

OAKDALE WEST

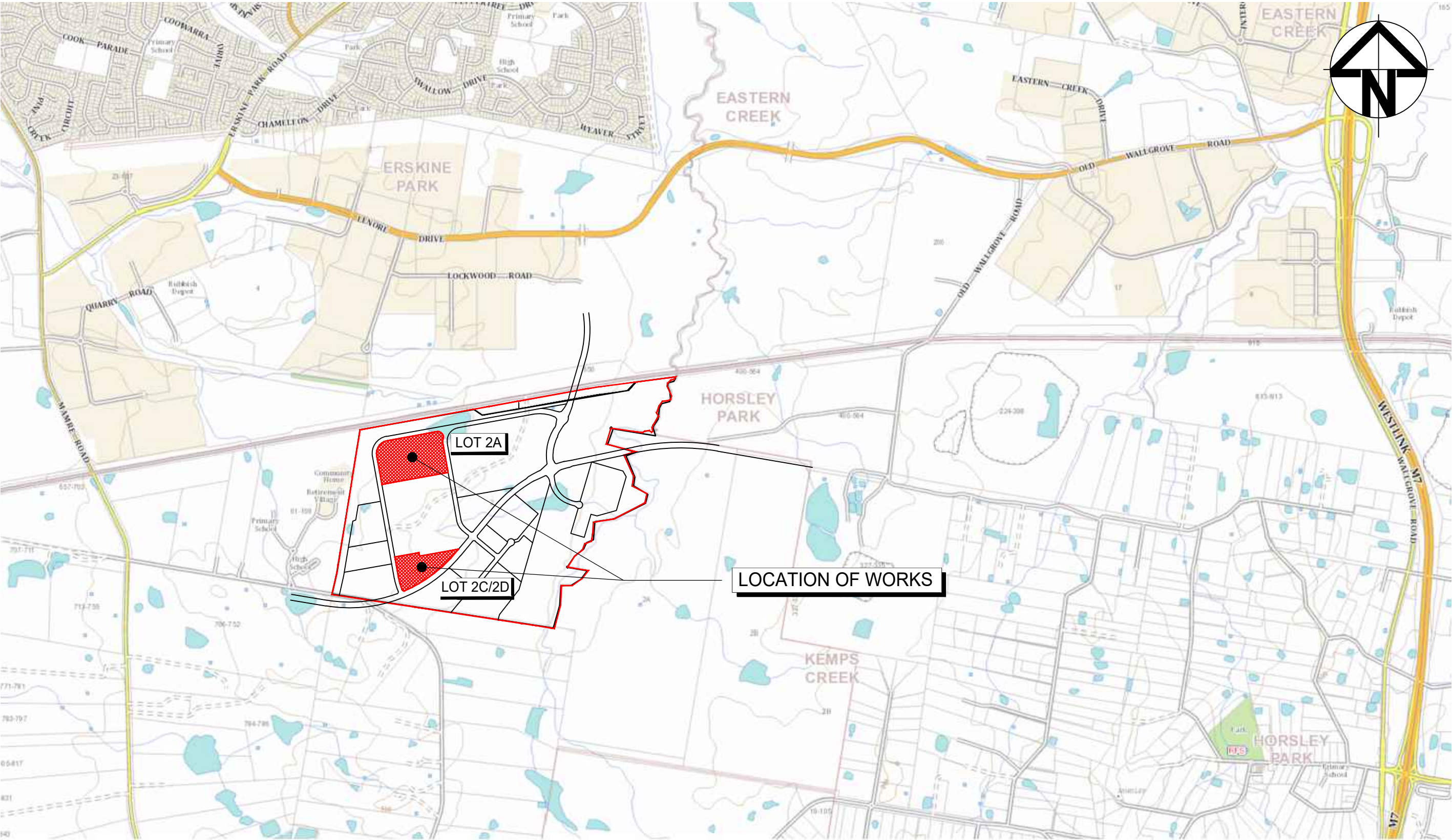
7200-SERIES LOT 2A, 2C/2D

CIVIL WORKS PACKAGE

STATE SIGNIFICANT DEVELOPMENT



APPLICATION

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15-272-C7223	EROSION AND SEDIMENT DETAILS



LOCALITY PLAN

NTS

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							Designed	GB					
C						ISSUED FOR APPROVAL	04-11-21						
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A						ISSUED FOR CLIENT REVIEW	14-10-21	Height Datum	AHD		Approved	AM	
P3						ISSUED FOR DRAFT	22-04-21						
P2						ISSUED FOR DRAFT	12-11-20						
P1			ISSUED FOR DRAFT	03-11-20									
Issue	Description			Date					Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1		
									Project - Drawing No.	15-272-C7200	Issue	C	



SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.
- FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1
- FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY CARDNO HARD & FORESTER PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

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

IMPORTANT NOTE:  
THIS PLAN IS PREPARED FOR A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED BY THE AUTHOR AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD MEASUREMENT.

A SERVICES SEARCH OF THE AREA SURVEYED ABOVE HAS NOT BEEN UNDERTAKEN. VISIBLE SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES. THIS NOTE IS AN INTEGRAL PART OF THIS PLAN.

DEWATERING

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

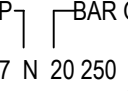

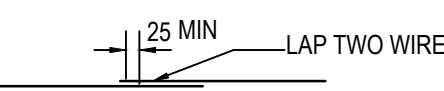
DECOMMISSIONING / DEMOLITION

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).

CONCRETE NOTES

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<br>At 28 DAYS | SPECIFIED<br>SLUMP | NOMINAL<br>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 CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:  
N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N  
R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302  
SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304
- NUMBER OF BARS IN GROUP:  BAR GRADE AND TYPE
- 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:
- 

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-  
EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.
- EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
- EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

BULK EARTHWORKS NOTES

1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. REFER PELLIS SULLIVAN MEYNINK REPORT PSM1541-020S REV 0 (DATED 16-03-12) FOR BULK EARTHWORKS SPECIFICATIONS OF THE BIO-RETENTION BASIN AND ESTATE ROAD.
3. REFER PELLIS SULLIVAN MEYNINK REPORT PSM1541-003S REV 2 (DATED 06/05/13) FOR BULK EARTHWORKS SPECIFICATIONS OF ALL AREAS EXCEPT THE BIO-RETENTION BASIN AND ESTATE ROAD.

FINISHED SURFACE LEVELS

1. ALL FINISHED SURFACE LEVELS ARE ±100mm U.N.O.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:  
(A) AVERAGE RECURRENCE INTERVAL:  
1:100 YEARS MAJOR STORM (OVERLAND FLOW)  
1:20 YEARS MINOR STORM (PIPED NETWORK)  
(B) RAINFALL INTENSITIES:  
TIME OF CONCENTRATION 5 MINUTES  
1:100 YEARS= 219 mm/hr  
1:20 YEARS= 167 mm/hr  
(C) RUNOFF COEFFICIENTS:  
ROOF AREAS: C 100 =1.0  
EXTERNAL PAVEMENTS: C 100 =1.0
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. 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 DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND 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 PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. 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.



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

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH  
a. LOCAL AUTHORITY 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

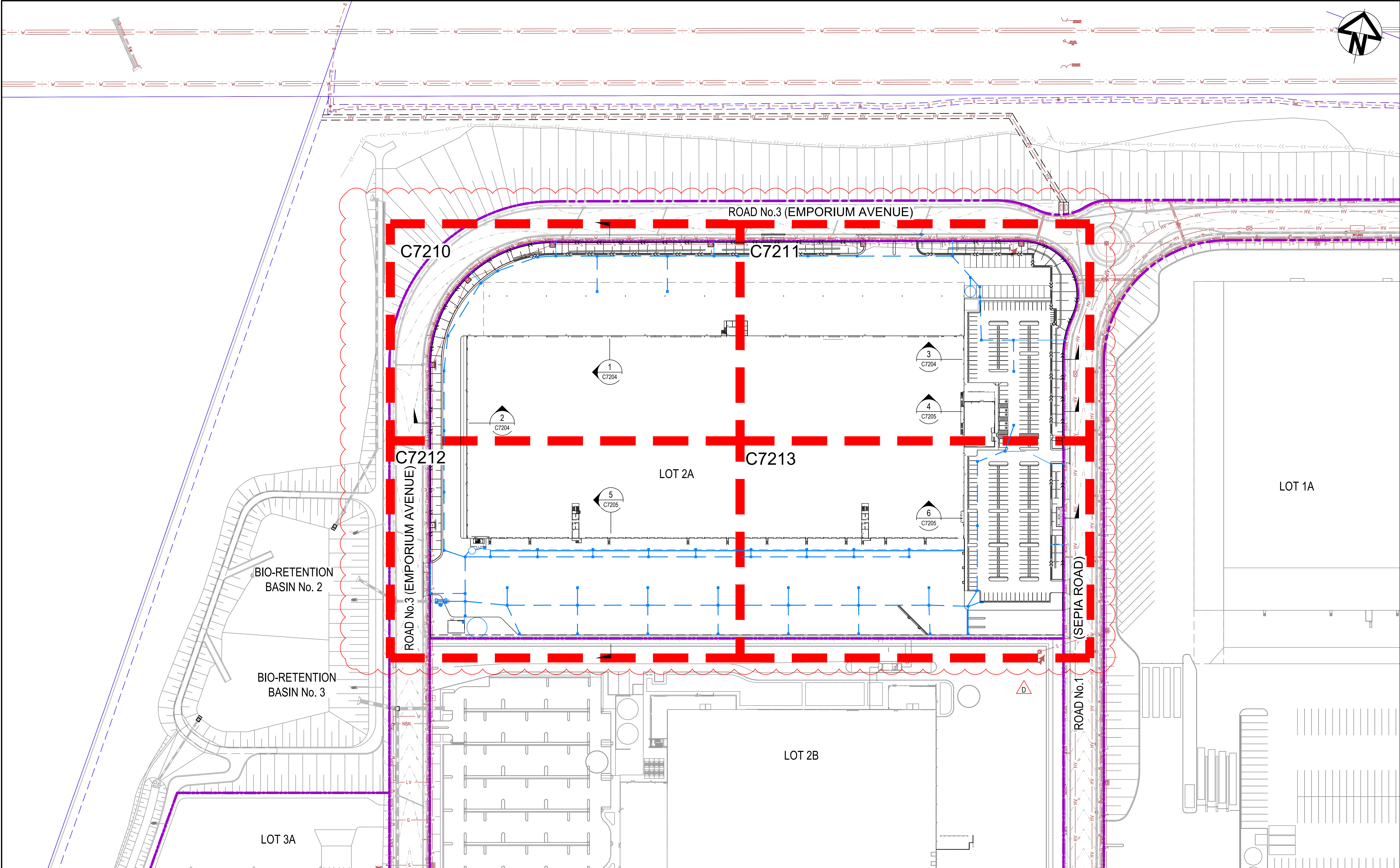
9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, 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

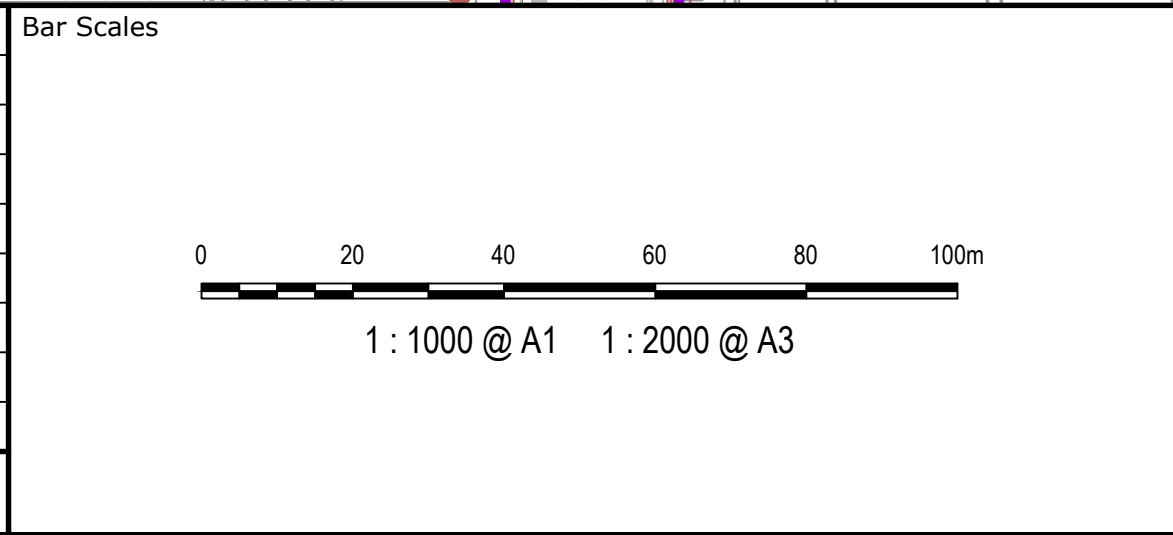
13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- (A) PROTECTING THEM WITH BARRIER FENCING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

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A	ISSUED FOR CLIENT REVIEW				14-10-21								
P2	ISSUED FOR DRAFT				12-11-20								
P1	ISSUED FOR DRAFT				03-11-20								
Issue	Description				Date								





Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
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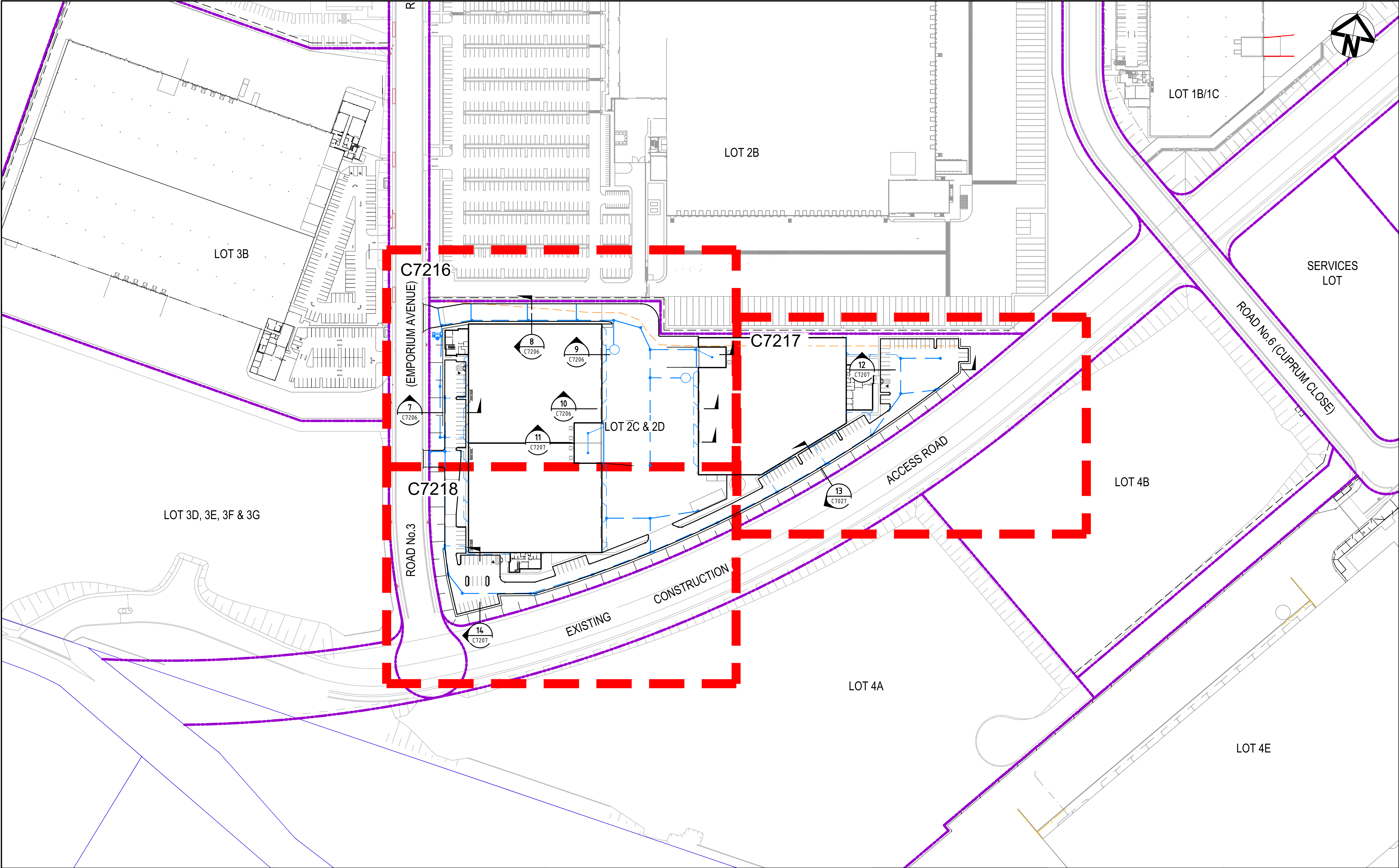


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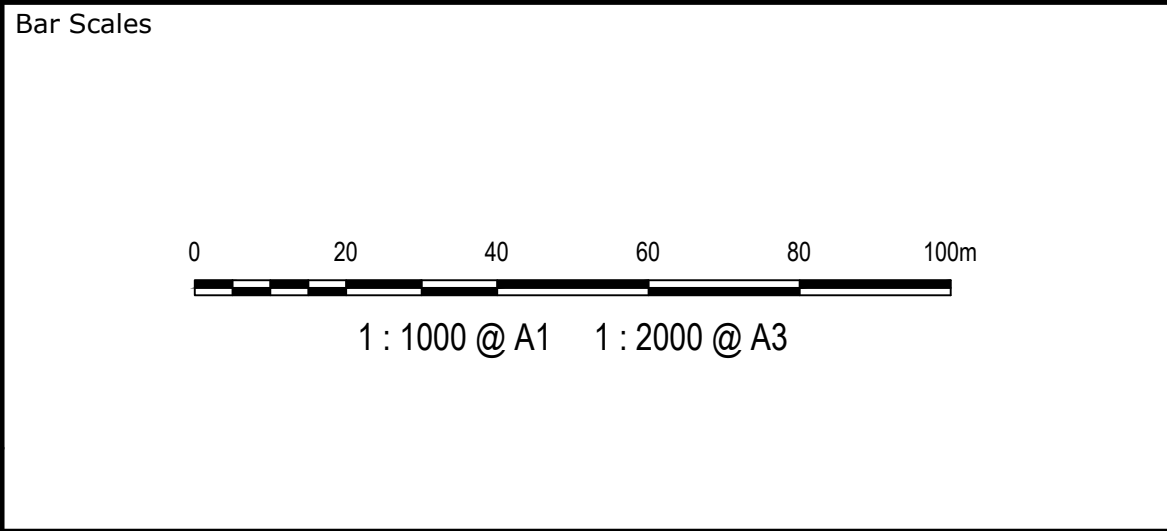
Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	GENERAL ARRANGEMENT PLAN SHEET 1

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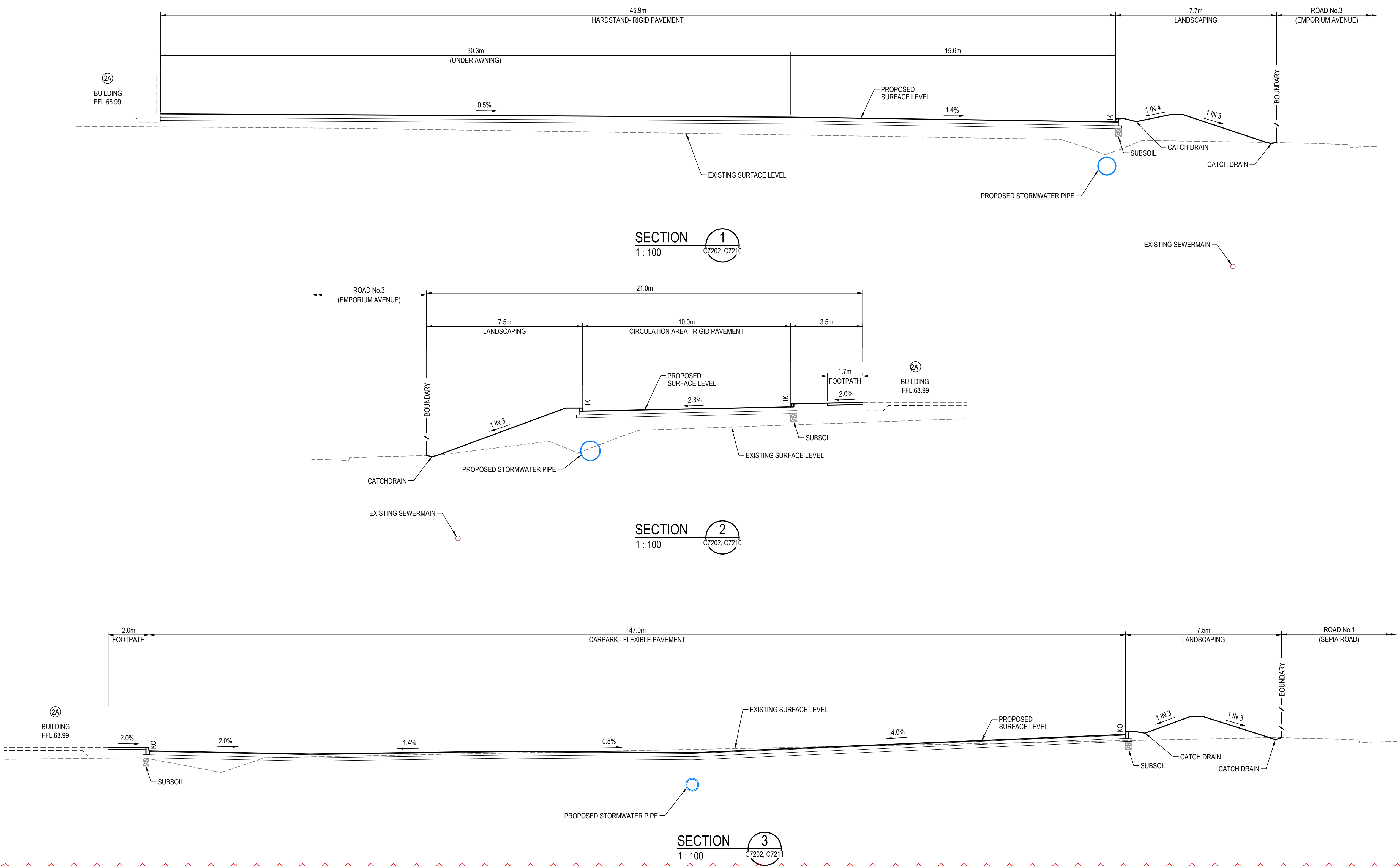


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Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	GENERAL ARRANGEMENT PLAN SHEET 2

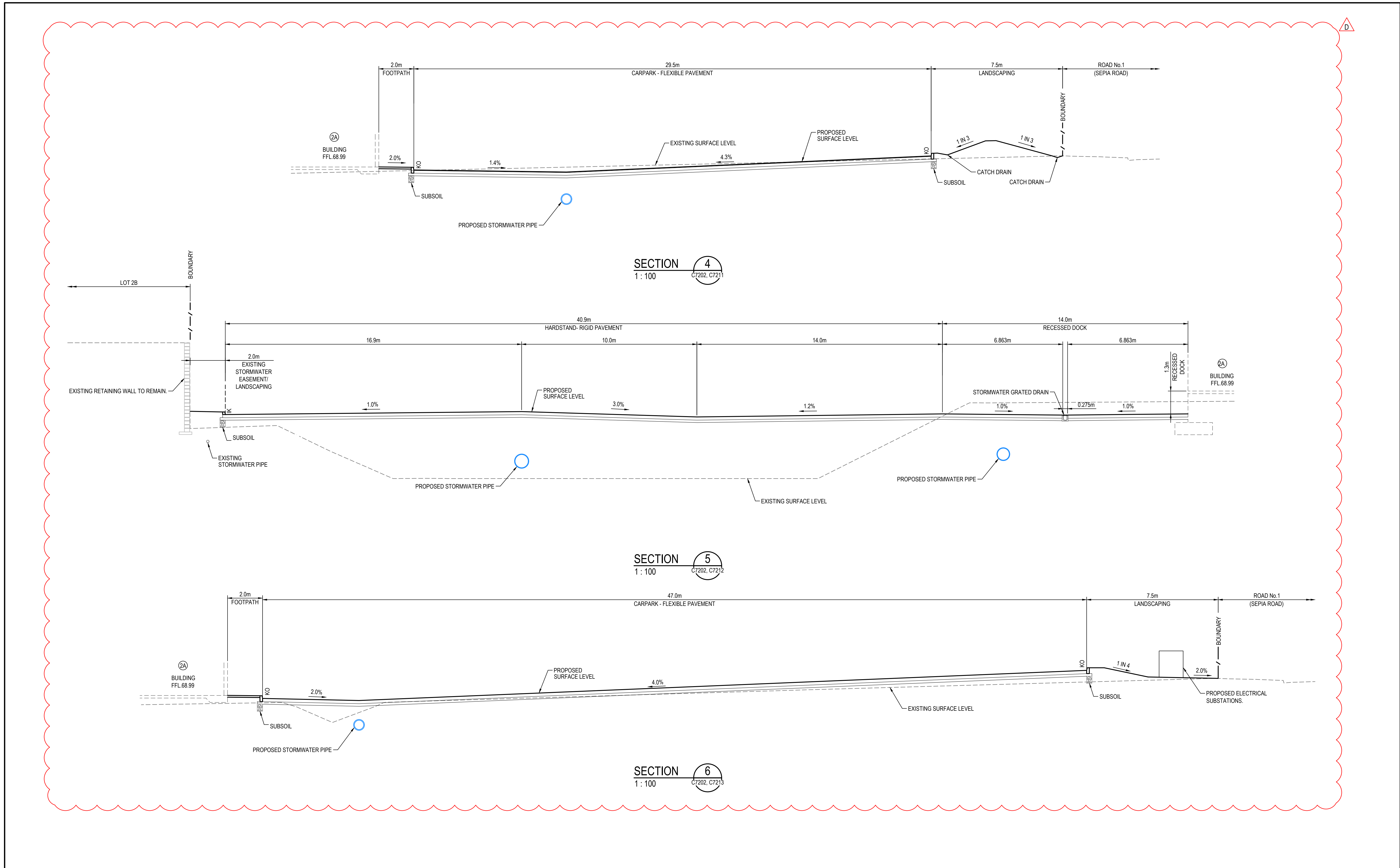
Civil Engineers and Project Managers		
<b>at&amp;l</b>		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	15-272-C7203	Issue C





