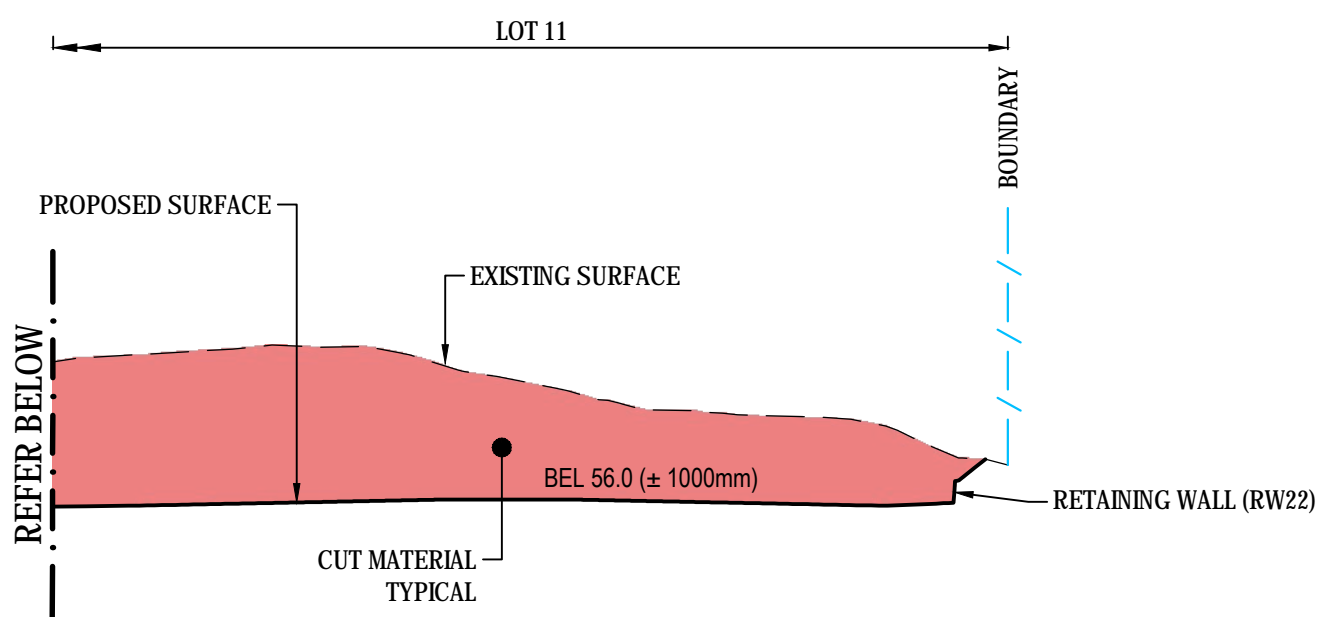
Scales	1:2000	Drawn	PDK
Grid	MGA	Designed	PDK
Height Datum	AHD	Checked	AT
		Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	BULK EARTHWORKS CONTOUR PLAN

Civil Engineers and Project Managers		
	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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1020	Issue C



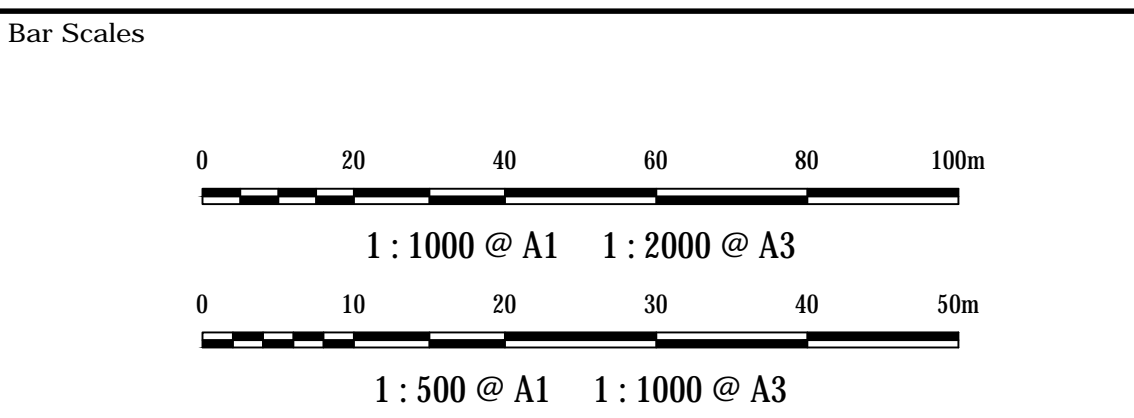
SECTION BE2
SCALE 1:1000(H)
1:500(V)
C1020



SECTION BE1
SCALE 1:1000(H)
1:500(V)
C1020

ALL FINISHED LEVELS SHOWN ARE ±1000mm

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date

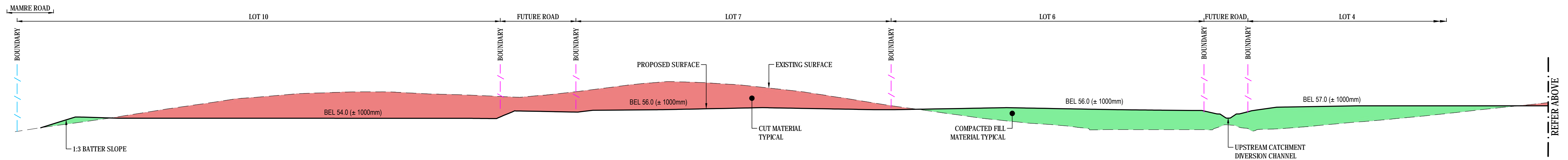
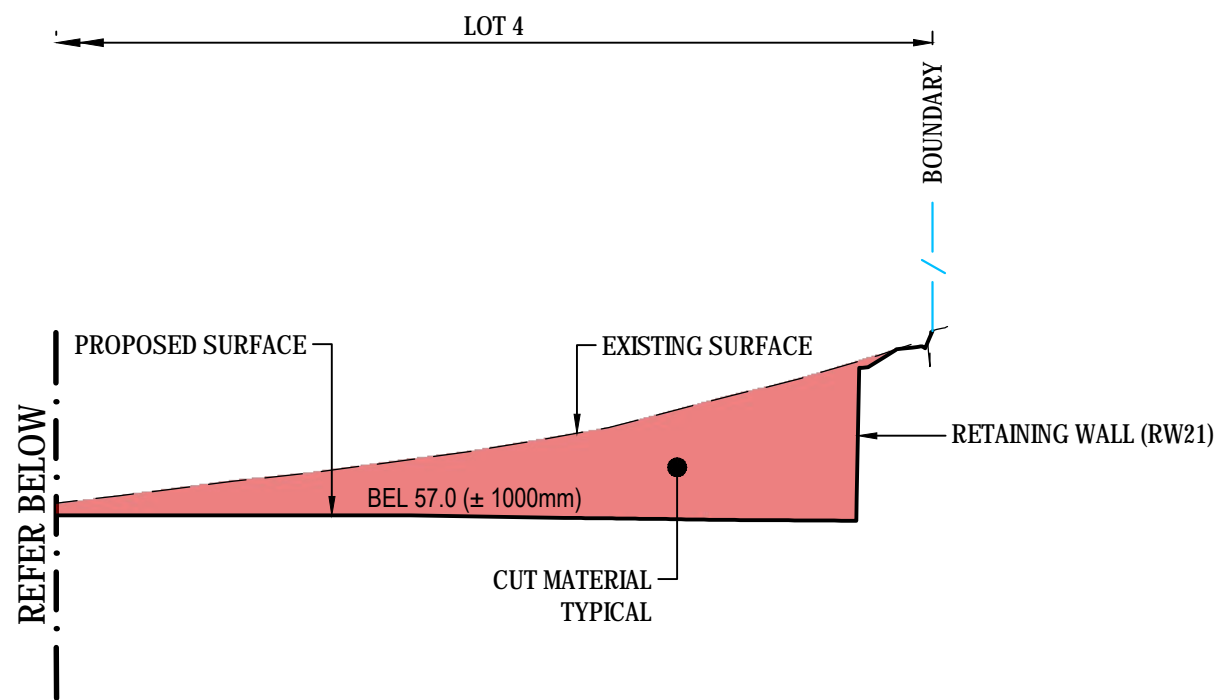


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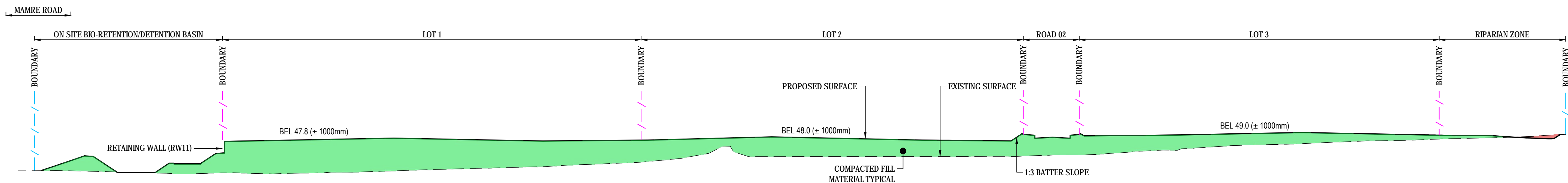


Scales 1:1000(H) 1:500(V)	Drawn	PDK
	Designed	PDK
	Checked	AT
Grid MGA	Approved	AM
Height Datum AHD		

Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1	Civil Engineers and Project Managers	
	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	
Title BULK EARTHWORKS SECTIONS SHEET 1	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
	Project - Drawing No. 18-596-C1021	Issue C



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



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

ALL FINISHED LEVELS SHOWN ARE ±1000mm

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date

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

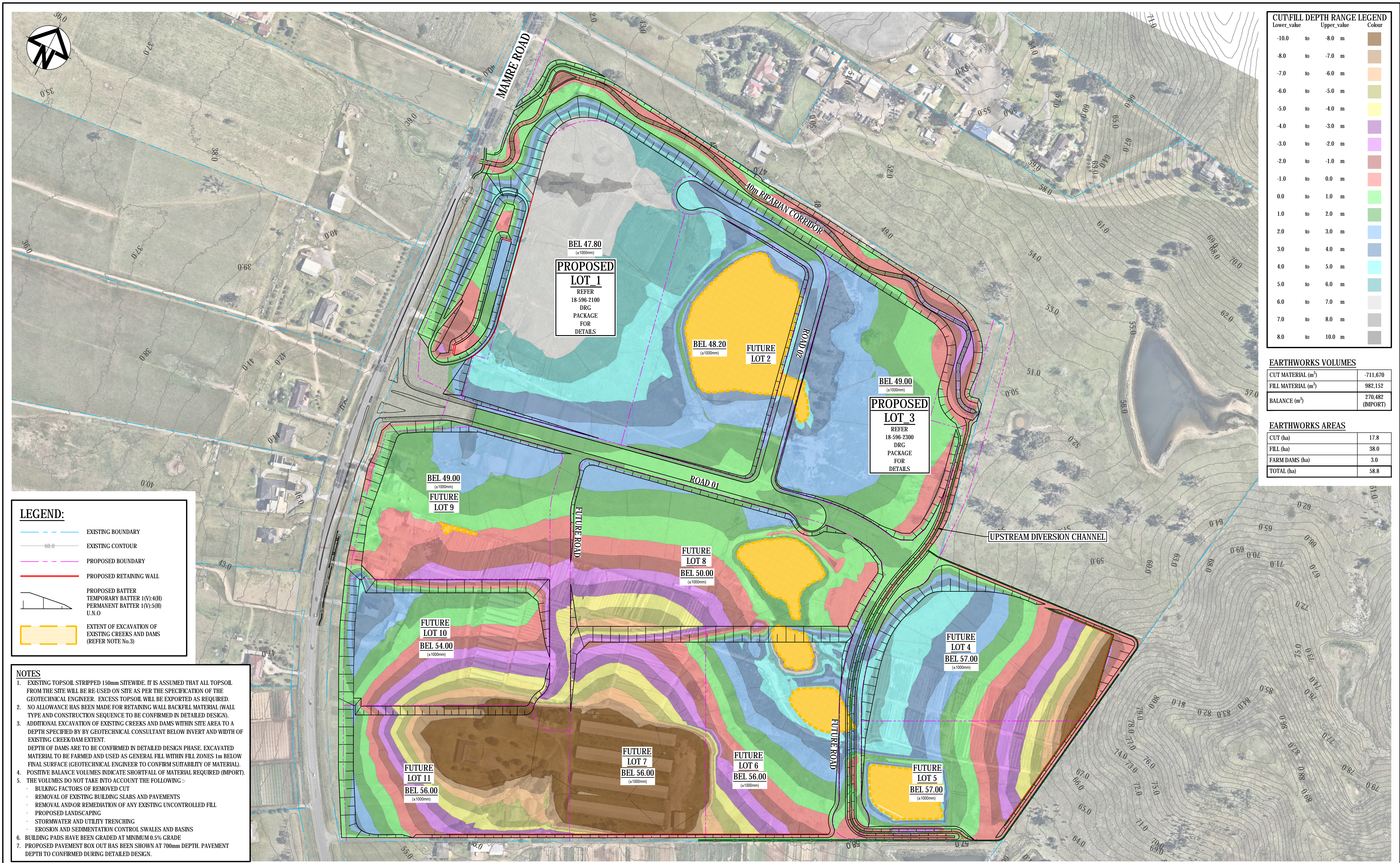
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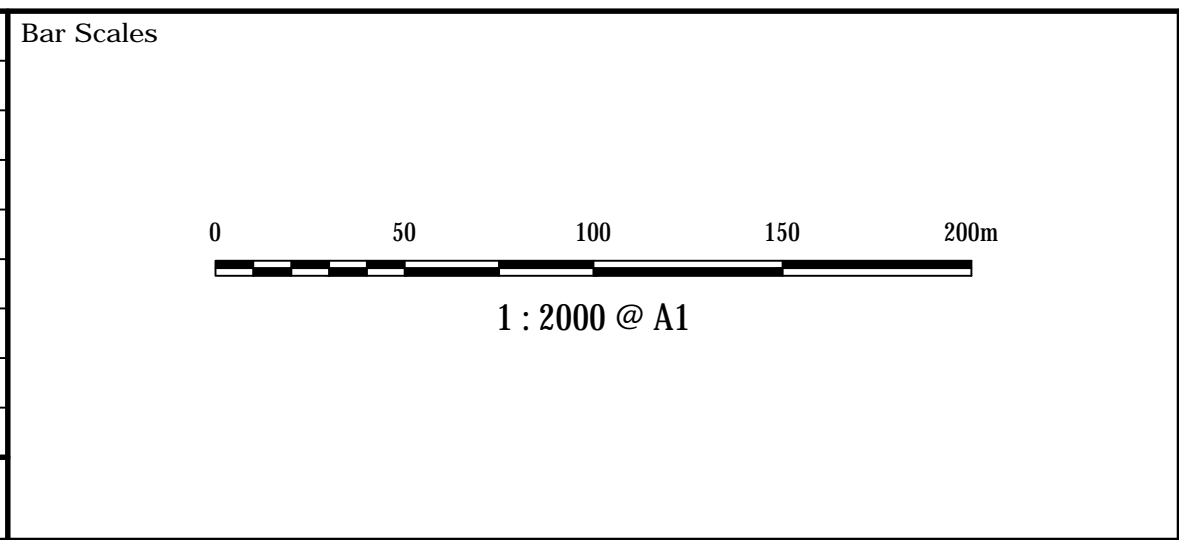
Scales 1:1000(H) 1:500(V)	Drawn	PDK
	Designed	PDK
	Checked	AT
Grid MGA	Approved	AM
Height Datum AHD		

Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title BULK EARTHWORKS SECTIONS SHEET 2

Civil Engineers and Project Managers		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
Project - Drawing No. 18-596-C1022	Issue C	



D	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
C	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	22-05-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date




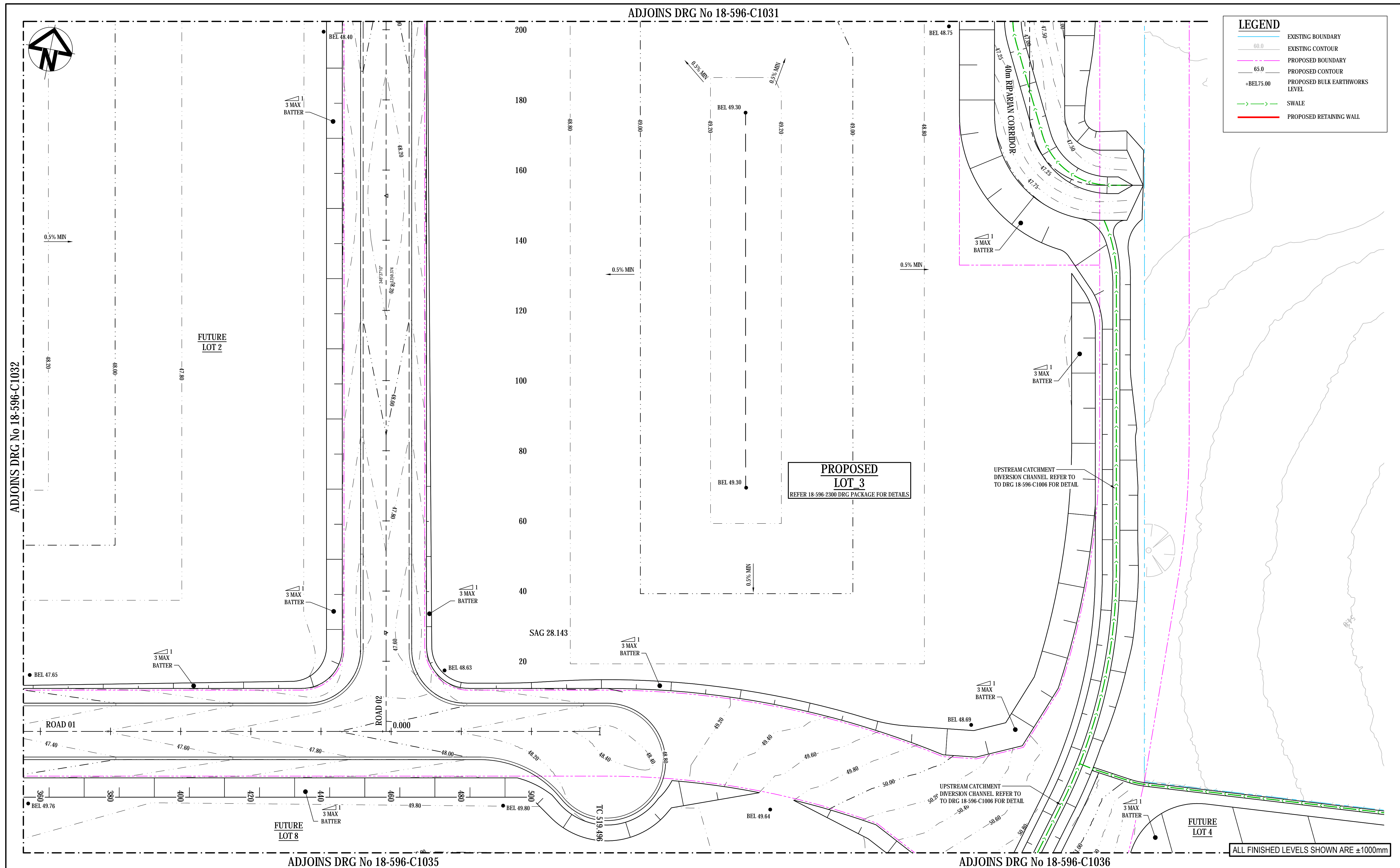
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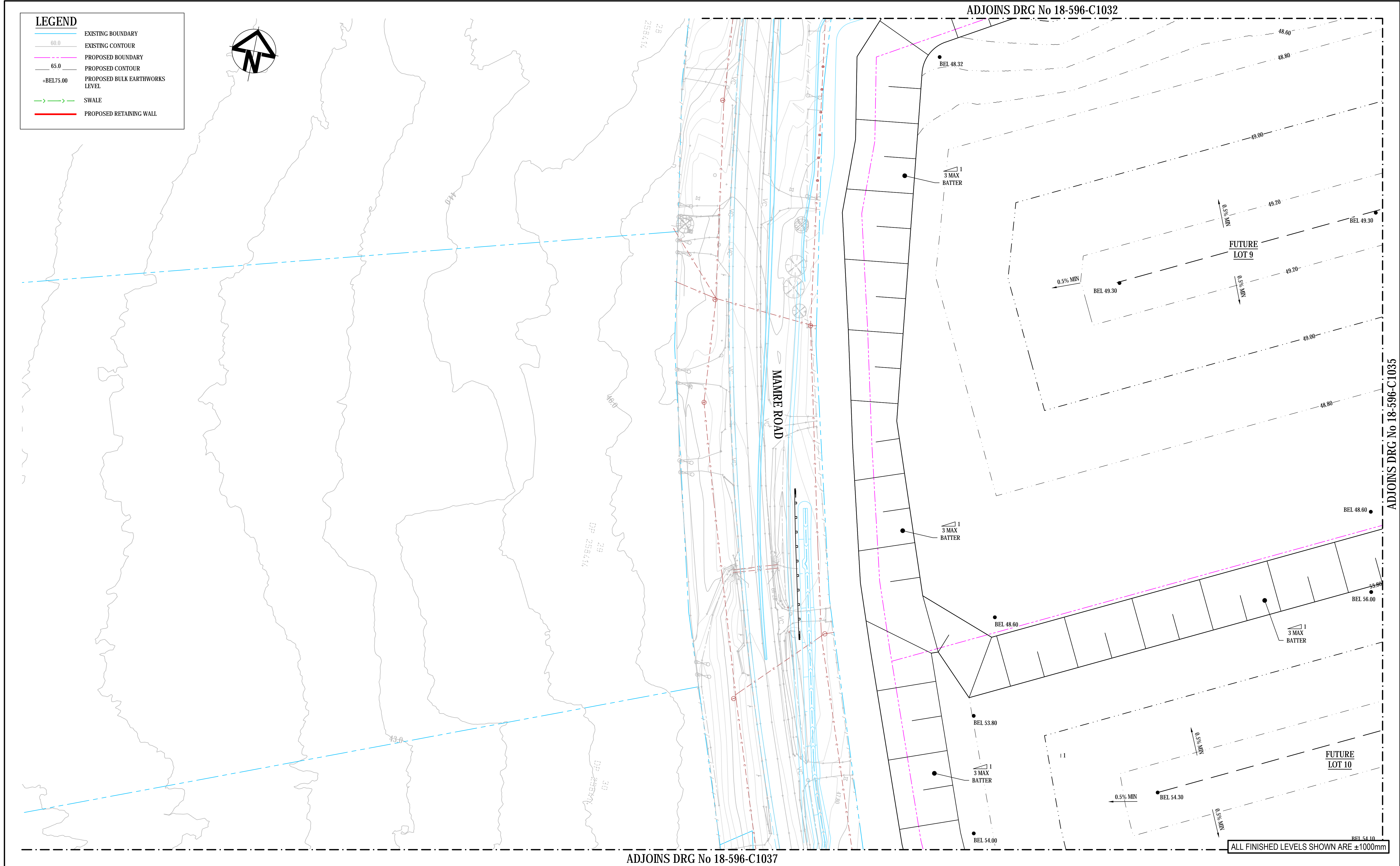
Scales	1:2000	Drawn	PDK
Grid	MGA	Designed	PDK
Height Datum	AHD	Checked	AT
		Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	BULK EARTHWORKS CUT/FILL PLAN

Civil Engineers and Project Managers		
	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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1025	Issue D



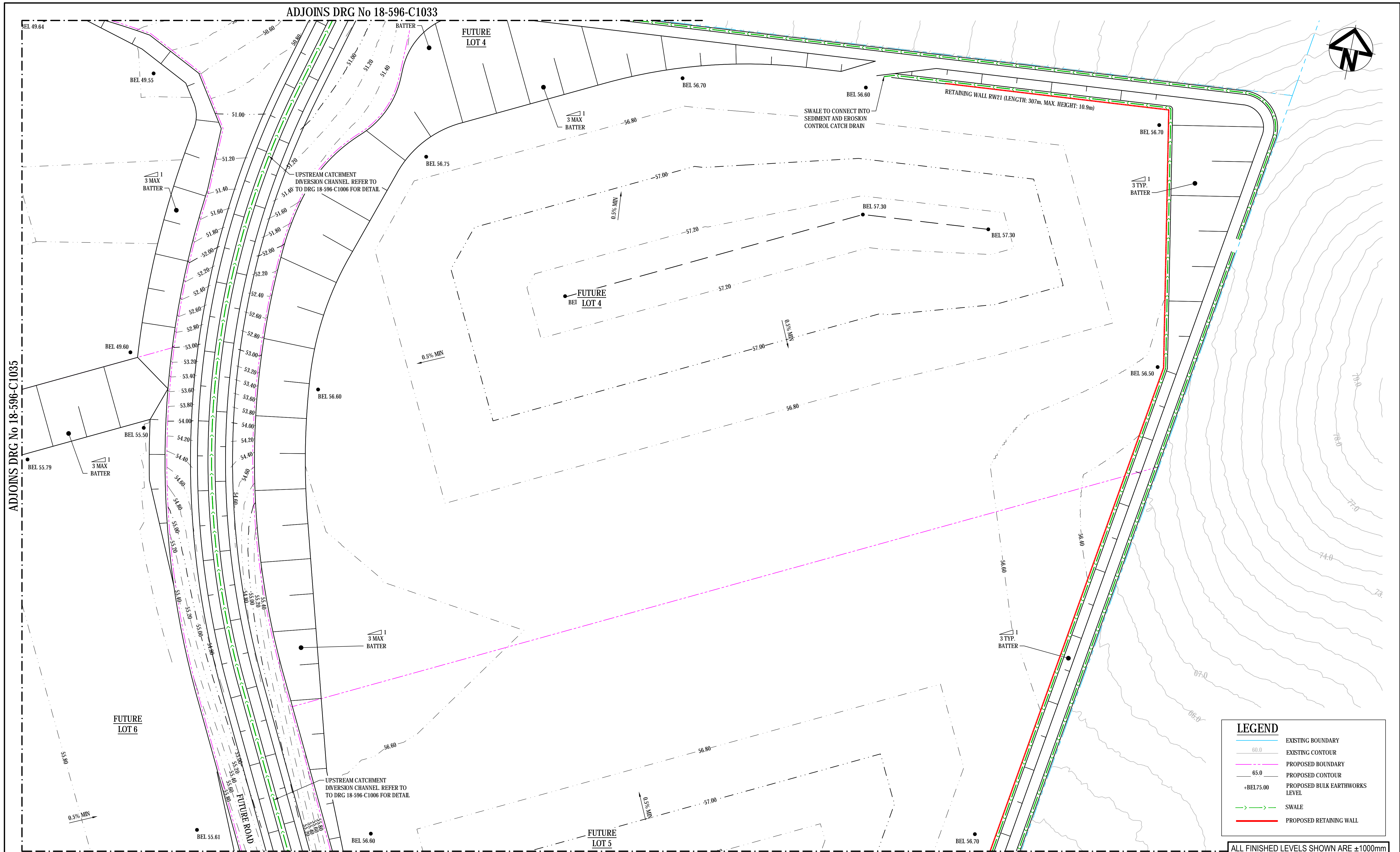
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		Bar Scales		Key Plan		Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
		0 10 20 30 40 50m						1:500		Designed		ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1		Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
		1 : 500 @ A1 1 : 1000 @ A3						Grid MGA		Checked		AT			
								Height Datum AHD		Approved		AM			
C ISSUED FOR DEVELOPMENT APPLICATION 15-10-20								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		BULK EARTHWORKS PLAN SHEET 5		Title		Status	
B ISSUED FOR DEVELOPMENT APPLICATION 12-10-20						18-596-C1034						FOR APPROVAL		A1	
A ISSUED FOR DEVELOPMENT APPLICATION 15-05-20						18-596-C1034						NOT TO BE USED FOR CONSTRUCTION		Issue	
Issue Description Date												Project - Drawing No.		C	

