

20/07/2020

Goodman Property Pty Ltd
Level 17, 60 Castlereagh St
SYDNEY NSW 2000

Your Ref:

Our Ref: L018-01-15-272 MOD5
Civil.docx

Direct phone: (02) 9230 7169

Attention:

Stephanie Partridge

Dear Stephanie,

OAKDALE WEST ESTATE - SSDA 7348 - MOD 5 Submission Civil Changes

This letter addresses the primary changes in the design at Oakdale West Estate for the Masterplan and the Precinct 1 on-lot design for the Modification No. 5 Application to SSDA 7348.

The changes in the civil design are reflected in the list below:

a) SLR Boundaries

Boundaries on the Future Southern Link Road have been widened as per consultation with Council and TfNSW. This is shown on updated masterplan drawings C1003, C1004 and C1005.

b) Precinct 1 Lots Carpark Layout & Driveways

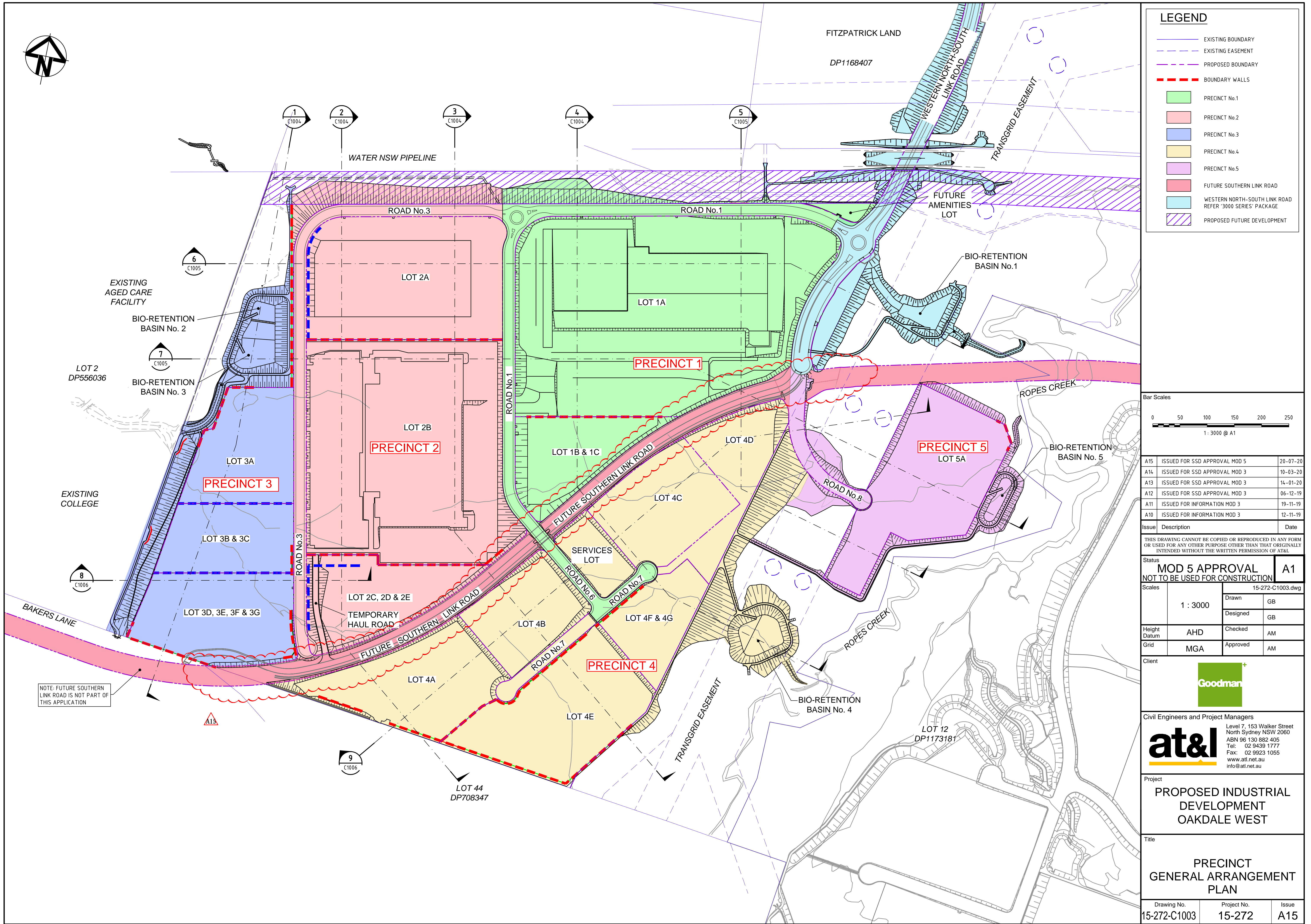
The Lot 1A and 1B layout has been updated to rearrange the carparking and hardstand areas in line with the architectural changes. The stormwater catchments and overland paths remain very similar and have no impact on the modelling for the infrastructure throughout the estate. This is shown on drawings C2000-C2030.

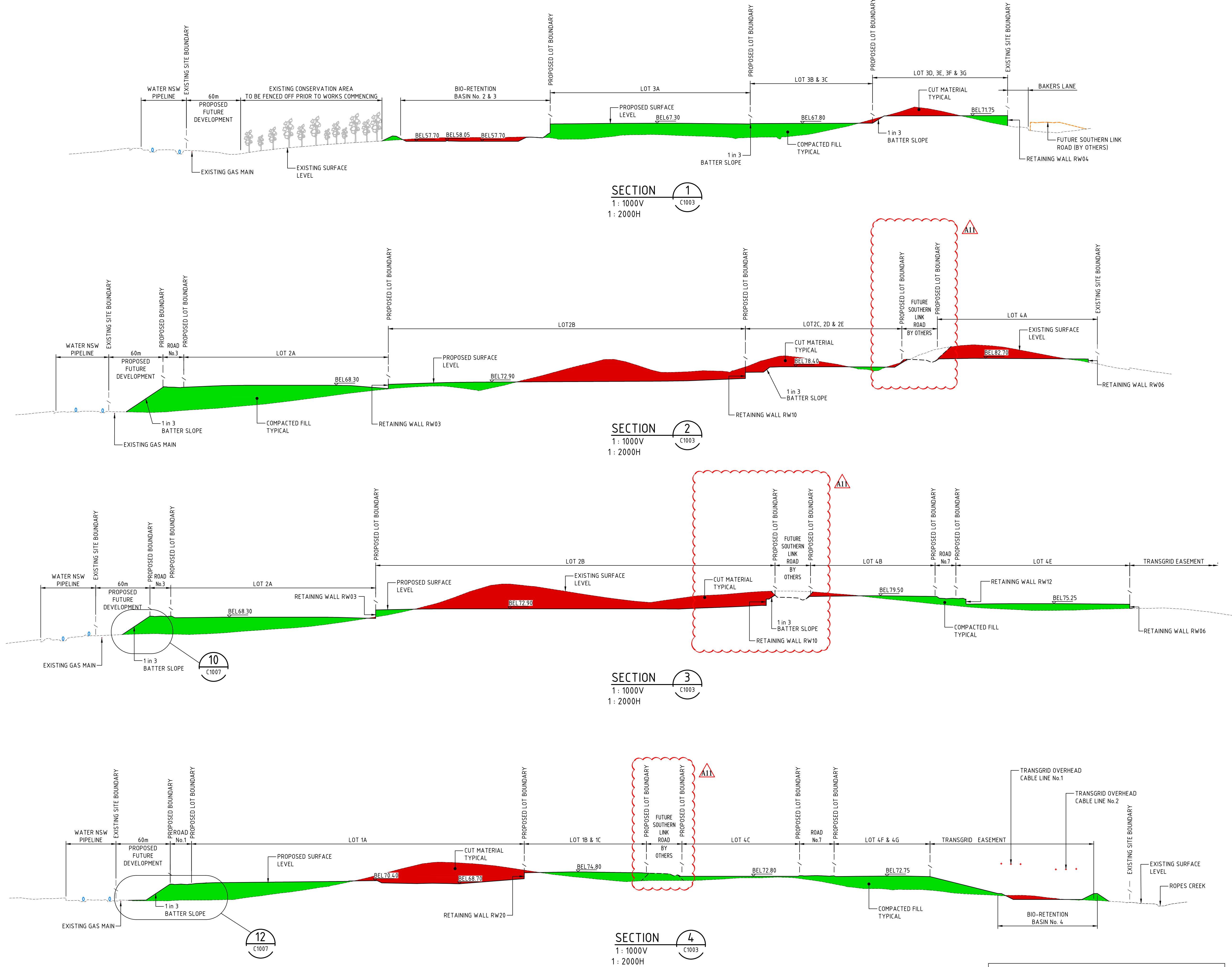
Should you have any questions about the updated MOD 5 proposal, please don't hesitate to contact the undersigned.

Yours sincerely,



Alex Lohrisch
Senior Civil Engineer / Project Manager
0415 398 014





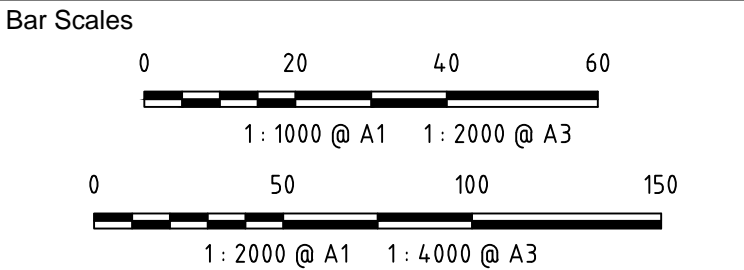
SECTION 1
1: 1000V
1: 2000H

SECTION 2
1: 1000V
1: 2000H

SECTION 3
1: 1000V
1: 2000H

SECTION 4
1: 1000V
1: 2000H

ALL FINISHED LEVELS ARE ±1000mm U.N.O



A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 3	10-03-20
A9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
A7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR SSD APPROVAL MOD 2	21-08-19

Issue Description Date

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Status	MOD 5 APPROVAL	A1
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	Drawn	GB
	Designed	GB
Height Datum	AHD	Checked AM
Grid	MGA	Approved AM

