

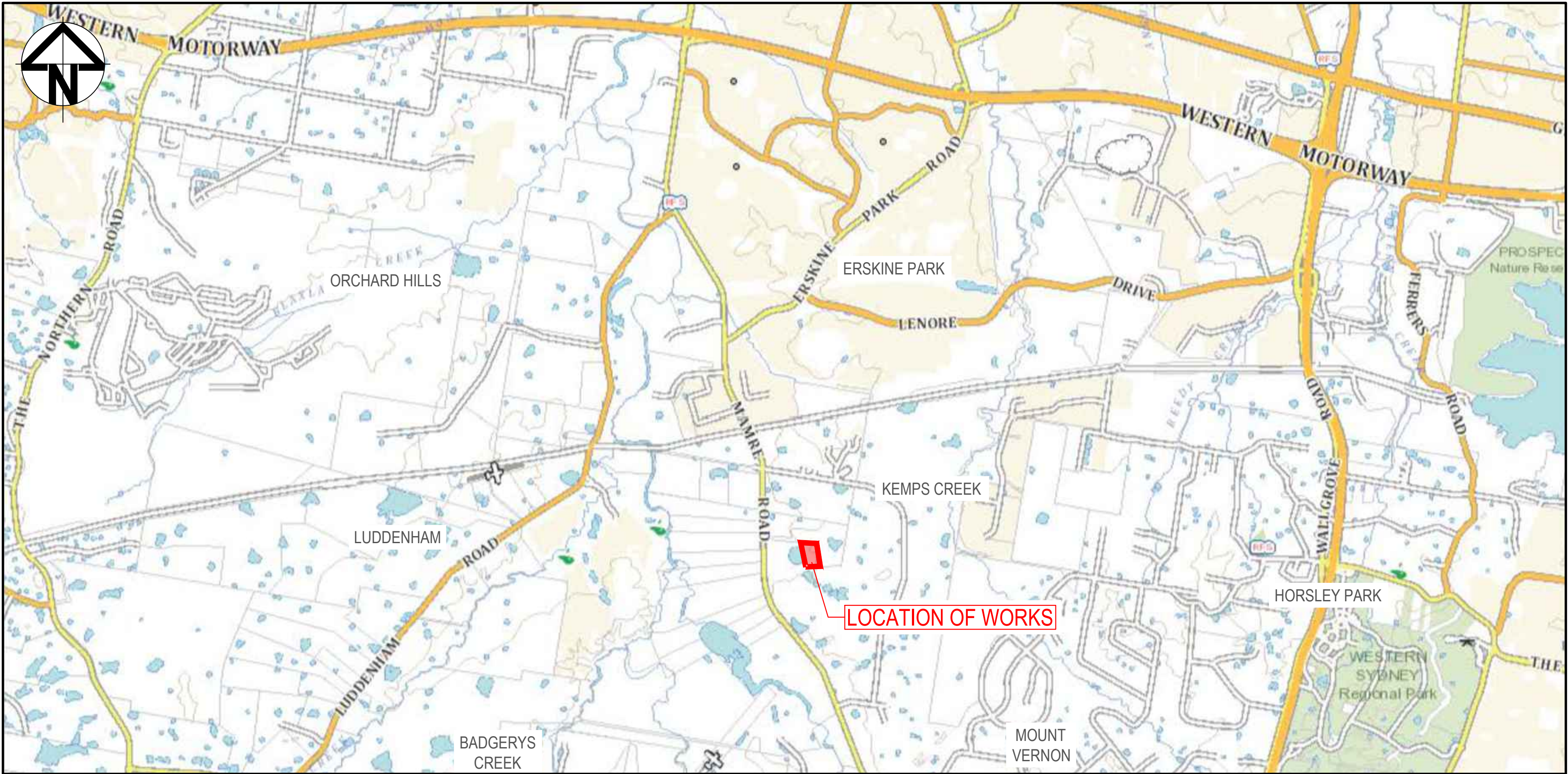
# ASPECT INDUSTRIAL ESTATE

## LOT 3 CIVIL WORKS PACKAGE

### STATE SIGNIFICANT DEVELOPMENT

DRAWING LIST

DRAWING No.	DRAWING TITLE
18-596-C2300	COVER SHEET LOCALITY PLAN AND DRAWING LIST
18-596-C2302	GENERAL NOTES AND LEGENDS
18-596-C2303	GENERAL ARRANGEMENT PLAN
18-596-C2340	SITEWORKS AND STORMWATER DRAINAGE SHEET 1
18-596-C2341	SITEWORKS AND STORMWATER DRAINAGE SHEET 2
18-596-C2342	SITEWORKS AND STORMWATER DRAINAGE SHEET 3
18-596-C2343	SITEWORKS AND STORMWATER DRAINAGE SHEET 4
18-596-C2344	SITEWORKS AND STORMWATER DRAINAGE SHEET 5
18-596-C2350	PAVEMENT PLAN



LOCALITY PLAN  
NOT TO SCALE

		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>	<div>Scales</div> <div>NTS</div>	<div>Drawn</div> <div>KR</div>	Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK LOT 3	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>			
					<div>Designed</div> <div>KR</div>						
					<div>Grid</div> <div>MGA</div>	<div>Checked</div> <div>DS</div>	Title COVER SHEET LOCALITY PLAN AND DRAWING LIST	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 18-596-C2300	A1 Issue E		
					<div>Height Datum</div> <div>AHD</div>	<div>Approved</div> <div>AMcL</div>					
					<div></div>						
E	ISSUED FOR DEVELOPMENT APPLICATION				04-03-22						
D	ISSUED FOR DEVELOPMENT APPLICATION				23-02-22						
C	ISSUED FOR DEVELOPMENT APPLICATION	02-02-22									
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20									
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20									
Issue	Description	Date									



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 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) AND COMPACTED TO MINIMUM 98% 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% 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 CONSIDERED. SUBJECT TO 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 IN 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 MUST 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.

1. 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.

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
- N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N  
 R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302  
 SL DENOTES HARD-DRAWN WIRE REINFORCING FIBRO TO AS 1304
- NUMBER OF BARS IN GROUP      BAR GRADE AND TYPE
- 17 N   20 250
- NOMINAL BAR SIZE in mm      SPACING in mm
- THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.
8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa N.O IN REINFORCED CONCRETE NOTES.

11. KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).

EXPANSION JOINTS (E.J.) TO BE FORMED FROM 10cm COMPRESSIBLE CORP FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITTS, 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.

WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

BROOM FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

IN THE REPLACEMENT OF KERB AND GUTTER :-  
IF REQUIRED EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

STORMWATER DESIGN CRITERIA:

(A) AVERAGE RECURRENT INTERVAL:

1-100 YEARS: MAJOR STORM (OVERLAND FLOW)

120 YEARS: MINOR STORM (PIPED NETWORK)

(B) RAINFALL INTENSITIES:

TIME OF CONCENTRATION/5 MINUTES

1-100 YEARS= 219 mm/hr

120 YEARS= 187 mm/hr

(C) RUNOFF COEFFICIENTS:

ROOF AREAS: C 100 =1.0

EXTERNAL PAVEMENTS: C 100 =1.0

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

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

4. EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.

5. 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.

6. 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)

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

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

9. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UN-SLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

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

11. GRATES AND COVERS SHALL CONFORM TO AS 3996 AND PENRITH CITY COUNCIL CONSTRUCTION SPECIFICATIONS.

12. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

13. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED, DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDING ENGINEER FOR FURTHER DIRECTIONS.

14. ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS & SPECIFICATIONS, UNLESS APPROVED BY THE SUPERINTENDING ENGINEER OF PENRITH CITY COUNCIL. IF APPROVED AND IN ADDITION TO THE SPECIFICATION:

A. ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT AUSTRALIAN STANDARDS (AS3600, AS3996).

B. ALL PRECAST PITS TO BE FOUND ON CONCRETE BLINDING LAYER WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA UP TO 3.0M DEPTH TO INVERT AND 150KPA FROM 3.0M TO 6.0M DEPTH TO INVERT (MINIMUM 100MM THICK 25MPa OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED).

C. PRE-CAST STORMWATER PITS ARE TO BE CUSTOM MADE WITH OPENINGS WITHIN +50MM OD OF PIPE, HEIGHTS AND PIPE PENETRATIONS DURING MANUFACTURE. ANY ADDITIONAL PENETRATIONS SHALL BE CORE DRILLED. DEMOLITION SAWS ARE NOT TO BE USED IN ANY CIRCUMSTANCES.

D. SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH 600MM PIT INSTALLATION AND JOINTING PIPES TO PITS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

E. ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDING / 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. 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 2004.
  - 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.

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.

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (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.

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. 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, WHICHEVER 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 AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH 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 NO SEDIMENT CONSULTANT AND PROVIDED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, PENRITH CITY COUNCIL'S SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGE'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION. LANDCOM, (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK"). VOLUME 1 AND VOLUME 2.

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

LEGEND:	
	EXISTING BOUNDARY
	PROPOSED BOUNDARY
	PROPOSED RETAINING WALL
	PROPOSED CONTOUR
	PROPOSED FENCE
	PROPOSED BATTER
	TEMPORARY BATTER 1(V):4(H)
	PERMANENT BATTER 1(V):5(H)
	U.N.O
	PROPOSED KERB EDGING TO PCC SPECIFICATION
	PROPOSED KERB EDGING INTEGRAL TO CONCRETE SLAB TO PCC SPECIFICATION
	PROPOSED KERB AND GUTTER TO PCC SPECIFICATION
	PROPOSED INTEGRAL KERB AND GUTTER TO PCC SPECIFICATION
	PROPOSED 900mm WIDE DISH DRAIN TO PCC SPECIFICATION
	PROPOSED SAFETY BARRIER
	DRIVEWAY CROSSOVER CONSTRUCTED AS PART OF INFRASTRUCTURE
	PROPOSED KERB RAMP
	PROPOSED CATCH DRAIN
	PROPOSED STORMWATER JUNCTION PIT
	PROPOSED STORMWATER JUNCTION PIT
	PROPOSED STORMWATER KERB INLET PIT WITH INTEL
	PROPOSED STORMWATER LINE
	PROPOSED UPVC ROOF WATER DRAINAGE LINE (MAX Ø300mm)
	PROPOSED GRATED DRAIN 250mm Class 'D' GRATE
	STORMWATER OVERLAND FLOWPATH

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 & 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.

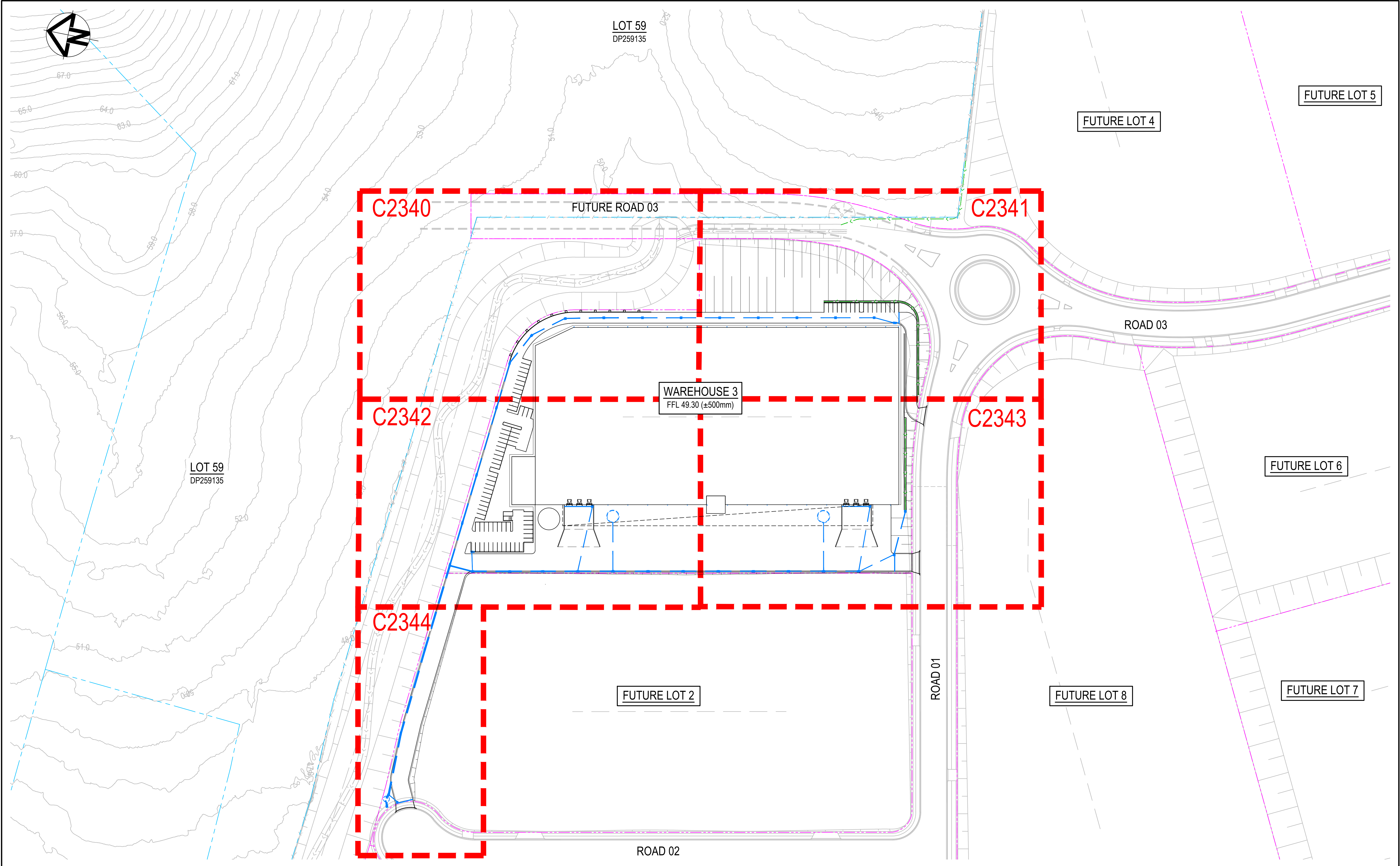
SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. IF NOT ABLE TO BE SO LOCATED, SERVICES HAVE BEEN PLOTTED FROM THE RECORDS OF RELEVANT AUTHORITIES WHERE AVAILABLE AND HAVE BEEN NOTED ACCORDINGLY ON THE PLAN. WHERE SUCH RECORDS DO NOT EXIST OR ARE INADEQUATE A NOTATION HAS BEEN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