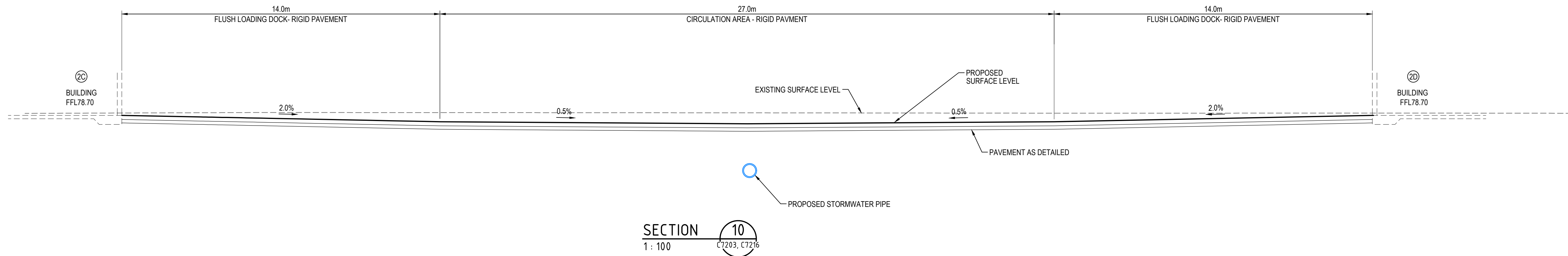
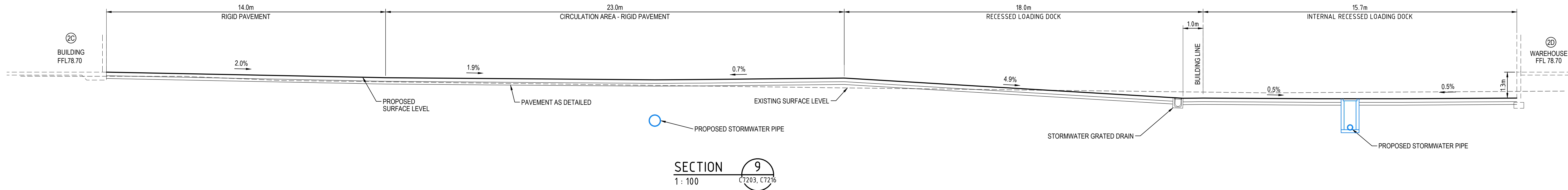
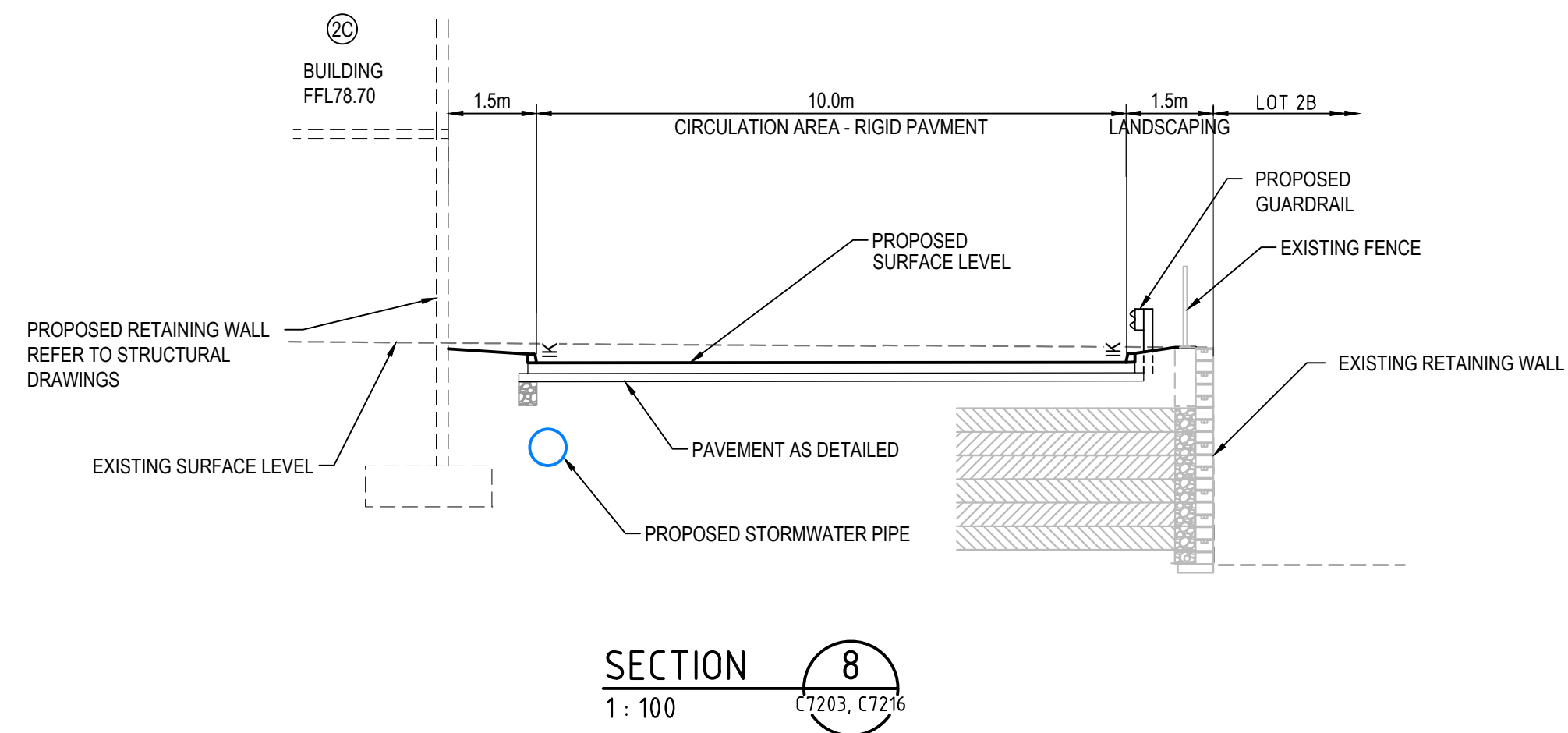
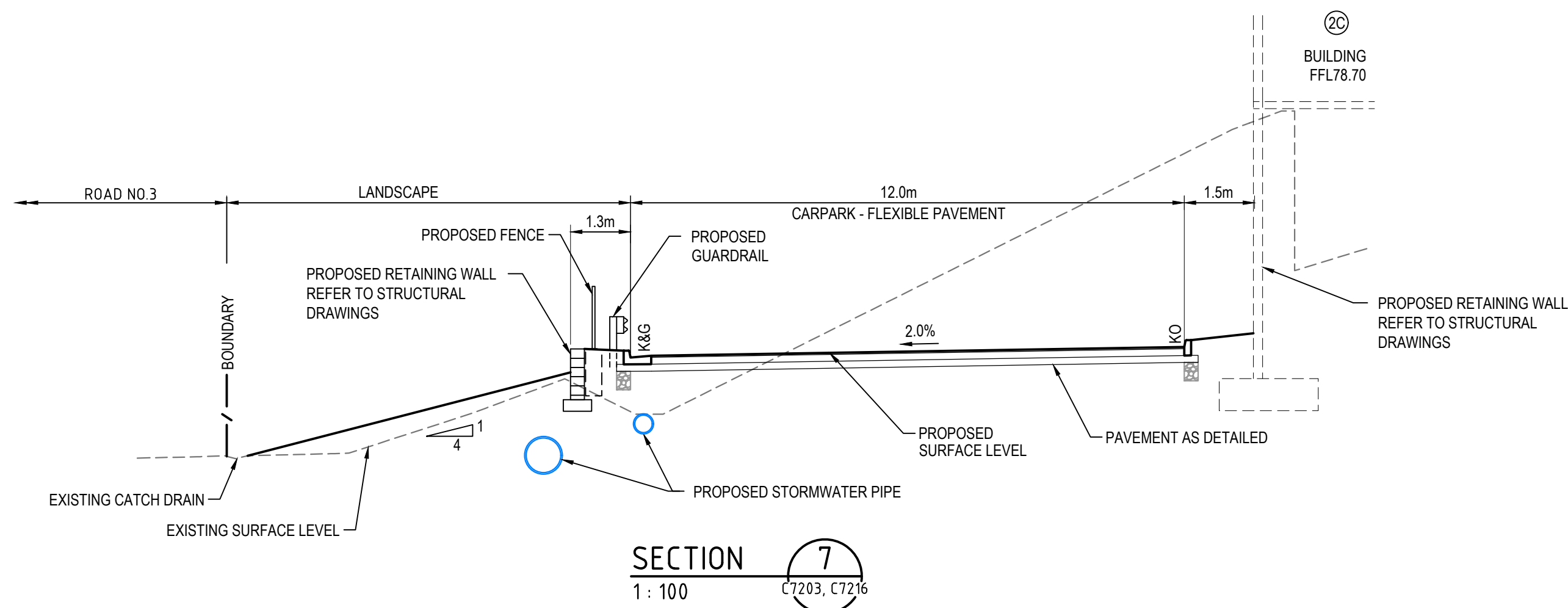
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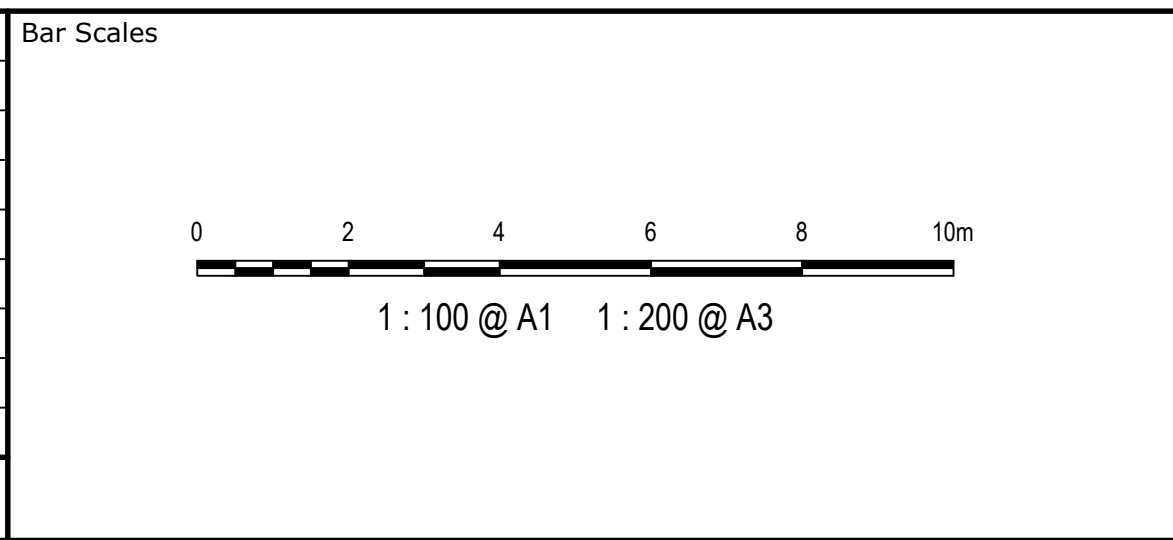


			Bar Scales	<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>0246810m</div><div>1 : 100 @ A1 1 : 200 @ A3</div></div>	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>Goodman</div><div></div></div>	Scales	Drawn	GB	Project <div>PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST</div>	Civil Engineers and Project Managers <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>at&amp;l</div><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>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20
Issue	Description	Date



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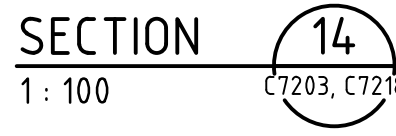
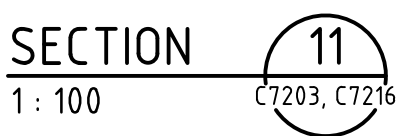


Scales	1 : 100	Drawn	JC
		Designed	JC
Grid	MGA	Checked	DS
Height Datum	AHD	Approved	AM

Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	TYPICAL SECTIONS 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	A1
Project - Drawing No.	15-272-C7206	Issue C





Bar Scales


0 2 4 6 8 10m

1: 100 @ A1 1: 200 @ A3

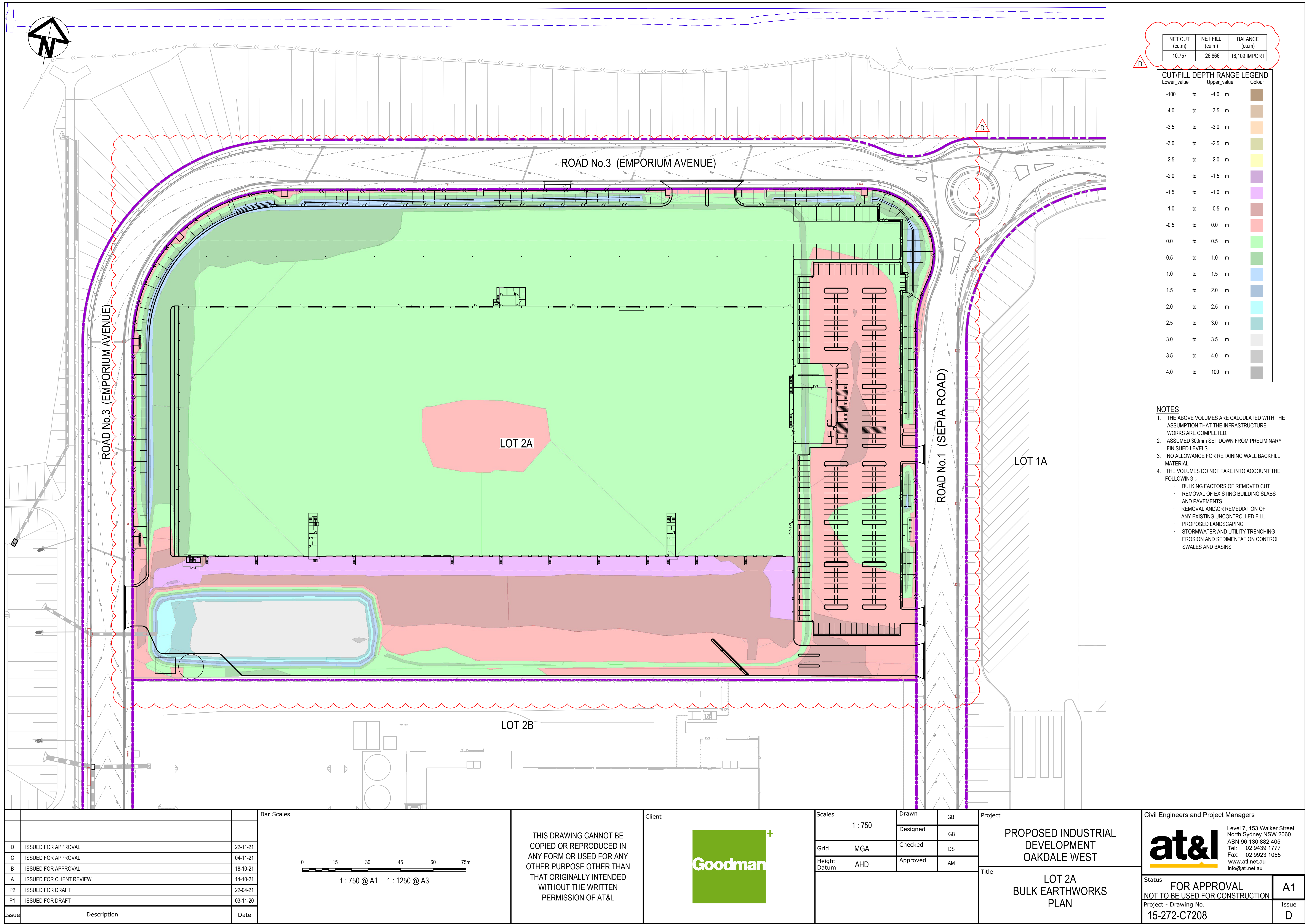
Client



Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	TYPICAL SECTIONS SHEET 4

		<p>Civil Engineers and Project Managers</p> <p>Level 7, 153 Walker Street North Sydney NSW 2060</p> <p>ABN 96 130 882 405</p> <p>Tel: 02 9439 1777</p> <p>Fax: 02 9923 1055</p> <p><a href="http://www.atl.net.au">www.atl.net.au</a> <a href="mailto:info@atl.net.au">info@atl.net.au</a></p>
<p>Status</p> <p><b>FOR APPROVAL</b></p> <p><b>NOT TO BE USED FOR CONSTRUCTION</b></p> <p>Project - Drawing No.</p> <p><b>15-272-C7207</b></p>	<p><b>A1</b></p> <p>Issue</p> <p><b>C</b></p>	





