

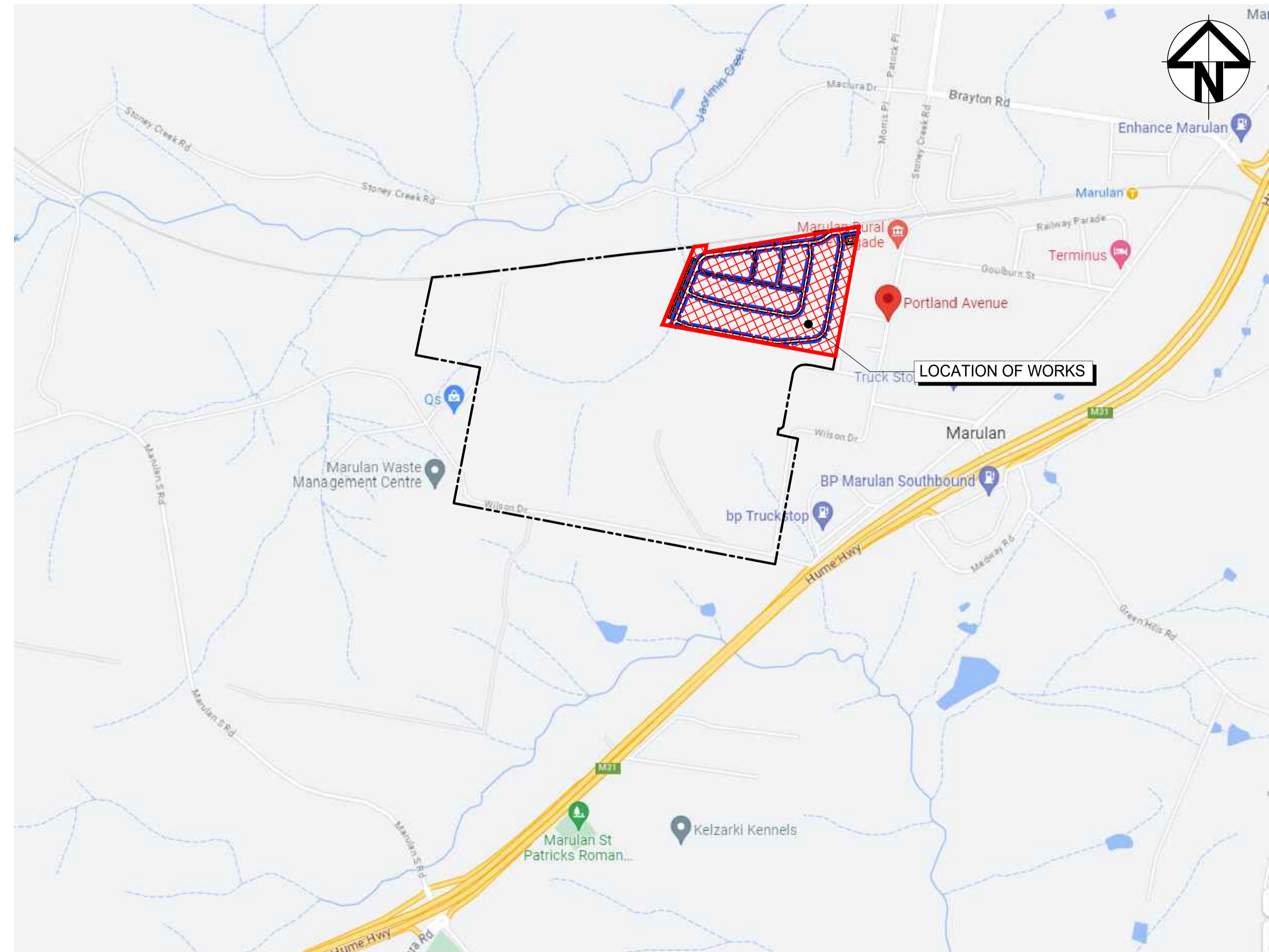
# EQUINOX - STAGE 3

## WILSON DRIVE, MARULAN

### DEVELOPMENT APPLICATION, CIVIL WORKS

#### DRAWING LIST

GENERAL	
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LOCALITY PLAN  
NTS

Bar Scales		Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
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				Grid GDA2020		Designed BK					
				Height Datum AHD		Checked JC					
				GDA2020		Approved		Title			
A ISSUE FOR DA 16-10-23				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				COVER SHEET, DRAWING LIST AND LOCALITY PLAN		Status <b>PRELIMINARY ONLY</b> NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 23-1098-C1000	
P1 DRAFT ISSUE 09-06-23										Issue A	
Issue Description Date											

**SITWORKS NOTES**

- ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 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)
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
- 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.
- 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.
- 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.
- 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.
- 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 LANDPARTNERS, 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:  
TREE SIZES ARE ESTIMATES ONLY.  
ONLY VISIBLE SERVICES HAVE BEEN LOCATED IN THIS SURVEY. SERVICE AND UTILITIES SHOWN ON PLAN HAVE BEEN LOCATED BY PHYSICAL EVIDENCE ON SITE ONLY AND MAY NOT HAVE BEEN OPENED TO VERIFY THE TYPE OF UTILITY. NEITHER EXCAVATION NOR POTHOLES HAVE BEEN CARRIED OUT TO CONFIRM UNDERGROUND LOCATION. SERVICE DETAILS SHOULD BE CONFIRMED WITH THE RELEVANT SERVICE AUTHORITY DURING DESIGN AND PRIOR TO ANY CONSTRUCTION.  
ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ANY CONSTRUCTION. THE POSITION OF SURVEYED DATA HAS BEEN LOCATED AND IS SHOWN TO TOPOGRAPHIC ACCURACIES. IF CLEARANCES TO BOUNDARIES OR OTHER FEATURES ARE CRITICAL AND DIMENSIONS ARE NOT SHOWN FURTHER SURVEY MAY BE REQUIRED.  
THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD SURVEY.  
ANY CONSTRUCTION ON OR NEAR BOUNDARIES WILL REQUIRE FURTHER SURVEY IN ORDER THAT MARKS DEFINING BOUNDARIES CAN BE PLACED.

**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.

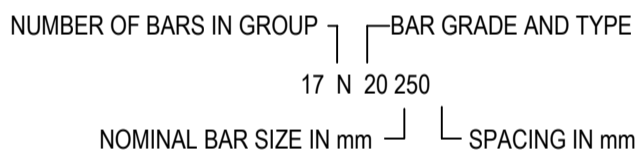
**CONCRETE NOTES**

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

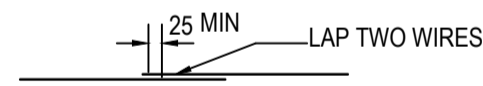
- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 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.
- 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.

- 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



THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

- FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



**KERBING NOTES**

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
  - ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY (AS 1289 5.2.1).
  - 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.
  - 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.
  - BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
  - IN THE REPLACEMENT OF KERB AND GUTTER :- 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**

- 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= 182 mm/hr  
1:20 YEARS= 138 mm/hr  
(C) RUNOFF COEFFICIENTS:  
ROOF AREAS: C 100 =1.0  
EXTERNAL PAVEMENTS: C 100 =0.9
- 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.
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL.
- 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)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500.3 (2021).
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 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.

**FINISHED SURFACE LEVELS**

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

**EROSION AND SEDIMENT CONTROL NOTES**

**GENERAL INSTRUCTIONS**

- THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 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.
- MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 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**

- 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**

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

**SEDIMENT CONTROL**

- 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.
- 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.
- 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.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

**OTHER MATTERS**

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

**EROSION AND SEDIMENT CONTROL NOTES**

**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).



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



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													A1					
													Project - Drawing No. 23-1098-C1001					
													Issue A					

## GOULBURN MULWAREE SHIRE COUNCIL

STANDARD NOTES FOR SUBDIVISION AND WORKS IN ROAD RESERVES

### NOTIFICATION AND INSPECTIONS

1. THE SUPERVISOR SHALL PROVIDE THE COUNCIL ENGINEER WITH 7-DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK.
2. AT LEAST 48-HOURS NOTICE TO COUNCIL'S DEVELOPMENT AND ASSET ENGINEER (PHONE NUMBER 48234444) SHOULD BE GIVEN FOR INSPECTIONS. FAILURE TO NOTIFY THE NEED FOR AN INSPECTION MAY LEAD TO THE PORTION OF THE WORK NOT BEING APPROVED BY THE COUNCIL.
3. THE SUPERVISOR SHALL NOT PROCEED TO THE NEXT STAGE UNTIL THE COUNCIL ENGINEER HAS APPROVED THE PRECEDING STAGE OF WORKS.
4. IN CASES WHERE A PORTION OF THE WORKS IS NOT APPROVED, NO FURTHER WORK MAY PROCEED WHEREBY THE FAILED PORTION OF THE WORK MAY BECOME INCORPORATED INTO ANY NEW WORKS.
5. THE SUPERVISOR MUST ENSURE THAT INSPECTIONS ARE CARRIED OUT AT THE FOLLOWING STAGES OF CONSTRUCTION. COUNCIL WILL ASSUME THE ROLE OF THE PRINCIPAL CERTIFYING/ROADS AUTHORITY. ADDITIONAL INSPECTIONS MAY BE CARRIED OUT AS DIRECTED BY COUNCIL.
6. INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:
  - 1) EROSION AND SEDIMENT CONTROL;
    - a. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES BEFORE CONSTRUCTION;
  - 2) DRAINAGE;
    - a. TRENCH EXCAVATED, BEDDING MATERIAL PLACED AND PIPES/CONDUITS (SHOWING PIPE CLASS) LAID PRIOR TO BACKFILLING AND NON-COHESIVE GRANULAR BACKFILLING MATERIAL UP TO HAUNCH;
    - b. FILTER MATERIAL PLACED IN SUBSOIL DRAINS PRIOR TO BACKFILLING;
    - c. PIT WALLS, WING WALLS AND HEAD WALLS WITH REINFORCEMENT AND PLACE PRIOR TO CASTING;
    - d. CONNECTION TO EXISTING SYSTEM PRIOR TO BACKFILLING;
    - e. CHANNEL/WATERCOURSE TAIL OUT WORKS AFTER CONSTRUCTION;
3. PAVEMENT CONSTRUCTION;
  - a. PRIOR TO WORKS COMMENCING APPROVAL OF THE MATERIAL USED IN ROAD PAVEMENTS SHALL BE OBTAINED FROM COUNCIL, INCLUDING THE SOURCE OF THE MATERIAL AND MOST RECENT MATERIAL TESTING.
  - b. SUB-GRADE ROLLER TEST (A VISUAL CHECK AND ROLLER TEST WITH 10T SMOOTH DRUM ROLLER) OR IN ACCORDANCE WITH TEST METHOD T198.
  - c. SUB BASE ROLLER TEST AT KERB ALIGNMENT (A VISUAL CHECK AND ROLLER TEST WITH 10T SMOOTH DRUM ROLLER) OR IN ACCORDANCE WITH TEST METHOD T198.
  - d. BASE COURSE BENKELMAN BEAN TEST CARRIED OUT BY NATA REGISTERED GEOTECHNICAL ENGINEER AT 10M INTERVALS.
- 4) WEARING SURFACE
  - a. APPLICATION OF THE WEARING SURFACE SHALL NOT OCCUR WITHOUT THE APPROVAL OF COUNCIL. THE FOLLOWING SHALL BE SUBMITTED TO COUNCIL TO DEMONSTRATE COMPLIANCE WITH COUNCIL'S SPECIFICATION PRIOR TO APPROVAL TO SEAL.
    - i) COMPACTION TEST FOR SUBGRADE, SUB BASE AND BASE PRIOR TO THE PLANTING OF ANY PLANTS, APPROVAL SHALL BE OBTAINED BY COUNCIL.
    - ii) MATERIALS TESTING AND SAMPLING FOR SUB BASE AND BASE
    - iii) BENKELMAN BEAM TEST RESULTS
  - b. VISUAL INSPECTION OF THE INITIAL SEAL/PRIMER SEAL PRIOR TO APPLICATION OF THE FINAL WEARING SURFACE
  - c. CORE DRILLS OF THE WEARING SURFACE WILL BE UNDERTAKEN BY COUNCIL.
- 5) FOOTPATH, OFF-ROAD CYCLEWAY AND SHARED WAY WORKS;
  - a. CONCRETE FOOTPATHS, CYCLEWAYS, SHARED WAYS AND PATHWAYS FORMED AND REINFORCEMENT IN PLACE PRIOR TO PLACEMENT OF CONCRETE;
- 6) ON-SITE DETENTION SYSTEM (OSD);
  - a. STEEL AND FORMWORK FOR TANK/PIT PRIOR TO PLACEMENT OF CONCRETE;
  - b. PIPES UPSTREAM/DOWNSTREAM OF TANK/PIT PRIOR TO BACKFILLING;
- 7) INSTALLATION OF STORMWATER QUALITY DEVICES;
  - a. PRIOR TO WORKS COMMENCING APPROVAL OF THE MATERIAL USED IN STORMWATER QUALITY DEVICES SUCH AS STORMWATER BIO FILTRATION SYSTEMS SHALL BE OBTAINED FROM COUNCIL, INCLUDING THE SOURCE OF THE MATERIAL AND MOST RECENT MATERIAL TESTING.
  - b. INSPECTION OF EACH LAYER IN THE STORMWATER QUALITY DEVICE PRIOR TO PLACEMENT OF THE NEXT LAYER.
  - c. PRIOR TO THE PLANTING OF ANY PLANTS, APPROVAL SHALL BE OBTAINED BY COUNCIL.

### GENERAL NOTES

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH GOULBURN MULWAREE COUNCIL'S ENGINEERING DESIGN AND ENGINEERING CONSTRUCTION SPECIFICATIONS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY.
2. NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL.
3. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
4. NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
5. VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
6. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
7. SHOULD ANY UNEXPECTED FINDS OF CONTAMINATION BE IDENTIFIED ON THE SITE, THE UNEXPECTED FINDS PROCEDURES AND PROTOCOLS SHOULD BE FOLLOWED.
8. IF ANY PREVIOUSLY UNRECORDED OR UNANTICIPATED ABORIGINAL OBJECTS ARE ENCOUNTERED DURING THE DEVELOPMENT ACTIVITIES - WORK MUST CEASE IMMEDIATELY AND THE NATURE AND EXTENT OF THE OBJECTS ASSESSED. THE APPLICANT/OWNER/BUILDER SHALL CEASE WORK IMMEDIATELY IN THE VICINITY OF THE ARTEFACT/S OR OBJECT/S AND CONTACT THE OFFICE OF ENVIRONMENT & HERITAGE AT QUEANBEYAN (COUNTRY, CULTURE & HERITAGE) AND PEJAR LOCAL ABORIGINAL LAND COUNCIL TO ARRANGE FOR THE ASSESSMENT OF THE ARTEFACTS. COUNCIL IS TO BE NOTIFIED OF THE OUTCOME OF THE INSPECTION.
9. IF ABORIGINAL OBJECTS AND/OR PLACES WILL BE DIRECTLY OR INDIRECTLY ADVERSELY AFFECTED, THE PROPONENT WILL NEED TO APPLY FOR, AND BE ISSUED WITH, AN ABORIGINAL HERITAGE IMPACT PERMIT (AHIP) BY OFFICE OF ENVIRONMENT & HERITAGE.
10. AT THE CONCLUSION OF THE CONSTRUCTION WORKS, WORK-AS-EXECUTED (WAE) DRAWINGS SHALL BE SUBMITTED, IN ACCORDANCE WITH COUNCIL'S ENGINEERING STANDARDS. WAE DRAWINGS SHALL BE PROVIDED IN HARD COPY, PDF AND DWG FORMAT ON USB (PREFERABLY) OR CD. AT THE CONCLUSION OF THE FINAL STAGE OF THIS DEVELOPMENT, A CONSOLIDATED SET OF WORK AS EXECUTED DRAWINGS AND GPS DATA SHALL BE PROVIDED ENCOMPASSING ALL THE STAGES.