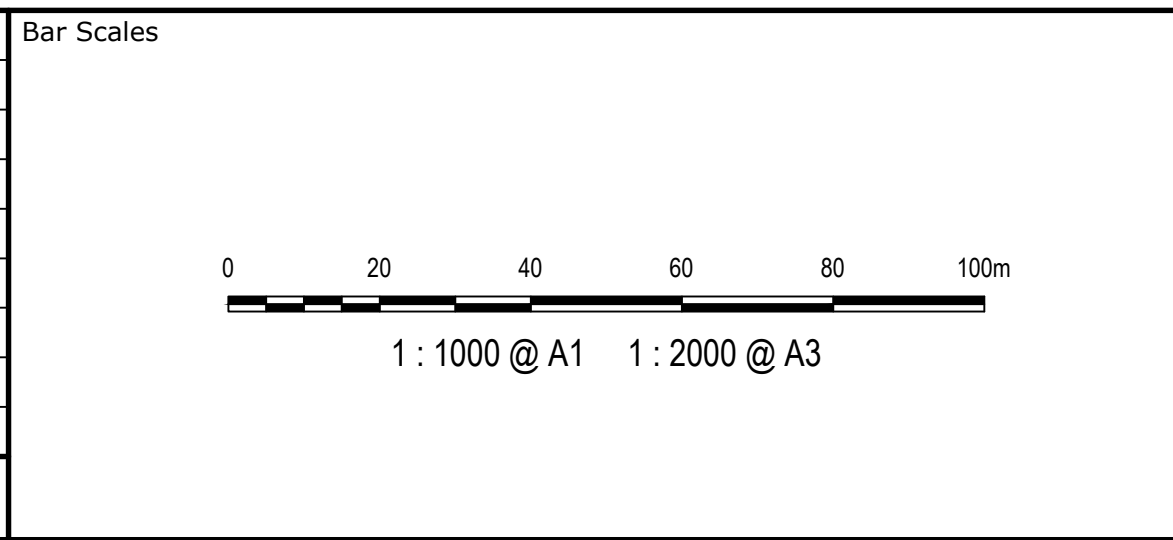
1. IF REQUIRED ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

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E	ISSUED FOR DEVELOPMENT APPLICATION	04-03-22
D	ISSUED FOR DEVELOPMENT APPLICATION	23-02-22
C	ISSUED FOR DEVELOPMENT APPLICATION	02-02-22
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

Grid MGA

Height Datum AHD

Drawn KR

Designed KR

Checked DS

Approved AMcL

Project

ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
LOT 3

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

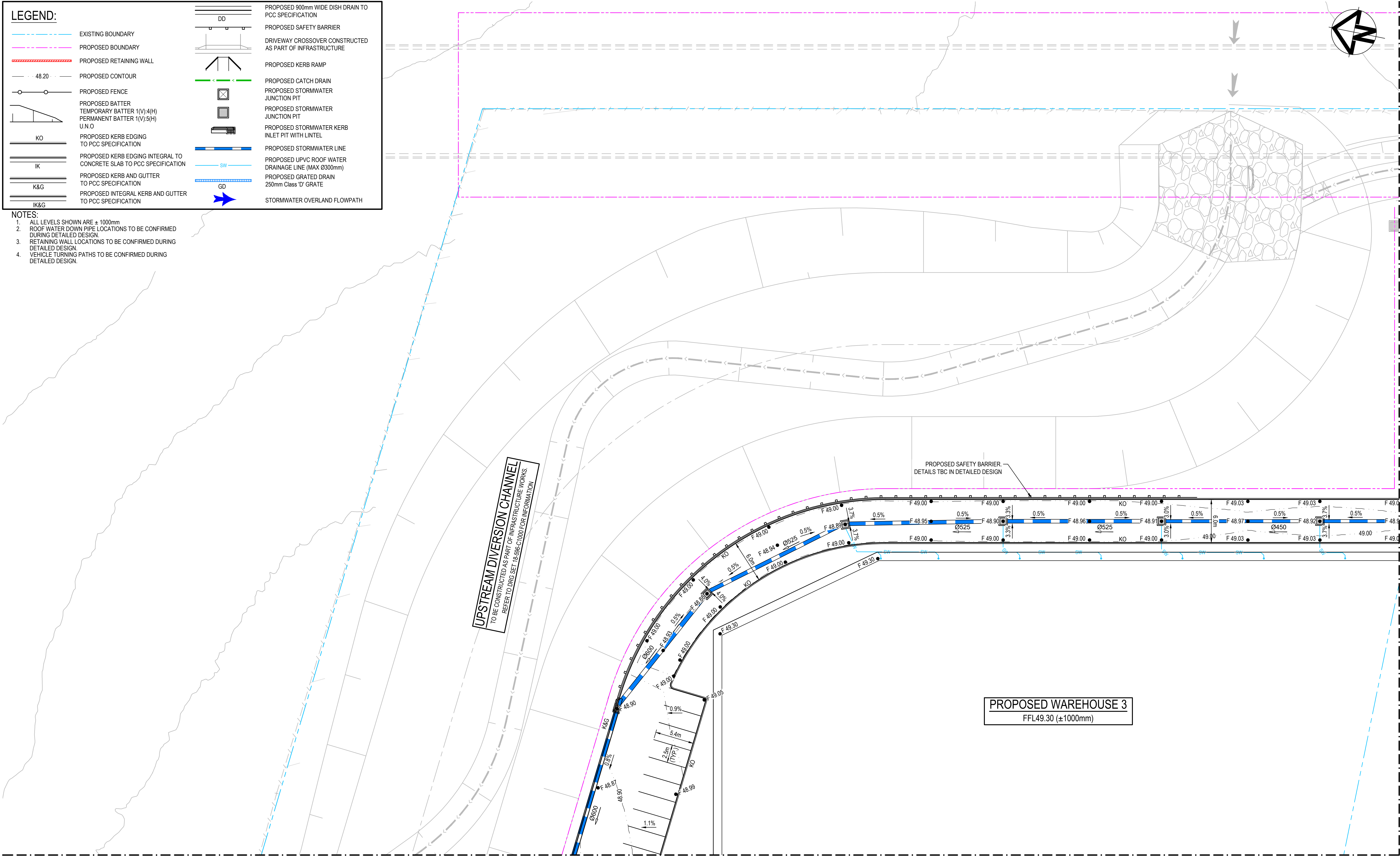
FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.  
18-596-C2303