NET CUT (cu.m)			NET FILL (cu.m)			BALANCE (cu.m)		
10,757			26,866			16,109 IMPORT		

CUT/FILL DEPTH RANGE LEGEND		
Lower_value	Upper_value	Colour
-100	to -4.0	m
-4.0	to -3.5	m
-3.5	to -3.0	m
-3.0	to -2.5	m
-2.5	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.0	m
-1.0	to -0.5	m
-0.5	to 0.0	m
0.0	to 0.5	m
0.5	to 1.0	m
1.0	to 1.5	m
1.5	to 2.0	m
2.0	to 2.5	m
2.5	to 3.0	m
3.0	to 3.5	m
3.5	to 4.0	m
4.0	to 100	m

- NOTES
- THE ABOVE VOLUMES ARE CALCULATED WITH THE ASSUMPTION THAT THE INFRASTRUCTURE WORKS ARE COMPLETED.
  - ASSUMED 300mm SET DOWN FROM PRELIMINARY FINISHED LEVELS.
  - NO ALLOWANCE FOR RETAINING WALL BACKFILL MATERIAL
  - THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
    - BULKING FACTORS OF REMOVED CUT
    - REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
    - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
    - PROPOSED LANDSCAPING
    - STORMWATER AND UTILITY TRENCHING
    - EROSION AND SEDIMENTATION CONTROL SWALES AND BASINS

Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P2	ISSUED FOR DRAFT	22-04-21
P1	ISSUED FOR DRAFT	03-11-20

Bar Scales
0 15 30 45 60 75m
1 : 750 @ A1 1 : 1250 @ A3


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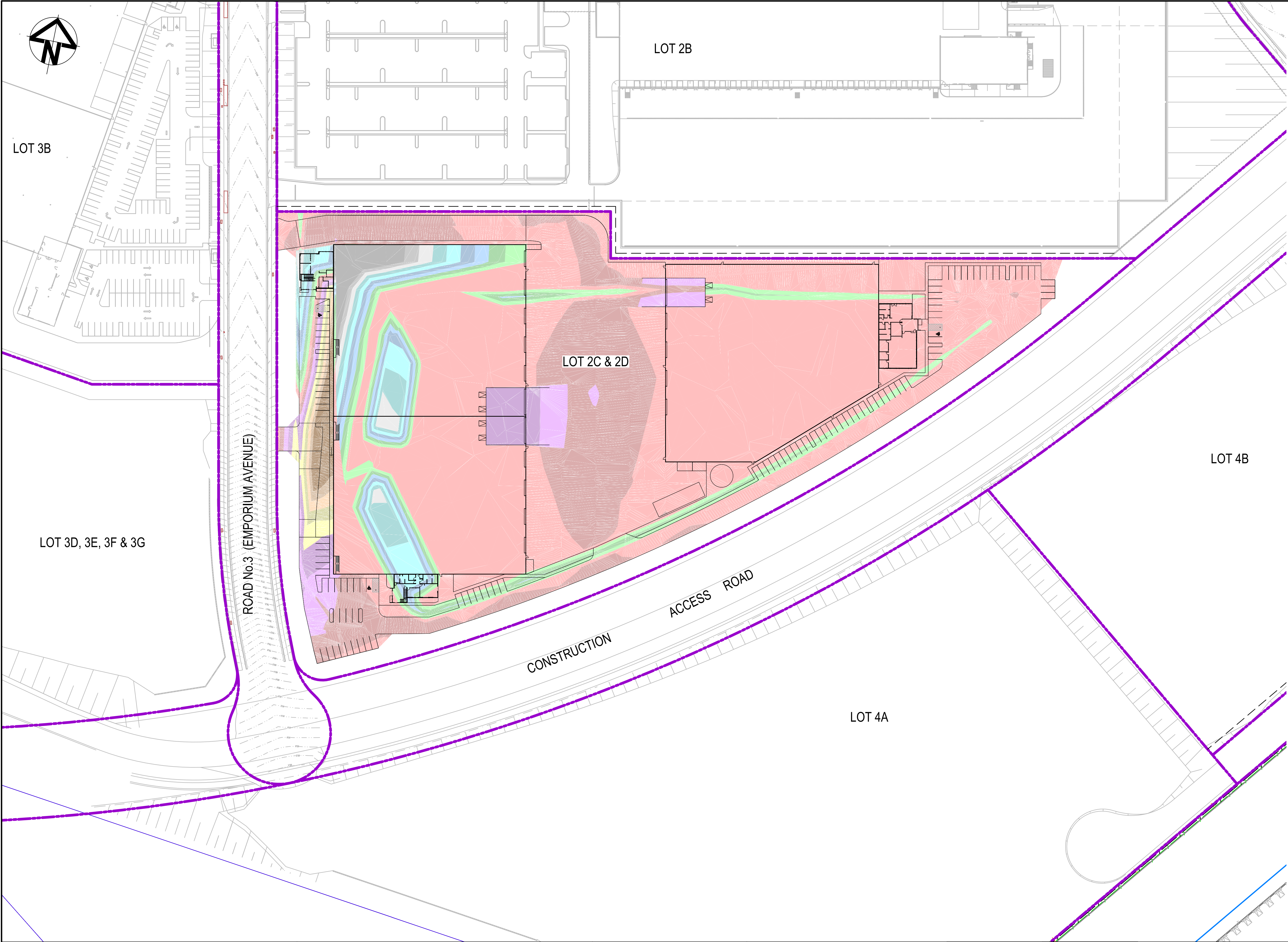
Scales	1 : 750
Grid	MGA
Height Datum	AHD

Drawn	GB
Designed	GB
Checked	DS
Approved	AM

Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	LOT 2A BULK EARTHWORKS PLAN

Civil Engineers and Project Managers		
	Level 7, 153 Walker Street North Sydney NSW 2060	
	ABN 96 130 882 405	
	Tel: 02 9439 1777	
	Fax: 02 9923 1055	
	www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		Issue
Project - Drawing No.		
15-272-C7208		
		D



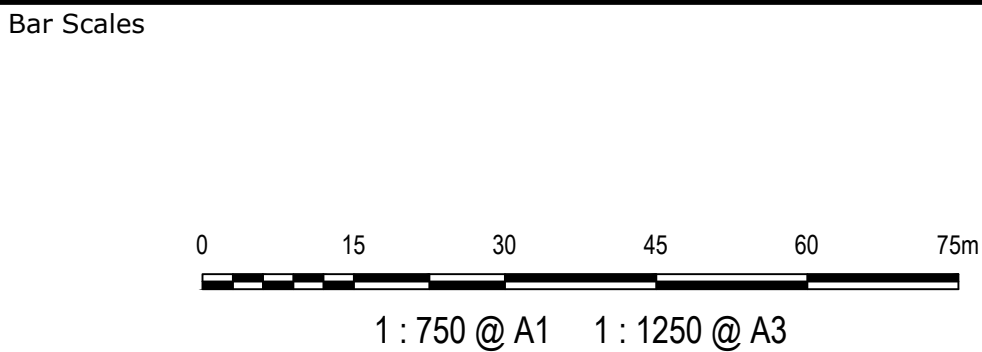


NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
14,596	8,604	5,992 EXPORT

CUT/FILL DEPTH RANGE LEGEND		
Lower_value	Upper_value	Colour
-100	to -4.0	m
-4.0	to -3.5	m
-3.5	to -3.0	m
-3.0	to -2.5	m
-2.5	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.0	m
-1.0	to -0.5	m
-0.5	to 0.0	m
0.0	to 0.5	m
0.5	to 1.0	m
1.0	to 1.5	m
1.5	to 2.0	m
2.0	to 2.5	m
2.5	to 3.0	m
3.0	to 3.5	m
3.5	to 4.0	m
4.0	to 100	m

- NOTES
1. THE ABOVE VOLUMES ARE CALCULATED WITH THE ASSUMPTION THAT THE INFRASTRUCTURE WORKS ARE COMPLETED.
  2. ASSUMED 300mm SET DOWN FROM PRELIMINARY FINISHED LEVELS.
  3. NO ALLOWANCE FOR RETAINING WALL BACKFILL MATERIAL.
  4. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
    - BULKING FACTORS OF REMOVED CUT
    - REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
    - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
    - PROPOSED LANDSCAPING
    - STORMWATER AND UTILITY TRENCHING
    - EROSION AND SEDIMENTATION CONTROL SWALES AND BASINS

Issue	Description	Date
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20



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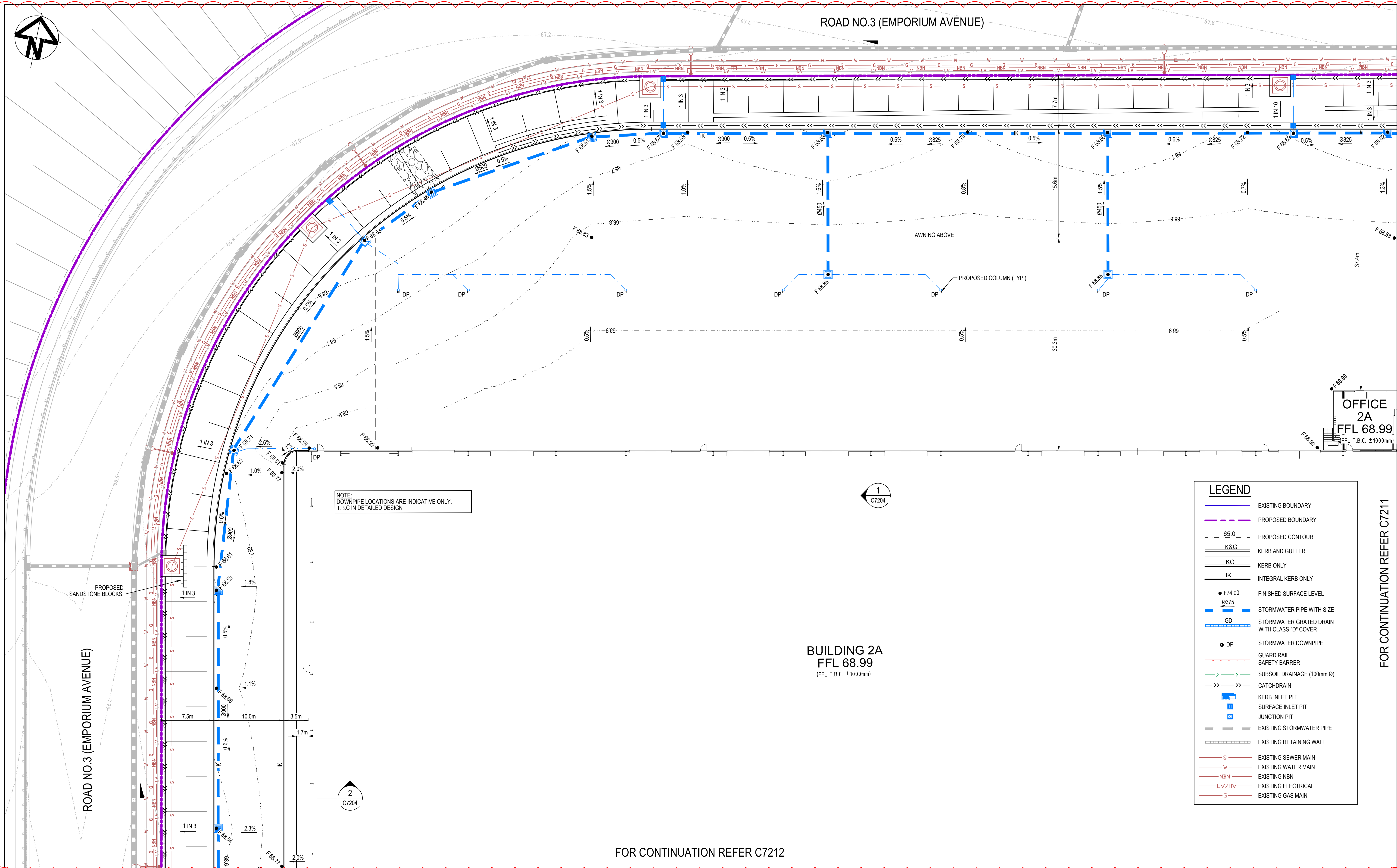