### EARTHWORKS NOTES

1. EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND SUBMIT TO COUNCIL, COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200 MM.
2. COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS. 1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
3. THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS IN A WRITTEN REPORT SUBMITTED TO COUNCIL.
4. IN THE EVENT THAT ANY AREAS OF POTENTIAL SITE CONTAMINATION ARE DISCOVERED DURING WORKS, WORK SHALL CEASE AND THE APPLICANT SHALL CONTACT THE COUNCIL AND ANY OTHER RELEVANT AUTHORITY. A SUITABLY QUALIFIED CONSULTANT SHALL BE ENGAGED TO INVESTIGATE THE LIKELIHOOD AND/OR EXTENT OF SITE CONTAMINATION, AND A CONTAMINATION REPORT SHALL BE PREPARED IN ACCORDANCE WITH THE PUBLICATION 'GUIDELINES FOR CONSULTANTS REPORTING ON CONTAMINATED SITES' BY THE NSW OFFICE OF ENVIRONMENT AND HERITAGE).
5. ALL BATTERS ARE TO BE SCARPED TO A DEPTH OF 50 MM TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
6. PROVIDE MINIMUM 150 MM ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOP SOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOP SOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
7. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.

### ROADWORKS NOTES

1. SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).
3. 150 X 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF 90 MM DIAMETER STORMWATER PIPE.
4. UNLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL IN ACCORDANCE WITH STANDARD DRAWING SD-R 10 A AND SD-R 10 B.
5. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ESSENTIAL ENERGY AND TELSTRA.
6. PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750 MM.
7. ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
8. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 '111 RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.
9. STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

### STORMWATER NOTES

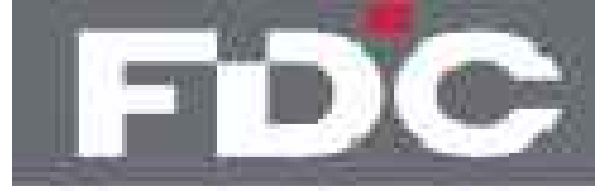


1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPA AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
7. ALL INTERALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150 MM AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
8. ALL INTERALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
9. INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
11. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP, FLOOD PLANNING LEVEL AND PROBABLE MAXIMUM FLOOD.
12. ADEQUATE PERMANENT SCOUR PROTECTION AND SEDIMENTATION CONTROL SHALL BE PROVIDED FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
13. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

### LANDSCAPING NOTES

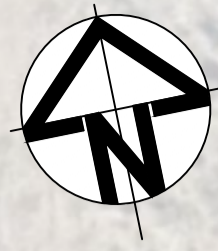
1. THE DEVELOPER IS REQUIRED TO PLANT STREET TREES BEING A MAXIMUM OF ONE TREE FOR EACH LOT AND TWO TREES FOR CORNER THE SPECIES OF THE TREE SHOULD BE IN ACCORDANCE WITH THE THEMES CONTAINED IN THE GOULBURN STREET TREE MASTER PLAN AND BE APPROVED BY COUNCIL'S LANDSCAPE & HERITAGE PLANNER
2. STREET TREES SHALL BE ADVANCED SPECIMENS HAVING A CONTAINER VOLUME OF 25 LITRES AND A HEIGHT OF AT LEAST 1.5M. THE TREES SHALL BE STAKED WITH THREE 1800 MM X 50 MM SQUARE HARDWOOD STAKES AND LOOSELY SECURED WITH HESSIAN WEBBING. THE PLANTING HOLE IS TO BE TWICE THE WIDTH AND ONE AND A HALF TIMES THE DEPTH OF THE POT OF THE TREE TO BE PLANTED. THE HOLE SHALL BE FILLED WITH SOIL SUITABLE FOR TREE GROWTH BEING MADE UP OF FREE DRAINING COARSE SAND 50%, LOAM 20% AND COMPOSTED ORGANIC MATTER 30% AND HAVING A NEUTRAL PH.
3. A MINIMUM 600MM WIDE, CONTINUOUS STRIP OF CANTURF CANBERRA BLEND OR EQUIVALENT (75% TALL FINE FESCUE, 25% KENTUCKY BLUEGRASS) TURF SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND ADJACENT TO OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.
4. ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED.

HYDROMULCH AND SEED MIX TO BE:

CANTURF CANBERRA BLEND OR EQUIVALENT (75% TALL FINE FESCUE, 25% KENTUCKY BLUEGRASS) IN THE ROAD RESERVE AND OTHER PUBLIC OPEN SPACES  
1,500KG/HA OF CELLULOSE FIBRE  
SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES. (E.G. ORGANIC GAUR TACKIFIERS @ 20 - 30 KG/HA, BASED ON, SITE CONDITIONS).  
GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.

		Bar Scales				Client		Scales		Drawn		Project		Civil Engineers and Project Managers					
								NTS		NT		EQUINOX - STAGE 3 WILSON DRIVE, MARULAN		 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		GDA2020						Checked		BK	
								Height Datum		AHD						Approved		JC	
												Title							
												GENERAL NOTES SHEET 2		Status <b>PRELIMINARY ONLY</b> NOT TO BE USED FOR CONSTRUCTION					
A		ISSUE FOR DA		16-10-23										A1					
P1		DRAFT ISSUE		09-06-23										Issue					
Issue		Description		Date										A					

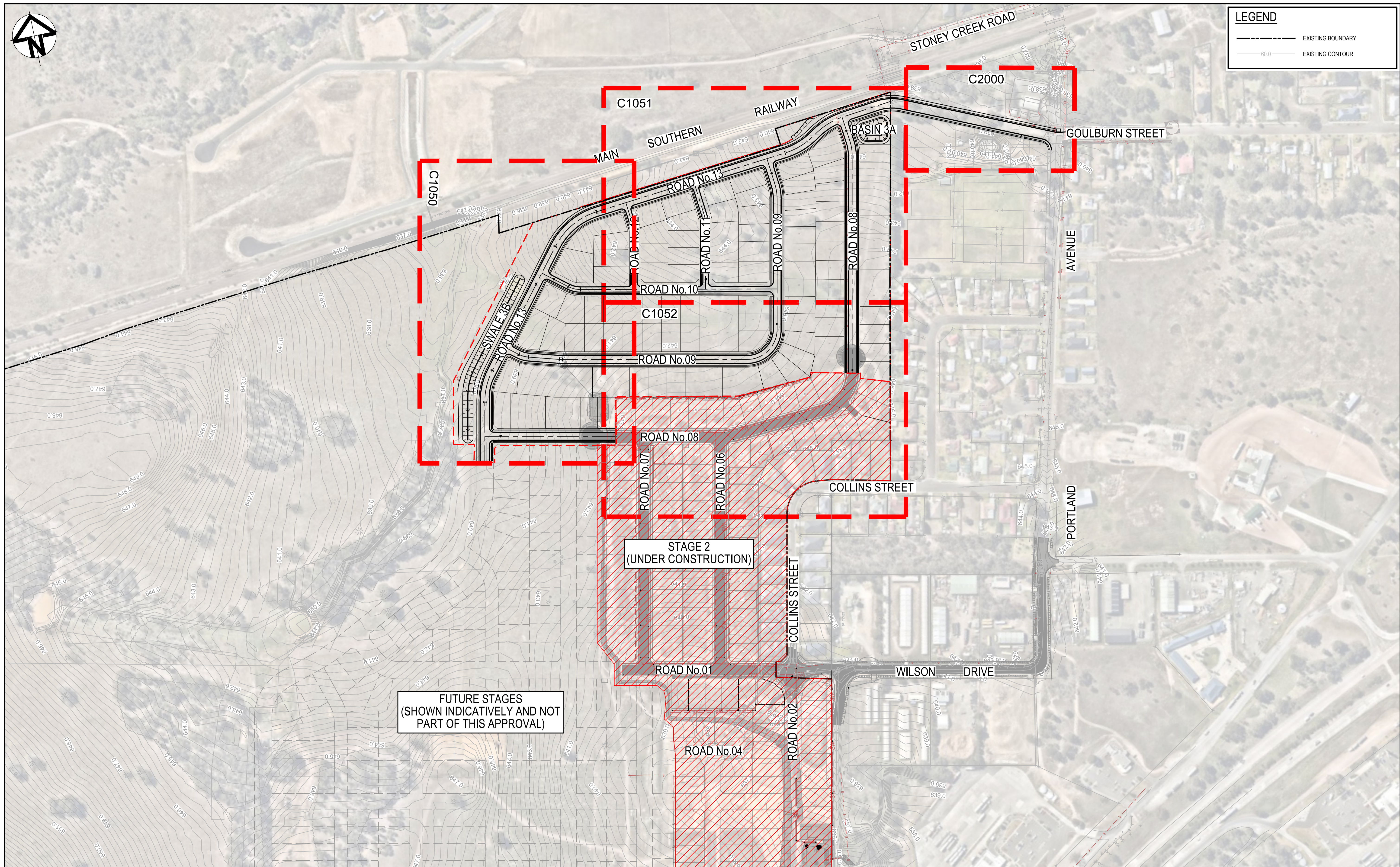
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**LEGEND**

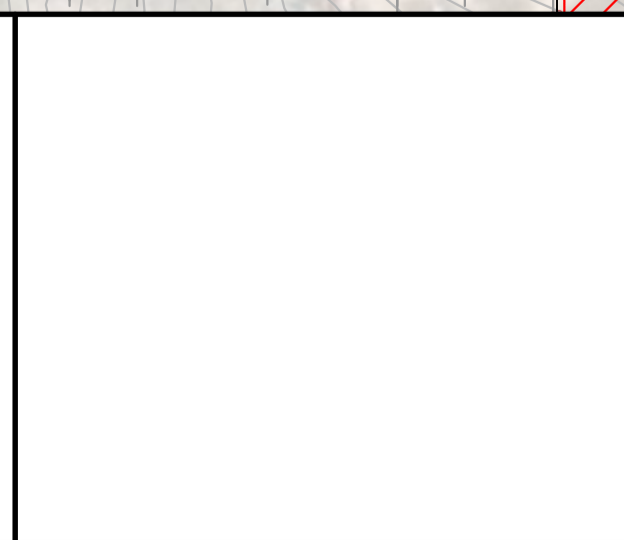
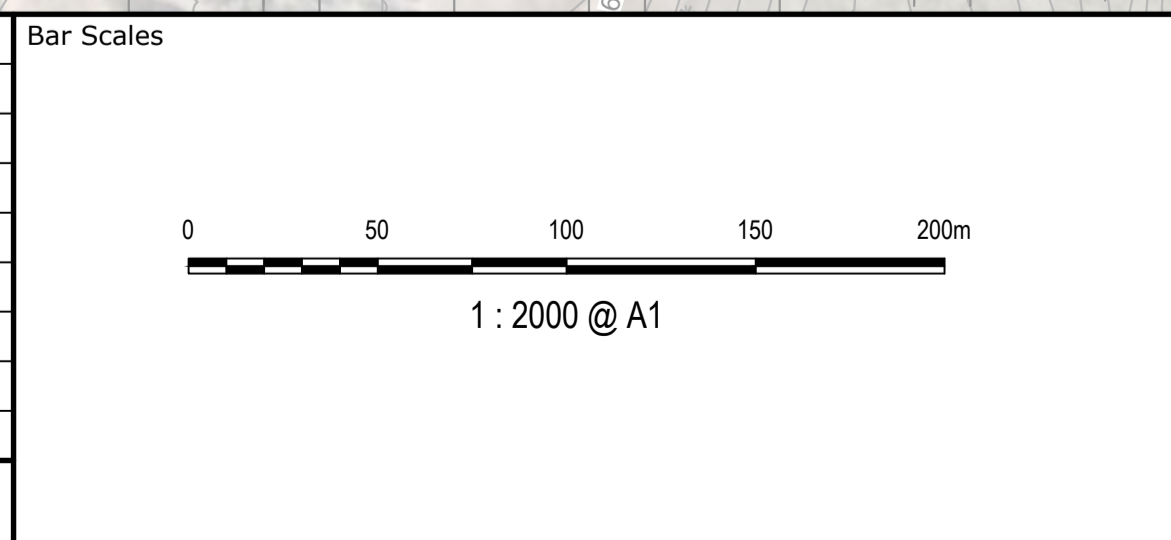
--- EXISTING BOUNDARY

60.0 --- EXISTING CONTOUR



FUTURE STAGES  
(SHOWN INDICATIVELY AND NOT  
PART OF THIS APPROVAL)

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC
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Scale	1:2000	Drawn	NT
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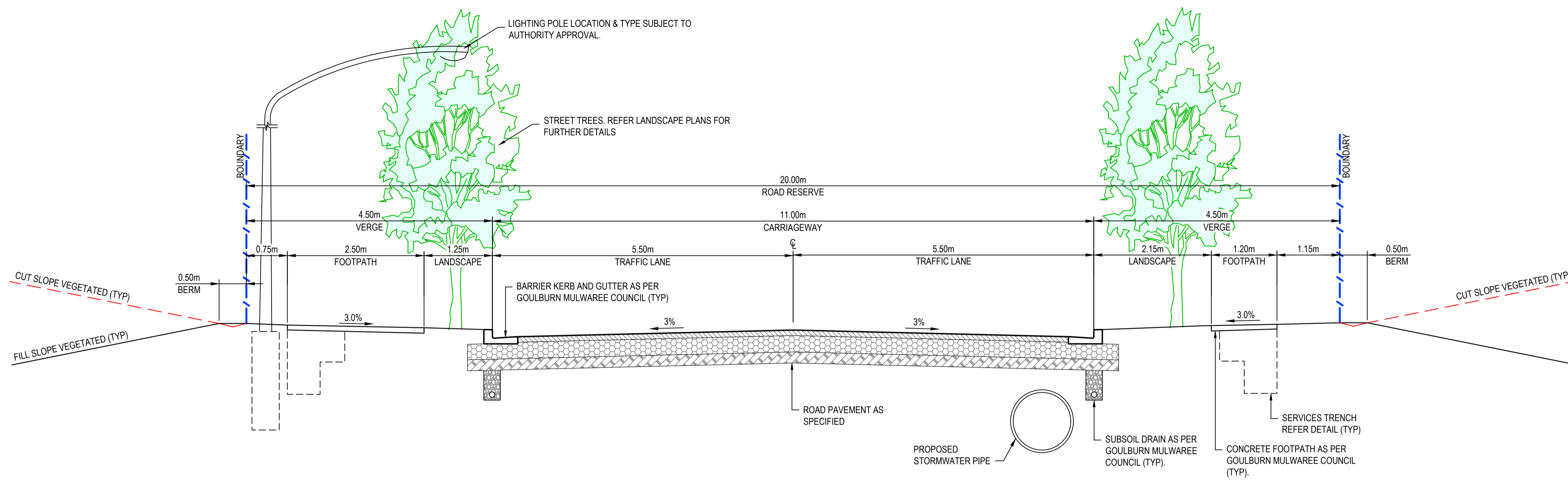
Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers

