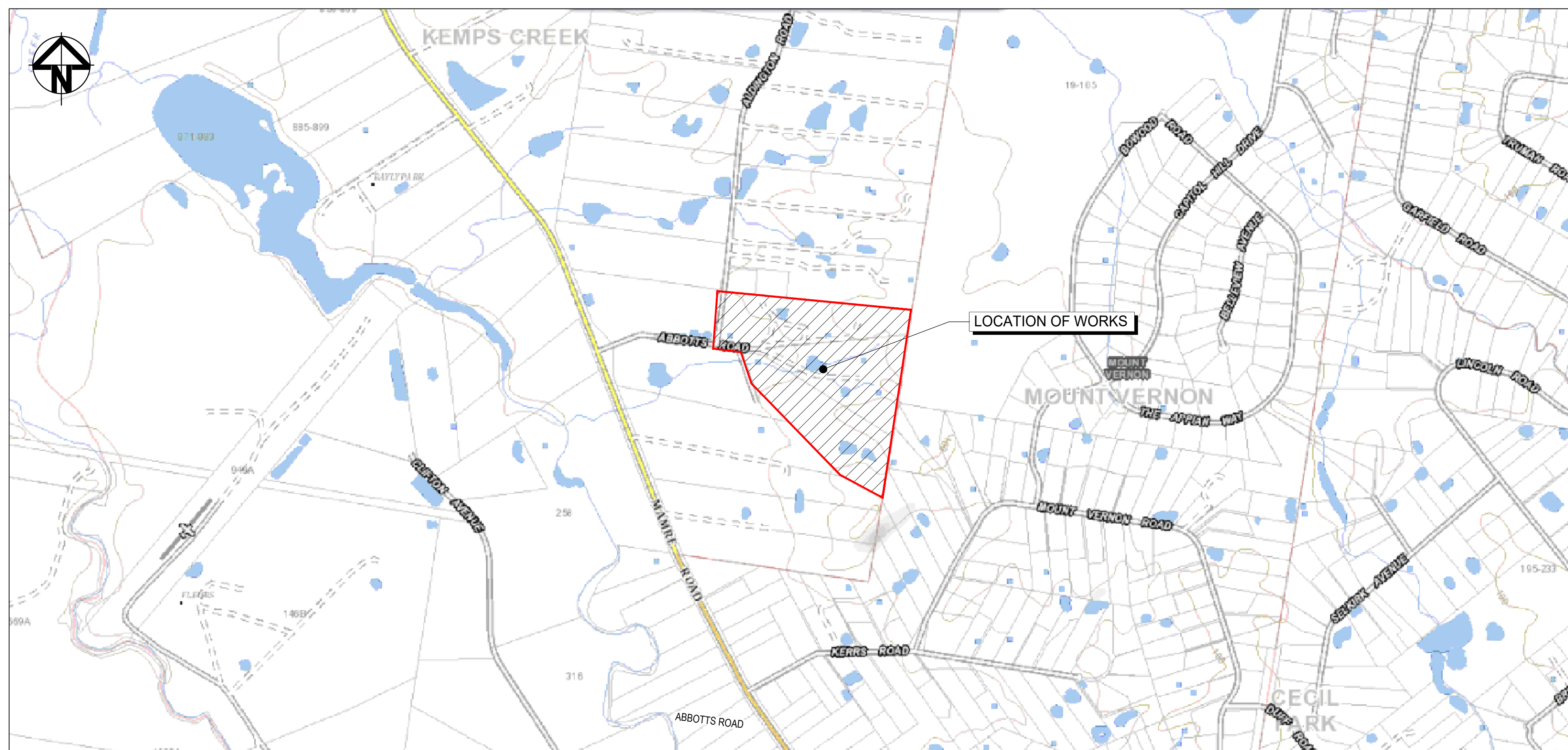






# WESTLINK KEMPS CREEK

## CIVIL WORKS PACKAGE - INFRASTRUCTURE WORKS STATE SIGNIFICANT DEVELOPMENT APPLICATION RTS-SSD-9138102






LOCALITY PLAN  
NTS

			Bar Scales				Client				<table><tr><td rowspan="2">Scales N.T.S.</td><td>Drawn</td><td>LM</td></tr><tr><td>Designed</td><td>LM</td></tr><tr><td>Grid MGA2020</td><td>Checked</td><td>AT</td></tr><tr><td>Height Datum AHD</td><td>Approved</td><td></td></tr></table>	Scales N.T.S.	Drawn	LM	Designed	LM	Grid MGA2020	Checked	AT	Height Datum AHD	Approved		<table><tr><td colspan="2">Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK</td></tr><tr><td colspan="2">Title COVER SHEET</td></tr></table>	Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK		Title COVER SHEET		<table><tr><td colspan="2">Civil Engineers and Project Managers</td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2">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</td></tr><tr><td>Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</td><td>A1</td></tr><tr><td>Project - Drawing No. 20-748-C1000</td><td>Issue G</td></tr></table>	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. 20-748-C1000	Issue G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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DRAWING LIST	
DRAWING No.	DRAWING TITLE
20-748-C1000	COVER SHEET
20-748-C1001	DRAWING LIST
20-748-C1002	GENERAL NOTES
20-748-C1005	GENERAL ARRANGEMENT PLAN
20-748-C1010	TYPICAL ROAD SECTIONS SHEET 1
20-748-C1011	TYPICAL ROAD SECTIONS SHEET 2
20-748-C1012	TYPICAL ROAD SECTIONS SHEET 3
20-748-C1013	TYPICAL ROAD SECTIONS SHEET 4
20-748-C1015	TYPICAL DETAILS SHEET 1
20-748-C1020	BOUNDARY INTERFACE PLAN
20-748-C1021	BOUNDARY INTERFACE SECTIONS SHEET 1
20-748-C1022	BOUNDARY INTERFACE SECTIONS SHEET 2
20-748-C1023	BOUNDARY INTERFACE SECTIONS SHEET 3
20-748-C1024	BOUNDARY INTERFACE SECTIONS SHEET 4
20-748-C1030	BULK EARTHWORKS CONTOUR PLAN
20-748-C1033	BULK EARTHWORKS CUT/FILL PLAN
20-748-C1041	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
20-748-C1042	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
20-748-C1043	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
20-748-C1044	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
20-748-C1045	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
20-748-C1046	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 6
20-748-C1047	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 7
20-748-C1048	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 8
20-748-C1050	ABBOTTS ROAD (MC01) LONGITUDINAL SECTION SHEET 1
20-748-C1051	ABBOTTS ROAD (MC01) LONGITUDINAL SECTION SHEET 2
20-748-C1052	PRIVATE ACCESS ROAD (MC04) LONGITUDINAL SECTION SHEET 3
20-748-C1061	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
20-748-C1065	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)

20-748-C1071	DETENTION BASIN & POND DETAIL PLAN
20-748-C1072	DETENTION BASIN & POND SECTION
20-748-C1075	STORMWATER DRAINAGE DETAILS SHEET 1
20-748-C1076	STORMWATER DRAINAGE DETAILS SHEET 2
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20-748-C1078	STORMWATER DRAINAGE DETAILS SHEET 4
20-748-C1080	RETAINING WALL GENERAL ARRANGEMENT PLAN SHEET 1
20-748-C1085	RETAINING WALL PROFILES SHEET 1
20-748-C1086	RETAINING WALL PROFILES SHEET 2
20-748-C1087	RETAINING WALL PROFILES SHEET 3
20-748-C1088	RETAINING WALL PROFILES SHEET 4
20-748-C1089	RETAINING WALL PROFILES SHEET 5
20-748-C1101	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1
20-748-C1102	SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
20-748-C1103	SERVICES AND UTILITIES COORDINATION PLAN SHEET 3
20-748-C1104	SERVICES AND UTILITIES COORDINATION PLAN SHEET 4
20-748-C1105	SERVICES AND UTILITIES COORDINATION PLAN SHEET 5
20-748-C1106	SERVICES AND UTILITIES COORDINATION PLAN SHEET 6
20-748-C1107	SERVICES AND UTILITIES COORDINATION PLAN SHEET 7
20-748-C1201	EROSION AND SEDIMENT CONTROL PLAN
20-748-C1210	EROSION AND SEDIMENT CONTROL DETAILS
20-748-C1220	STORMWATER MANAGEMENT PLAN INTERIM ARRANGEMENT
20-748-C1311	VEHICLE TURNPATH PLAN SHEET 1
20-748-C1312	VEHICLE TURNPATH PLAN SHEET 2
20-748-C1313	VEHICLE TURNPATH PLAN SHEET 3
20-748-C1314	VEHICLE TURNPATH PLAN SHEET 4

			Bar Scales		Client		Scales	Drawn	LM	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers  <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>				
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22					N.T.S.	Designed	LM				Title	DRAWING LIST	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22					Grid	MGA2020	Checked							
E	RTS SUBMISSION	08-04-22					Height Datum	AHD	Approved		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&I		Project - Drawing No. 20-748-C1001	Issue G		
D	RTS ISSUE	11-11-21														
C	RTS ISSUE	12-10-21														
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21														
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20														
Issue	Description	Date														





1. ORIGIN OF TRENCHES: REFER SURVEY NOTES.
2. CLARIFY CONTRACTORS 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 PAVEMENT BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL.
6. MINIMUM COVER IN 150mm LAYER SHALL BE MINIMUM 5% MODIFIED MAXIMUM DENSITY IN ACCORDANCE WITH T 228.59 5.2.1.  
(OR DENSITY IN CASE OF NOT LESS THAN 75)

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.

ELEMENT	AS 3600 F <sub>c</sub> 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 ACCORDANCE WITH AS 1379.
3. 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 CENTRIC 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 FABRIC 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:

1. STORMWATER DESIGN CRITERIA:
  - (A) AVERAGE RECURRENT INTERVAL:
    - 100 YEARS MAJOR STORM (OVERLAND FLOW)
    - 120 YEARS MINOR STORM (PIPE NETWORK)
  - (B) RAINFALL INTENSITIES:
    - TIME OF CONCENTRATION 5 MINUTES
    - 100 YEARS= 219 mm/hr
    - 120 YEARS= 167 mm/hr
  - (C) RUNOFF COEFFICIENTS:
    - ROOF AREAS:  $C = 100$
    - EXTERNAL PAVEMENTS:  $C = 100$   $\Rightarrow 1.0$
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 FRC 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 DOWNPIES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE H1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS IN 150mm DEPTHS BACKFILL REMAINDER OF TRENCH TO UNDERLAY OF FLOOR SLAB WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 95% 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 AS/NZS 3500 3.2 (1998).
8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
14. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY DEFECTS TO THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

## GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:
  - a. LOCAL AUTHORITY REQUIREMENTS
  - b. EPA REQUIREMENTS
  - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

## 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 IN THE FOLLOWING SEQUENCE:
- (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
  - (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
  - (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
  - (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
  - (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
  - (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

## EROSION CONTROL

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.

## SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

## OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, COLD 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.

## STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE DESIGNED, PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, INCLUDING AT COMPLETION OF THE BULK EARTHWORKS WHERE SHOWN ON A&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCIL'S ENGINEERS.

SEDIMENT AND EROSION CONTROLS ARE TO BE DESIGNED AND DOCUMENTED BY A SUITABLY QUALIFIED EXPERT ENGAGED BY THE CONTRACTOR AND APPROVED AS PART OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS IN THE LATEST VERSION OF THE MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION GUIDELINE (LANDCOM).

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

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.

EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER  
REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN  
APPROVED WASTE MANAGEMENT FACILITY.

DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

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.

**MATERIALS:**

BIO-RETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYERS TO BE IN ACCORDANCE WITH CURRENT VERSION OF FAWB DOCUMENT "STORMWATER BIO-FILTRATION SYSTEMS ADOPTION GUIDELINES" AND THE FOLLOWING:

### A) BIO-RETENTION FILTER MEDIA

1. BIO-RETENTION MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL.
2. BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE 180mm/hr USING TEST METHOD ASTM F1815-06.
3. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS:
- |                       |        |               |
|-----------------------|--------|---------------|
| CLAY & SILT           | <3%    | (0.05mm)      |
| VERY FINE SAND        | 5-30%  | (0.05-0.15mm) |
| FINE SAND             | 10-30% | (0.15-0.25mm) |
| MEDIUM TO COARSE SAND | 40-60% | (0.25-1.0mm)  |
| COARSE SAND           | 7-10%  | (1.0-2.0mm)   |
| FIN GRAVEL            | <3%    | (2.0-3.4mm)   |

THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3% (W/W)  
UNDER ANY CIRCUMSTANCES.

4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS:
- a) ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3% (W/W)
  - b) TOTAL NITROGEN (TN) CONTENT <90mg/kg
  - c) ORTHOPHOSPHATE (PO<sub>4</sub>) CONTENT <30mg/kg WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONCENTRATION SHOULD BE <20mg/kg.
  - d) AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5 (pH IN WATER)
  - e) ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 <1.2ds/m
  - f) DISPENSABILITY - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 CATEGORY 1 OR 2
  - g) TEXTURE - LOAMY SAND AS PER AS4419

5. PRIOR TO PLACEMENT OF THE FILTER MEDIA A STATEMENT IS TO BE SUBMITTED FROM A QUALIFIED HORTICULTURIST CONFIRMING THAT THE SOIL IS CAPABLE OF SUPPORTING A HEALTHY VEGETABLE COMMUNITY.
6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

B) DRAINAGE LAYER A

DRAINAGE LAYER MATERIAL IS TO BE CLEAN, FINE GRAVEL, SUCH AS A 2 - 5mm WASHED SCREENING. THE PARTICLE SIZE DISTRIBUTION TO BE:  
 $D_{15}(\text{DRAINAGE LAYER}) < 5 \times D_{85}(\text{TRANSITION LAYER})$   
 WHERE:  $D_{15}$  (DRAINAGE LAYER) IS THE 15th PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN  $D_{15}$ mm), AND  $D_{85}$  (TRANSITION LAYER) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

C) DRAINAGE LAYER B

10-20mm CLEAN GRAVEL WITH 2% VOLUME FINE STRAW AND 4-6% VOLUME HARDWOOD CHIPS.

### INSTALLATION:

FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.





1. ALL FINISHED SURFACE LEVELS ARE  $\pm 2000\text{mm}$  U.N.O.



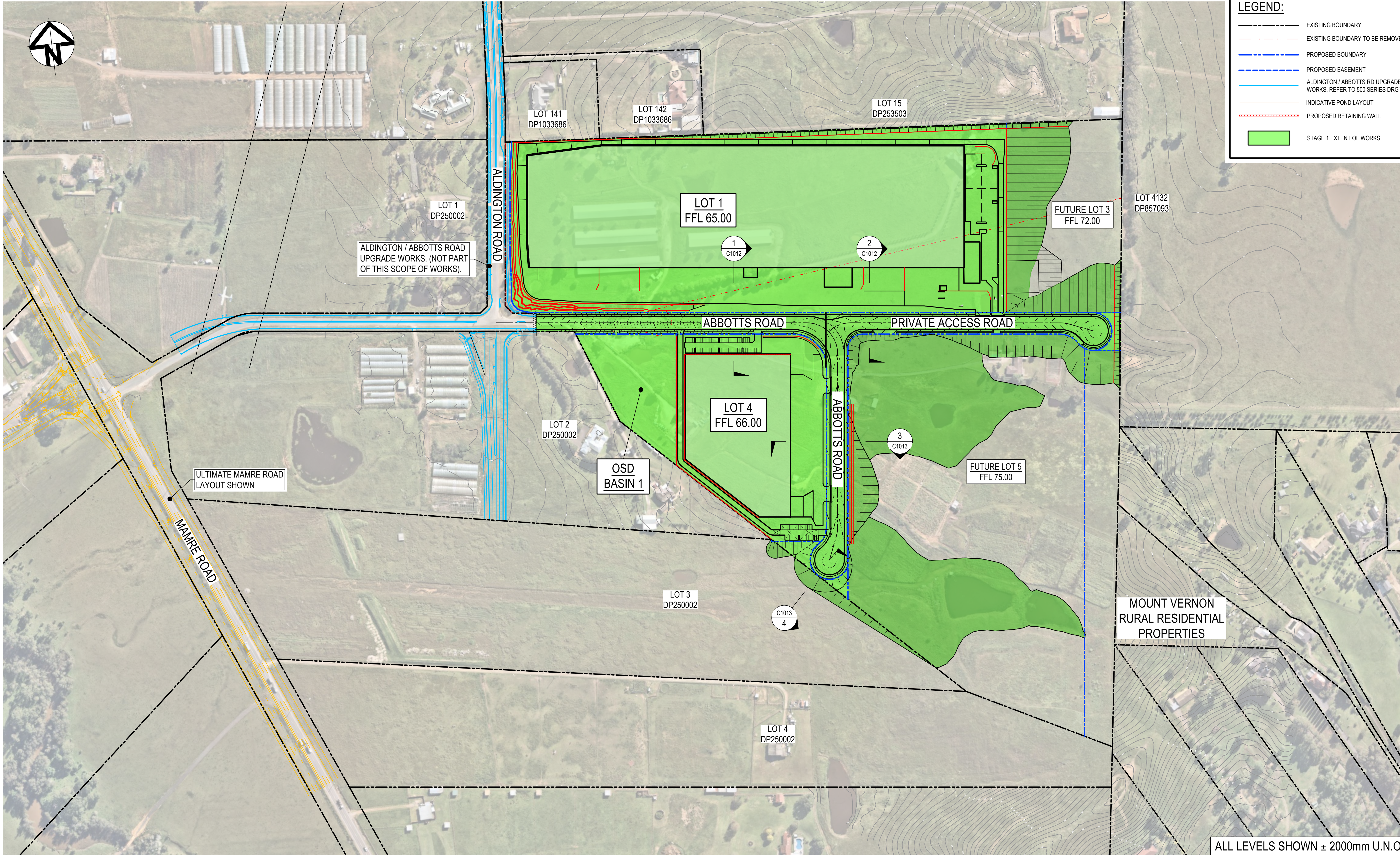
**DIAL 1100**  
**BEFORE YOU DIG**

CONTRACTOR SHALL CALL;  
DIAL BEFORE  
YOU DIG 1100

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

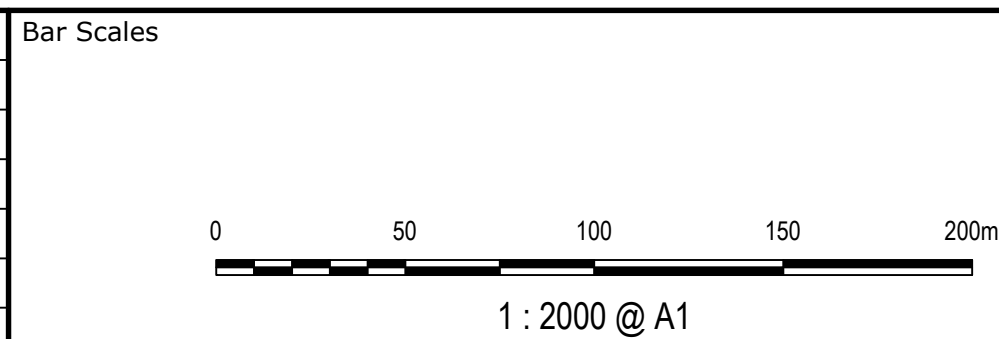
		Bar Scales		Client		<table><tr><td>Scales</td><td>Drawn</td><td>LM</td></tr><tr><td>N.T.S.</td><td>Designed</td><td>LM</td></tr><tr><td>Grid</td><td>Checked</td><td>AT</td></tr><tr><td>Height Datum</td><td>Approved</td><td></td></tr></table>	Scales	Drawn	LM	N.T.S.	Designed	LM	Grid	Checked	AT	Height Datum	Approved		<table><tr><td>Project</td><td>PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK</td></tr><tr><td>Title</td><td>GENERAL NOTES</td></tr></table>	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Title	GENERAL NOTES	<table><tr><td colspan="2">Civil Engineers and Project Managers</td></tr><tr><td colspan="2"><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></td></tr><tr><td>Status</td><td>FOR APPROVAL</td></tr><tr><td colspan="2">NOT TO BE USED FOR CONSTRUCTION</td></tr><tr><td>Project - Drawing No.</td><td>Issue</td></tr><tr><td>20-748-C1002</td><td>G</td></tr></table>	Civil Engineers and Project Managers		 <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>		Status	FOR APPROVAL	NOT TO BE USED FOR CONSTRUCTION		Project - Drawing No.	Issue	20-748-C1002	G
Scales	Drawn					LM																														
N.T.S.	Designed					LM																														
Grid	Checked					AT																														
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Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK																																			
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Project - Drawing No.	Issue																																			
20-748-C1002	G																																			
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22																																		
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22																																		
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B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21																																		
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20																																		
Issue	Description	Date																																		





ALL LEVELS SHOWN ± 2000mm U.N.O

Issue	Description	Date
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS ISSUE	13-01-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20



Client



Scales  
1 : 2000

Grid  
MGA2020

Height  
Datum  
AHD



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Drawn	LM
Designed	LM
Checked	AT
Approved	

Project  
**PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK**

Title  
**GENERAL ARRANGEMENT PLAN**

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

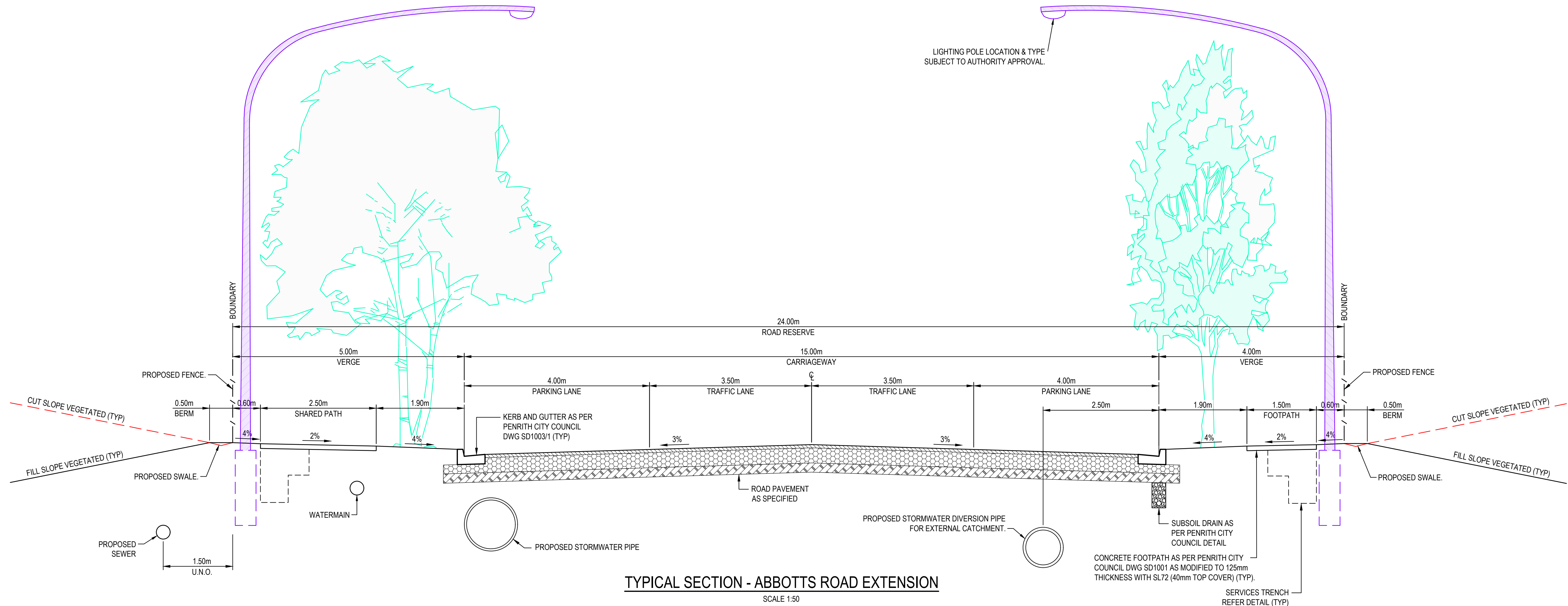
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**FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**20-748-C1005**

A1

Issue  
G






TYPICAL SECTION - ABBOTTS ROAD EXTENSION  
SCALE 1:50

G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date


Bar Scales
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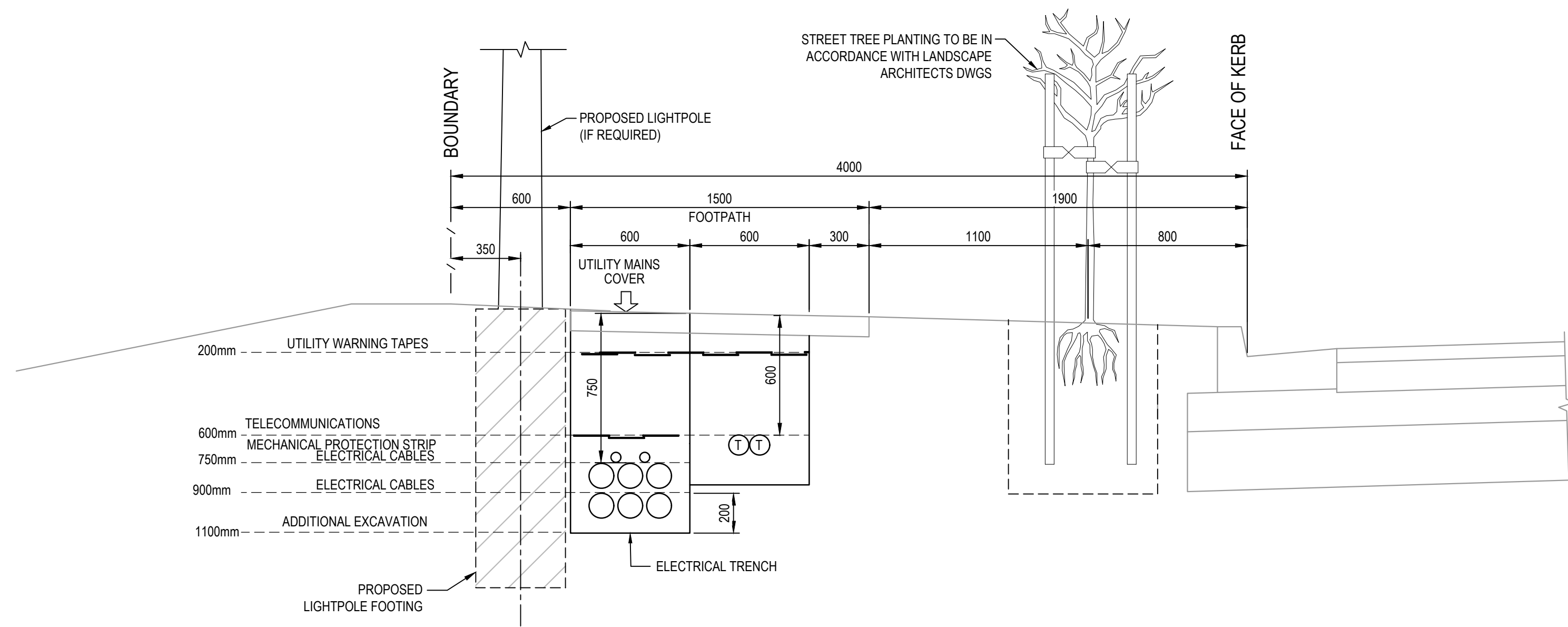
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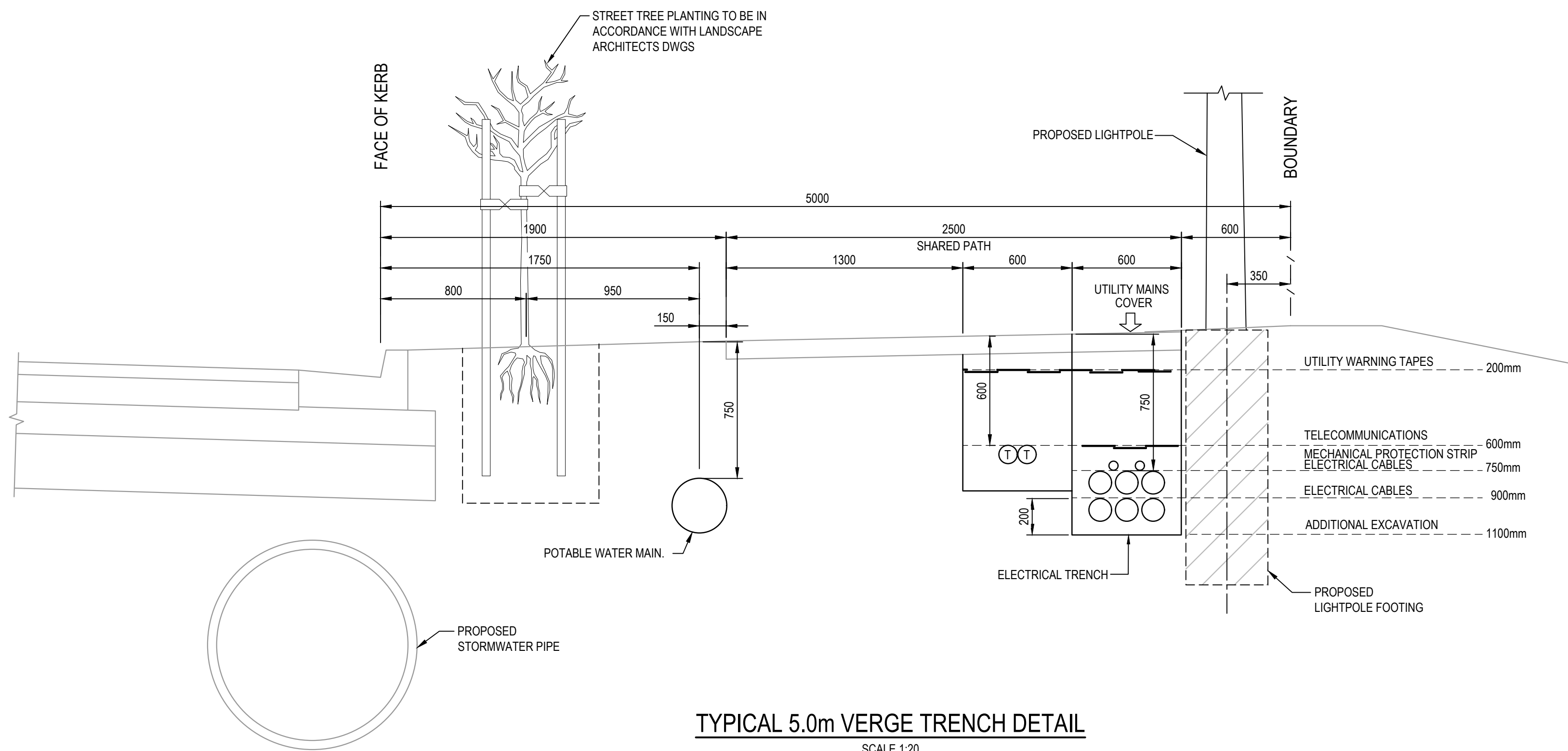

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Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
			
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Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	TYPICAL ROAD SECTIONS SHEET 1

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	A1
Project - Drawing No.	20-748-C1010	Issue G



TYPICAL 4m VERGE TRENCH DETAIL  
SCALE 1:20



TYPICAL 5.0m VERGE TRENCH DETAIL  
SCALE 1:20


Issue	Description	Date
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20

Bar Scales

Client



Scales	AS SHOWN	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	

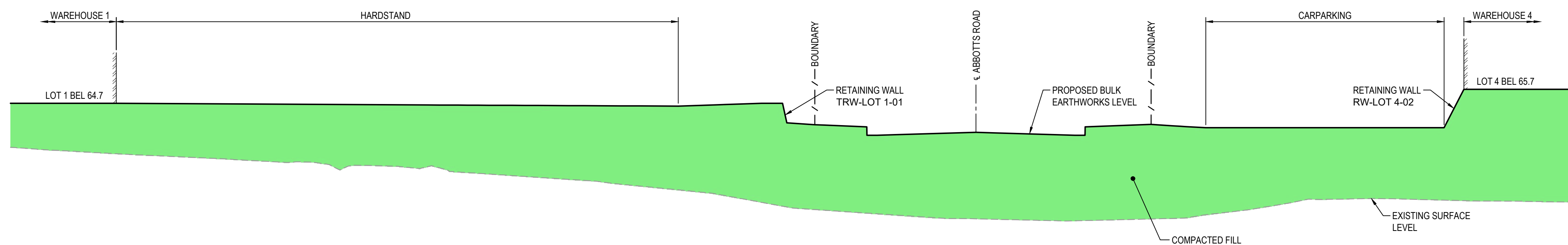
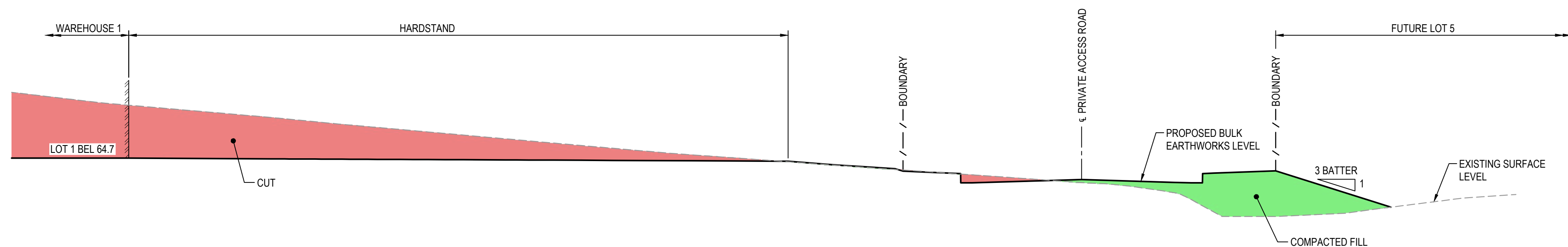


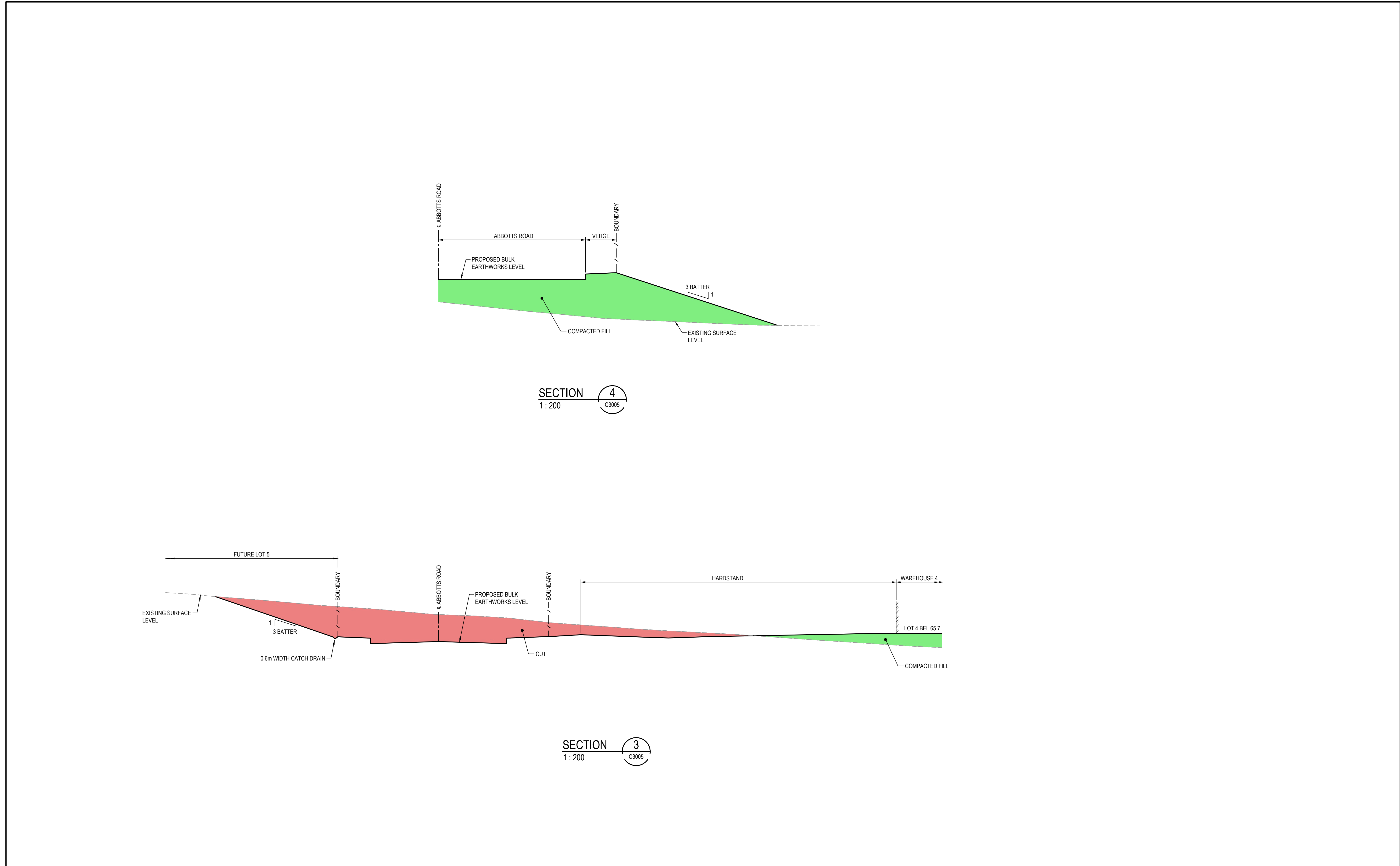
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Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	TYPICAL ROAD SECTIONS SHEET 2