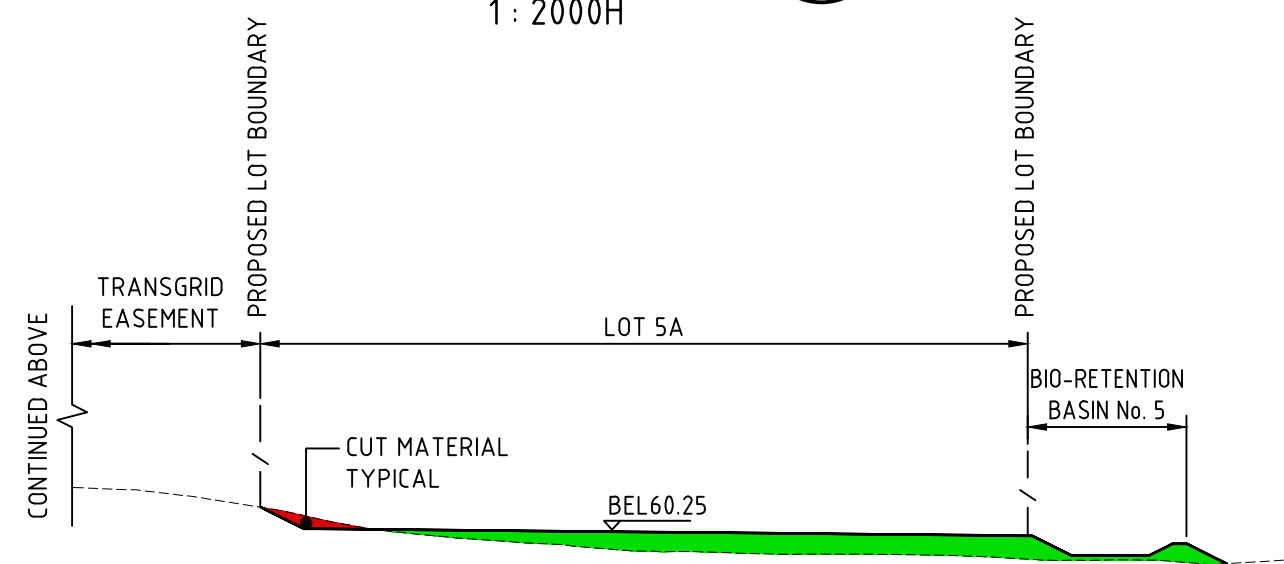
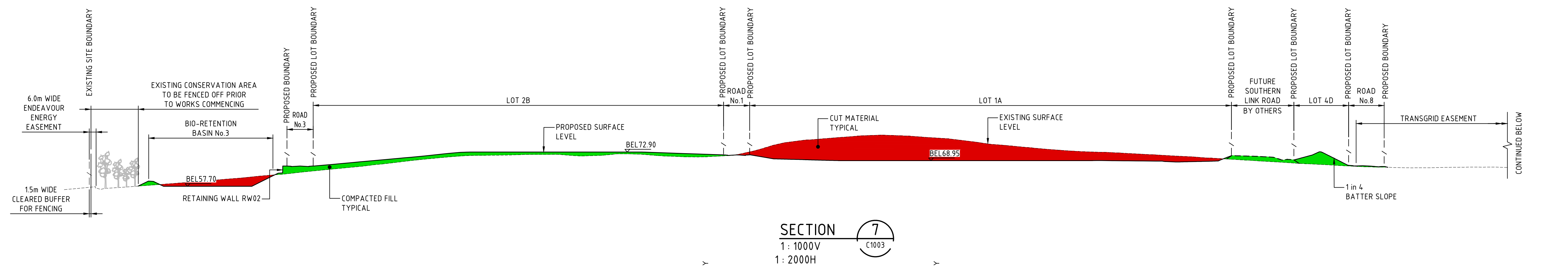
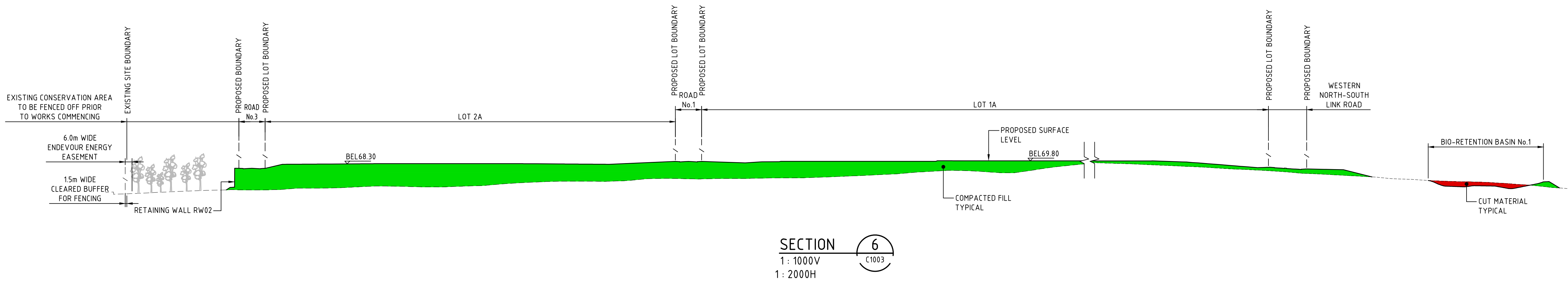
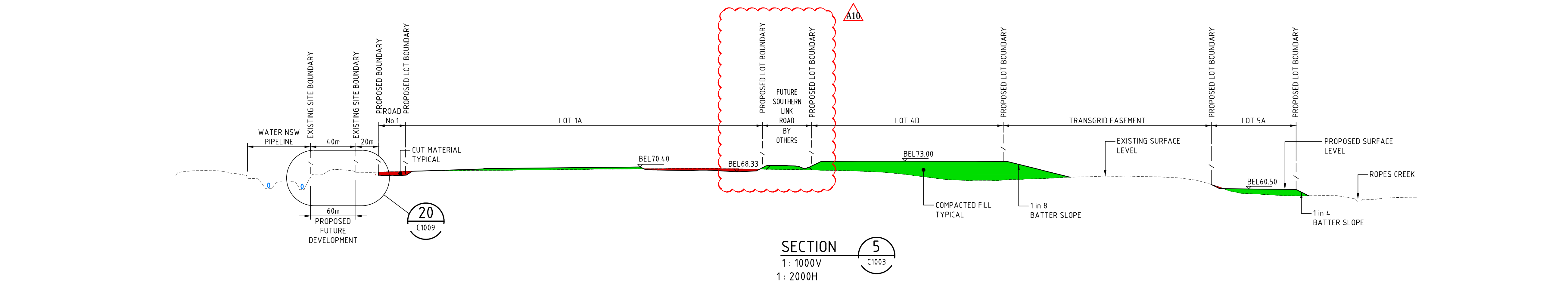


Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

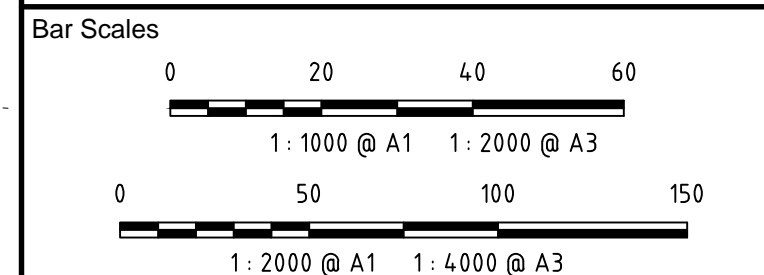
Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title
TYPICAL SITE SECTIONS SHEET 1 OF 6

Drawing No.	Project No.	Issue
15-272-C1004	15-272	A11



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A7	ISSUED FOR INFORMATION MOD 3	12-11-19
A6	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
A5	ISSUED FOR INFORMATION MOD 2	07-06-19

Issue	Description	Date
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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

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title
TYPICAL SITE SECTIONS SHEET 2 OF 6

Drawing No.	Project No.	Issue
15-272-C1005	15-272	A10

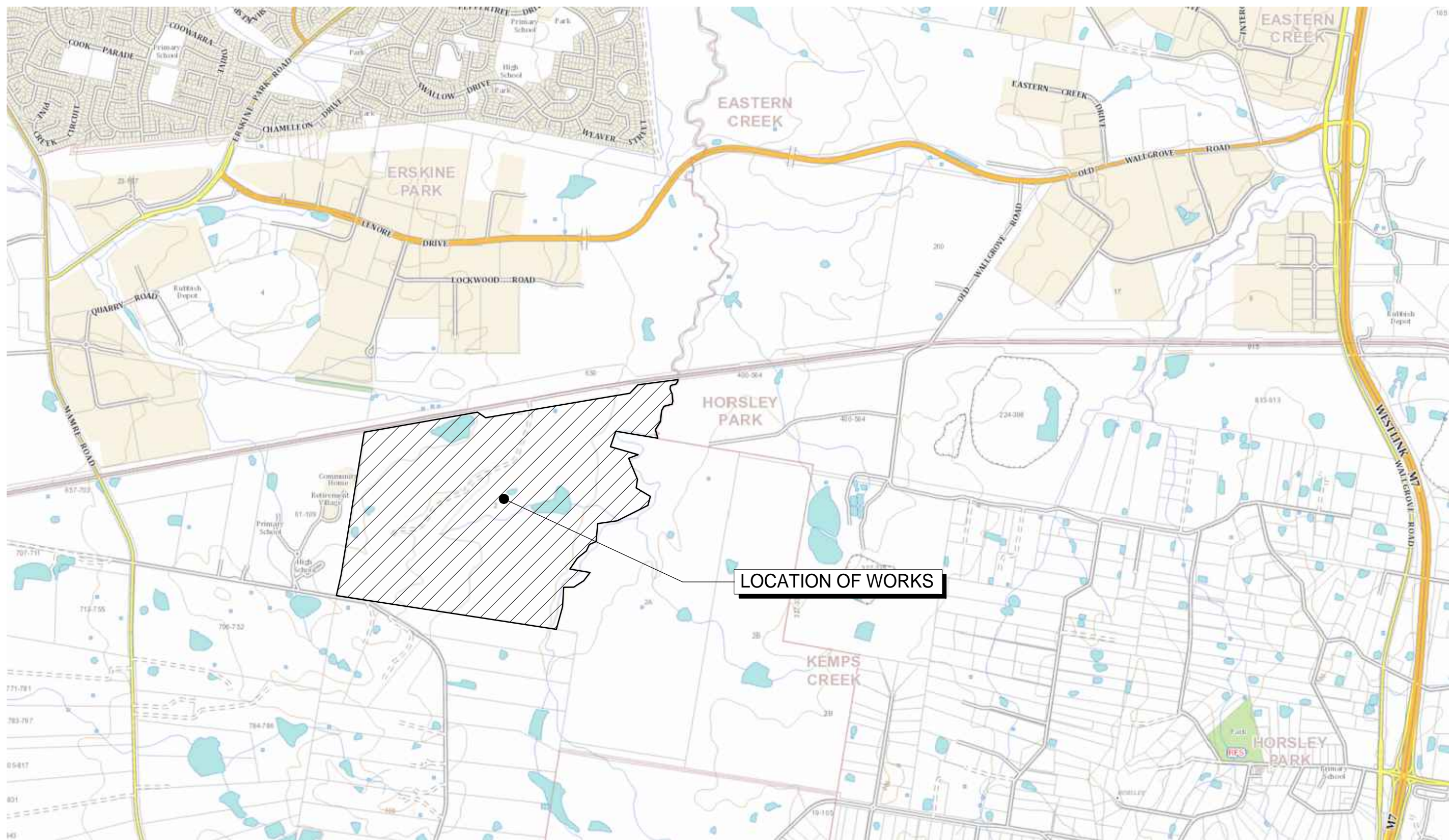
OAKDALE WEST

2000-SERIES STAGE 1 ON-LOT

CIVIL WORKS PACKAGE

STATE SIGNIFICANT DEVELOPMENT

APPLICATION



LOCALITY PLAN

NTS

- NOTE:
- THIS APPLICATION RELATES TO THE FOLLOWING :-
1. BULK EARTHWORKS SITE WIDE
 2. STORMWATER BASINS AND ASSOCIATED STORMWATER INLET AND OUTLET
 3. BOUNDARY AND ROAD/LOT RETAINING WALLS
 4. WESTERN NORTH - SOUTH LINK ROAD
 5. PRECINCT 1 INFRASTRUCTURE WORKS

Bar Scales		
A9	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
A5	ISSUED FOR INFORMATION	23-07-19
A4	ISSUED FOR INFORMATION MOD 2	12-06-19
Issue	Description	Date
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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		
Project		
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST		
Title		
COVER SHEET		
Drawing No.	Project No.	Issue
15-272-C2000	15-272	A9

DRAWING LIST	
DRAWING No.	DRAWING TITLE
15-272-C2000	COVER SHEET
15-272-C2001	DRAWING LIST
15-272-C2002	GENERAL NOTES
15-272-C2003	GENERAL ARRANGEMENT PLAN
15-272-C2010	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1 OF 14
15-272-C2011	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2 OF 14
15-272-C2012	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3 OF 14
15-272-C2013	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4 OF 14
15-272-C2014	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5 OF 14
15-272-C2015	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6 OF 14
15-272-C2016	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 7 OF 14
15-272-C2017	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 8 OF 14
15-272-C2018	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 9 OF 14
15-272-C2019	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 10 OF 14
15-272-C2020	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 11 OF 14
15-272-C2021	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 12 OF 14
15-272-C2022	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 13 OF 14
15-272-C2023	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 14 OF 14
15-272-C2030	PAVEMENT PLAN

Bar Scales

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

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

DRAWING LIST

Drawing No.	Project No.	Issue
15-272-C2001	15-272	A9

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 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m 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 FROM 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.

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. 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.

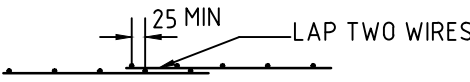
CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.



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

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 _c 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 1579.
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
- 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:



KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa 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.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
(A) AVERAGE RECURRENCE INTERVAL:
100 YEARS MAJOR STORM (OVERLAND FLOW)
120 YEARS MINOR STORM (PIPED NETWORK)
(B) RAINFALL INTENSITIES:
TIME OF CONCENTRATION: 5 MINUTES
100 YEARS= 219 mm/hr
120 YEARS= 167 mm/hr
(C) RUNOFF COEFFICIENTS:
ROOF AREAS: C₁₀₀ ±10
EXTERNAL PAVEMENTS: C₁₀₀ ±10
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.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SLUSH, GROUTING AND DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
4. COMPACT CLAY STABILIZED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILIZED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

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.
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 15 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 AT&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).

BULK EARTHWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES
2. REFER PELL'S 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 PELL'S 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 ±1000mm U.N.O.