**at&i**

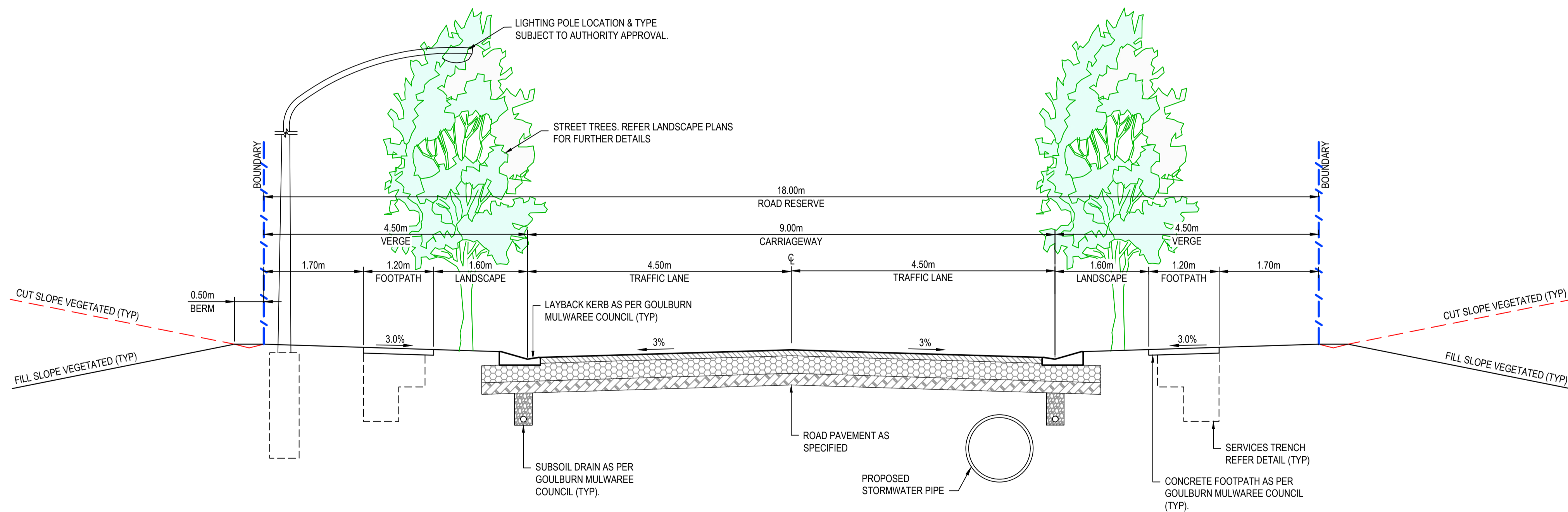
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Project - Drawing No.	23-1098-C1010	Issue
		A



TYPICAL SECTION (COLLECTOR STREET)

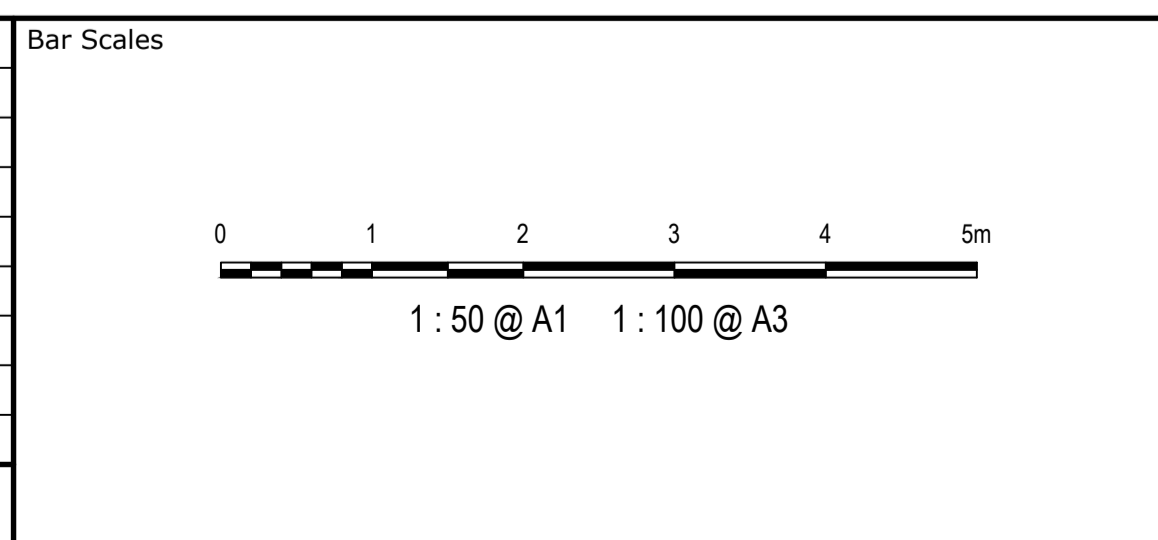
SCALE 1:50



TYPICAL SECTION (LOCAL STREET)

SCALE 1:50

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Scales	Drawn	NT
AS SHOWN	Designed	BK
Grid GDA2020	Checked	JC
Height Datum AHD	Approved	

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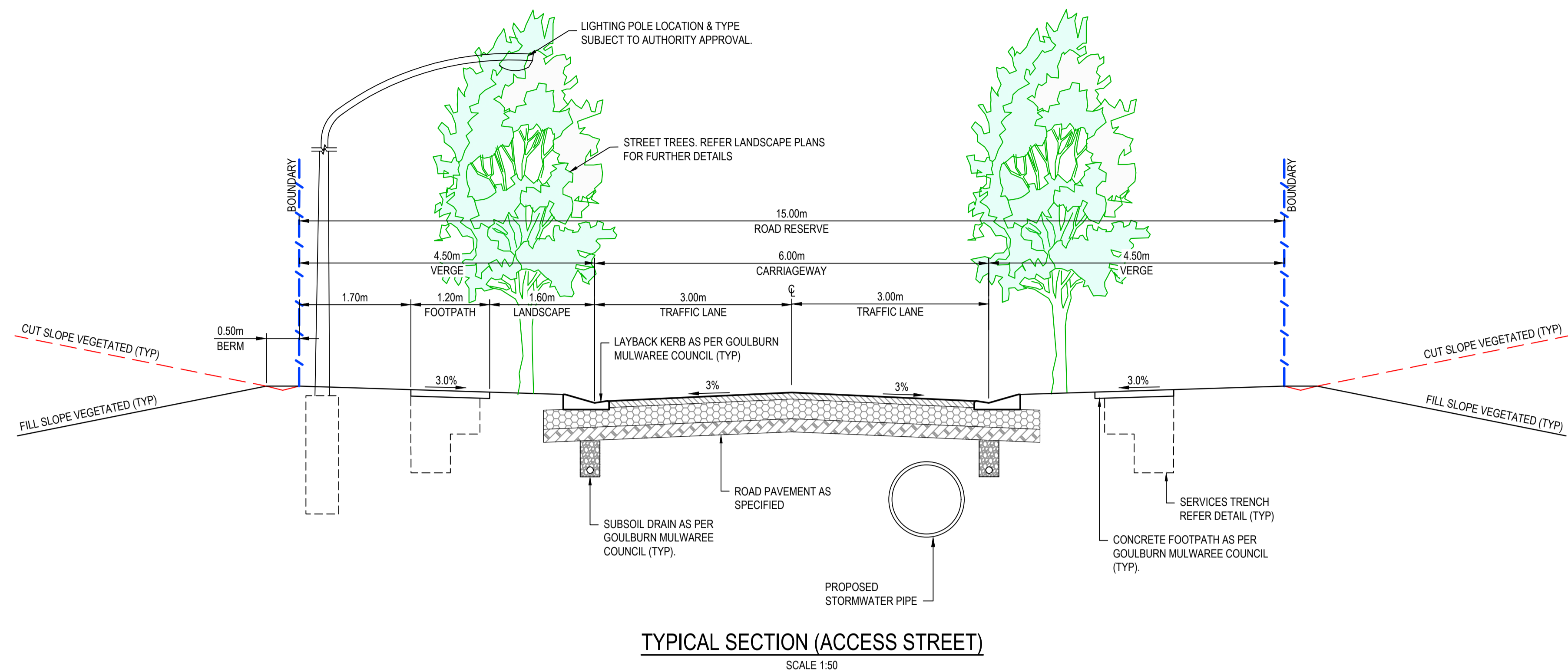
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Project	Title
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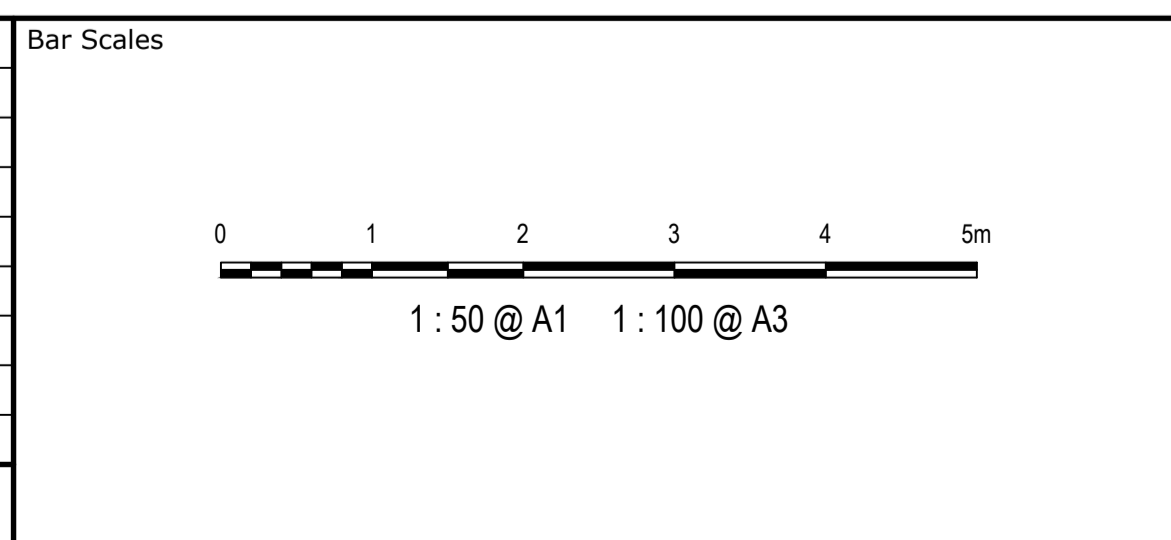
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		A



A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23
Issue	Description	Date



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GDA2020	Designed	BK
AHD	Checked	JC
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Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	TYPICAL SECTIONS SHEET 2

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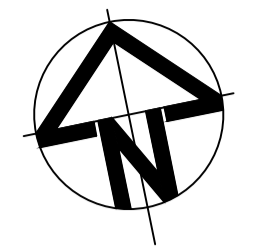
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Project - Drawing No.	23-1098-C1021	Issue
		A

**LEGEND:**

EXISTING	EXISTING BOUNDARY
60.0	EXISTING CONTOUR
PROPOSED	PROPOSED BOUNDARY

**EARTHWORKS VOLUMES**

A	B	C	D = A+B+C
EXISTING TOPSOIL STRIPPING VOLUME (cu.m) REFER NOTE No.1	NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-20,600	-34,662	31,554	-3,107



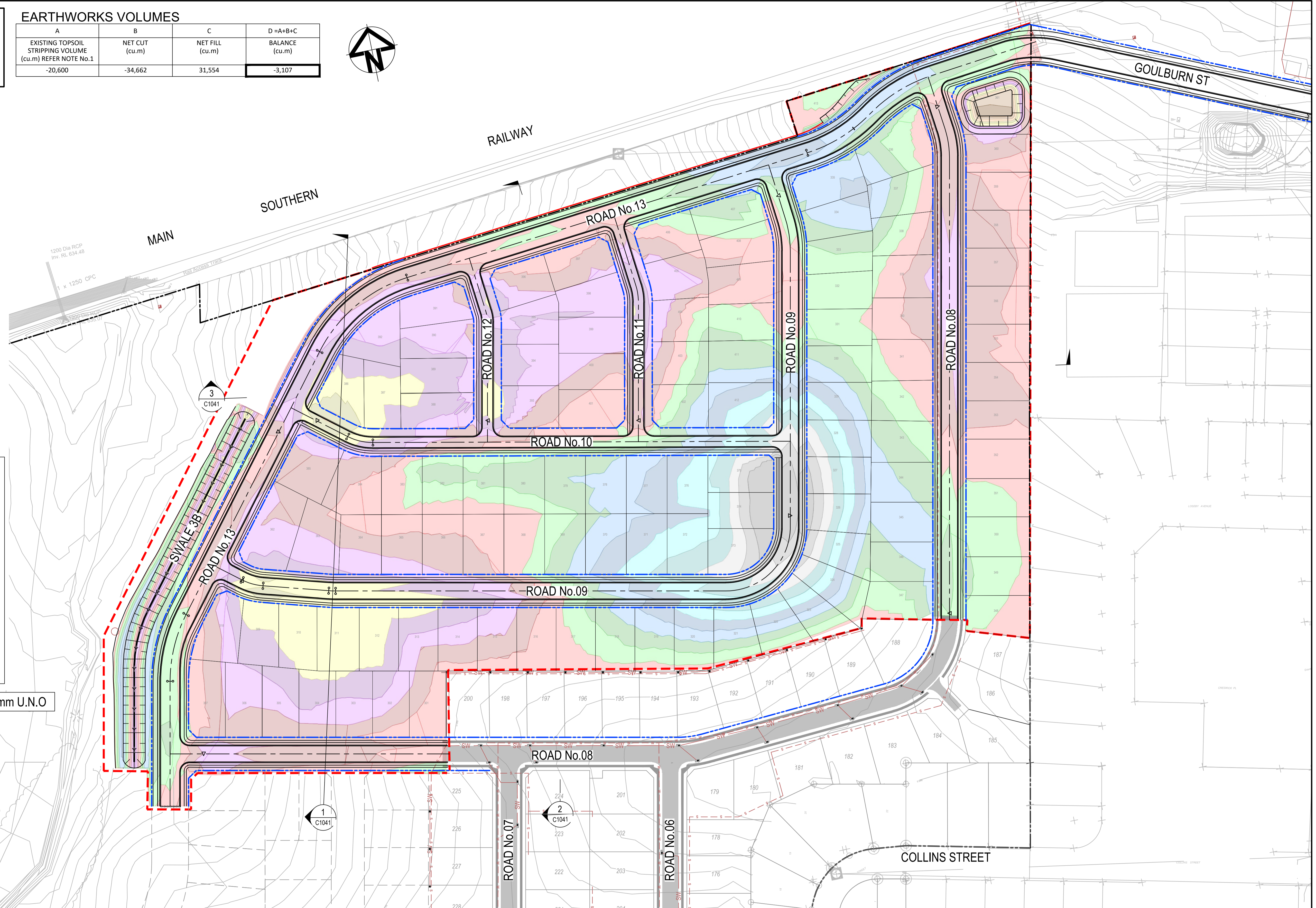
**CUT/FILL DEPTH RANGE LEGEND**

Lower value	Upper value	Colour
-1.00	to -2.00 m	Dark Brown
-2.00	to -1.75 m	Light Brown
-1.75	to -1.50 m	Orange
-1.50	to -1.25 m	Yellow-Green
-1.25	to -1.00 m	Yellow
-1.00	to -0.75 m	Light Green
-0.75	to -0.50 m	Light Purple
-0.50	to -0.25 m	Light Red
-0.25	to 0.00 m	Red
0.00	to 0.25 m	Light Green
0.25	to 0.50 m	Green
0.50	to 0.75 m	Light Blue
0.75	to 1.00 m	Blue
1.00	to 1.25 m	Light Blue
1.25	to 1.50 m	Light Cyan
1.50	to 1.75 m	Light Grey
1.75	to 2.00 m	Grey
2.00	to 1000 m	Dark Grey