Civil Engineers and Project Managers	at&l Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	20-748-C1011
Issue	G

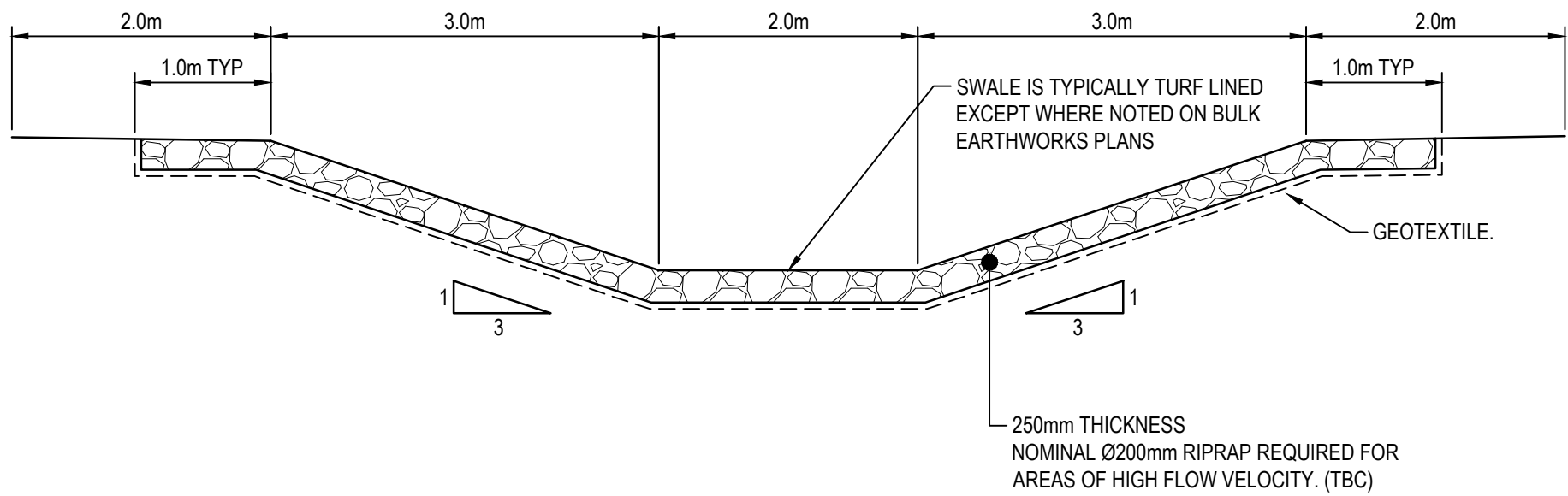


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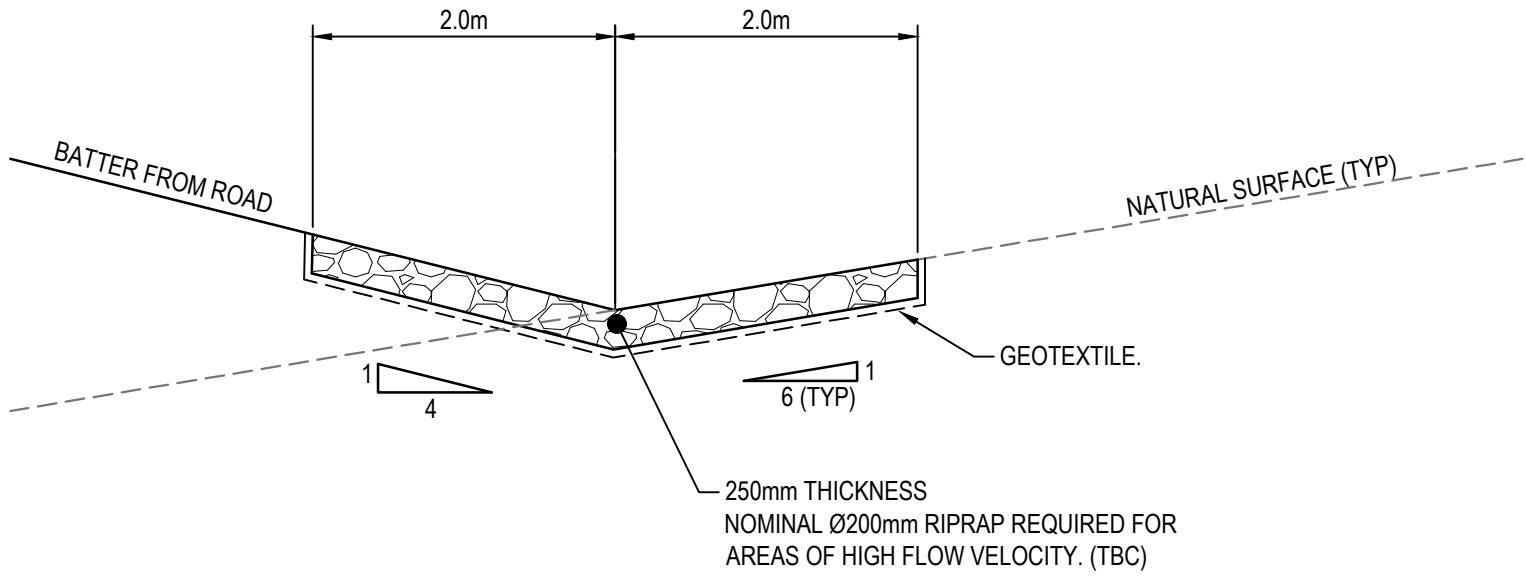


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											Height Datum		AHD		Approved				Title			
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																			20-748-C1013		D	
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C			RE-ISSUED FOR DEVELOPMENT APPLICATION		29-08-22																	
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A			ISSUED FOR DEVELOPMENT APPLICATION		11-11-21																	
Issue			Description		Date																	





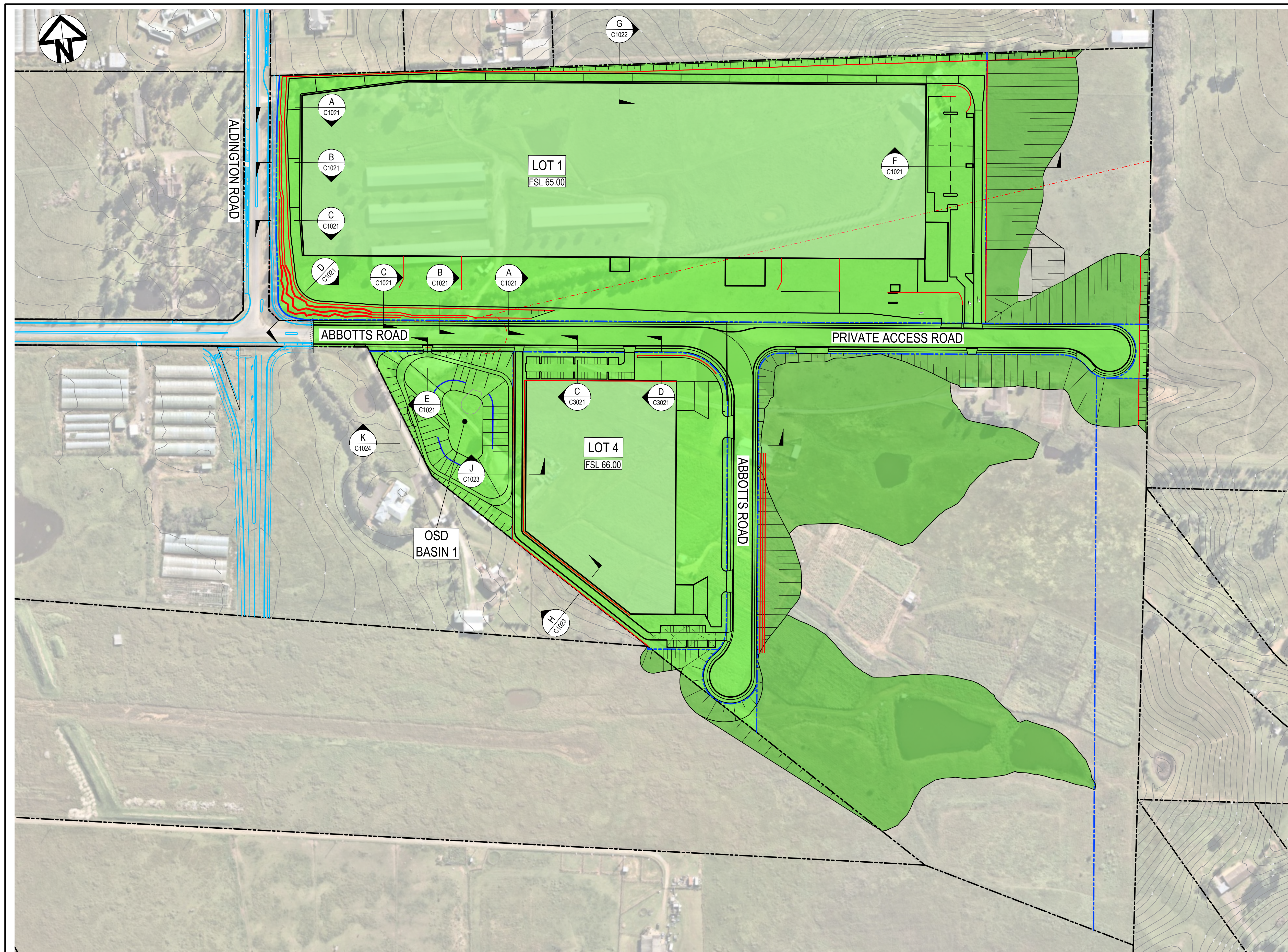
**TYPICAL STORMWATER DIVERSION EROSION CATCH DRAIN**  
SCALE 1:50



**TYPICAL STORMWATER DIVERSION CATCH DRAIN ALONG TOE OF ROAD BATTER**  
SCALE 1:50

			Bar Scales		Client	Scales	Drawn	LM	Project	Civil Engineers and Project Managers
						AS SHOWN	Designed	LM	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	
						Grid MGA2020	Checked	AT		
						Height Datum AHD	Approved			
						GDA2020			Title	
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									FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
									Project - Drawing No. 20-748-C1015	Issue B
Issue	Description	Date								





**LEGEND:**

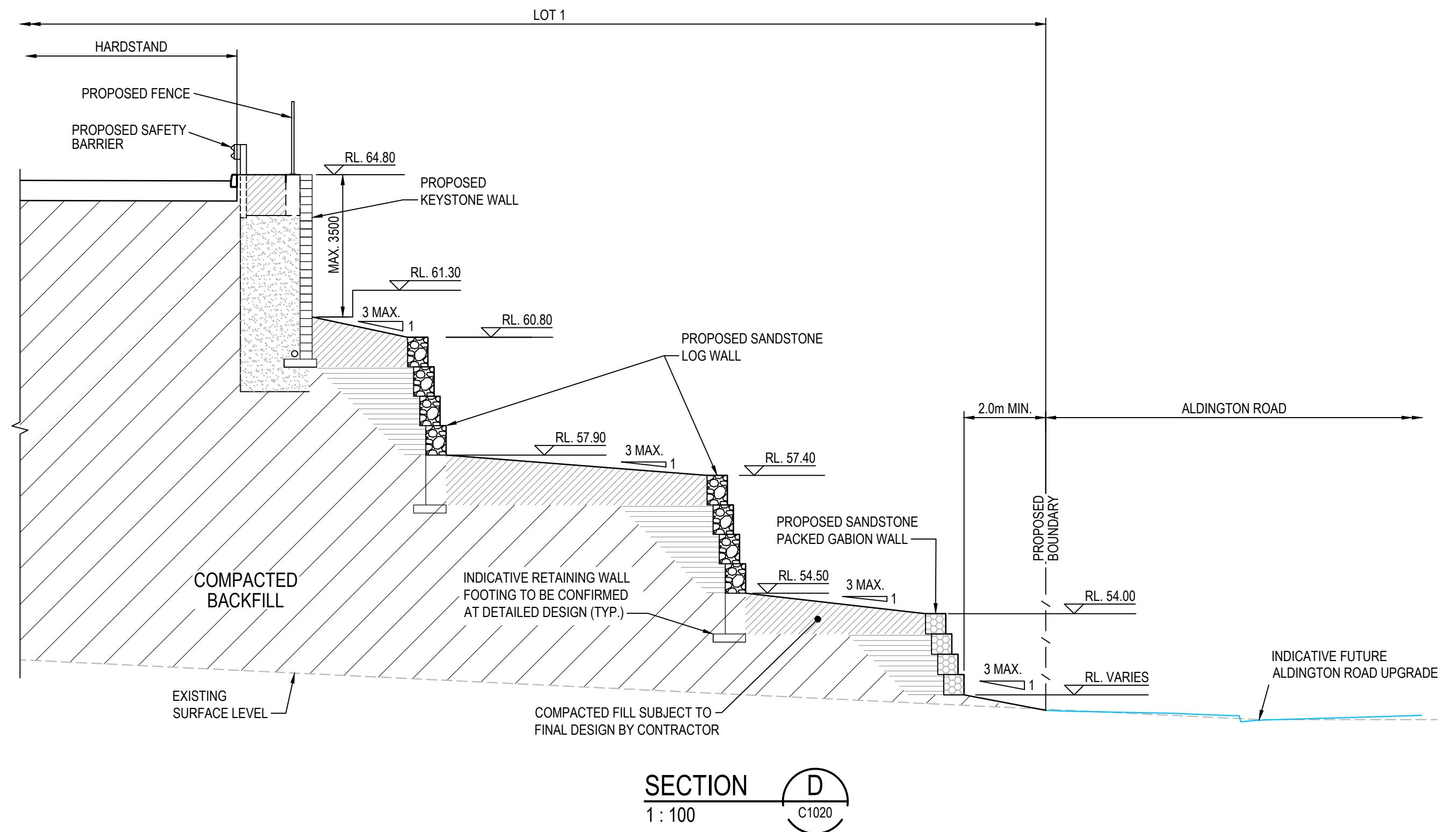
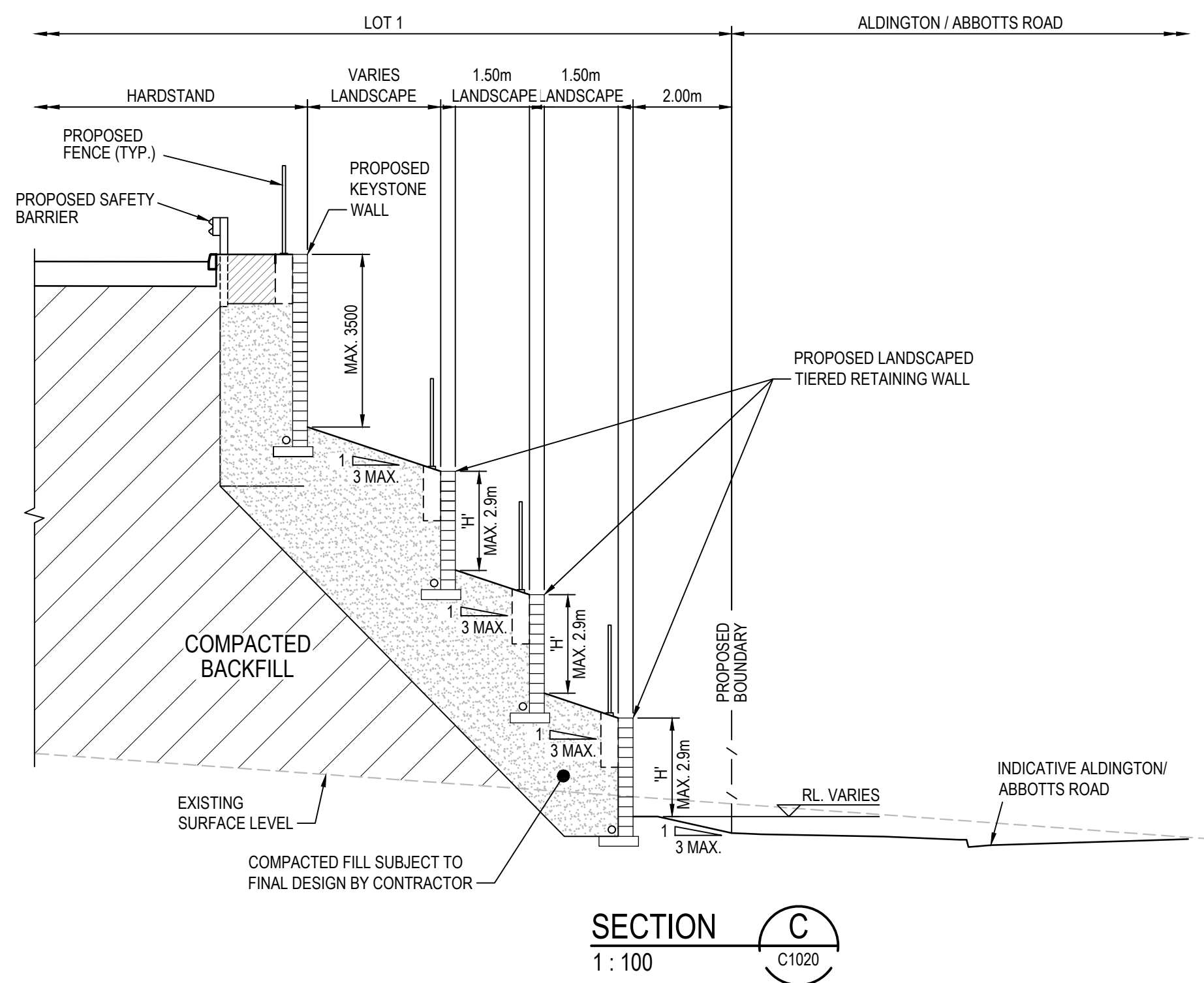
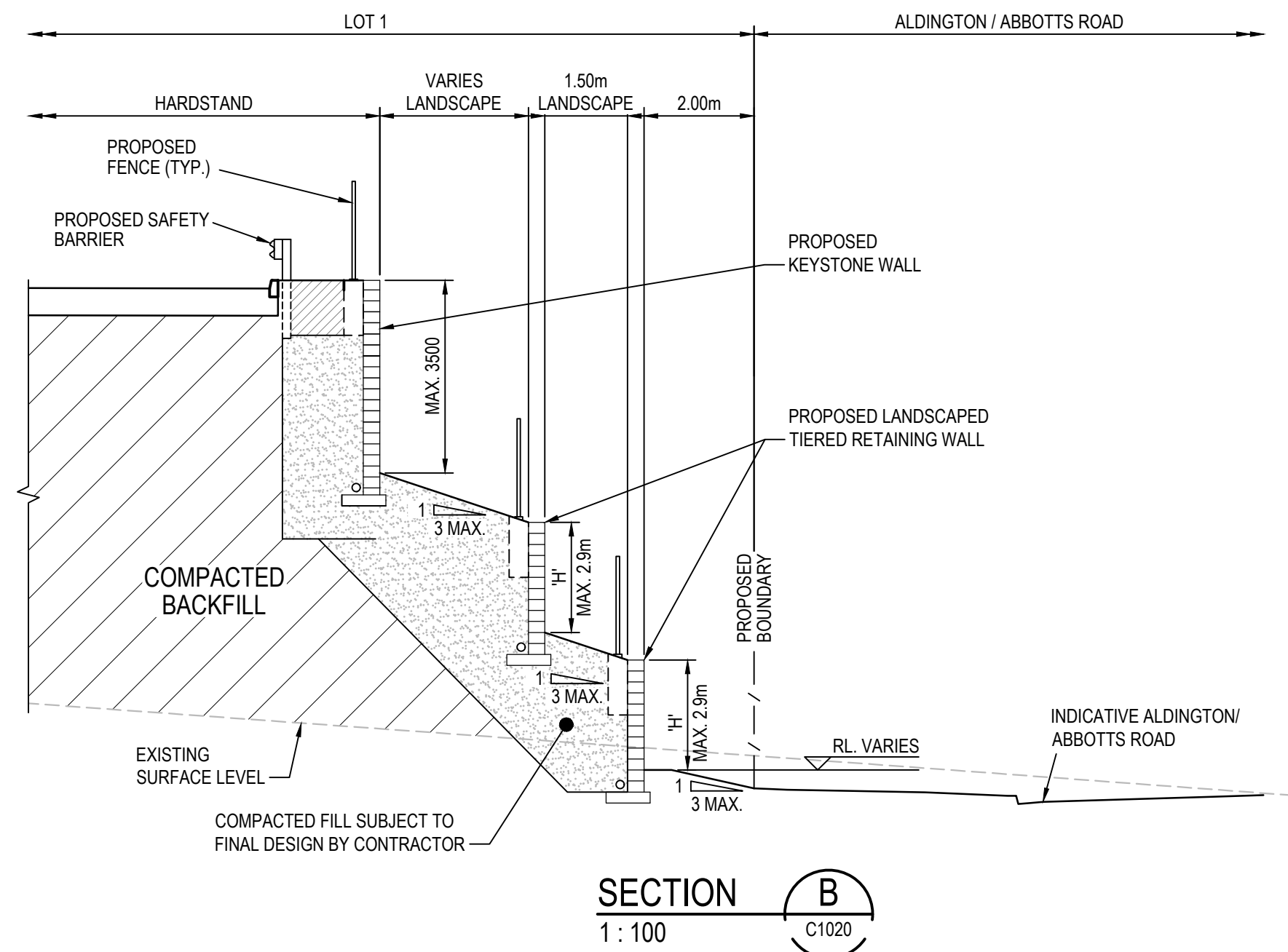
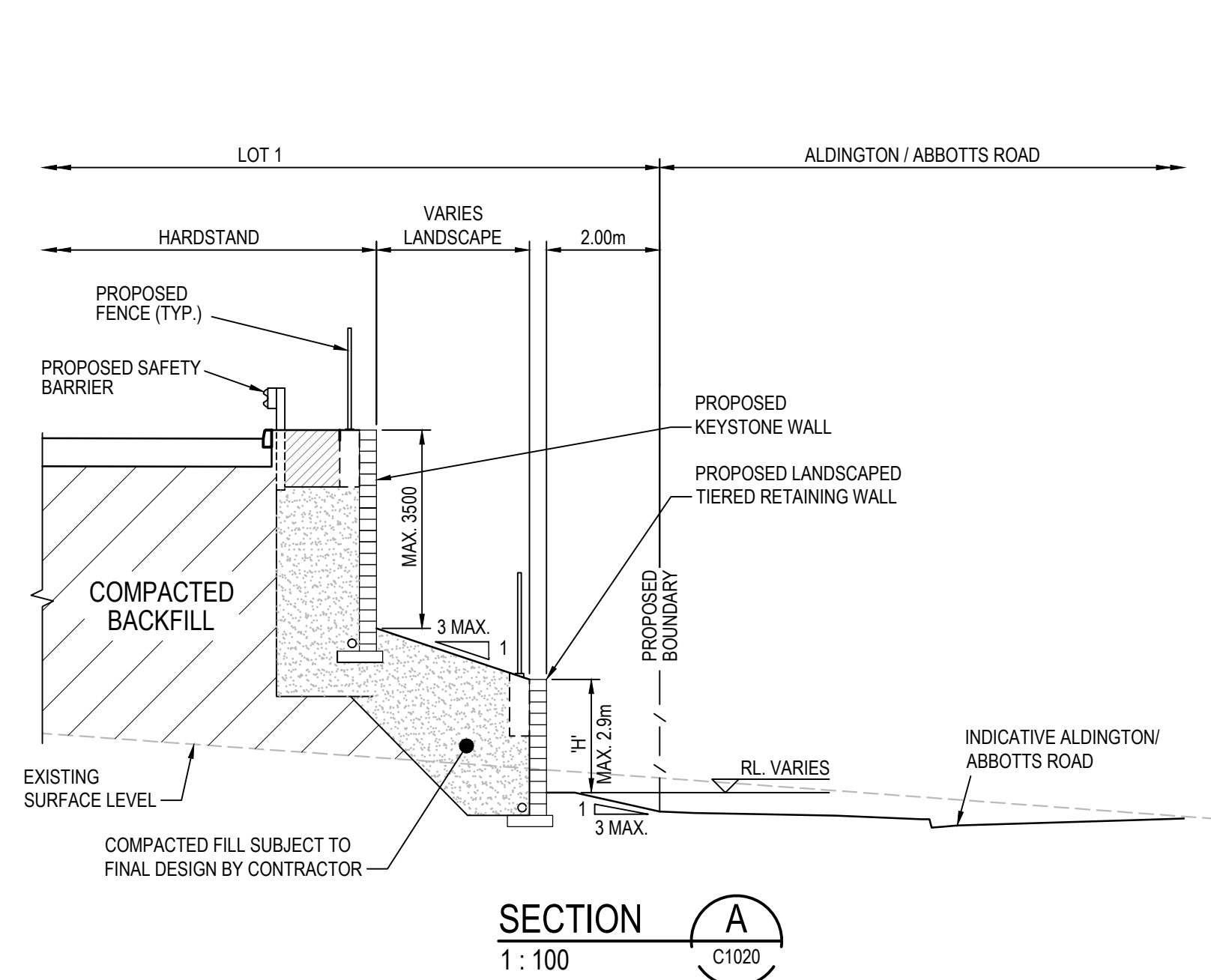
- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- ALDINGTON / ABBOTTS RD UPGRADE WORKS. REFER TO 500 SERIES DRG's.
- INDICATIVE POND LAYOUT
- PROPOSED RETAINING WALL
- STAGE 1 EXTENT OF WORKS

ALL LEVELS SHOWN ± 2000mm U.N.O

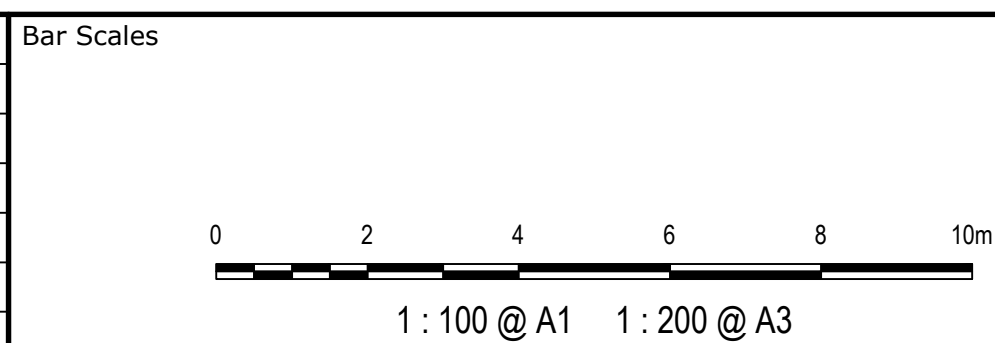
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NOTE:  
RETAINING WALL DETAILS ARE INDICATIVE  
ONLY. FINAL DESIGN SUBJECT TO  
GEOTECHNICAL, LANDSCAPE AND STRUCTURAL  
ENGINEERS DETAILS.



Issue	Description	Date
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20



Client



Scales  
1 : 100

Grid  
MGA2020

Height  
Datum  
AHD



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Drawn  
LM

Designed  
LM

Checked  
AT

Approved

Project  
**PROPOSED INDUSTRIAL  
DEVELOPMENT  
WESTLINK  
KEMPS CREEK**

Title  
**BOUNDARY  
INTERFACE  
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**

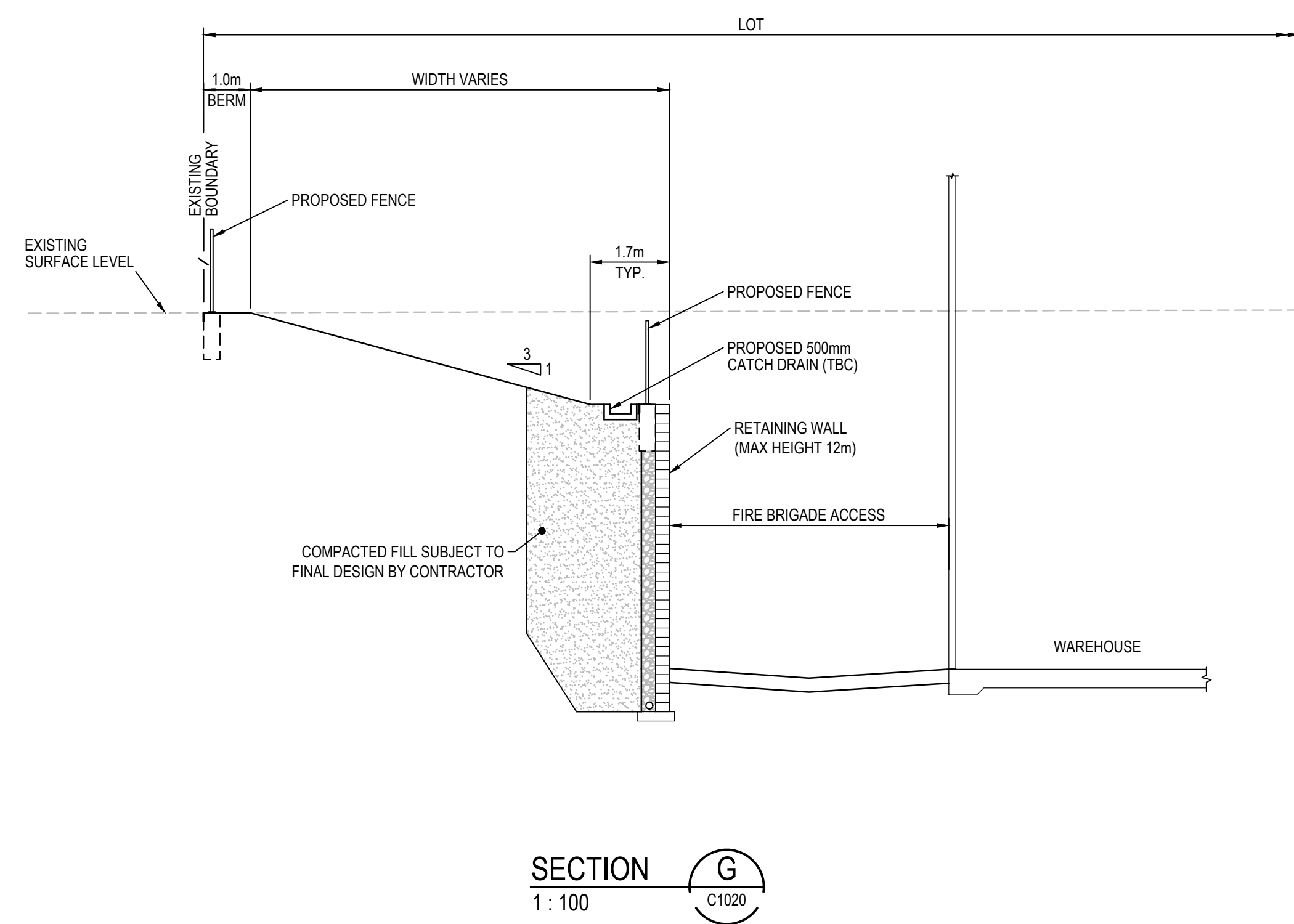
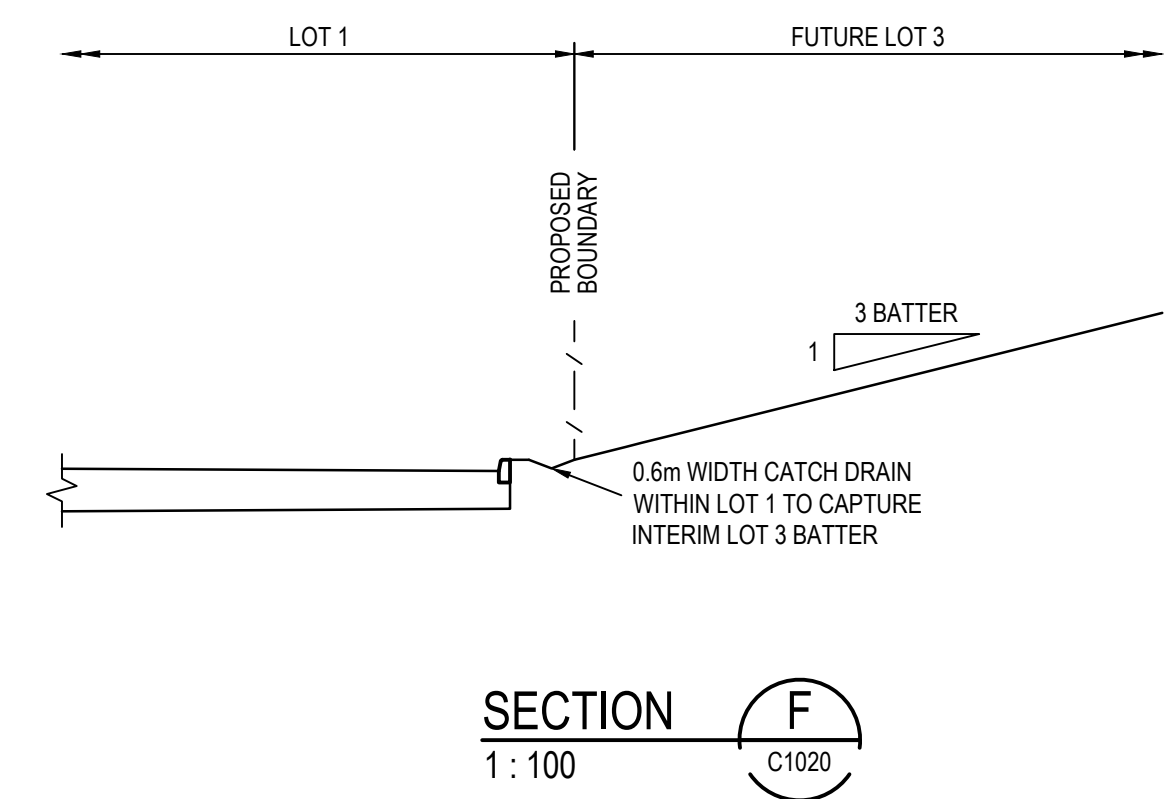
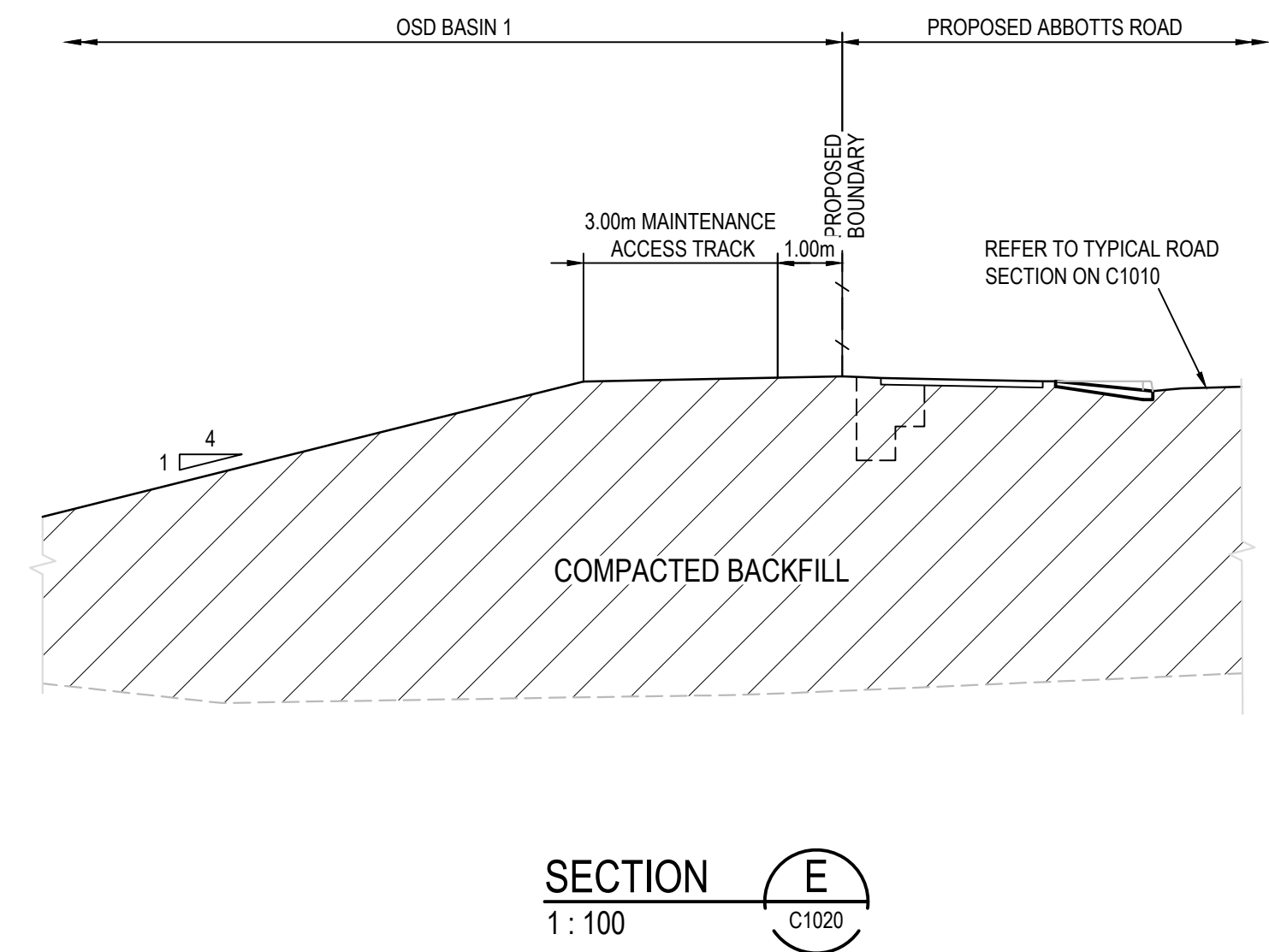
**NOT TO BE USED FOR CONSTRUCTION**




Project - Drawing No.  
**20-748-C1021**

Issue

**G**

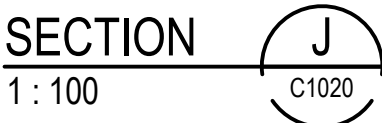
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RETAINING WALL DETAILS ARE INDICATIVE ONLY. FINAL DESIGN SUBJECT TO GEOTECHNICAL, LANDSCAPE AND STRUCTURAL ENGINEERS DETAILS.