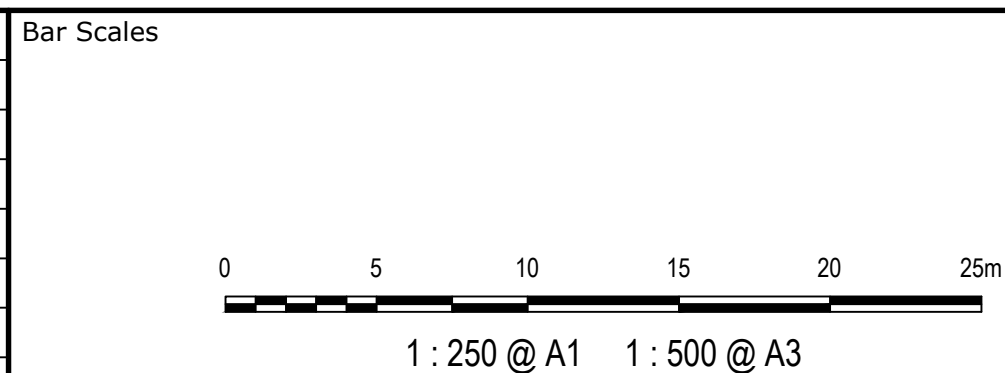
Issue

A1  
E





E	ISSUED FOR DEVELOPMENT APPLICATION	04-03-22
D	ISSUED FOR DEVELOPMENT APPLICATION	23-02-22
C	ISSUED FOR DEVELOPMENT APPLICATION	02-02-22
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20
Issue	Description	Date



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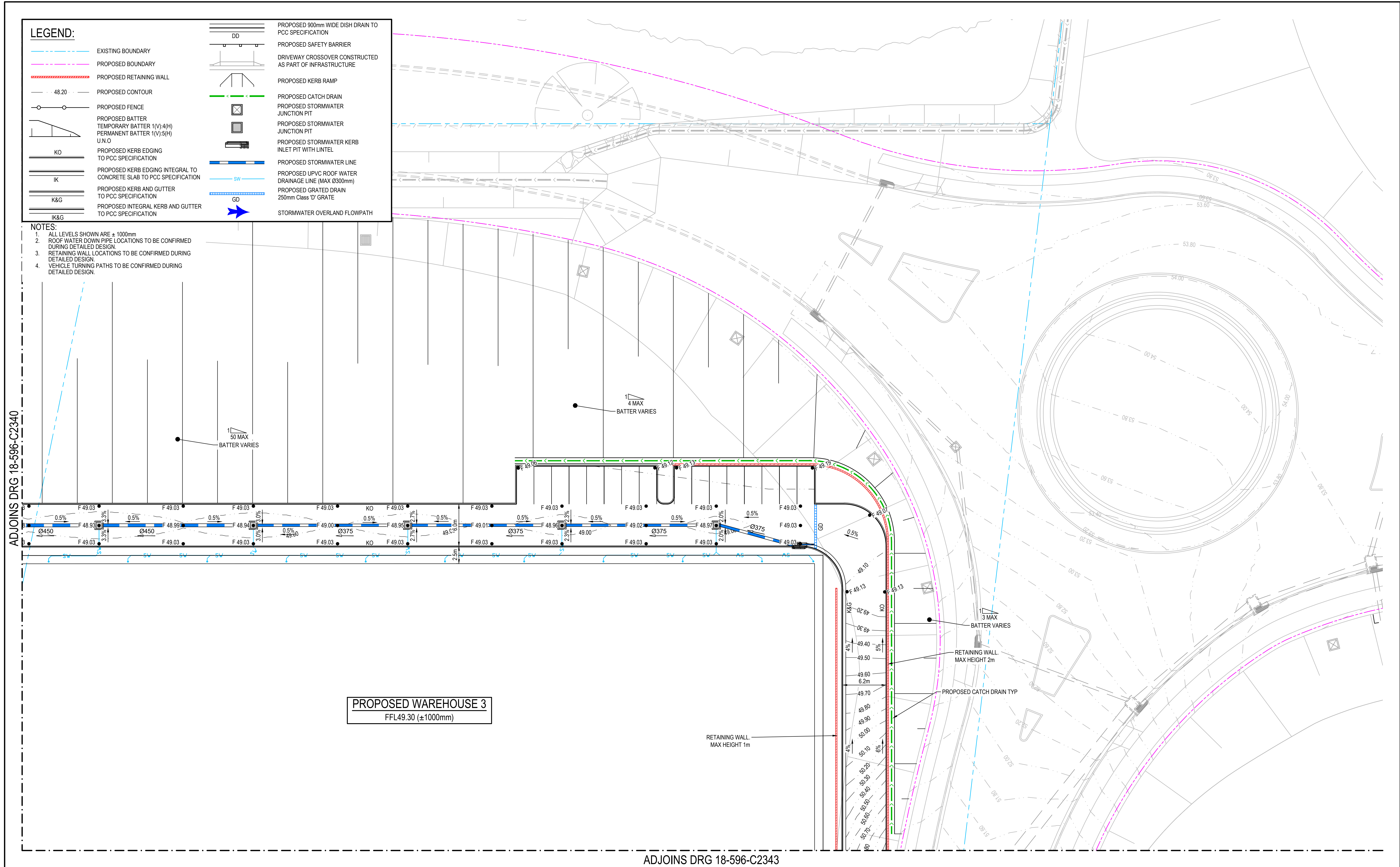