Bar Scales

A9	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
A5	ISSUED FOR INFORMATION	23-07-19
A4	ISSUED FOR INFORMATION MOD 2	12-06-19

Issue	Description	Date
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Status	MOD 5 APPROVAL	A1
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	Designed	GB	
Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM

Client

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

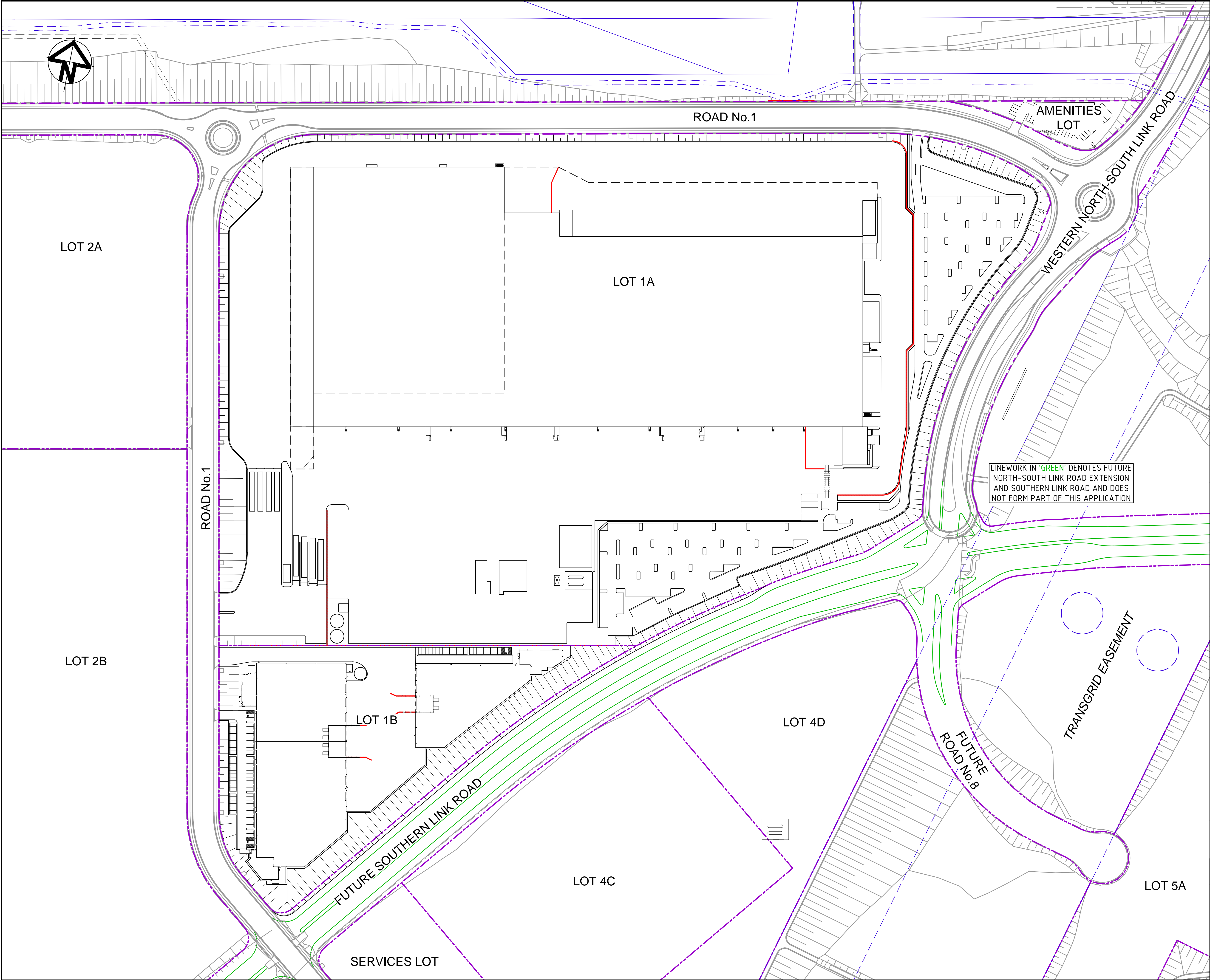
Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

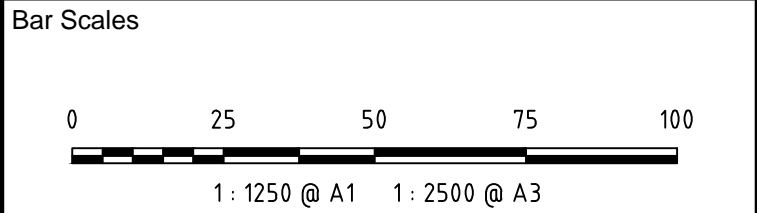
Title

GENERAL NOTES

Drawing No.	Project No.	Issue
15-272-C2002	15-272	A9



LINework IN 'GREEN' DENOTES FUTURE NORTH-SOUTH LINK ROAD EXTENSION AND SOUTHERN LINK ROAD AND DOES NOT FORM PART OF THIS APPLICATION



A12	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A11	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A10	ISSUED FOR SSD APPROVAL MOD 2	29-10-19
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
Issue	Description	Date

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Grid	LOCAL	Approved	AM

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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

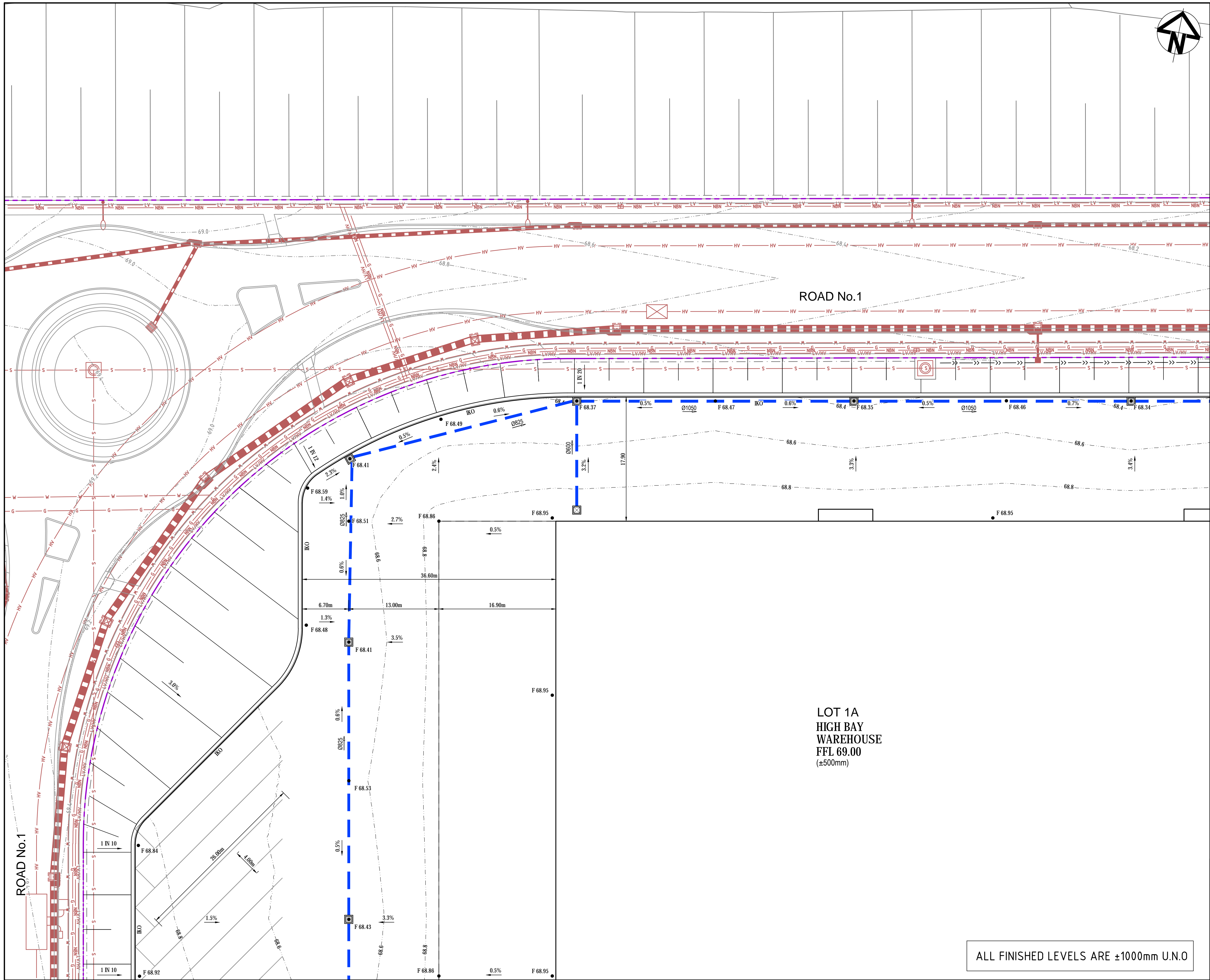
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PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST

Title

GENERAL ARRANGEMENT
PLAN

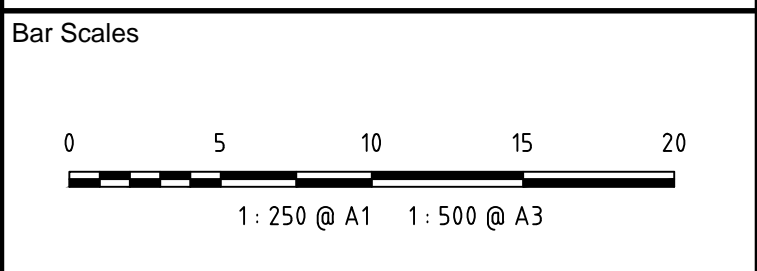
Drawing No.	Project No.	Issue
15-272-C2003	15-272	A12



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G
- KO
- IKO
- DD
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN



A10	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
A5	ISSUED FOR INFORMATION	23-07-19

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Status	MOD 5 APPROVAL	A1
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	Designed	GB

Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM



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

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

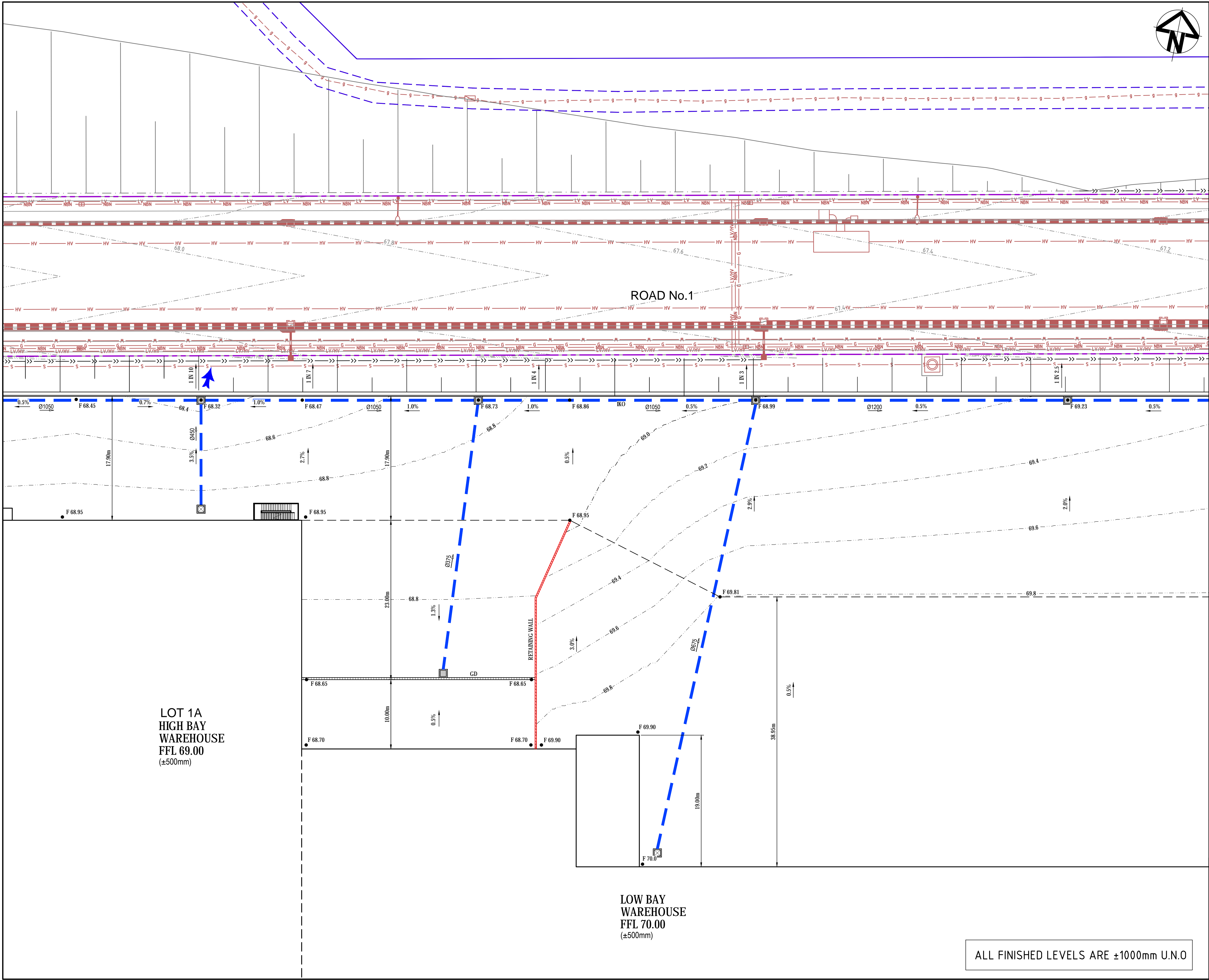
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SITEWORKS AND STORMWATER DRAINAGE PLAN

SHEET 1 OF 14

Drawing No.	Project No.	Issue
15-272-C2010	15-272	A10

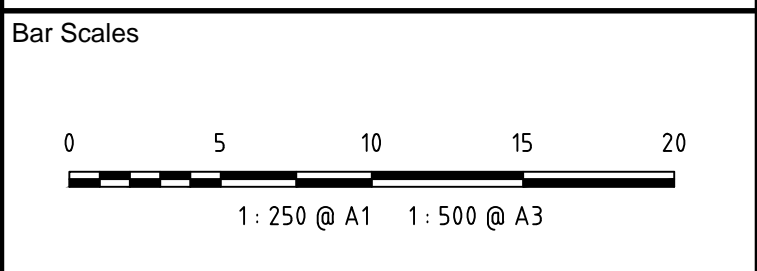
ALL FINISHED LEVELS ARE $\pm 1000\text{mm}$ U.N.O



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- 65.0
- K&G
- KO
- IKO
- DD
- F74.00
- Ø375
- GD
- GD
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- S
- W
- NBN
- LV/HV
- G



A10	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
A5	ISSUED FOR INFORMATION	23-07-19

Issue Description Date

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Drawn	GB	
Designed	GB	
Height Datum	AHD	Checked AM
Grid	LOCAL	Approved AM