Scales	1 : 750	Drawn	
		Designed	JC
Grid	MGA	Checked	
		DS	
Height Datum	AHD	Approved	
		AM	

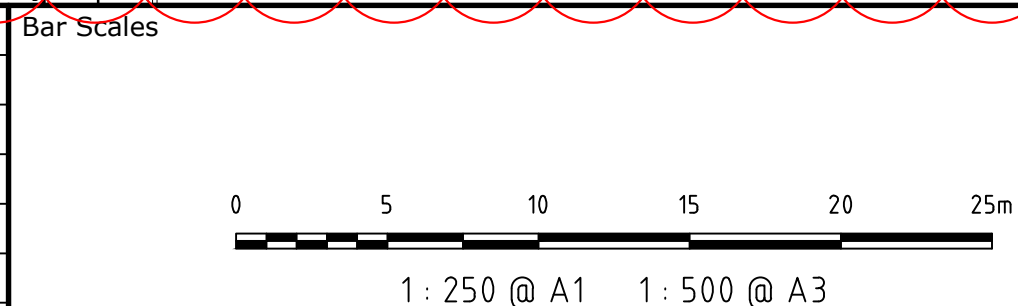
Project	
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST	
Title	
LOT 2C/2D BULK EARTHWORKS PLAN	

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		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	15-272-C7209	Issue C





Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P2	ISSUED FOR DRAFT	22-04-21
P1	ISSUED FOR DRAFT	03-11-20



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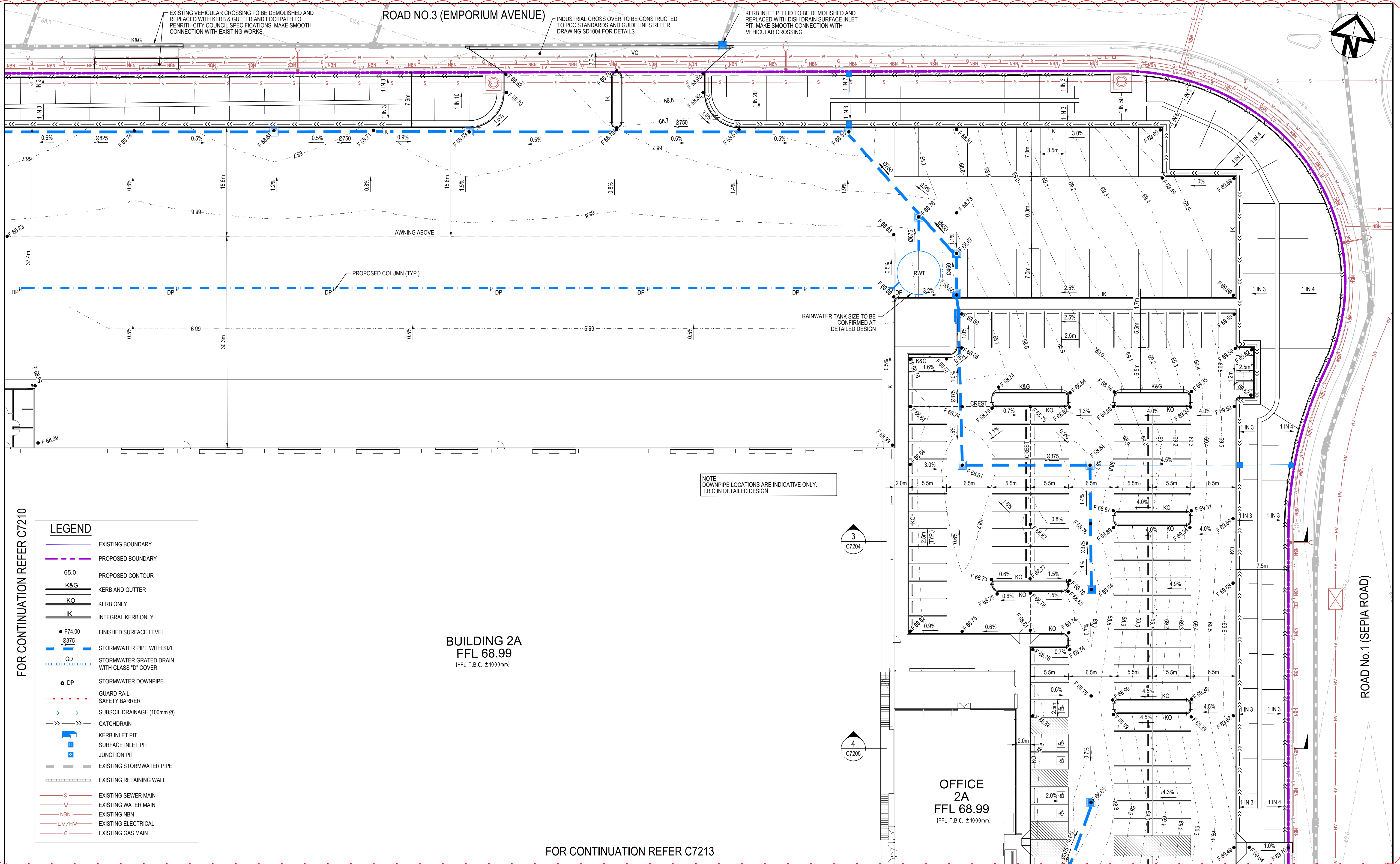


Scales	Drawn	Project
1 : 250	Designed	GB
Grid MGA	Checked	DS
Height Datum AHD	Approved	AM

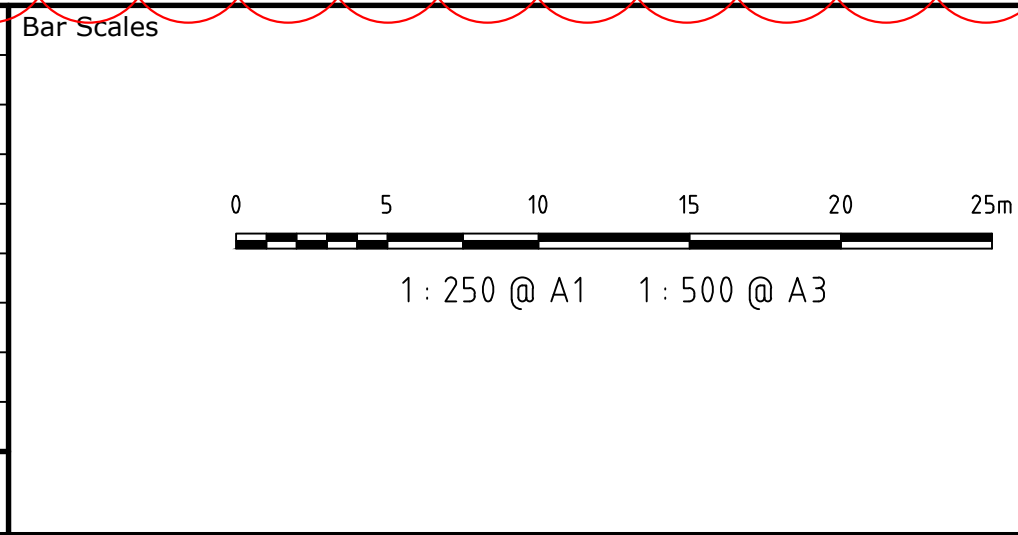
Title	Project
LOT 2A SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Civil Engineers and Project Managers	Status	Issue
<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	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 15-272-C7210	A1 Issue D





Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P2	ISSUED FOR DRAFT	22-04-21
P1	ISSUED FOR DRAFT	03-11-20



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Client

Goodman

Scales	Drawn	Project
1 : 250	Designed	GB
Grid MGA	Checked	DS
Height Datum AHD	Approved	AM

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

LOT 2A SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

Civil Engineers and Project Managers

at&l

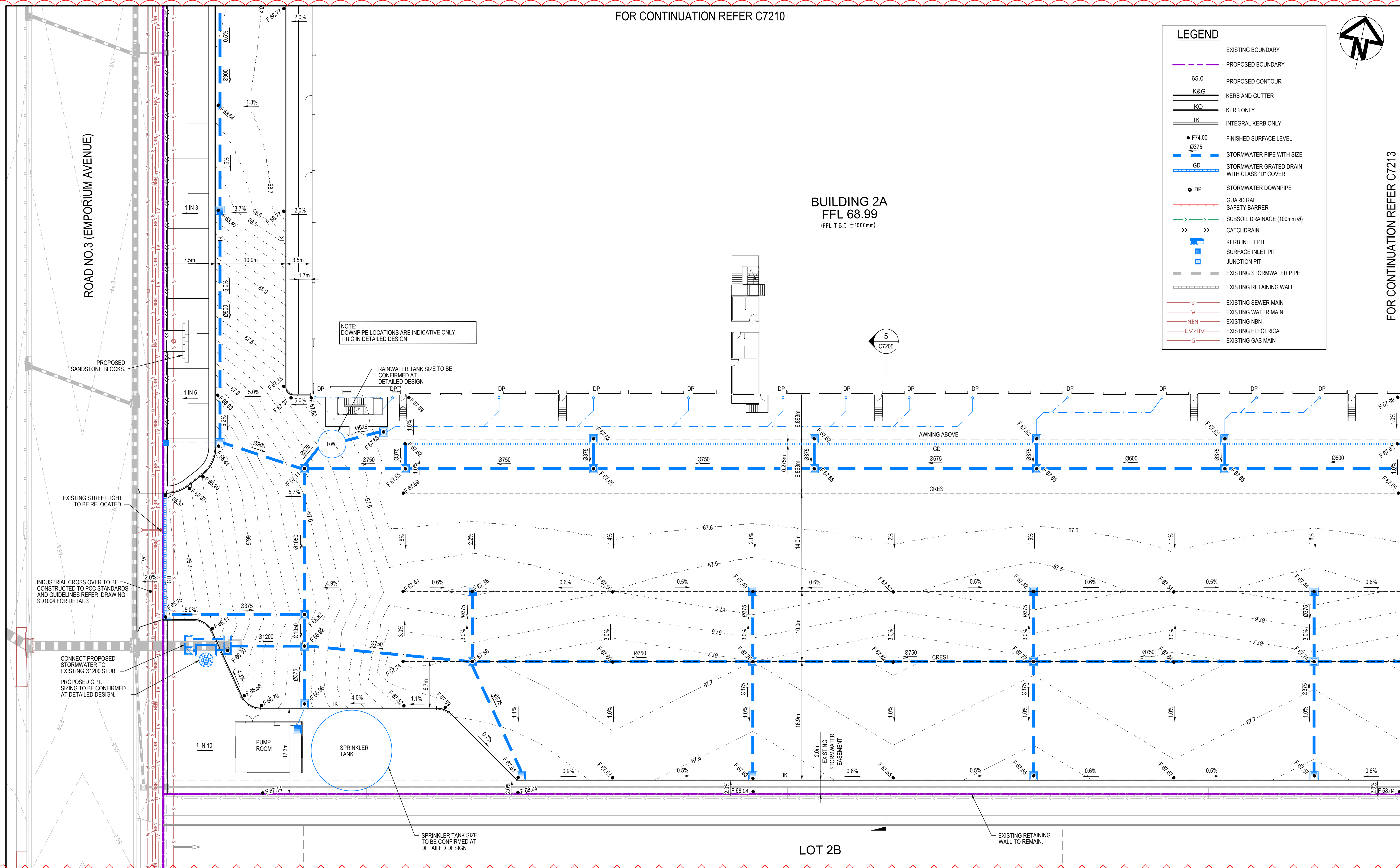
Level 7, 153 Walker Street North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION  
Project - Drawing No. 15-272-C7211

A1  
Issue D



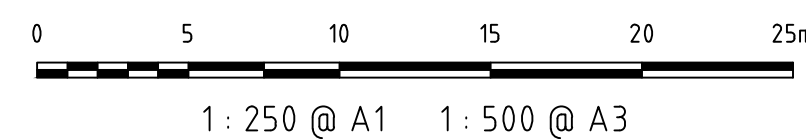
FOR CONTINUATION REFER C7210



FOR CONTINUATION REFER C7213

Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20

Bar Scales



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Client



Scales

1 : 250

Grid MGA

Height Datum AHD

Drawn

GB

Designed

GB

Checked

DS

Approved

AM

Project

PROPOSED INDUSTRIAL  
DEVELOPMENT  
OAKDALE WEST

Title

LOT 2A SITEWORKS AND  
STORMWATER DRAINAGE  
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.