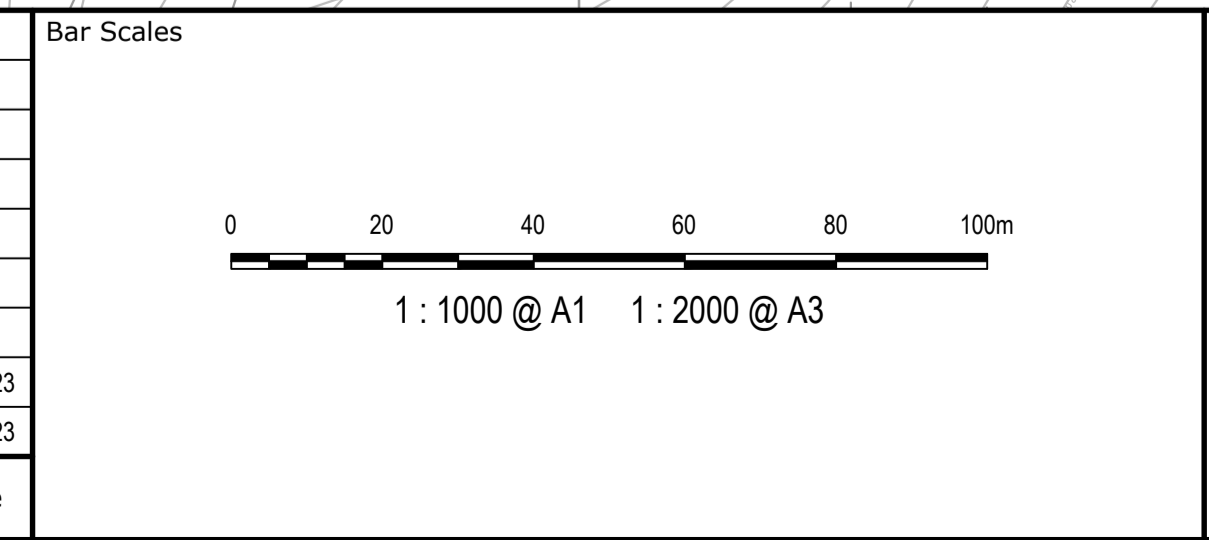
**NOTES:**

- EXISTING TOPSOIL STRIPPED 150mm
- ADDITIONAL EXCAVATION OF EXISTING DAMS WITHIN SITE AREA TO A DEPTH OF 1m BELOW EXISTING INVERT AND WIDTH OF EXISTING DAM EXTENT. VOLUMES ARE APPROXIMATE. EXCAVATED MATERIAL TO BE FARMED AND USED AS GENERAL FILL WITHIN FILL ZONES 2m BELOW FINAL SURFACE.
- NEGATIVE BALANCE VOLUMES INDICATE EXCESS OF MATERIAL (EXPORT).
- ROAD PAVEMENT DEPTH ASSUMED 350mm.
- 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.
  - ENGINEERING FILL BEHIND RETAINING WALLS.

ALL LEVELS SHOWN ± 1000mm U.N.O



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client



Scales	1:1000	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**BULK EARTHWORKS  
CUT/FILL  
PLAN**

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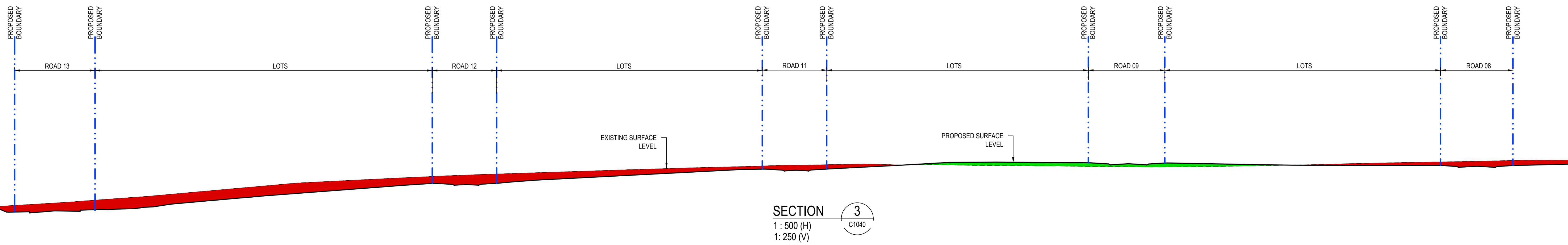
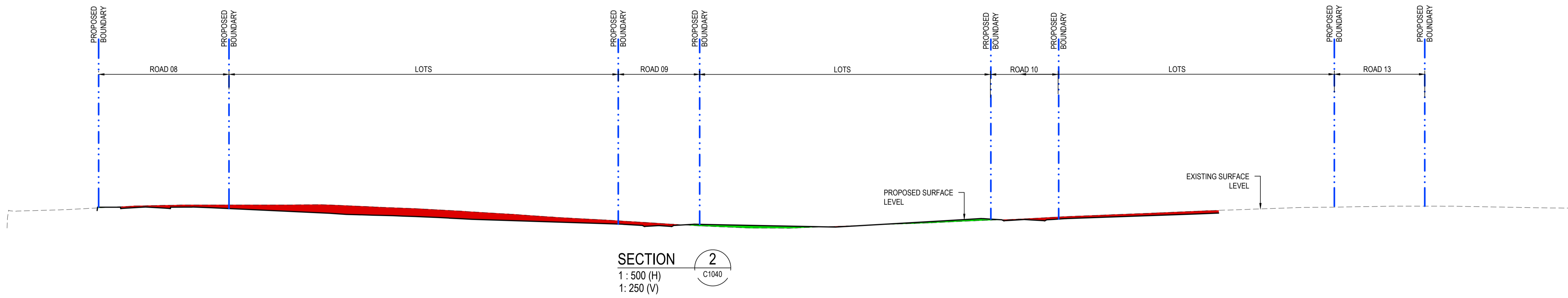
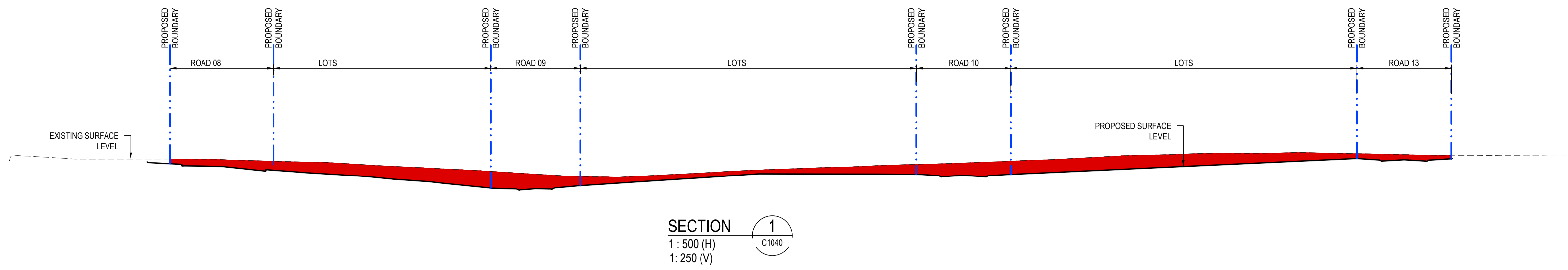
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Project - Drawing No.  
**23-1098-C1040**

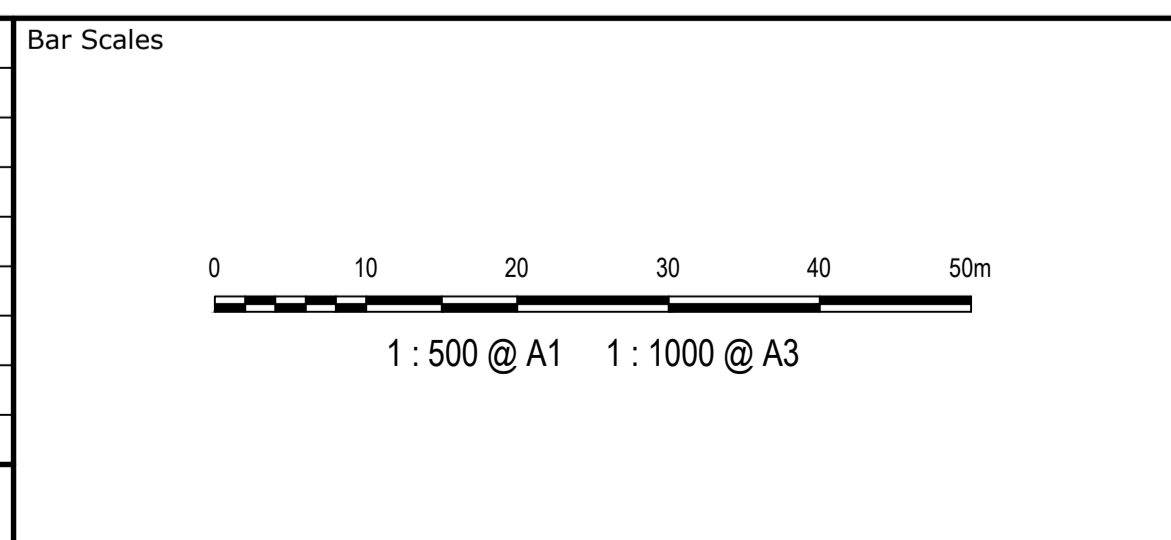
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Project  
**EQUINOX - STAGE 3  
 WILSON DRIVE,  
 MARULAN**

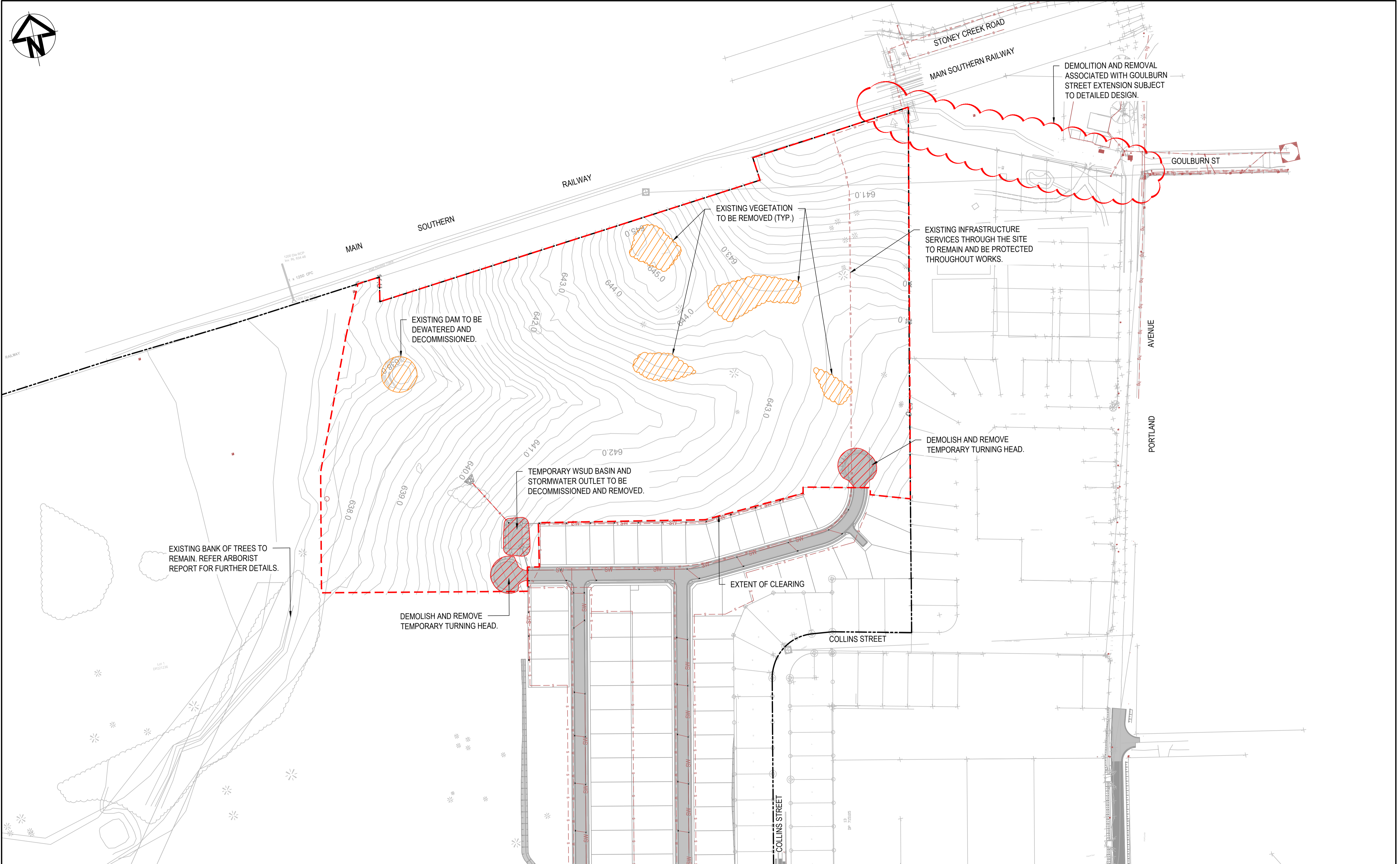
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**BULK EARTHWORKS  
 SECTION**

Civil Engineers and Project Managers

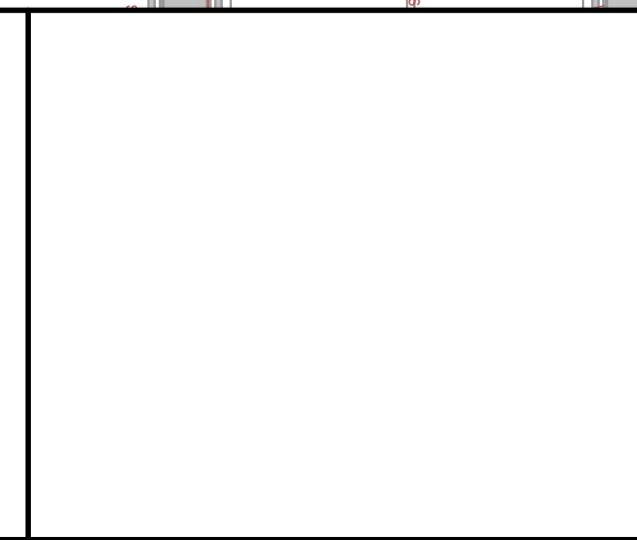
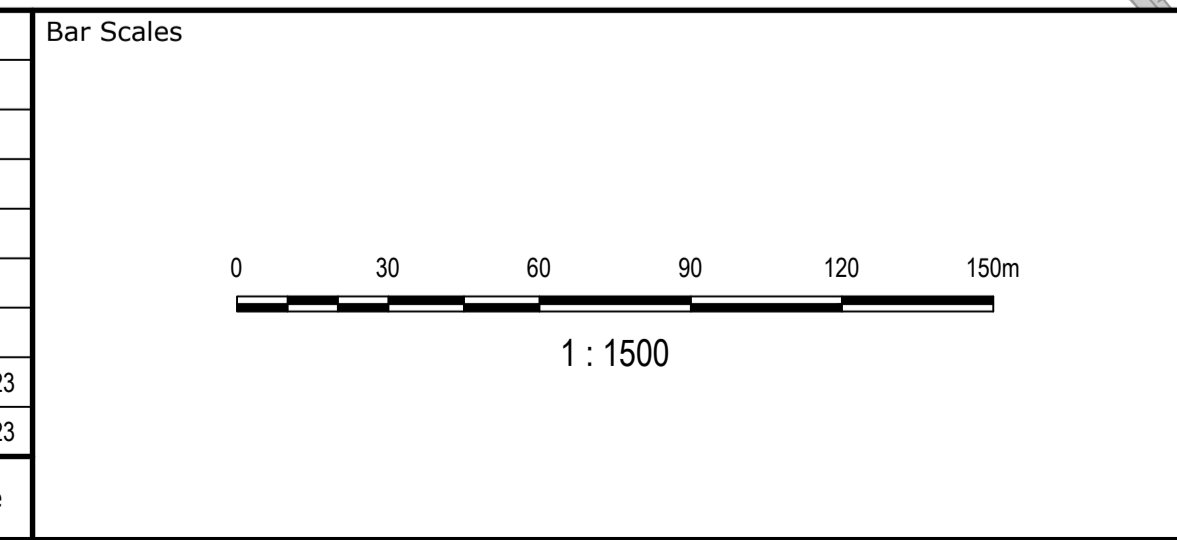
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Status <b>PRELIMINARY ONLY    NOT TO BE USED FOR CONSTRUCTION</b>	Issue <b>A1</b>
Project - Drawing No. <b>23-1098-C1041</b>	Issue <b>A</b>





Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client

Scales	1:1500	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

GDA2020

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Project

**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title

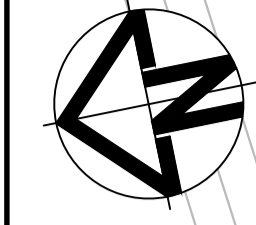
**DEMOLITION  
PLAN**

Civil Engineers and Project Managers

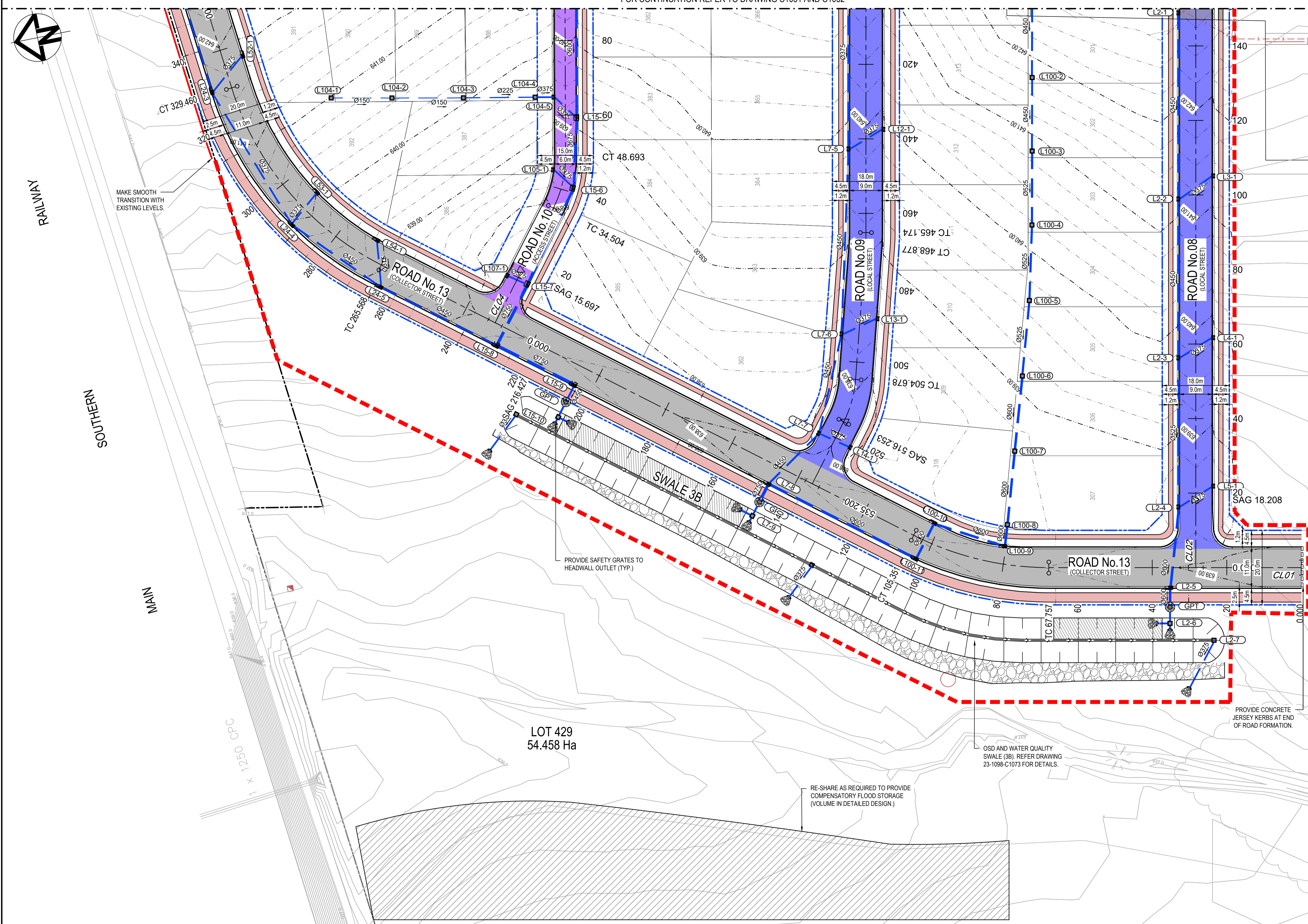
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status	<b>PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	23-1098-C1042	Issue
		A

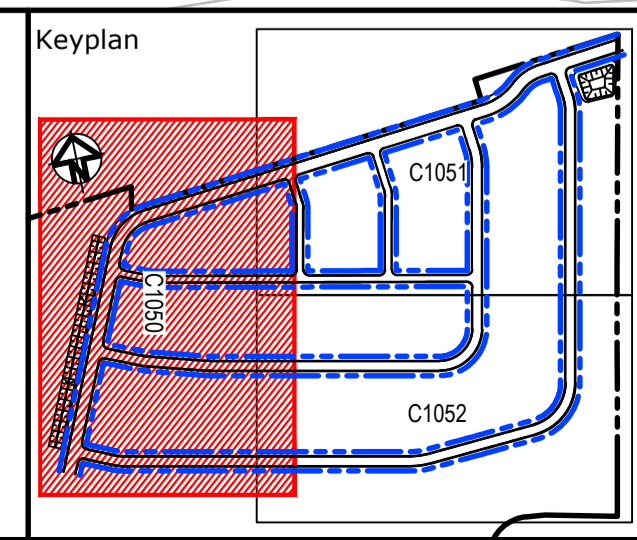
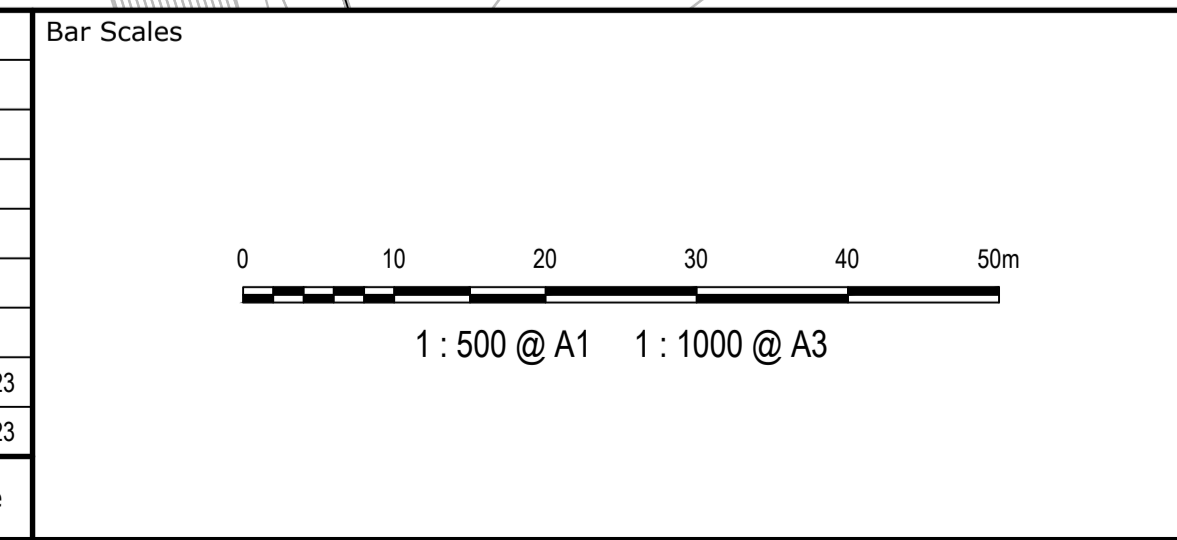
FOR CONTINUATION REFER TO DRAWING C1051 AND C1052



SITWORKS LEGEND	
	EXISTING BOUNDARY
	EXISTING CONTOUR
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED RETAINING WALL
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER CUT BATTER 1(V):3(H) FILL BATTER 1(V):5(H) U.N.O
	PROPOSED BARRIER KERB
	PROPOSED KERB
	PROPOSED STORMWATER SURFACE INLET PIT
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	EXISTING STORMWATER (STAGE 02)
	PROPOSED STORMWATER PIT LABEL
	LOCAL STREET PAVEMENT
	COLLECTOR STREET PAVEMENT
	ACCESS STREET PAVEMENT
	PROPOSED CONCRETE FOOTPATH PAVEMENT
	EXISTING SEWER SERVICE
	EXISTING WATER
	EXISTING TELSTRA
	EXISTING STORMWATER
	EXISTING GAS
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Scales	1:500	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

GDA2020

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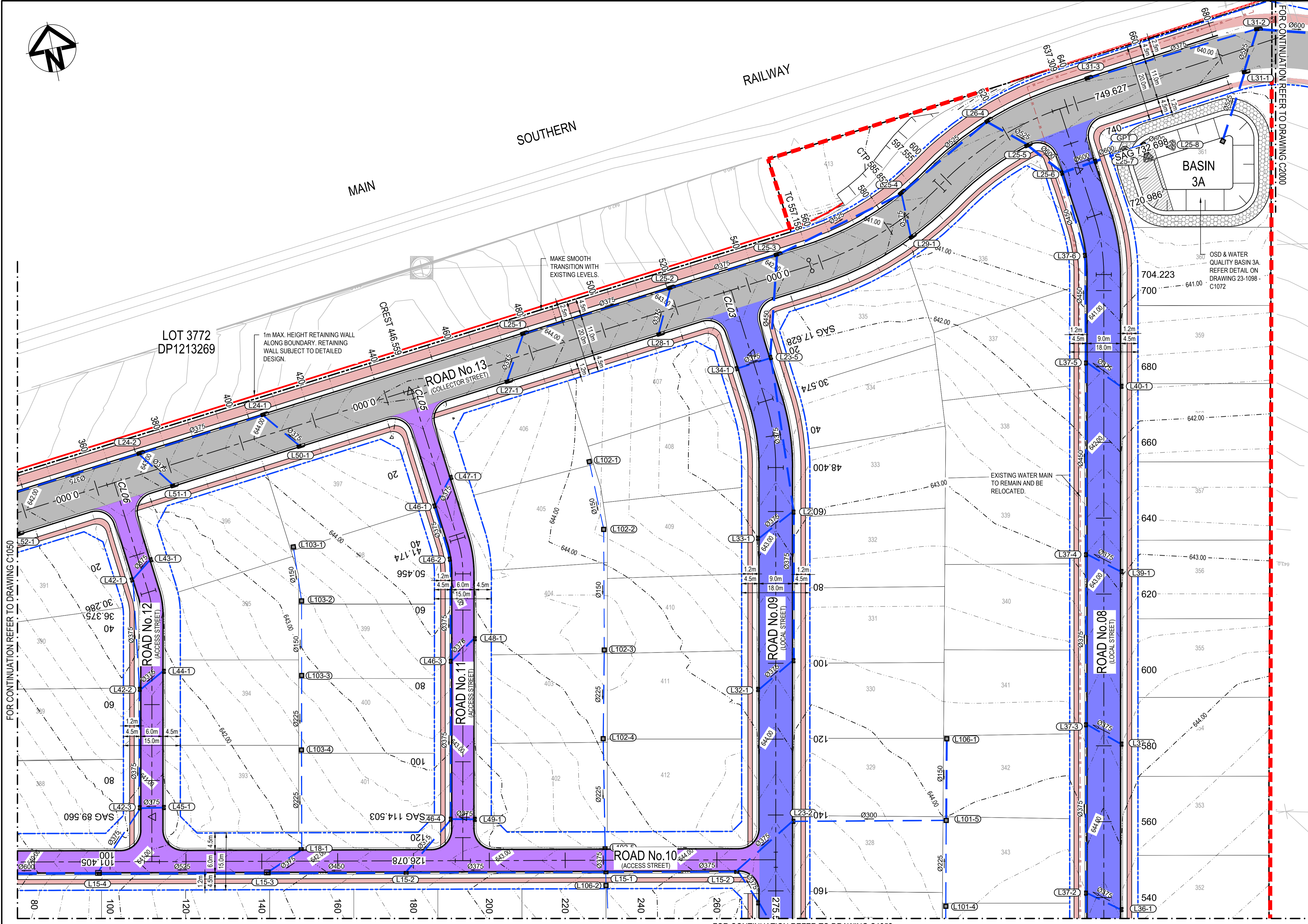
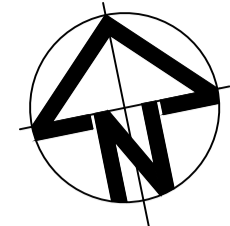
Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**SITWORKS AND  
STORMWATER  
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	<b>PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	23-1098-C1050	Issue
		A