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G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	 1 : 100 @ A1 1 : 200 @ A3							 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						
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22			Grid MGA2020	Designed LM	Checked AT	Title BOUNDARY INTERFACE SECTIONS SHEET 2	Status FOR APPROVAL		A1					
E	RTS SUBMISSION	08-04-22														
D	RTS ISSUE	11-11-21					Height Datum AHD	Approved			Project - Drawing No.		Issue			
C	RTS ISSUE	12-10-21									20-748-C1022		G			
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21														
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20														
Issue	Description	Date														

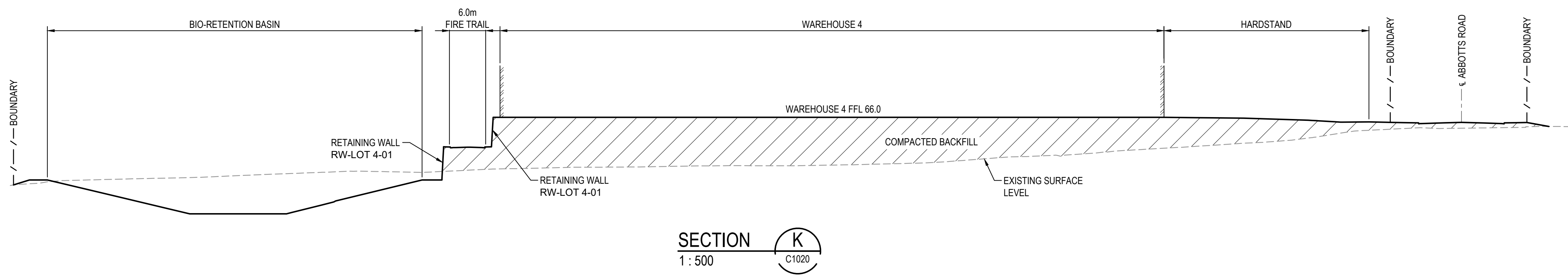
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RETAINING WALL DETAILS ARE INDICATIVE ONLY. FINAL DESIGN SUBJECT TO GEOTECHNICAL, LANDSCAPE AND STRUCTURAL ENGINEERS DETAILS.



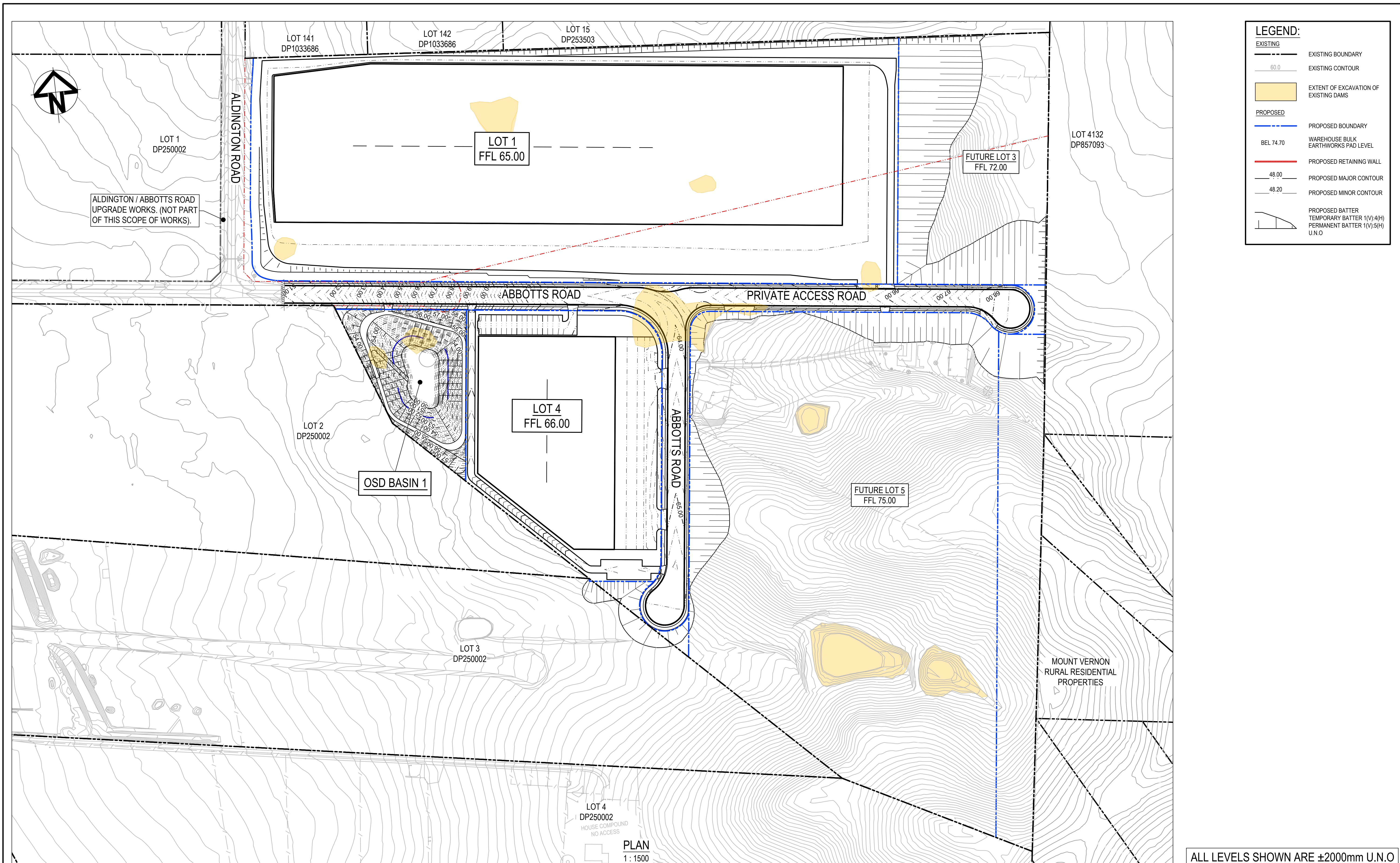
		Bar Scales		Client	<div><div><div></div><div></div><div></div></div><div>ESR</div></div>	<table><tr><td rowspan="2">Scales</td><td>AS SHOWN</td><td>Drawn</td><td>LM</td></tr><tr><td></td><td>Designed</td><td>LM</td></tr><tr><td>Grid</td><td>MGA2020</td><td>Checked</td><td>AT</td></tr><tr><td>Height Datum</td><td>AHD</td><td>Approved</td><td></td></tr><tr><td colspan="4"><div><div><div></div><div>GDA2020</div></div><div>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;I</div></div></td></tr></table>	Scales	AS SHOWN	Drawn	LM		Designed	LM	Grid	MGA2020	Checked	AT	Height Datum	AHD	Approved		<div><div><div></div><div>GDA2020</div></div><div>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;I</div></div>				<table><tr><td>Project</td><td>PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK</td></tr><tr><td>Title</td><td>BOUNDARY INTERFACE SECTIONS SHEET 3</td></tr></table>	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Title	BOUNDARY INTERFACE SECTIONS SHEET 3	<table><tr><td colspan="2">Civil Engineers and Project Managers</td></tr><tr><td colspan="2"><div><div><div></div><div>at&amp;i</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></td></tr><tr><td>Status</td><td>FOR APPROVAL</td></tr><tr><td colspan="2">NOT TO BE USED FOR CONSTRUCTION</td></tr><tr><td>Project - Drawing No.</td><td>Issue</td></tr><tr><td>20-748-C1023</td><td>C</td></tr></table>	Civil Engineers and Project Managers		<div><div><div></div><div>at&amp;i</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>		Status	FOR APPROVAL	NOT TO BE USED FOR CONSTRUCTION		Project - Drawing No.	Issue	20-748-C1023	C
Scales	AS SHOWN	Drawn	LM																																								
		Designed	LM																																								
Grid	MGA2020	Checked	AT																																								
Height Datum	AHD	Approved																																									
<div><div><div></div><div>GDA2020</div></div><div>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;I</div></div>																																											
Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK																																										
Title	BOUNDARY INTERFACE SECTIONS SHEET 3																																										
Civil Engineers and Project Managers																																											
<div><div><div></div><div>at&amp;i</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>																																											
Status	FOR APPROVAL																																										
NOT TO BE USED FOR CONSTRUCTION																																											
Project - Drawing No.	Issue																																										
20-748-C1023	C																																										
		<div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10m</div></div><div>1 : 100 @ A1   1 : 200 @ A3</div></div>																																									
C	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22																																									
B	RTS SUBMISSION	08-04-22																																									
A	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21																																									
Issue	Description	Date																																									





		Bar Scales				Client		<div><div></div><div>ESR</div></div>		<div><div>Scales</div><div>AS SHOWN</div></div> <div><div>Grid</div><div>MGA2020</div></div> <div><div>Height Datum</div><div>AHD</div></div> <div><div><div></div><div>GDA2020</div></div><div>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;I</div></div>		<div><div>Drawn</div><div>LM</div></div> <div><div>Designed</div><div>LM</div></div> <div><div>Checked</div><div>AT</div></div> <div><div>Approved</div><div></div></div>		<div><div>Project</div><div>PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK</div></div> <div><div>Title</div><div>BOUNDARY INTERFACE SECTIONS SHEET 4</div></div>		<div><div>Civil Engineers and Project Managers</div><div><div>at&amp;i</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></div> <div><div>Status</div><div>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</div><div>Project - Drawing No. 20-748-C1024</div></div>		<div><div>A1</div></div> <div><div>Issue</div><div>C</div></div>	
		<div><div>01020</div><div>1 : 500 @ A1 1 : 1000 @ A3</div></div>																	
C	RE-ISSUED FOR DEVELOPMENT APPLICATION		19-10-22																
B	RTS SUBMISSION		08-04-22																
A	ISSUED FOR DEVELOPMENT APPLICATION		19-04-21																
Issue	Description		Date																





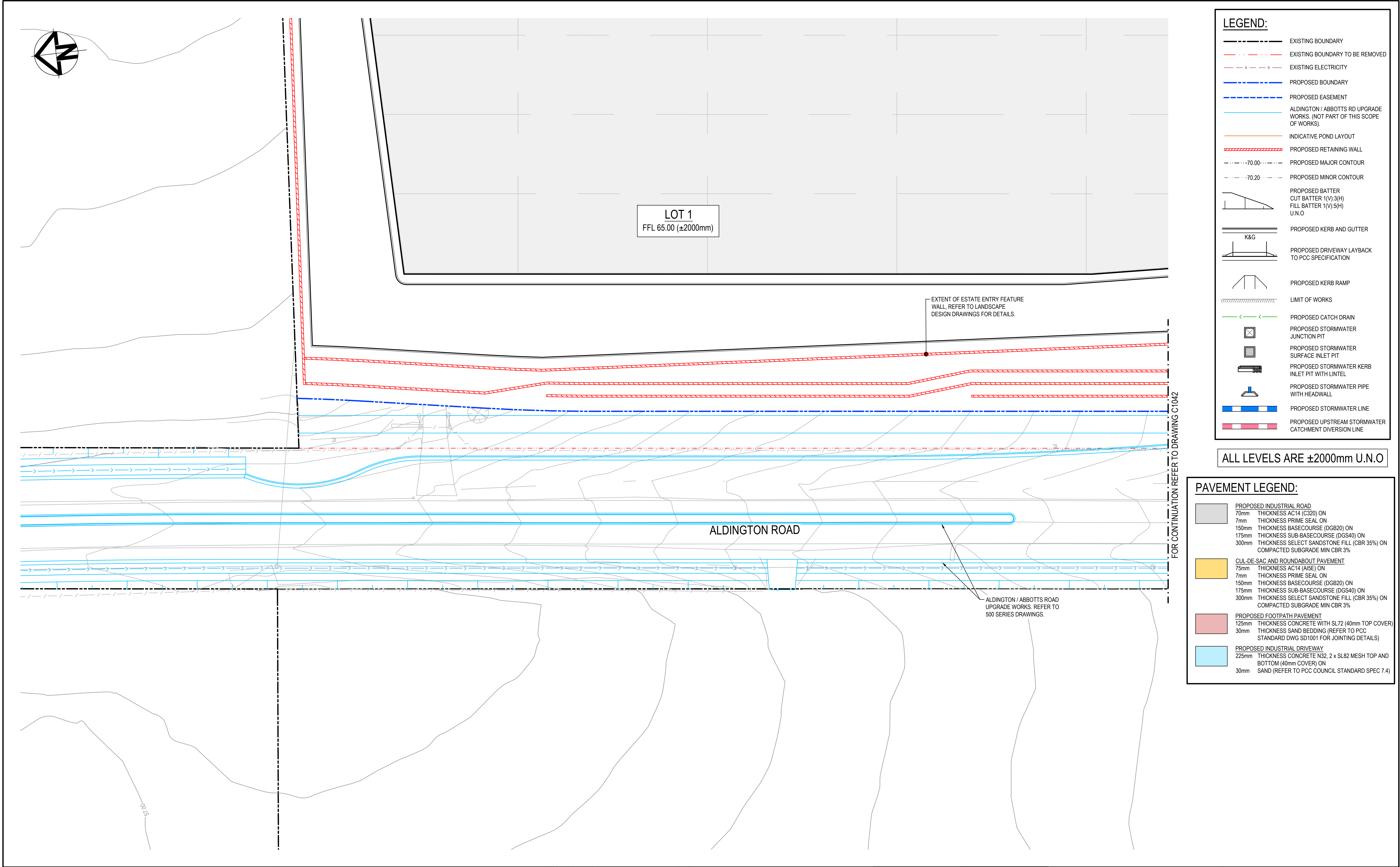
ALL LEVELS SHOWN ARE  $\pm 2000\text{mm}$  U.N.O

			Bar Scales			Scales	Drawn	LM	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers  <b>at&amp;l</b> 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 : 1500 @ A1 1 : 3000 @ A3			1 : 1500	Designed	LM				
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22				Grid	MGA2020	Checked				AT
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22				Height Datum	AHD	Approved				
E	RTS SUBMISSION	08-04-22				  THIS DRAWING CAN NOT 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						
D	RTS ISSUE	11-11-21										
C	RTS ISSUE	12-10-21										
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	Client			Title			BULK EARTHWORKS CONTOUR PLAN	Status	FOR APPROVAL	A1
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20								Project - Drawing No.		
Issue	Description	Date										

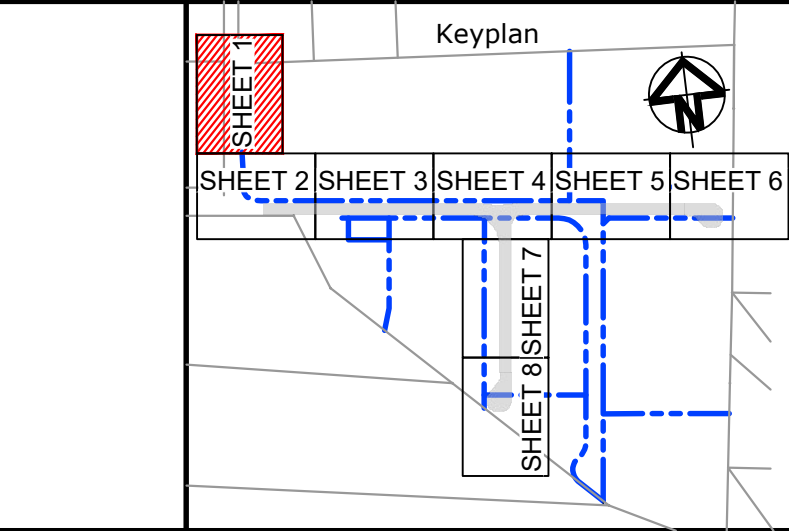
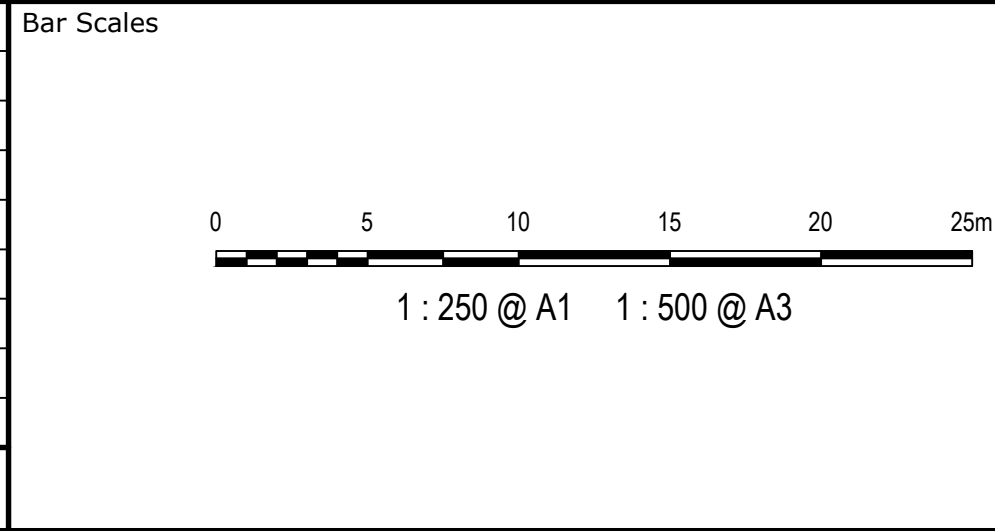








G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date

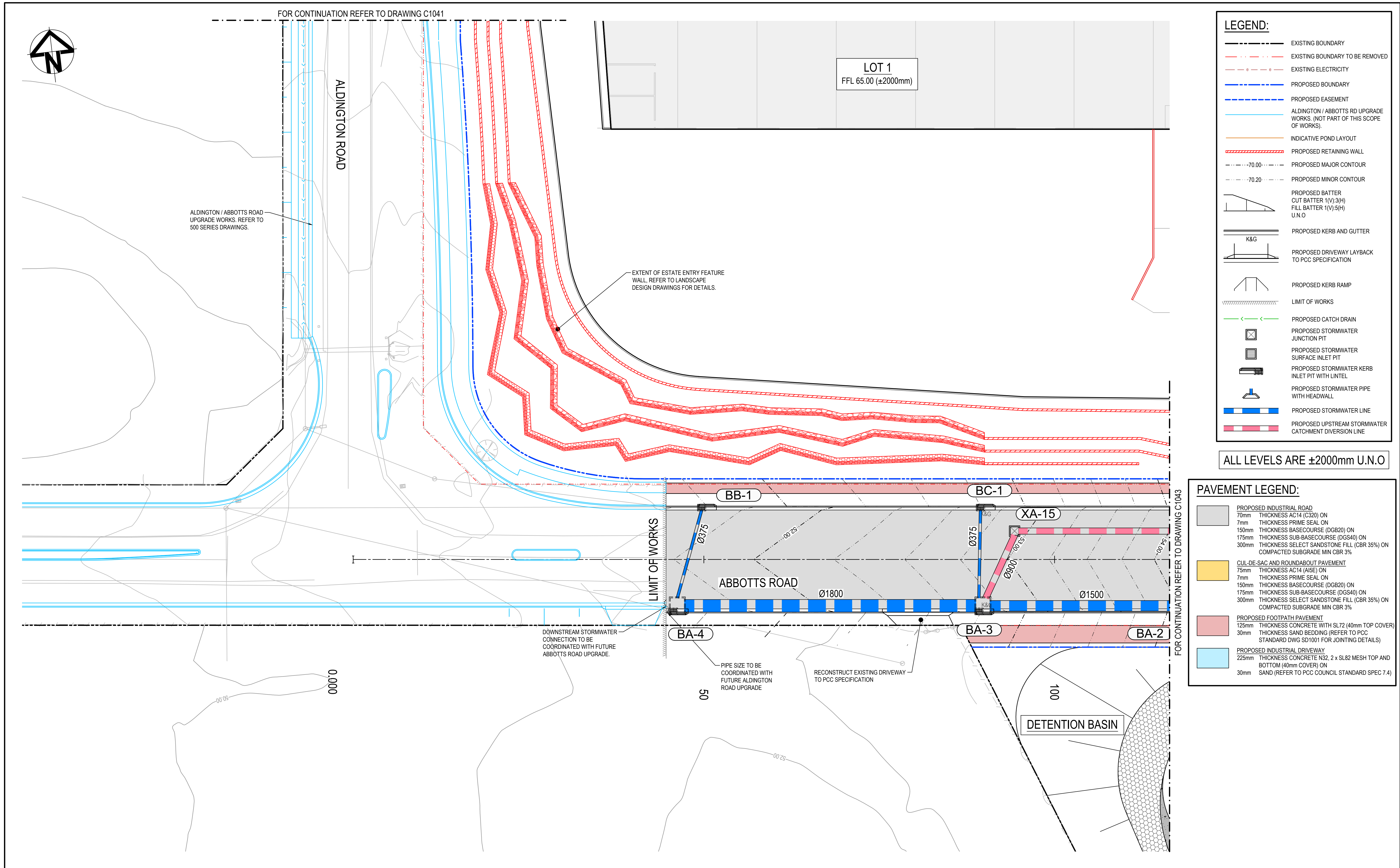


Scales	1 : 250	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&I			

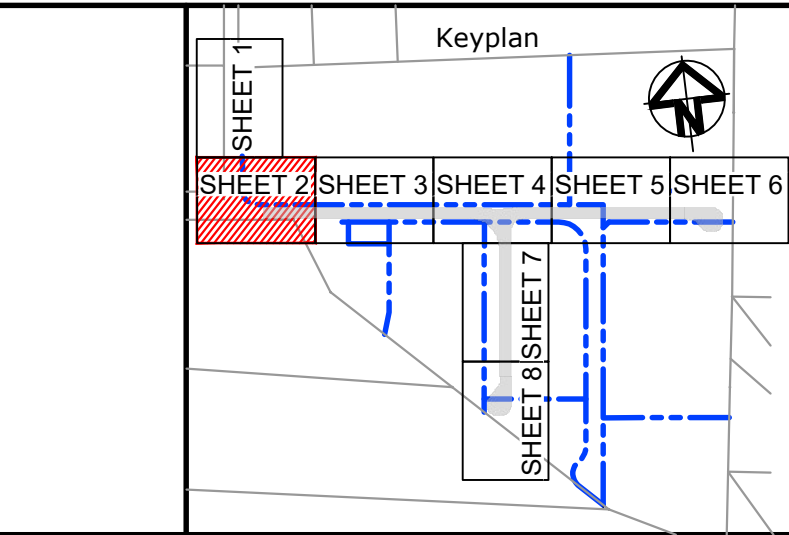
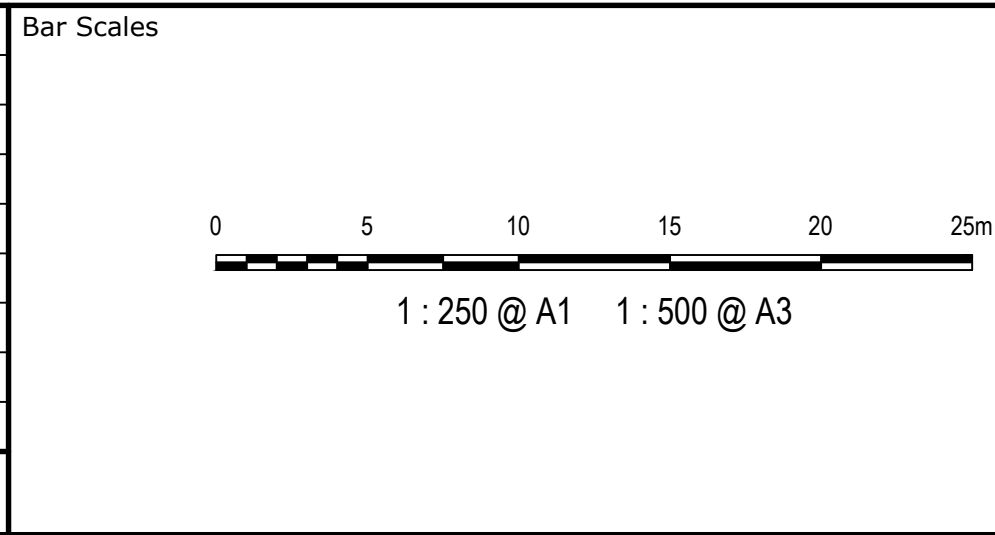
Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1

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.ati.net.au info@ati.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	20-748-C1041	Issue G





Issue	Description	Date
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20

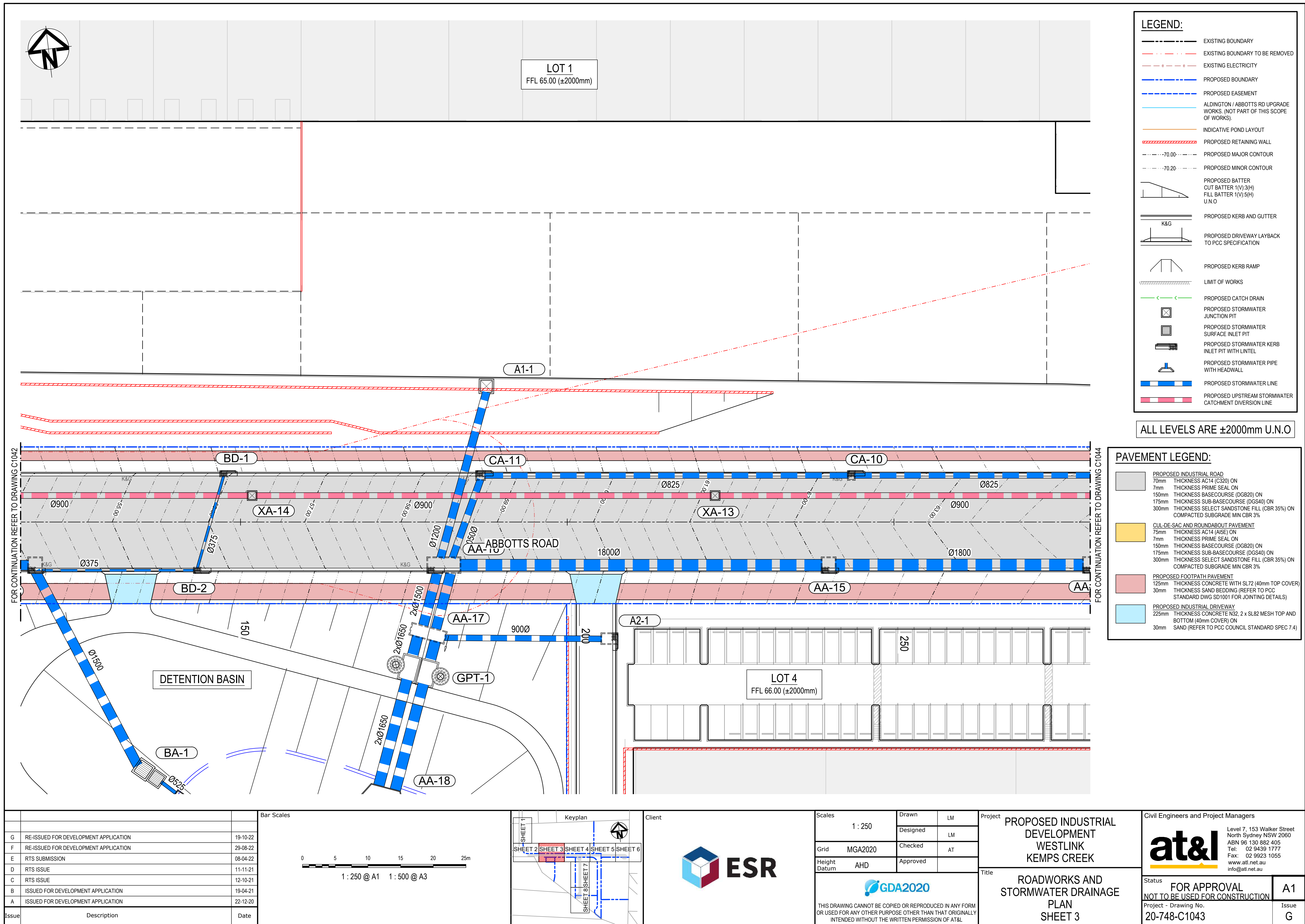


Scales	1 : 250	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
GDA2020			
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&I			

Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

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.	20-748-C1042	Issue
		G

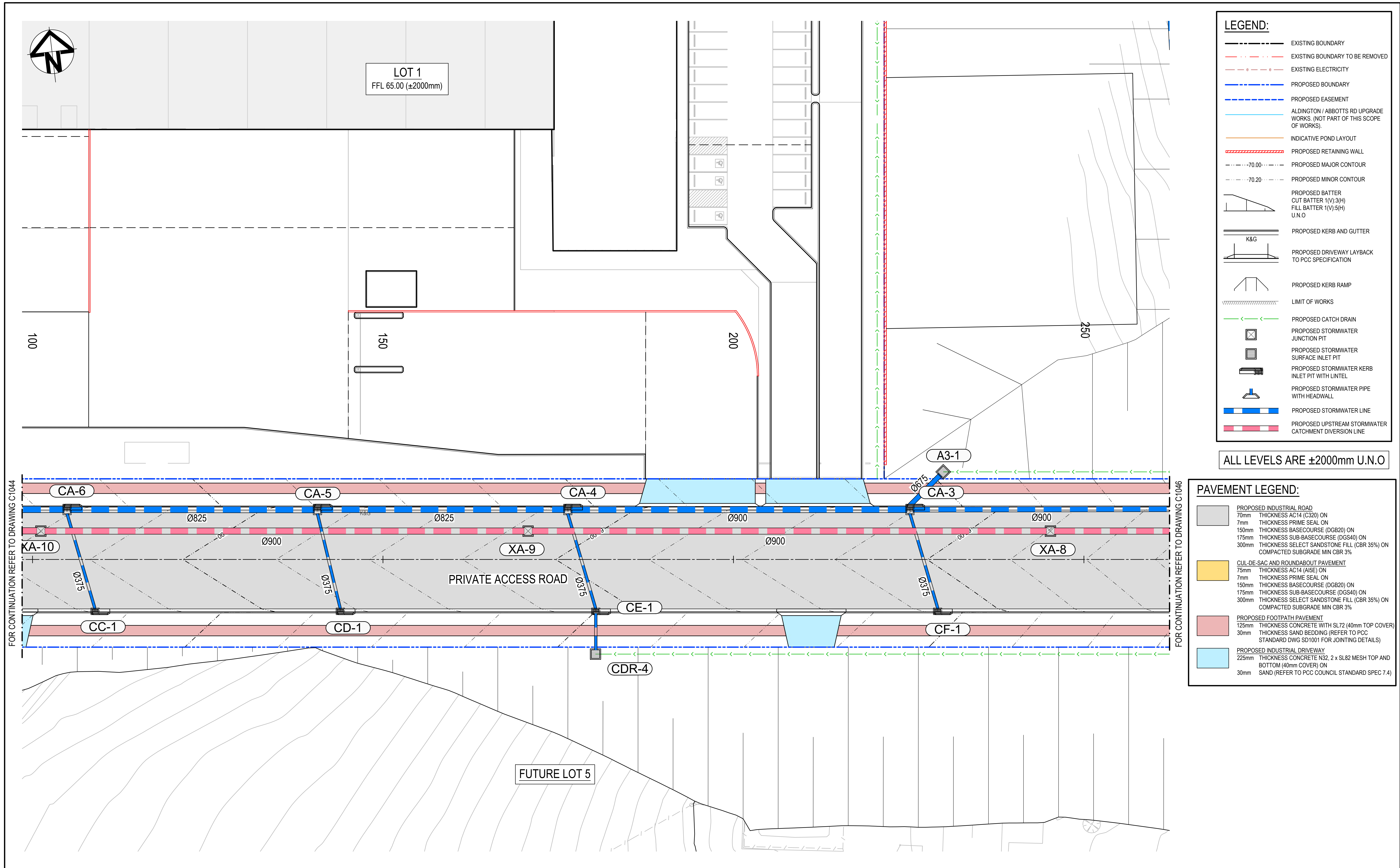


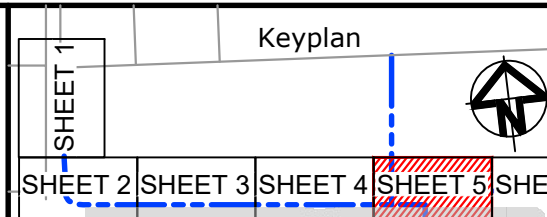













			Bar Scales			Client 	Scales 1 : 250		Drawn LM		Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers  <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>		
							Grid MGA2020		Designed LM			Title ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 5		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 20-748-C1045
B RE-ISSUED FOR DEVELOPMENT APPLICATION 19-10-22			A RE-ISSUED FOR DEVELOPMENT APPLICATION 29-08-22				Height Datum AHD		Checked AT				Issue B	
Issue			Description		Date				Approved					