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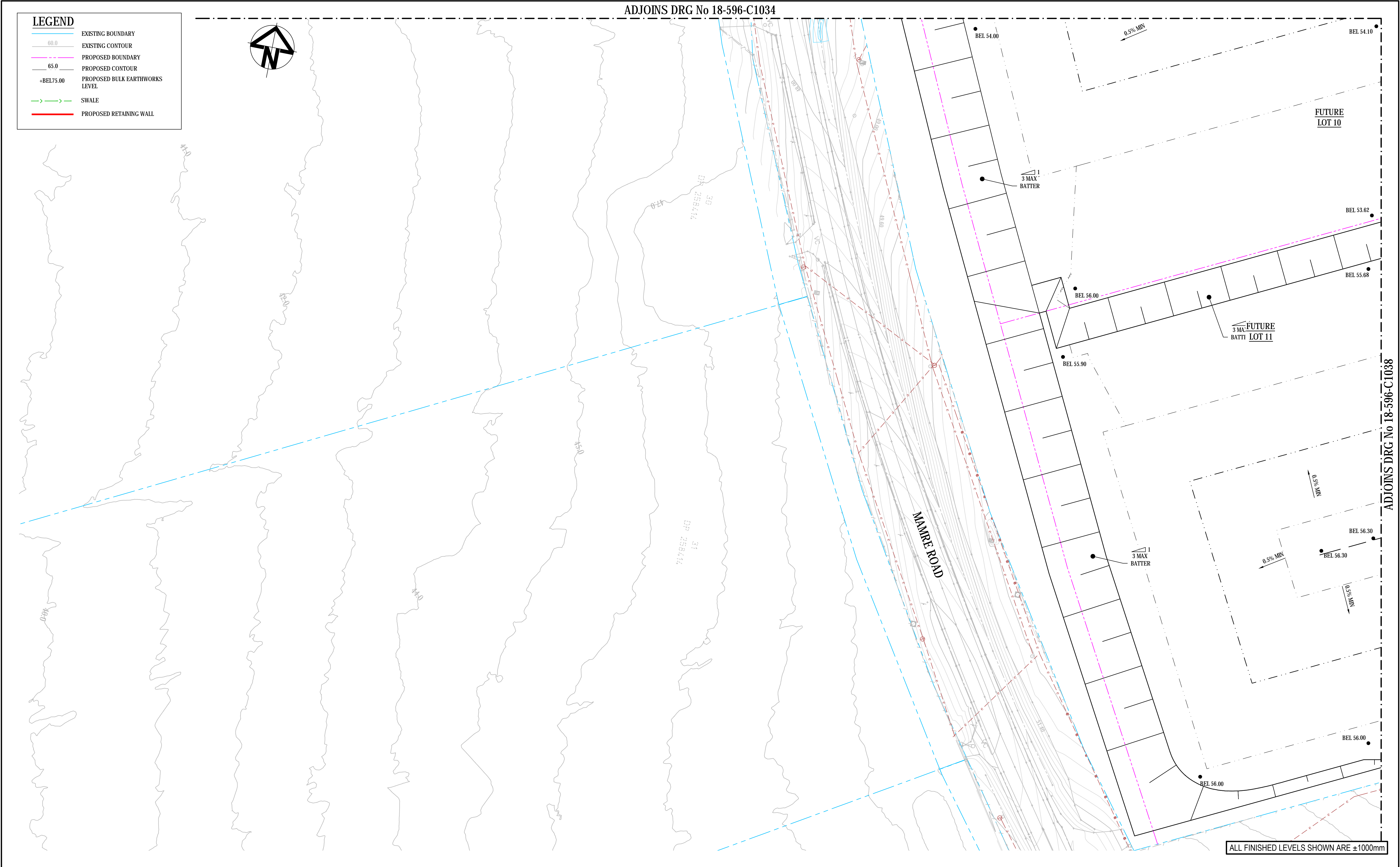
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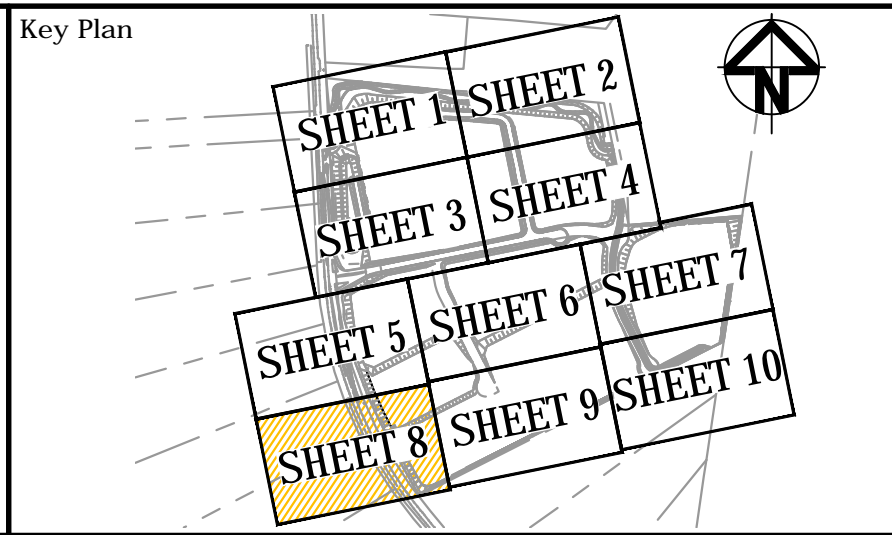
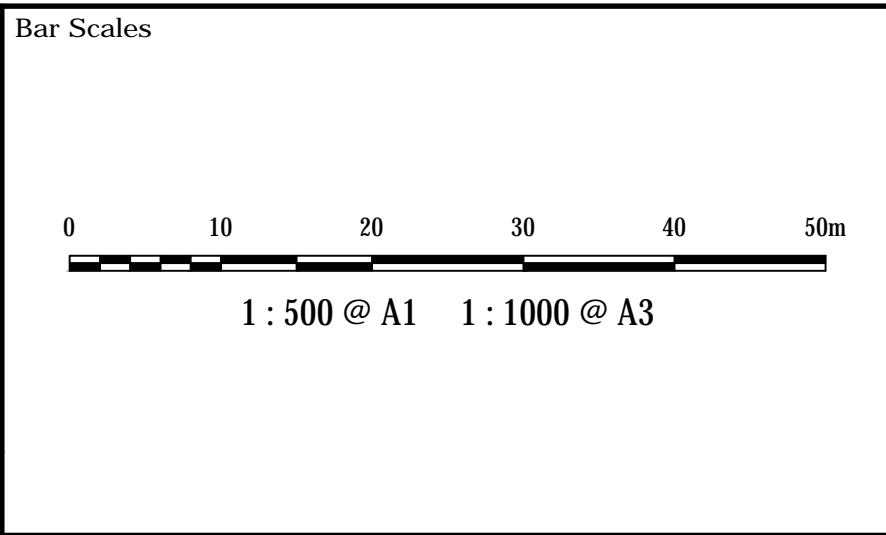
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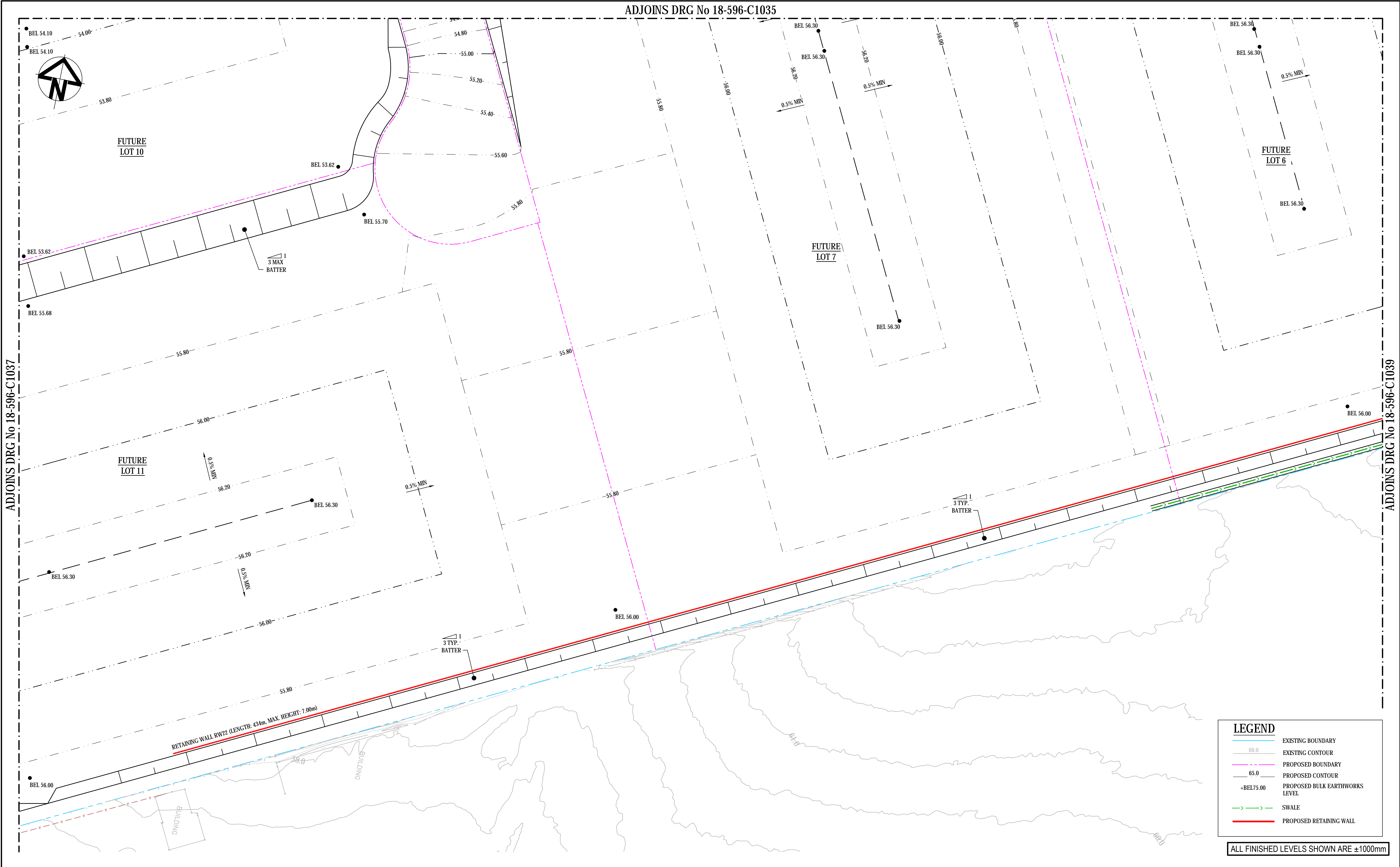
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Issue	Description	Date



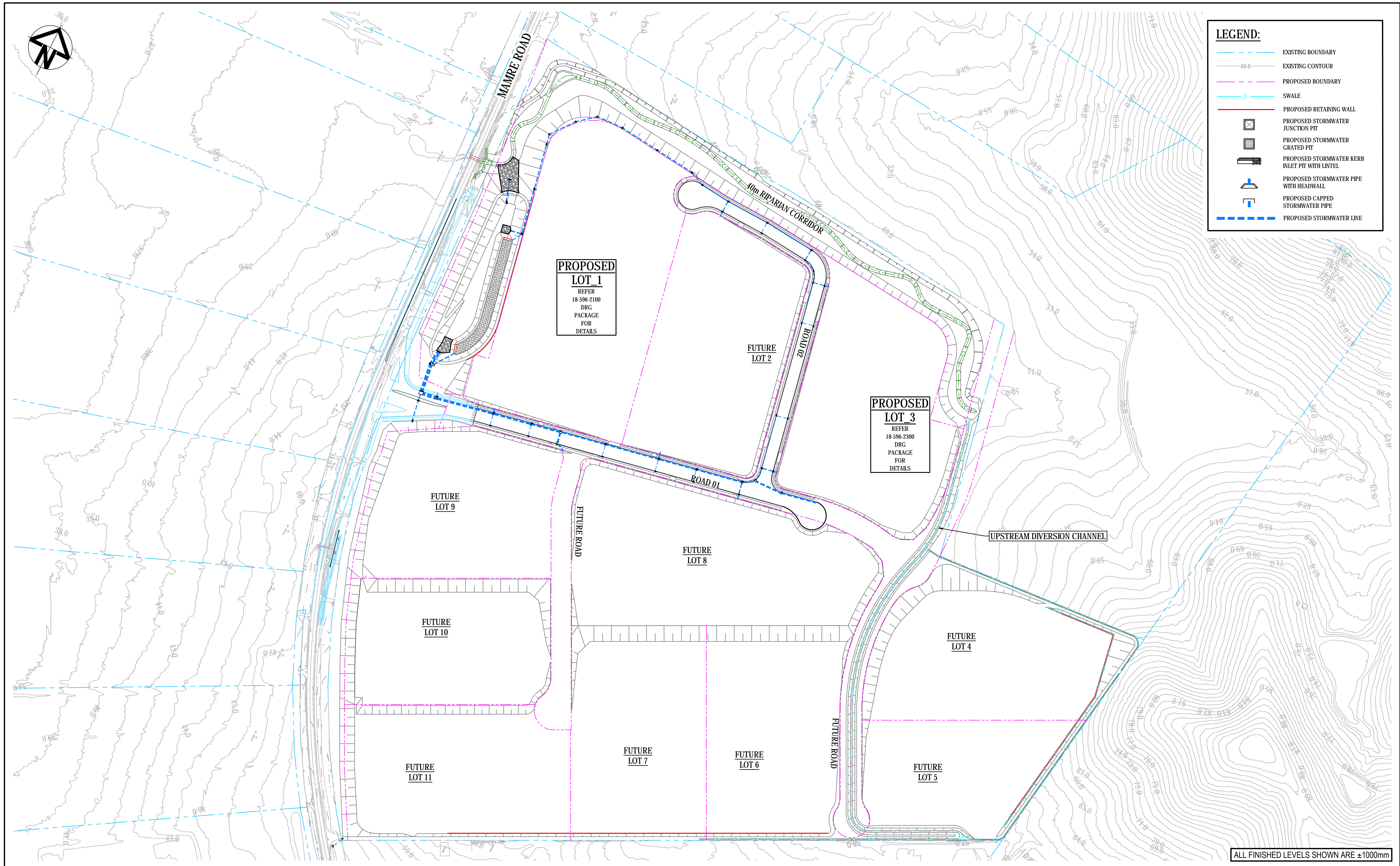
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	BULK EARTHWORKS PLAN SHEET 8

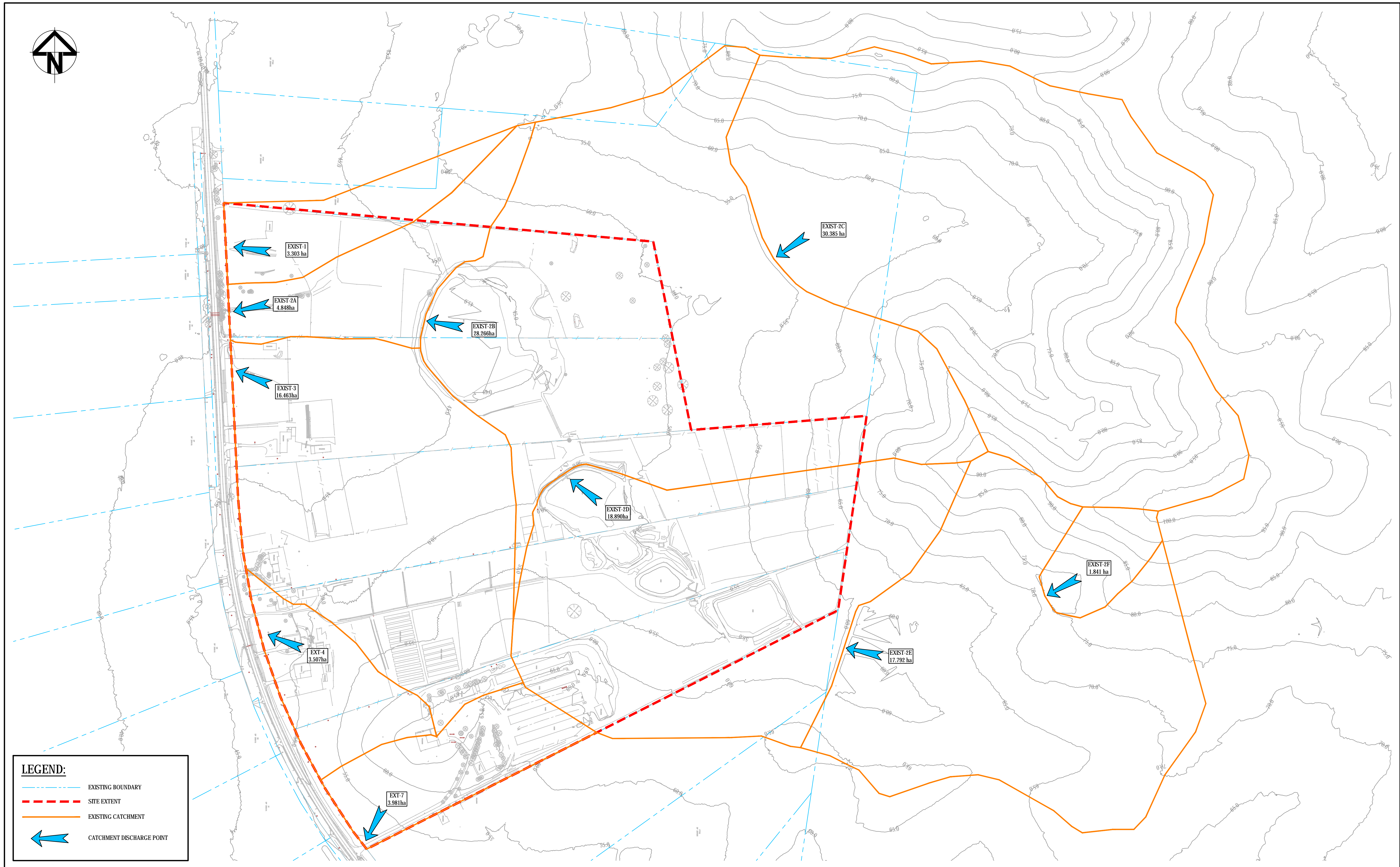
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at&i		
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1037	Issue
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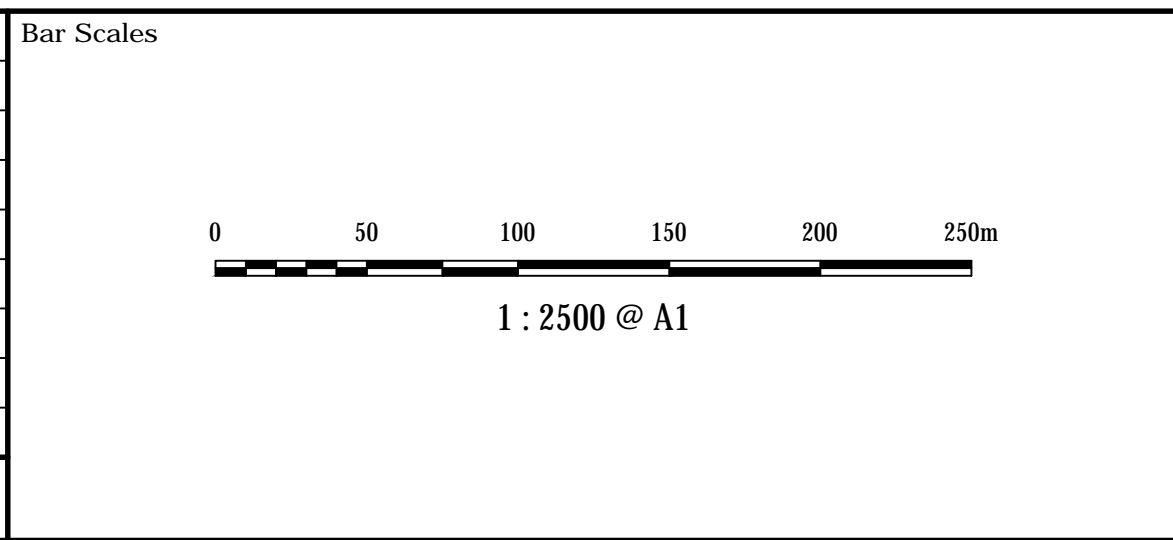
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B ISSUED FOR DEVELOPMENT APPLICATION 15-05-20								MGA		Checked AT		BULK EARTHWORKS PLAN SHEET 9		Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Issue Description Date								AHD		Approved AM		Title		Status	
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									1:2000			Designed	PDK	<div><p>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</p></div>	<p>Status</p> <p>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</p>	<p>A1</p>						
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B	ISSUED FOR DEVELOPMENT APPLICATION		12-10-20																			
A	ISSUED FOR DEVELOPMENT APPLICATION		15-05-20																			
Issue	Description		Date																			
															Title		STORMWATER DRAINAGE OVERALL PLAN		Project - Drawing No. 18-596-C1040		Issue C	



C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
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Issue	Description	Date



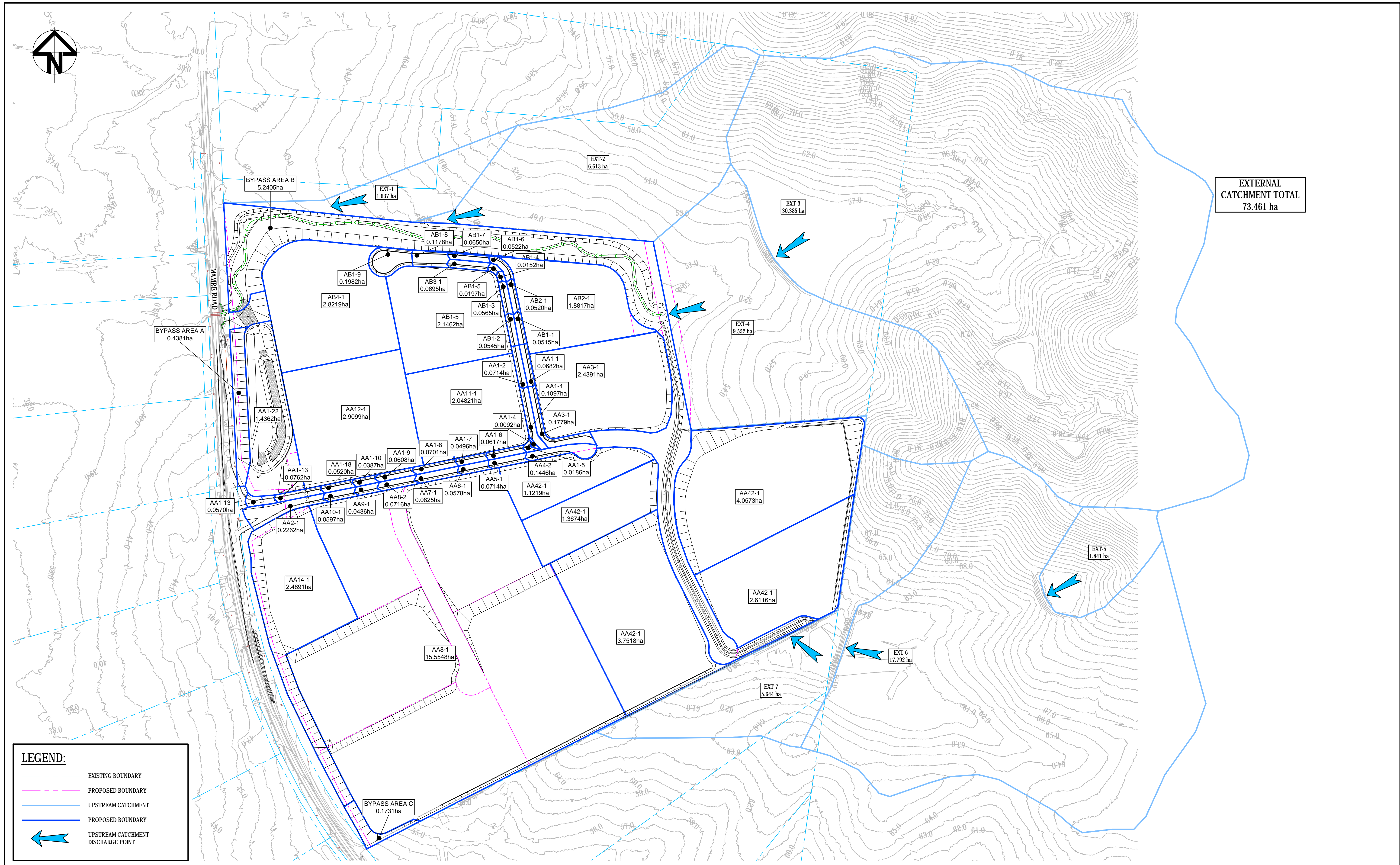
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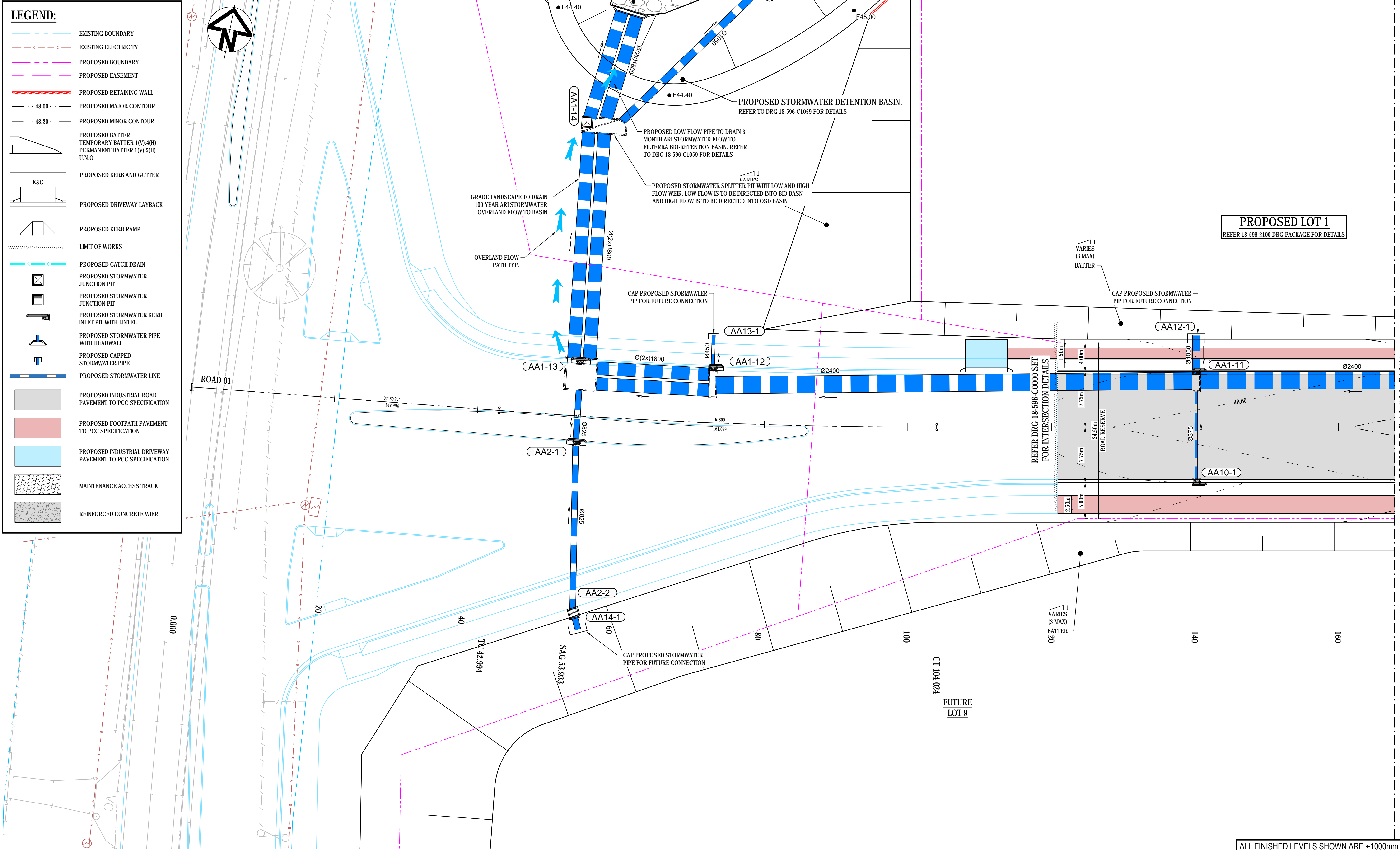
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Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)