Scales	1:250	Drawn	KR
		Designed	KR
Grid	MGA	Checked	DS
Height Datum	AHD	Approved	AMcL

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK LOT 3
Title	SITWORKS AND STORMWATER DRAINAGE 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	A1
Project - Drawing No.	18-596-C2340	Issue
		E





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								1:250		KR		ASPECT INDUSTRIAL ESTATE		Level 7, 153 Walker Street	
										Designed		MAMRE ROAD,		North Sydney NSW 2060	
								Grid		Checked		KEMPS CREEK		ABN 96 130 882 405	
								Height Datum		Approved		LOT 3		Tel: 02 9439 1777	
										AMcL		SITEWORKS		Fax: 02 9923 1055	
												AND STORMWATER DRAINAGE		www.atl.net.au	
												SHEET 2		Info@atl.net.au	
												Title		Status	
														FOR APPROVAL	
														NOT TO BE USED FOR CONSTRUCTION	
														18-596-C2341	
														Issue	
														E	

100mm on Original

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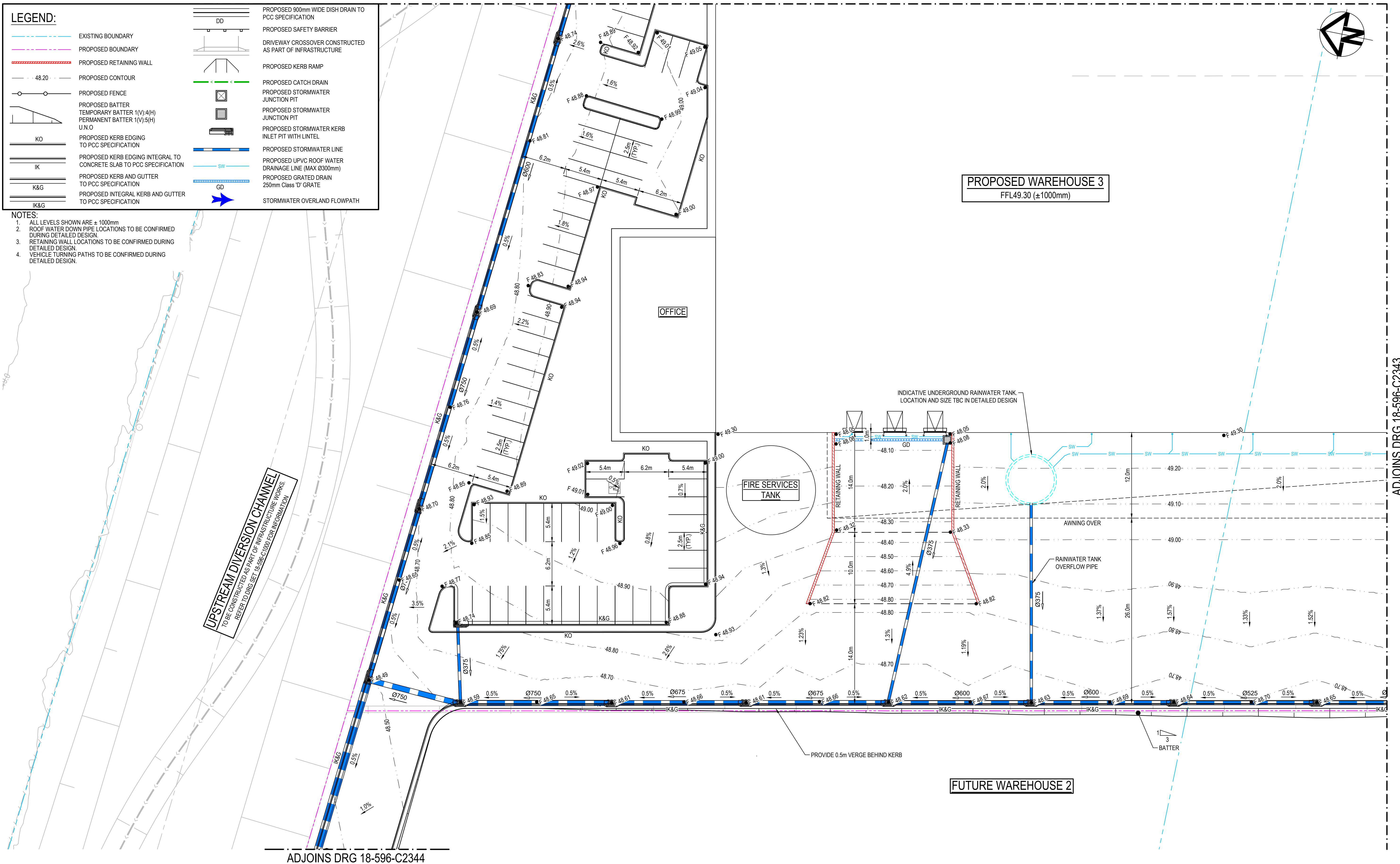