**LEGEND:**

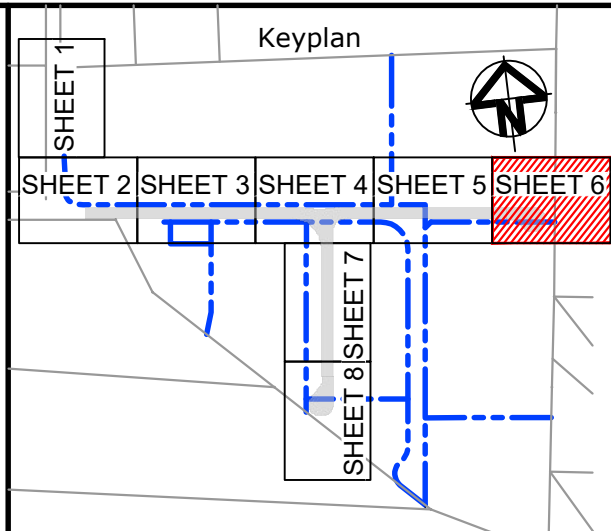
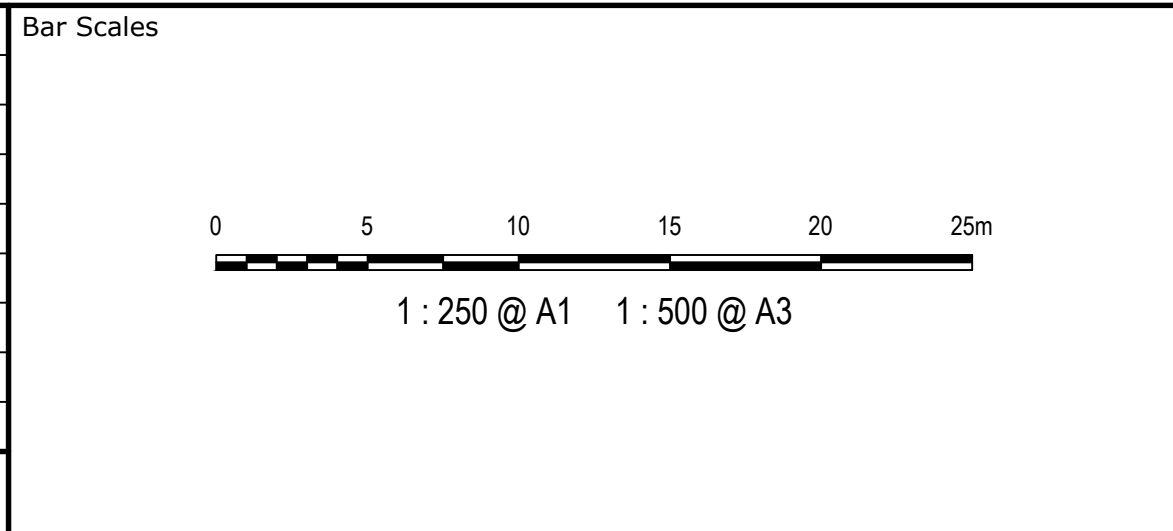
- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- ALDINGTON / ABBOTTS RD UPGRADE WORKS, (NOT PART OF THIS SCOPE OF WORKS).
- INDICATIVE POND LAYOUT
- PROPOSED RETAINING WALL
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED BATTER  
CUT BATTER 1(V):3(H)  
FILL BATTER 1(V):5(H)  
U.N.O
- PROPOSED KERB AND GUTTER
- PROPOSED DRIVEWAY LAYBACK TO PCC SPECIFICATION
- PROPOSED KERB RAMP
- LIMIT OF WORKS
- PROPOSED CATCH DRAIN
- PROPOSED STORMWATER JUNCTION PIT
- PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
- PROPOSED STORMWATER PIPE WITH HEADWALL
- PROPOSED STORMWATER LINE
- PROPOSED UPSTREAM STORMWATER CATCHMENT DIVERSION LINE

ALL LEVELS ARE ±2000mm U.N.O

**PAVEMENT LEGEND:**

- PROPOSED INDUSTRIAL ROAD**  
70mm THICKNESS AC14 (C320) ON  
7mm THICKNESS PRIME SEAL ON  
150mm THICKNESS BASECOURSE (DGB20) ON  
175mm THICKNESS SUB-BASECOURSE (DGS40) ON  
300mm THICKNESS SELECT SANDSTONE FILL (CBR 35%) ON  
COMPACTED SUBGRADE MIN CBR 3%
- CUL-DE-SAC AND ROUNDABOUT PAVEMENT**  
75mm THICKNESS AC14 (A1E) ON  
7mm THICKNESS PRIME SEAL ON  
150mm THICKNESS BASECOURSE (DGB20) ON  
175mm THICKNESS SUB-BASECOURSE (DGS40) ON  
300mm THICKNESS SELECT SANDSTONE FILL (CBR 35%) ON  
COMPACTED SUBGRADE MIN CBR 3%
- PROPOSED FOOTPATH PAVEMENT**  
125mm THICKNESS CONCRETE WITH SL72 (40mm TOP COVER)  
30mm THICKNESS SAND BEDDING (REFER TO PCC STANDARD DWG SD1001 FOR JOINTING DETAILS)
- PROPOSED INDUSTRIAL DRIVEWAY**  
225mm THICKNESS CONCRETE N32, 2 x SL82 MESH TOP AND BOTTOM (40mm COVER) ON  
30mm SAND (REFER TO PCC COUNCIL STANDARD SPEC 7.4)

B	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
A	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Issue	Description	Date



Client

**ESR**

Scales	1 : 250	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
<b>GDA2020</b>			
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Project **PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK**

Title **ROADWORKS AND STORMWATER DRAINAGE 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. **20-748-C1046**

Issue **A1**  
B

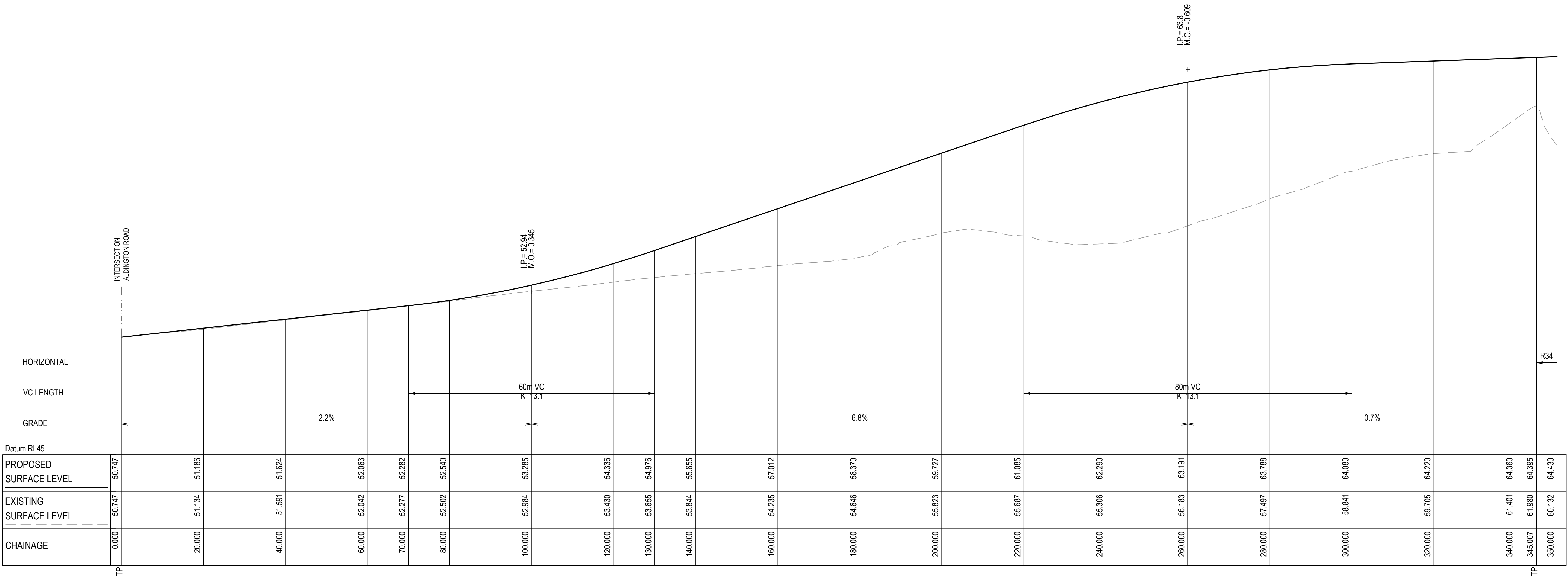








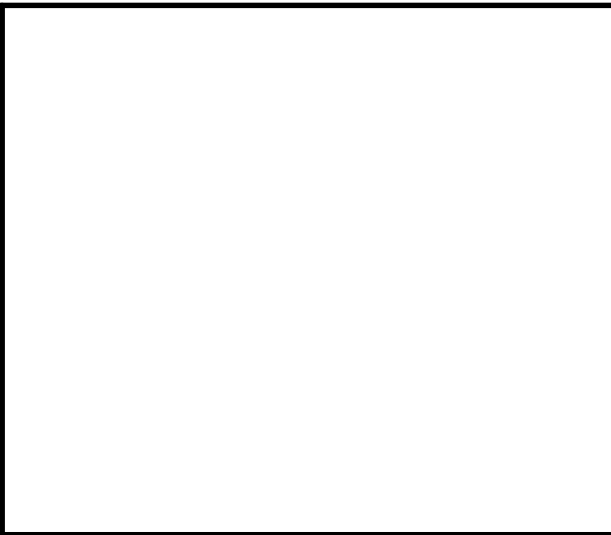
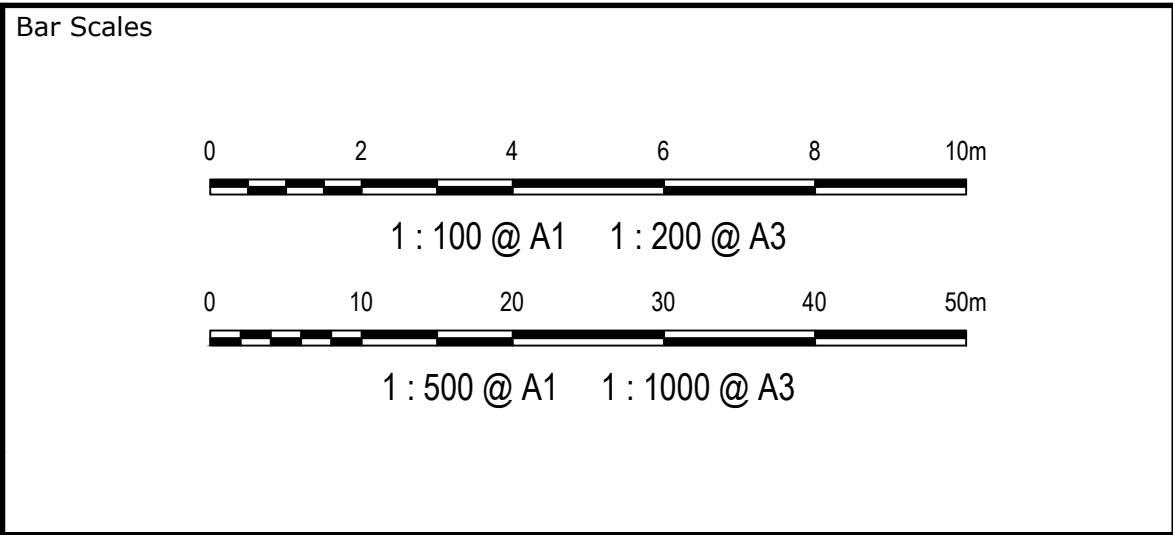




ABBOTTS ROAD (MC01) LONGITUDINAL SECTION

SCALE 1:500 HORI.  
1:100 VERT.

G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date

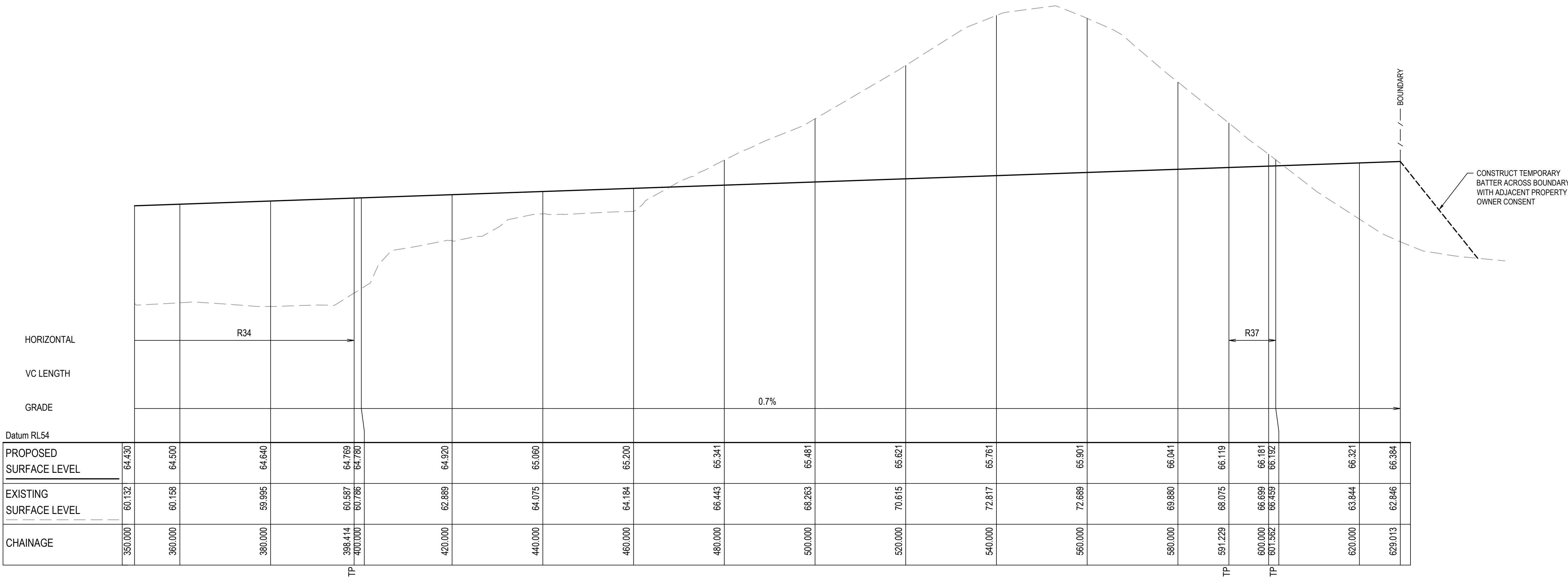


Scales	1 : 100 V 1 : 500 H	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
GDA2020			
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			

Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	ABBOTTS ROAD (MC01) 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.	20-748-C1050	Issue G



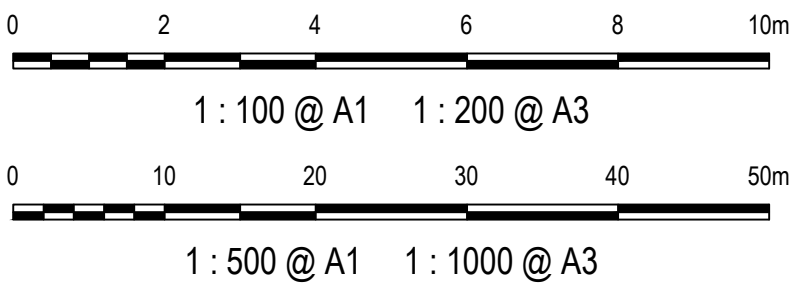


ABBOTTS ROAD (MC01) LONGITUDINAL SECTION - CONTINUED

SCALE 1:500 HORI.  
1:100 VERT.

G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date

Bar Scales



Client



Scales

1 : 100 V

1 : 500 H

Drawn

LM

Designed

LM

Grid

MGA2020

Checked

AT

Height

AHD

Approved

Datum

**GDA2020**

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Project

**PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK**

Title

**ABBOTTS ROAD (MC01) LONGITUDINAL SECTION 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**

Project - Drawing No.

**20-748-C1051**

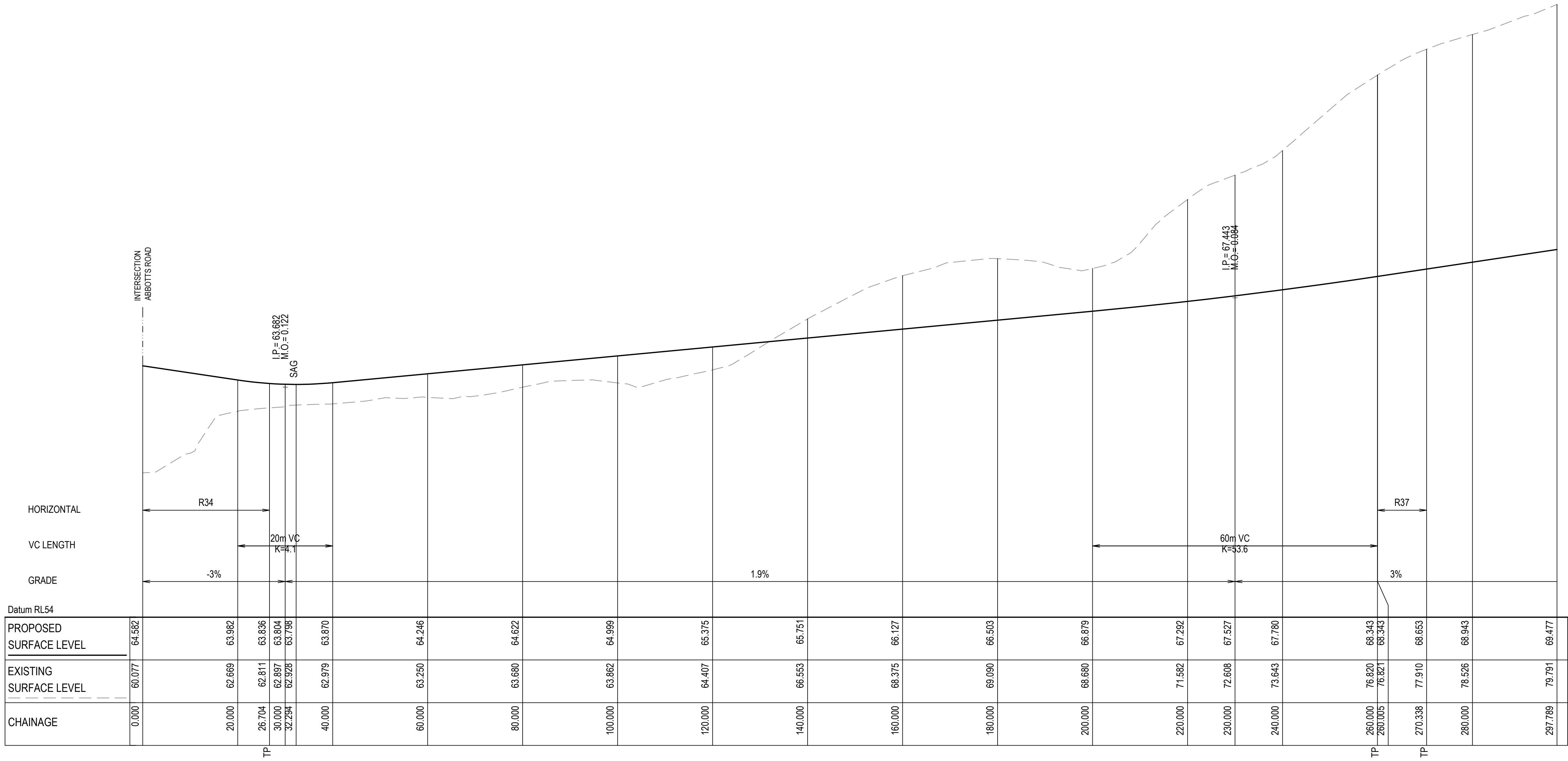
Issue

**A1**

Issue

**G**

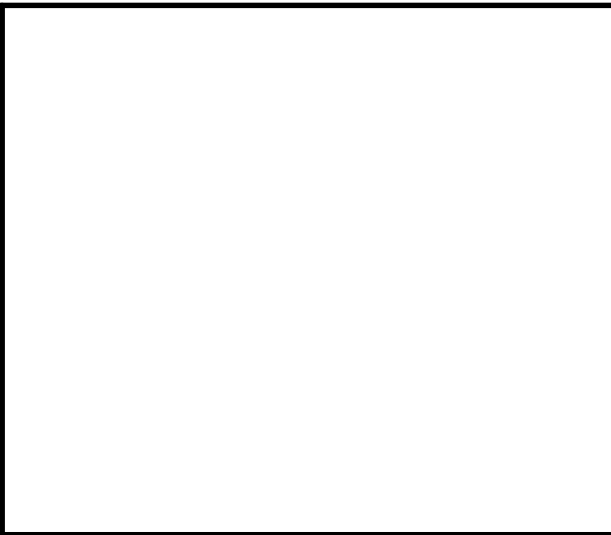
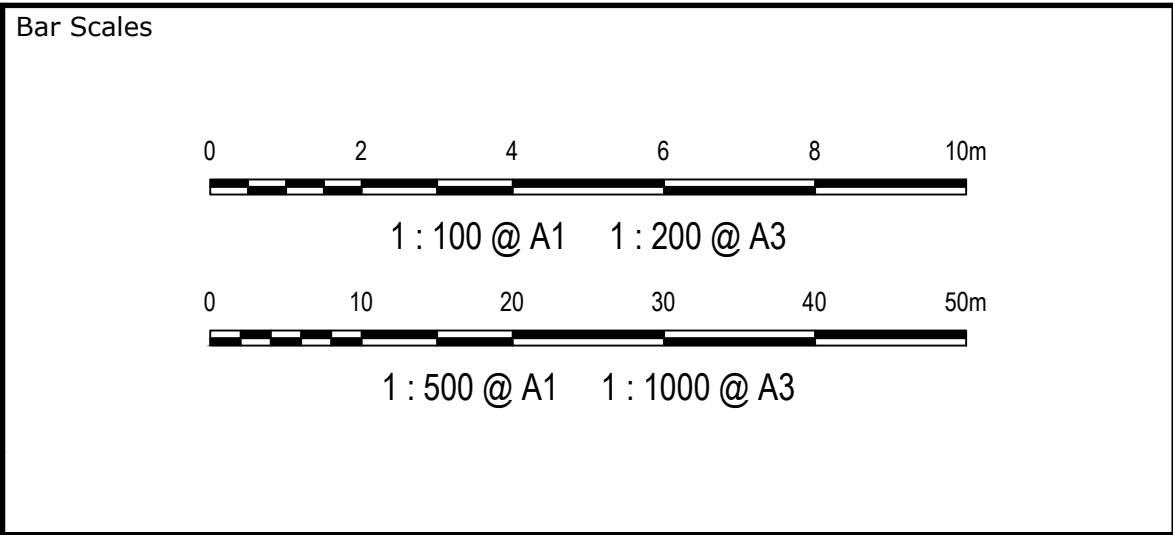




PRIVATE ACCESS ROAD (MC04) LONGITUDINAL SECTION

SCALE 1:500 HORI.  
1:100 VERT.

G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date

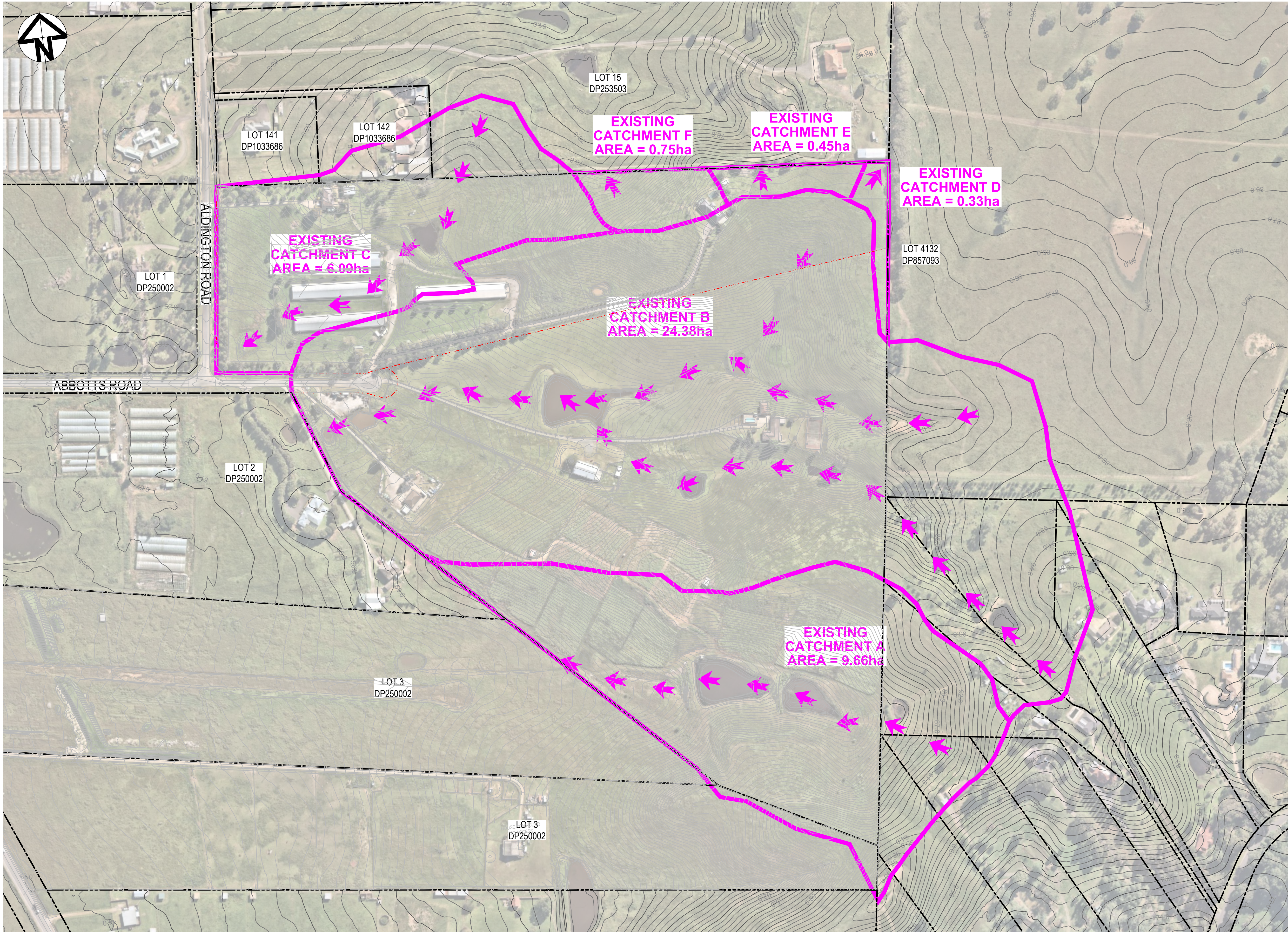


Scales	1 : 100 V 1 : 500 H	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
GDA2020			
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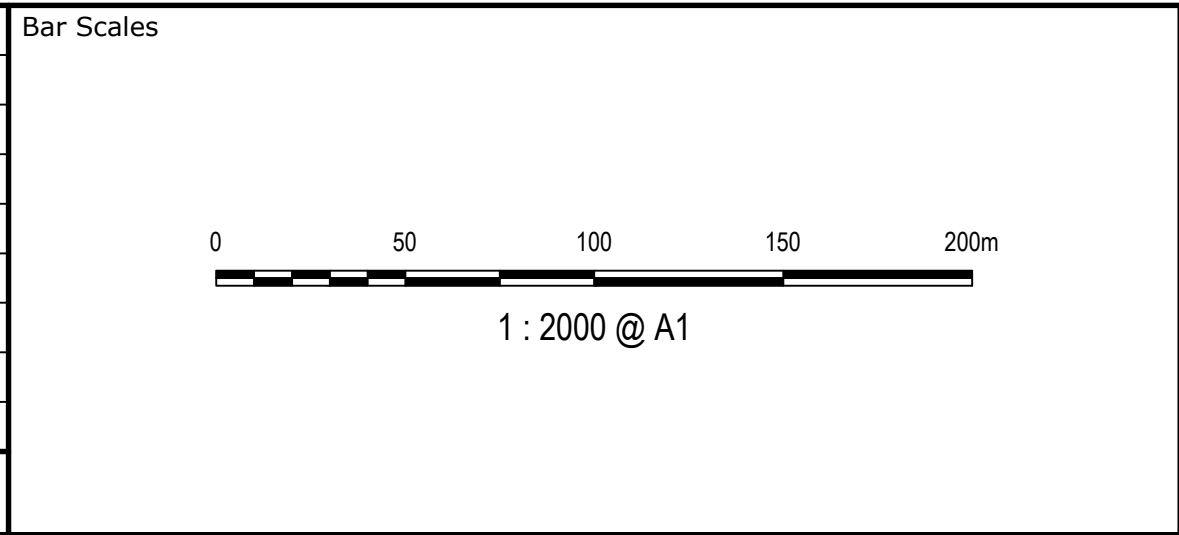
Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	PRIVATE ACCESS ROAD (MC04) LONGITUDINAL SECTION SHEET 3

Civil Engineers and Project Managers		
at&l		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	20-748-C1052	Issue G





G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date



Client

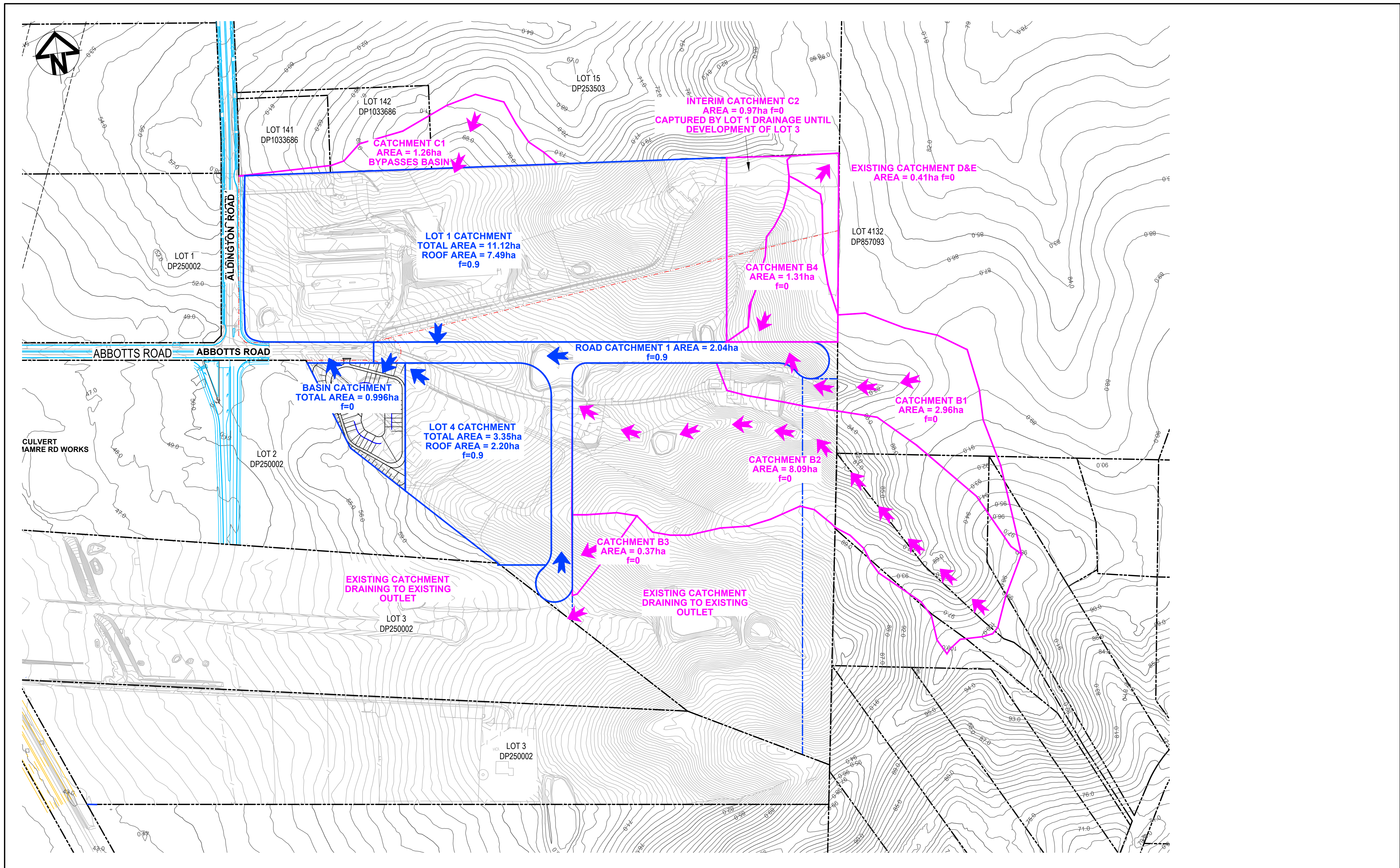





Scales	1 : 2000	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&I			

Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)

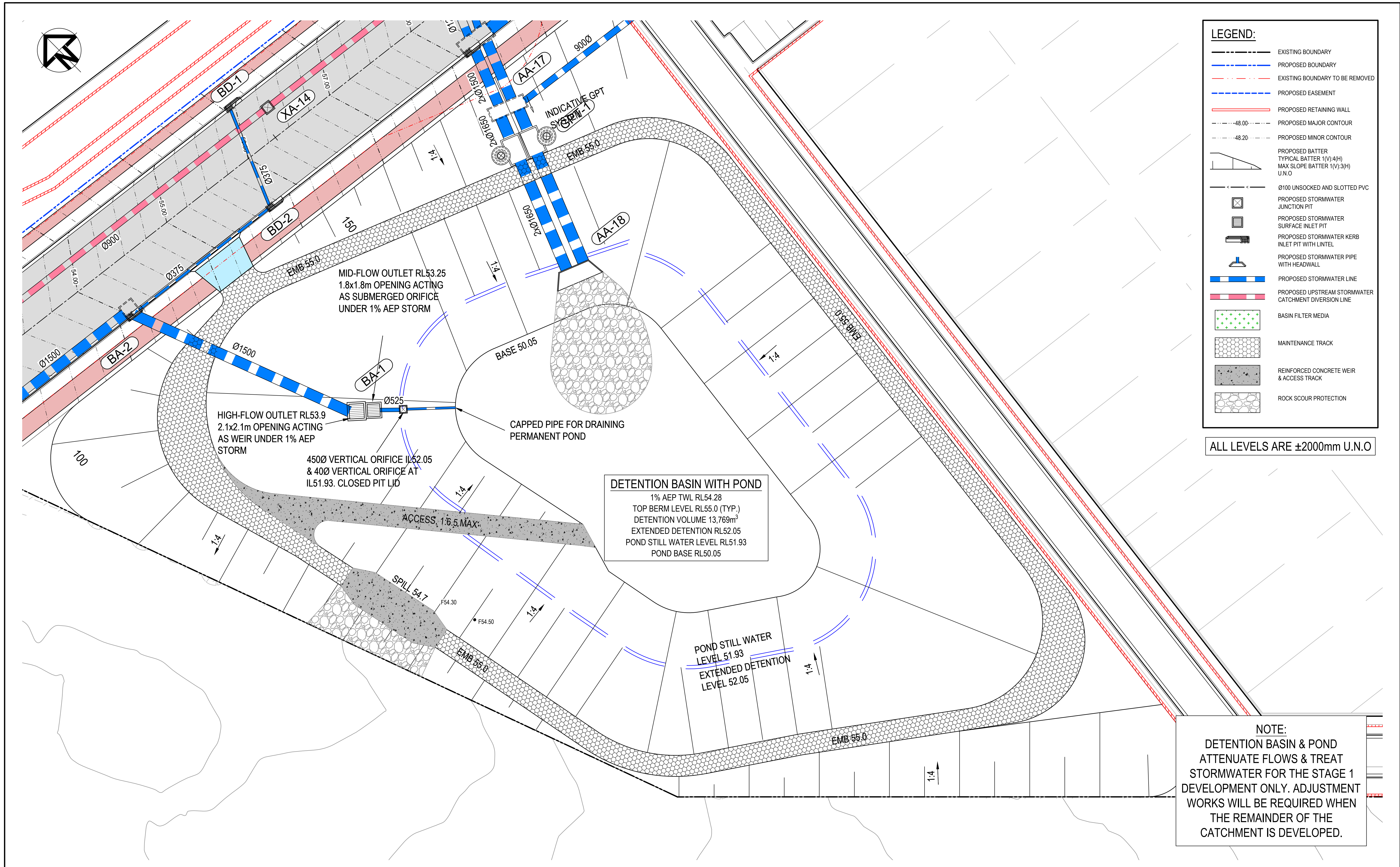
Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	20-748-C1061	Issue G