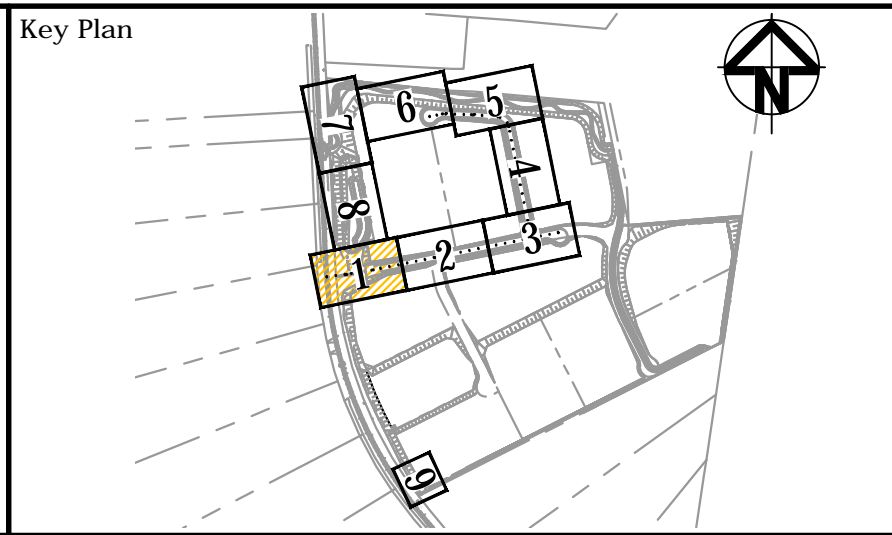
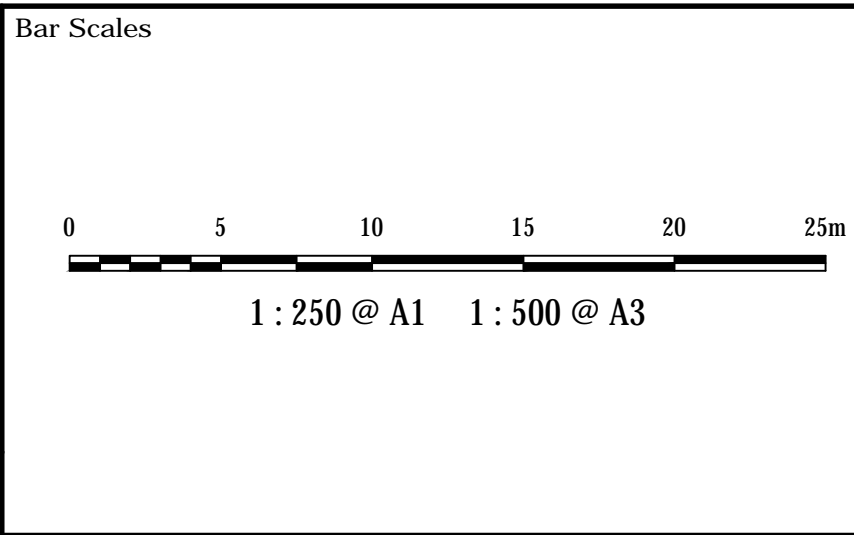
Civil Engineers and Project Managers		
at&l		
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1045	Issue C



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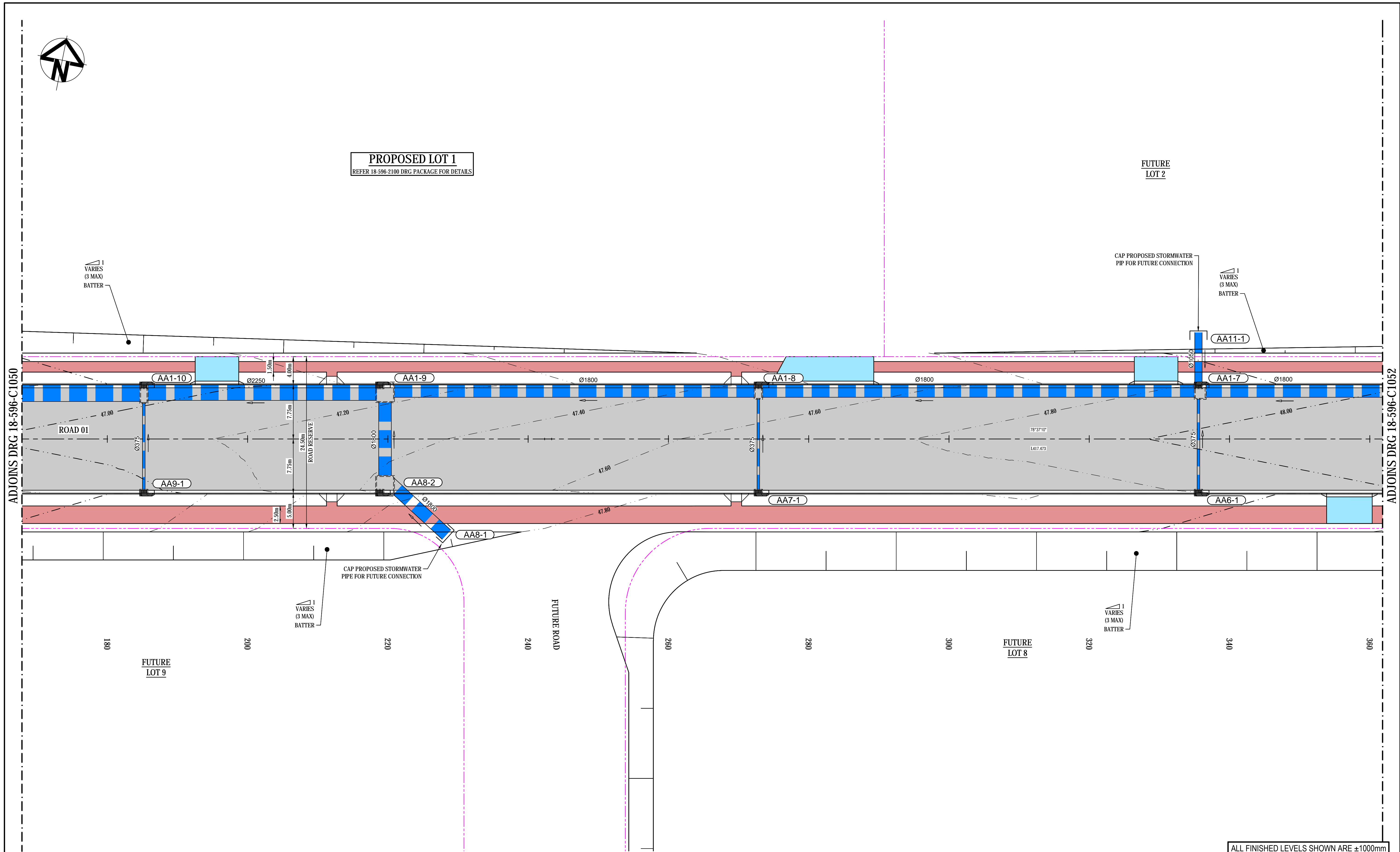
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:250	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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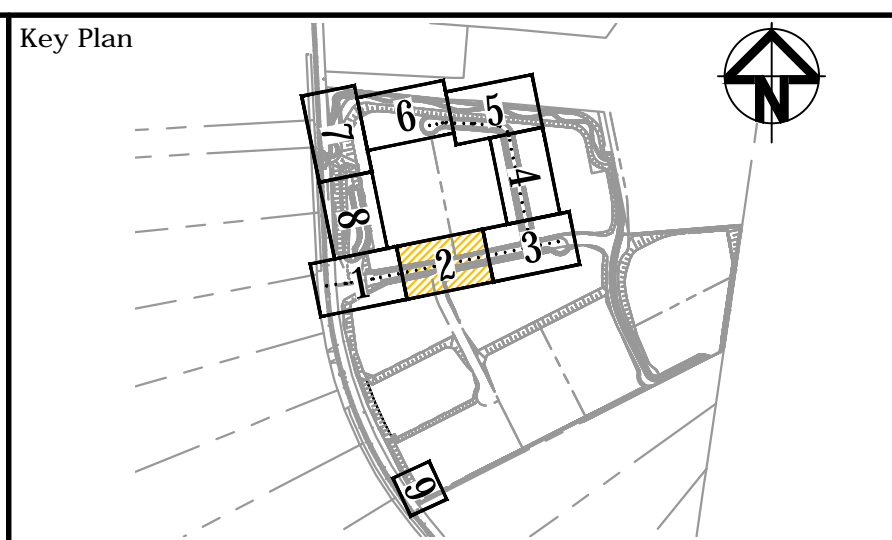
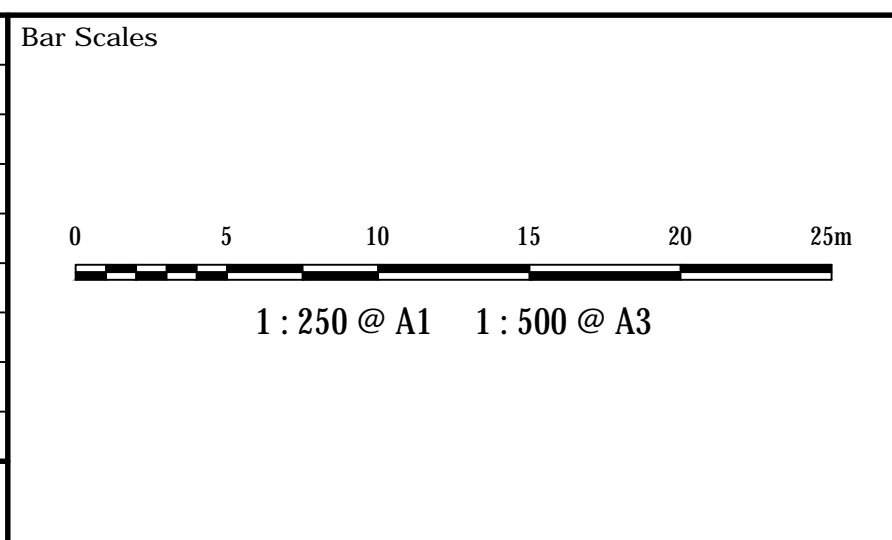
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	ROADWORKS AND STORMWATER DRAINAGE SHEET 1

Civil Engineers and Project Managers		
at&i		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1050	Issue C



ALL FINISHED LEVELS SHOWN ARE ±1000mm

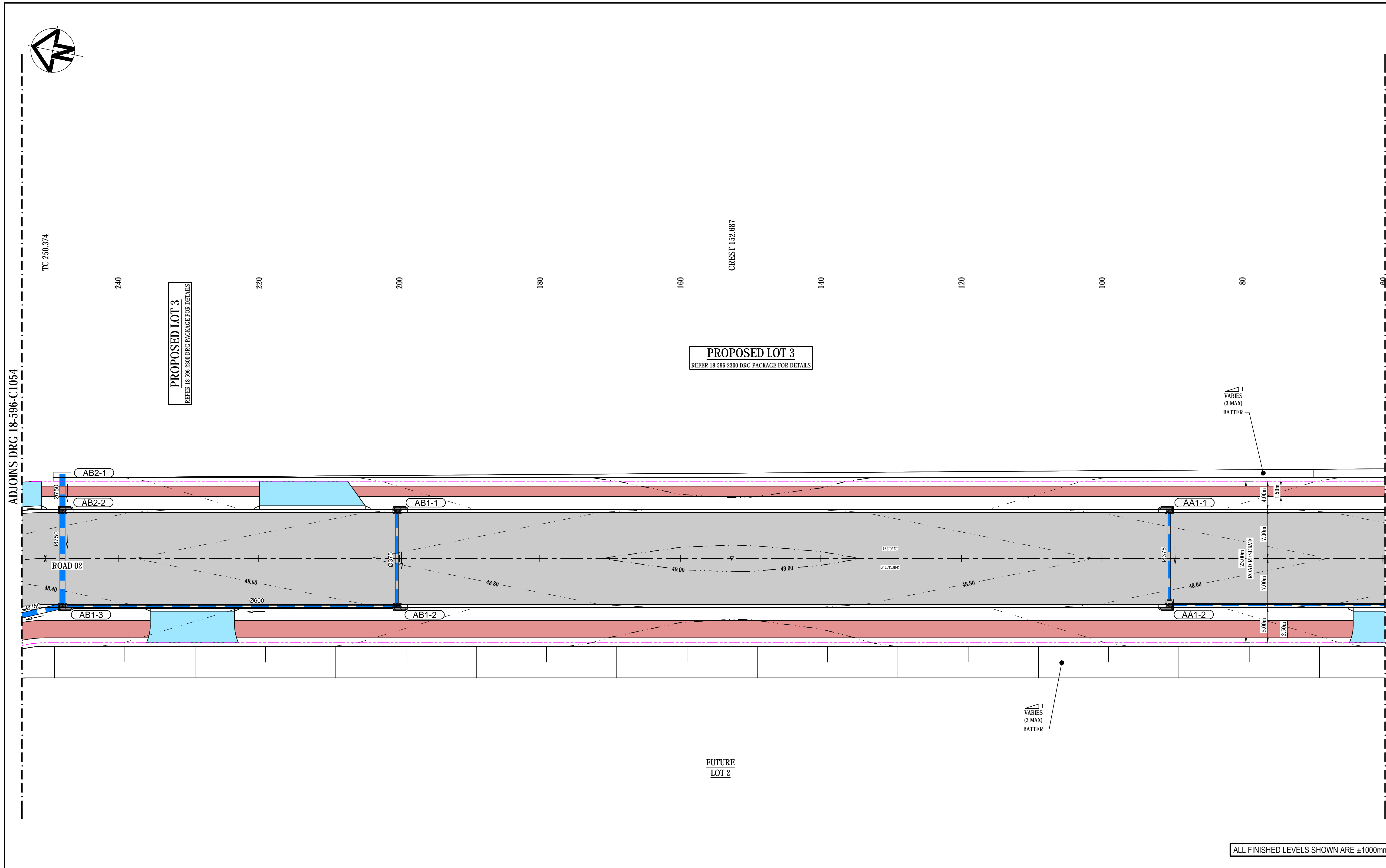
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



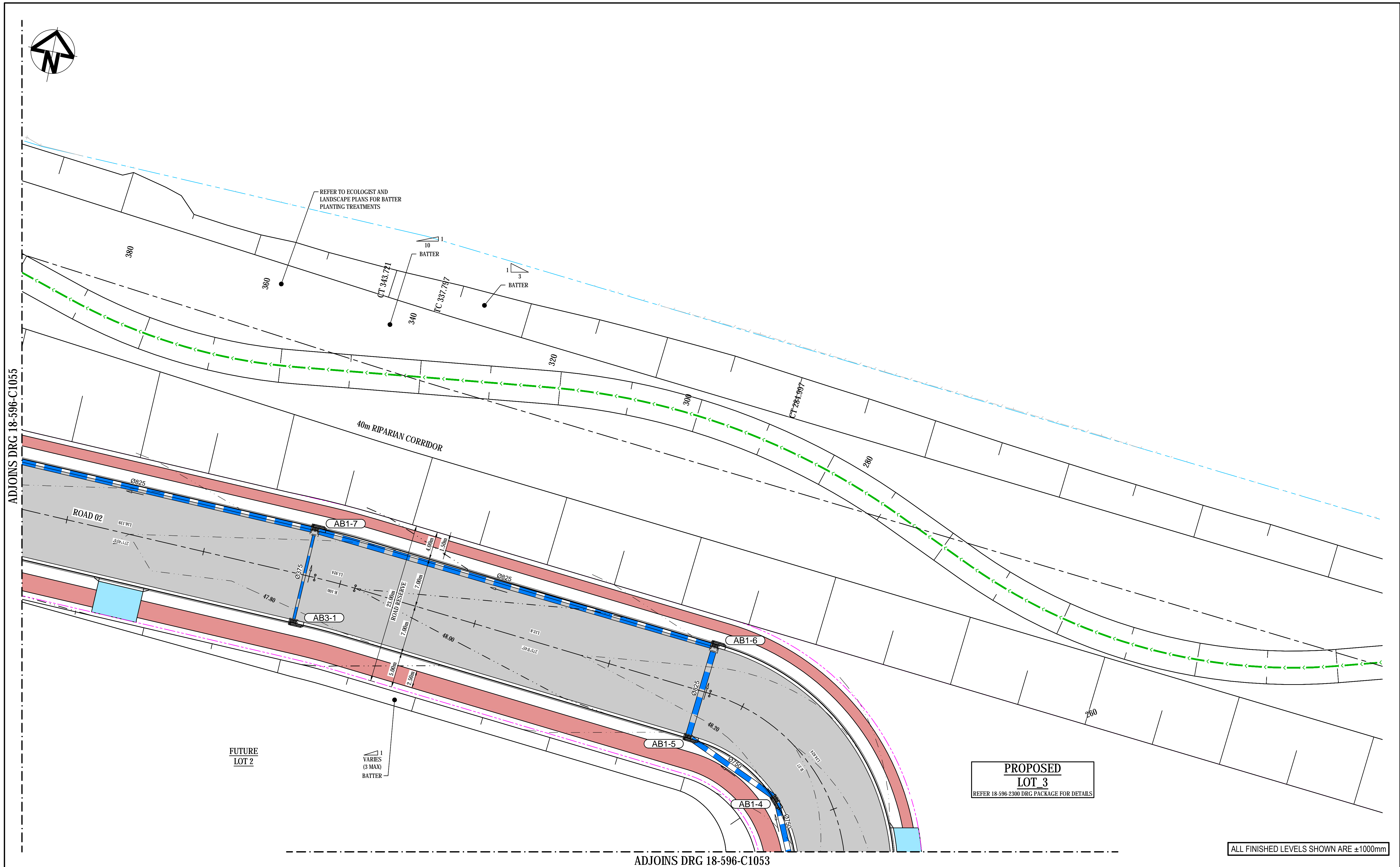
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Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	ROADWORKS AND STORMWATER DRAINAGE SHEET 2

Civil Engineers and Project Managers		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1051	Issue C

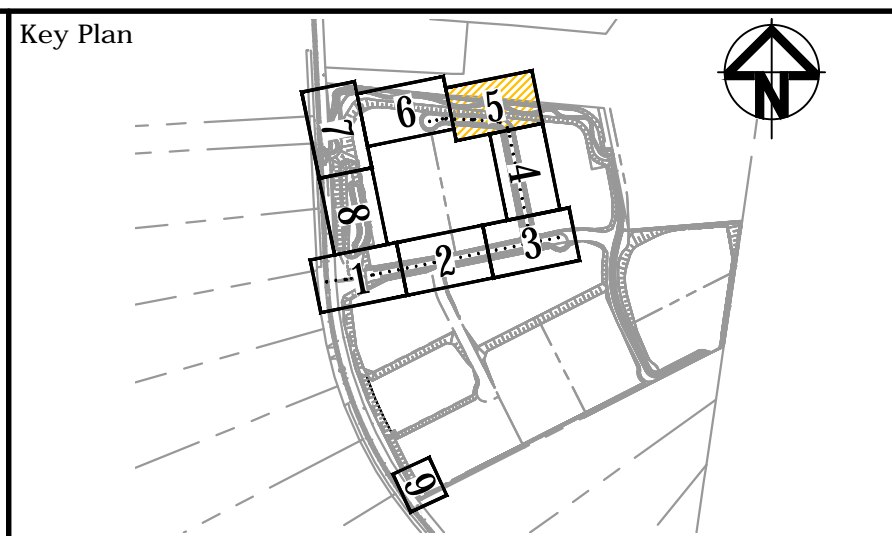
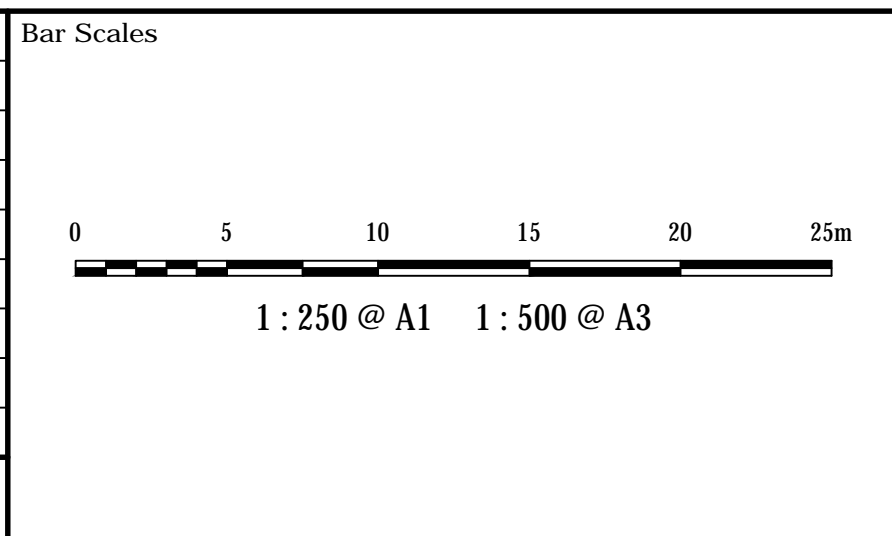


			Bar Scales	Key Plan	Client	Scales 1:250	Drawn Designed	PDK PDK	Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1	Civil Engineers and Project Managers at&l Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
						Grid MGA	Checked	AT	Title ROADWORKS AND STORMWATER DRAINAGE SHEET 4	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
						Height Datum AHD	Approved	AM	Project - Drawing No. 18-596-C1053	A Iss
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20				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				
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20								
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20								
Issue	Description	Date								



ALL FINISHED LEVELS SHOWN ARE $\pm 1000\text{mm}$

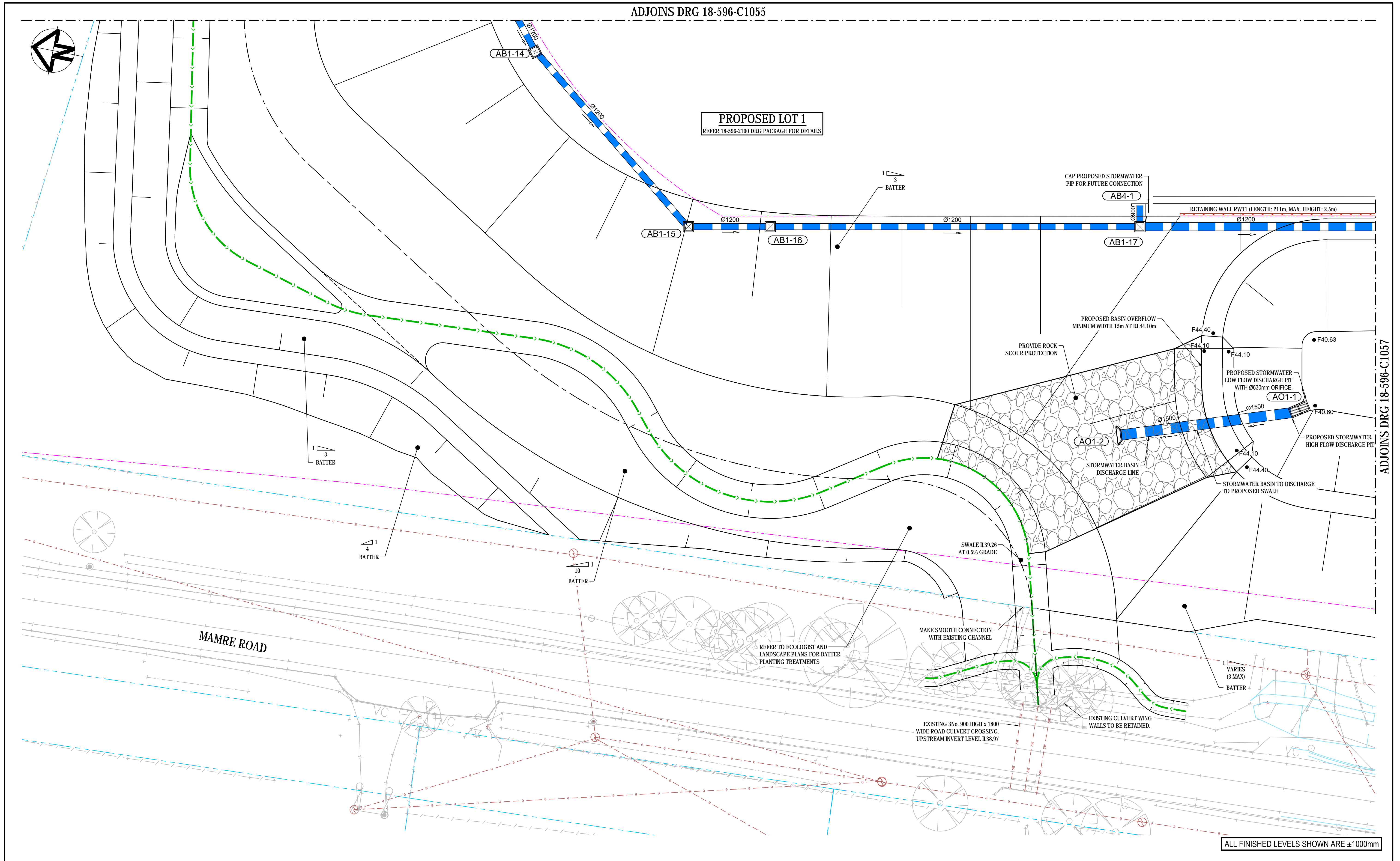
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B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:250	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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			