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

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

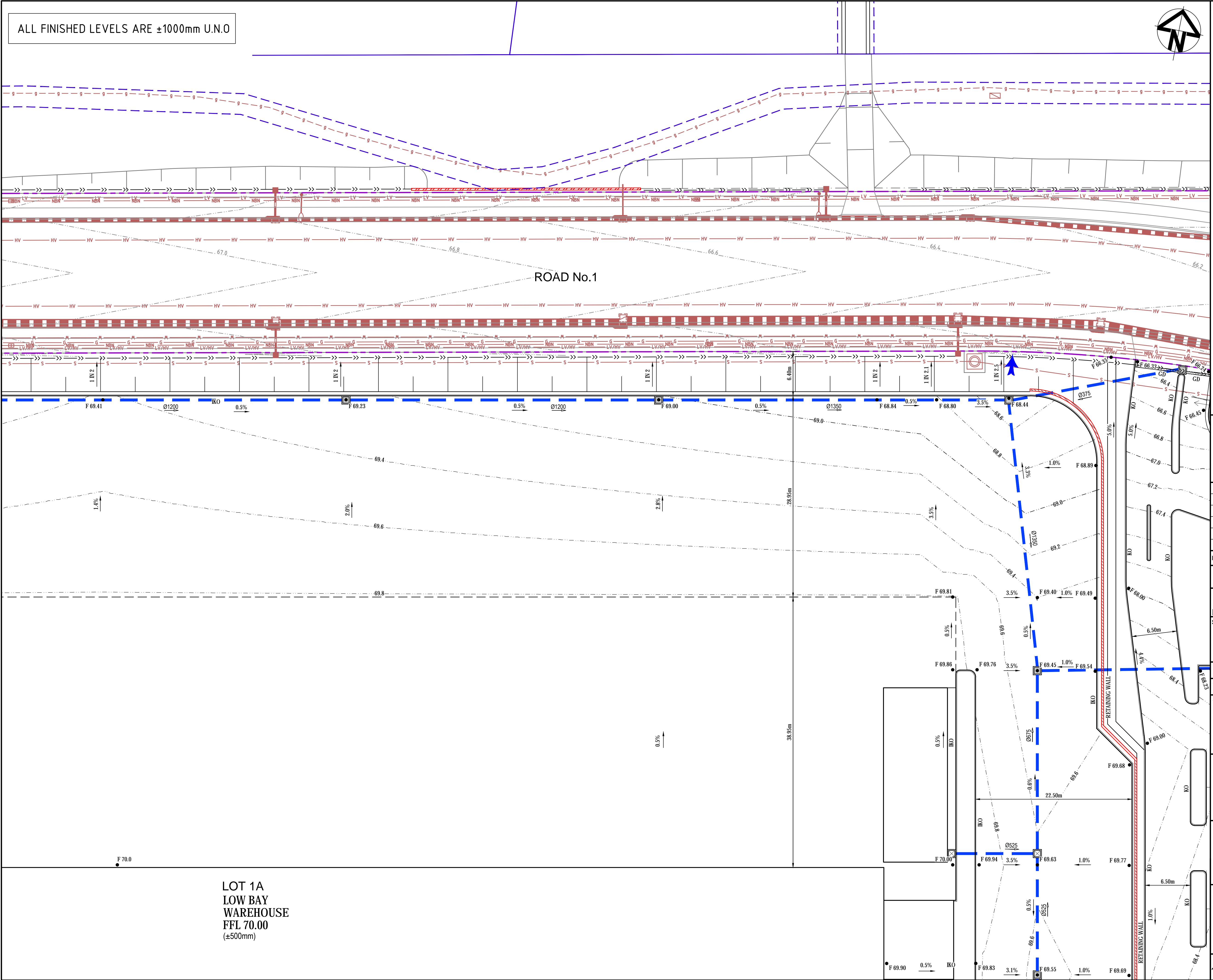
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SITWORKS AND STORMWATER DRAINAGE PLAN

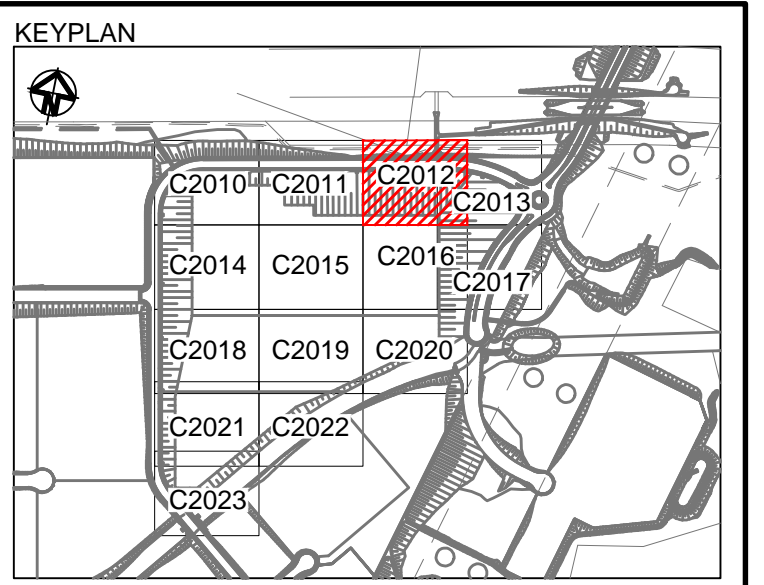
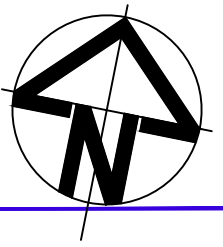
SHEET 2 OF 14

Drawing No.	Project No.	Issue
15-272-C2011	15-272	A10

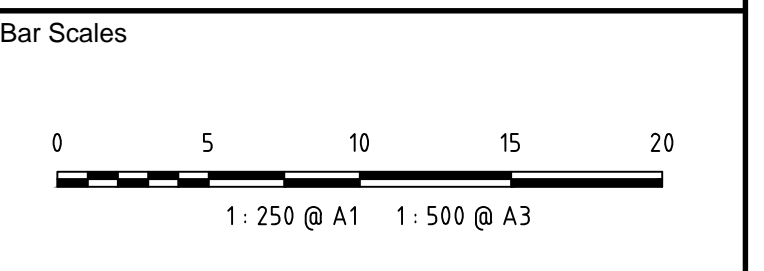
ALL FINISHED LEVELS ARE ±1000mm U.N.O



ALL FINISHED LEVELS ARE ±1000mm U.N.O



LEGEND	
	EXISTING BOUNDARY
	PROPOSED BOUNDARY
	PROPOSED CONTOUR
	K&G
	KO
	IKO
	DD
	DISH DRAIN
	FINISHED SURFACE LEVEL
	STORMWATER PIPE WITH SIZE
	STORMWATER OVERLAND FLOWPATH
	STORMWATER GRATED DRAIN
	KERB INLET PIT
	SURFACE INLET PIT
	JUNCTION PIT
	GUARDRAIL SAFETY BARRIER
	EXISTING STORMWATER PIPE
	EXISTING SEWER MAIN
	EXISTING WATER MAIN
	EXISTING NBN
	EXISTING ELECTRICAL
	EXISTING GAS MAIN



A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
Issue	Description	Date

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Grid	LOCAL	Approved	AM

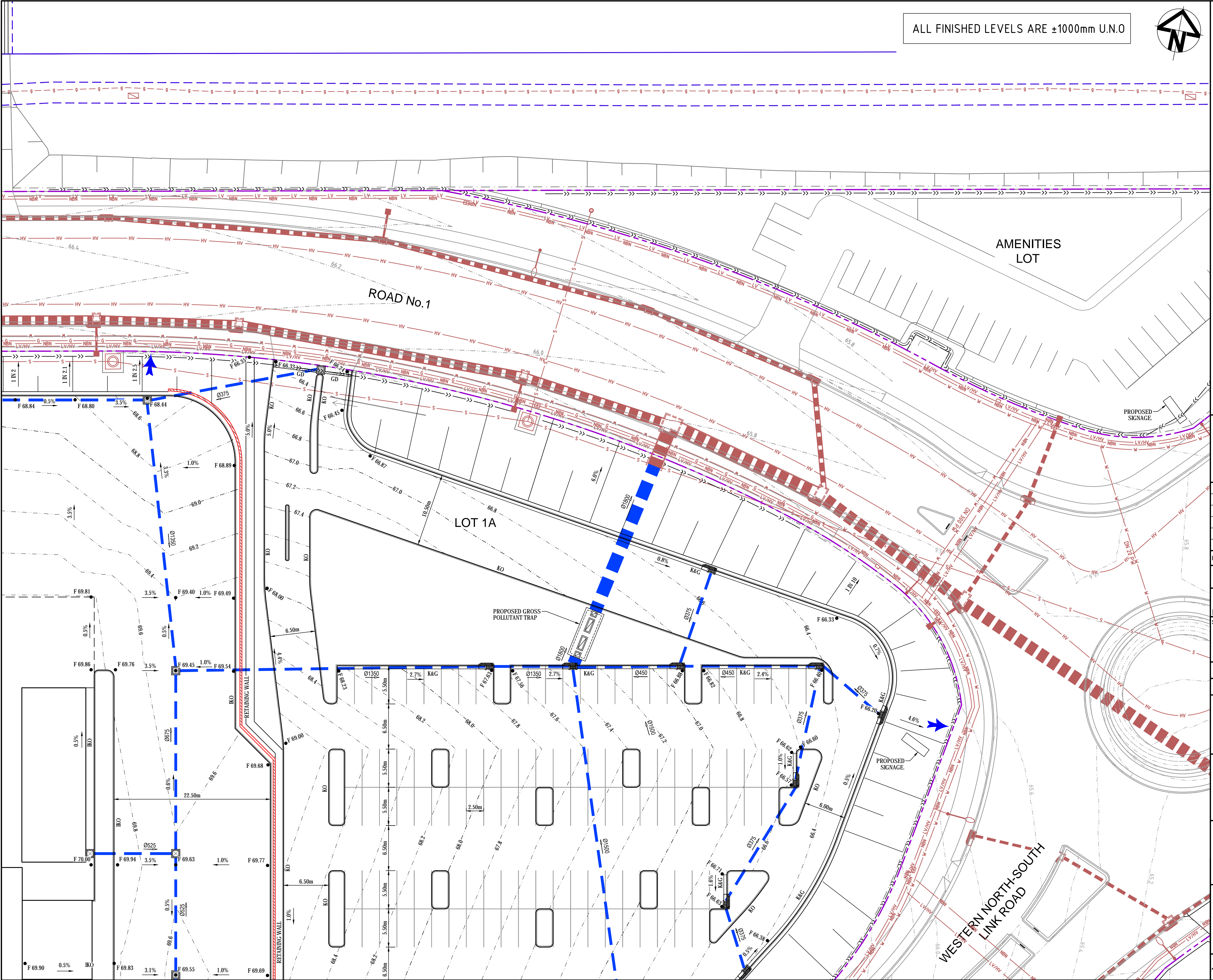


Civil Engineers and Project Managers
at&i
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

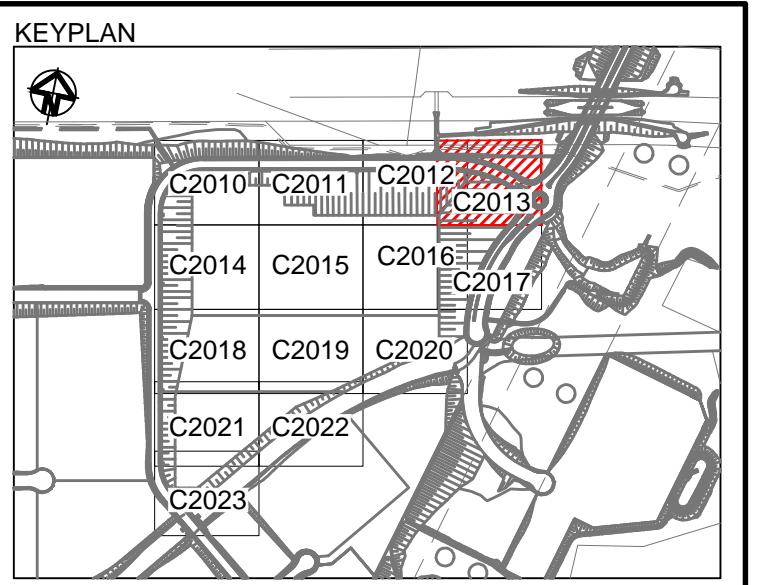
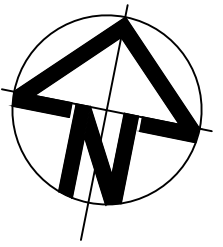
Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title
SITWORKS AND STORMWATER DRAINAGE PLAN
SHEET 3 OF 14