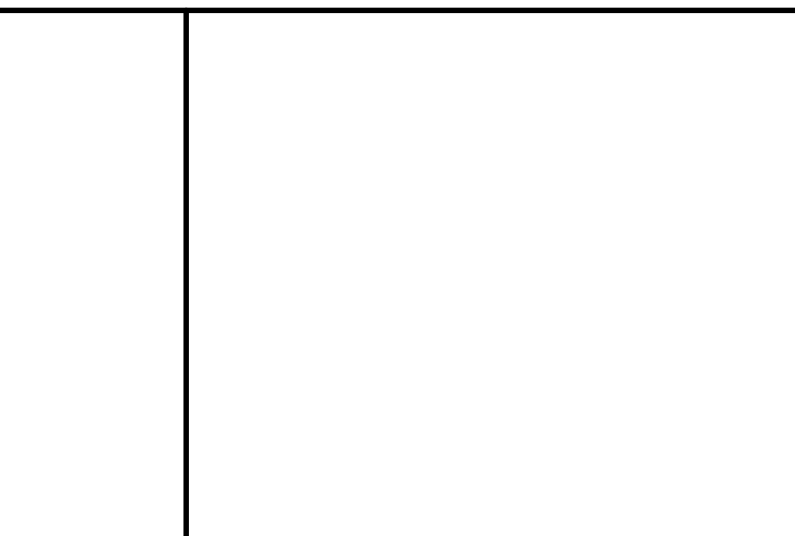
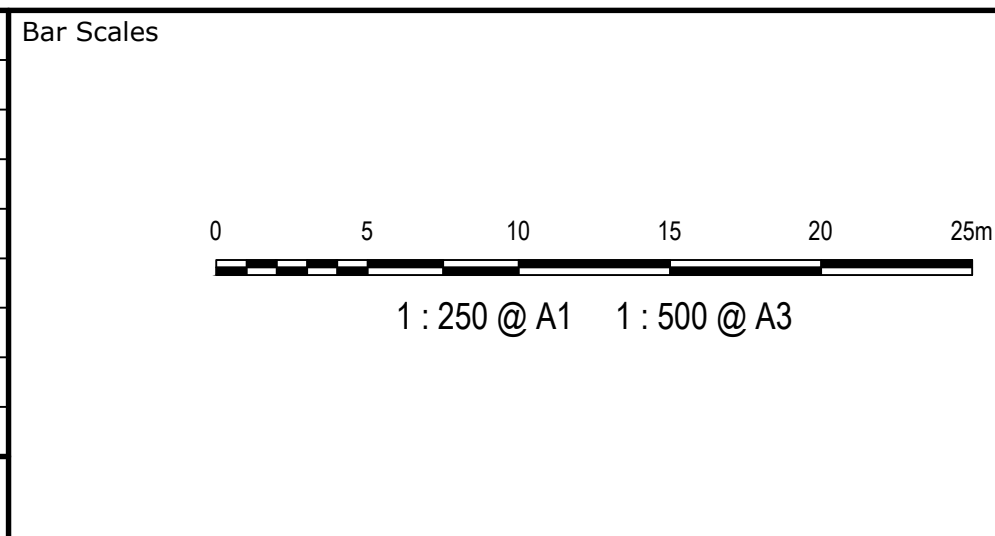


			<div>Bar Scales</div> <div></div>		<div>Client</div> <div></div>	<div>Scales</div> <div>1 : 2000</div>	<div>Drawn</div> <div>LM</div>	<div>Project</div> <div>PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK</div>	<div>Civil Engineers and Project Managers</div> <div><div>Level 7, 153 Walker Street 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>			
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22									<div>Designed</div> <div>LM</div>	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22									<div>Checked</div> <div>AT</div>	
E	RTS SUBMISSION	08-04-22									<div>Approved</div> <div></div>	
D	RTS ISSUE	11-11-21								<div>Title</div> <div>STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)</div>		
C	RTS ISSUE	12-10-21								<div>Status</div> <div>FOR APPROVAL</div>		
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21								<div>NOT TO BE USED FOR CONSTRUCTION</div>		
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20								<div>Project - Drawing No.</div> <div>20-748-C1065</div>		
										<div>Issue</div> <div>G</div>		
Issue	Description	Date										





Issue	Description	Date
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS ISSUE	11-11-21
D	ISSUED FOR DEVELOPMENT APPLICATION	12-10-21
C	RTS ISSUE	26-04-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20



Client	
Scales	1 : 250
Grid	MGA2020
Height Datum	AHD

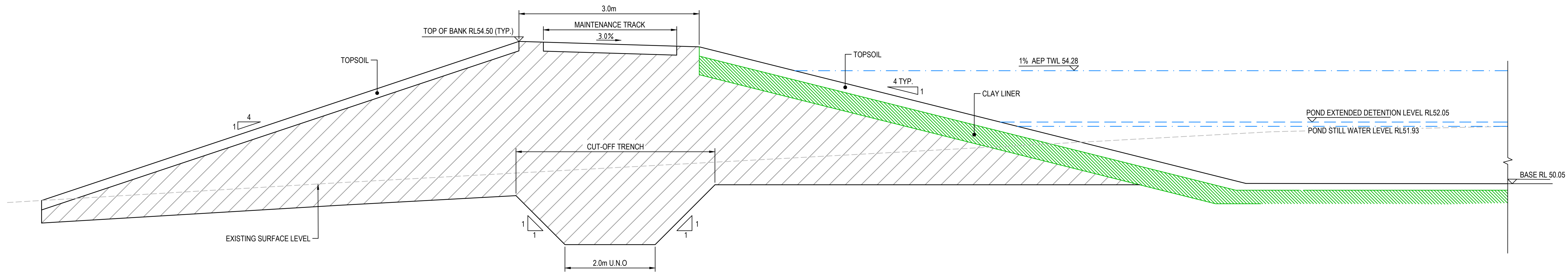
Drawn	LM
Designed	LM
Checked	AT
Approved	

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Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	DETENTION BASIN & POND DETAIL PLAN




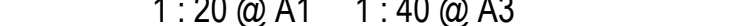

Civil Engineers and Project Managers	
at&l	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	20-748-C1071
Issue	G



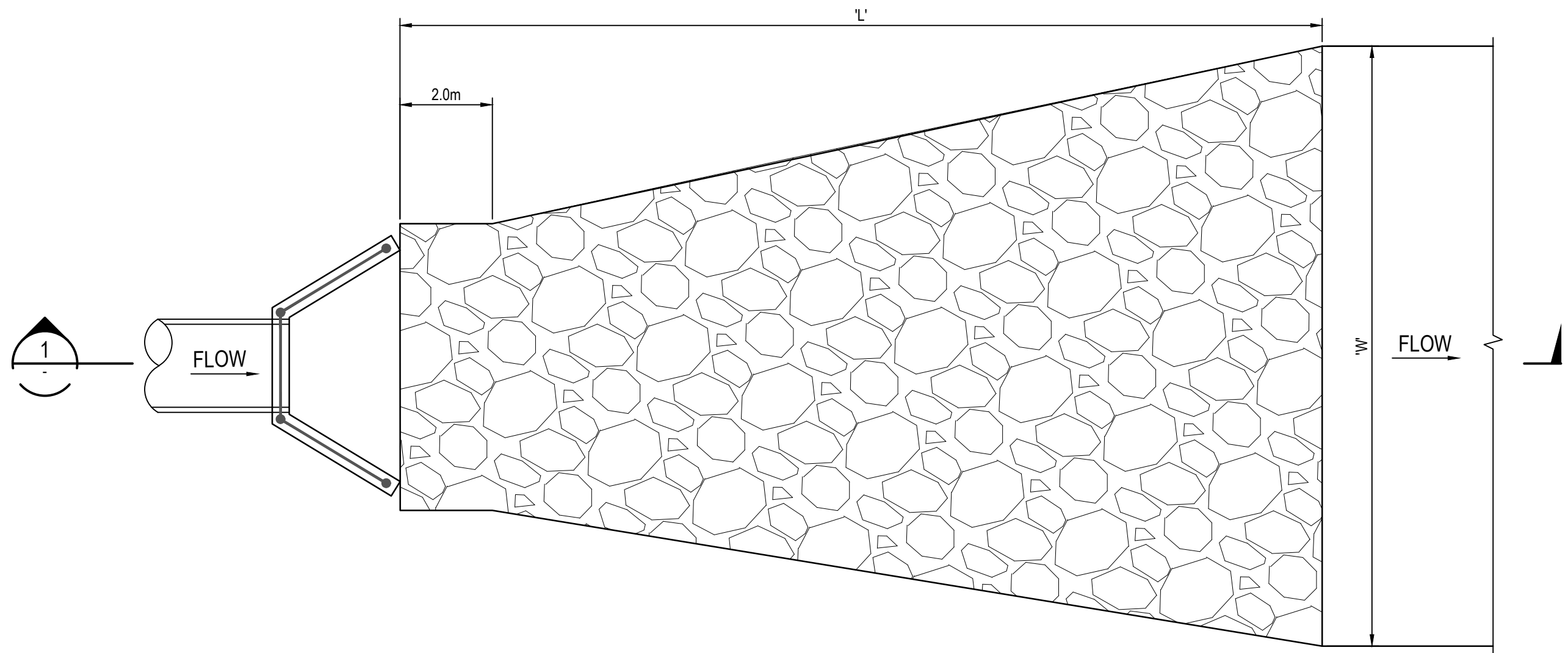


TYPICAL SECTION DETENTION BASIN & POND

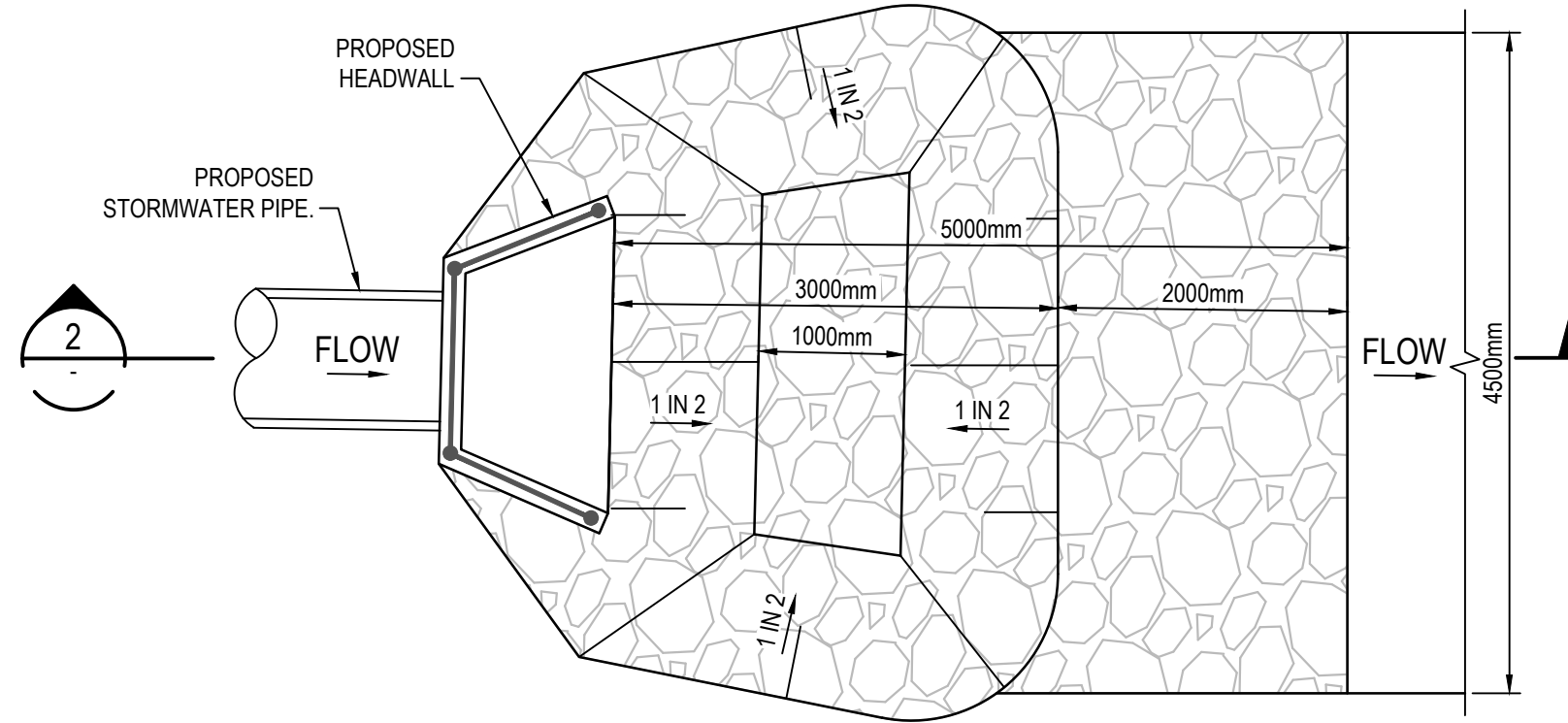
SECTION 1  
1 : 50 C1071

			Bar Scales		Client	<div></div>	Scales		Drawn		Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers						
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	<div> 1 : 20 @ A1    1 : 40 @ A3</div>				1 : 50		LM			<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>						
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22					Designed		LM									
E	RTS ISSUE	11-11-21	<div> 1 : 50 @ A1    1 : 100 @ A3</div>				Grid		Checked			AT		Title  DETENTION BASIN & POND SECTION				
D	ISSUED FOR DEVELOPMENT APPLICATION	12-10-21					MGA2020		Approved									
C	RTS ISSUE	12-10-21					Height Datum		AHD					Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 20-748-C1072				
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21															Issue G	
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20																
Issue	Description	Date					<div></div> <div>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;I</div>											

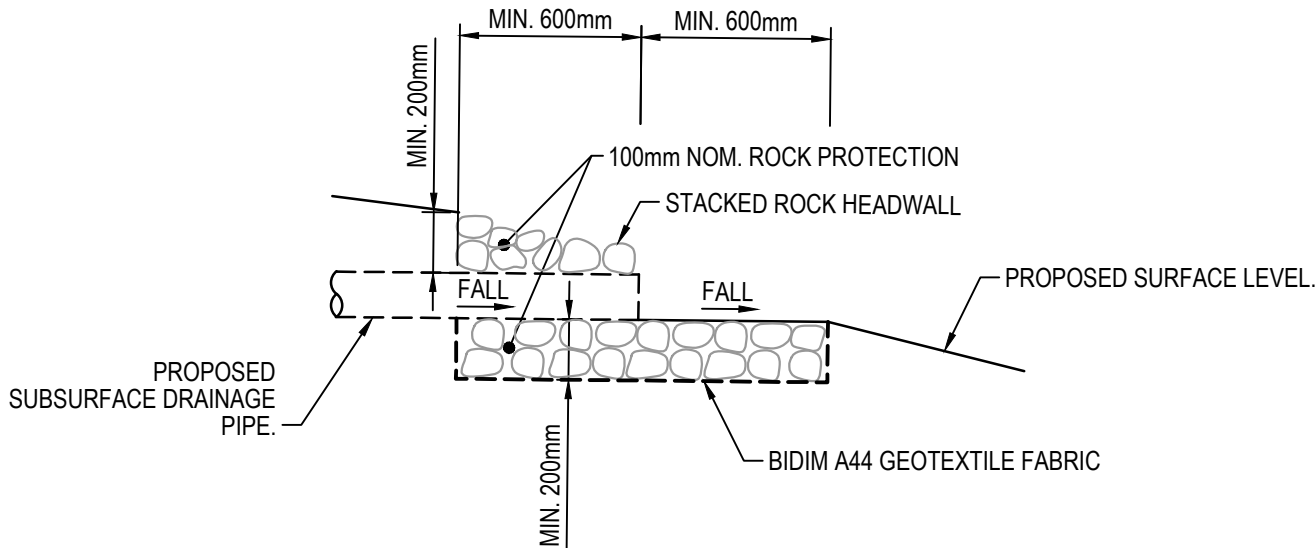




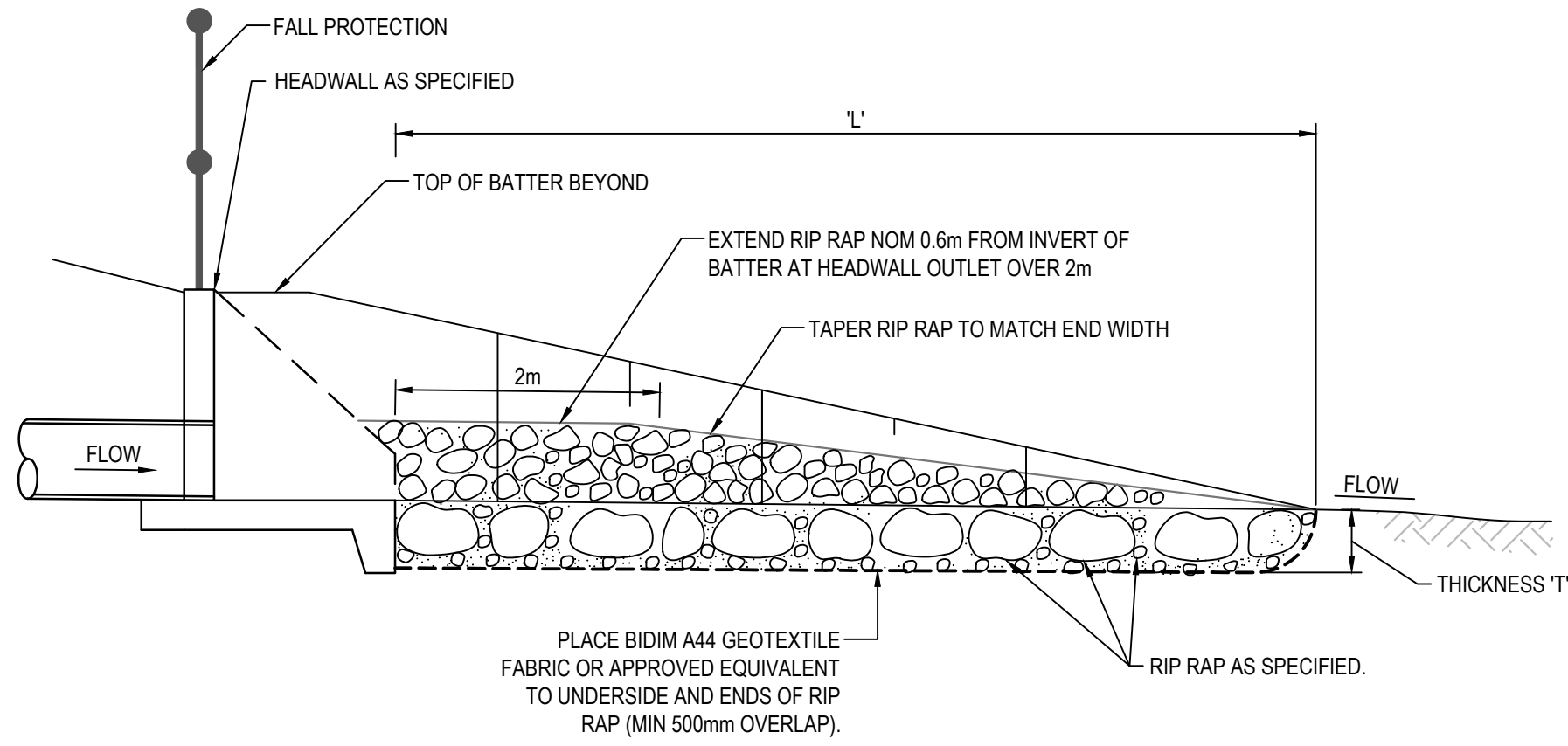
**RIP RAP OUTLET PROTECTION**  
**TYPE 1 DETAIL**  
 1 : 100



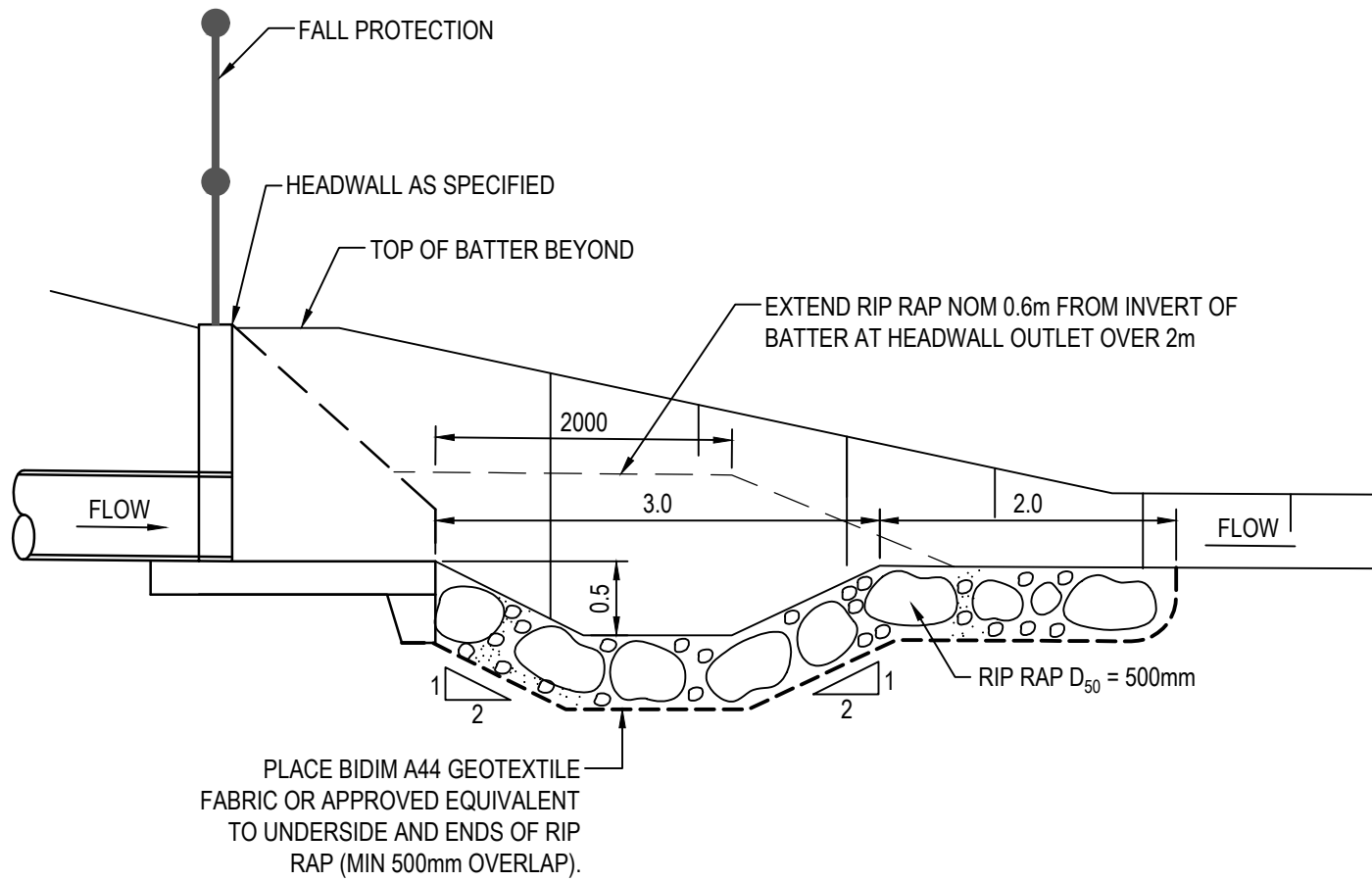
**RIP RAP ENERGY DISSIPATER**  
**DETAIL**  
 1 : 50



**SUBSURFACE DRAINAGE TAILOUT DETAIL**  
 1 : 25



**SECTION 1**  
 NTS

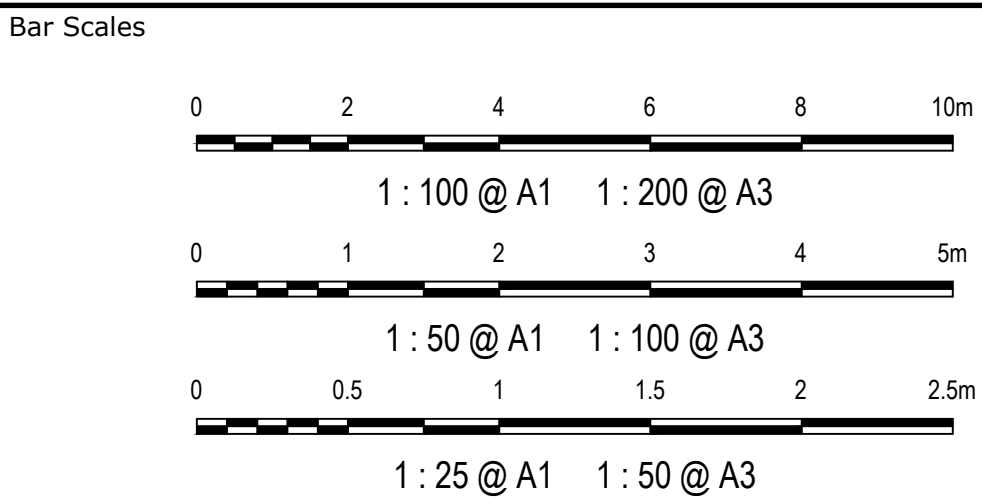


**SECTION 2**  
 NTS

**ROCK GRADATION TABLE**

ROCK SIZE (mm)	d <sub>50</sub>					ROCK DISTRIBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
400	600	750	850	900		15-25%
300	400	525	600	750		20%
200	300	400	500	600		50%
75	100	150	150	200		15-25%

B	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
A	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Issue	Description	Date

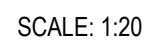
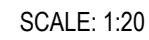


Scales	AS SHOWN	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
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Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	STORMWATER DRAINAGE DETAILS SHEET 1

Civil Engineers and Project Managers	
Status	FOR APPROVAL
Project - Drawing No.	20-748-C1075
Issue	B





CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE  
DESIGNED AND APPROVED BY STRUCTURAL ENGINEER



CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE  
DESIGNED AND APPROVED BY STRUCTURAL ENGINEER

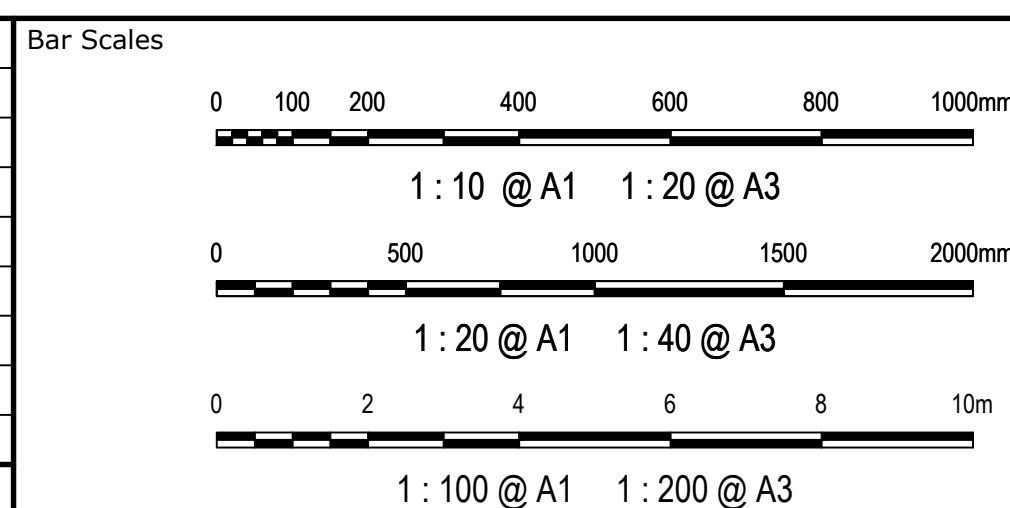
NOTE: STRUCTURAL DETAIL OF PITS TO BE CONFIRMED  
AT DETAILED DESIGN



REFER PIT SETOUT PLANS  
FOR ENLARGED CHAMBERS


NOTE

1. STANDARD GULLY PITS REFER TO PENRITH CITY COUNCIL STANDARD DRAWING SD2001 FOR DETAILS
2. FOR INLET SIZE REFER TO STORMWATER LONGITUDINAL SECTIONS ON DRAWING C4055 - C4059
3. FOR PIT CHAMBER SIZE REFER TO PIT SCHEDULE.
4. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 1" BARS (500x500) AT 400 VERTICAL CTS.
5. COMPRESSIVE STRENGTH (F<sub>c</sub>) FOR CAST IN SITU CONCRETE SHALL BE CONFIRMED BY CONTRACTOR AND STRUCTURAL ENGINEER
6. TOP OF BENCHING SHALL BE  $\frac{1}{2}$  OF OUTLET PIPE DIAMETER.
7. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
8. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
9. PIT GRATE TO BE "WELDLOK" GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
10. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN INTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
11. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
12. CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER

100mm on Original

Client

Scales

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STORMWATER DRAINAGE  
DETAILS  
SHEET 2

Civil Engineers and Project Managers

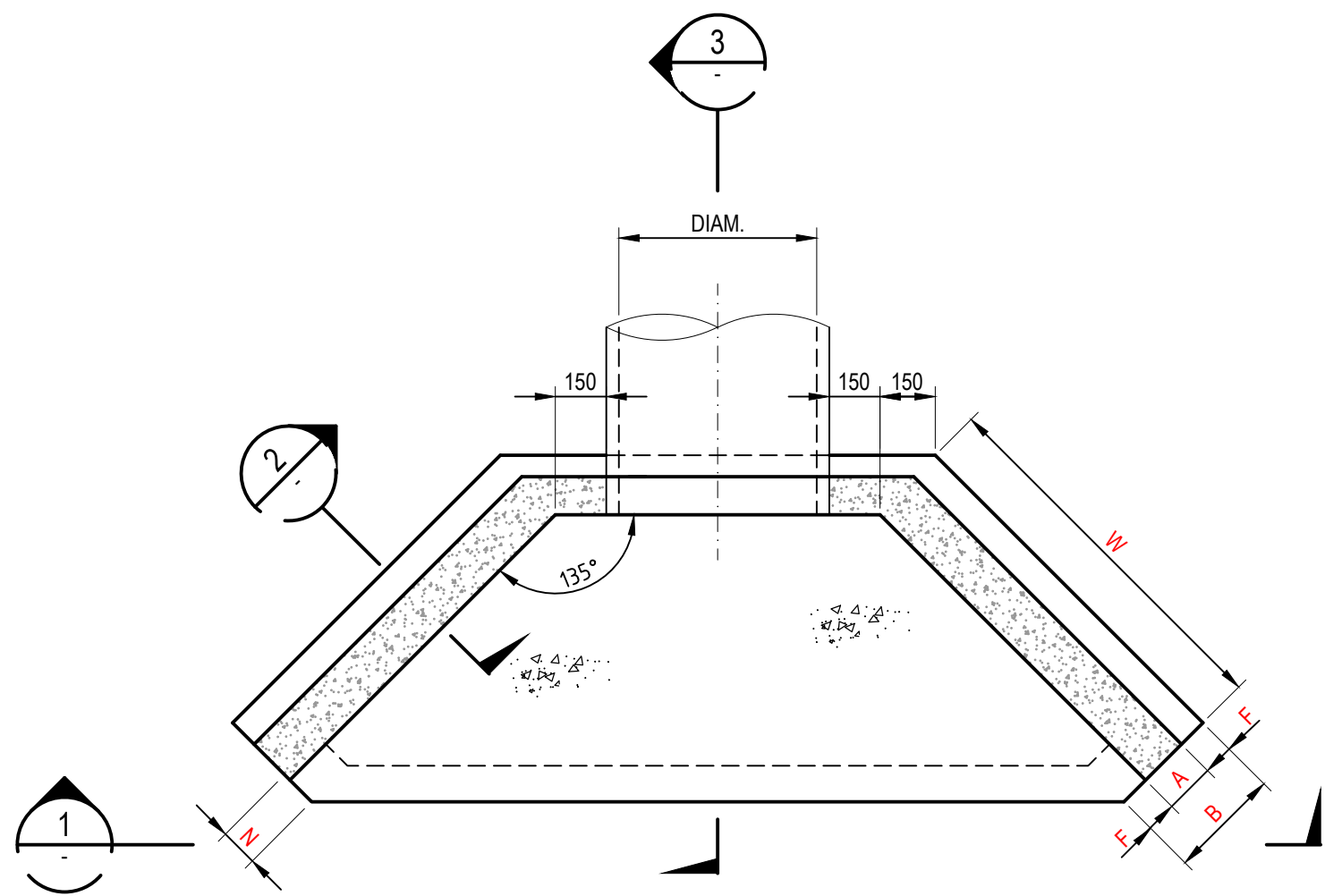


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[www.atl.net.au](http://www.atl.net.au)  
[info@atl.net.au](mailto:info@atl.net.au)

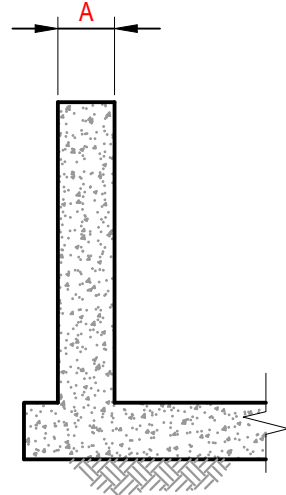
Status **FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

Issue  
D

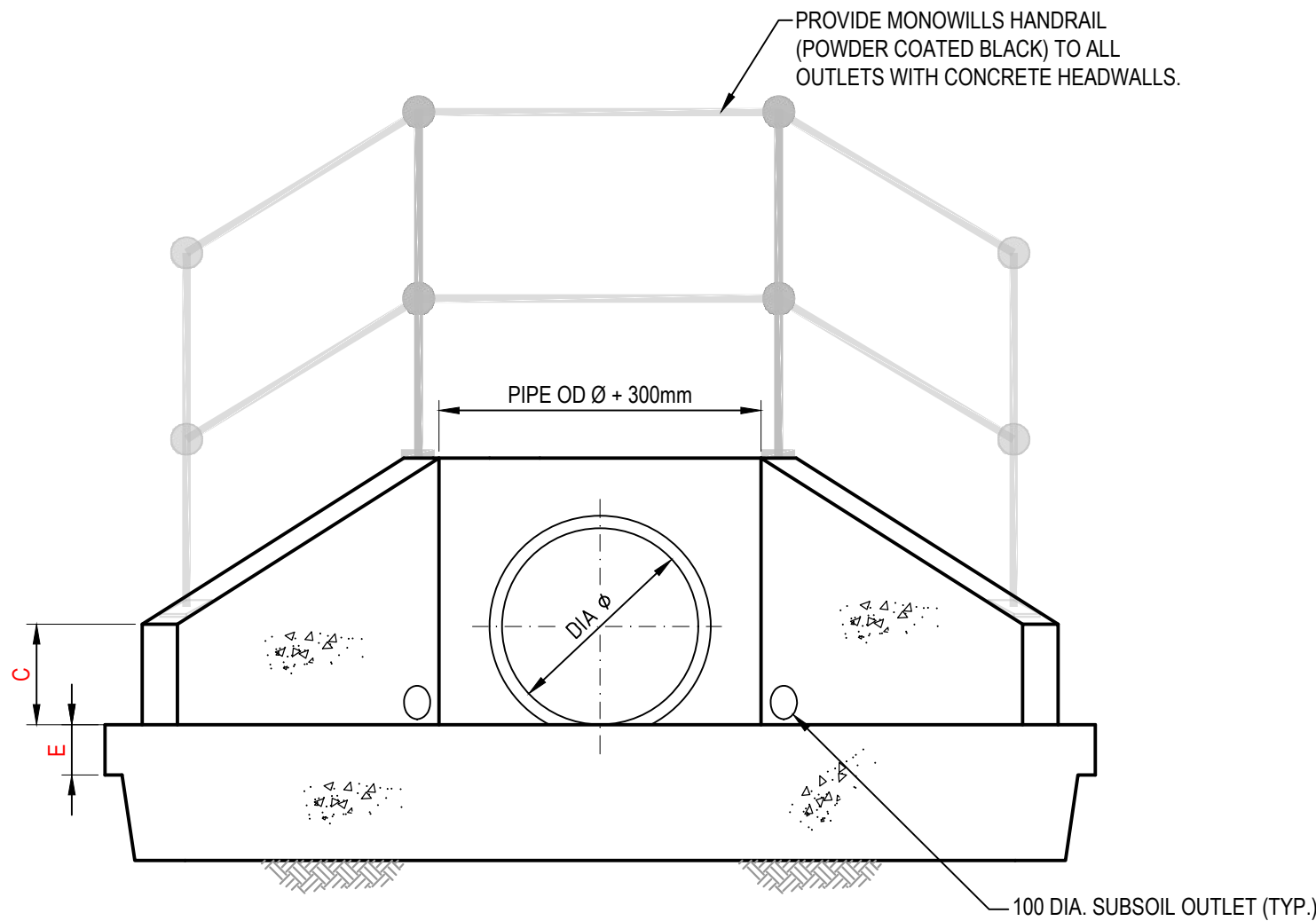




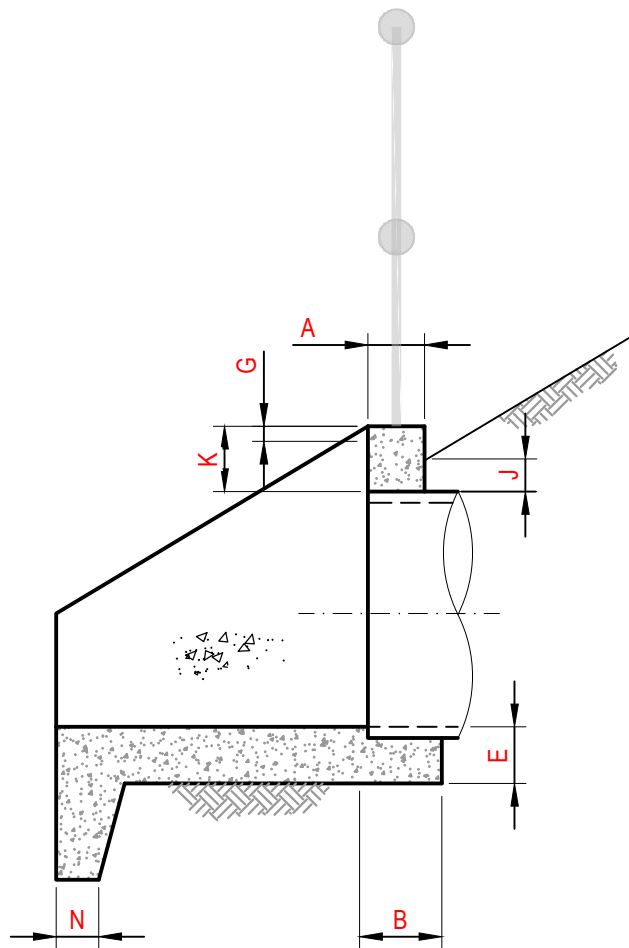
HEADWALL TYPE "A"  
PLAN



SECTION 2  
SCALE 1 : 20



SECTION 1  
SCALE 1 : 20



SECTION 3  
SCALE 1 : 20

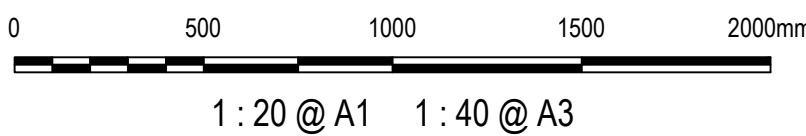
HEADWALL TYPE "A" - SINGLE PIPE

PIPE DIAMETER	300	375	450	525	600	675	750	825	900	1050	1200	1350	1500	1650	1800
A	150	150	150	175	175	175	200	200	225	225	225	250	250	250	250
B	300	300	300	375	375	375	450	450	525	525	525	550	550	550	550
C	300	300	300	300	350	350	350	350	350	350	350	350	350	350	350
D	375	375	375	375	530	530	530	530	530	530	530	530	530	530	530
E	150	150	150	150	175	175	200	200	225	225	225	225	225	225	225
F	75	75	75	100	100	100	125	125	150	150	150	150	150	150	150
G	40	40	40	40	50	50	50	50	50	50	50	50	50	50	50
J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
K	200	200	200	200	300	300	300	300	300	300	300	300	300	300	300
N	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
W	700	700	850	1000	1100	1300	1450	1600	1750	1950	2200	2500	2700	2800	2900

- NOTES
- COMPRESSIVE STRENGTH (F<sub>c</sub>) FOR CAST-IN-SITU CONCRETE TO BE A MINIMUM OF 32mPa AT 28 DAYS.
  - 25mm CHAMFER ON ALL EXPOSED SURFACES.
  - CONTRACTOR TO DESIGN AND PROVIDE STRUCTURAL CERTIFICATE FOR ALL PITS / END STRUCTURES UNLESS ADAPTING PENRITH CITY COUNCIL STANDARD DETAILS WHERE APPLICABLE.
  - ANTI GRAFFITI PAINT TO BE APPLIED TO FACE OF ALL HEADWALLS

B	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
A	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Issue	Description	Date

Bar Scales



Client



Scales

AS SHOWN

Drawn

LM

Designed

LM

Grid

MGA2020

Checked

AT

Height

AHD

Approved

Datum

GDA2020

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Project

PROPOSED INDUSTRIAL  
DEVELOPMENT  
WESTLINK  
KEMPS CREEK

Title

STORMWATER DRAINAGE  
DETAILS  
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.