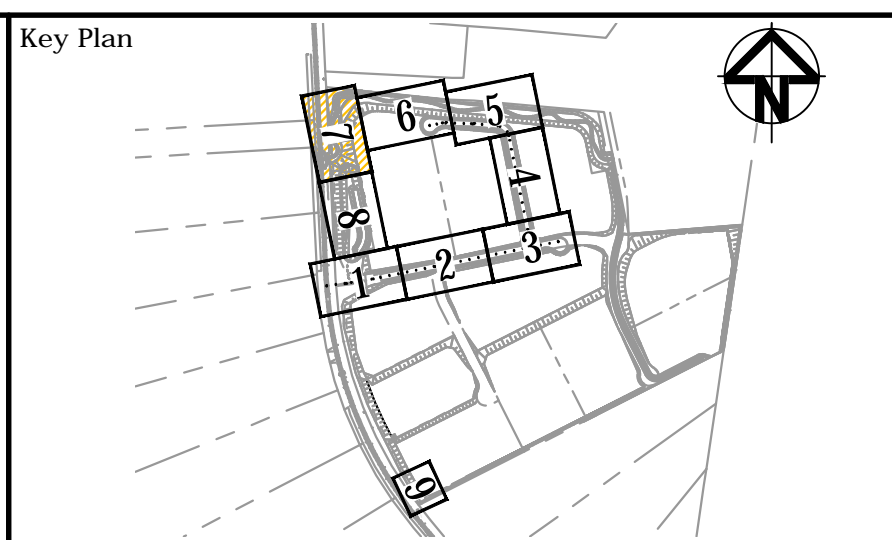
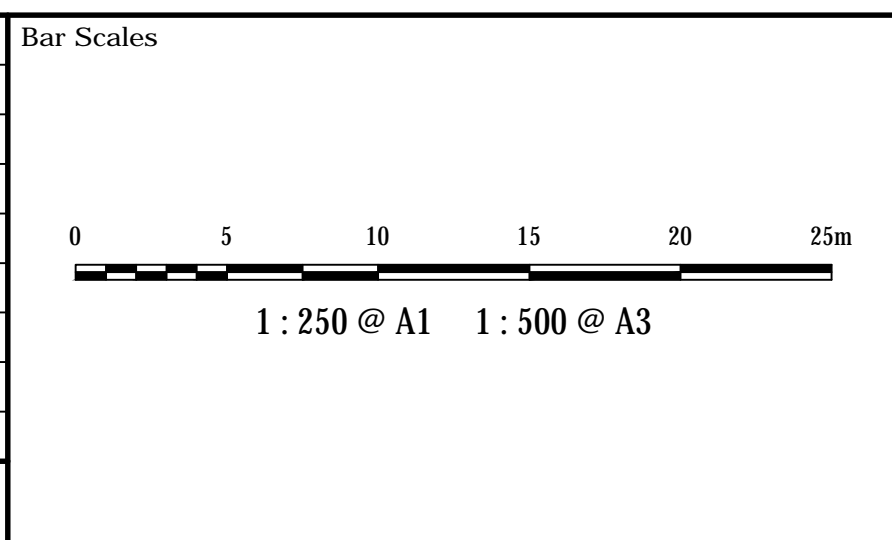
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	ROADWORKS AND STORMWATER DRAINAGE SHEET 5

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1054	Issue C



ALL FINISHED LEVELS SHOWN ARE ±1000mm

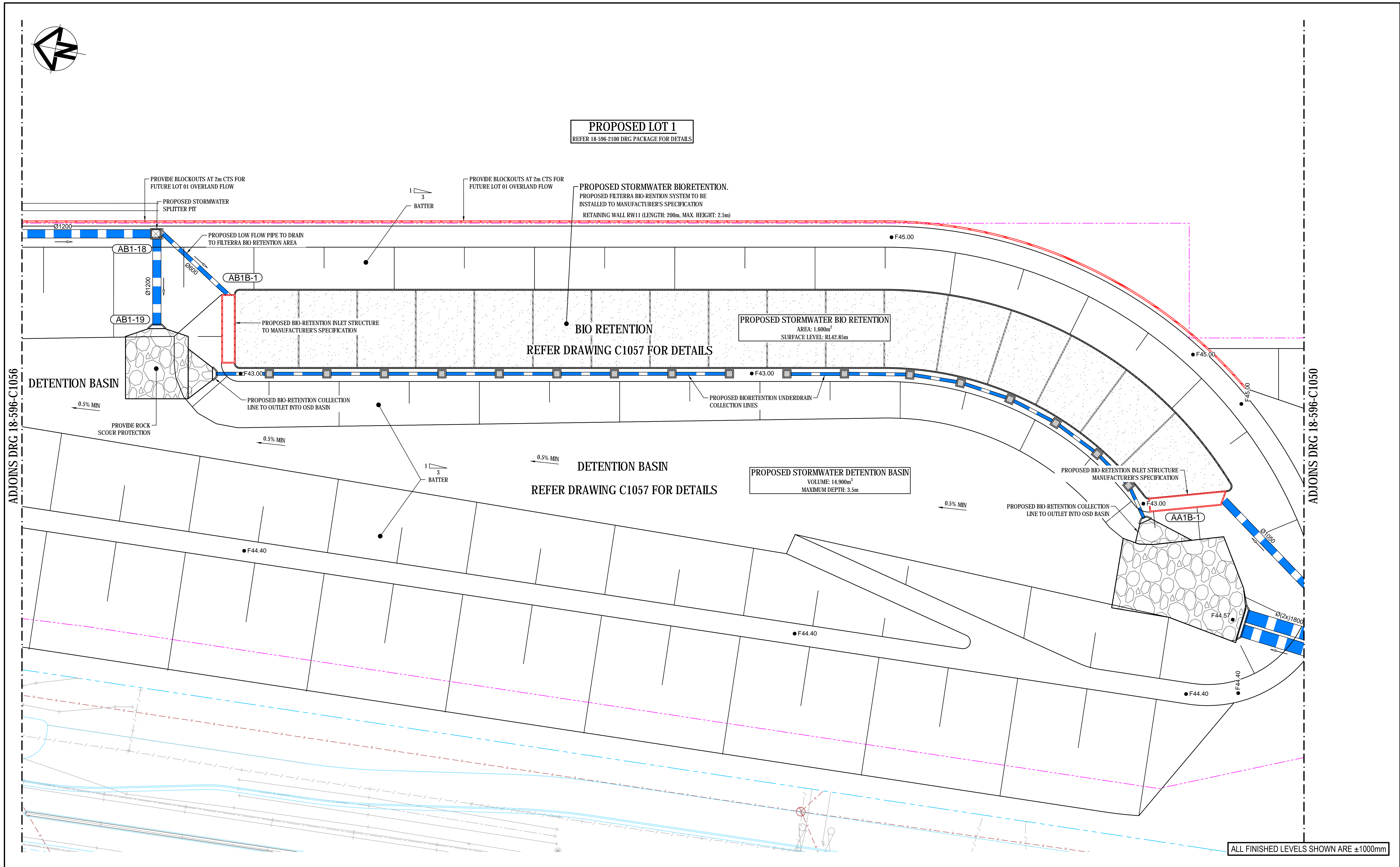
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



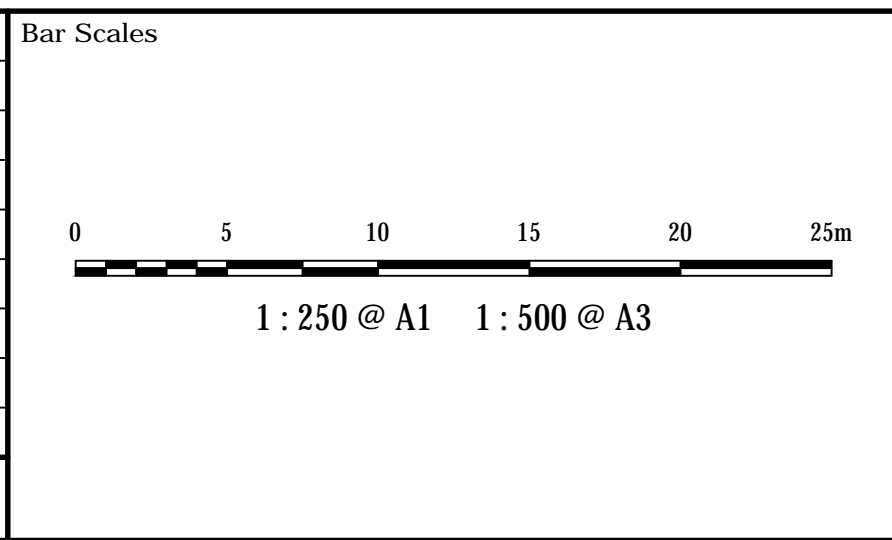
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		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	ROADWORKS AND STORMWATER DRAINAGE SHEET 7

Civil Engineers and Project Managers		
at&i		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1056	Issue C



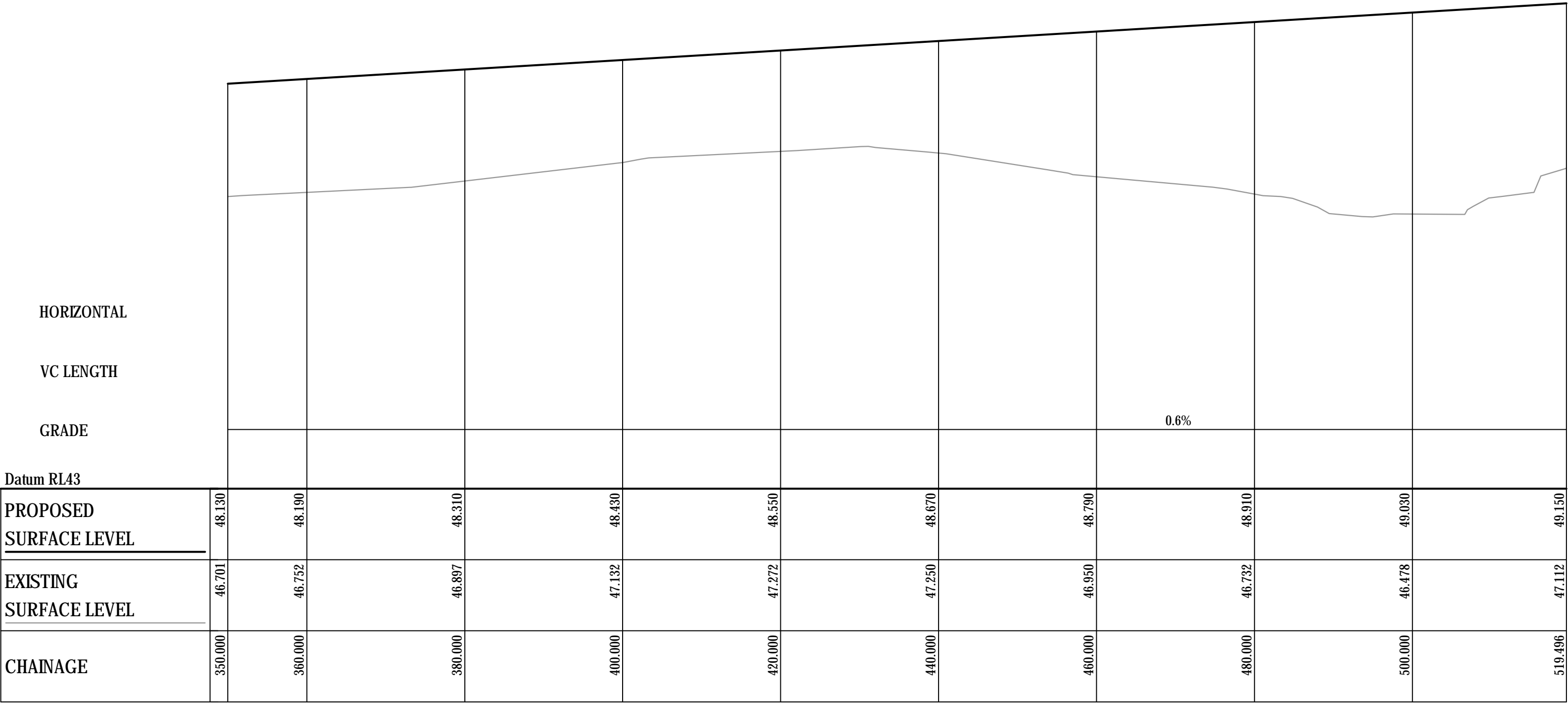
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:250	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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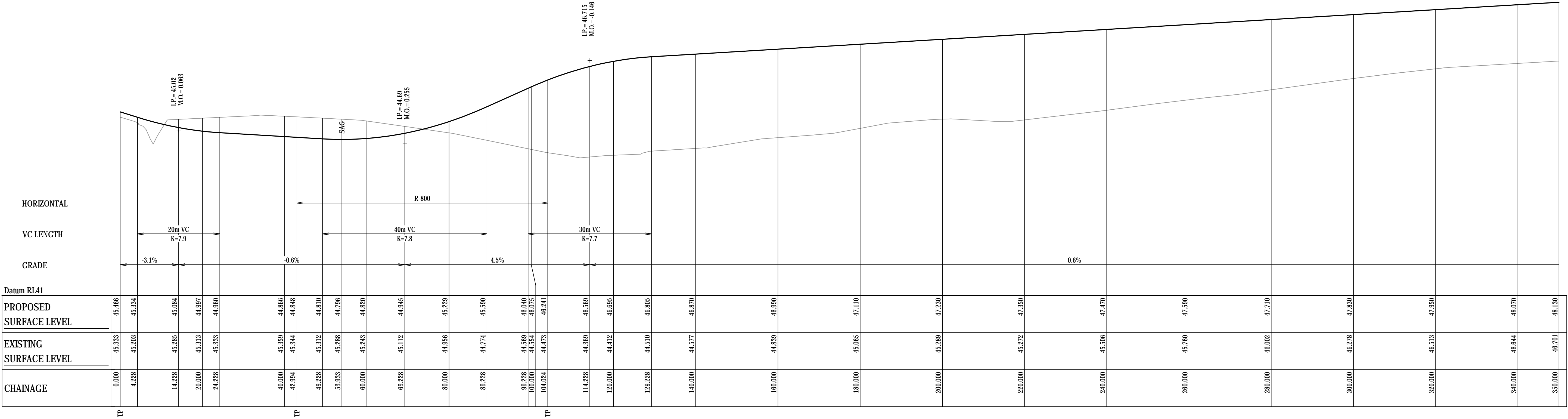
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	ROADWORKS AND STORMWATER DRAINAGE SHEET 8

Civil Engineers and Project Managers		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1057	Issue C



ROAD 01 LONGITUDINAL SECTION

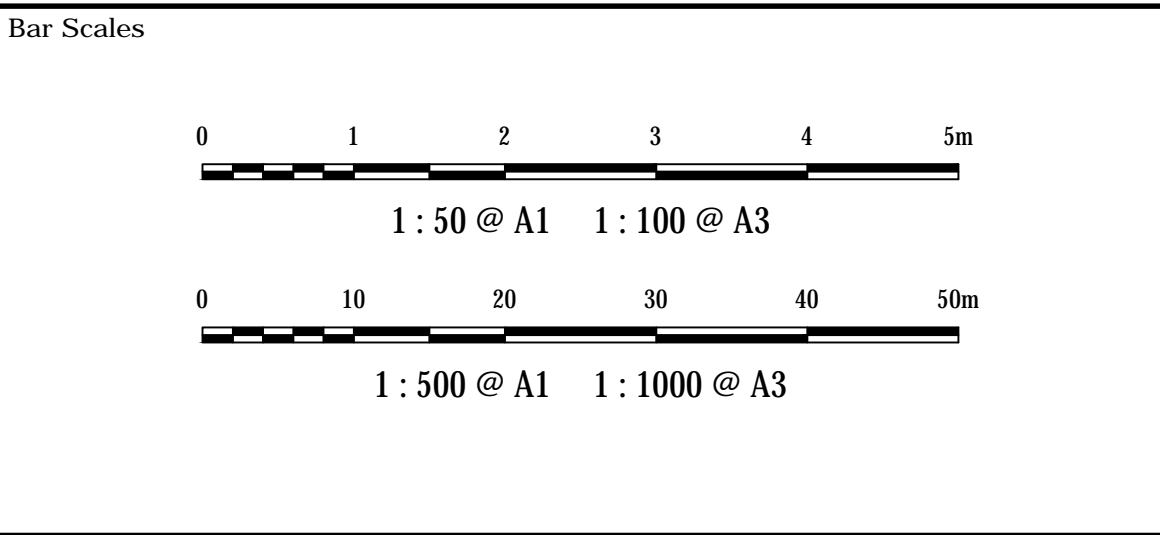
SCALE 1:500 HORI
1:50 VERT.



ROAD 01 LONGITUDINAL SECTION

SCALE 1:500 HORI
1:50 VERT.

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



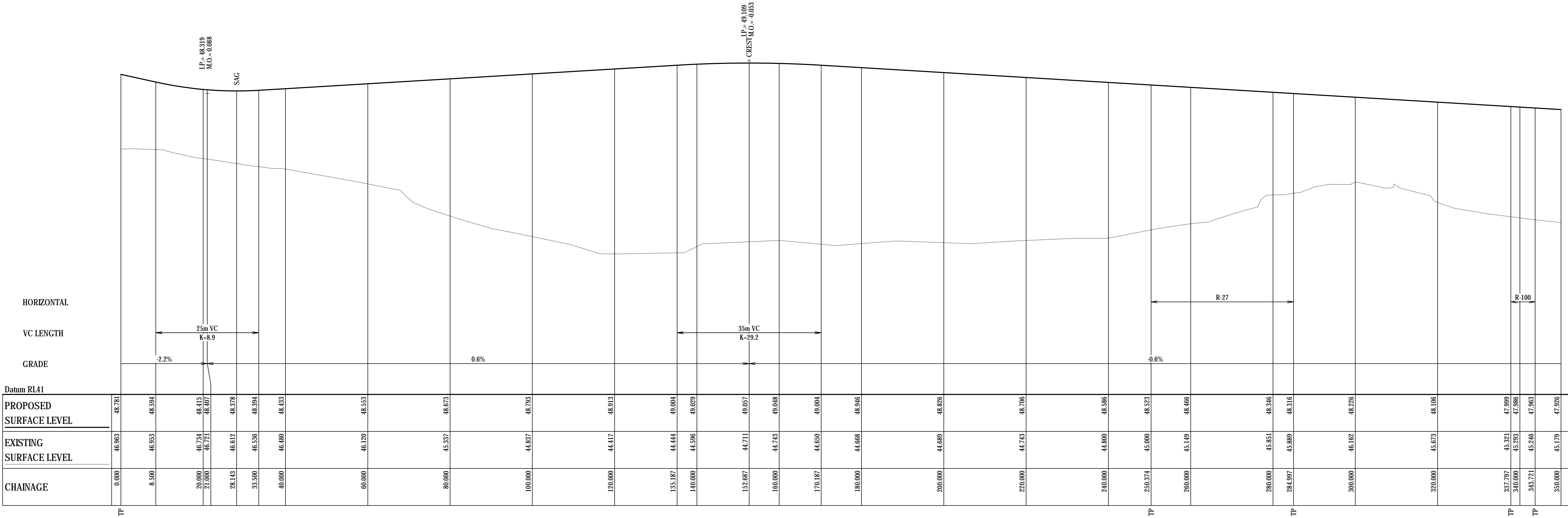
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Scales 1:500 (H) 1:50 (V)	Drawn	PDK
	Designed	PDK
Grid MGA	Checked	AT
Height Datum AHD	Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
	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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	18-596-C1070
Issue	C

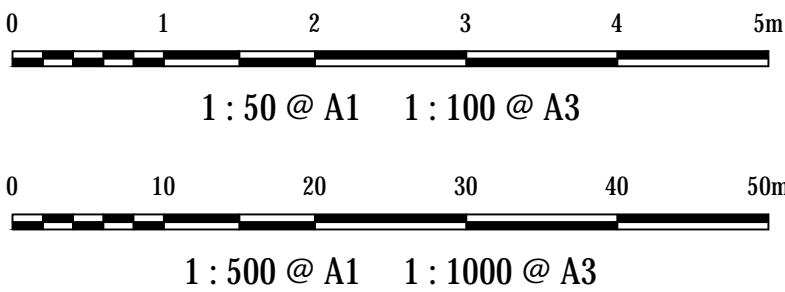


ROAD 02 LONGITUDINAL SECTION

SCALE 1:500 HORI
1:50 VERT.

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date

Bar Scales



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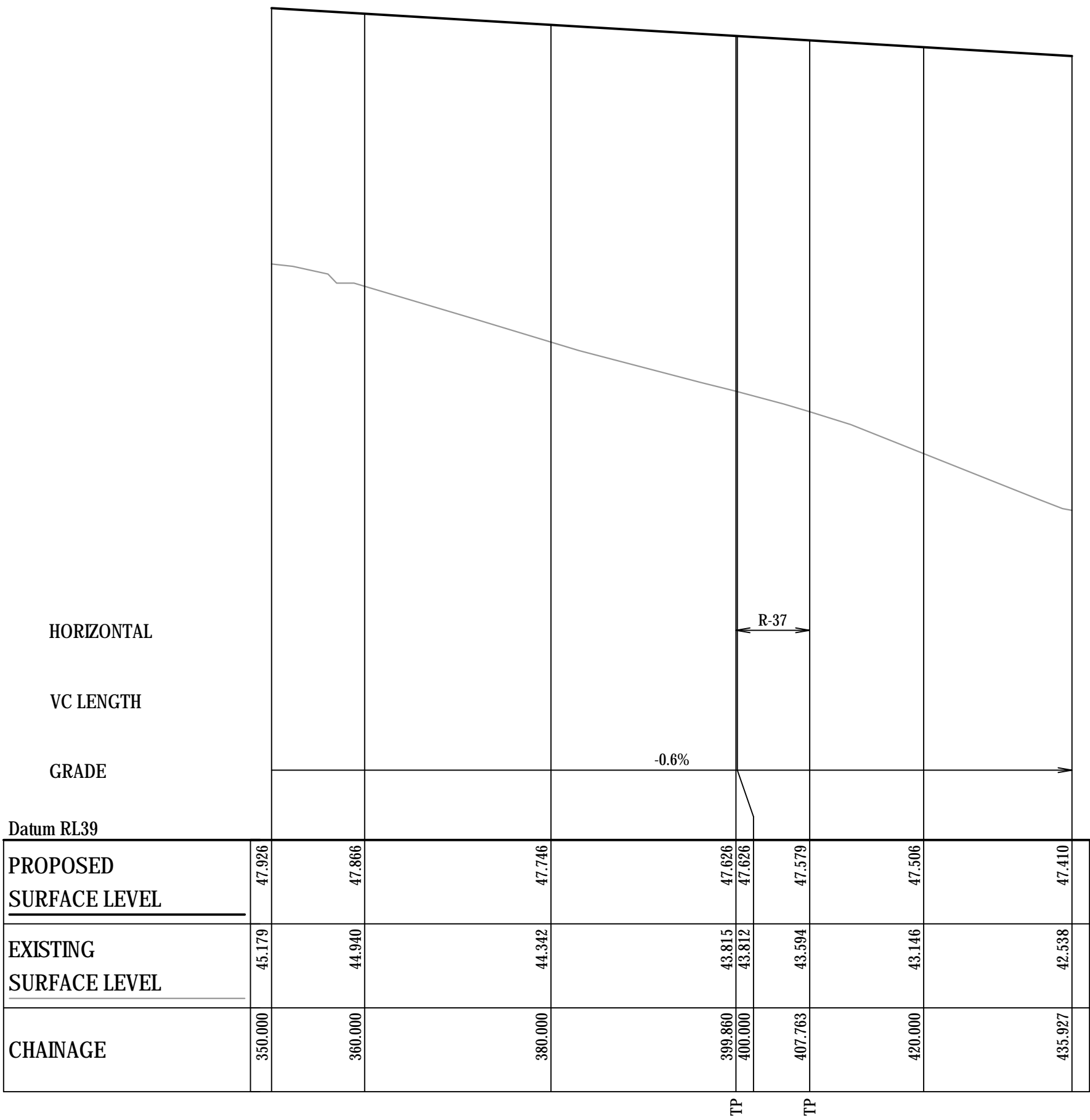
Client



Scales	1:500 (H) 1:50 (V)	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM

Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1	
Title ROAD 02 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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. 18-596-C1071	Issue C



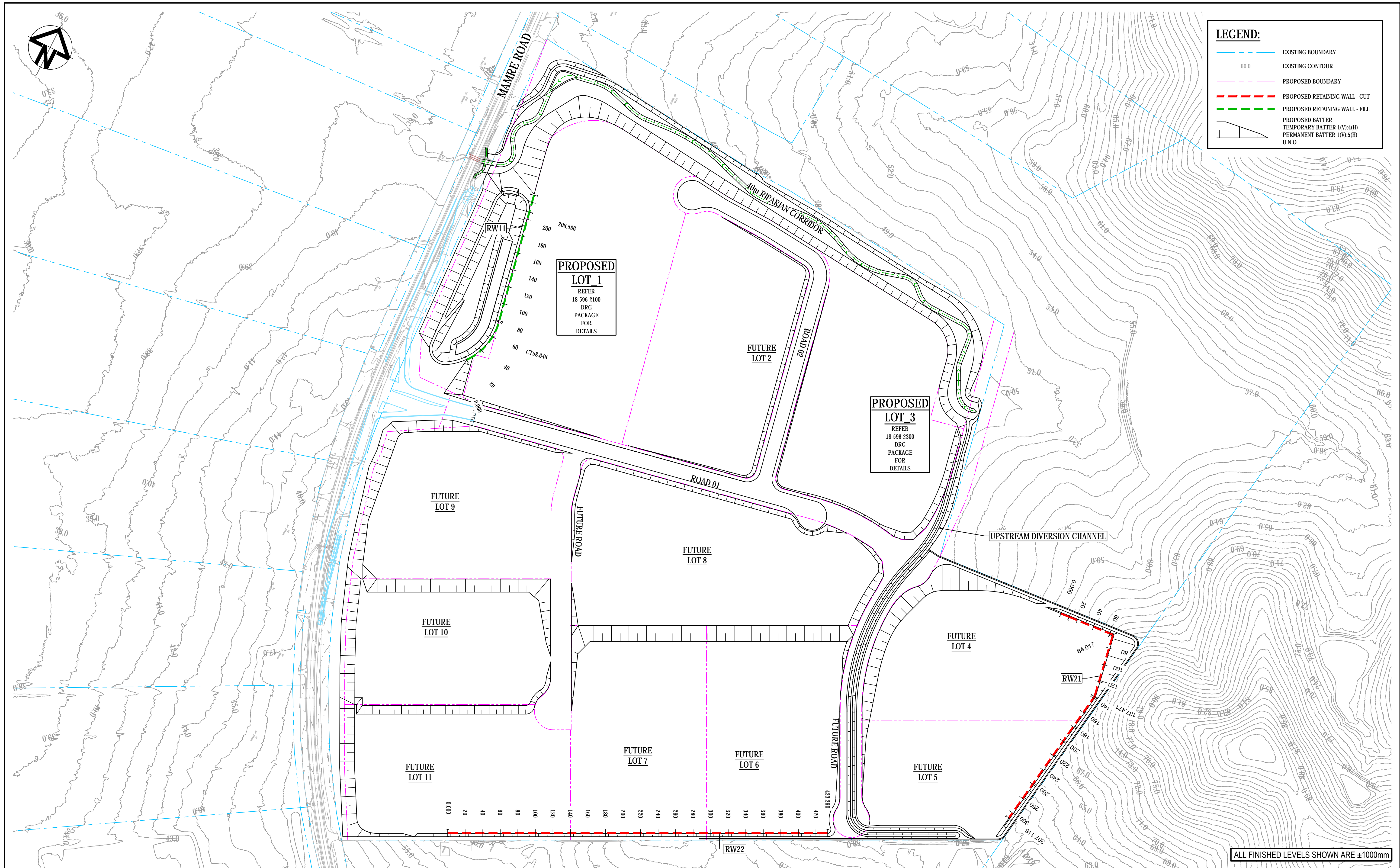
ROAD 02 LONGITUDINAL SECTION

SCALE 1:500 HORI
1:50 VERT.