Drawing No.	Project No.	Issue
15-272-C2012	15-272	A11

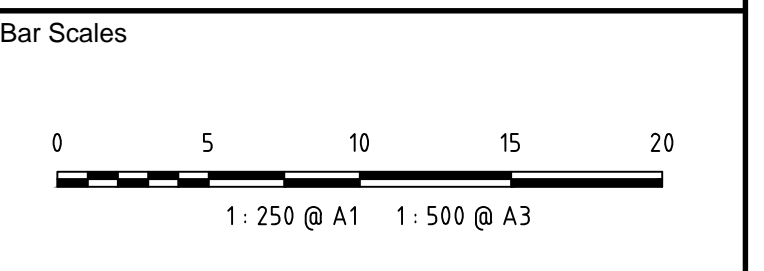


ALL FINISHED LEVELS ARE ±1000mm U.N.O



LEGEND

	EXISTING BOUNDARY
	PROPOSED BOUNDARY
	PROPOSED CONTOUR
	K&G
	KO
	IKO
	DD
	DISH DRAIN
	FINISHED SURFACE LEVEL
	STORMWATER PIPE WITH SIZE
	STORMWATER OVERLAND FLOWPATH
	STORMWATER GRATED DRAIN
	KERB INLET PIT
	SURFACE INLET PIT
	JUNCTION PIT
	GUARDRAIL SAFETY BARRIER
	EXISTING STORMWATER PIPE
	EXISTING SEWER MAIN
	EXISTING WATER MAIN
	EXISTING NBN
	EXISTING ELECTRICAL
	EXISTING GAS MAIN



A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date
A11	MOD 5 APPROVAL	A1

Status	MOD 5 APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

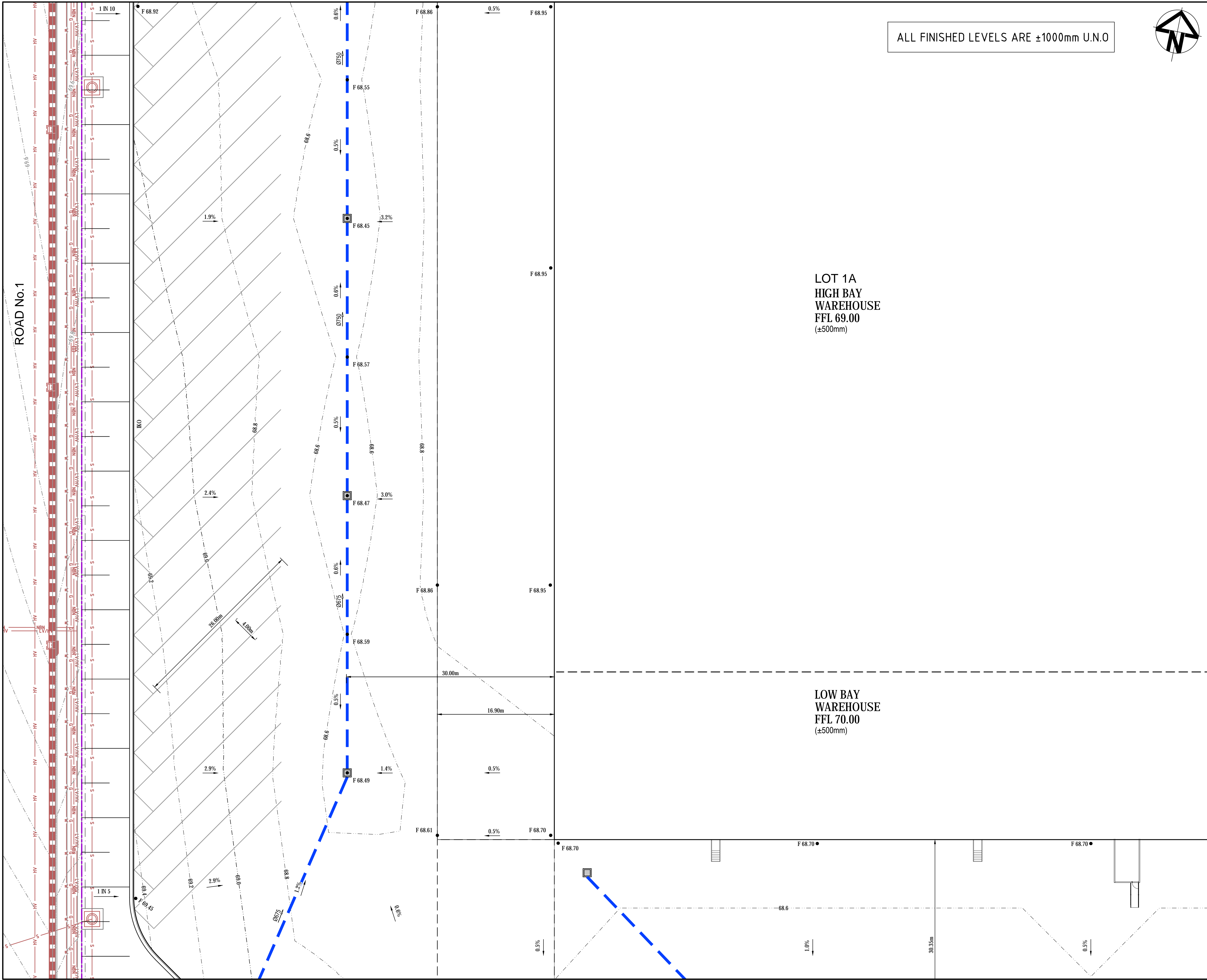
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Grid	LOCAL	Approved AM

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Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
Title	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 4 OF 14

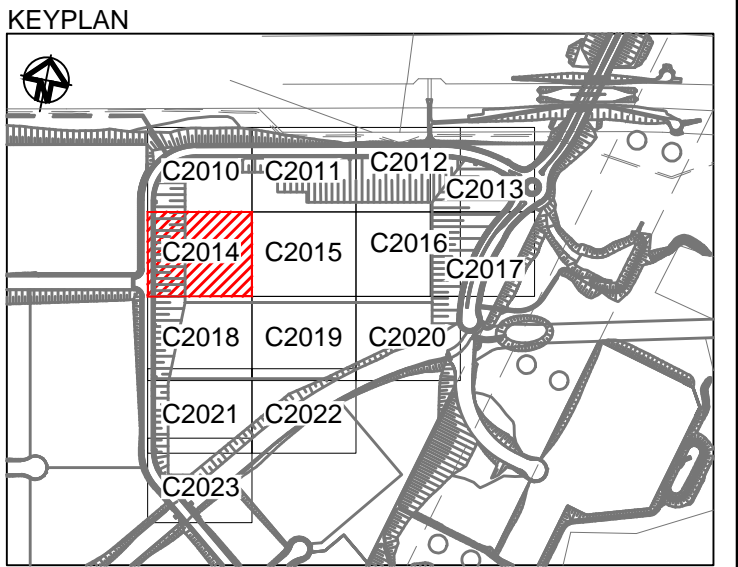
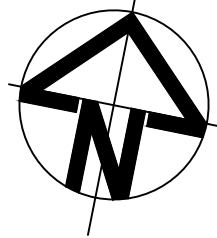
Drawing No.	Project No.	Issue
15-272-C2013	15-272	A11



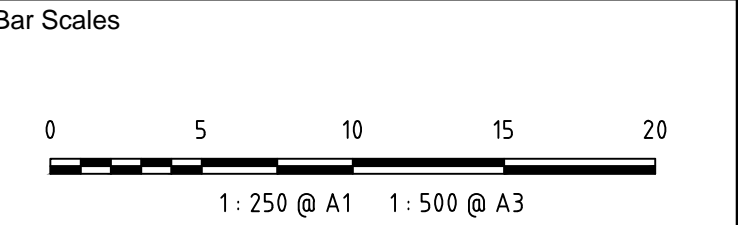
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LOT 1A
HIGH BAY
WAREHOUSE
FFL 69.00
($\pm 500\text{mm}$)

LOW BAY
WAREHOUSE
FFL 70.00
($\pm 500\text{mm}$)



LEGEND	
	EXISTING BOUNDARY
	PROPOSED BOUNDARY
	PROPOSED CONTOUR
	K&G
	KO
	IKO
	DD
	DISH DRAIN
	FINISHED SURFACE LEVEL
	STORMWATER PIPE WITH SIZE
	STORMWATER OVERLAND FLOWPATH
	STORMWATER GRATED DRAIN
	KERB INLET PIT
	SURFACE INLET PIT
	JUNCTION PIT
	GUARDRAIL SAFETY BARRIER
	EXISTING STORMWATER PIPE
	EXISTING SEWER MAIN
	EXISTING WATER MAIN
	EXISTING NBN
	EXISTING ELECTRICAL
	EXISTING GAS MAIN



A10	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
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A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
A5	ISSUED FOR INFORMATION	23-07-19

Issue	Description	Date
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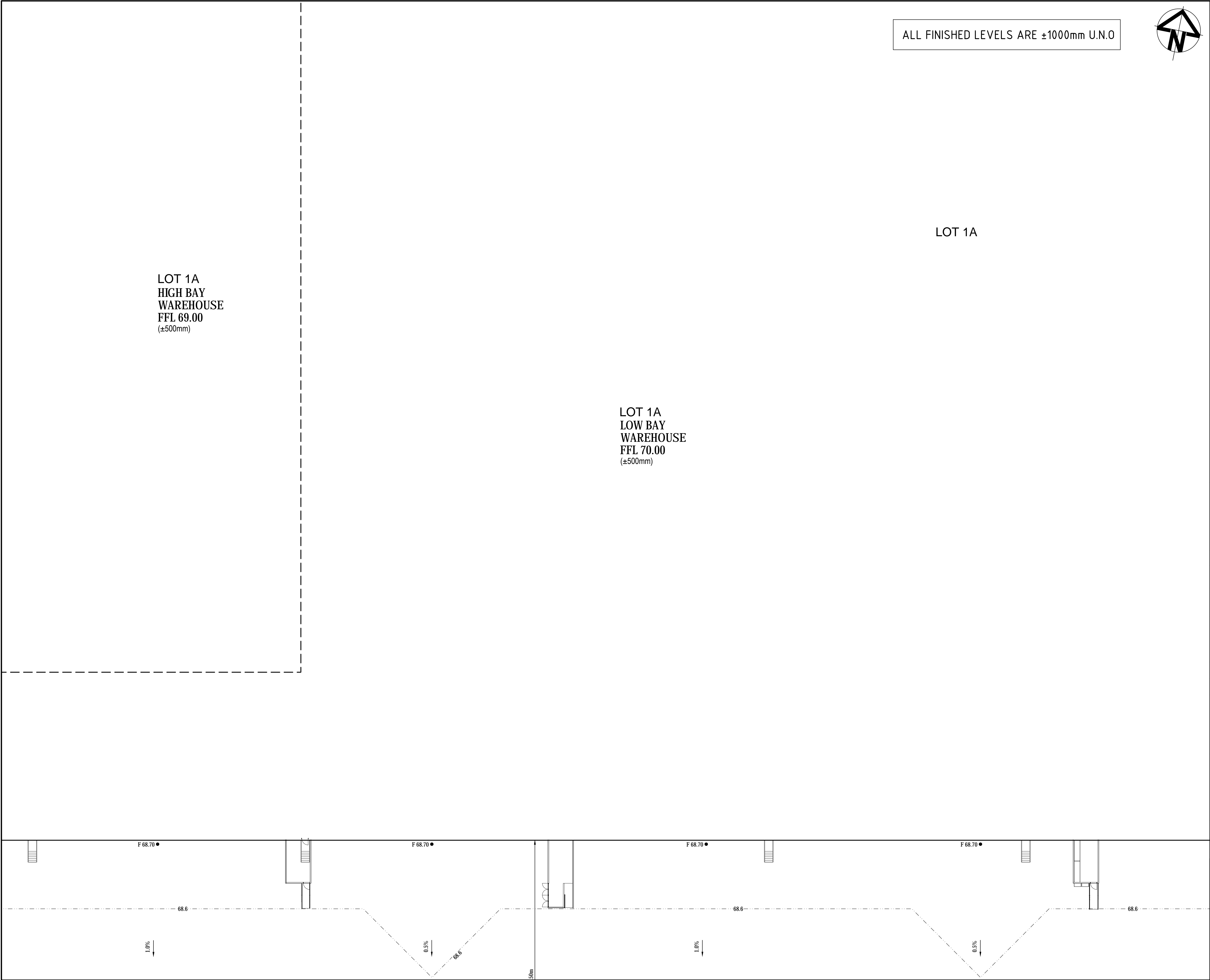


Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
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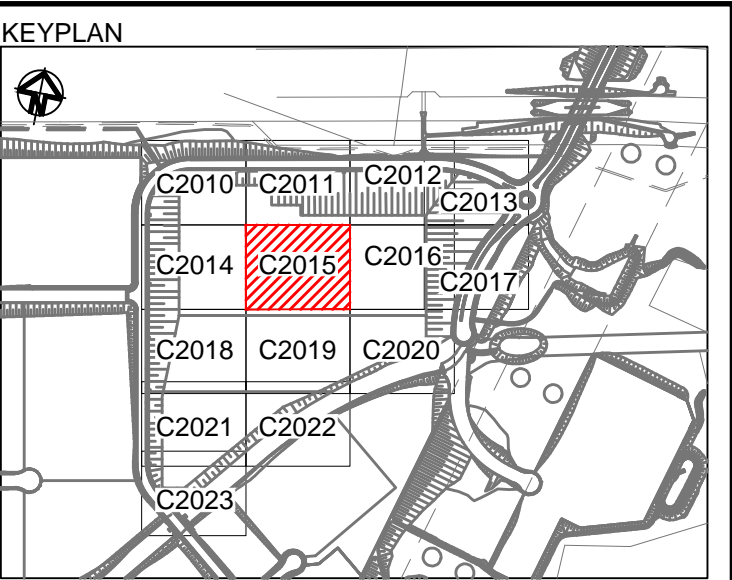
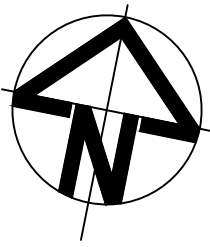
Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title
**SITEWORKS AND STORMWATER DRAINAGE PLAN
SHEET 5 OF 14**