### SITWORKS LEGEND

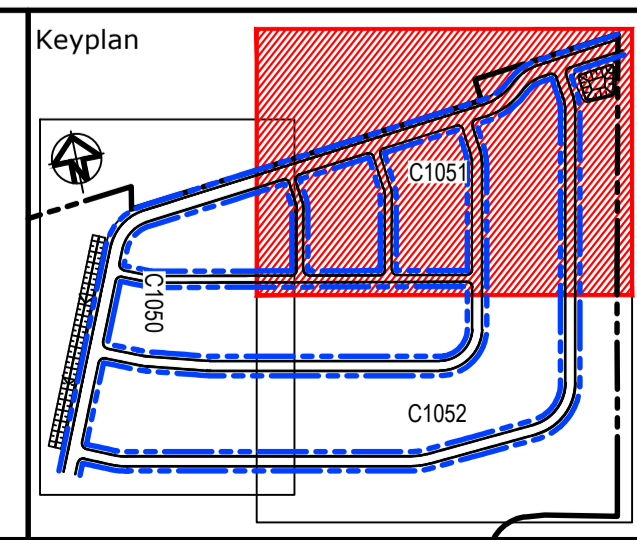
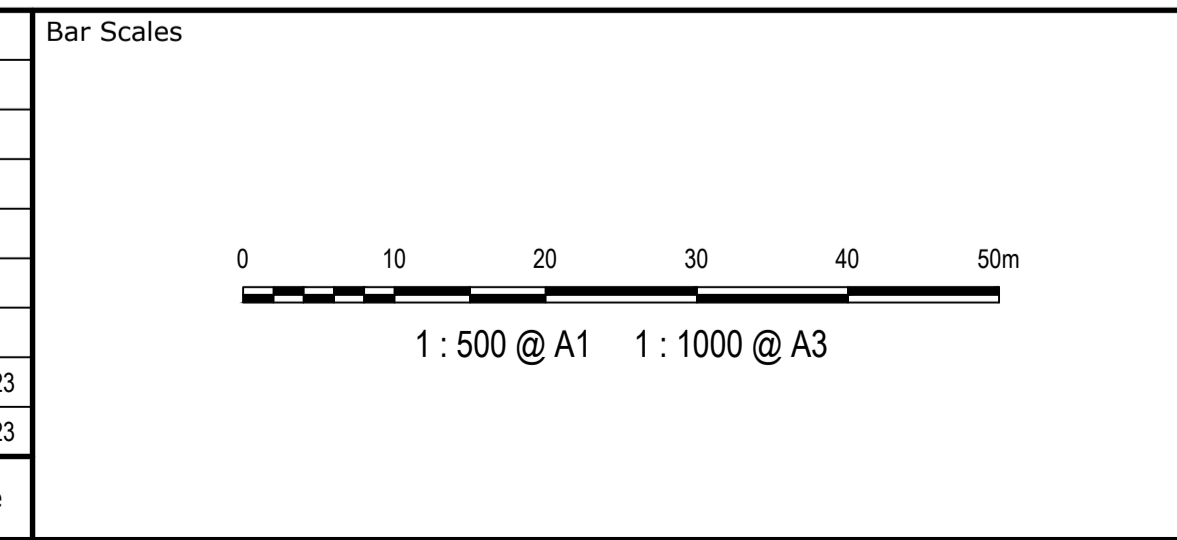
- EXISTING BOUNDARY
- EXISTING CONTOUR
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED RETAINING WALL
- RW
- PROPOSED FINISHED LEVEL
- PROPOSED BATTER
- CUT BATTER 1(V):3(H)
- FILL BATTER 1(V):5(H)
- U.N.O
- PROPOSED BARRIER KERB
- PROPOSED KERB
- PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
- EXISTING STORMWATER (STAGE 02)
- PROPOSED STORMWATER PIT LABEL
- LOCAL STREET PAVEMENT
- COLLECTOR STREET PAVEMENT
- ACCESS STREET PAVEMENT
- PROPOSED CONCRETE FOOTPATH PAVEMENT
- EXISTING SEWER SERVICE
- EXISTING WATER
- EXISTING TELSTRA
- EXISTING STORMWATER
- EXISTING GAS
- EXISTING ELECTRICITY POLE
- EXISTING TELSTRA PIT

LOT 7014  
DP1025605

FOR CONTINUATION REFER TO DRAWING C1050

FOR CONTINUATION REFER TO DRAWING C1052

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client

Scales	1:500	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

GDA2020

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**SITWORKS AND  
STORMWATER  
PLAN  
SHEET 2**

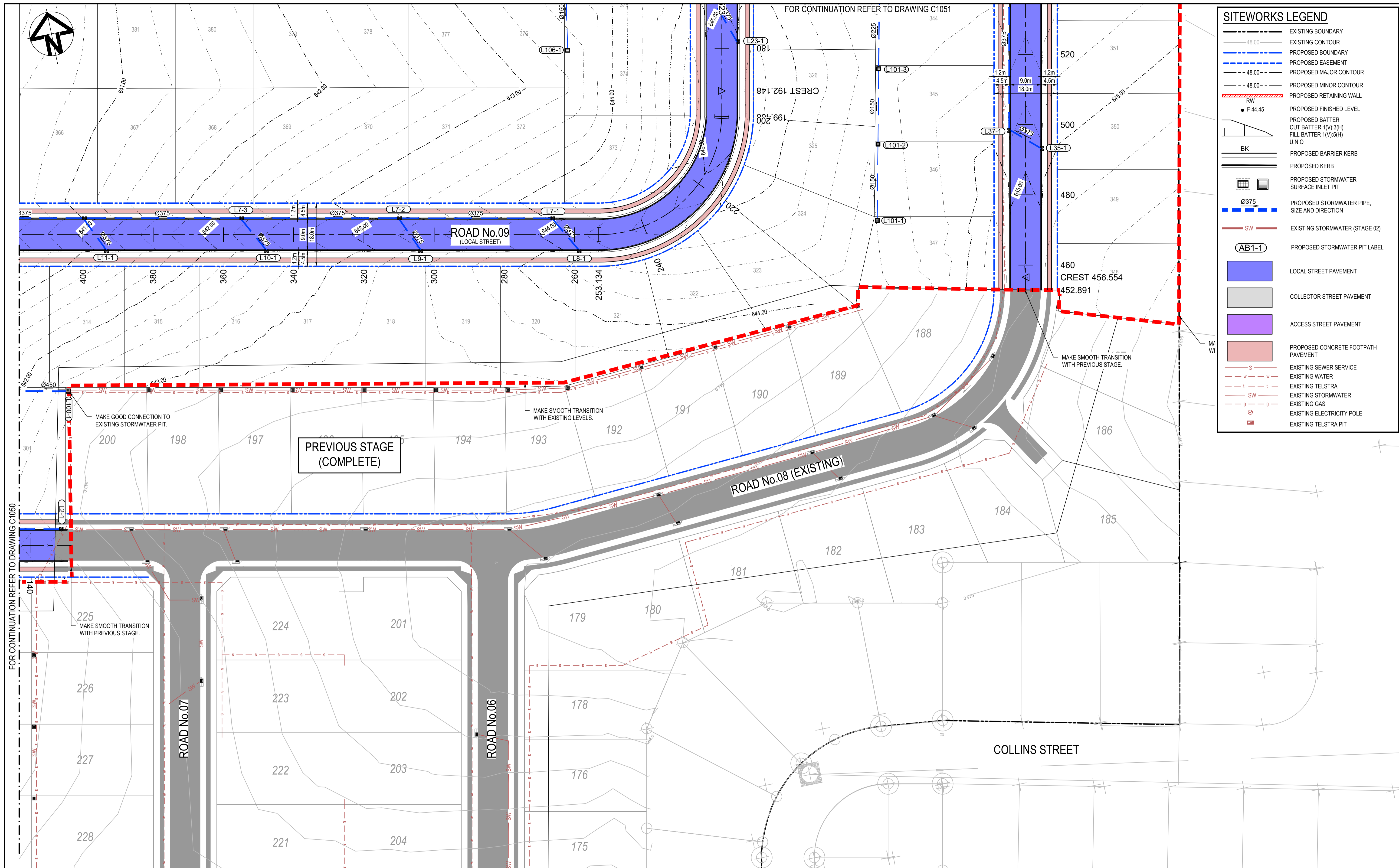
Civil Engineers and Project Managers

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North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
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Status  
**PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1098-C1051**

Issue  
**A**

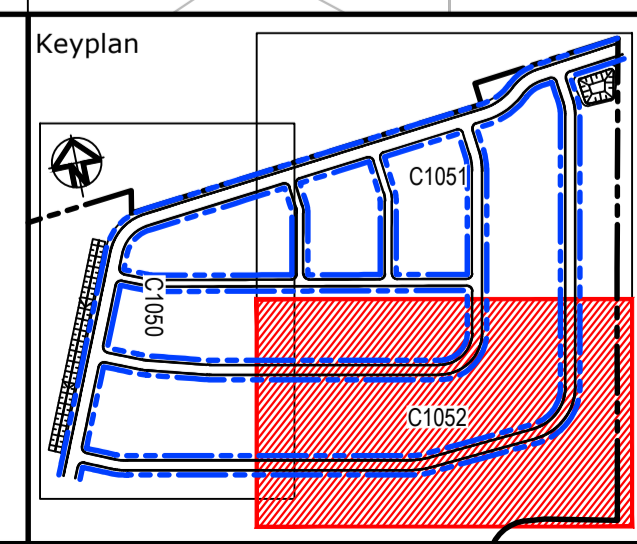
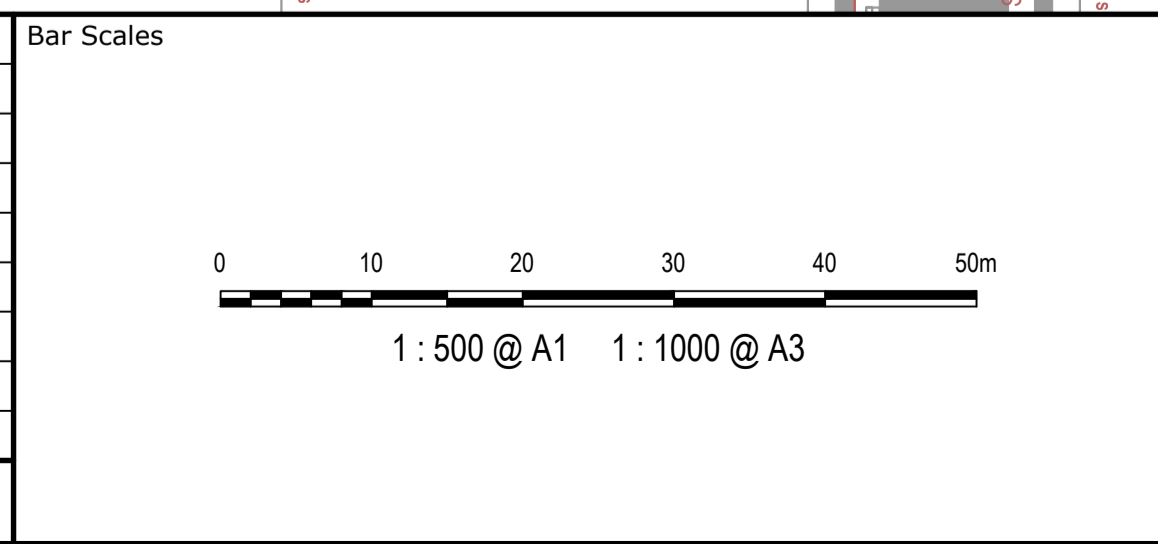


SITWORKS LEGEND	
	EXISTING BOUNDARY
	EXISTING CONTOUR
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED RETAINING WALL
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER CUT BATTER 1(V):3(H) FILL BATTER 1(V):5(H) U.N.O
	PROPOSED BARRIER KERB
	PROPOSED KERB
	PROPOSED STORMWATER SURFACE INLET PIT
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	EXISTING STORMWATER (STAGE 02)
	PROPOSED STORMWATER PIT LABEL
	LOCAL STREET PAVEMENT
	COLLECTOR STREET PAVEMENT
	ACCESS STREET PAVEMENT
	PROPOSED CONCRETE FOOTPATH PAVEMENT
	EXISTING SEWER SERVICE
	EXISTING WATER
	EXISTING TELSTRA
	EXISTING STORMWATER
	EXISTING GAS
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT

FOR CONTINUATION REFER TO DRAWING C1050

FOR CONTINUATION REFER TO DRAWING C1051

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Scales	1:500	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

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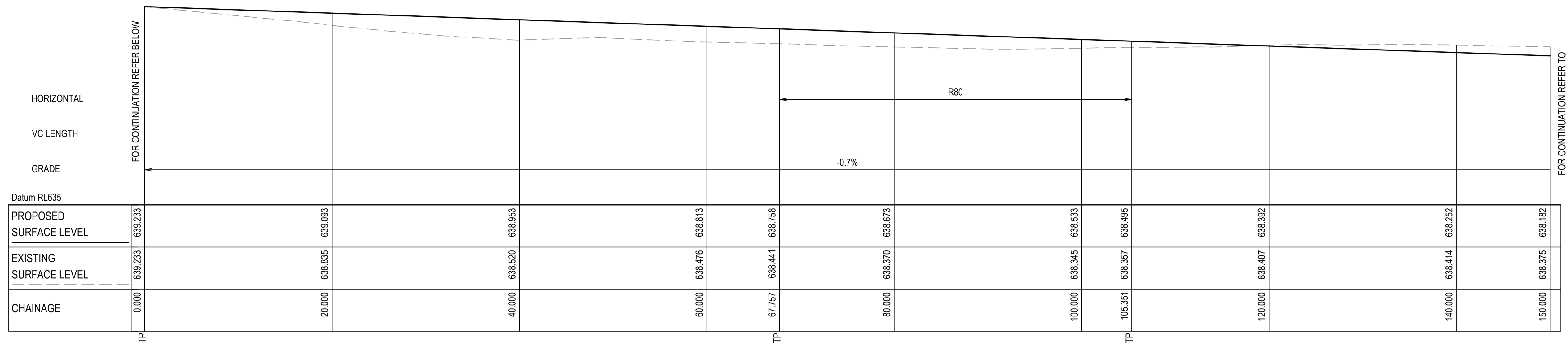
Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**SITWORKS AND  
STORMWATER  
PLAN  
SHEET 3**

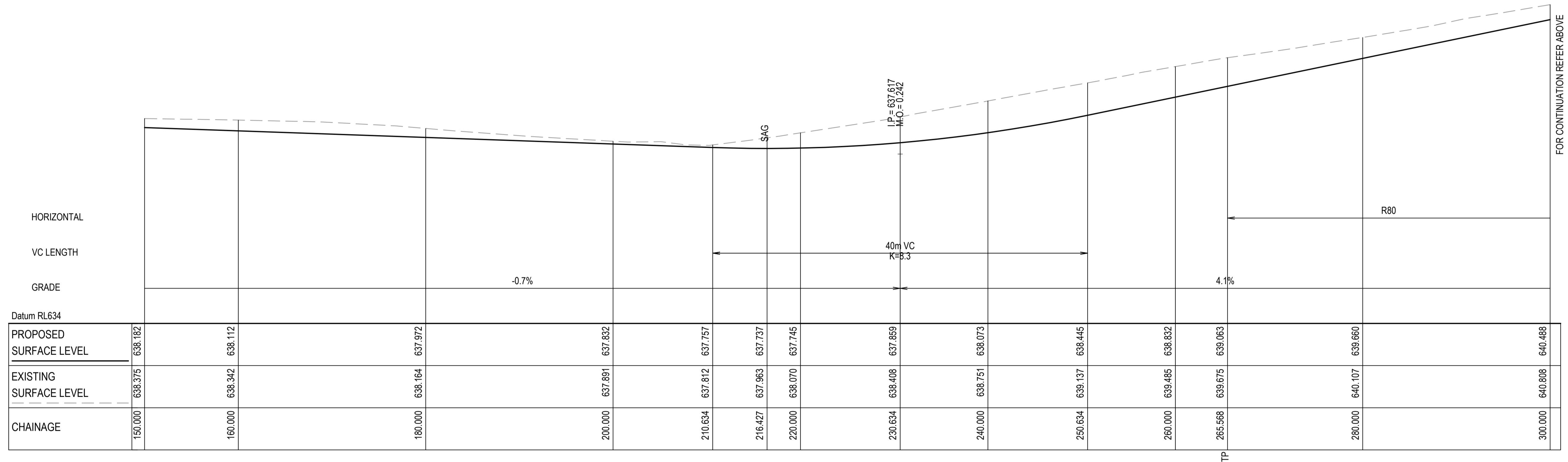
Civil Engineers and Project Managers

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ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
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info@atl.net.au

Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1052	Issue
		A

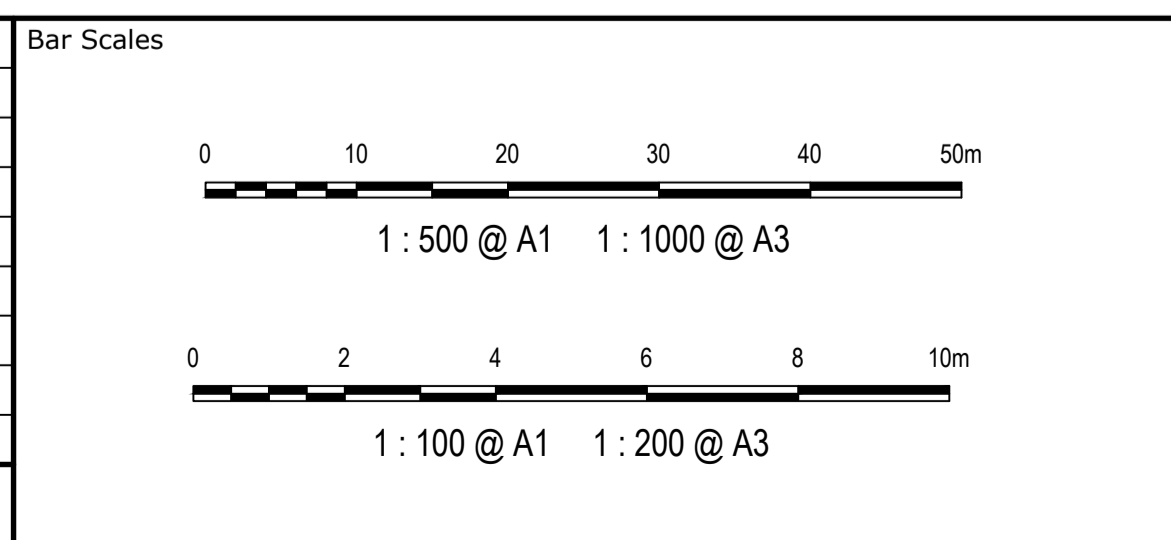


ROAD 13 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
1:100 VERT.