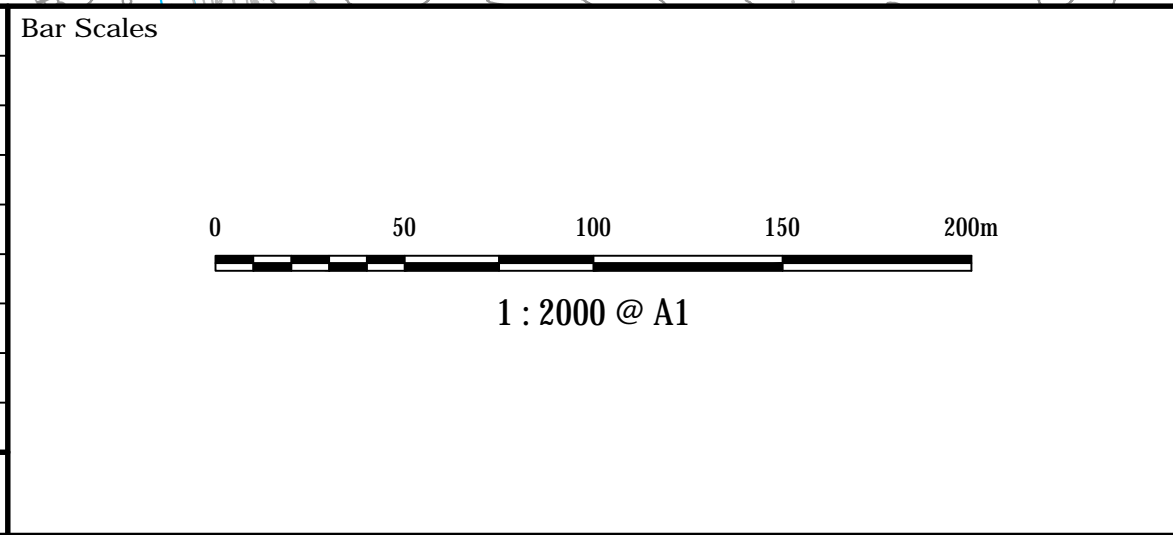
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C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20						<p>Title</p> <p>ROAD 02 LONGITUDINAL SECTION SHEET 2</p>	<p>Status</p> <p>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</p>	<p>A1</p>
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20								
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20								
Issue	Description	Date						<p>Project - Drawing No.</p> <p>18-596-C1072</p>	<p>Issue</p> <p>C</p>	

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\1000_STAGE 1 SSD\18-596-C1072.dwg



C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



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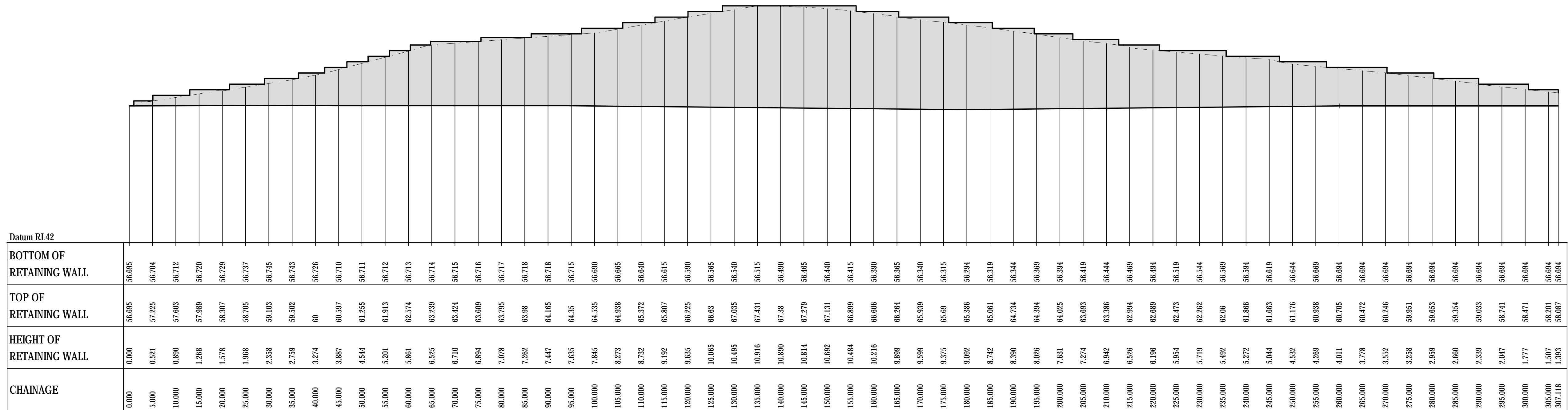


Scales	1:2000	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	RETAINING WALL GENERAL ARRANGEMENT PLAN

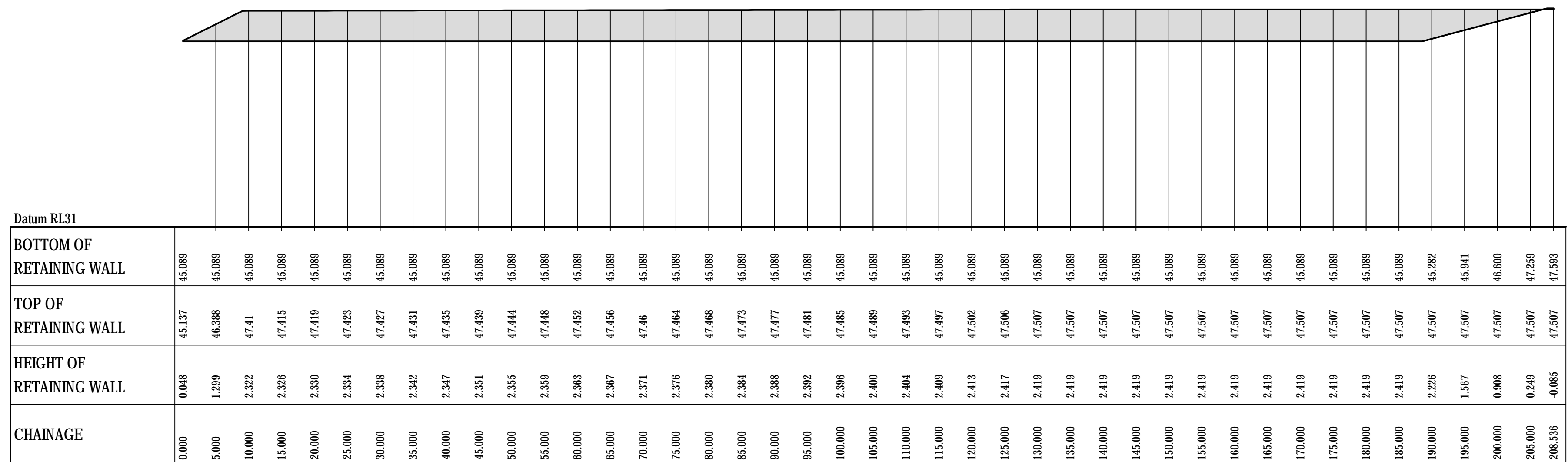
Civil Engineers and Project Managers	at&l	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1080	Issue C

NOTE:
RETAINING WALL DESIGN AND DETAIL TO BE
CONFIRMED AT DETAILED DESIGN STAGES.



RETAINING WALL RW21 PROFILE

SCALE 1:500 HORI.
1:250 VERT.

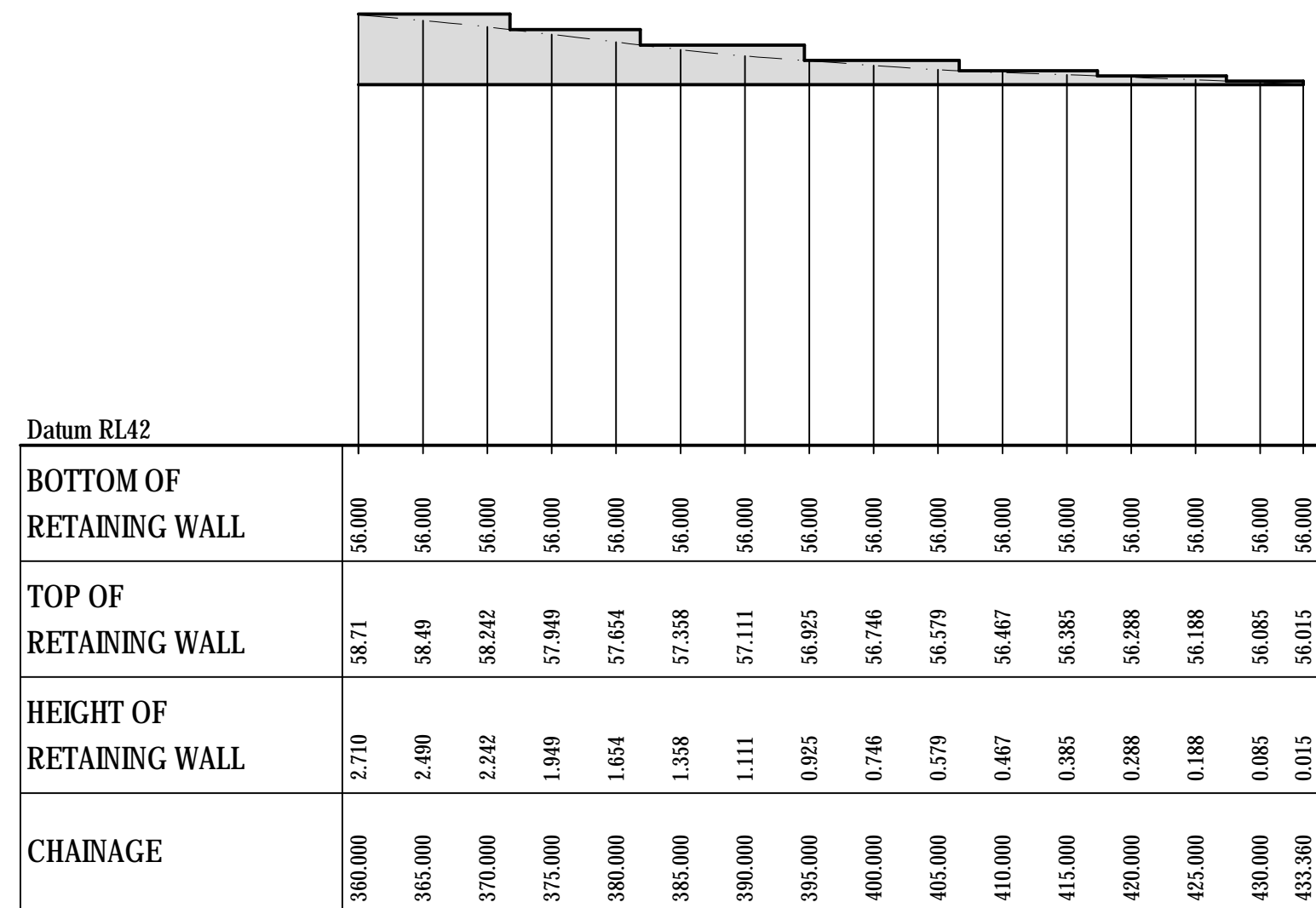


RETAINING WALL RW11 PROFILE

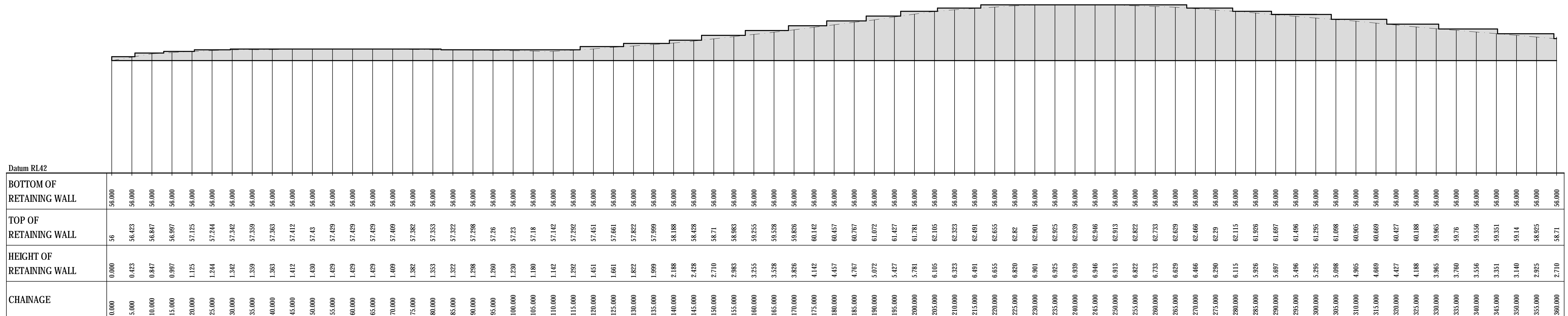
SCALE 1:500 HORI.
1:250 VERT.

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NOTE:
RETAINING WALL DESIGN AND DETAIL TO BE
CONFIRMED AT DETAILED DESIGN STAGES.



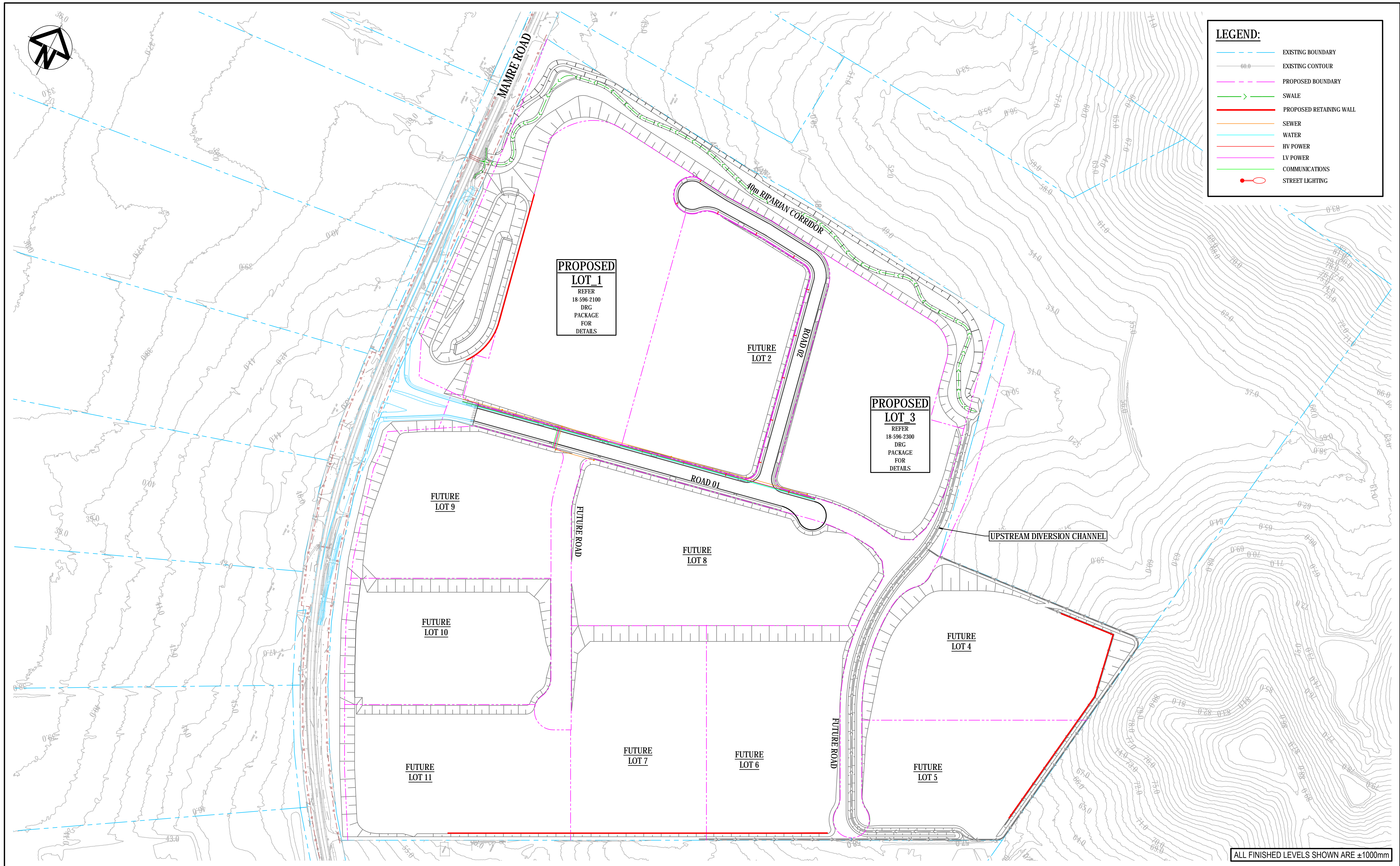
RETAINING WALL RW22 PROFILE



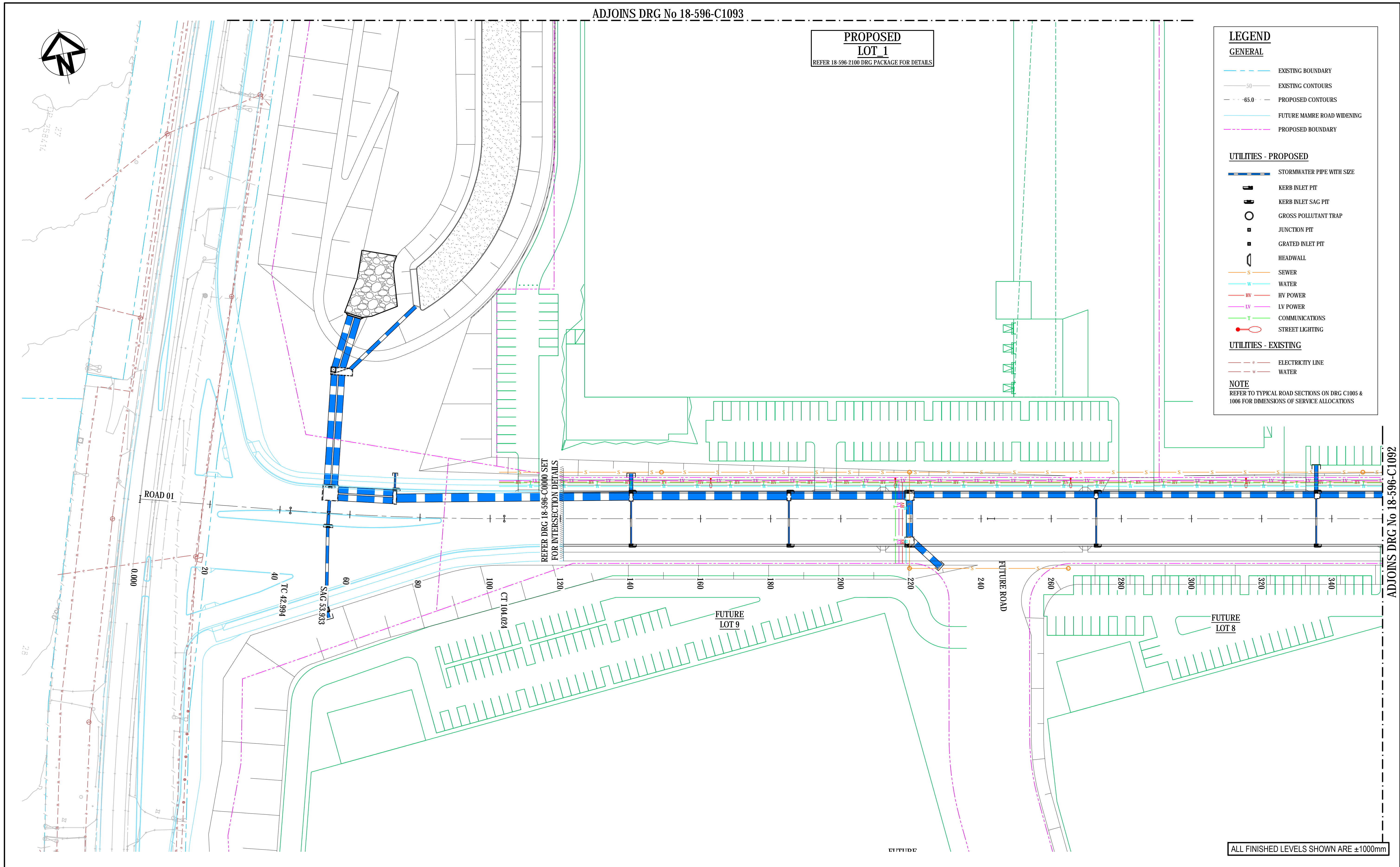
RETAINING WALL RW22 PROFILE

SCALE 1:500 HORI.
1:250 VERT.

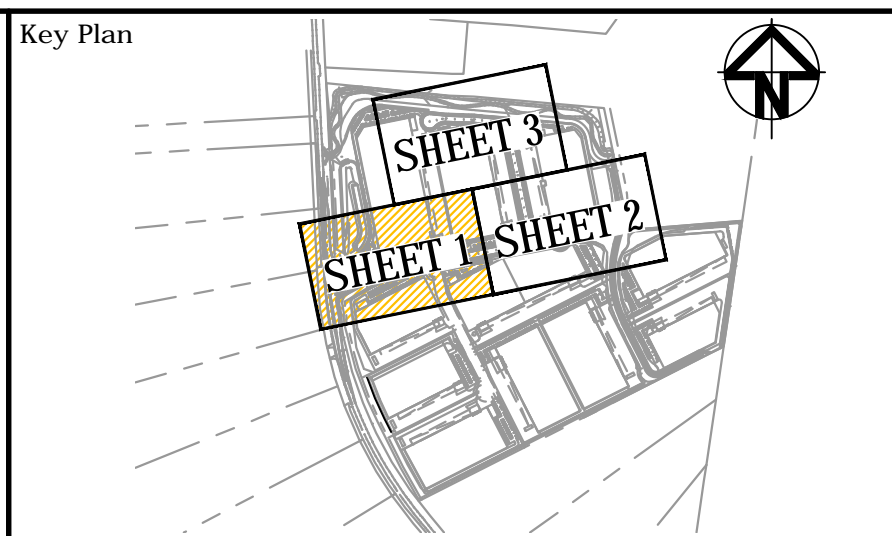
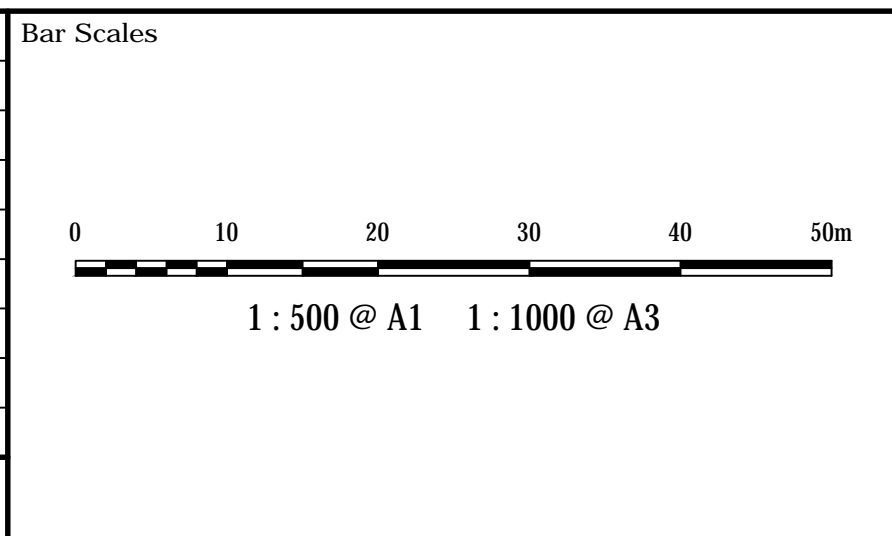
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C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date

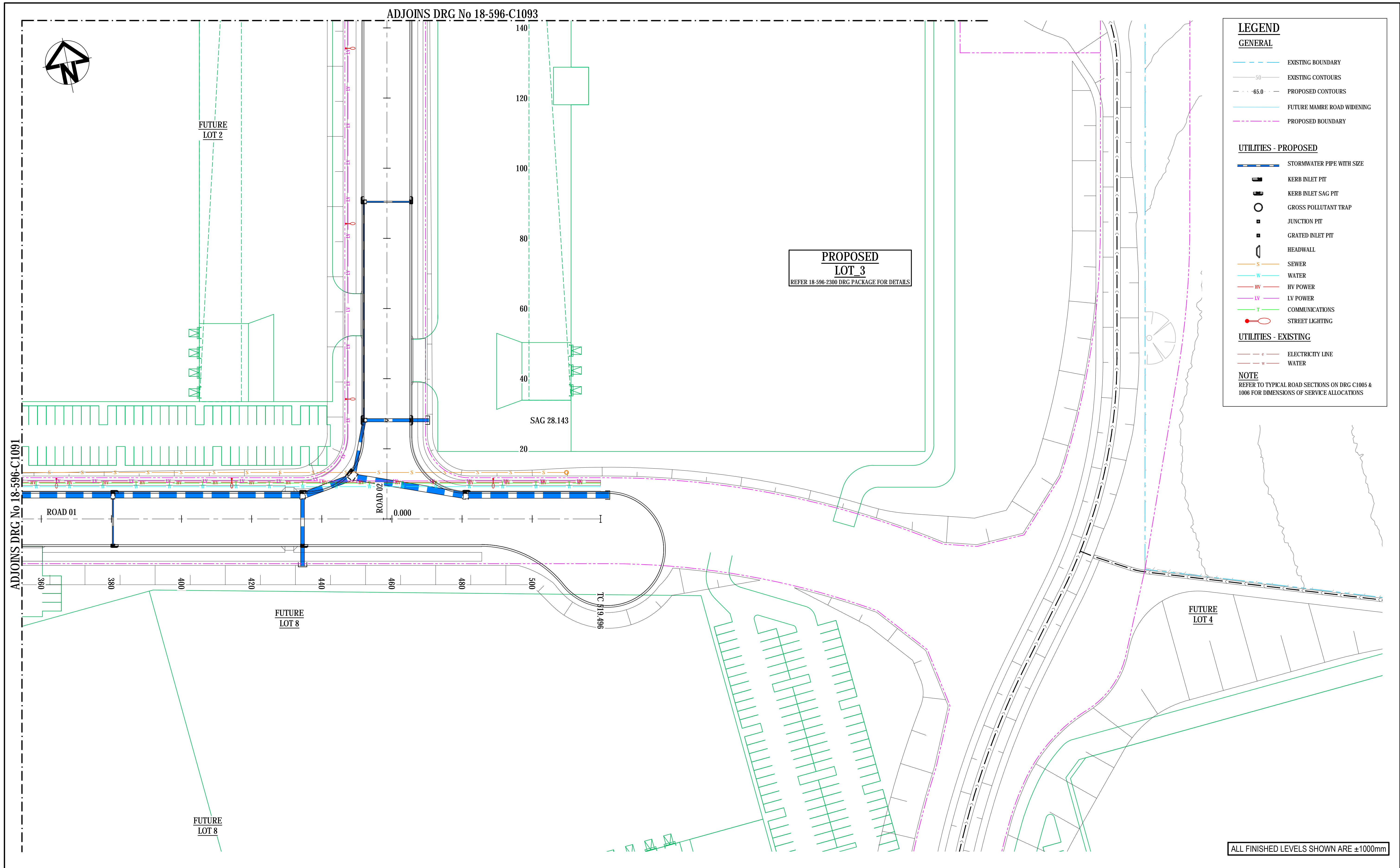


Scales	1:500	Drawn	PDK
Grid	MCA	Designed	PDK
Height Datum	AHD	Checked	AT
		Approved	AM