20-748-C1077

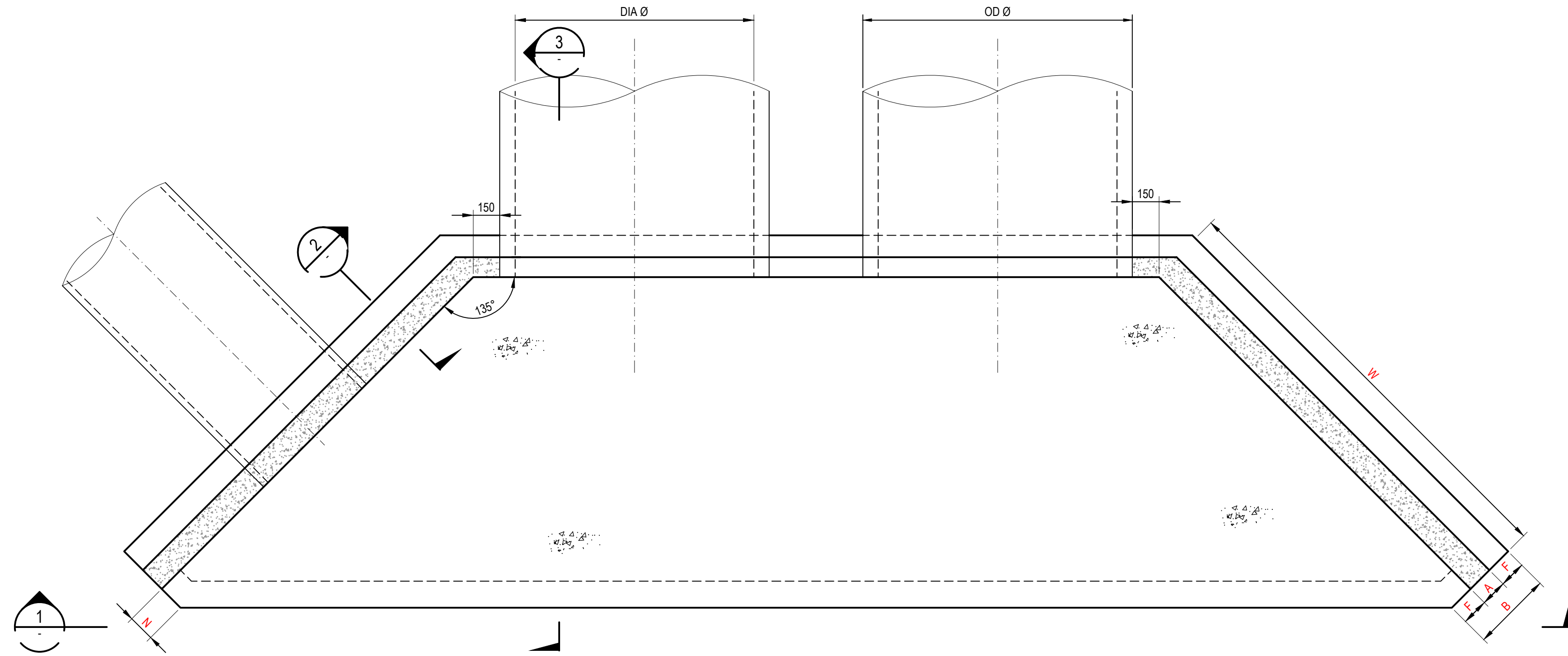
Issue

A1

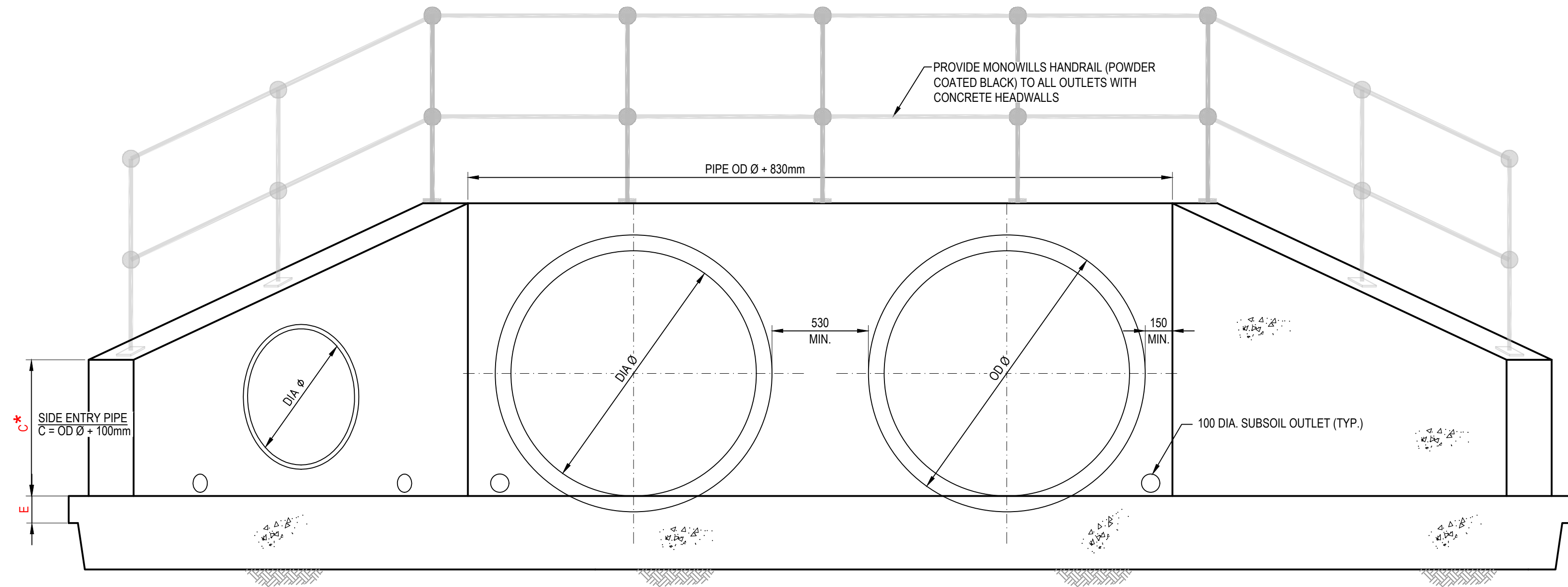
Issue

B

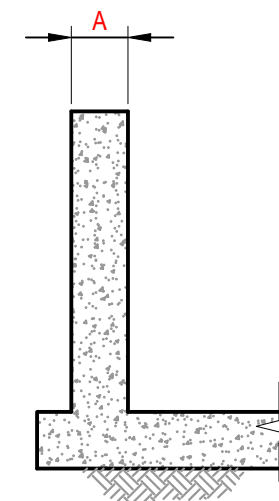




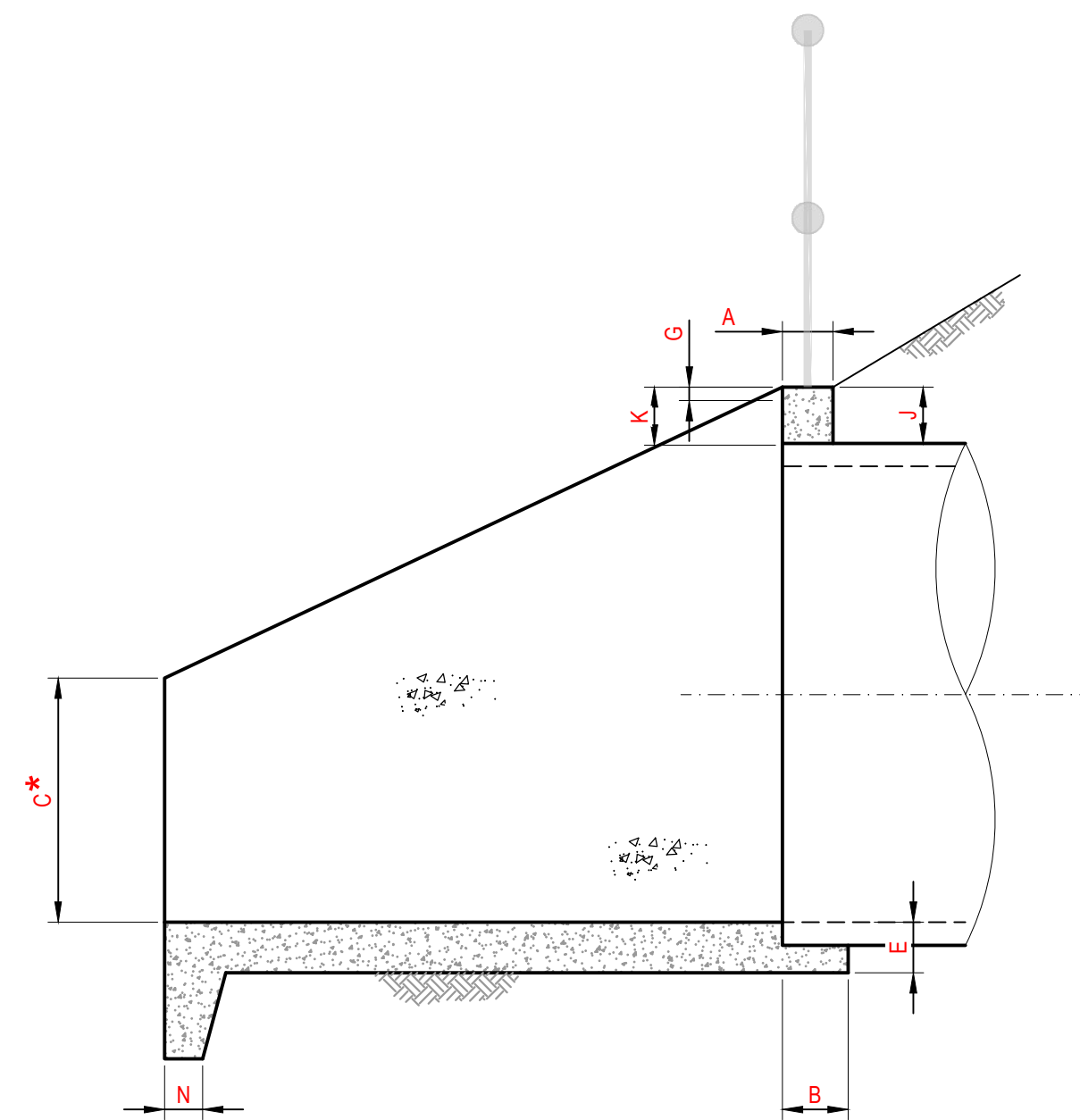
HEADWALL TYPE "B" - DUAL (1200Ø & 1350Ø)  
PLAN



SECTION 1  
SCALE 1 : 20  
ELEVATION



SECTION 2  
SCALE 1 : 20



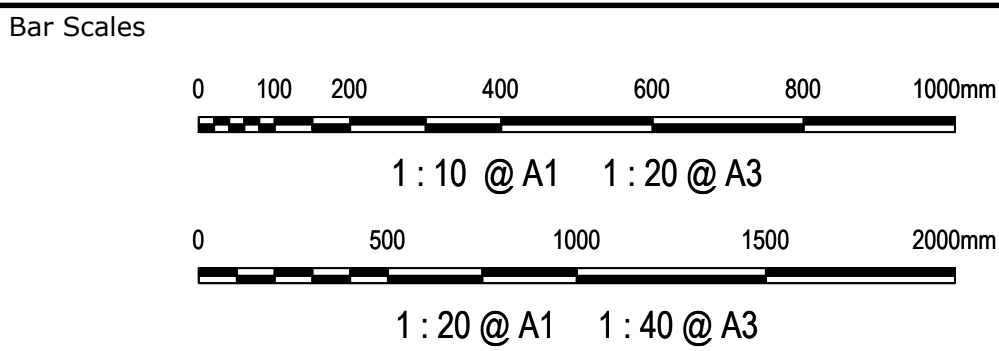
SECTION 3  
SCALE 1 : 20

HEADWALL TYPE "B" - TWIN PIPE

PIPE DIAMETER	525	1050
A	175	225
B	450	525
C	300	350
D	375	530
E	150	225
F	138	150
G	40	50
J	100	100
K	200	300
N	150	150
W	1000	1950
M	2200	3700

- NOTES
- COMPRESSIVE STRENGTH ( $F_c$ ) FOR CAST-IN-SITU CONCRETE TO BE A MINIMUM OF 32MPa AT 28 DAYS
  - 25mm CHAMFER ON ALL EXPOSED SURFACES.
  - CONTRACTOR TO DESIGN AND PROVIDE STRUCTURAL CERTIFICATE FOR ALL PITS / END STRUCTURES UNLESS ADAPTING PENRITH CITY COUNCIL STANDARD DETAILS WHERE APPLICABLE.
  - ANTI GRAFFITI PAINT TO BE APPLIED TO FACE OF ALL HEADWALLS

B	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
A	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Issue	Description	Date



Client

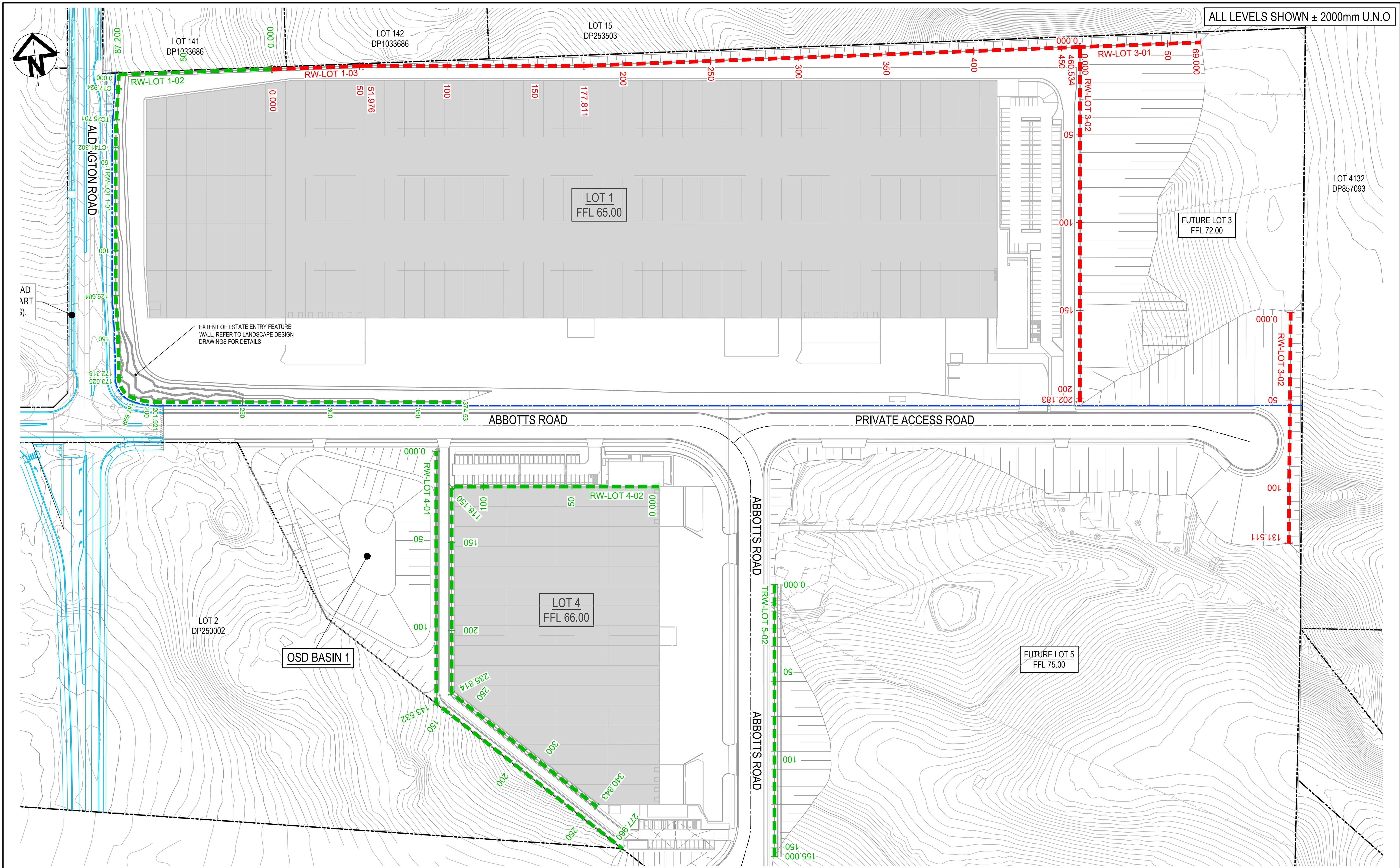


Scales	AS SHOWN	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
GDA2020			
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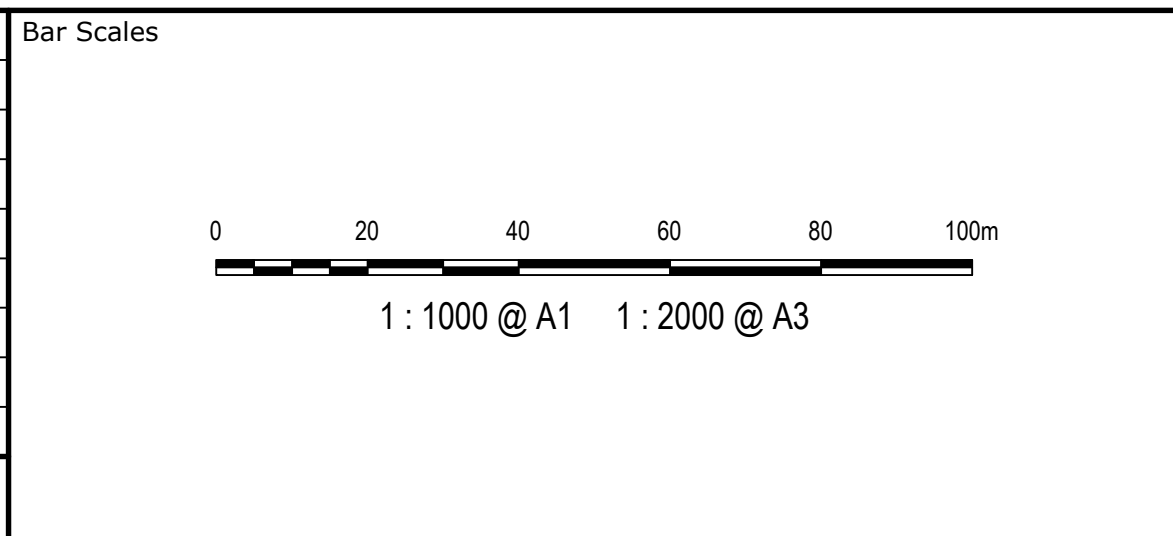
Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	STORMWATER DRAINAGE DETAILS SHEET 4

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.	20-748-C1078	Issue B







G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS ISSUE	11-11-21
D	ISSUED FOR DEVELOPMENT APPLICATION	12-10-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date



Client



Scales	1 : 1000	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
			
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Project

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

Title

RETAINING WALL GENERAL ARRANGEMENT PLAN SHEET 1

Civil Engineers and Project Managers



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Tel: 02 9439 1777  
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www.atl.net.au  
info@atl.net.au

Status

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.

20-748-C1080

Issue

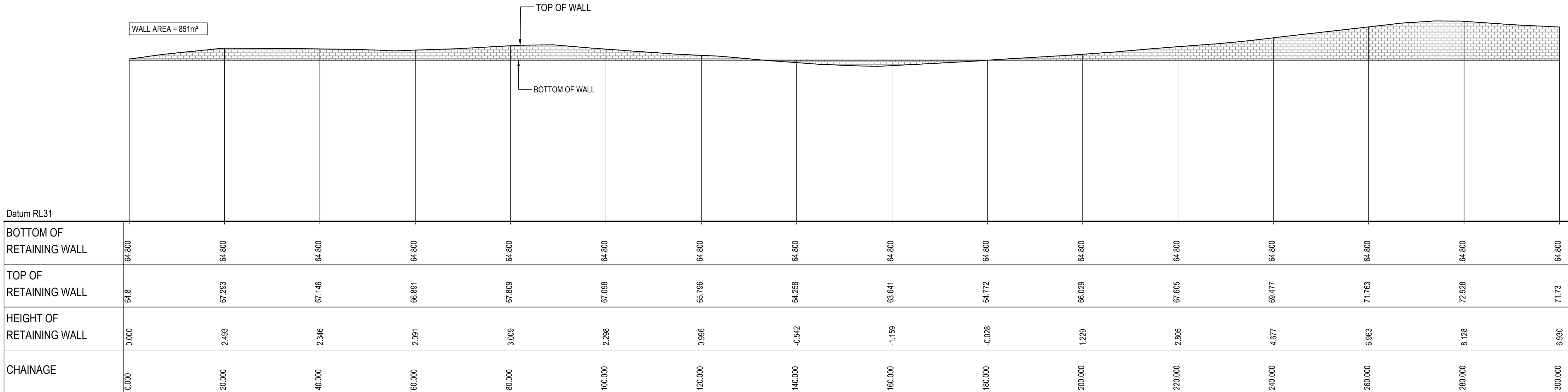
A1

G



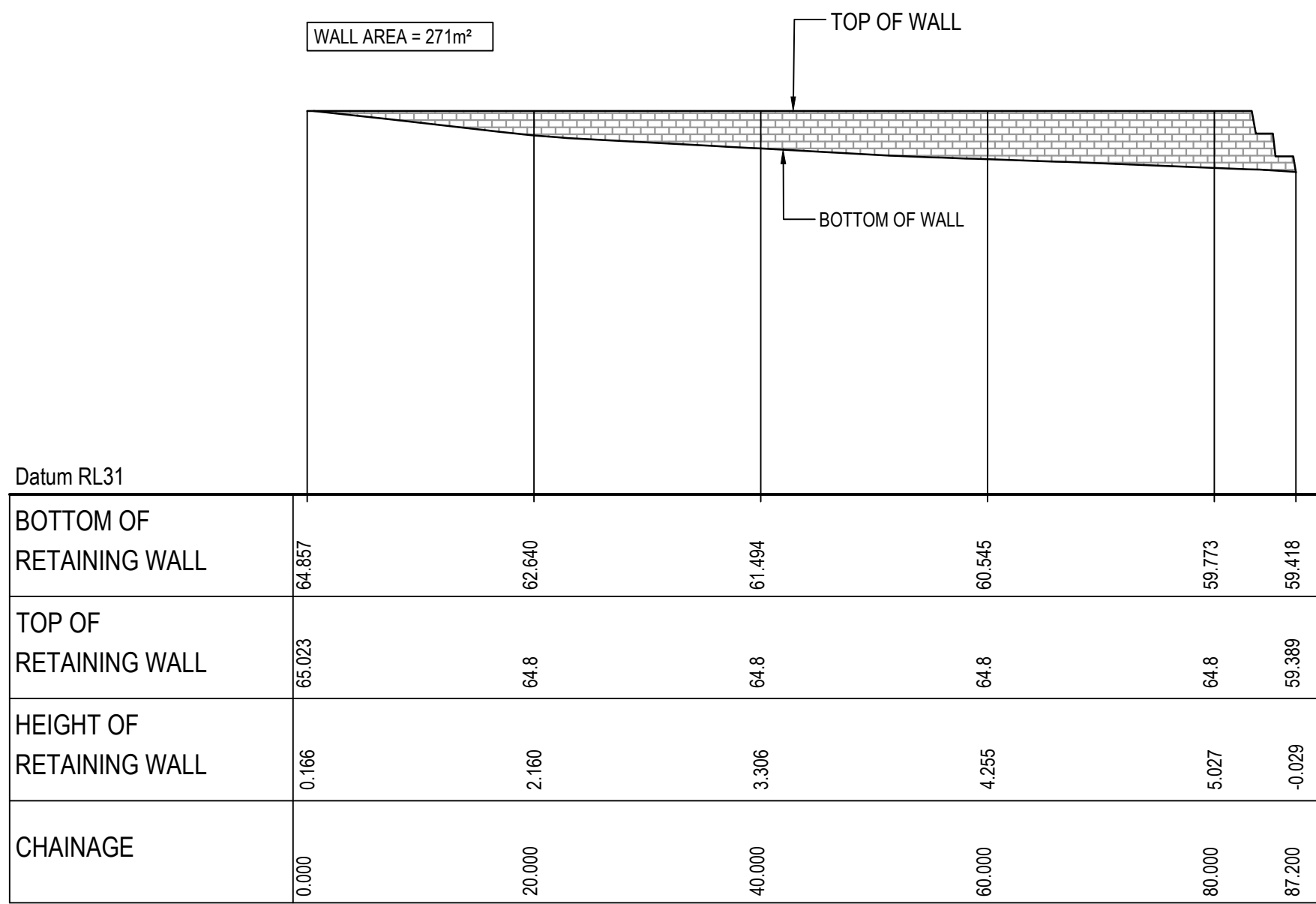
NOTES:  
ALL FINISHED LEVELS ARE ±2000mm U.N.O.  
REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS

NOTE:  
RETAINING WALL PROFILE IS INDICATIVE ONLY,  
REFER TO LANDSCAPE DRAWINGS FOR ENTRY  
FEATURE WALL CONCEPT.



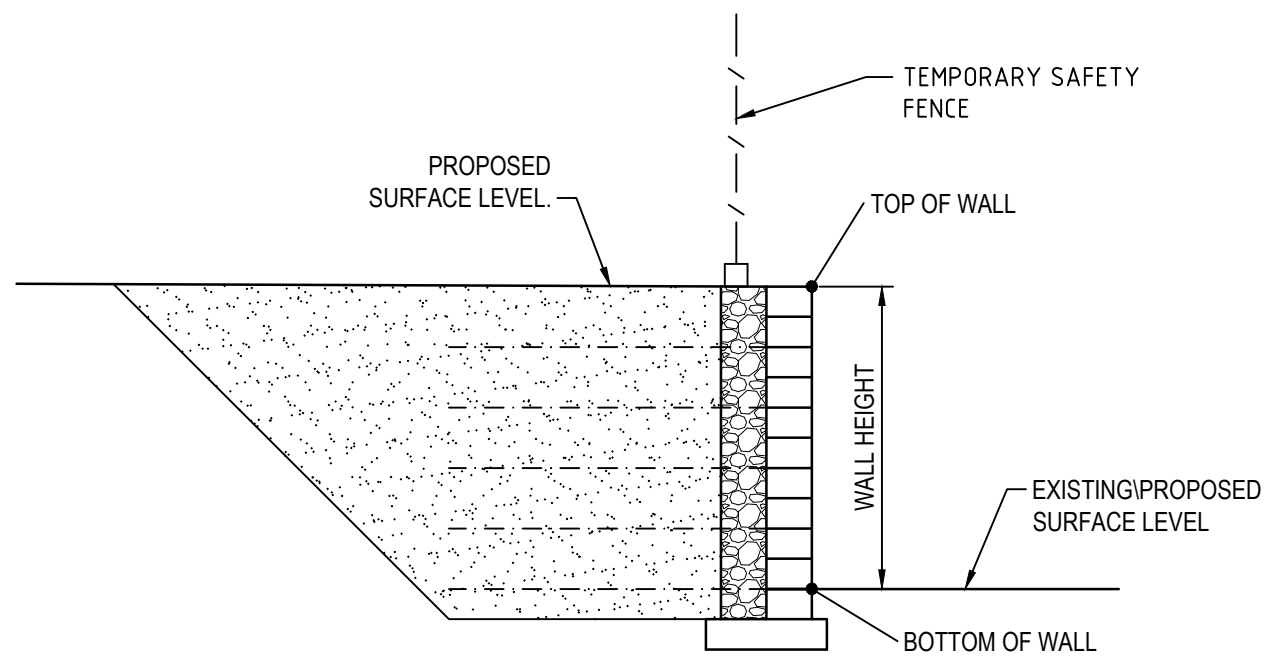
RETAINING WALL (RW-LOT 1-03) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.



RETAINING WALL (RW-LOT 1-02) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.



SECTION 1  
1 : 50

			Bar Scales		Client	Scales	Drawn	LM	Project	Civil Engineers and Project Managers
						AS SHOWN	Designed	LM	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	0 10 20 30 40 50m			Grid MGA2020	Checked	AT		
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	1 : 500 @ A1 1 : 1000 @ A3			Height Datum AHD	Approved			
E	RTS SUBMISSION	08-04-22	0 1 2 3 4 5m							
D	RTS ISSUE	11-11-21	1 : 50 @ A1 1 : 100 @ A3							
C	RTS ISSUE	12-10-21								
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21								
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20								
Issue	Description	Date								

100mm on Original

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GDA2020

20-748-C1085

SHEET 1

FOR APPROVAL

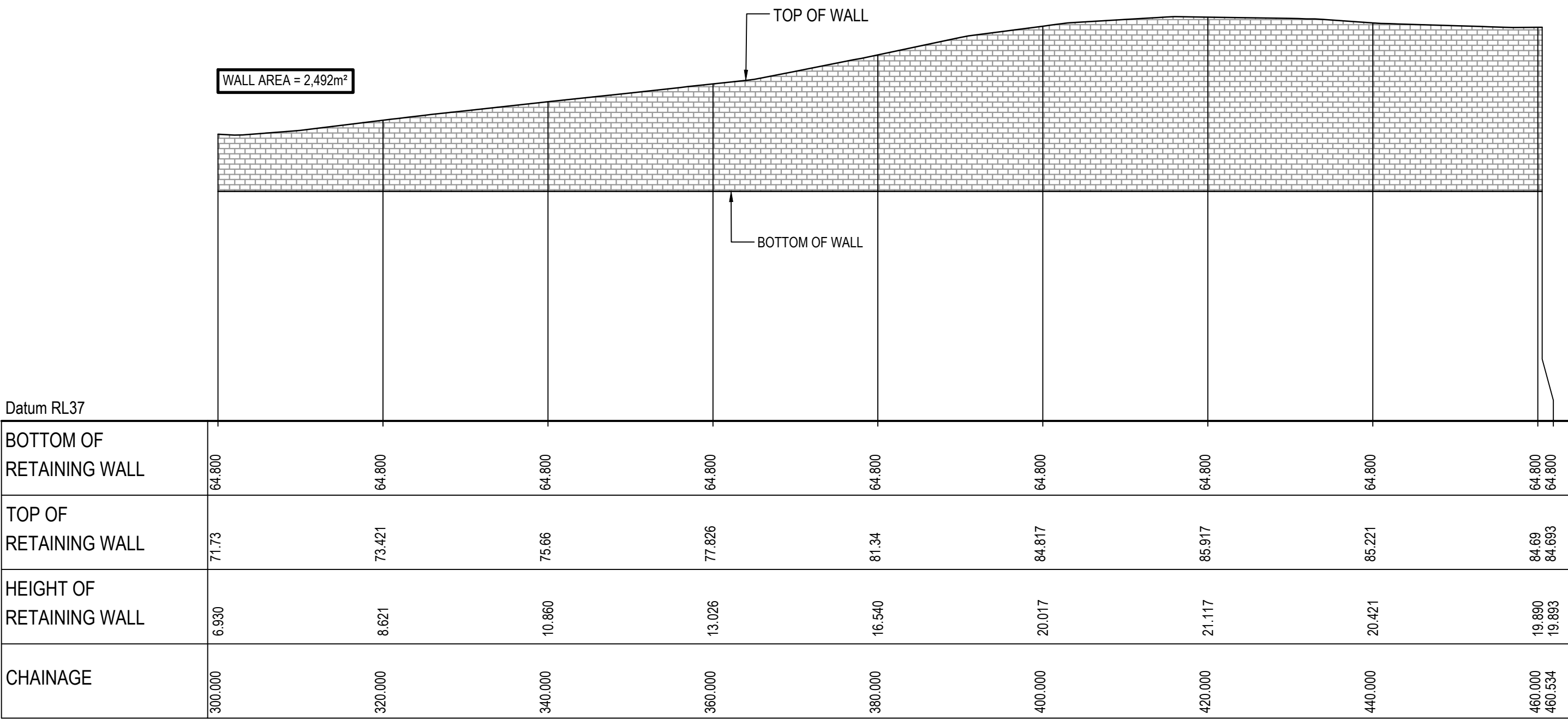
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.