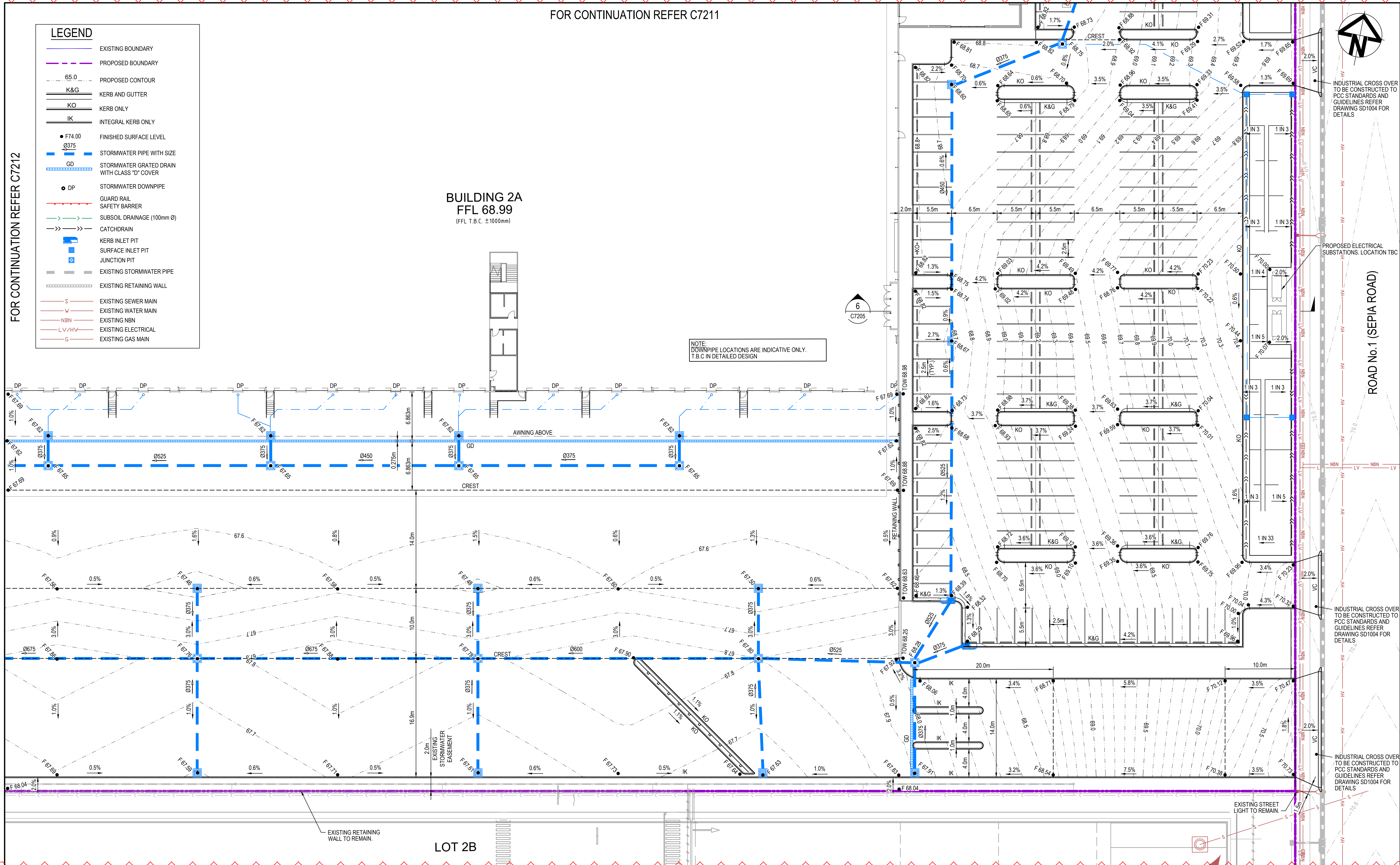
15-272-C7212

A1

Issue

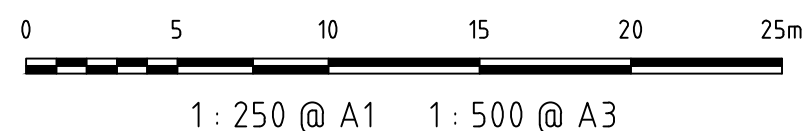
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Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20

Bar Scales



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Client



Scales

1 : 250

Grid

MGA

Height Datum

AHD

Drawn

GB

Designed

GB

Checked

DS

Approved

AM

Project

PROPOSED INDUSTRIAL  
DEVELOPMENT  
OAKDALE WEST

Title

LOT 2A SITEWORKS AND  
STORMWATER DRAINAGE  
PLAN  
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

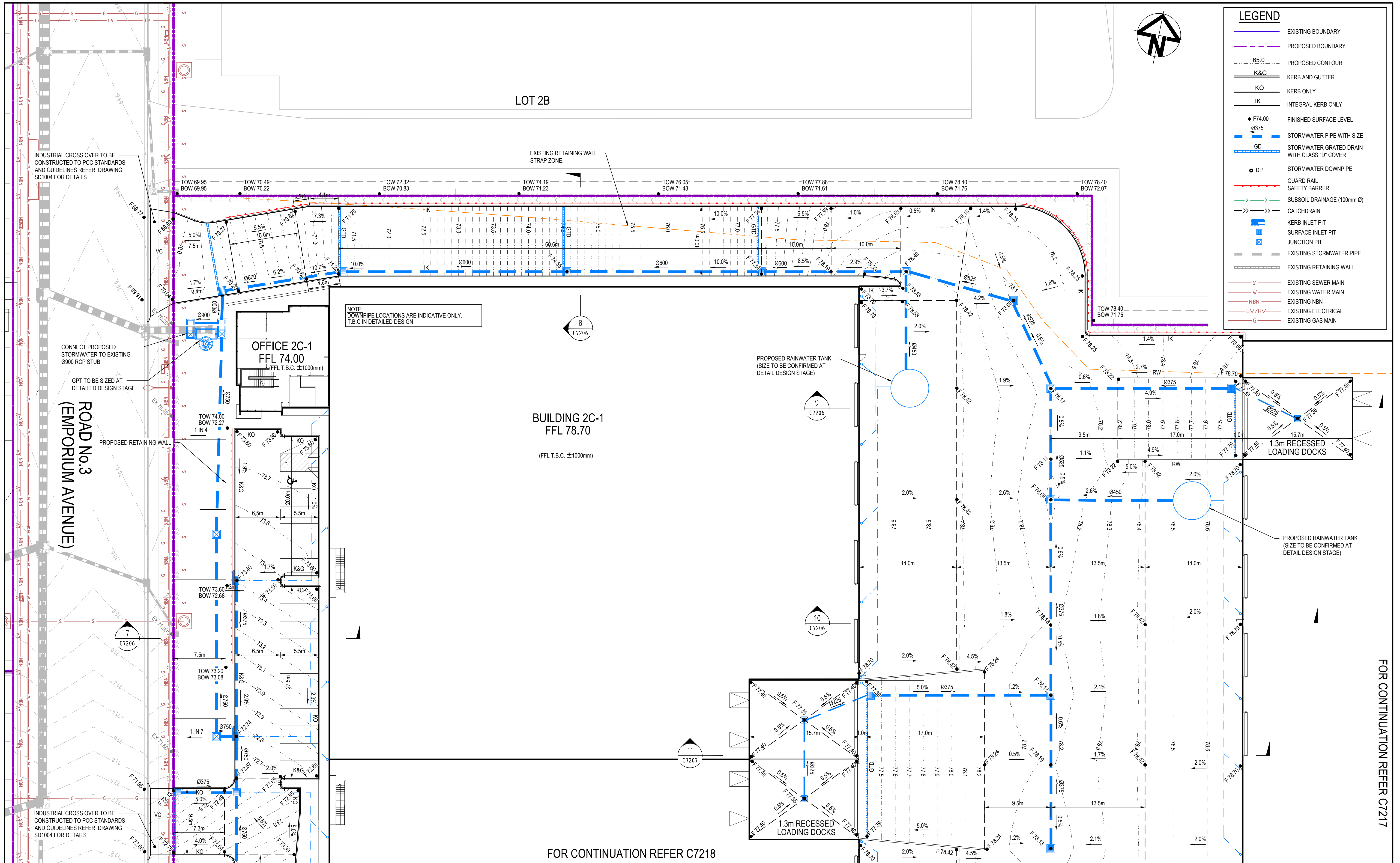
Project - Drawing No.

15-272-C7213

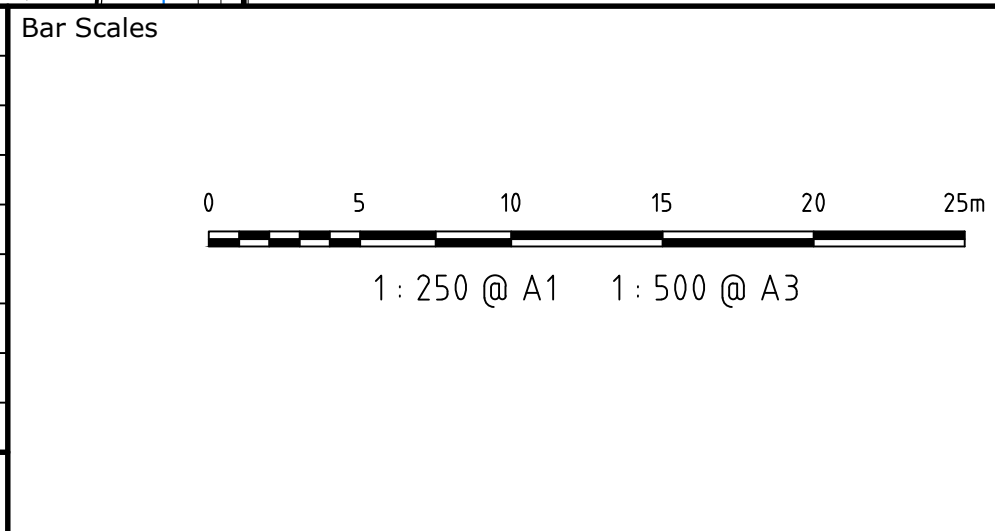
Issue

D





Issue	Description	Date
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20



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Scales	1: 250	Drawn	JC
		Designed	JC
Grid	MGA	Checked	DS
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

LOT 2C/2D SITEWORKS 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.atl.net.au  
info@atl.net.au

Status

FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION

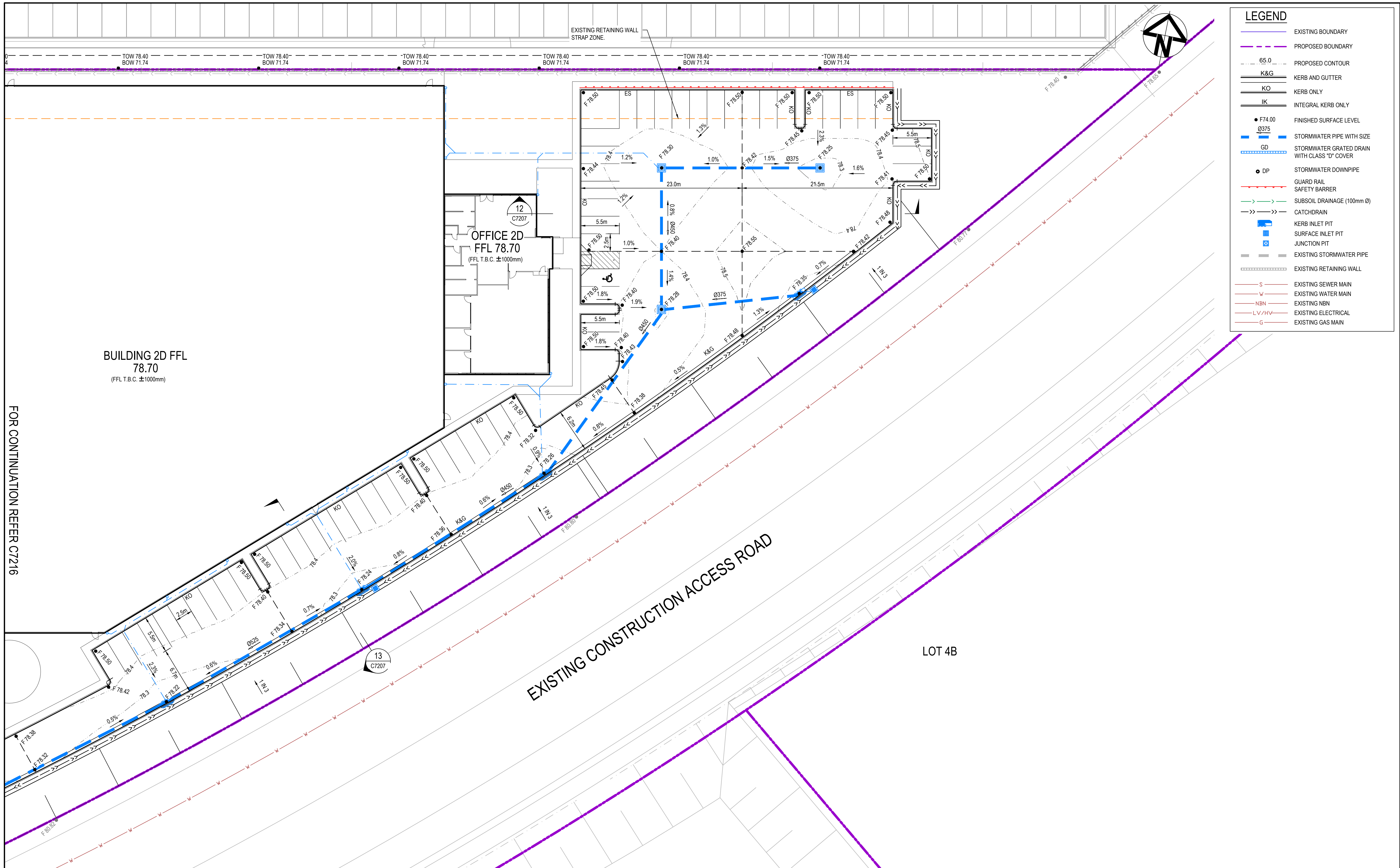
Project - Drawing No.