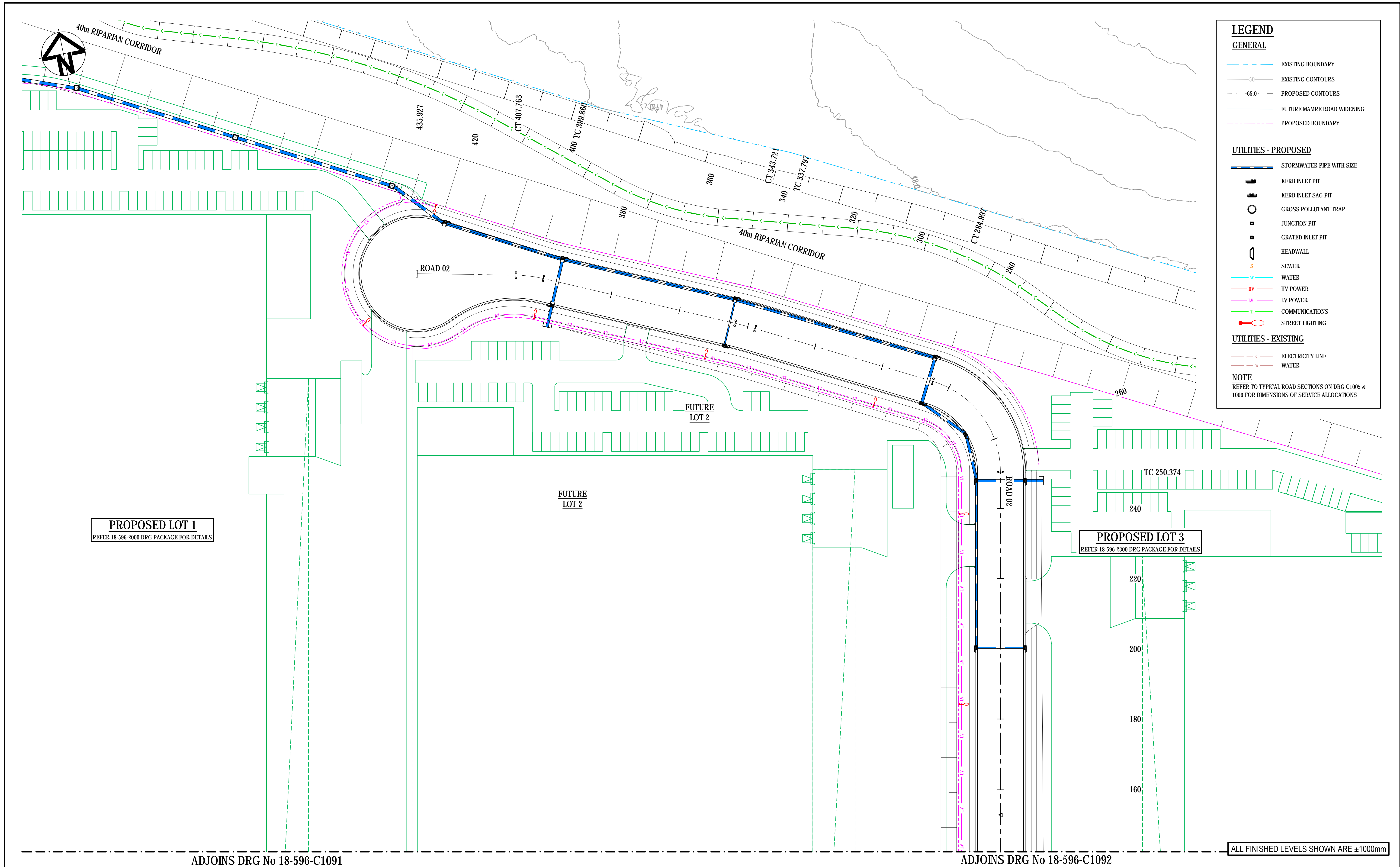
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1

Civil Engineers and Project Managers		
	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 APPROVAL <u>NOT TO BE USED FOR CONSTRUCTION</u>	A1
Project - Drawing No.	18-596-C1091	Issue C



			<div>Bar Scales</div> 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LEGEND

GENERAL

EXISTING BOUNDARY

EXISTING CONTOURS

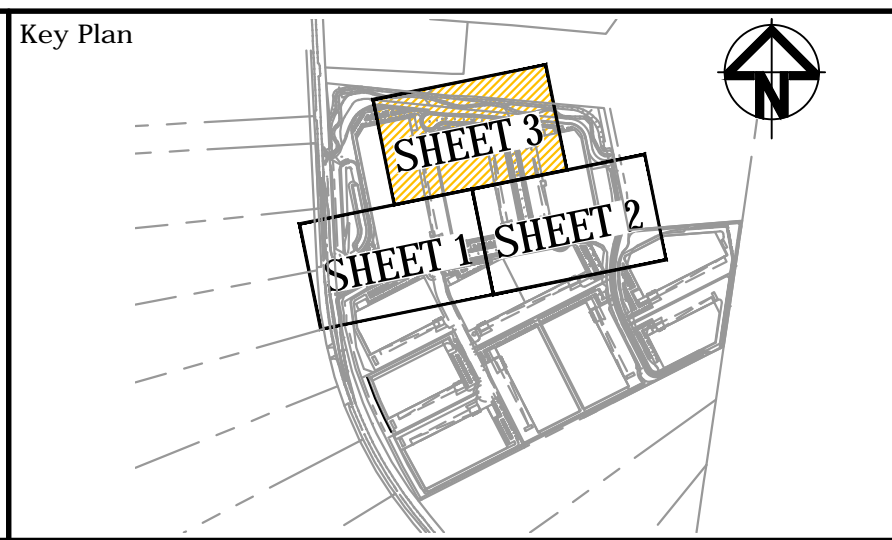
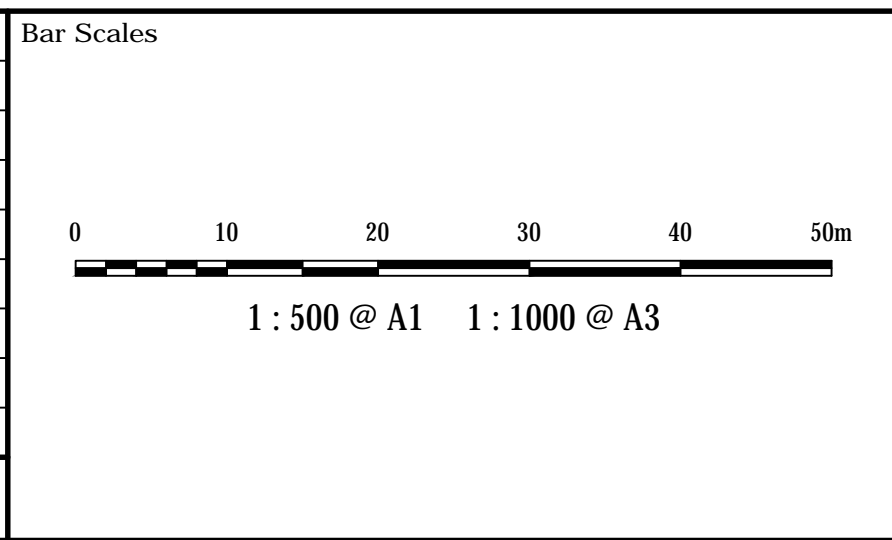
PROPOSED CONTOURS

FUTURE MAMRE ROAD WIDENING

PROPOSED BOUNDARY

UTILITIES - PROPOSEDSTORMWATER PIPE WITH SIZEKERB INLET PITKERB INLET SAG PITGROSS POLLUTANT TRAPJUNCTION PITGRATED INLET PITHEADWALLSEWERWATERHV POWERLV POWERCOMMUNICATIONSSTREET LIGHTING**UTILITIES - EXISTING**ELECTRICITY LINEWATER**NOTE**
REFER TO TYPICAL ROAD SECTIONS ON DRG C1005 & 1006 FOR DIMENSIONS OF SERVICE ALLOCATIONS

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:500	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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Project

ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1

Title

SERVICES AND
UTILITIES COORDINATION
PLAN
SHEET 3

Civil Engineers and Project Managers

at&i

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

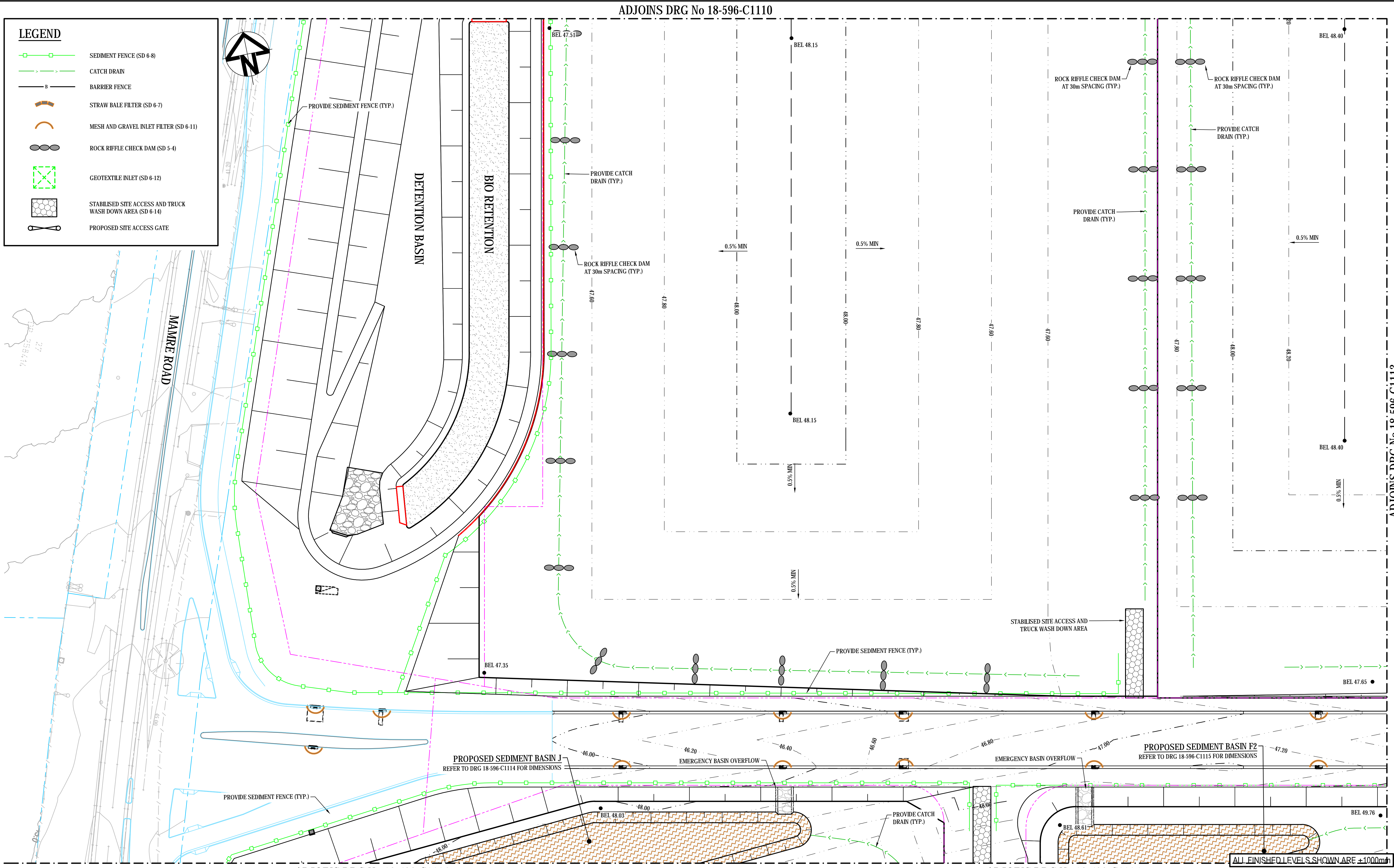
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NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.

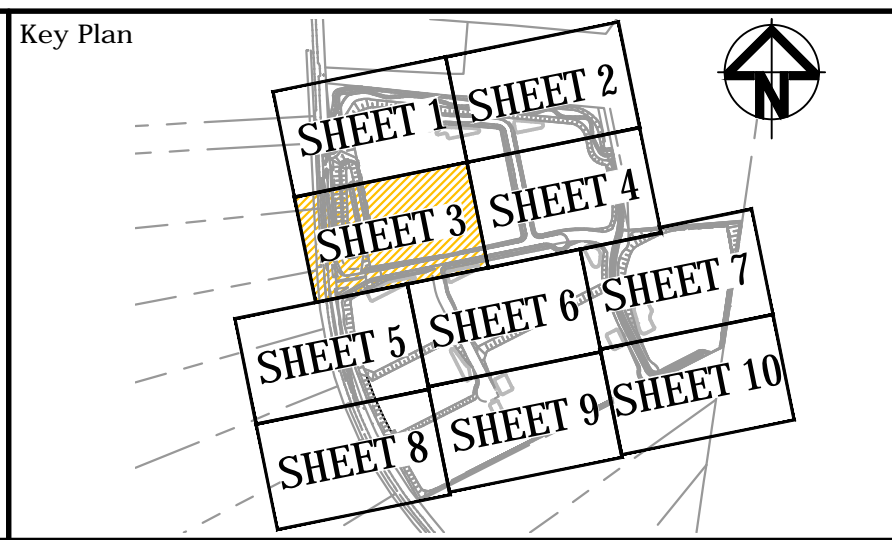
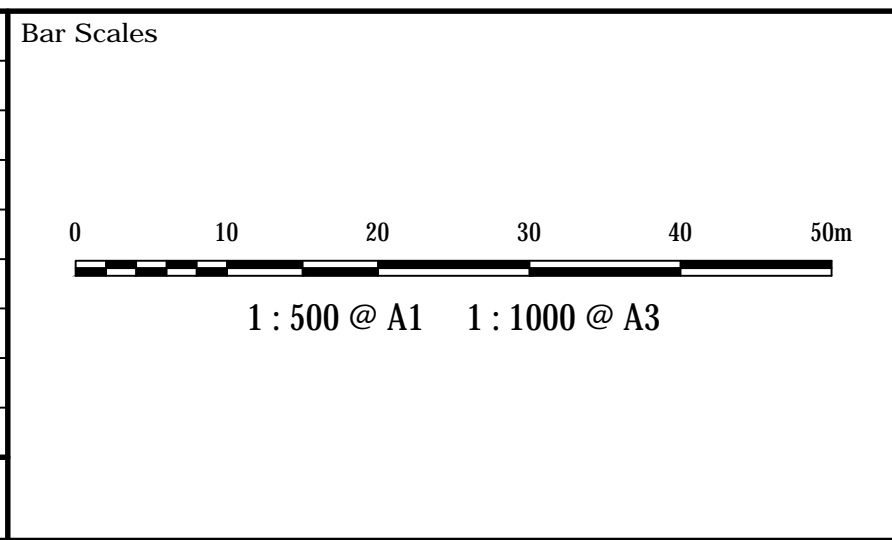
18-596-C1093

Issue

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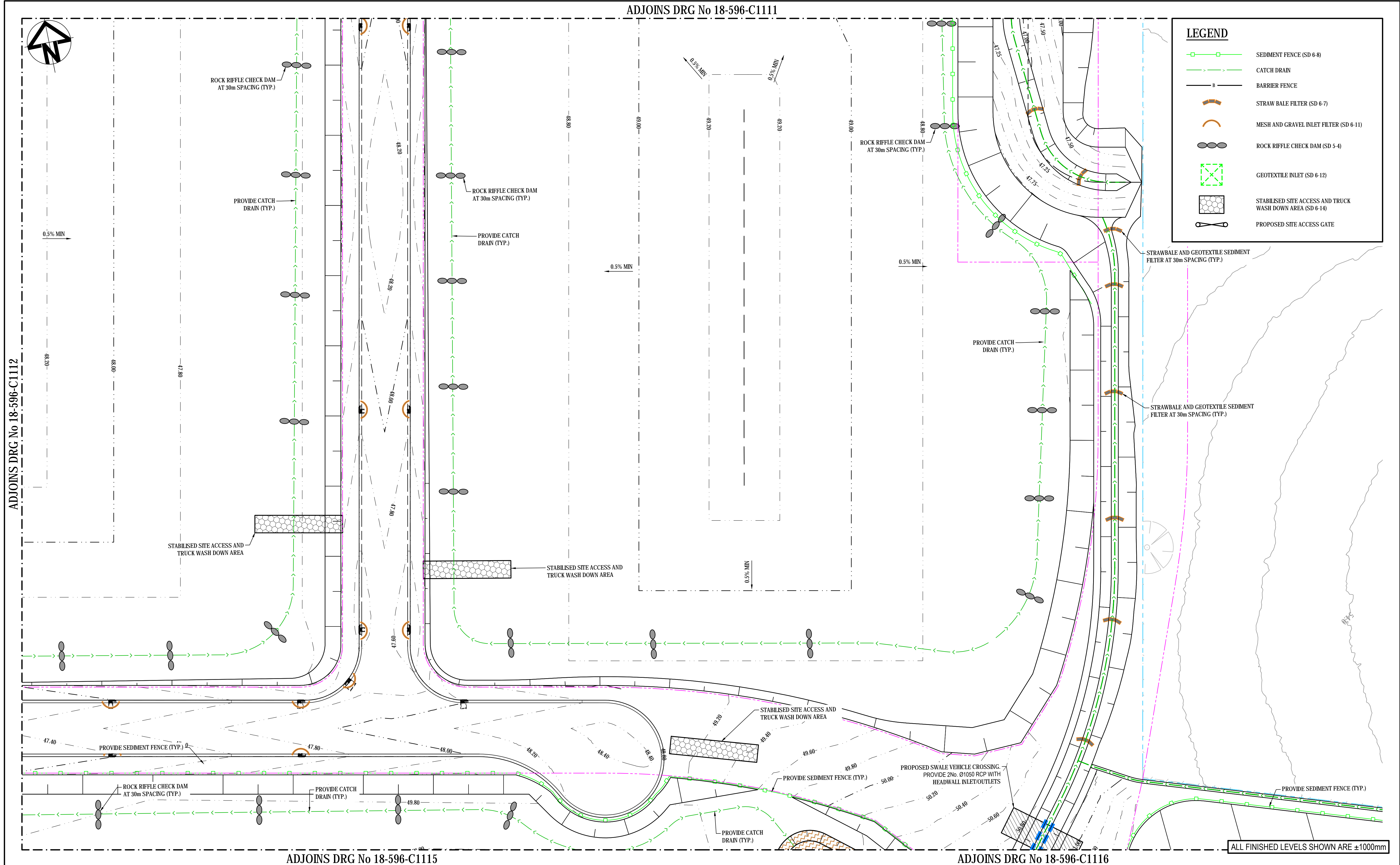
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B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:500	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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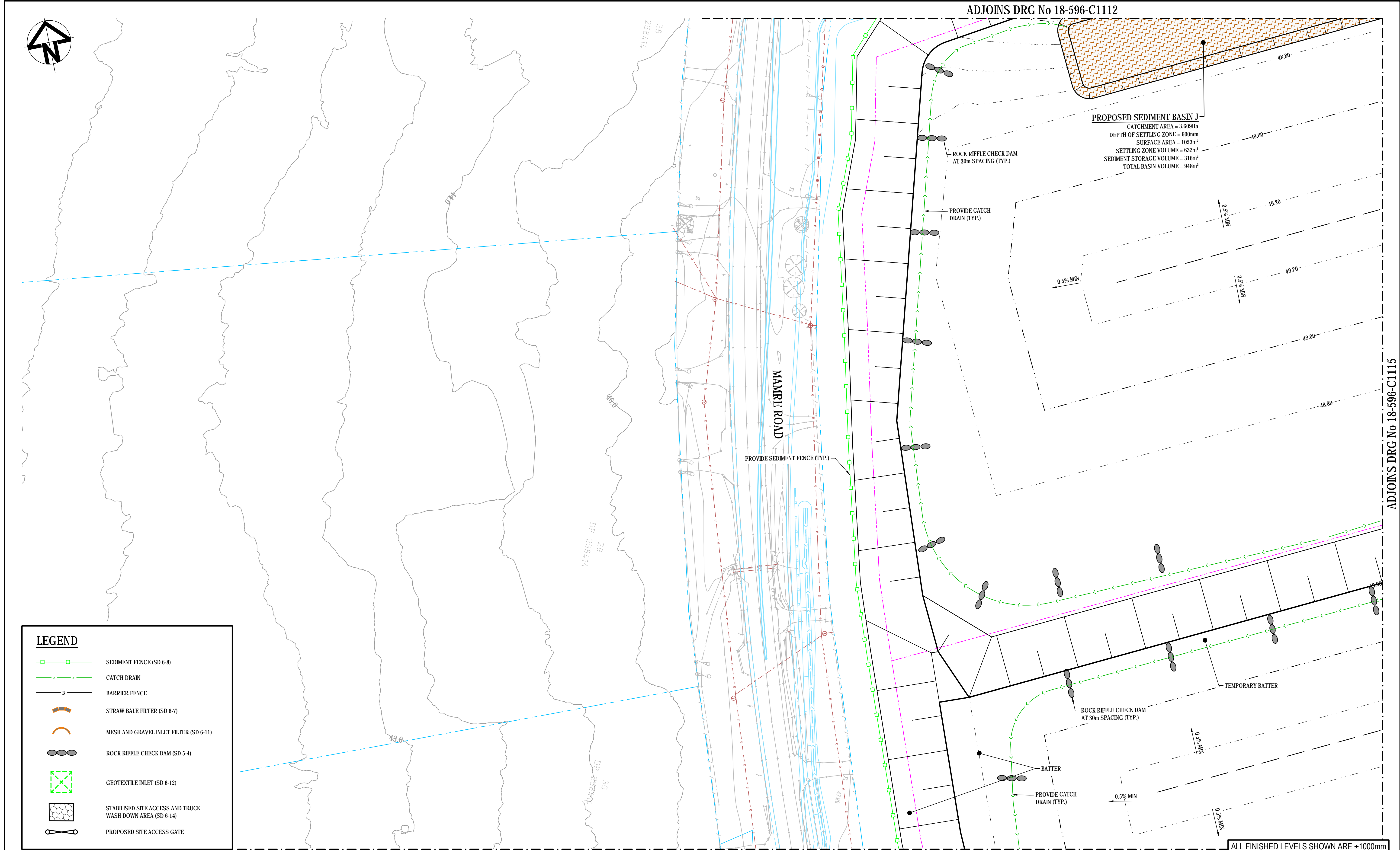
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 3

Civil Engineers and Project Managers	
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 APPROVAL
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Project - Drawing No.	18-596-C1112
Issue	C

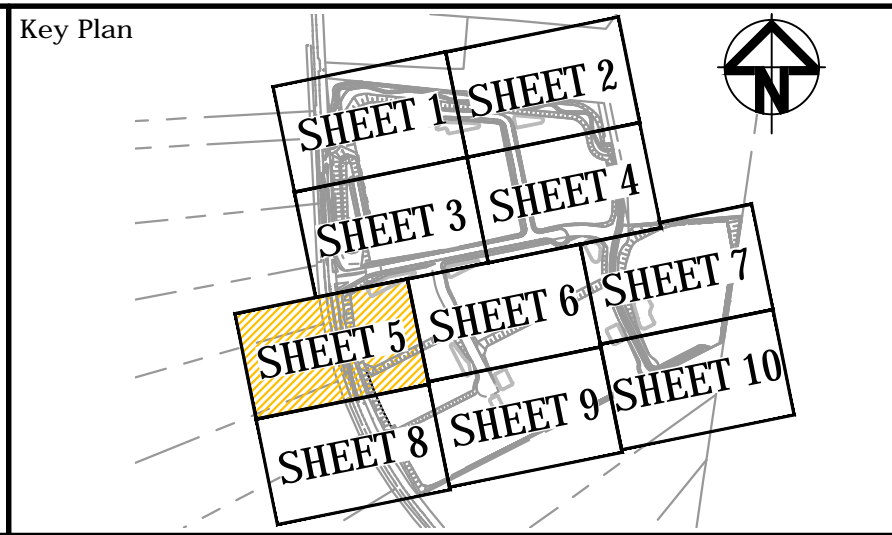
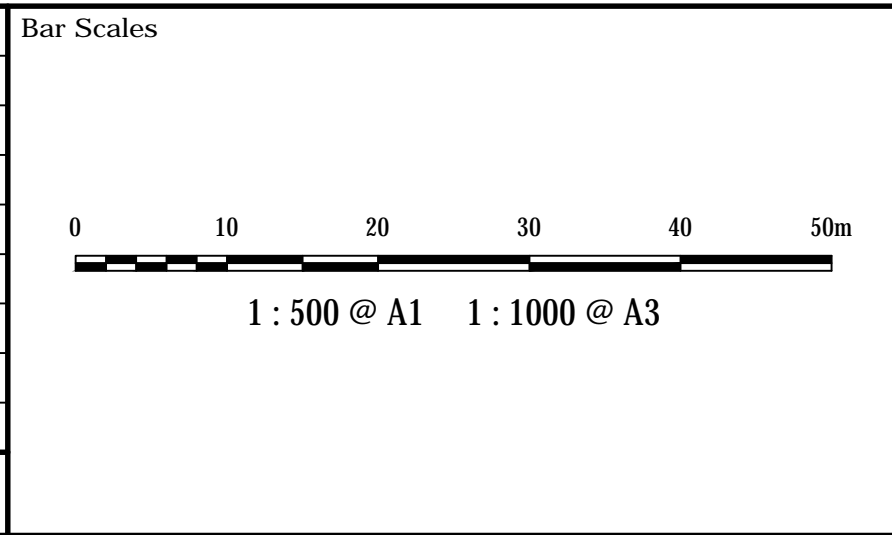


C		ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B		ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A		ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date	