Issue



NOTES:  
ALL FINISHED LEVELS ARE ±2000mm U.N.O  
REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS



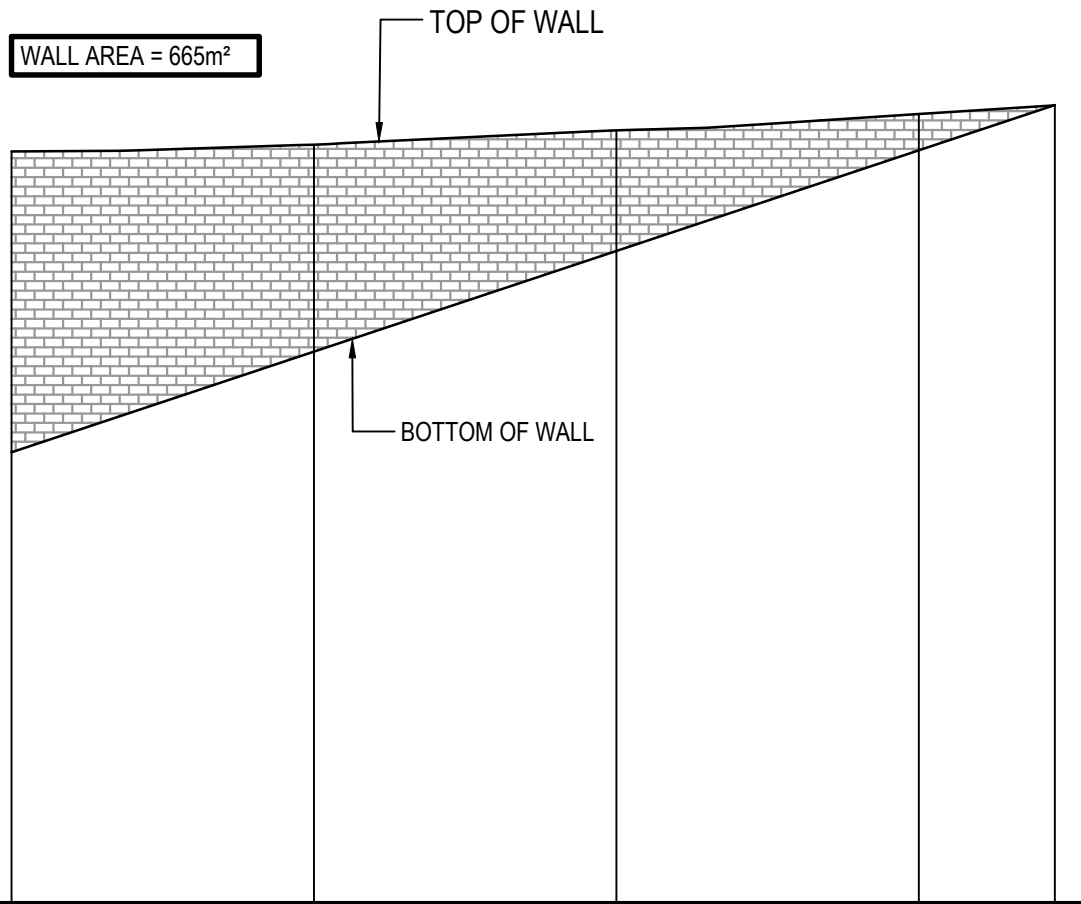
RETAINING WALL (RW-LOT 1-03) PROFILE  
SCALE 1:500 HORI.  
1:500 VERT.

			Bar Scales		<div></div>	Client	<div> <div>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</div></div>	Scales 1 : 500	Drawn	LM	Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers <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>		
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	Designed	LM										
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	Checked	AT				Title RETAINING WALL PROFILES SHEET 2	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1				
E	RTS SUBMISSION	08-04-22	Approved								Project - Drawing No. 20-748-C1086	Issue G		
D	RTS ISSUE	11-11-21	<div><div>0 10 20 30 40 50m</div><div>1 : 500 @ A1 1 : 1000 @ A3</div></div>											
C	RTS ISSUE	12-10-21												
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21												
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20												
Issue	Description	Date												

100mm on Original

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000\_INFRASTRUCTURE\20-748-C1086.dwg





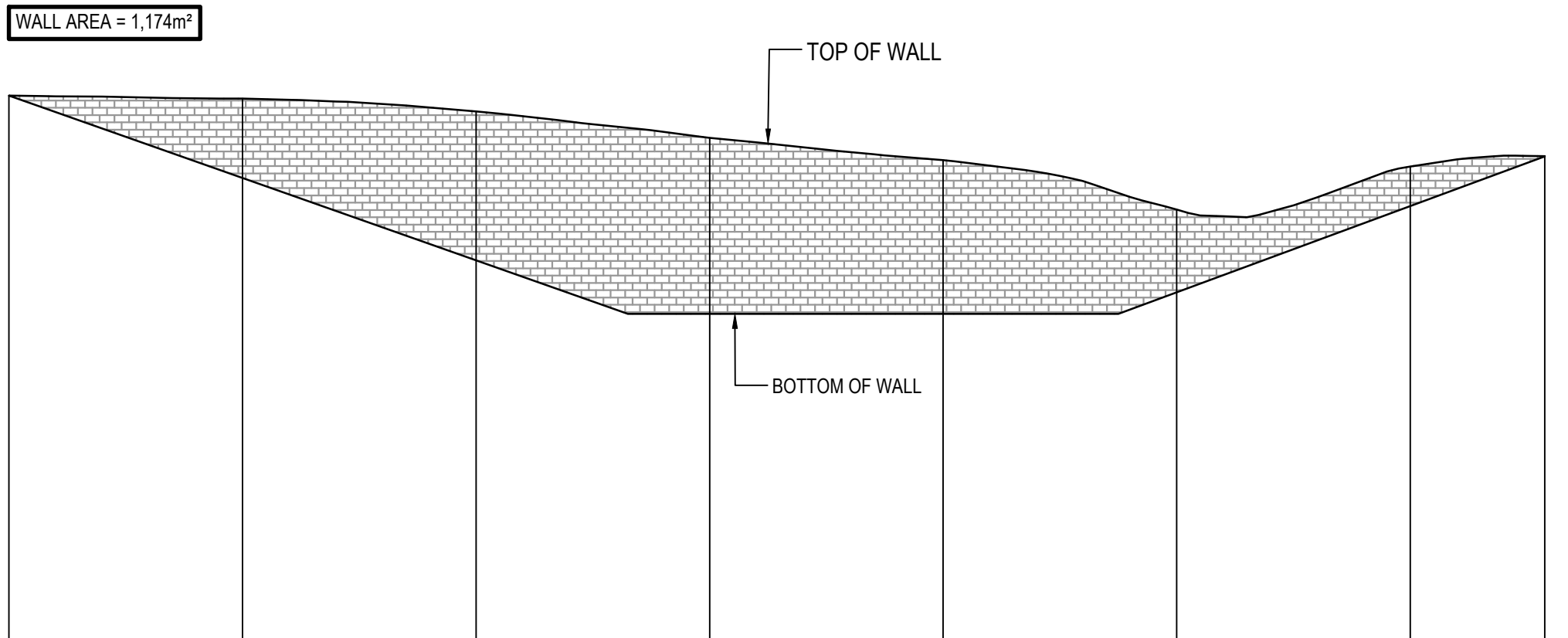
NOTES:  
ALL FINISHED LEVELS ARE ±2000mm U.N.O  
REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS

Datum RL35

BOTTOM OF RETAINING WALL	64.800	71.454	78.108	84.762	87.756
TOP OF RETAINING WALL	84.693	85.151	86.09	87.165	87.74
HEIGHT OF RETAINING WALL	19.893	13.697	7.982	2.403	-0.017
CHAINAGE	0.000	20.000	40.000	60.000	69.000

RETAINING WALL (RW-LOT 3-02) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.



Datum RL41

BOTTOM OF RETAINING WALL	87.985	80.934	73.883	69.300	69.300	71.145	78.527	82.776
TOP OF RETAINING WALL	87.985	87.725	86.628	84.371	82.462	78.23	81.898	82.795
HEIGHT OF RETAINING WALL	0.000	6.791	12.745	15.071	13.162	7.085	3.371	0.020
CHAINAGE	0.000	20.000	40.000	60.000	80.000	100.000	120.000	131.511

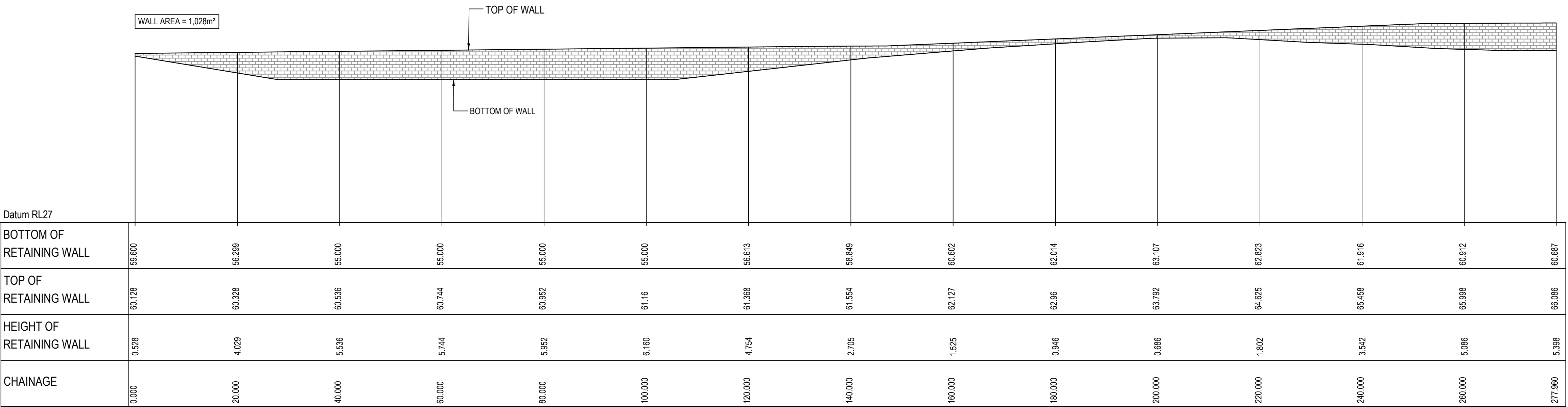
RETAINING WALL (RW-LOT 3-01) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.

			Bar Scales		Client	<div>ESR</div>	<div>1 : 500</div> <div>MGA2020</div> <div>AHD</div>	<div>DrawnLM</div> <div>DesignedLM</div> <div>CheckedAT</div> <div>Approved</div>	<div>Project</div> <div>PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK</div> <div>Title</div> <div>RETAINING WALL PROFILES SHEET 3</div>	<div>Civil Engineers and Project Managers</div> <div>at&amp;i</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>Status</div> <div>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</div> <div>Project - Drawing No.</div> <div>20-748-C1087</div> <div>Issue</div> <div>A1 G</div>
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	<div>01020304050m</div> <div>1 : 500 @ A1 1 : 1000 @ A3</div>							
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22								
E	RTS SUBMISSION	08-04-22								
D	RTS ISSUE	11-11-21								
C	RTS ISSUE	12-10-21								
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21								
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20								
Issue	Description	Date					<div>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</div>			



NOTES:  
ALL FINISHED LEVELS ARE ±2000mm U.N.O  
REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS



RETAINING WALL (RW-LOT 4-01) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.

			Bar Scales		Client	Scales	Drawn	LM	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22				1 : 500	Designed	LM			
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22				Grid	MGA2020	Checked	AT		
E	RTS SUBMISSION	08-04-22				Height Datum	AHD	Approved			
D	RTS ISSUE	11-11-21				GDA2020			Title	RETAINING WALL PROFILES SHEET 4	
C	RTS ISSUE	12-10-21				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	19-04-21									
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20									
Issue	Description	Date									

01020304050m

1 : 500 @ A1 1 : 1000 @ A3

100mm on Original

ESR

Scale

1 : 500

Grid

MGA2020

Height Datum

AHD

LM

AT

Project

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

Title

RETAINING WALL PROFILES SHEET 4

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.

20-748-C1088

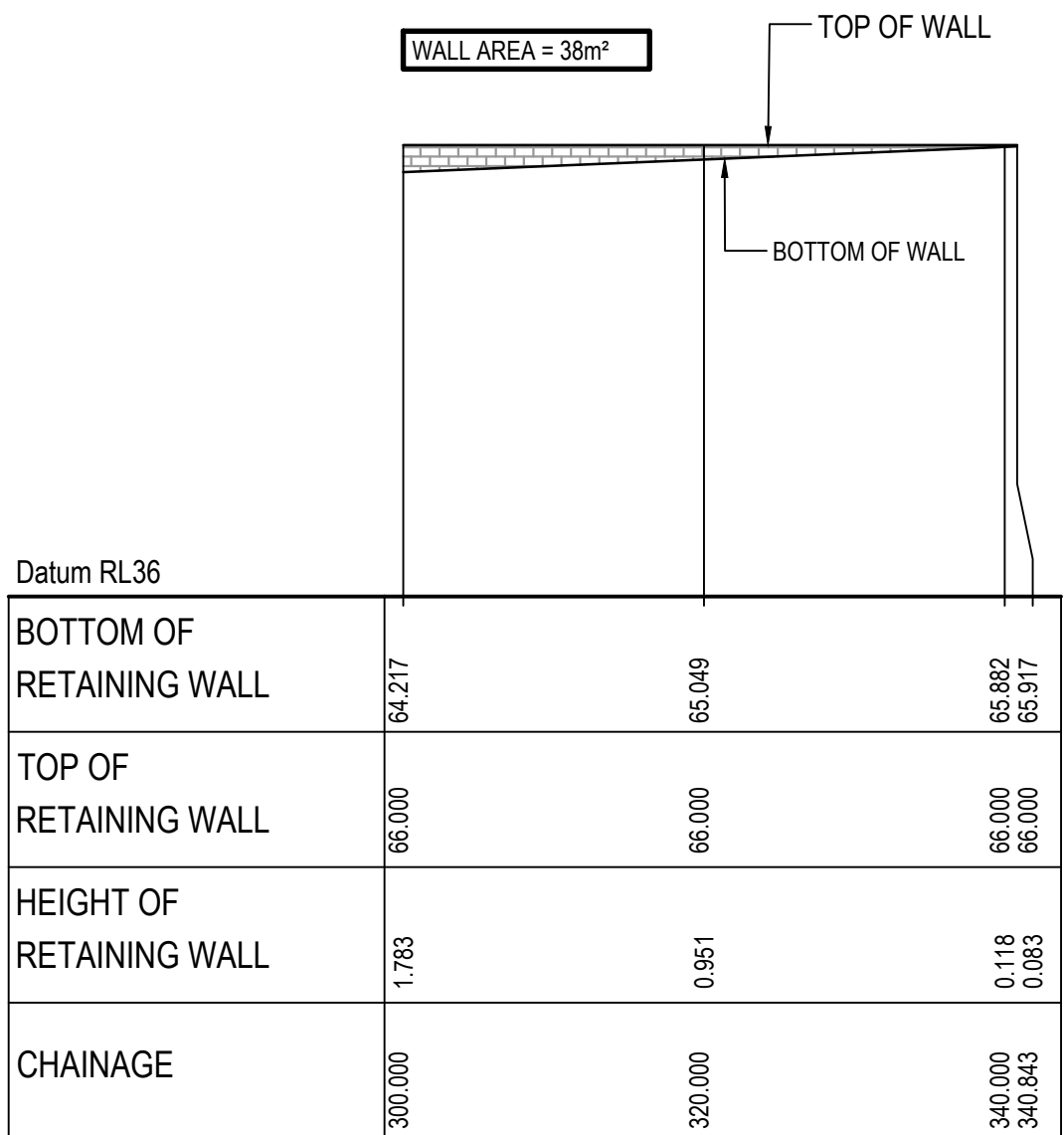
Issue

A1

G

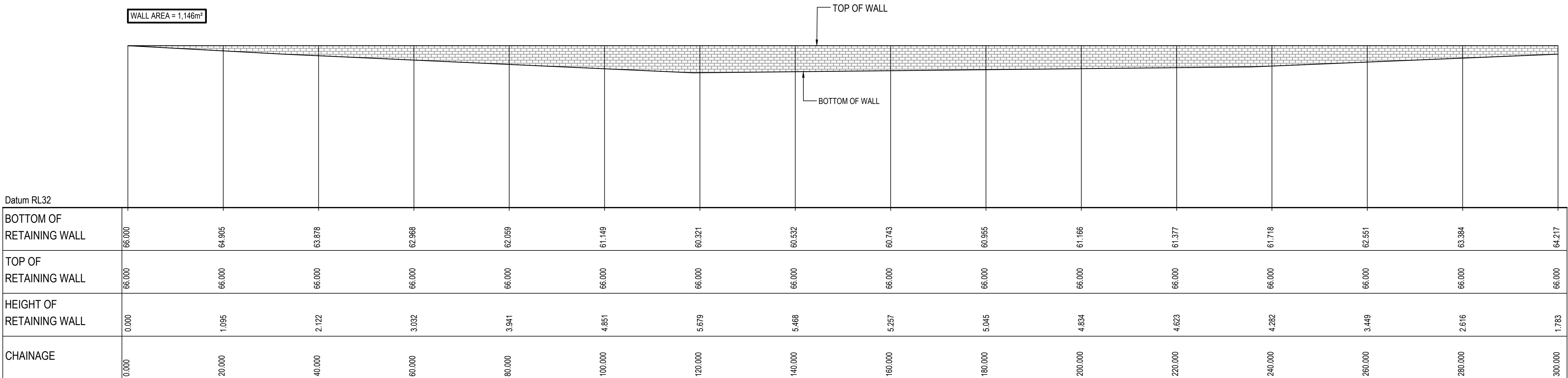


NOTES:  
ALL FINISHED LEVELS ARE ±2000mm U.N.O  
REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS



RETAINING WALL (RW-LOT 4-02) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.



RETAINING WALL (RW-LOT 4-02) PROFILE

SCALE 1:500 HORI.  
1:500 VERT.

			Bar Scales		Client	Scales	Drawn	LM	Project	Civil Engineers and Project Managers
						1 : 500	Designed	LM	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22				Grid	MGA2020	Checked	AT	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22				Height Datum	AHD	Approved		
E	RTS SUBMISSION	08-04-22								
D	RTS ISSUE	11-11-21								
C	RTS ISSUE	12-10-21								
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21								
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20								
Issue	Description	Date								

01020304050m

1 : 500 @ A1 1 : 1000 @ A3

100mm on Original

ESR

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

GDA2020

20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000\_INFRASTRUCTURE\20-748-C1089.dwg

FOR APPROVAL

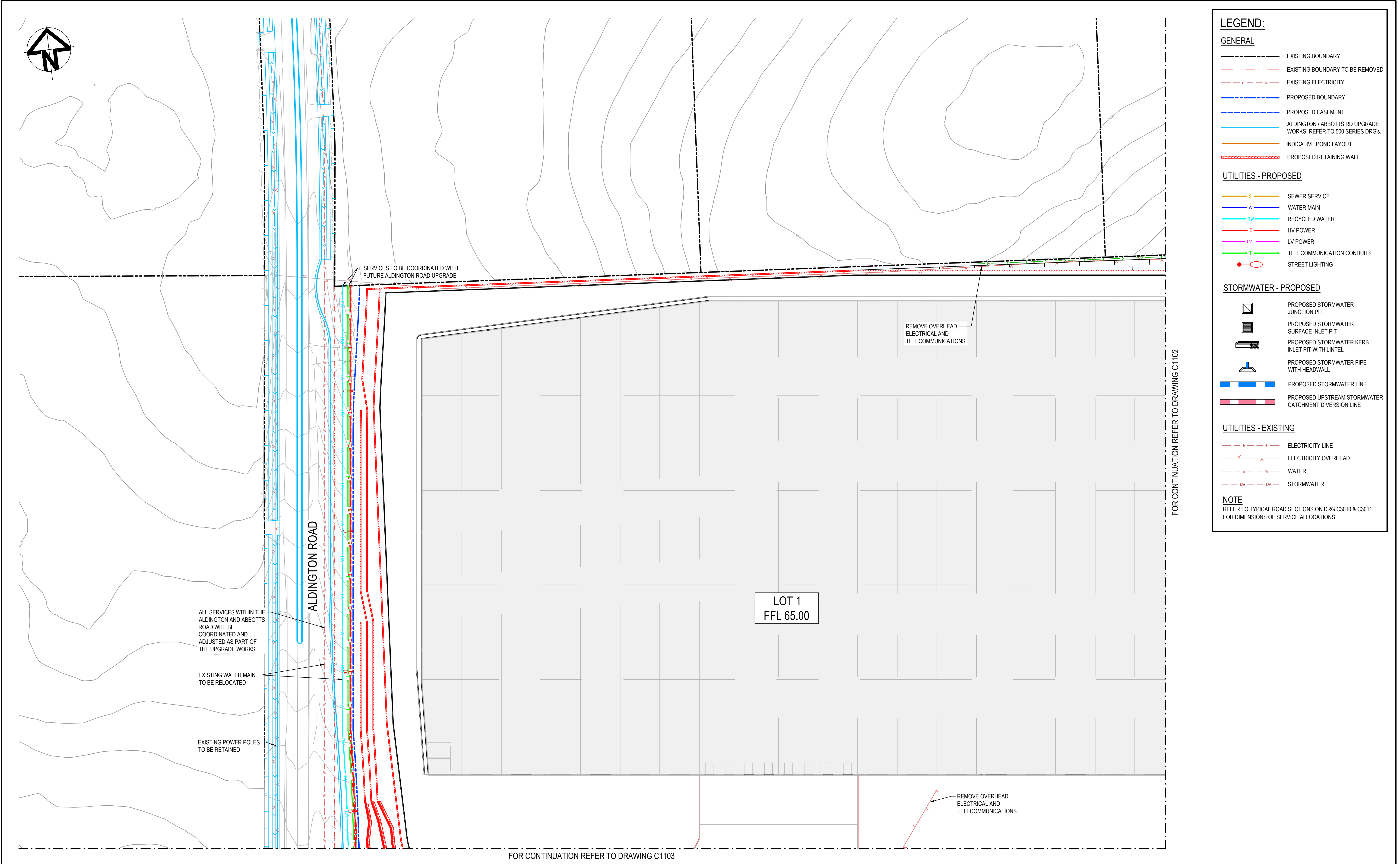
NOT TO BE USED FOR CONSTRUCTION

20-748-C1089

A1

G





**LEGEND:**

**GENERAL**

EXISTING BOUNDARY

EXISTING BOUNDARY TO BE REMOVED

EXISTING ELECTRICITY

PROPOSED BOUNDARY

PROPOSED EASEMENT

ALDINGTON / ABBOTTS RD UPGRADE WORKS. REFER TO 500 SERIES DRG's.

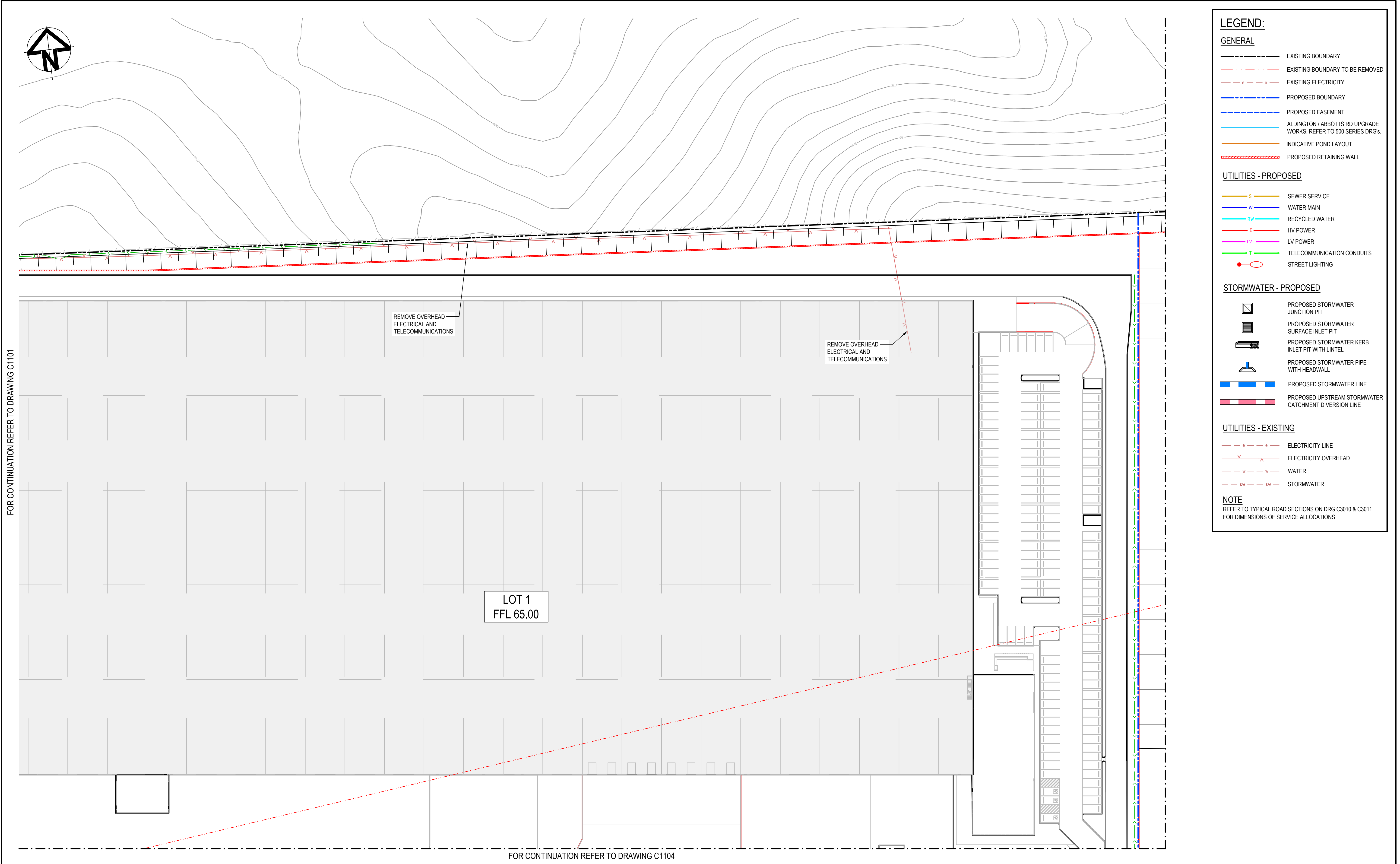
INDICATIVE POND LAYOUT

PROPOSED RETAINING WALL

**UTILITIES - PROPOSED**SEWER SERVICEWATER MAINRECYCLED WATERHV POWERLV POWERTELECOMMUNICATION CONDUITSSTREET LIGHTING**STORMWATER - PROPOSED**PROPOSED STORMWATER JUNCTION PITPROPOSED STORMWATER SURFACE INLET PITPROPOSED STORMWATER KERB INLET PIT WITH LINTELPROPOSED STORMWATER PIPE WITH HEADWALLPROPOSED STORMWATER LINEPROPOSED UPSTREAM STORMWATER CATCHMENT DIVERSION LINE**UTILITIES - EXISTING**ELECTRICITY LINEELECTRICITY OVERHEADWATERSTORMWATER**NOTE**  
REFER TO TYPICAL ROAD SECTIONS ON DRG C3010 & C3011 FOR DIMENSIONS OF SERVICE ALLOCATIONS

			<div>Bar Scales</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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**LEGEND:**

**GENERAL**

EXISTING BOUNDARY

EXISTING BOUNDARY TO BE REMOVED

EXISTING ELECTRICITY

PROPOSED BOUNDARY

PROPOSED EASEMENT

ALDINGTON / ABBOTTS RD UPGRADE WORKS. REFER TO 500 SERIES DRG's.

INDICATIVE POND LAYOUT

PROPOSED RETAINING WALL

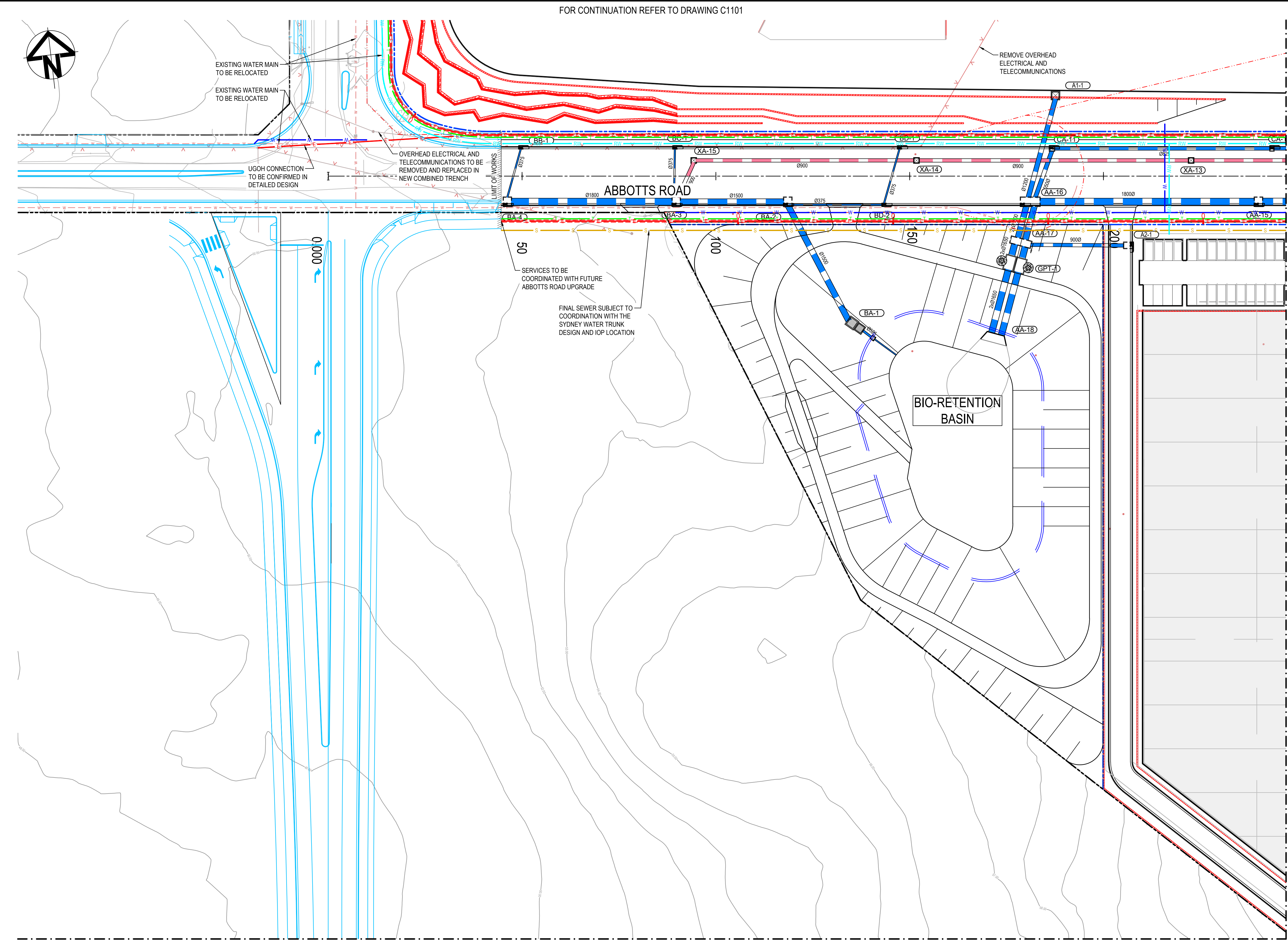
**UTILITIES - PROPOSED**SEWER SERVICEWATER MAINRECYCLED WATERHV POWERLV POWERTELECOMMUNICATION CONDUITSSTREET LIGHTING**STORMWATER - PROPOSED**PROPOSED STORMWATER JUNCTION PITPROPOSED STORMWATER SURFACE INLET PITPROPOSED STORMWATER KERB INLET PIT WITH LINTELPROPOSED STORMWATER PIPE WITH HEADWALLPROPOSED STORMWATER LINEPROPOSED UPSTREAM STORMWATER CATCHMENT DIVERSION LINE**UTILITIES - EXISTING**ELECTRICITY LINEELECTRICITY OVERHEADWATERSTORMWATER**NOTE**  
REFER TO TYPICAL ROAD SECTIONS ON DRG C3010 & C3011 FOR DIMENSIONS OF SERVICE ALLOCATIONS

FOR CONTINUATION REFER TO DRAWING C1101

FOR CONTINUATION REFER TO DRAWING C1104

			<div>Bar Scales</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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LEGEND:

GENERAL

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- ALDINGTON / ABBOTT'S RD UPGRADE WORKS. REFER TO 500 SERIES DRG's.
- INDICATIVE POND LAYOUT
- PROPOSED RETAINING WALL

UTILITIES - PROPOSED

- SEWER SERVICE
- WATER MAIN
- RECYCLED WATER
- HV POWER
- LV POWER
- TELECOMMUNICATION CONDUITS
- STREET LIGHTING

STORMWATER - PROPOSED

- PROPOSED STORMWATER JUNCTION PIT
- PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
- PROPOSED STORMWATER PIPE WITH HEADWALL
- PROPOSED STORMWATER LINE
- PROPOSED UPSTREAM STORMWATER CATCHMENT DIVERSION LINE

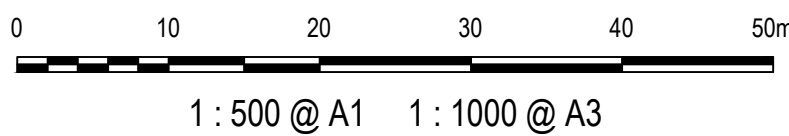
UTILITIES - EXISTING

- ELECTRICITY LINE
- ELECTRICITY OVERHEAD
- WATER
- STORMWATER

NOTE  
REFER TO TYPICAL ROAD SECTIONS ON DRG C3010 & C3011  
FOR DIMENSIONS OF SERVICE ALLOCATIONS

Issue	Description	Date
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20

Bar Scales



Client



Scales

1 : 500

Drawn

LM

Designed

LM

Grid

MGA2020

Checked

AT

Height Datum

AHD

Approved

GDA2020  
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Project

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

Title

SERVICES AND UTILITIES COORDINATION 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  
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.