ROAD 13 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
1:100 VERT.

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client



AS SHOWN	Drawn	NT
	Designed	BK
Grid	Checked	JC
Height Datum	Approved	

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**ROADWORKS  
LONGITUDINAL  
SECTIONS  
SHEET 1**

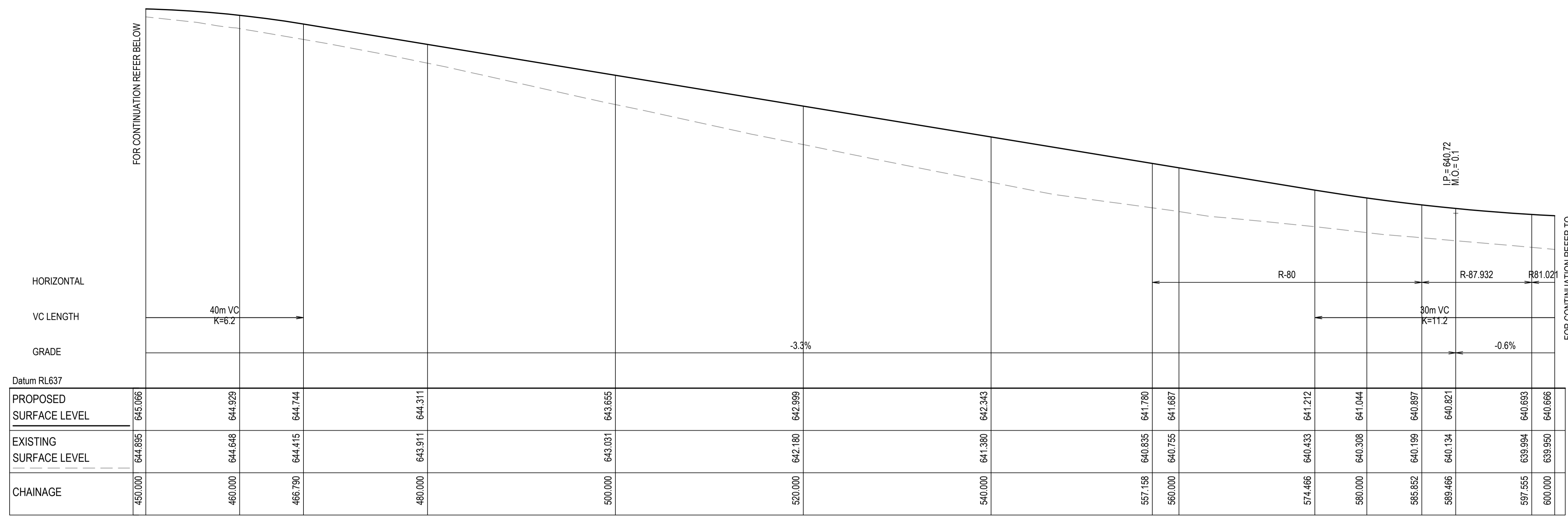
Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
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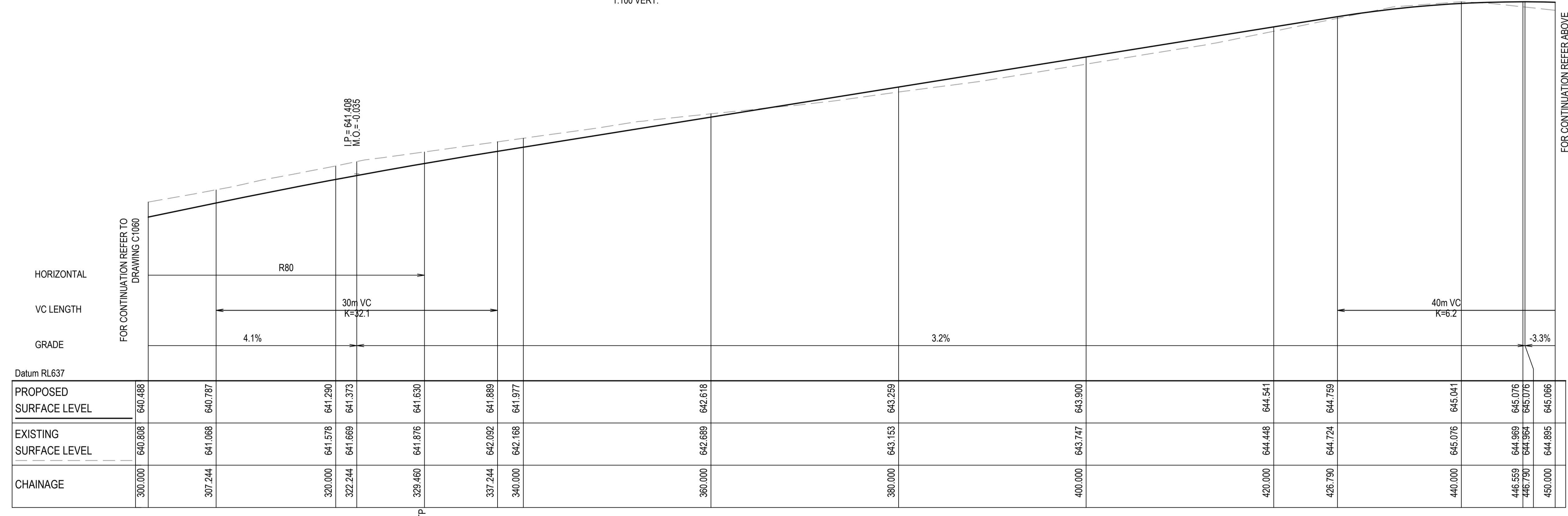
Status  
**PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1098-C1060**

Issue  
**A**

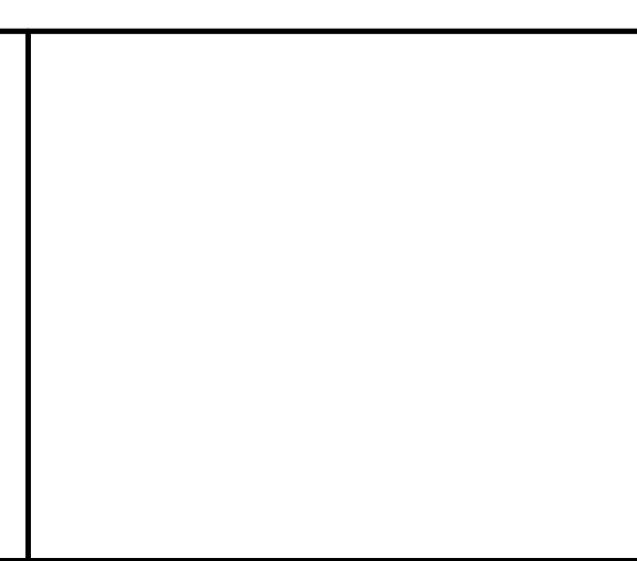
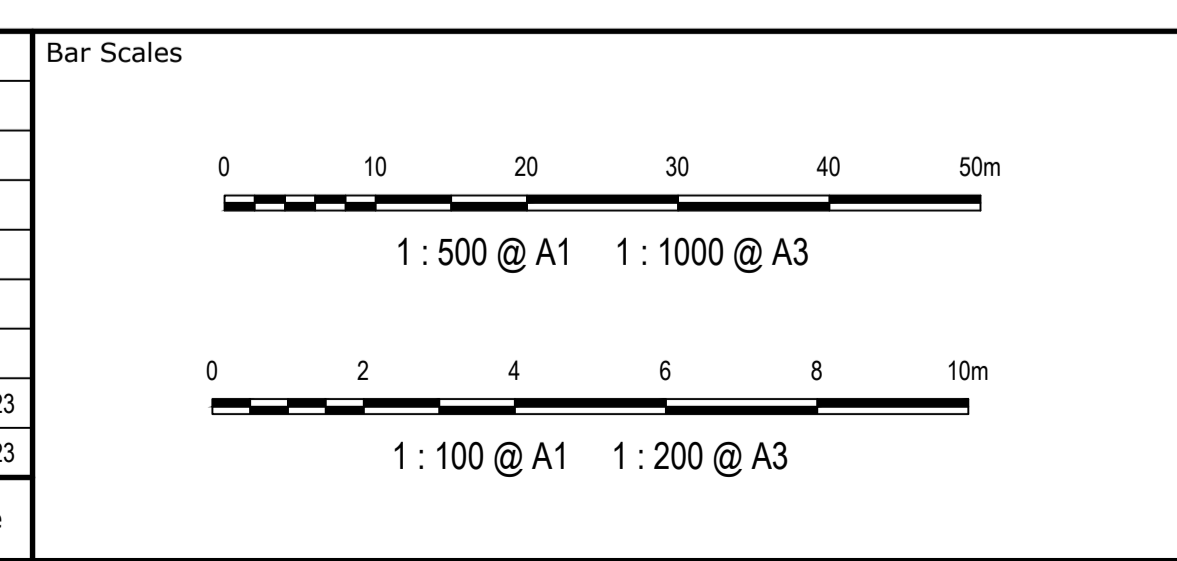


ROAD 13 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
1:100 VERT.



ROAD 13 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
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Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC	
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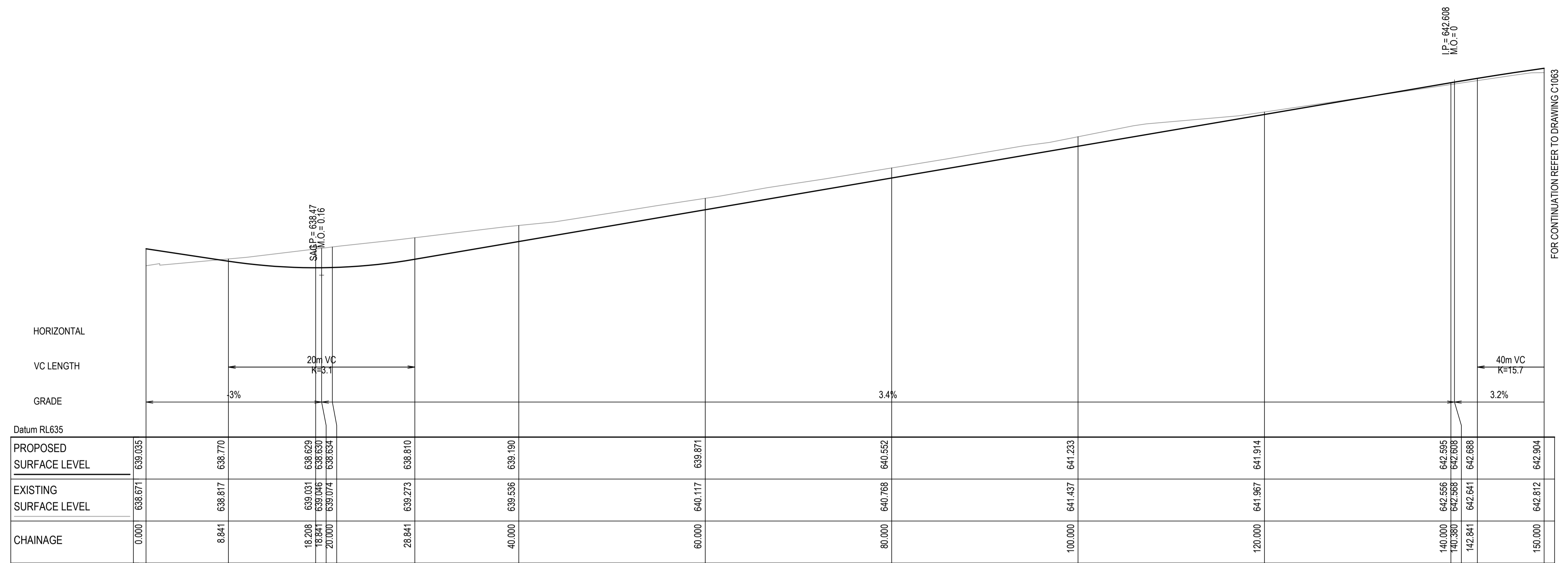
AS SHOWN	Drawn	NT
GDA2020	Designed	BK
AHD	Checked	JC
	Approved	

GDA2020

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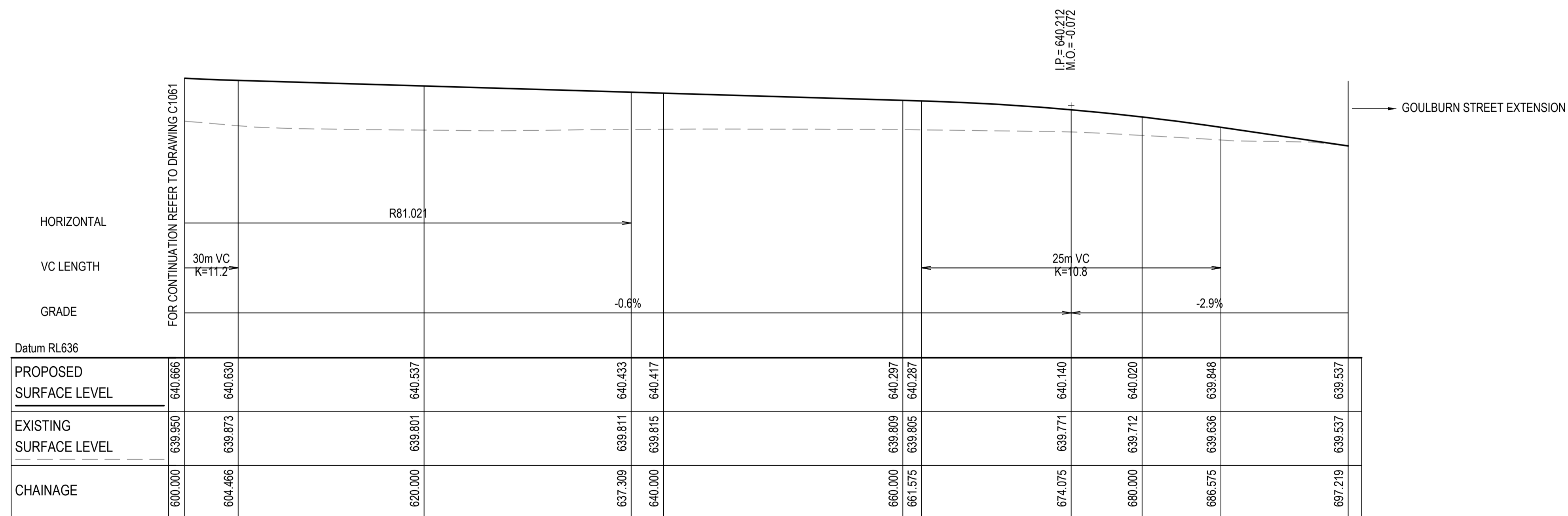
Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	ROADWORKS LONGITUDINAL SECTIONS SHEET 2