Bar Scales	Key Plan	Client	Scales	Drawn	Designed	Checked	Approved	Project	Civil Engineers and Project Managers
			1:500	PDK	PDK	AT	AM	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1	
1:500 @ A1 1:1000 @ A3			Grid MGA					EROSION AND SEDIMENT CONTROL PLAN SHEET 4	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
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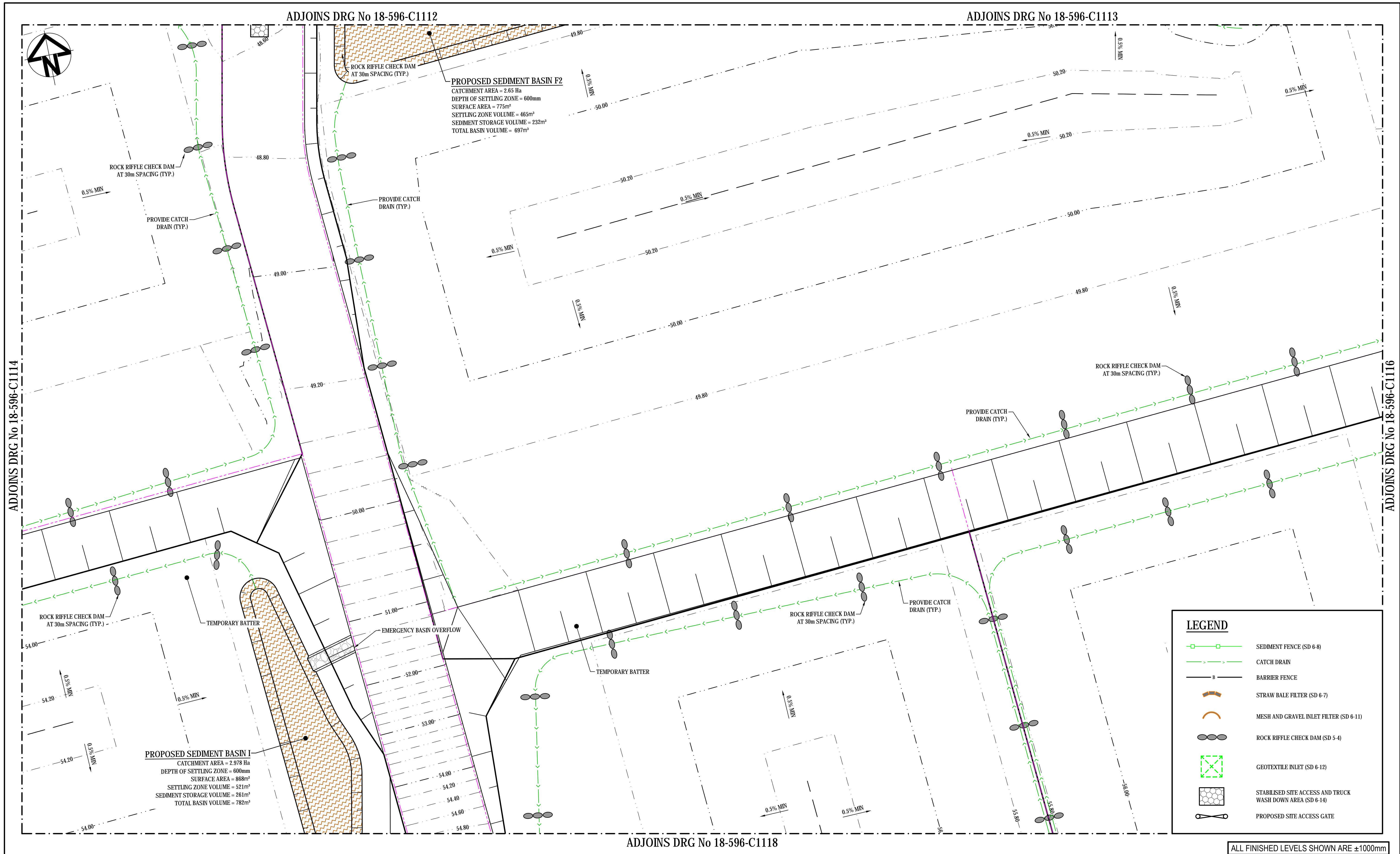
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B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



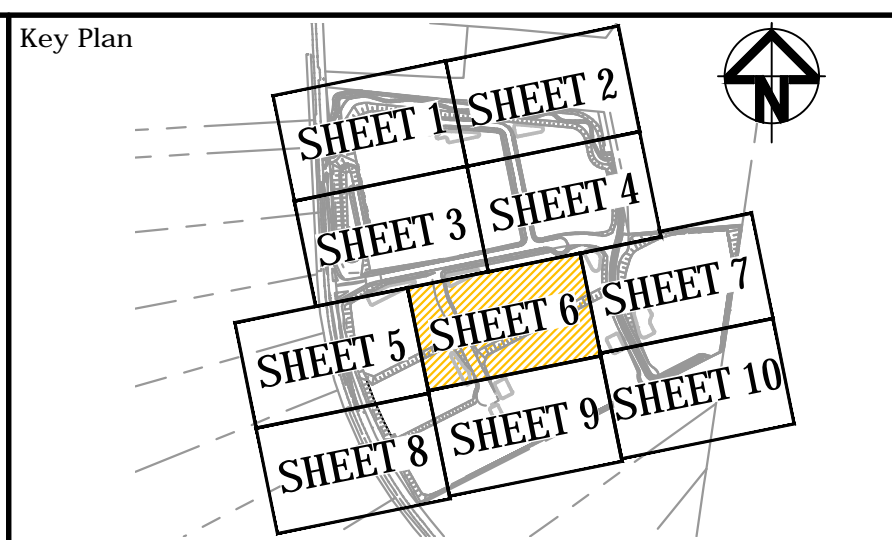
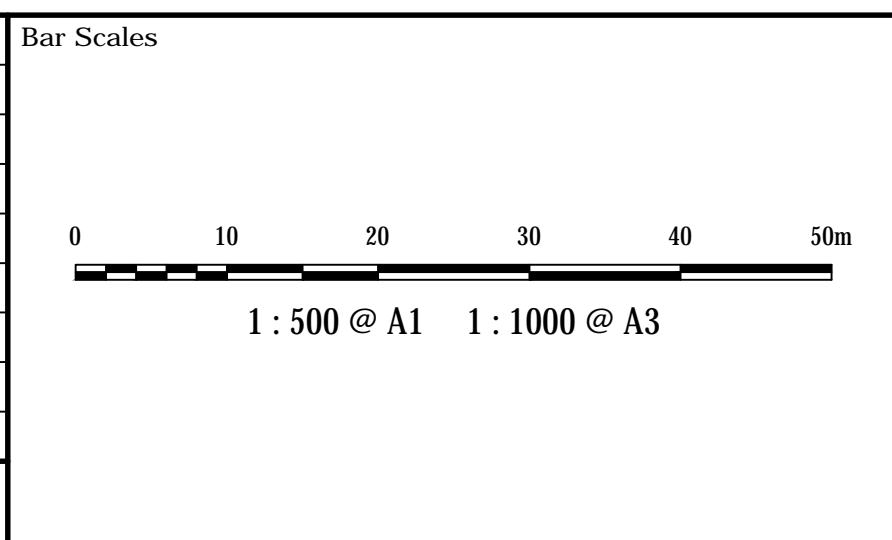
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Grid	MGA	Designed	PDK
Height Datum	AHD	Checked	AT
		Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 5

Civil Engineers and Project Managers		
at&i		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1114	Issue
		C



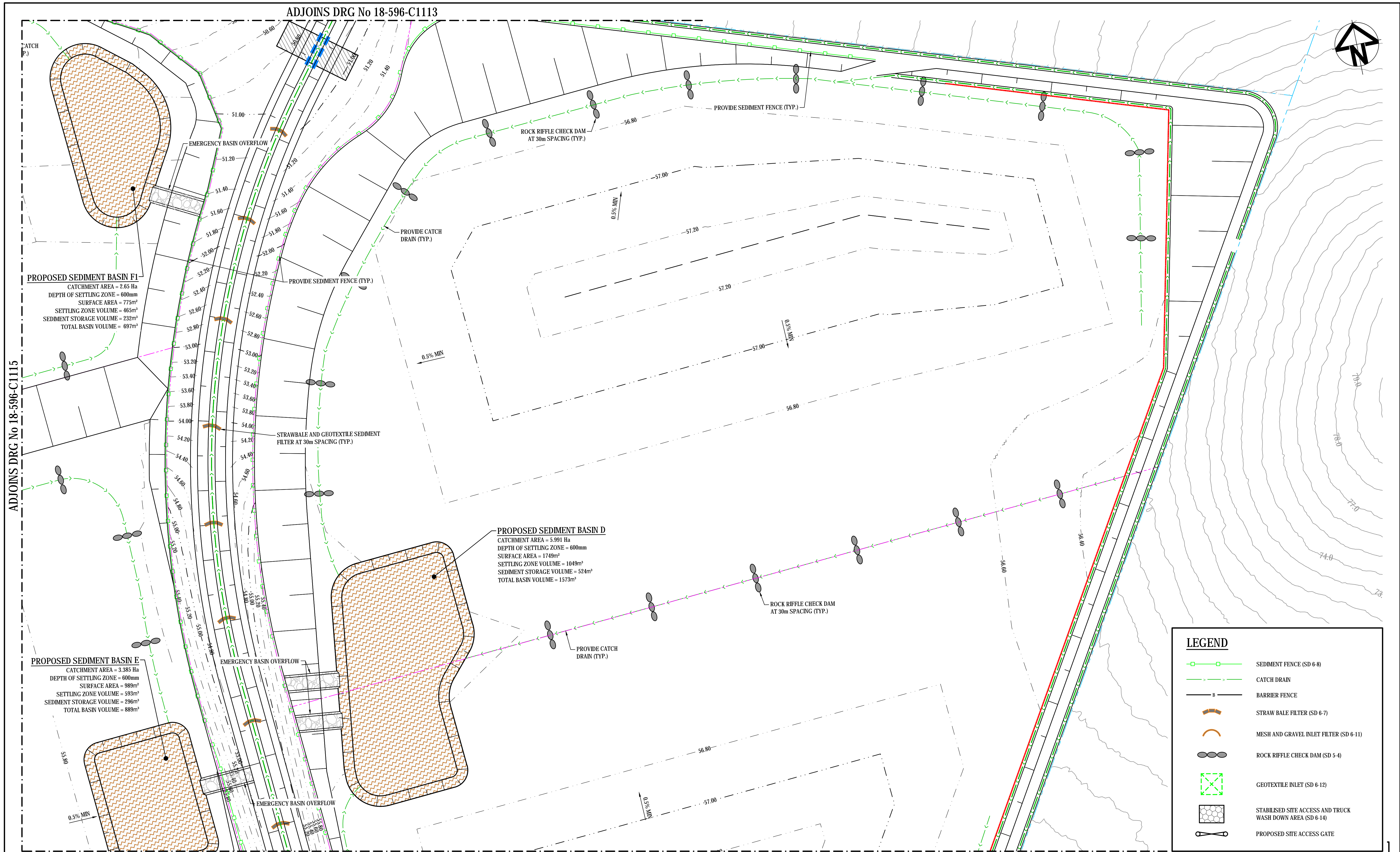
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



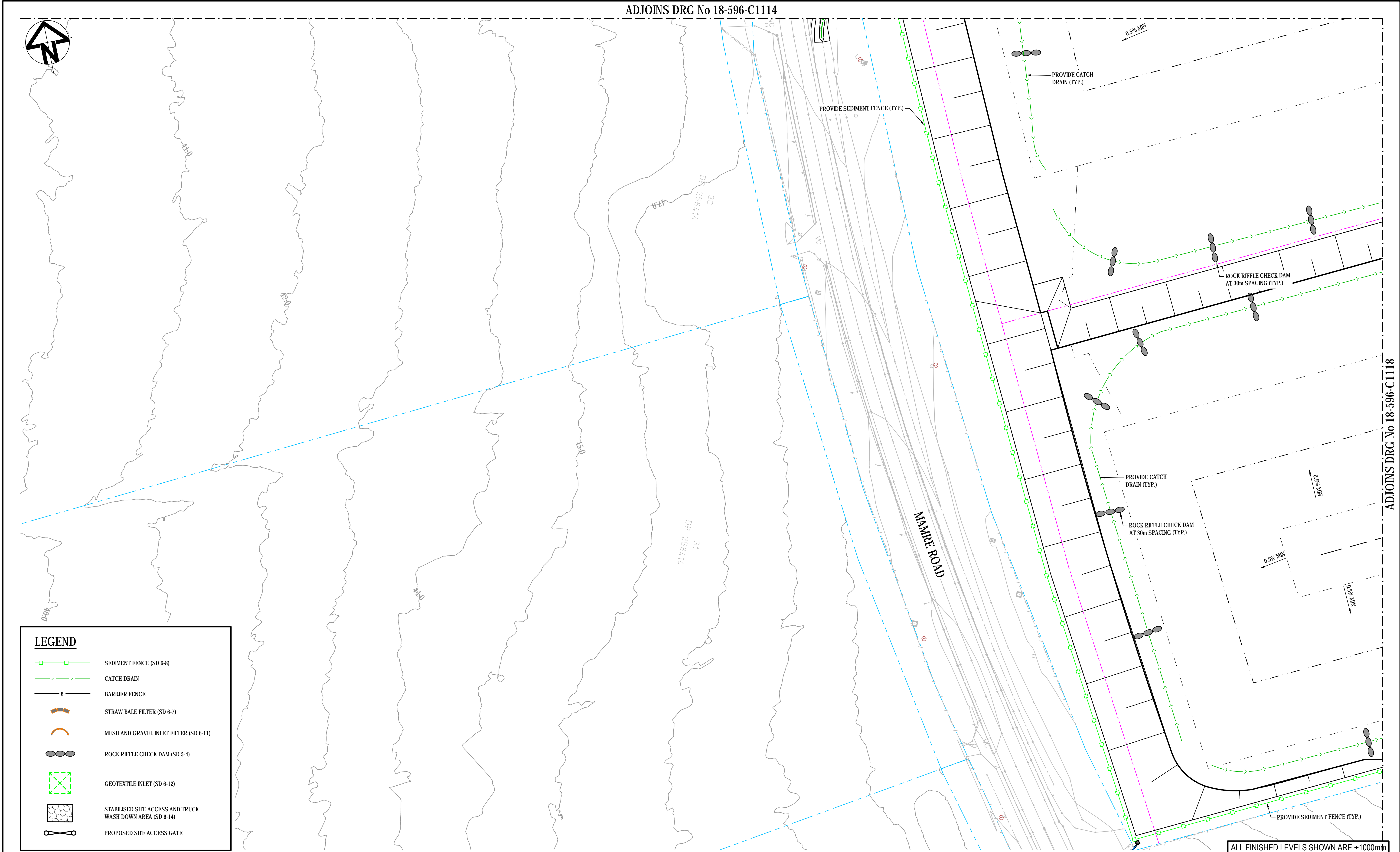
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Height Datum	AHD	Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 6

Civil Engineers and Project Managers	
at&i 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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	18-596-C1115
Issue	C



ADJOINS DRG No 18-596-C1115			ADJOINS DRG No 18-596-C1119			ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1			Civil Engineers and Project Managers		
C ISSUED FOR DEVELOPMENT APPLICATION			15-10-20			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			at&l		
B ISSUED FOR DEVELOPMENT APPLICATION			12-10-20			Title			Status		
A ISSUED FOR DEVELOPMENT APPLICATION			15-05-20			EROSION AND SEDIMENT CONTROL PLAN SHEET 7			FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		
Issue			Description			Project - Drawing No.			18-596-C1116		
			Date						Issue		
									A1		
									C		

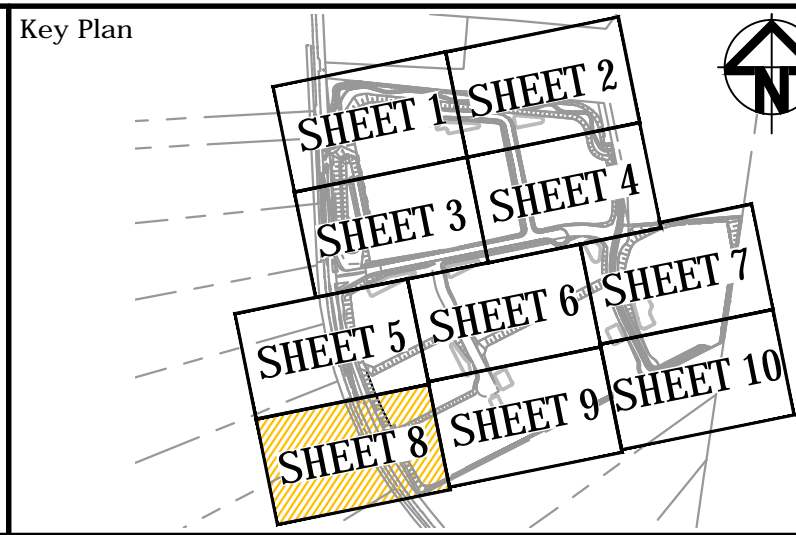
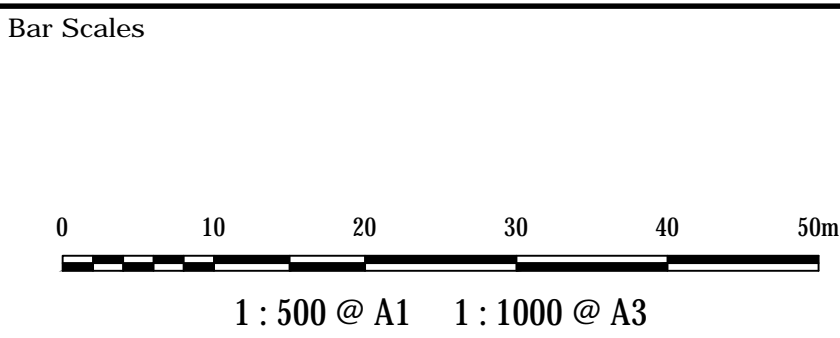


LEGEND

- 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

ALL FINISHED LEVELS SHOWN ARE $\pm 1000m$

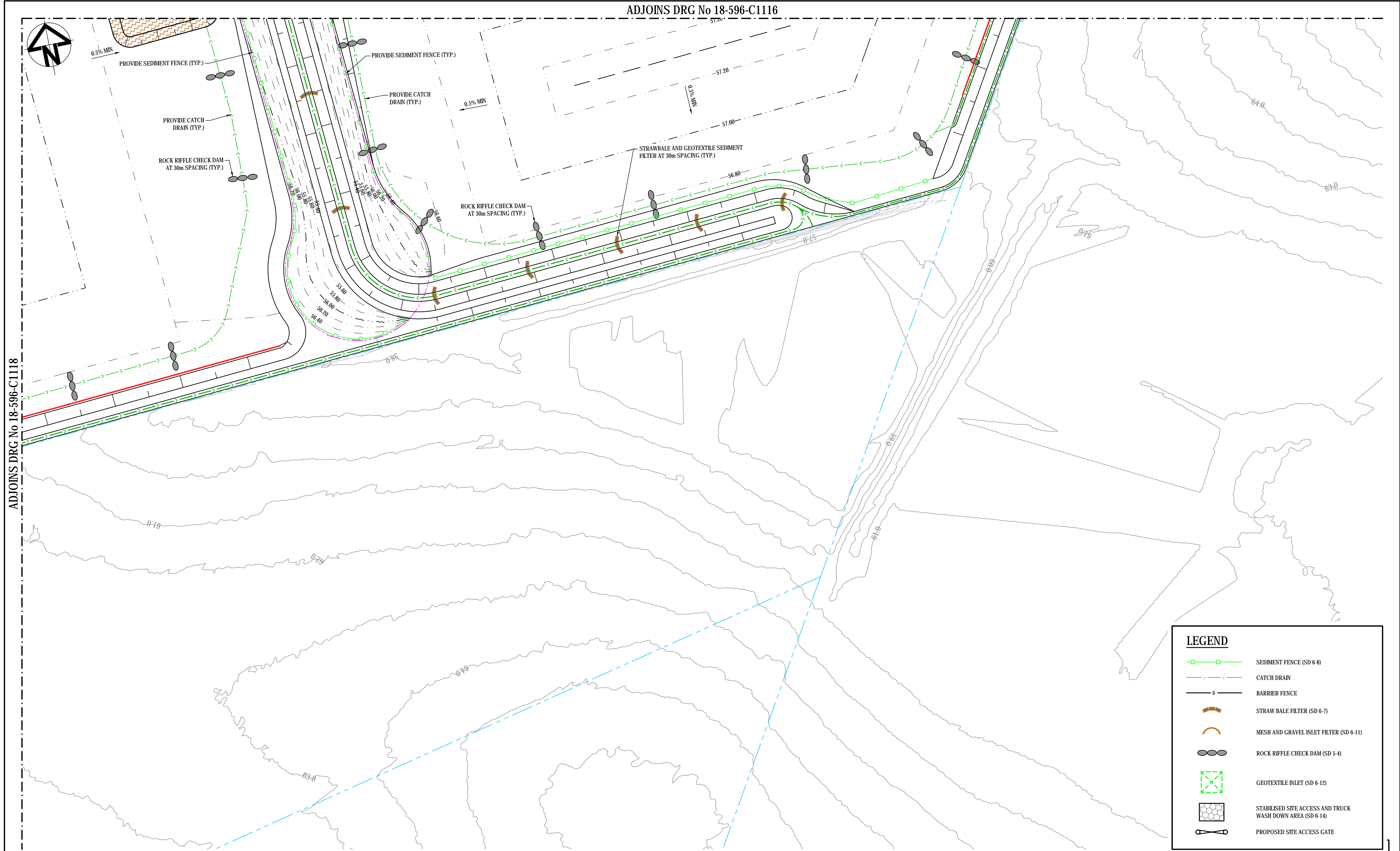
C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:500	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 8

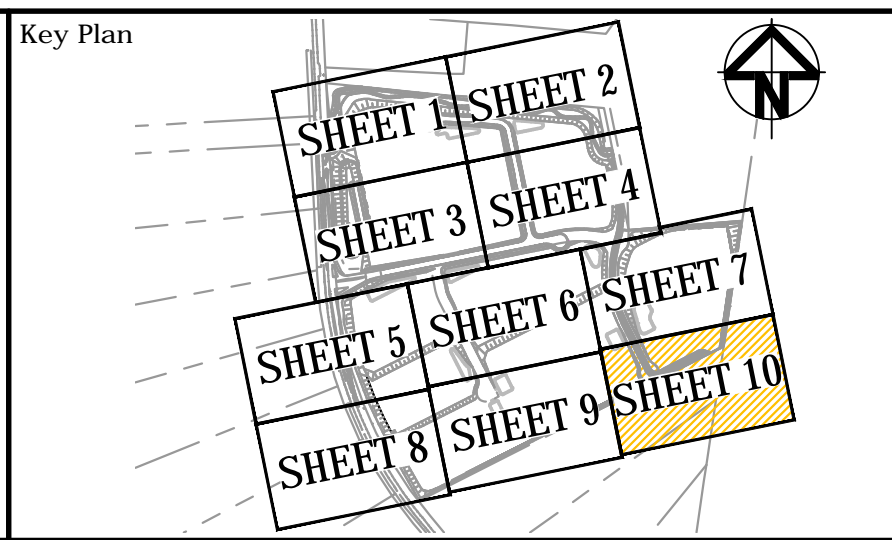
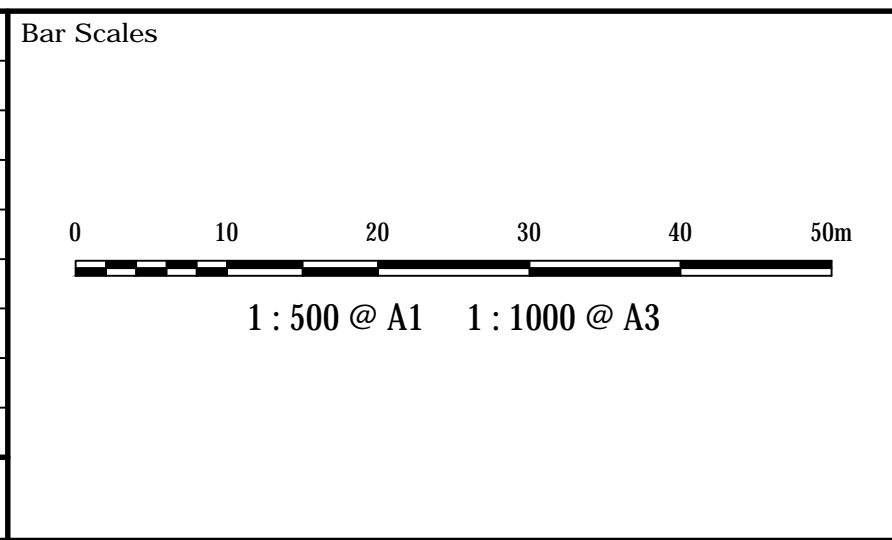
Civil Engineers and Project Managers		
at&i		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1117	Issue C



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

C	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



Scales	1:500	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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			

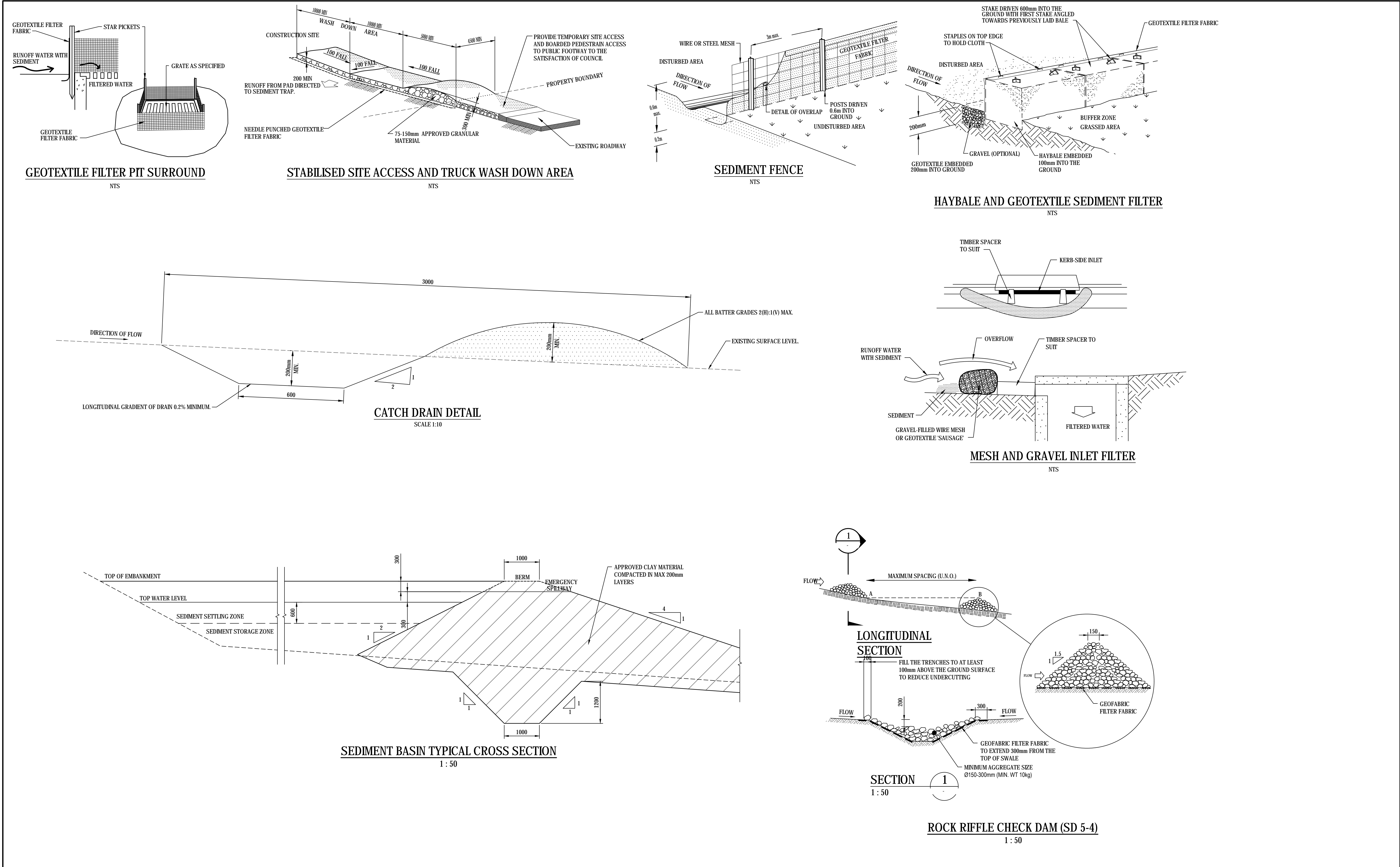
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 10

Civil Engineers and Project Managers

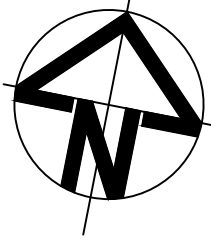
at&l

Level 7, 153 Walker Street
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Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1119	Issue C