20-748-C1103

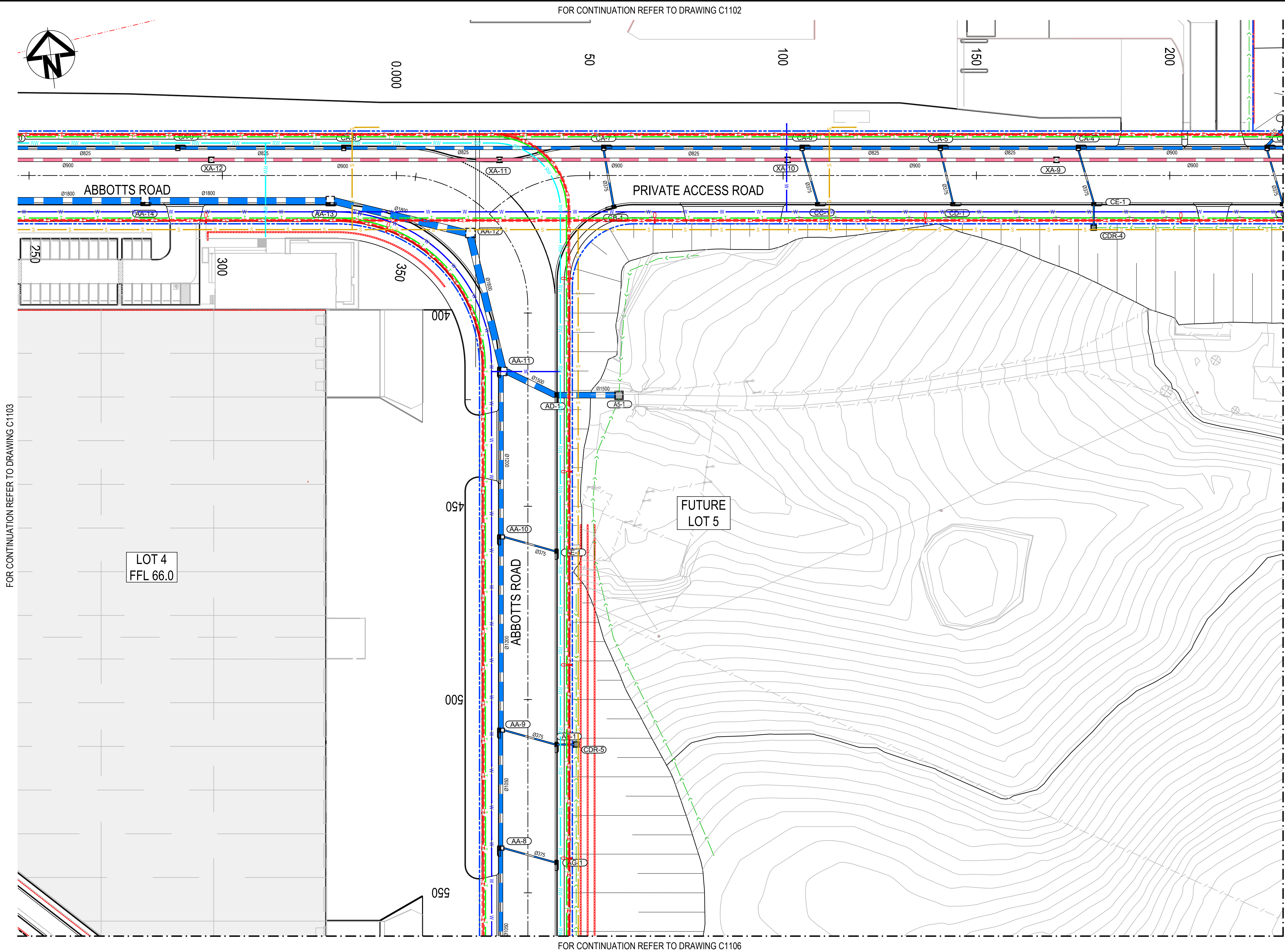
Issue

A1

Issue

G





**LEGEND:**

**GENERAL**

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING ELECTRICITY
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- ALDINGTON / ABBOTTS RD UPGRADE WORKS. REFER TO 500 SERIES DRG's.
- INDICATIVE POND LAYOUT
- PROPOSED RETAINING WALL

**UTILITIES - PROPOSED**

- S SEWER SERVICE
- W WATER MAIN
- RW RECYCLED WATER
- E HV POWER
- LV LV POWER
- T TELECOMMUNICATION CONDUITS
- STREET LIGHTING




**STORMWATER - PROPOSED**

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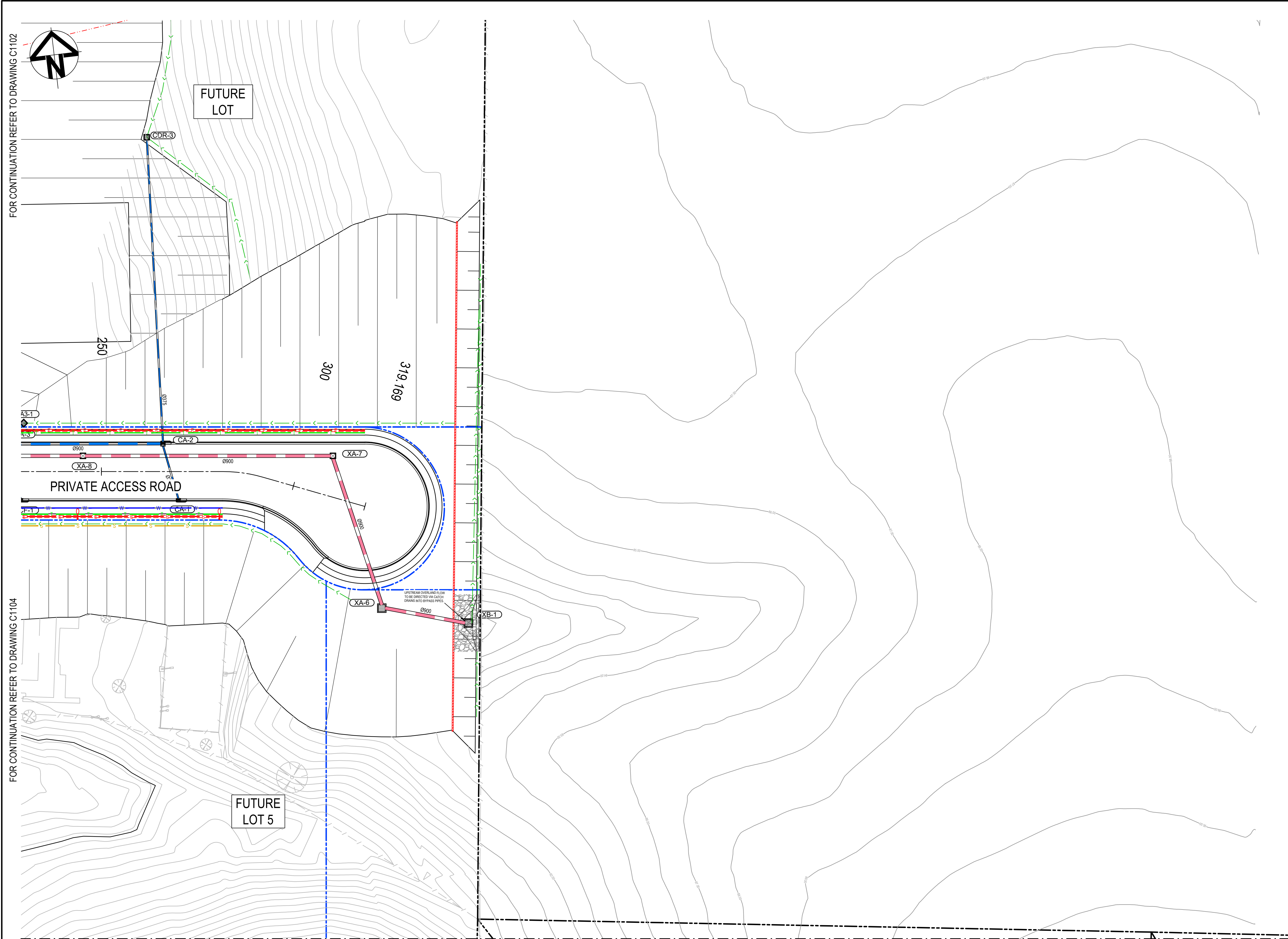
**UTILITIES - EXISTING**

- ELECTRICITY LINE
- ELECTRICITY OVERHEAD
- WATER
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**NOTE**  
REFER TO TYPICAL ROAD SECTIONS ON DRG C3010 & C3011 FOR DIMENSIONS OF SERVICE ALLOCATIONS

			<p>Bar Scales</p> 		Client		Scales	1 : 500	Drawn	LM	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	<p>Civil Engineers and Project Managers</p>  <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>					
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22																
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A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20																
Issue	Description	Date										Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1				
												Project - Drawing No.	20-748-C1104	Issue	G			
												Title		SERVICES AND UTILITIES COORDINATION PLAN SHEET 4				
												GDA2020		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&I				





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**STORMWATER - PROPOSED**

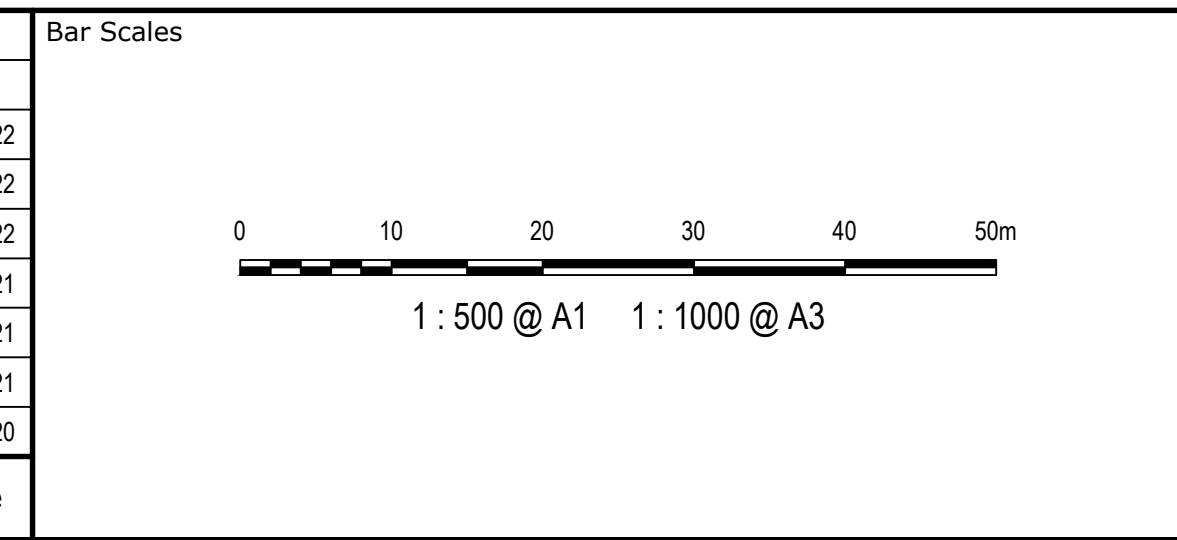
- PROPOSED STORMWATER JUNCTION PIT
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A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date



Client

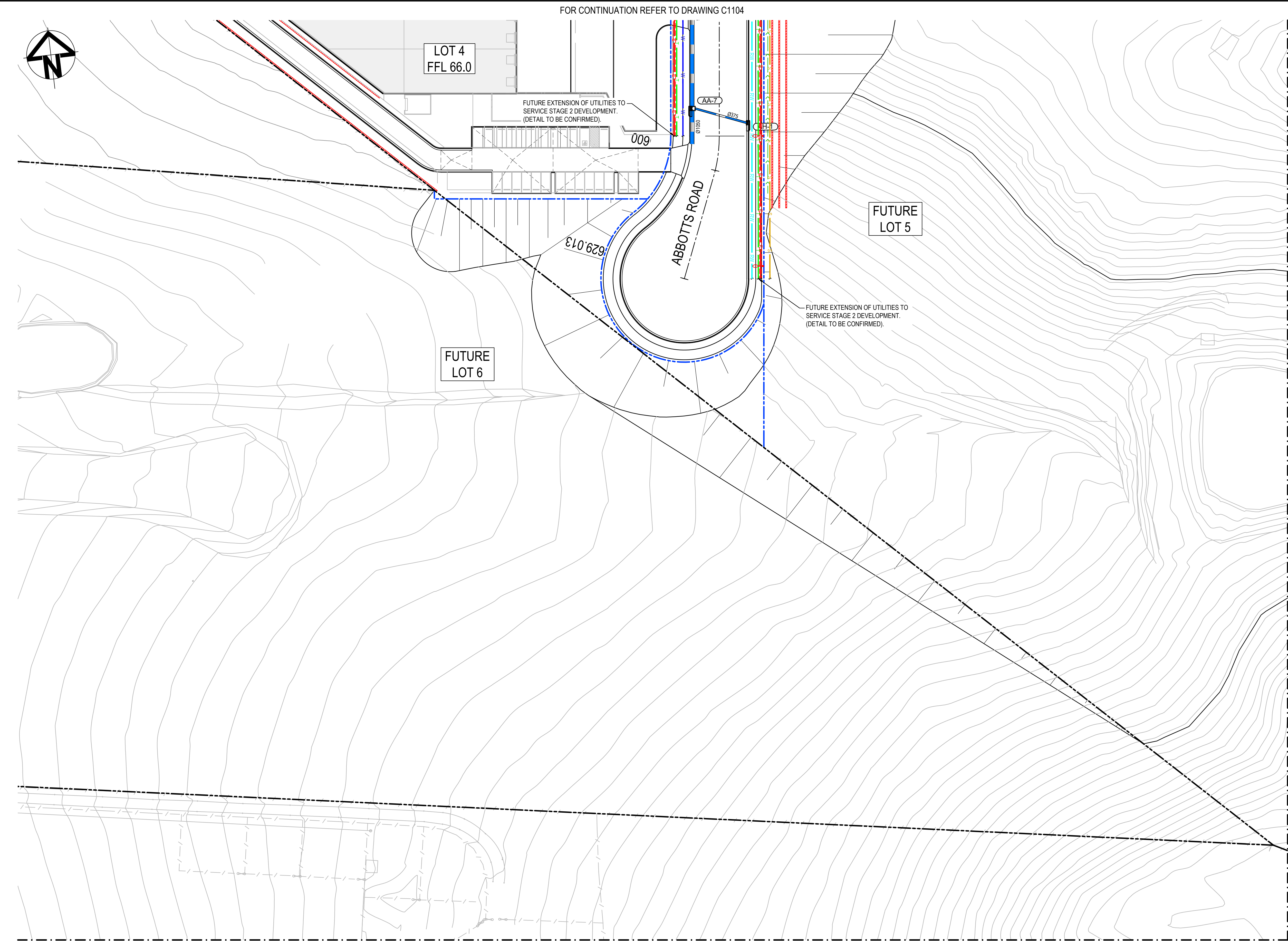


Scales	1 : 500	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			

Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	SERVICES AND UTILITIES COORDINATION PLAN SHEET 5

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.	20-748-C1105	Issue G





LEGEND:

GENERAL

- EXISTING BOUNDARY
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Issue	Description	Date

Bar Scales



1 : 500 @ A1 1 : 1000 @ A3

Client



Scales

1 : 500

Drawn

LM

Designed

LM

Grid

MGA2020

Checked

AT

Height Datum

AHD

Approved

**GDA2020**

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Project

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

Title

SERVICES AND UTILITIES COORDINATION PLAN SHEET 6

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.

20-748-C1106

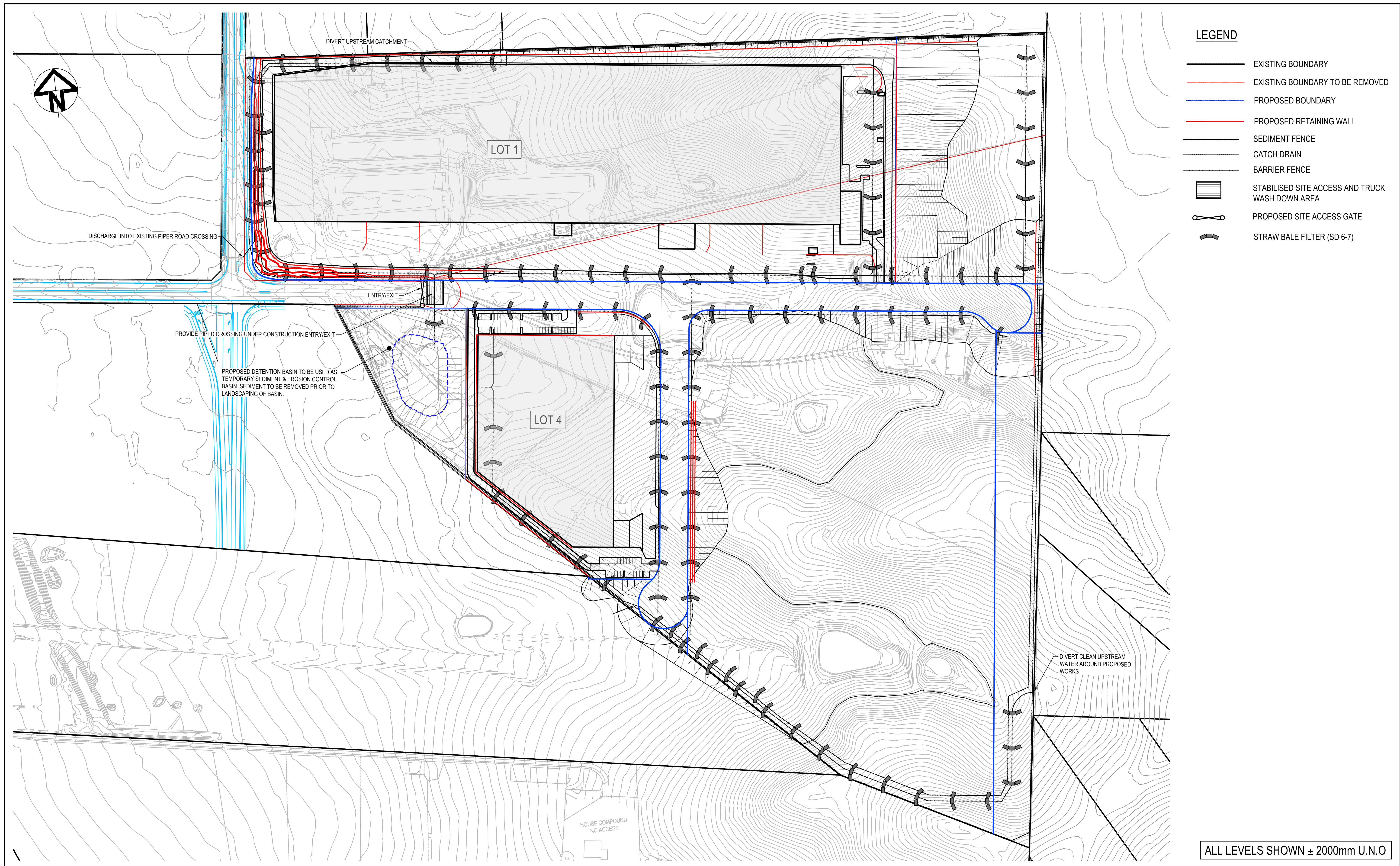
Issue

A1

Issue

G





			Bar Scales		<div></div>	<div></div>	Client	<div></div> <div>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;I</div>	Scales	Drawn	LM	Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers		
1 : 1500		Designed	LM						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	MGA2020	Checked	AT													
Height Datum	AHD	Approved		Title					Status	FOR APPROVAL	A1					
EROSION AND SEDIMENT CONTROL PLAN									NOT TO BE USED FOR CONSTRUCTION							
									Project - Drawing No.		Issue					
									20-748-C1201		G					
Issue	Description	Date														






100mm on Original

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Scales	AS SHOWN	Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	



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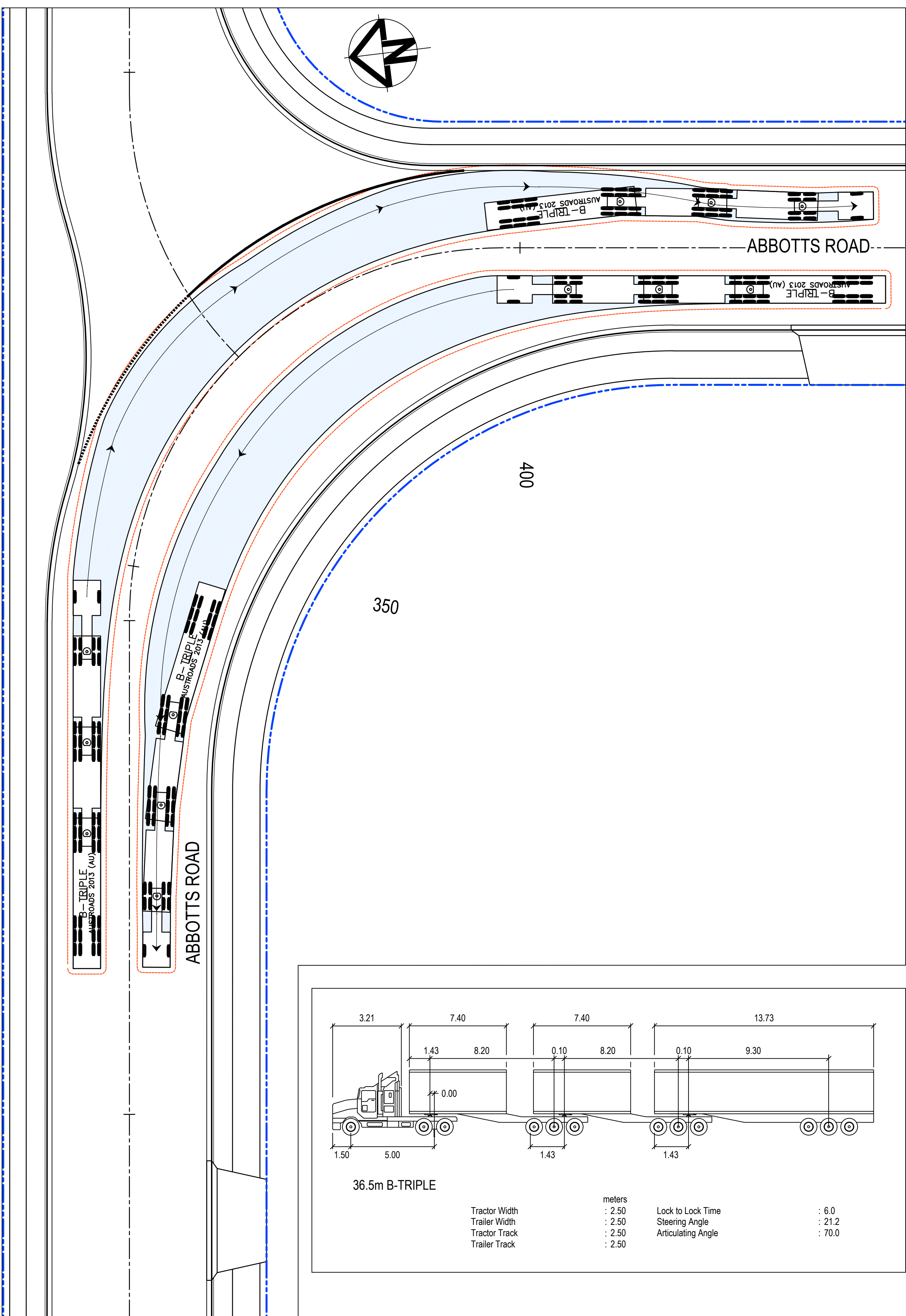
Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	EROSION AND SEDIMENT CONTROL DETAILS

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 <a href="http://www.atl.net.au">www.atl.net.au</a> <a href="mailto:info@atl.net.au">info@atl.net.au</a>
Status <b>FOR APPROVAL</b> <b><u>NOT TO BE USED FOR CONSTRUCTION</u></b>	<b>A1</b>
Project - Drawing No. <b>20-748-C1210</b>	Issue <b>G</b>

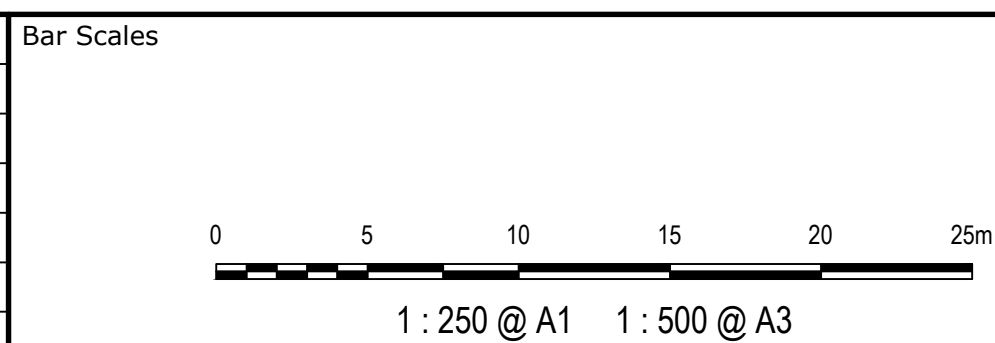









G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
E	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
B	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
A	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date




Scales  1 : 250	Drawn	LM
	Designed	LM
Grid MGA2020	Checked	AT
Height Datum AHD	Approved	


GDA2020

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Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	VEHICLE TURNPATH PLAN SHEET 1



**Civil Engineers and Project Managers**

Level 7, 153 Walker Street  
North Sydney NSW 2060

ABN 96 130 882 405

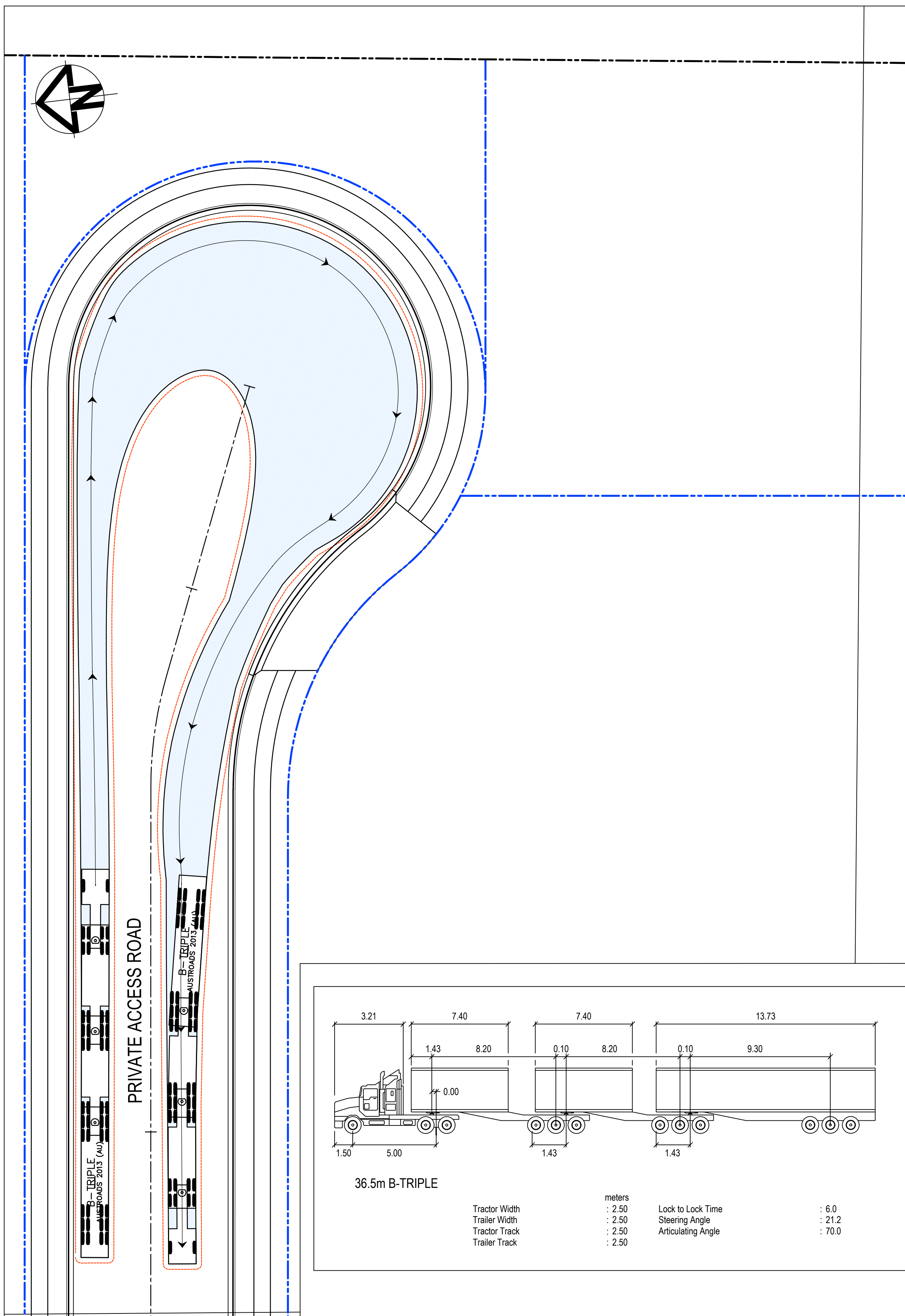
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Status	<b>FOR APPROVAL</b> <b>NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.		Issue
20-748-C1311		G






Bar Scales

A horizontal bar scale is shown with markings at 0, 5, 10, 15, 20, and 25m. Below the scale, the text "1 : 250 @ A1" and "1 : 500 @ A3" is displayed.

Scales  1 : 250		Drawn	LM
		Designed	LM
Grid	MGA2020	Checked	AT
Height Datum	AHD	Approved	
 <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>			

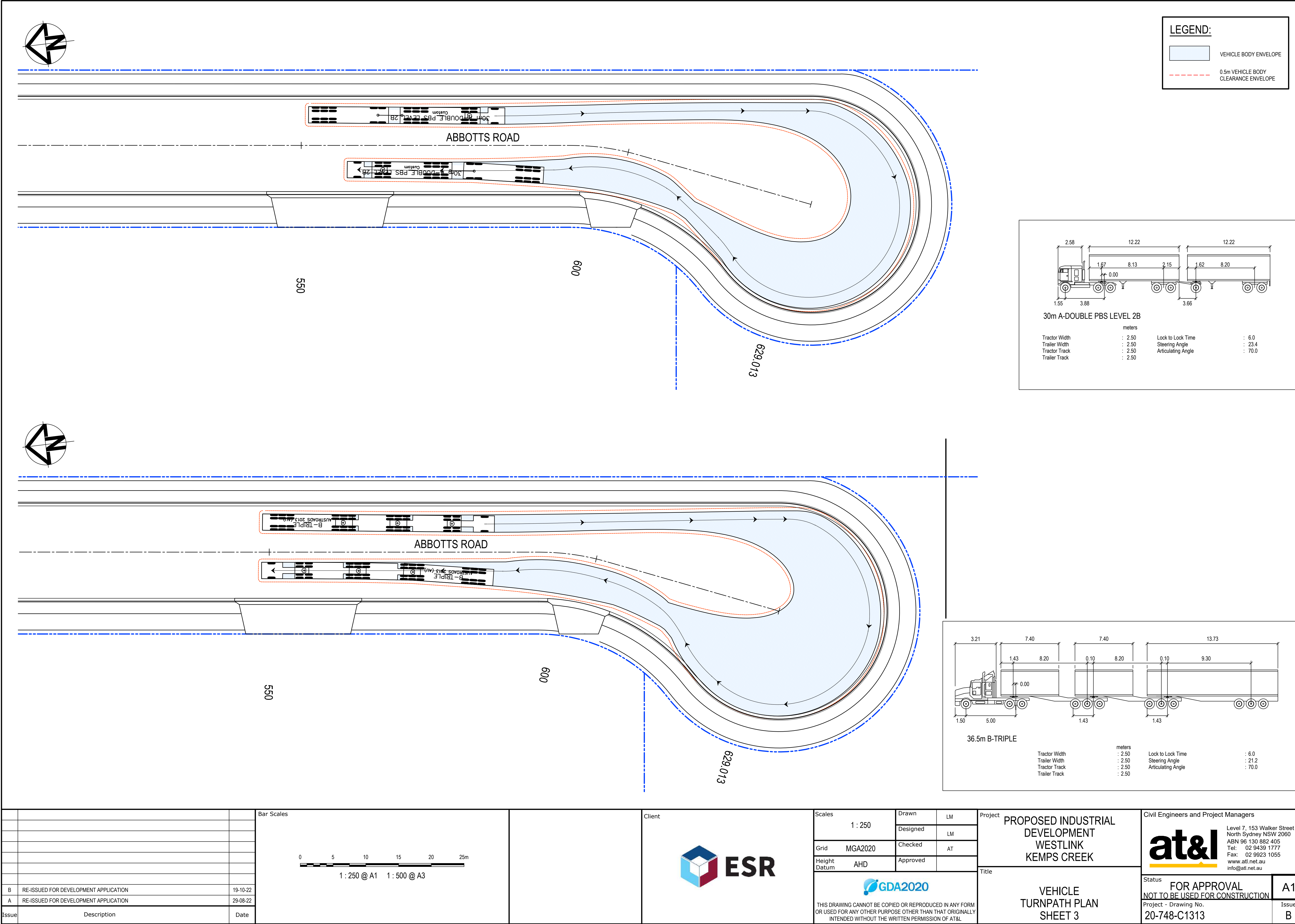
Civil Engineers and Project Managers



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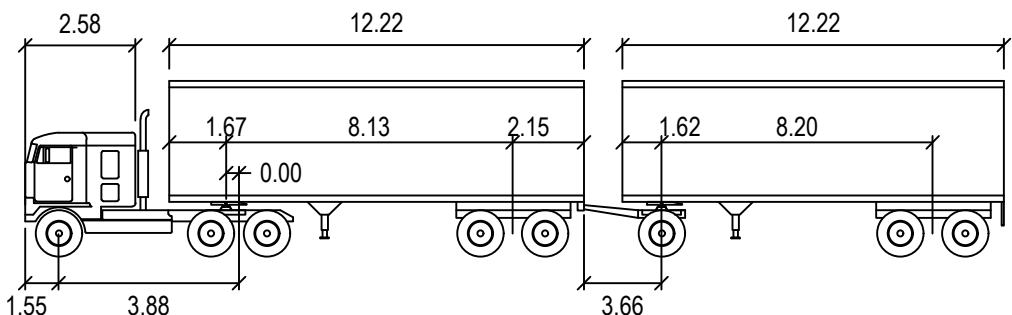
Status	<b>FOR APPROVAL</b> <b>NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	20-748-C1312	Issue <div style="font-size: 2em; margin-top: 10px;">G</div>





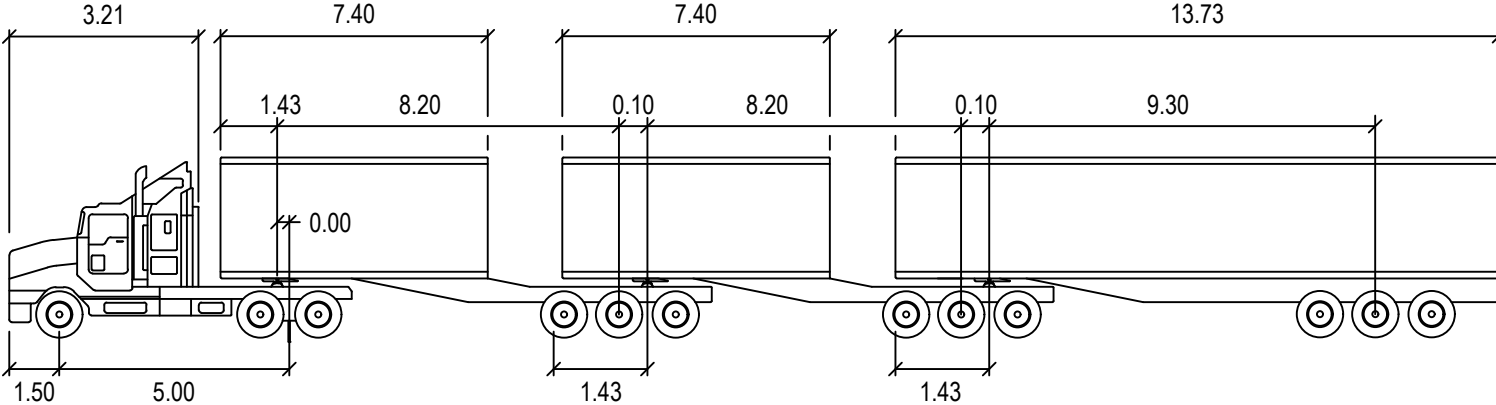
LEGEND:

- VEHICLE BODY ENVELOPE
- 0.5m VEHICLE BODY CLEARANCE ENVELOPE



30m A-DOUBLE PBS LEVEL 2B

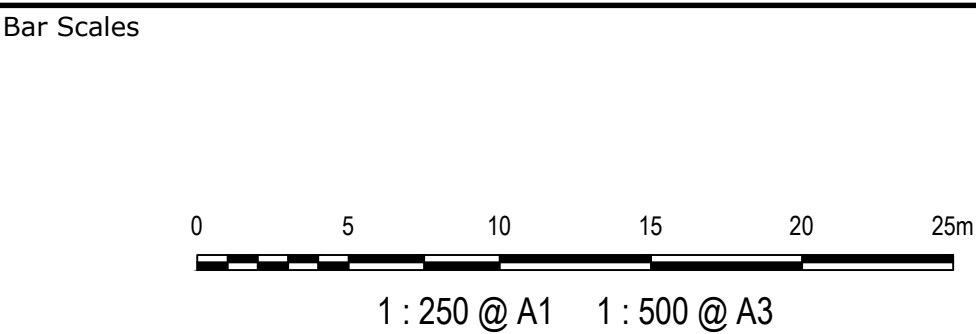
	metres		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		



36.5m B-TRIPLE

	metres		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 21.2
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		


Issue	Description	Date
B	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
A	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22



Scales	Drawn	LM
1 : 250	Designed	LM
Grid	MGA2020	Checked
Height Datum	AHD	Approved

Project	PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK
Title	VEHICLE TURNPATH PLAN SHEET 3

Civil Engineers and Project Managers



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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Project - Drawing No.		Issue
20-748-C1313		B