Drawing No.	Project No.	Issue
15-272-C2014	15-272	A10

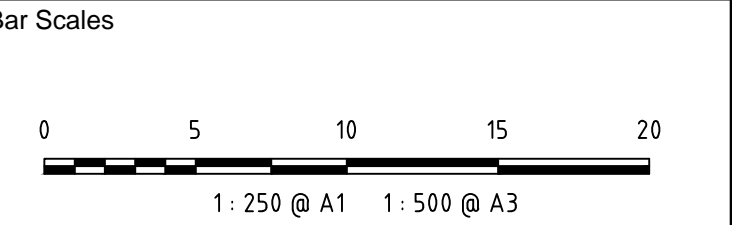


ALL FINISHED LEVELS ARE ±1000mm U.N.O



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G
- KO
- IKO
- DD
- DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN



A10	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
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A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19
A5	ISSUED FOR INFORMATION	23-07-19

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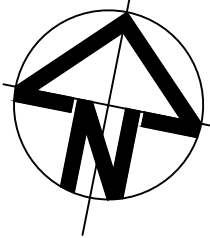


Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST
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Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6 OF 14
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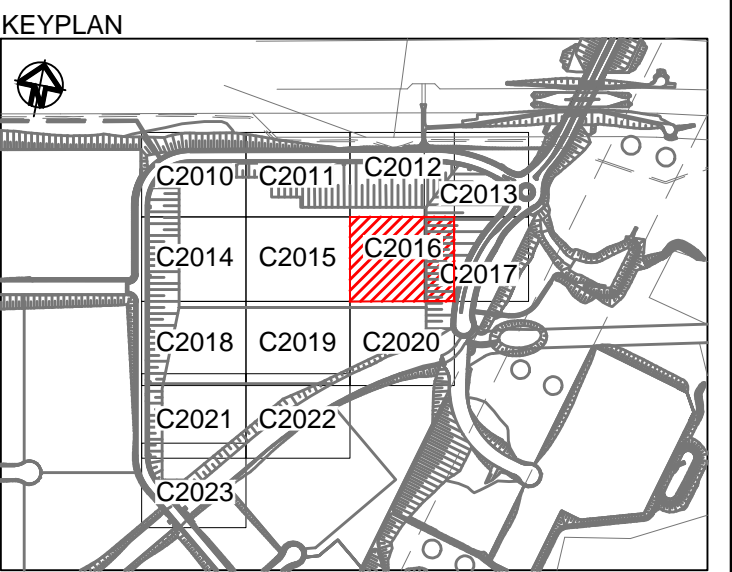
Drawing No.	Project No.	Issue
15-272-C2015	15-272	A10



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

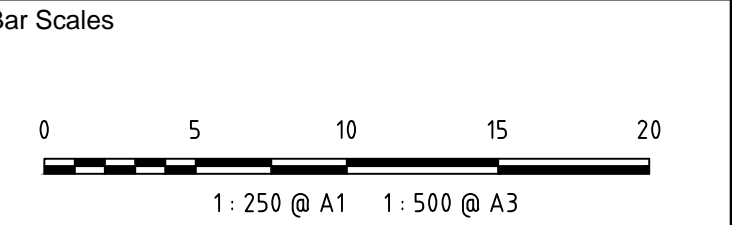
LOT 1A
LOW BAY
WAREHOUSE
FFL 70.00
($\pm 500\text{mm}$)

OFFICE
FFL 70.00
($\pm 500\text{mm}$)



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IKO INTEGRAL KERB ONLY
- DD DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN



A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue Description Date

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Status	MOD 5 APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

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	Designed	GB	
Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM

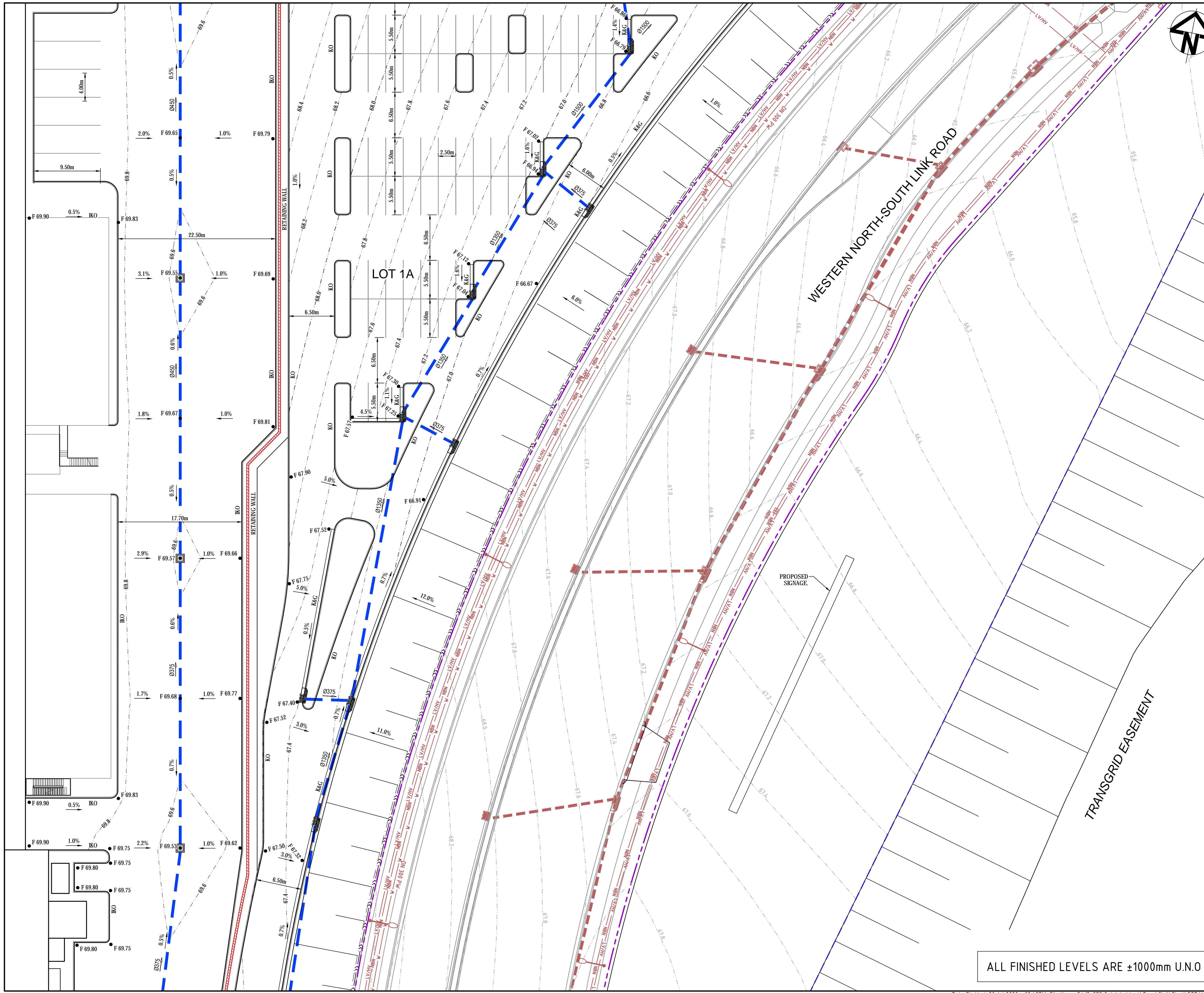


Civil Engineers and Project Managers
at&i
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title
**SITeworks AND STORMwater DRAINAGE PLAN
SHEET 7 OF 14**

Drawing No.	Project No.	Issue
15-272-C2016	15-272	A11



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IKO INTEGRAL KERB ONLY
- DD DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date
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Status	MOD 5 APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scales	15-272-C2017.dwg	
1 : 250	Drawn	GB
	Designed	GB
Height Datum	AHD	Checked AM
Grid	LOCAL	Approved AM

Client

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

Project

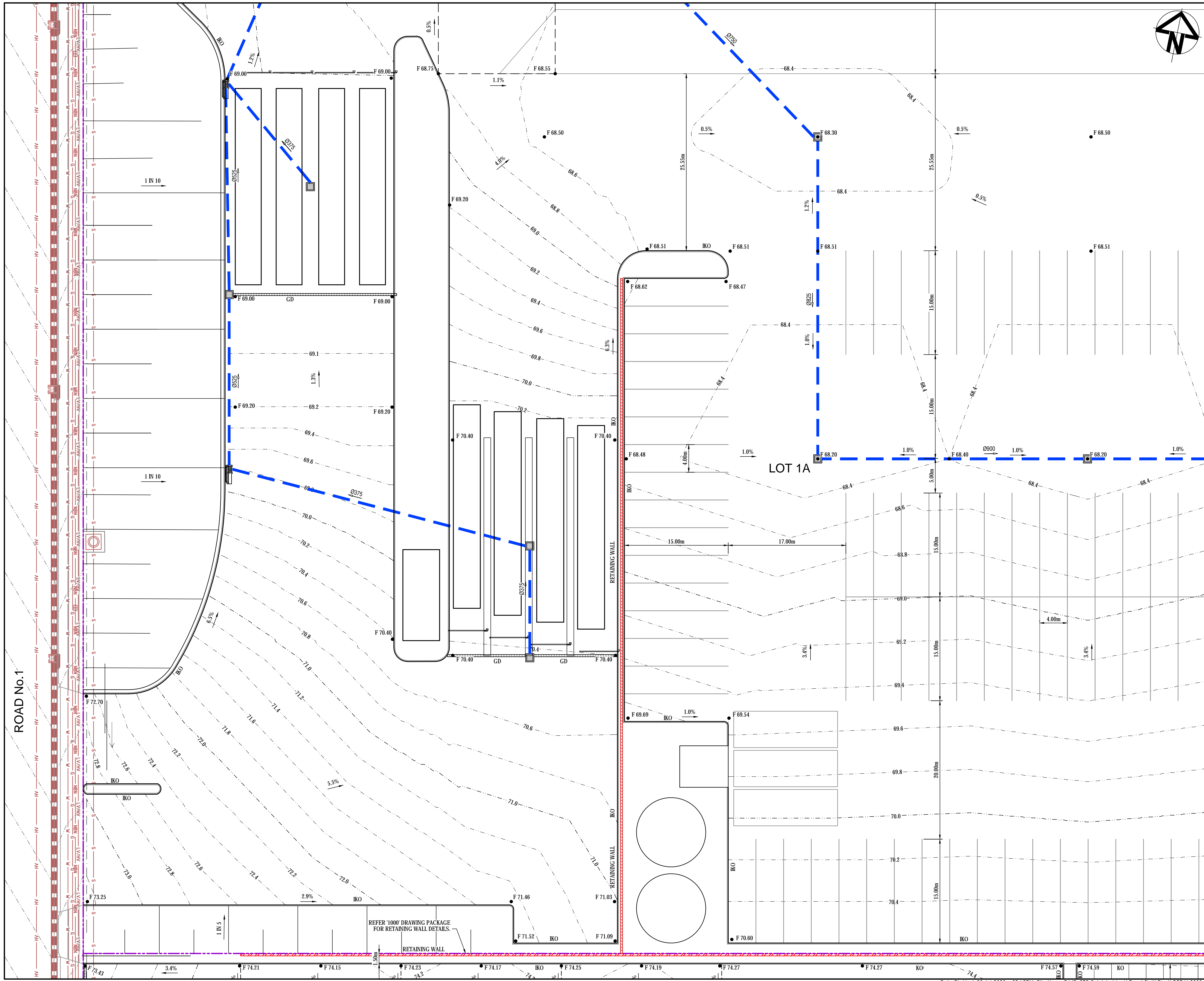
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 8 OF 14

Drawing No.	Project No.	Issue
15-272-C2017	15-272	A11

ALL FINISHED LEVELS ARE ±1000mm U.N.O



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IKO INTEGRAL KERB ONLY
- DD DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1: 250 @ A1 1: 500 @ A3

A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date

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Status	MOD 5 APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			