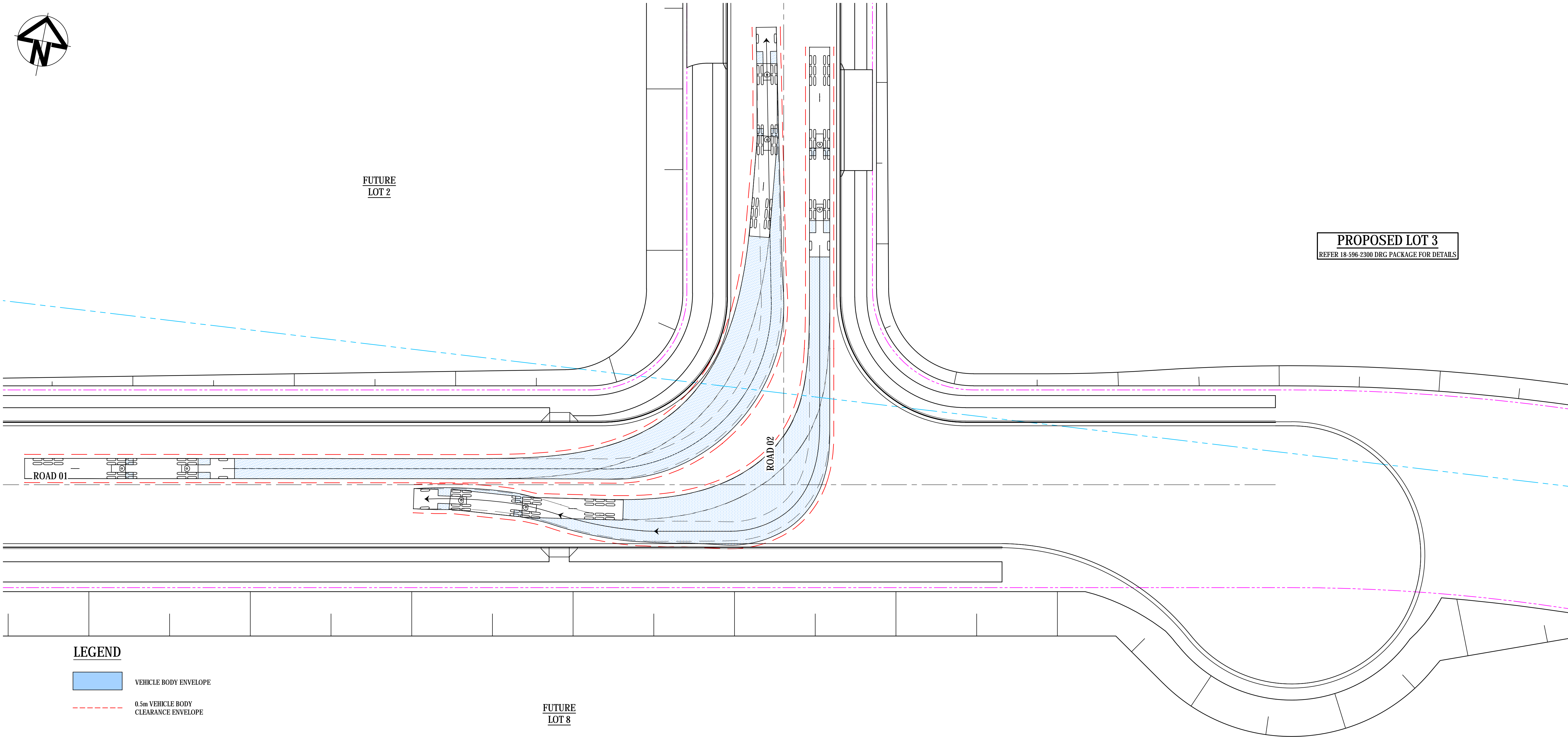


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FUTURE
LOT 2

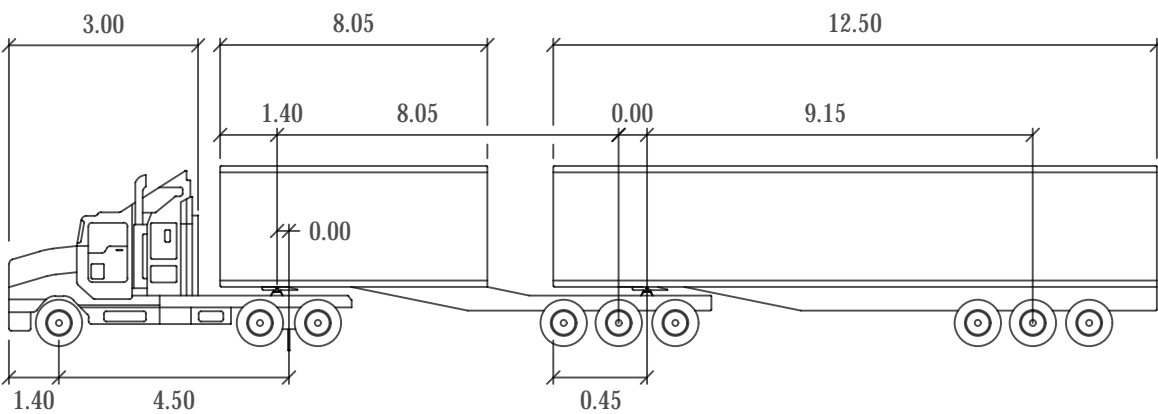
PROPOSED LOT 3
REFER 18-596-2300 DRG PACKAGE FOR DETAILS



LEGEND

- VEHICLE BODY ENVELOPE
- 0.5m VEHICLE BODY CLEARANCE ENVELOPE

DESIGN VEHICLE PROFILE



B-DOUBLE 26M

	Tractor Width	: 2.50	Lock to Lock Time	: 6.0
	Trailer Width	: 2.50	Steering Angle	: 23.4
	Tractor Track	: 2.50	Articulating Angle	: 70.0
	Trailer Track	: 2.50		

FUTURE
LOT 8

ALL FINISHED LEVELS SHOWN ARE ±1000mm

B	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
Issue	Description	Date

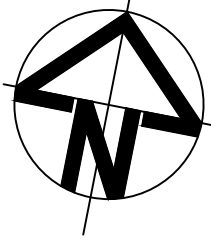
Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3



Scales	1:250	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	VEHICLE TURN PATHS 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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1150	Issue B



FUTURE
LOT 2

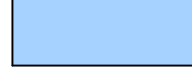

PROPOSED LOT 3
REFER 18-596-2300 DRG PACKAGE FOR DETAILS

ROAD 01

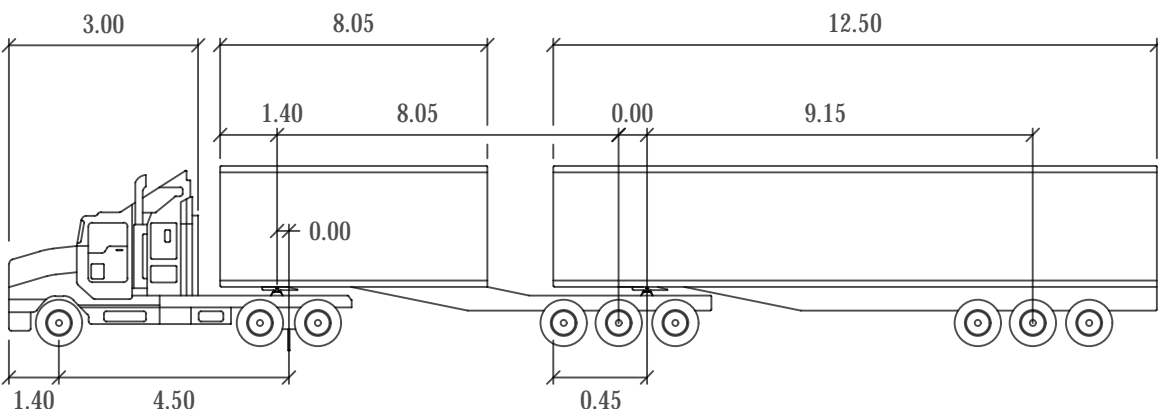
ROAD 02

FUTURE
LOT 8

LEGEND

-  VEHICLE BODY ENVELOPE
-  0.5m VEHICLE BODY
CLEARANCE ENVELOPE

DESIGN VEHICLE PROFILE

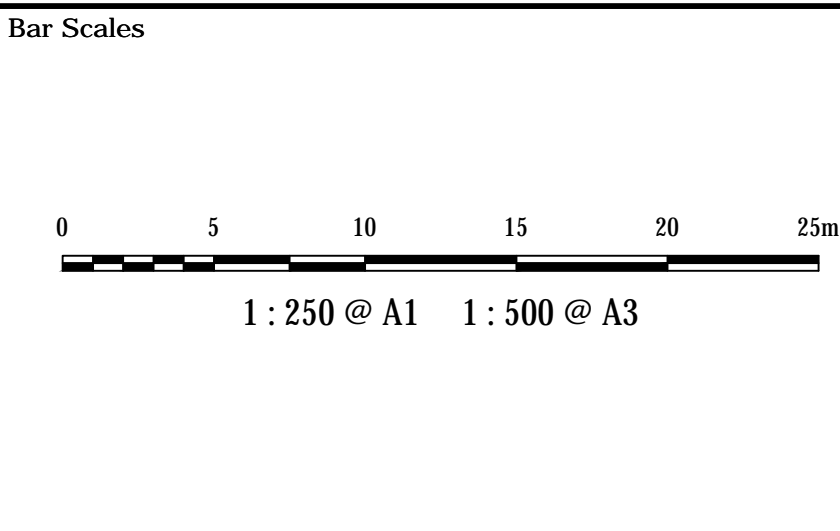


B-DOUBLE 26M

	Tractor Width	Trailer Width	Tractor Track	Trailer Track	Lock to Lock Time	Steering Angle	Articulating Angle
meters	: 2.50	: 2.50	: 2.50	: 2.50	: 6.0	: 23.4	: 70.0


ALL FINISHED LEVELS SHOWN ARE ±1000mm

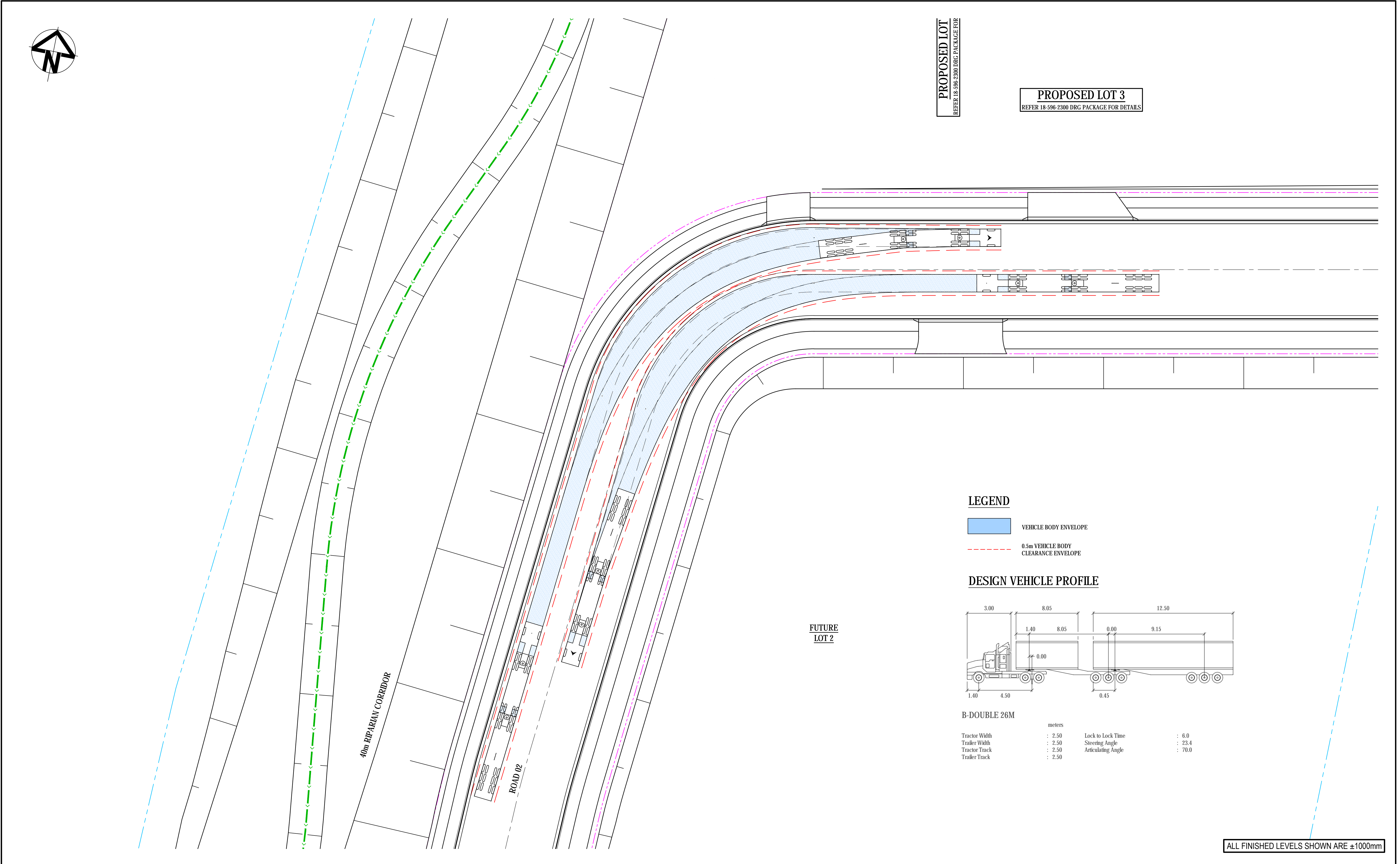
Issue	Description	Date
B	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20



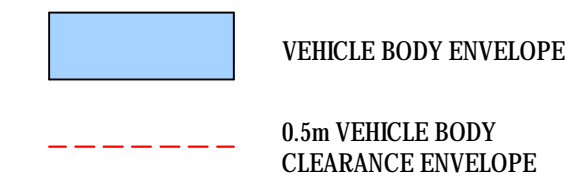
Scales	1:250	Drawn	PDK
Grid	MGA	Designed	PDK
Height Datum	AHD	Checked	AT
		Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	VEHICLE TURN PATHS PLAN SHEET 2

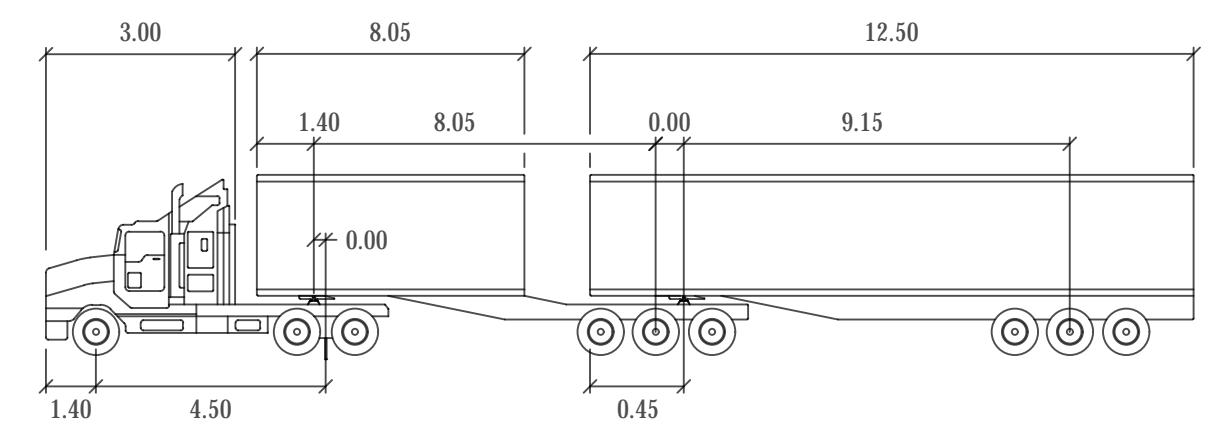
Civil Engineers and Project Managers		
		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1151	Issue B



LEGEND



DESIGN VEHICLE PROFILE



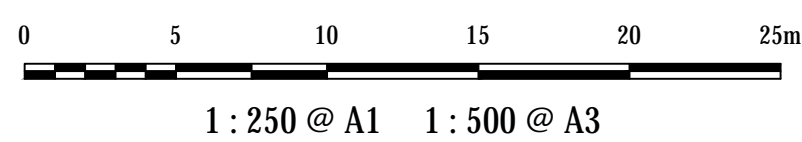
B-DOUBLE 26M

	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

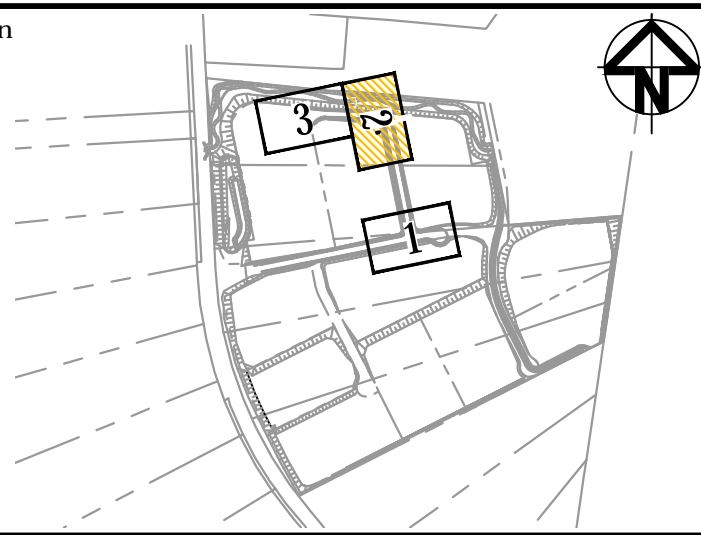
ALL FINISHED LEVELS SHOWN ARE $\pm 1000\text{mm}$

B	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
Issue	Description	Date

Bar Scales



Key Plan



Client	
--------	--



Scales

1:250

Drawn

Designe

PDK

	FDR
0.05	0.05
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8
0.9	0.9
1.0	1.0

Project	
---------	--

As

**MAMRE ROAD,
KEMPS CREEK
STAGE 1**

Title	<p style="text-align: center;">VEHICLE TURN PATHS PLAN SHEET 3</p>
-------	--

Civil Engineers and Project Managers



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

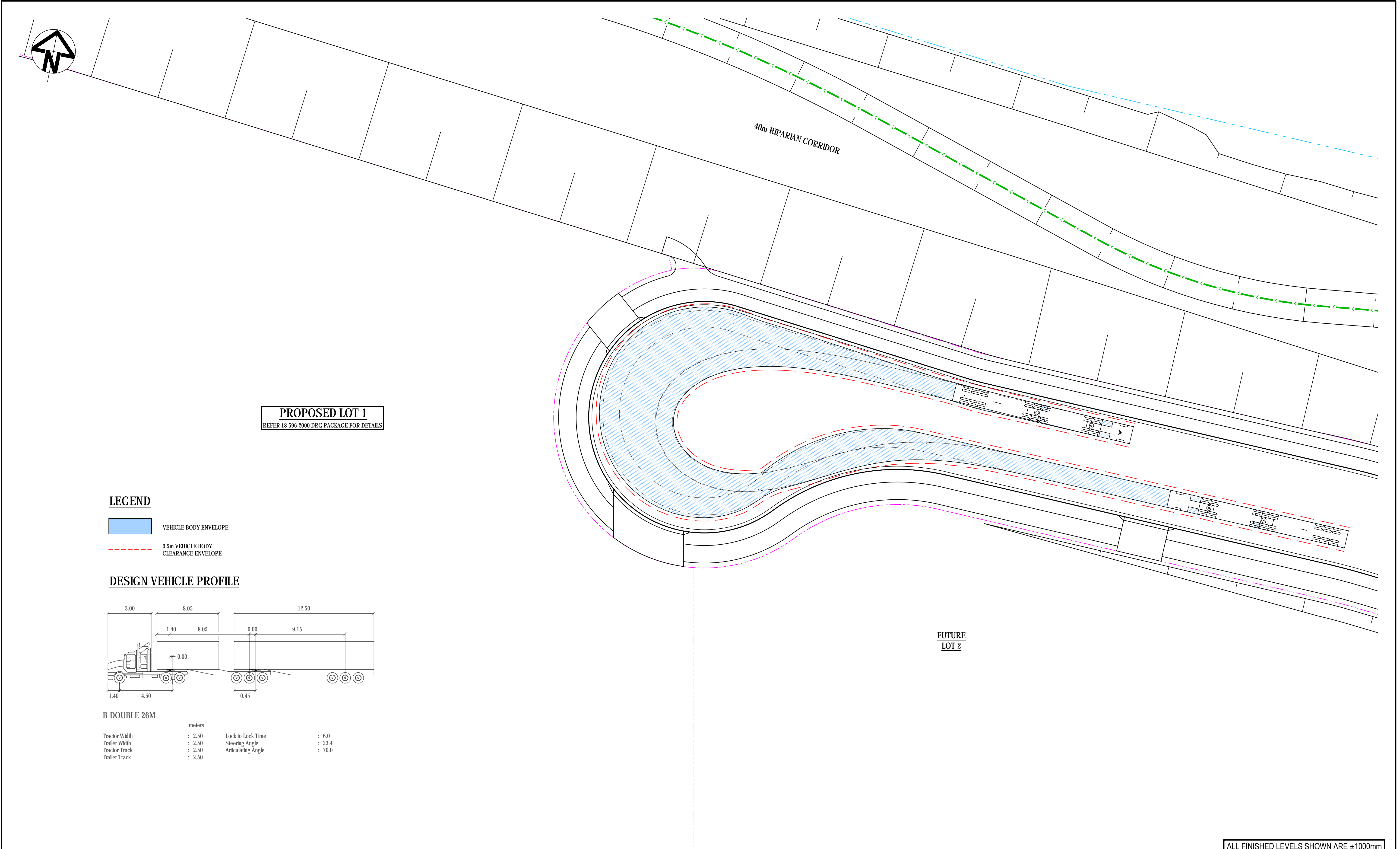
Status	FOR APPROVAL	
	NOT TO BE USED FOR CONSTRUCTION	

Project - Drawing No.
18-596-C1152

A1

Issue
B

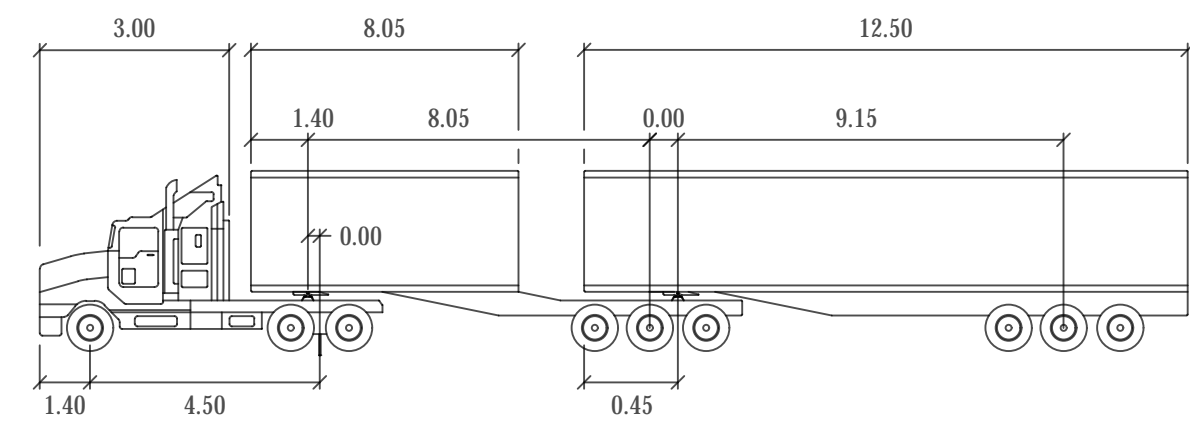
F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\1000_STAGE 1 SSD\18-596-C1152.dwg



LEGEND

- VEHICLE BODY ENVELOPE
- 0.5m VEHICLE BODY CLEARANCE ENVELOPE

DESIGN VEHICLE PROFILE

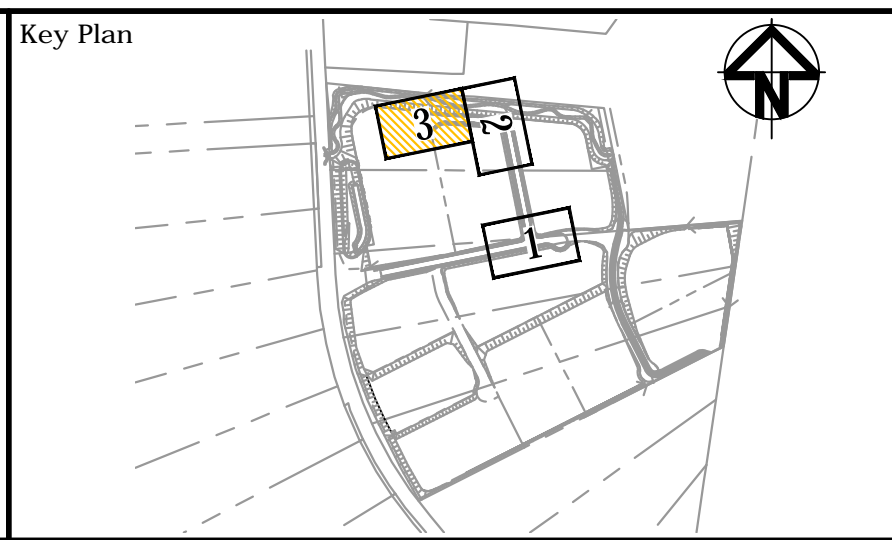
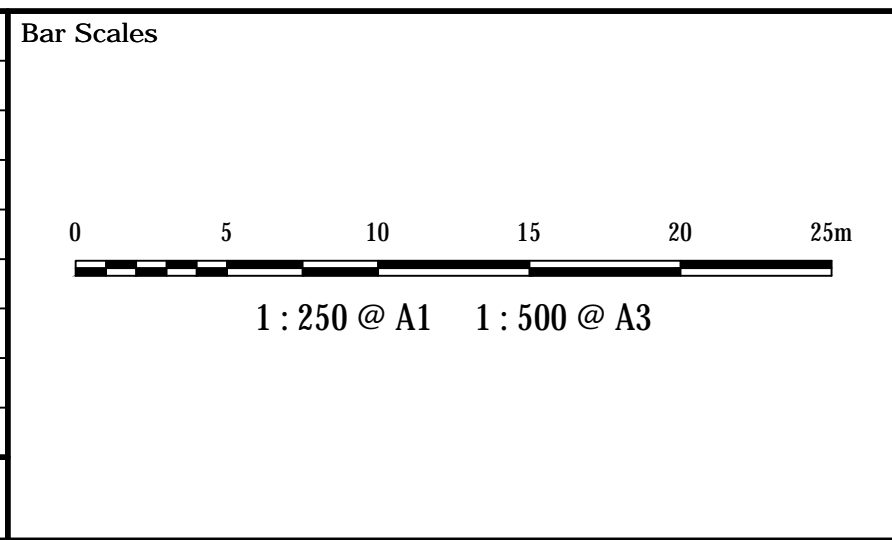


B-DOUBLE 26M

	Tractor Width	: 2.50	Lock to Lock Time	: 6.0
	Trailer Width	: 2.50	Steering Angle	: 23.4
	Tractor Track	: 2.50	Articulating Angle	: 70.0
	Trailer Track	: 2.50		

ALL FINISHED LEVELS SHOWN ARE ±1000mm

B	ISSUED FOR DEVELOPMENT APPLICATION	15-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
Issue	Description	Date



Scales	1:250	Drawn	PDK
		Designed	PDK
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	AM
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1
Title	VEHICLE TURN PATHS PLAN SHEET 4

Civil Engineers and Project Managers		
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C1153	Issue B