**LEGEND:**

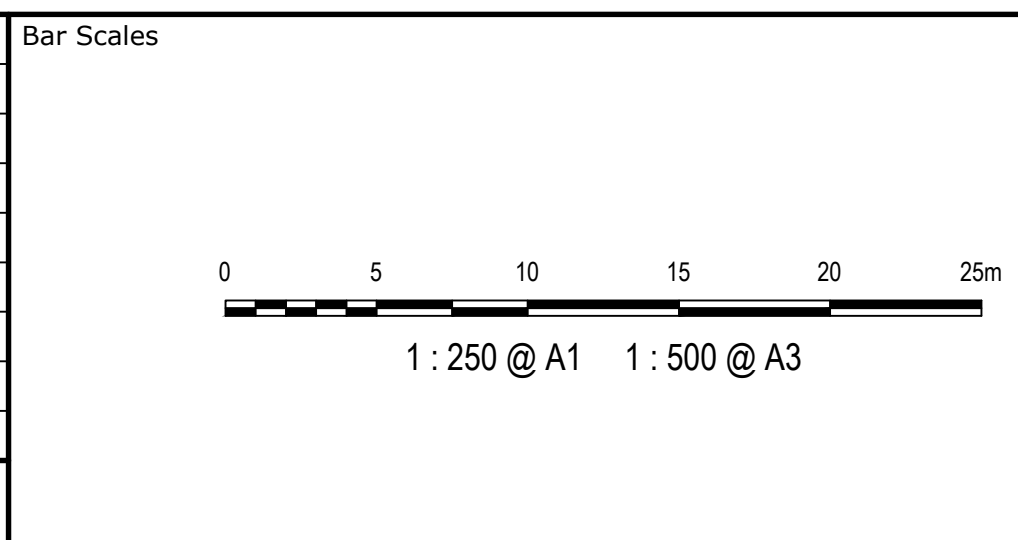
	EXISTING BOUNDARY		PROPOSED 900mm WIDE DISH DRAIN TO PCC SPECIFICATION
	PROPOSED BOUNDARY		PROPOSED SAFETY BARRIER
	PROPOSED RETAINING WALL		DRIVEWAY CROSSOVER CONSTRUCTED AS PART OF INFRASTRUCTURE
	PROPOSED CONTOUR		PROPOSED KERB RAMP
	PROPOSED FENCE		PROPOSED CATCH DRAIN
	PROPOSED BATTER		PROPOSED STORMWATER JUNCTION PIT
	TEMPORARY BATTER 1(V)/4(H)		PROPOSED STORMWATER JUNCTION PIT
	PERMANENT BATTER 1(V)/5(H)		PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
	U.N.O.		PROPOSED STORMWATER LINE
	PROPOSED KERB EDGING TO PCC SPECIFICATION		PROPOSED UPVC ROOF WATER DRAINAGE LINE (MAX Ø300mm)
	PROPOSED KERB EDGING INTEGRAL TO CONCRETE SLAB TO PCC SPECIFICATION		PROPOSED GRATED DRAIN 250mm Class 'D' GRATE
	PROPOSED KERB AND GUTTER TO PCC SPECIFICATION		STORMWATER OVERLAND FLOWPATH
	PROPOSED INTEGRAL KERB AND GUTTER TO PCC SPECIFICATION		

- NOTES:**
- ALL LEVELS SHOWN ARE  $\pm 1000\text{mm}$
  - ROOF WATER DOWN PIPE LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
  - RETAINING WALL LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
  - VEHICLE TURNING PATHS TO BE CONFIRMED DURING DETAILED DESIGN.

UPSTREAM DIVERSION CHANNEL  
TO BE CONSTRUCTED AS PART OF INFRASTRUCTURE WORKS  
REFER TO DRG SET 18-596-C100 FOR INFORMATION



Issue	Description	Date
E	ISSUED FOR DEVELOPMENT APPLICATION	04-03-22
D	ISSUED FOR DEVELOPMENT APPLICATION	23-02-22
C	ISSUED FOR DEVELOPMENT APPLICATION	02-02-22
B	ISSUED FOR DEVELOPMENT APPLICATION	12-10-20
A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20



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Client

Scales

1:250

Grid MGA

Height Datum AHD

Drawn KR

Designed KR

Checked DS

Approved AMcL

Project

ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
LOT 3

Title

SITWORKS  
AND STORMWATER DRAINAGE  
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  
NOT TO BE USED FOR CONSTRUCTION

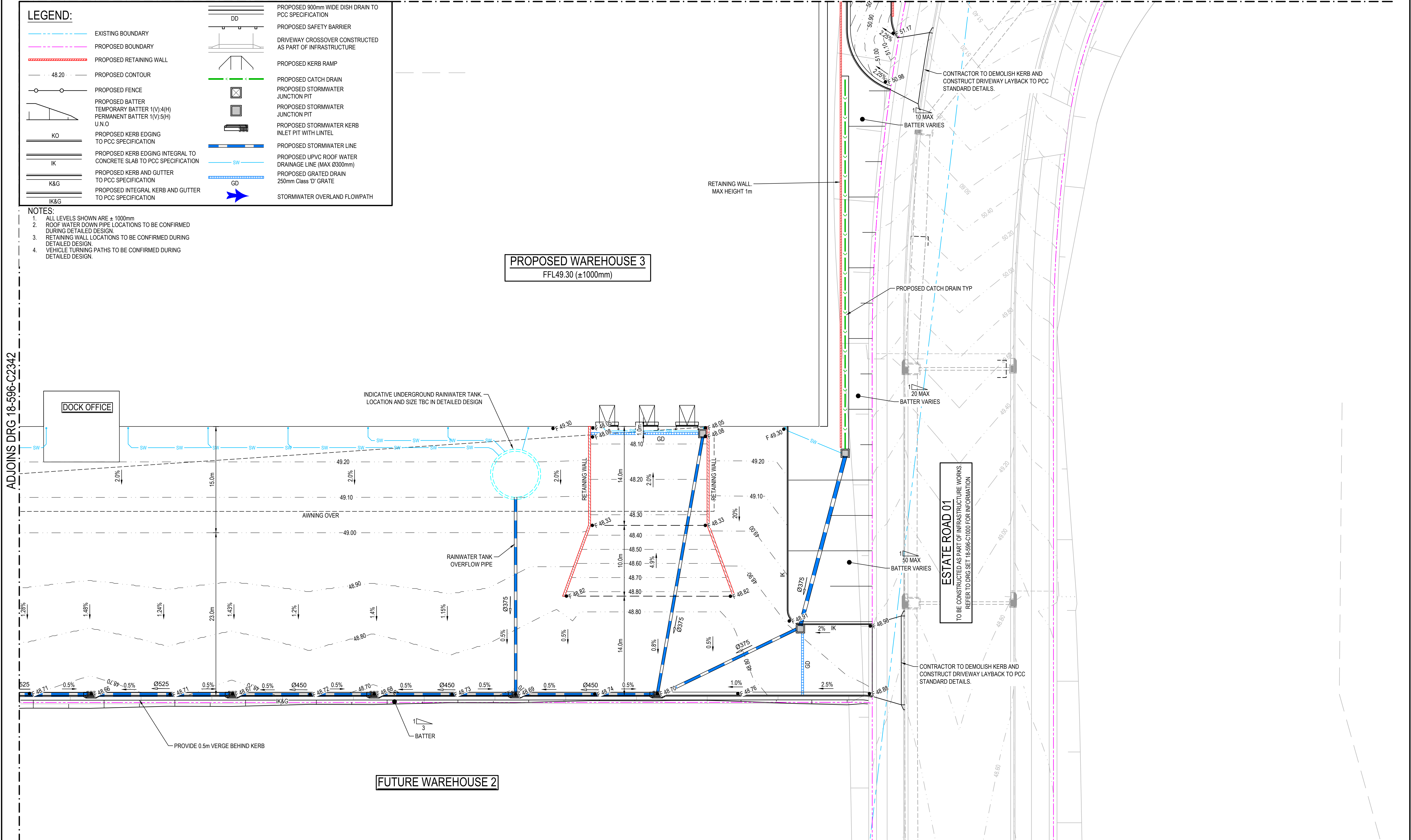
Project - Drawing No.