Scales	15-272-C2018.dwg	
1 : 250	Drawn	GB
	Designed	GB

Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM

Client

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

Project

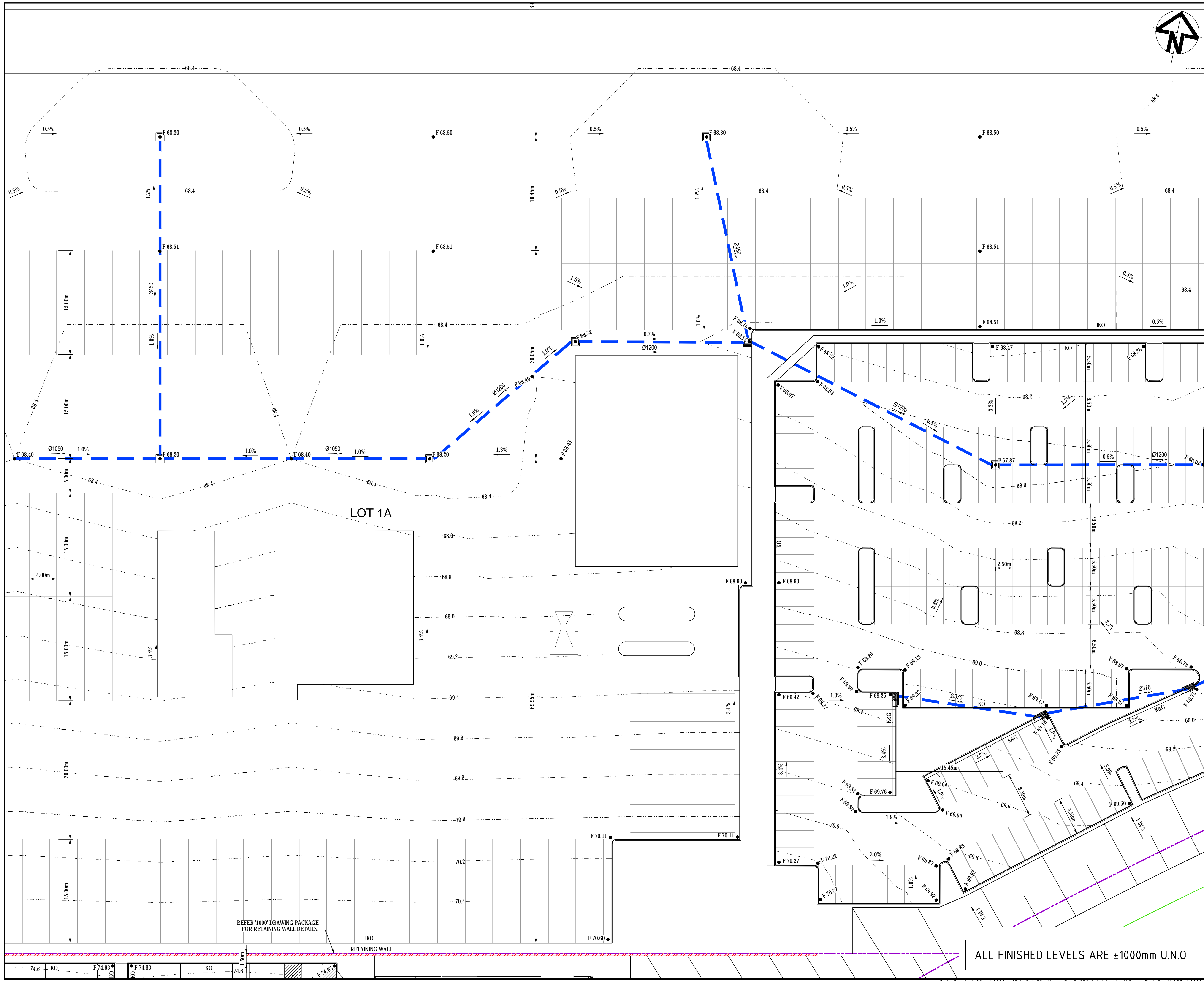
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN

SHEET 9 OF 14

Drawing No.	Project No.	Issue
15-272-C2018	15-272	A11



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IKO INTEGRAL KERB ONLY
- DD DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date

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Status	MOD 5 APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			
Scales	15-272-C2019.dwg		
	1 : 250	Drawn	GB
		Designed	GB
Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM

Client

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

Project

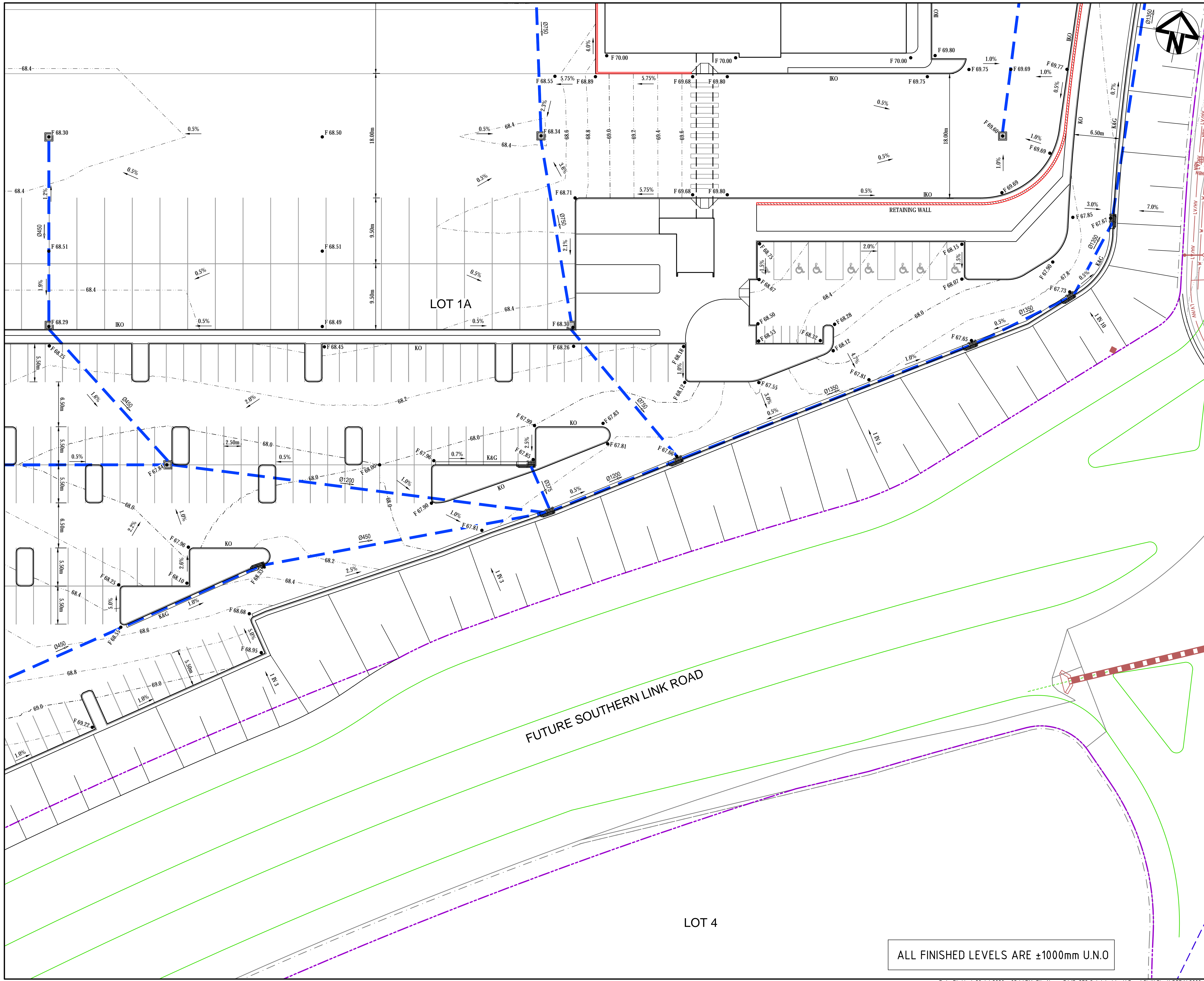
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN

SHEET 10 OF 14

Drawing No.	Project No.	Issue
15-272-C2019	15-272	A11



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- 65.0
- K&G
- KO
- IKO
- DD
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1: 250 @ A1 1: 500 @ A3

A12	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A11	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A10	ISSUED FOR SSD APPROVAL MOD 2	29-10-19
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19

Issue	Description	Date

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Status

MOD 5 APPROVAL

NOT TO BE USED FOR CONSTRUCTION

A1

Scales	15-272-C2020.dwg	
1 : 250	Drawn	GB
	Designed	GB

Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM

Client

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

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

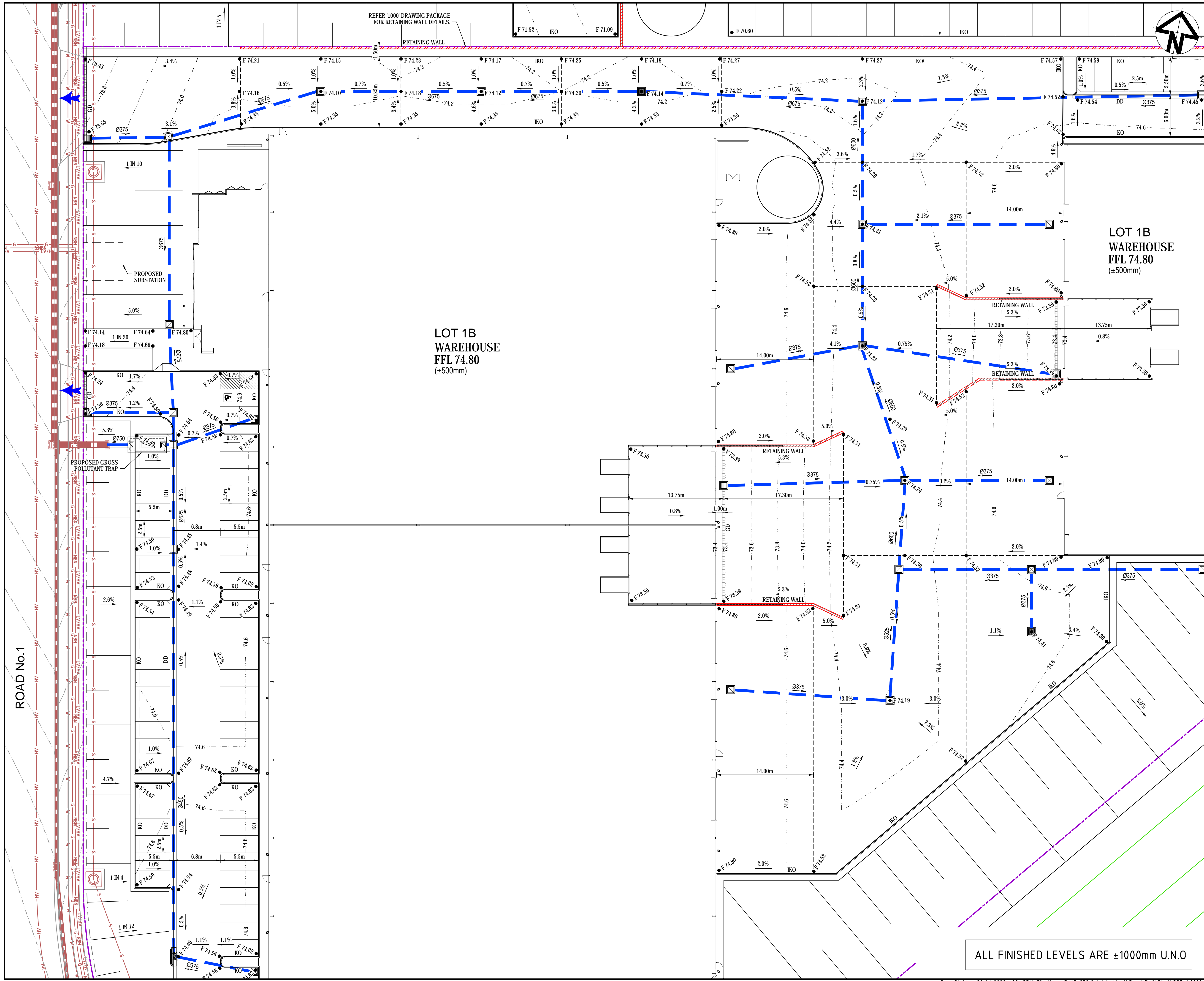
Title

SITEWORKS AND STORMWATER DRAINAGE PLAN

SHEET 11 OF 14

Drawing No.	Project No.	Issue
15-272-C2020	15-272	A12

ALL FINISHED LEVELS ARE ±1000mm U.N.O



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IKO INTEGRAL KERB ONLY
- DD DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1: 250 @ A1 1: 500 @ A3

A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A7	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date
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Status	MOD 5 APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			
Scales	15-272-C2021.dwg		
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	Designed	GB	
Height Datum	AHD	Checked	AM
Grid	LOCAL	Approved	AM