15-272-C7216

Issue

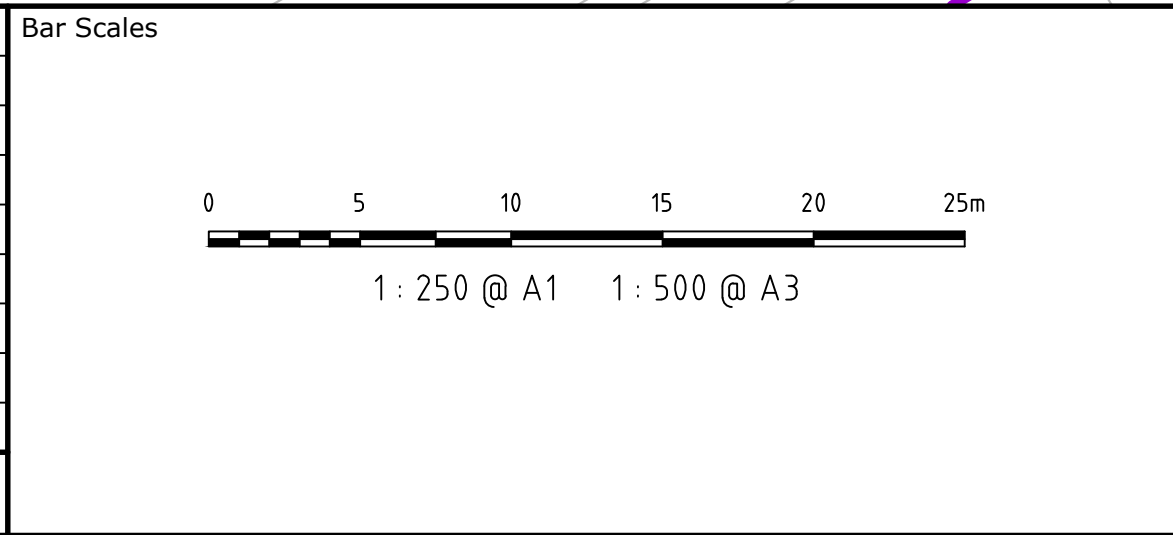
C





FOR CONTINUATION REFER C7216

C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20
Issue	Description	Date



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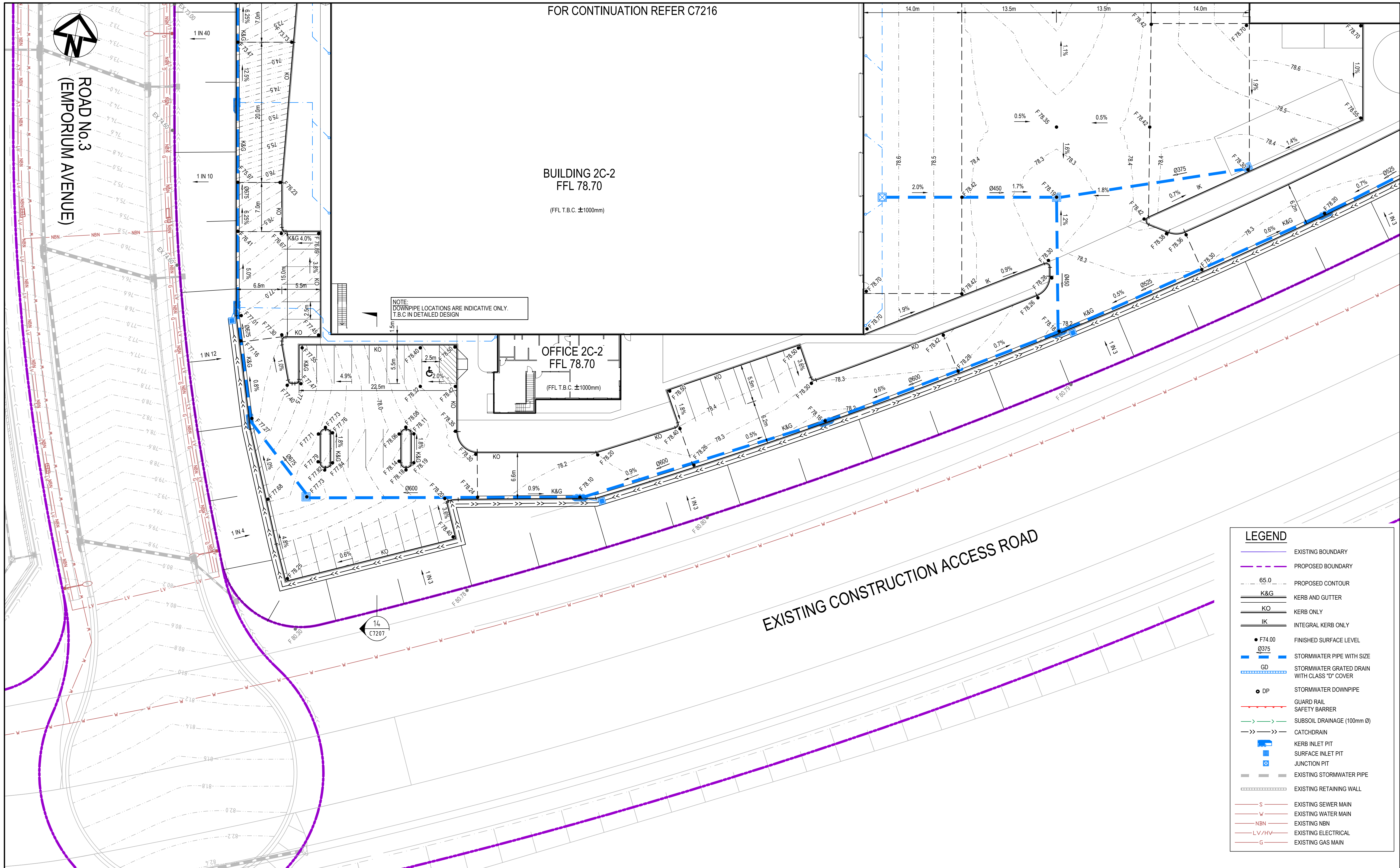


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		Designed	JC
		Checked	DS
Grid	MGA	Approved	AM
Height Datum	AHD		

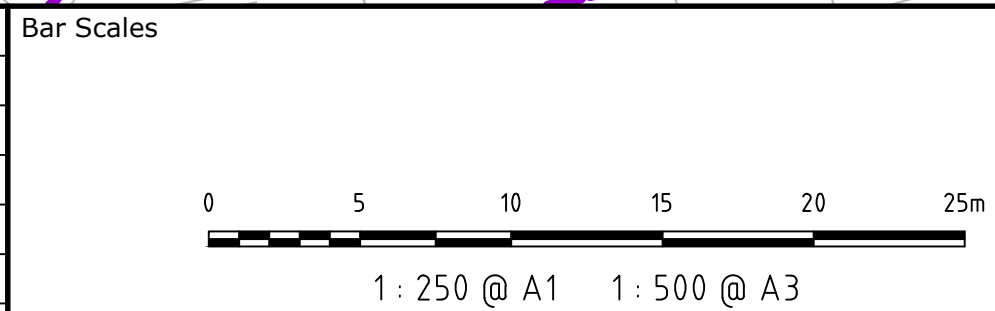
Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	LOT 2C/2D SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	15-272-C7217	Issue C





C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20
Issue	Description	Date




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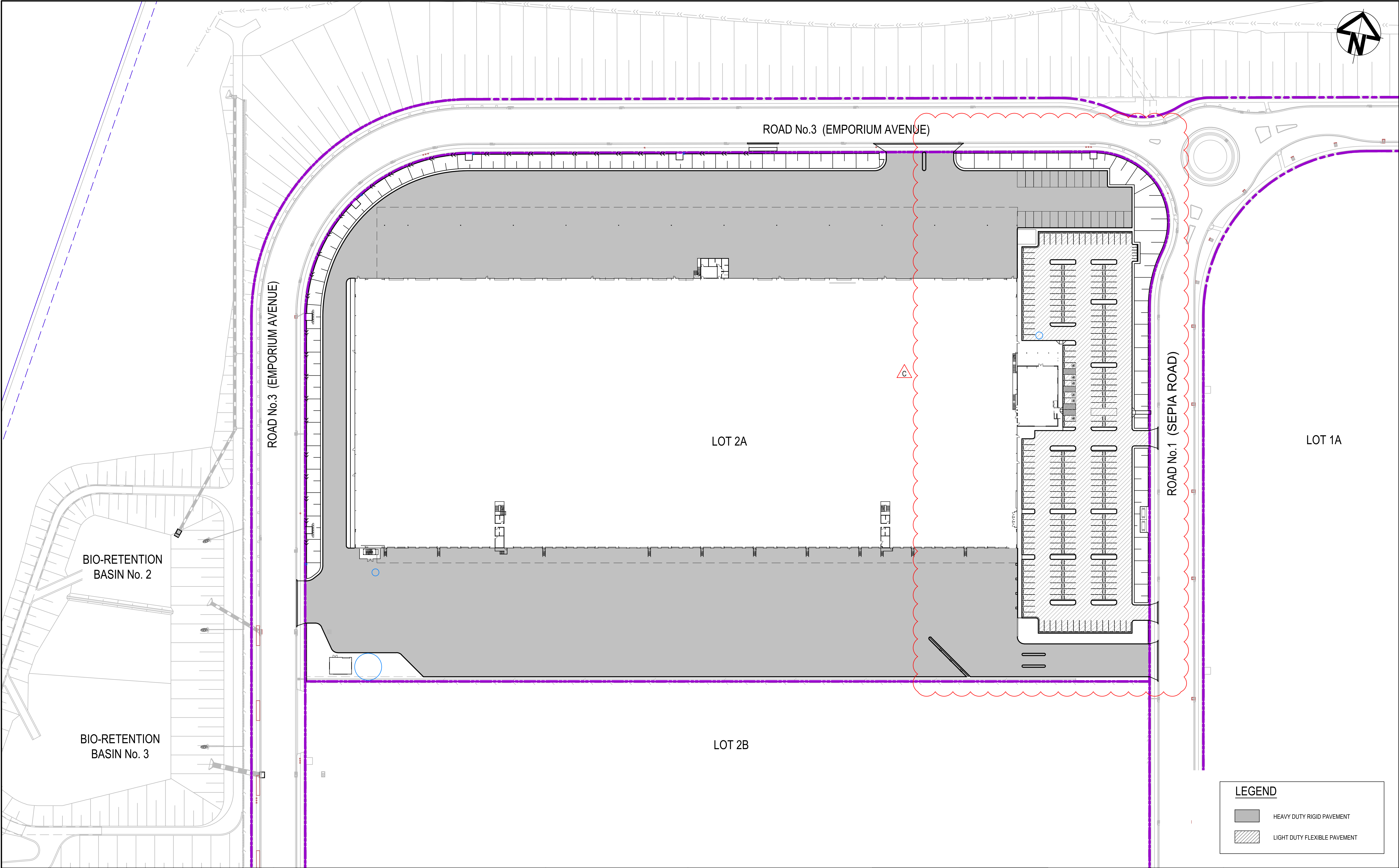


Scales	1: 250	Drawn	JC
Grid	MGA	Designed	JC
Height Datum	AHD	Checked	DS
		Approved	AM

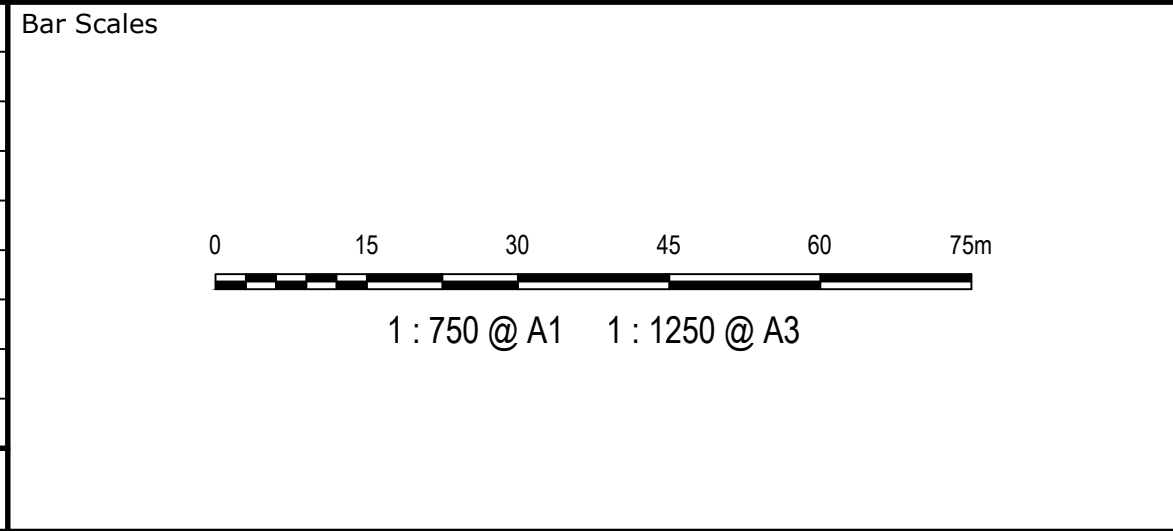
Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	LOT 2C/2D SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3

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	A1
Project - Drawing No. 15-272-C7218		Issue C





C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P2	ISSUED FOR DRAFT	22-04-21
P1	ISSUED FOR DRAFT	03-11-20
Issue	Description	Date