18-596-C2342

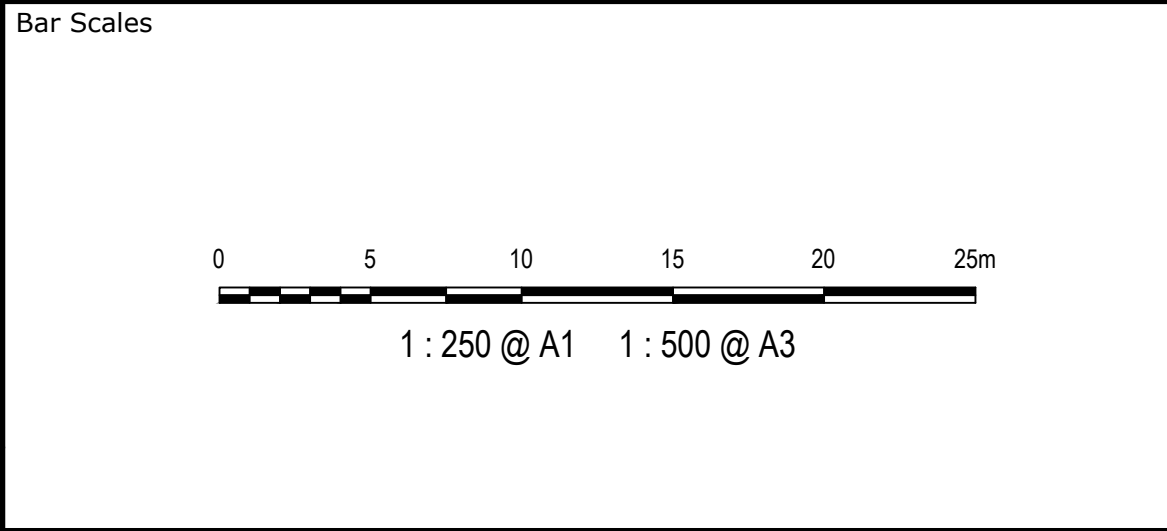
Issue

E





Issue	Description	Date
E	ISSUED FOR DEVELOPMENT APPLICATION	04-03-22
D	ISSUED FOR DEVELOPMENT APPLICATION	23-02-22
C	ISSUED FOR DEVELOPMENT APPLICATION	02-02-22
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A	ISSUED FOR DEVELOPMENT APPLICATION	15-05-20



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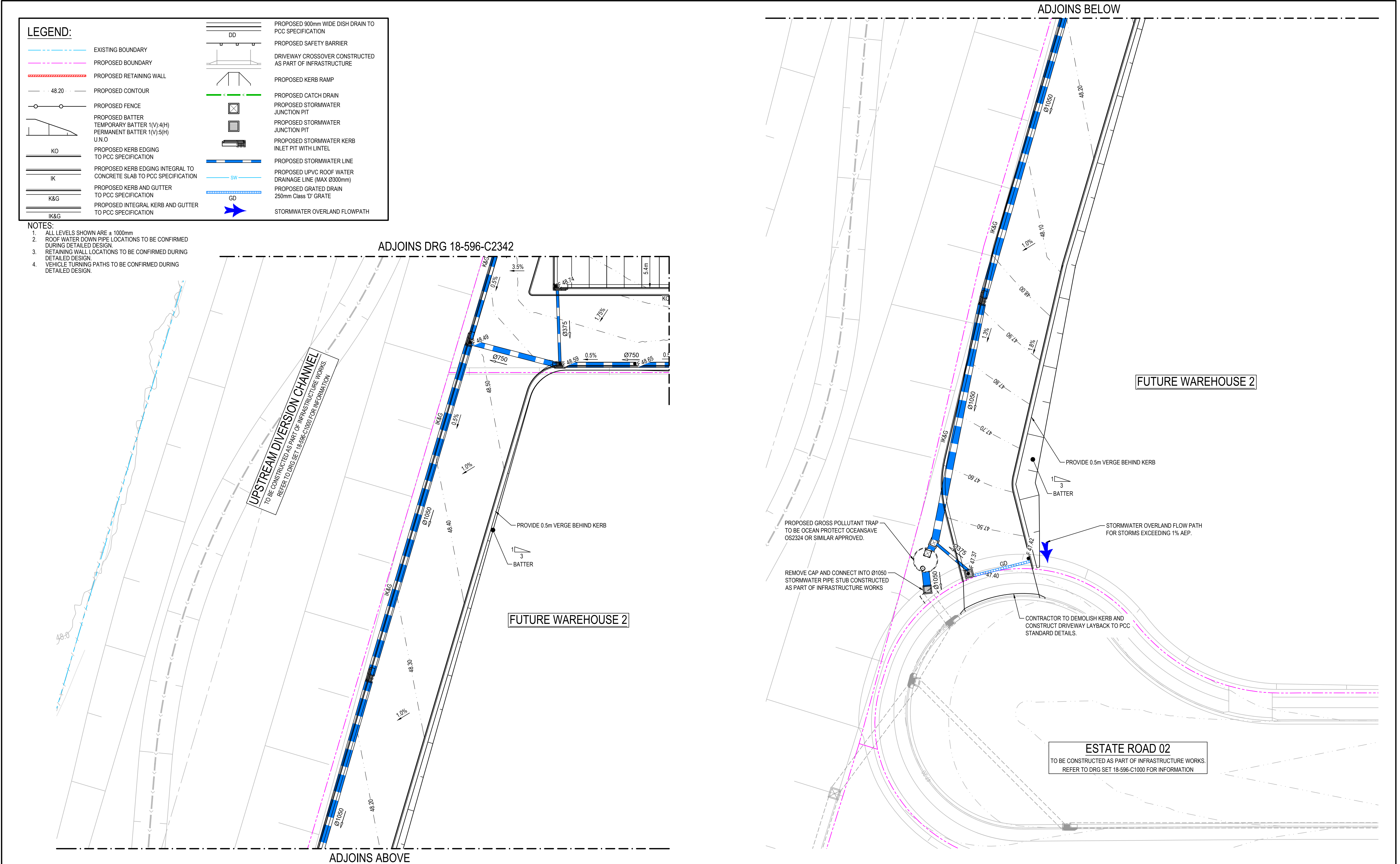