Client

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

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

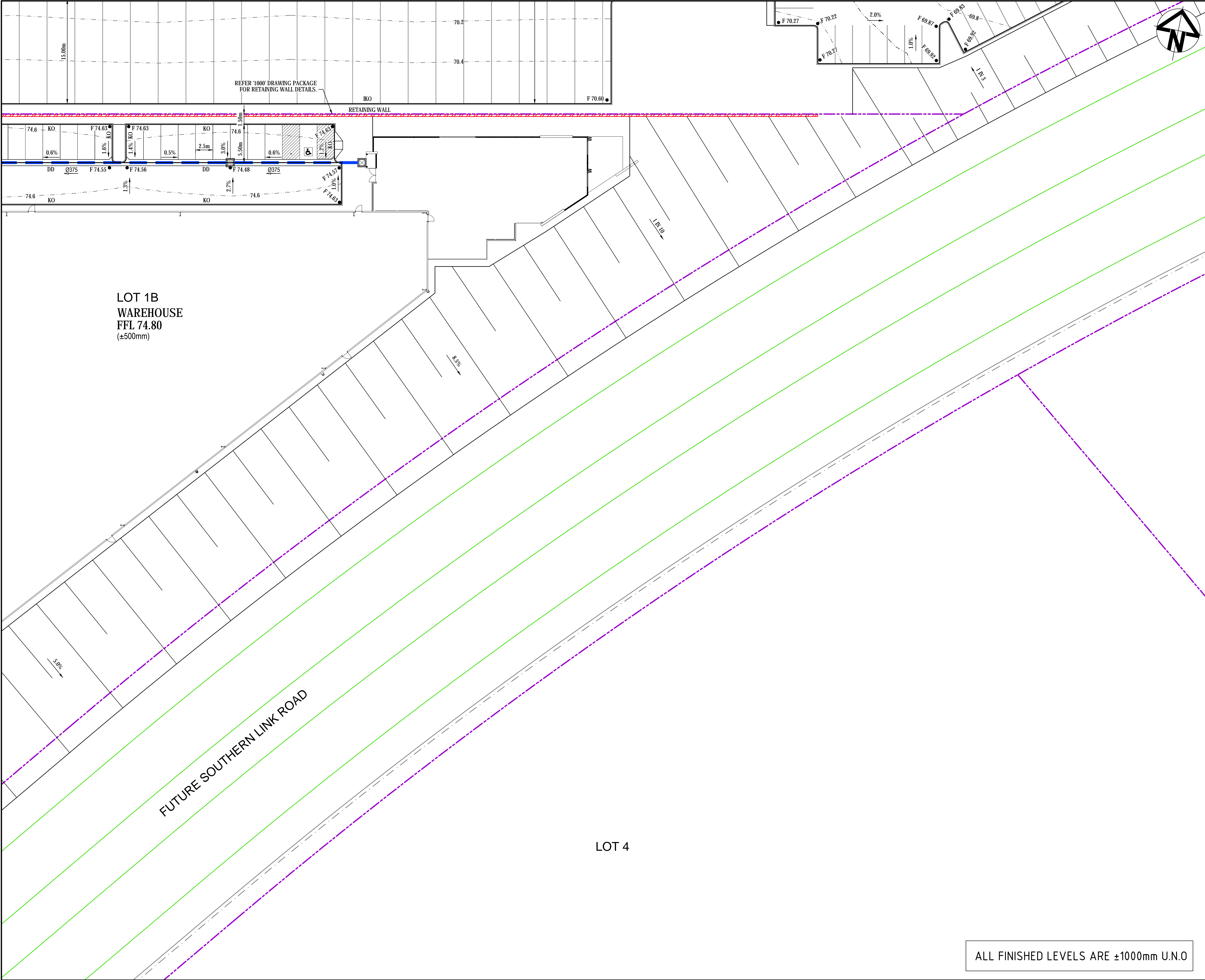
Title

SITWORKS AND STORMWATER DRAINAGE PLAN

SHEET 12 OF 14

Drawing No.	Project No.	Issue
15-272-C2021	15-272	A11

ALL FINISHED LEVELS ARE ±1000mm U.N.O



KEYPLAN

LEGEND

—

EXISTING BOUNDARY

- - -

PROPOSED BOUNDARY

65.0

PROPOSED CONTOUR

— K&G

KERB AND GUTTER

— KO

KERB ONLY

— IKO

INTEGRAL KERB ONLY

— DD

DISH DRAIN

• F74.00

FINISHED SURFACE LEVEL

— Ø375

STORMWATER PIPE WITH SIZE

→

STORMWATER OVERLAND FLOWPATH

— GD

STORMWATER GRATED DRAIN

—

KERB INLET PIT

—

SURFACE INLET PIT

—

JUNCTION PIT

—

GUARDRAIL SAFETY BARRIER

— S

EXISTING SEWER MAIN

— W

EXISTING WATER MAIN

— NBN

EXISTING NBN

— LV/HV

EXISTING ELECTRICAL

— G

EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A7	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date
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Status	MOD 5 APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scales	1 : 250	15-272-C2022.dwg	
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Height Datum	AHD	Designed	GB
		Checked	AM
Grid	LOCAL	Approved	AM

Client

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

Project

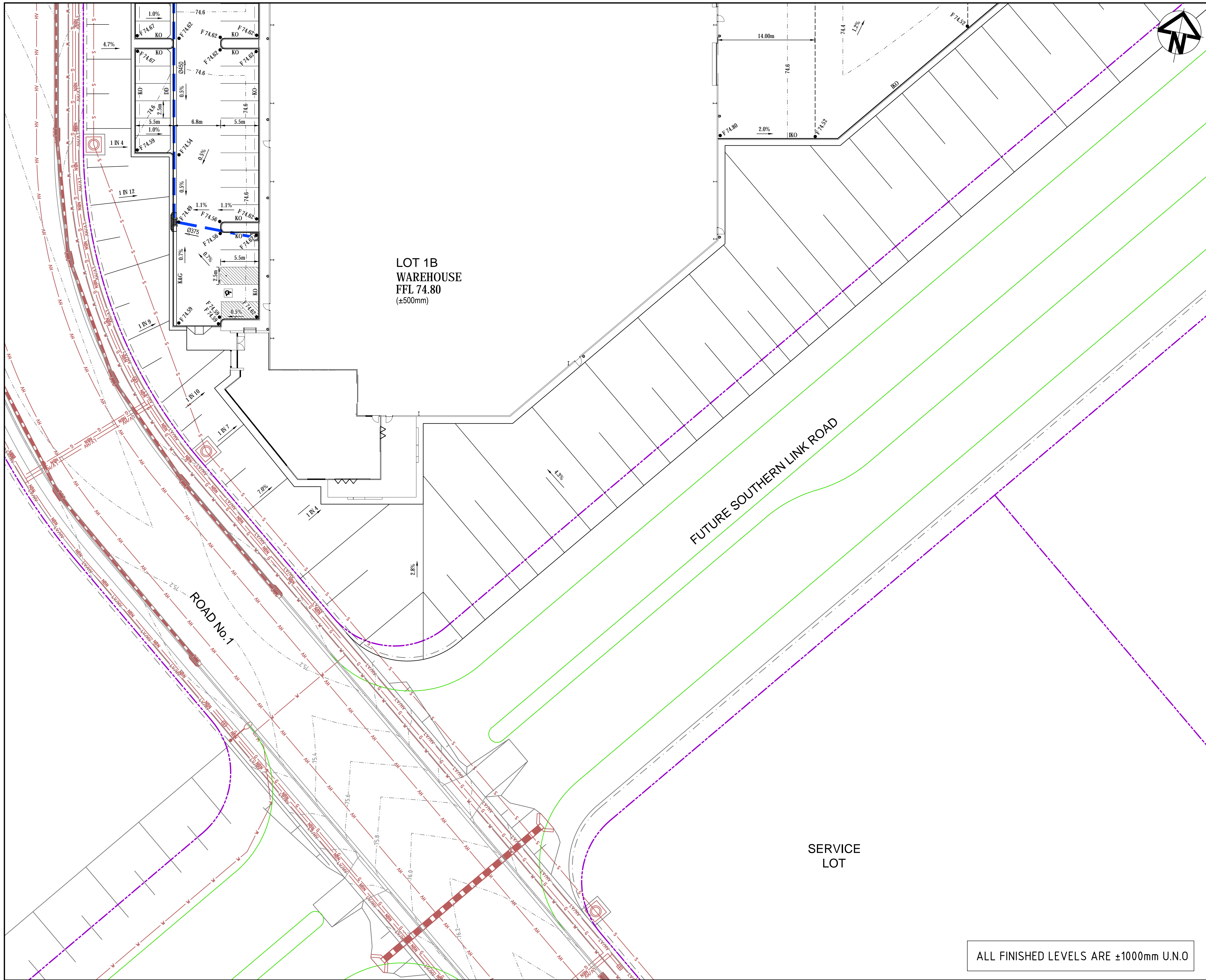
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 13 OF 14

Drawing No.	Project No.	Issue
15-272-C2022	15-272	A11

ALL FINISHED LEVELS ARE ±1000mm U.N.O



KEYPLAN

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IKO INTEGRAL KERB ONLY
- DD DISH DRAIN
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER OVERLAND FLOWPATH
- STORMWATER GRATED DRAIN
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- GUARDRAIL SAFETY BARRIER
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

A11	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A10	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
A7	ISSUED FOR SSD APPROVAL MOD 2	26-07-19

Issue	Description	Date
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Status	MOD 5 APPROVAL	A1
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Grid	LOCAL	Approved	AM

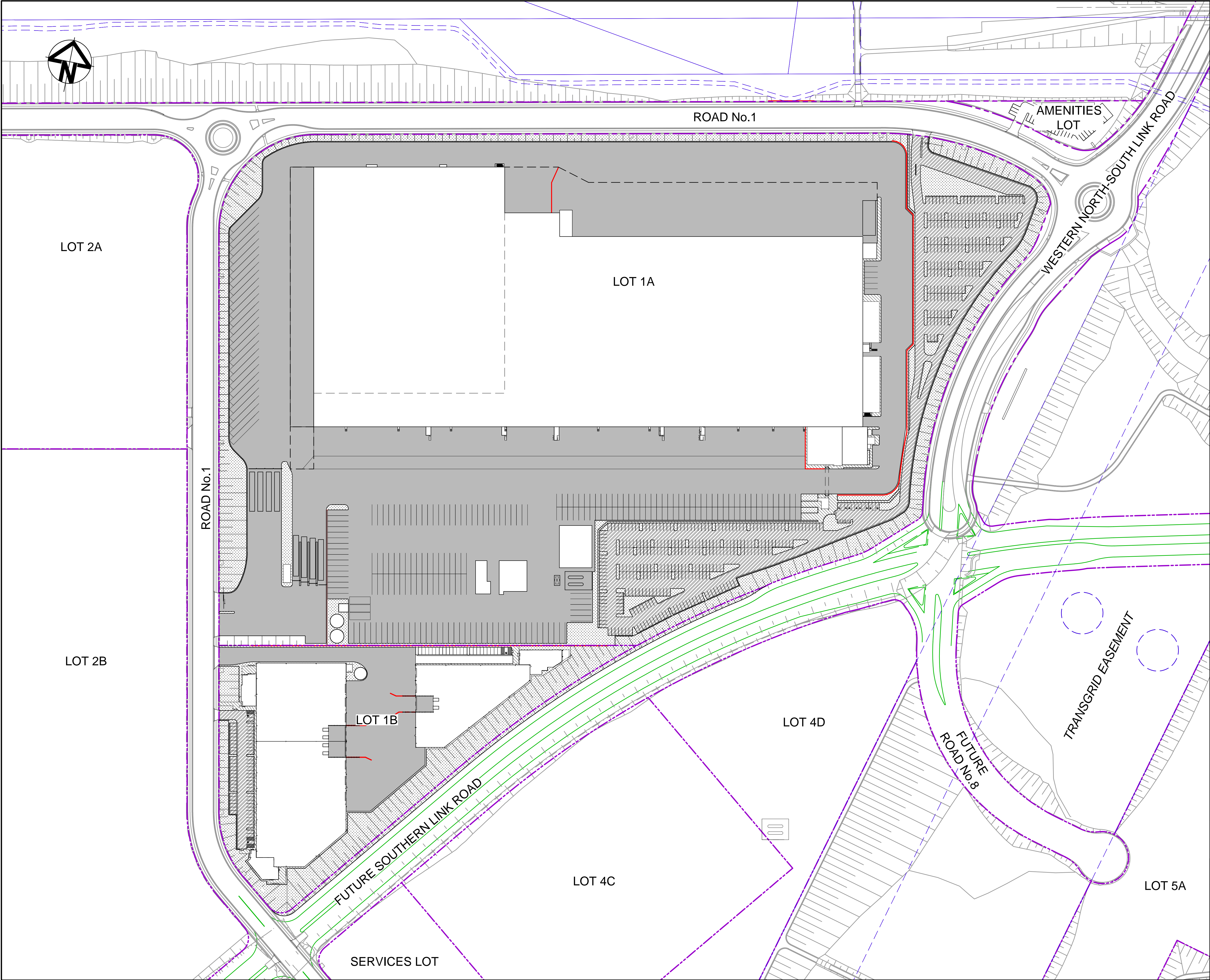
Client

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

Project	PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST		
Title	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 14 OF 14		
Drawing No.	Project No.	Issue	
15-272-C2023	15-272	A11	

ALL FINISHED LEVELS ARE ±1000mm U.N.O



LEGEND

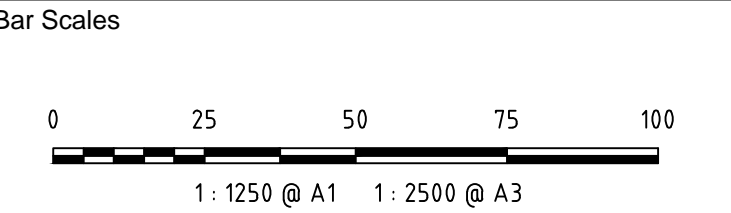
HEAVY DUTY RIGID PAVEMENT

LIGHT DUTY FLEXIBLE PAVEMENT

LANDSCAPING

FIRE ACCESS TRACK

FOOTPATH



A12	ISSUED FOR SSD APPROVAL MOD 5	20-07-20
A11	ISSUED FOR SSD APPROVAL MOD 2	05-03-20
A10	ISSUED FOR SSD APPROVAL MOD 2	29-10-19
A9	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A8	ISSUED FOR SSD APPROVAL MOD 2	01-08-19
A7	ISSUED FOR SSD APPROVAL MOD 2	31-07-19
Issue	Description	Date

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Status	MOD 5 APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scales	1 : 1250	15-272-C2030.dwg	
		Drawn	GB
Height Datum	AHD	Designed	GB
		Checked	AM
Grid	LOCAL	Approved	AM

Client

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

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Title

PAVEMENT PLAN

Drawing No.	Project No.	Issue
15-272-C2030	15-272	A12