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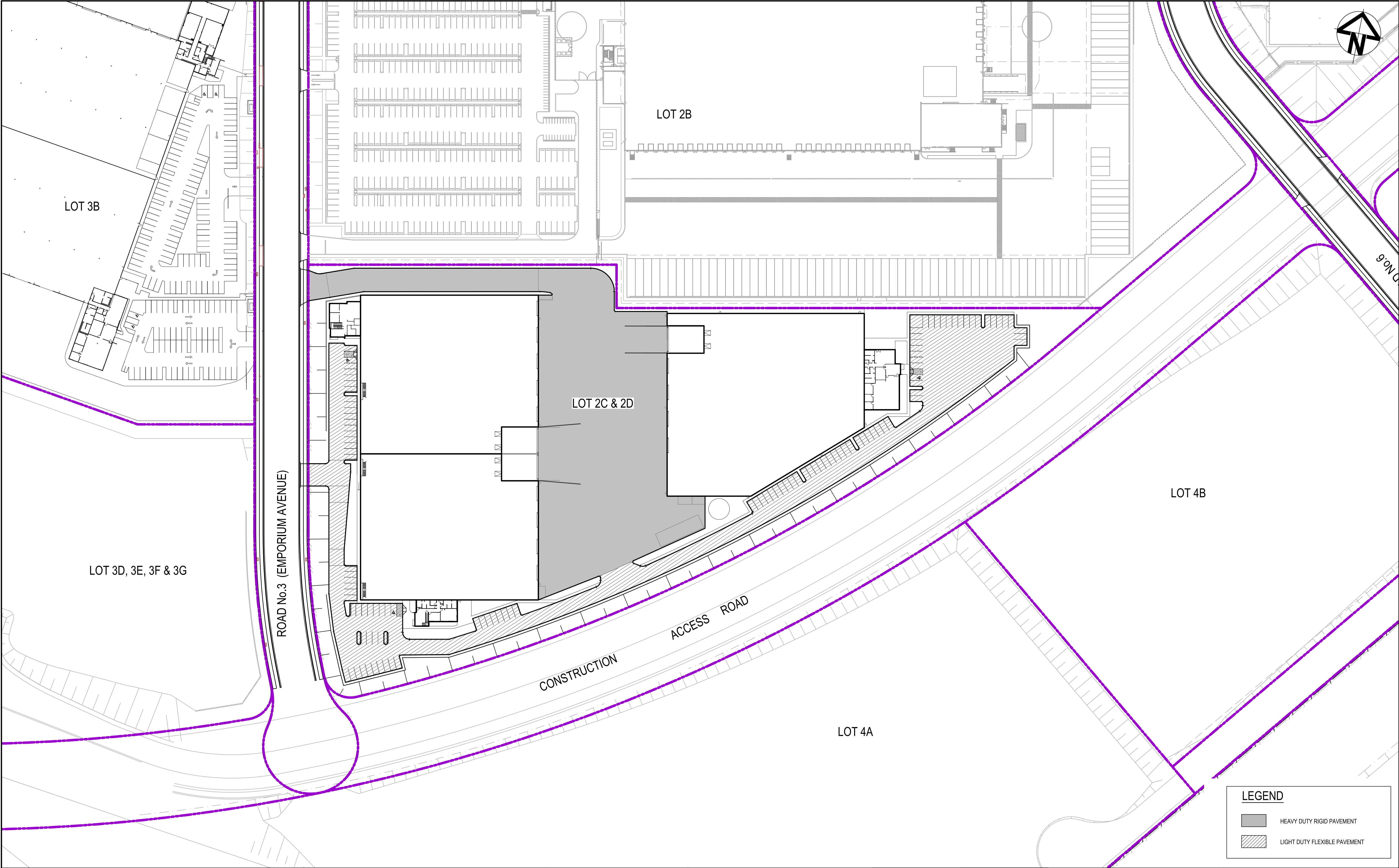


Scales	1 : 750	Drawn	GB
		Designed	GB
Grid	MGA	Checked	DS
Height Datum	AHD	Approved	AM

Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	LOT 2A PAVEMENT PLAN

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		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	15-272-C7219	Issue C





LEGEND

HEAVY DUTY RIGID PAVEMENT

LIGHT DUTY FLEXIBLE PAVEMENT

C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20
Issue	Description	Date

Bar Scales

01530456075m

1 : 750 @ A1    1 : 1250 @ A3

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Client

Goodman

Scales	1 : 750	Drawn	JC
		Designed	JC
		Checked	DS
Grid	MGA	Approved	AM
Height Datum	AHD		

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

LOT 2C/2D PAVEMENT 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

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NOT TO BE USED FOR CONSTRUCTION

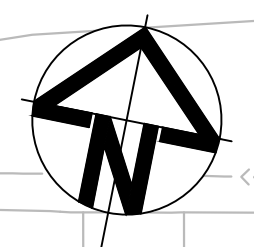
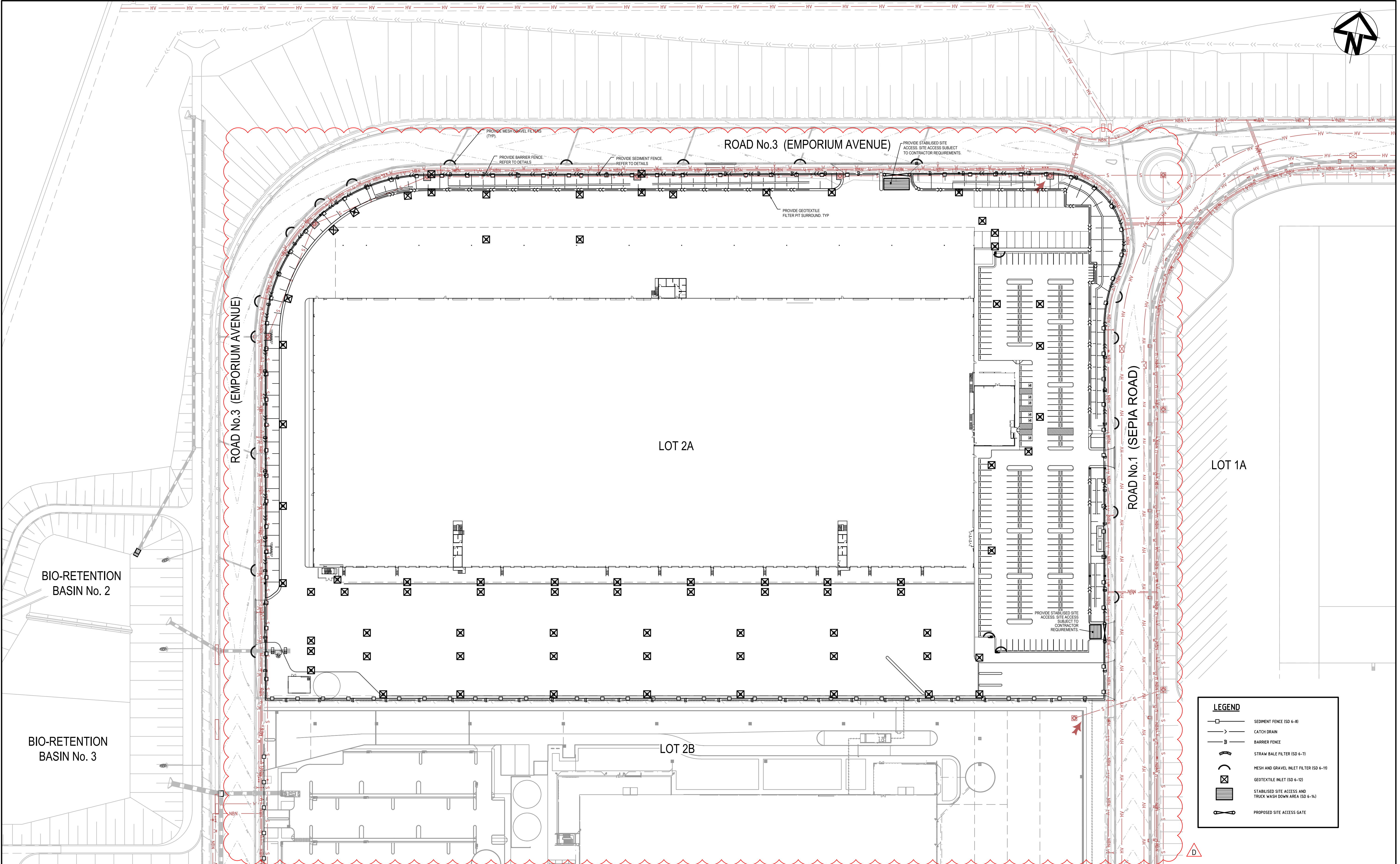
Project - Drawing No.

15-272-C7220

Issue

C





LEGEND	
	SEDIMENT FENCE (SD 6-8)
	CATCH DRAIN
	BARRIER FENCE
	STRAW BALE FILTER (SD 6-7)
	MESH AND GRAVEL INLET FILTER (SD 6-10)
	GEOTEXTILE INLET (SD 6-12)
	STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
	PROPOSED SITE ACCESS GATE

Issue	Description	Date
D	ISSUED FOR APPROVAL	22-11-21
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P2	ISSUED FOR DRAFT	22-04-21
P1	ISSUED FOR DRAFT	03-11-20

Bar Scales

0 15 30 45 60 75m

1 : 750 @ A1 1 : 1250 @ A3

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Client

Scales	1 : 750	Drawn	GB
Grid	MGA	Designed	GB
Height Datum	AHD	Checked	DS
		Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

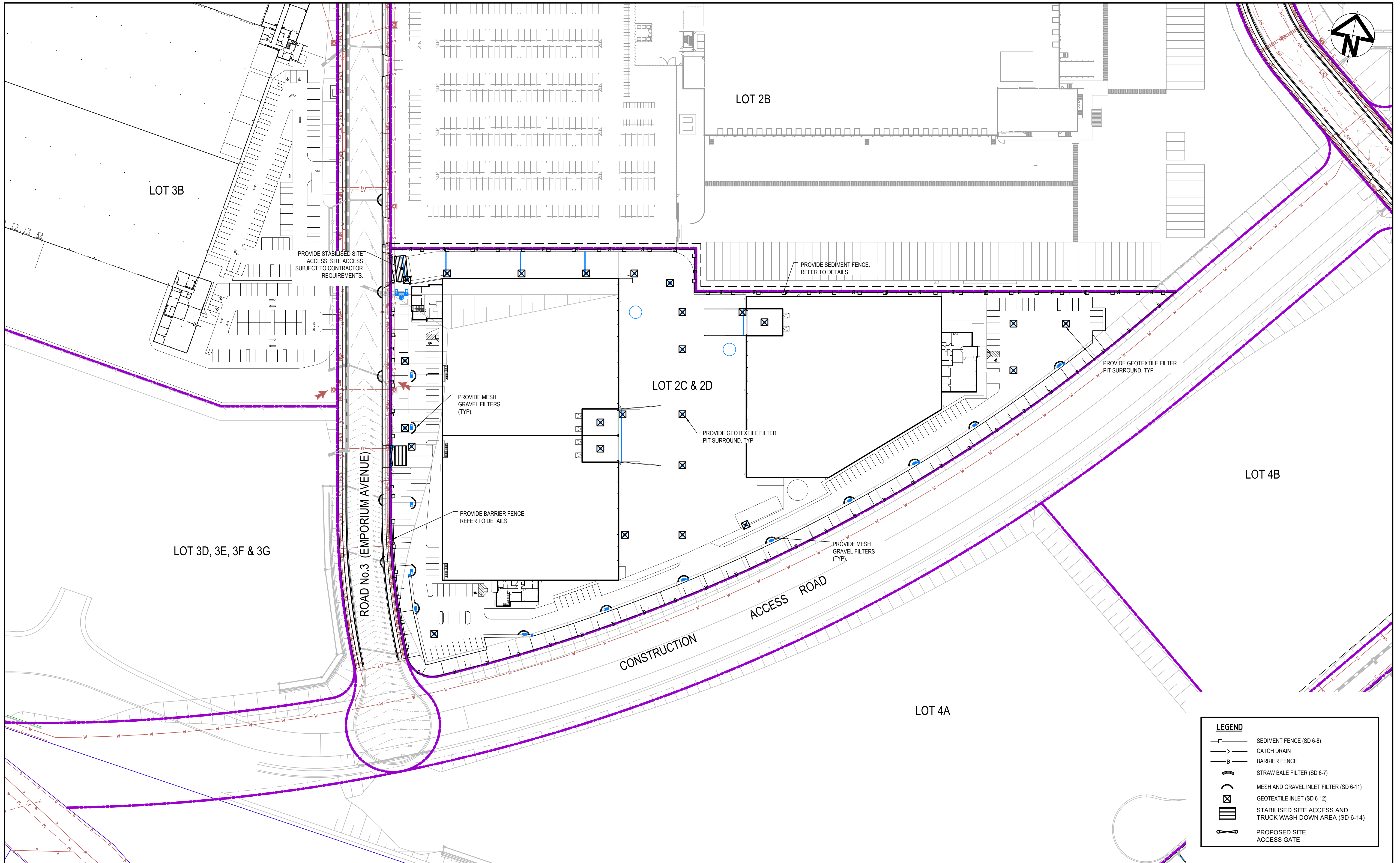
LOT 2A EROSION AND SEDIMENT CONTROL PLAN SHEET 1

Civil Engineers and Project Managers

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

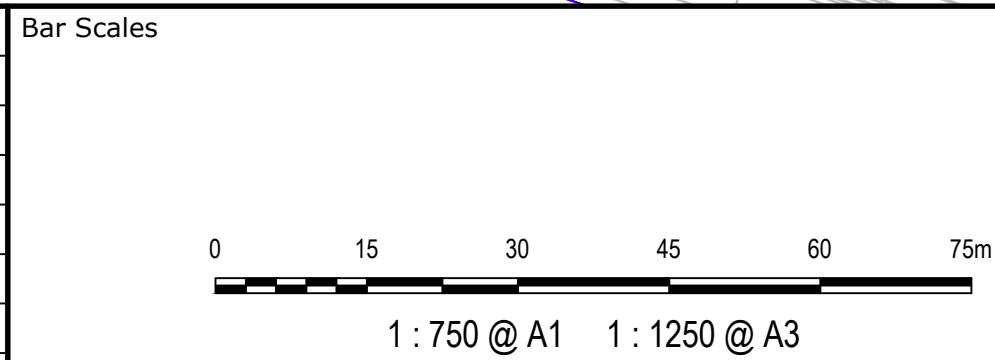
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	15-272-C7221	Issue D





LEGEND	
	SEDIMENT FENCE (SD 6-8)
	CATCH DRAIN
	BARRIER FENCE
	STRAW BALE FILTER (SD 6-7)
	MESH AND GRAVEL INLET FILTER (SD 6-11)
	GEOTEXTILE INLET (SD 6-12)
	STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
	PROPOSED SITE ACCESS GATE

Issue	Description	Date
C	ISSUED FOR APPROVAL	04-11-21
B	ISSUED FOR APPROVAL	18-10-21
A	ISSUED FOR CLIENT REVIEW	14-10-21
P1	ISSUED FOR DRAFT	03-11-20



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Scales	1 : 750	Drawn	JC
		Designed	JC
		Checked	DS
Grid	MGA	Approved	AM
Height Datum	AHD		

Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	LOT 2C/2D EROSION AND SEDIMENT CONTROL PLAN SHEET 2

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		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	15-272-C7222	Issue C





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