Scales	1:250
Grid	MGA
Height Datum	AHD
Drawn	KR
Designed	KR
Checked	DS
Approved	AMcL

Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK LOT 3
Title	SITWORKS AND STORMWATER DRAINAGE SHEET 4

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-C2343	Issue E



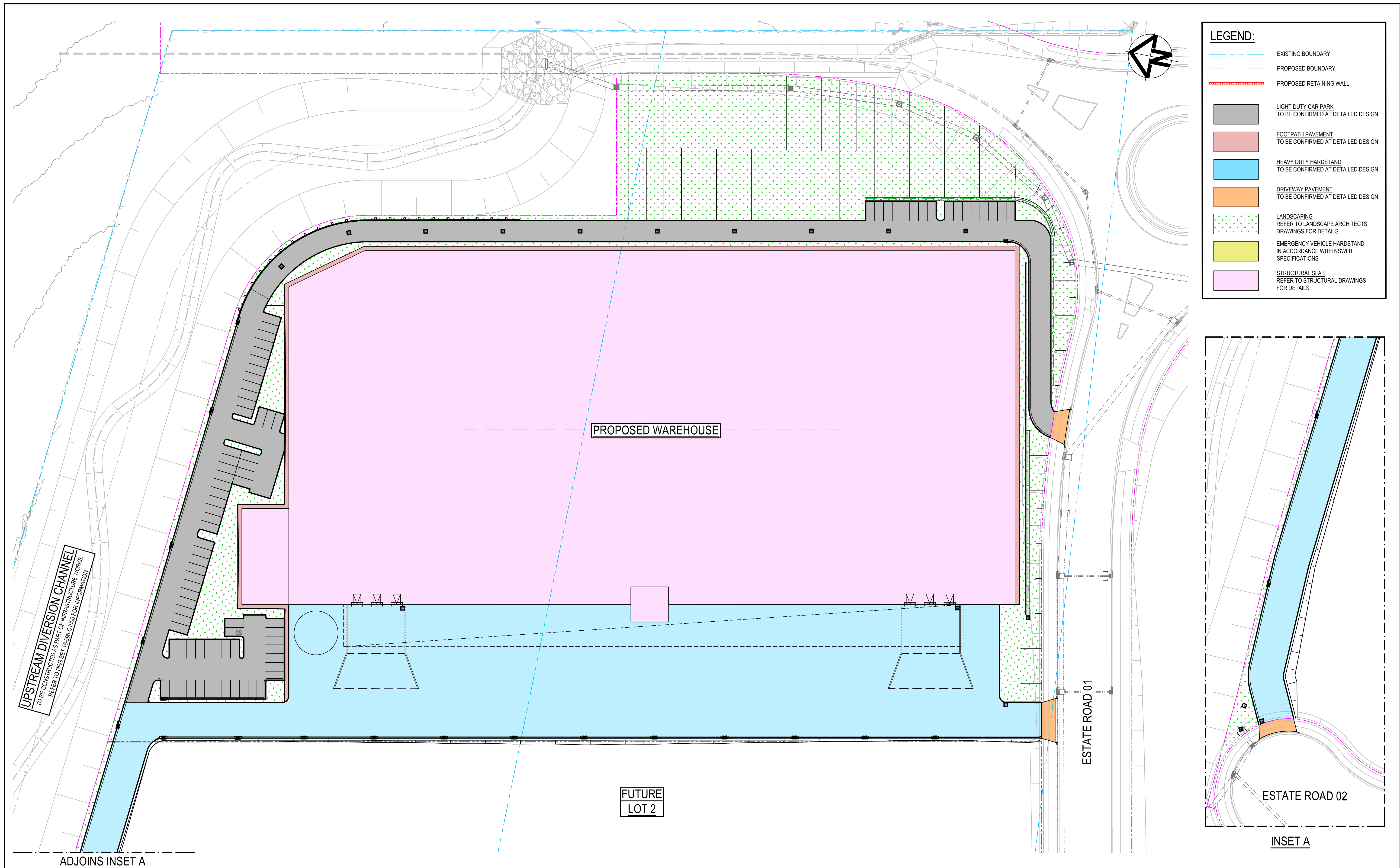


		Bar Scales		<p>THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&amp;L</p>	<p>Client</p> 	Scales		Drawn		<p>Project</p> <p>ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK LOT 3</p>	Civil Engineers and Project Managers	
		0 5 10 15 20 25m				1:250		KR			 <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>	
		1:250 @ A1 1:500 @ A3				MGA		Designed KR				
						Height Datum AHD		Checked DS				
B ISSUED FOR DEVELOPMENT APPLICATION		04-03-22				Approved AMcL		Title		Status		
A ISSUED FOR DEVELOPMENT APPLICATION		02-02-22						SITWORKS AND STORMWATER DRAINAGE SHEET 5		FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		A1
Issue Description Date										Project - Drawing No. 18-596-C2344		Issue B

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\SSD\2300\_Lot 3 SSD\_MOD 1\18-596-C2344.dwg





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							1:500		KR		ASPECT INDUSTRIAL ESTATE		Level 7, 153 Walker Street	
									KR		MAMRE ROAD,		North Sydney NSW 2060	
									DS		KEMPS CREEK		ABN 96 130 882 405	
									AMcL		LOT 3		Tel: 02 9439 1777	
													Fax: 02 9923 1055	
													www.atl.net.au	
													info@atl.net.au	
E	ISSUED FOR DEVELOPMENT APPLICATION		04-03-22		<div><p>1 : 500 @ A1    1 : 1000 @ A3</p></div>		Grid		Checked		Title		Status	
D	ISSUED FOR DEVELOPMENT APPLICATION		23-02-22				MGA		DS		PAVEMENT PLAN		FOR APPROVAL	
C	ISSUED FOR DEVELOPMENT APPLICATION		02-02-22				AHD		Approved				NOT TO BE USED FOR CONSTRUCTION	
B	ISSUED FOR DEVELOPMENT APPLICATION		12-10-20										Project - Drawing No.	
A	ISSUED FOR DEVELOPMENT APPLICATION		15-05-20										18-596-C2350	
Issue	Description		Date								Issue			
												E		