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1098-C1061
Issue	A1



ROAD 08 LONGITUDINAL SECTION

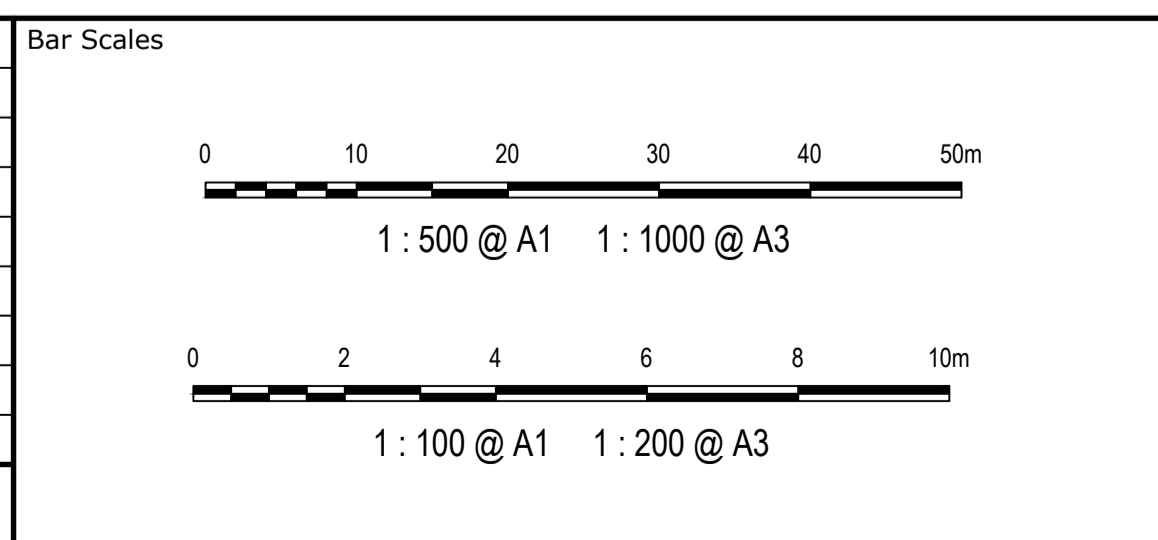
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ROAD 13 LONGITUDINAL SECTION

SCALE 1:500 HORI.  
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Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client
FDC

Scales	Drawn	NT
AS SHOWN	Designed	BK
Grid GDA2020	Checked	JC
Height Datum AHD	Approved	

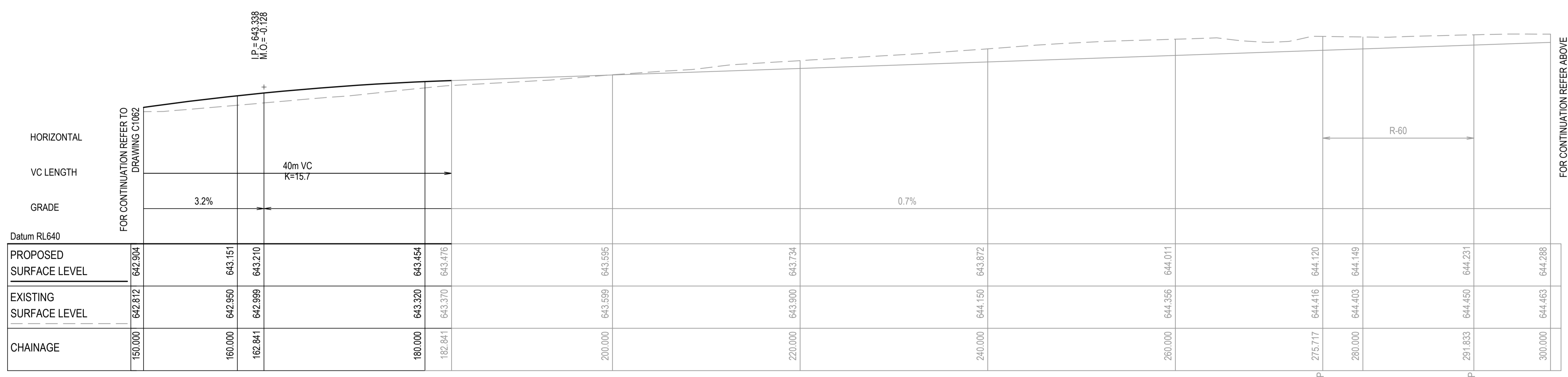
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Project	Title
EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	ROADWORKS LONGITUDINAL SECTIONS SHEET 3

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	Issue
PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	Issue
23-1098-C1062	A

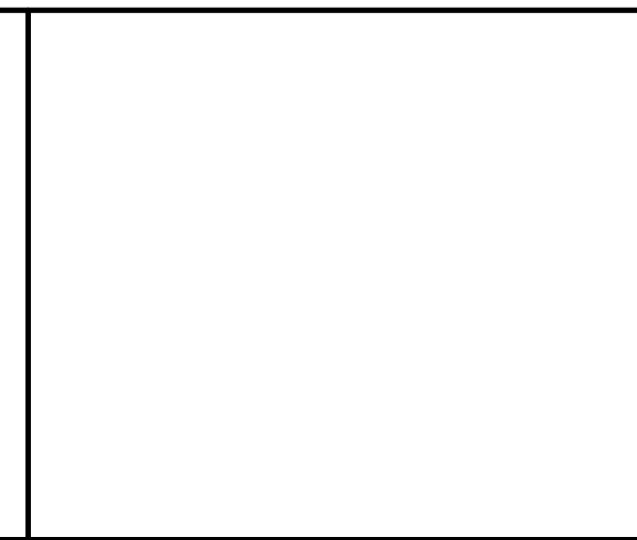
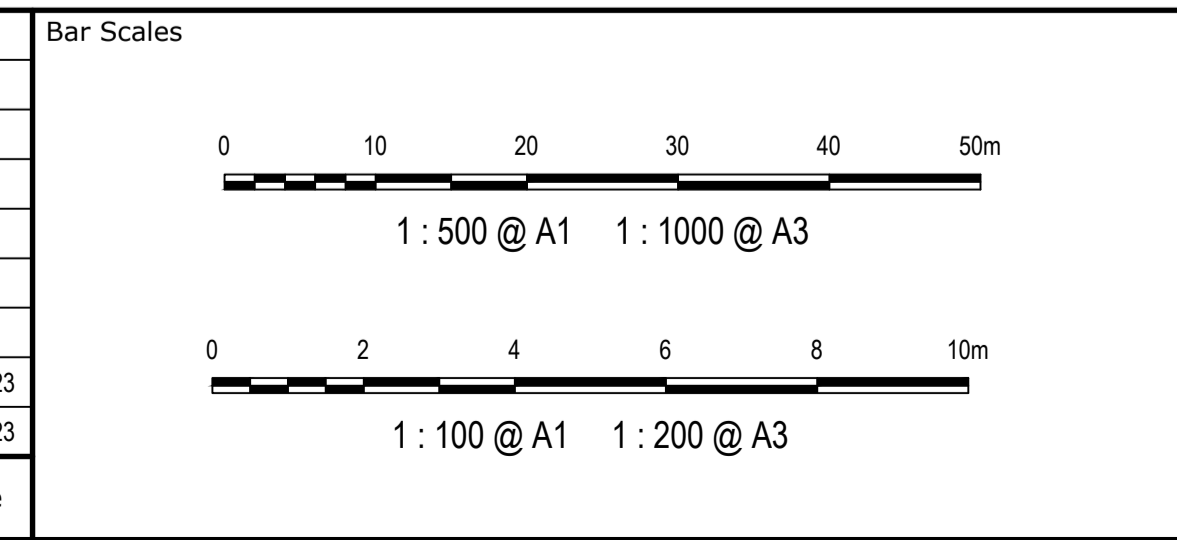


ROAD 08 LONGITUDINAL SECTION  
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ROAD 08 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
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Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client
FDC

Scales	Drawn	NT
AS SHOWN	Designed	BK
Grid GDA2020	Checked	JC
Height Datum AHD	Approved	

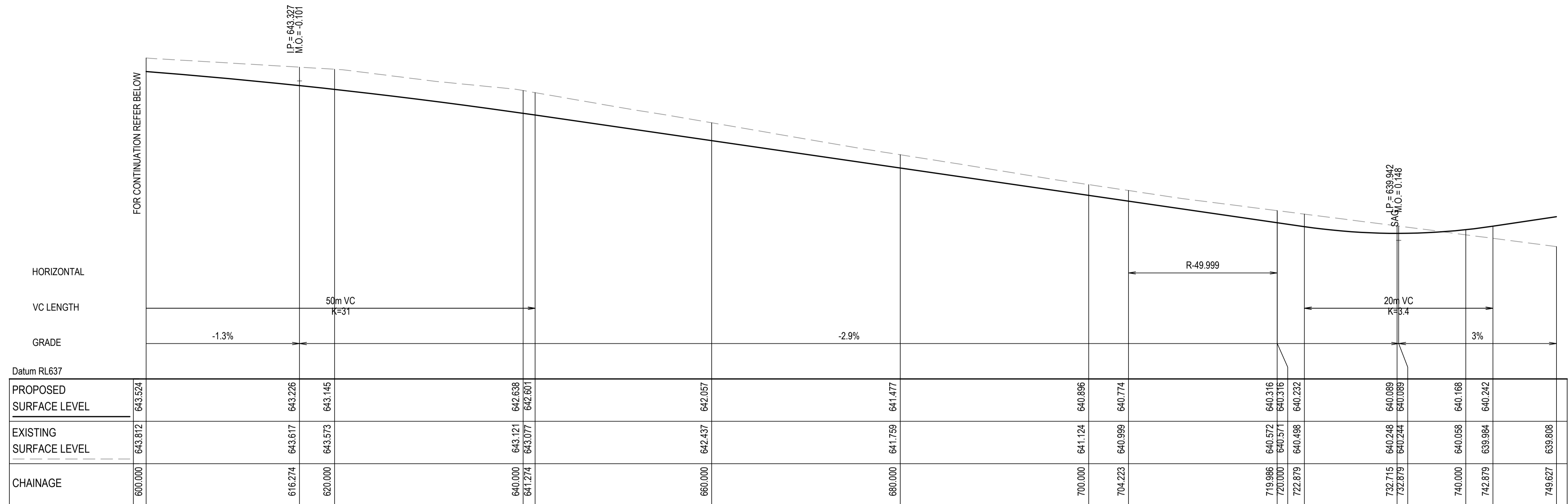
Project	Title
EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	ROADWORKS LONGITUDINAL SECTIONS SHEET 4

Civil Engineers and Project Managers

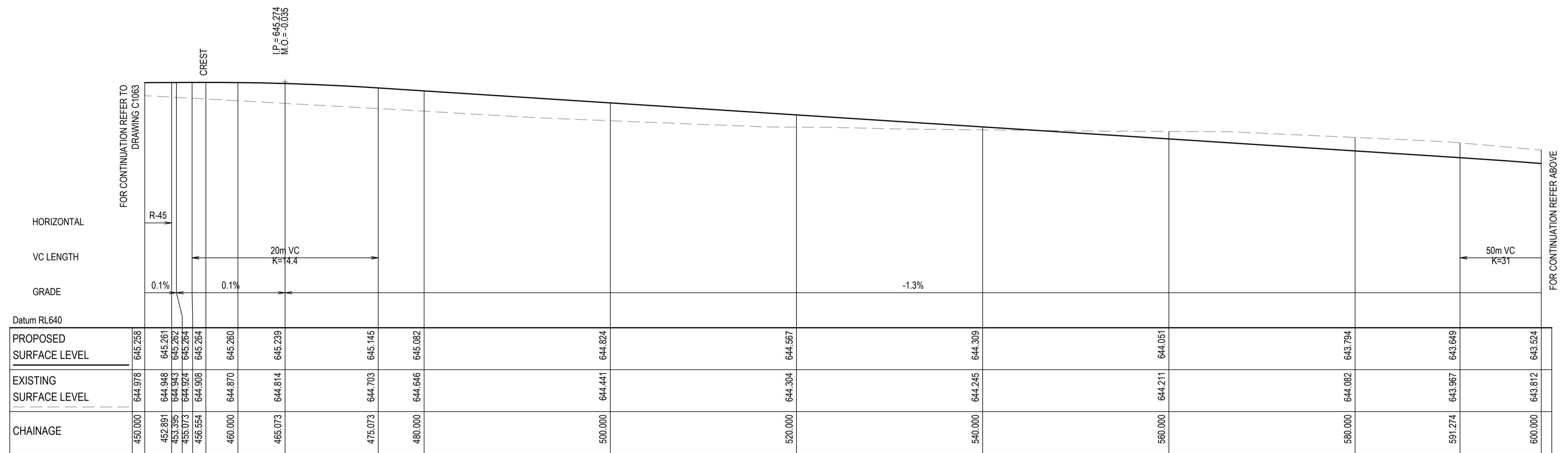
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
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info@atl.net.au

Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1063	Issue
		A



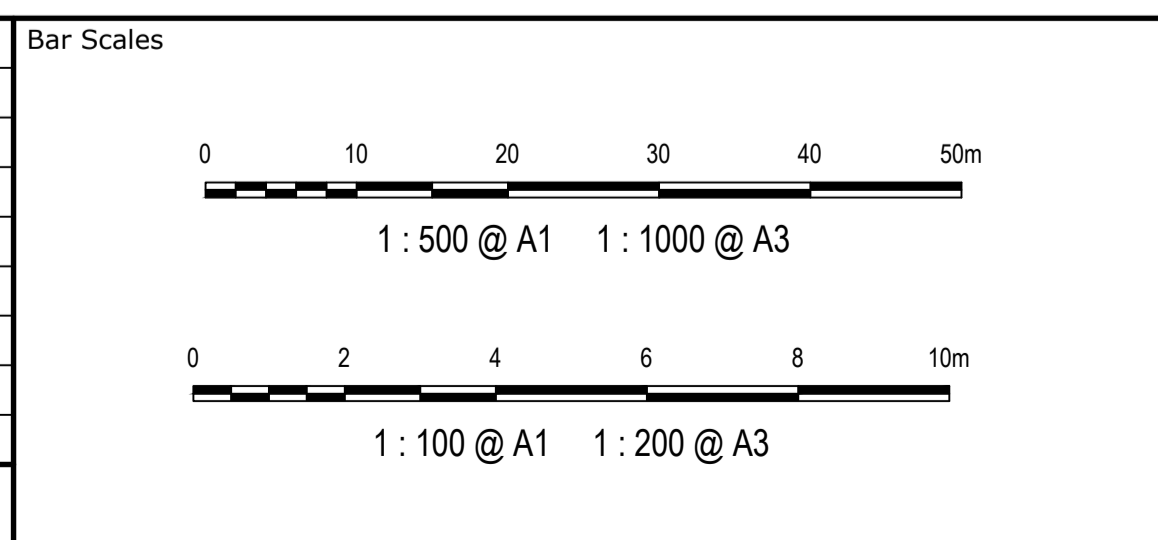


ROAD 08 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
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ROAD 08 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
1:100 VERT.

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23

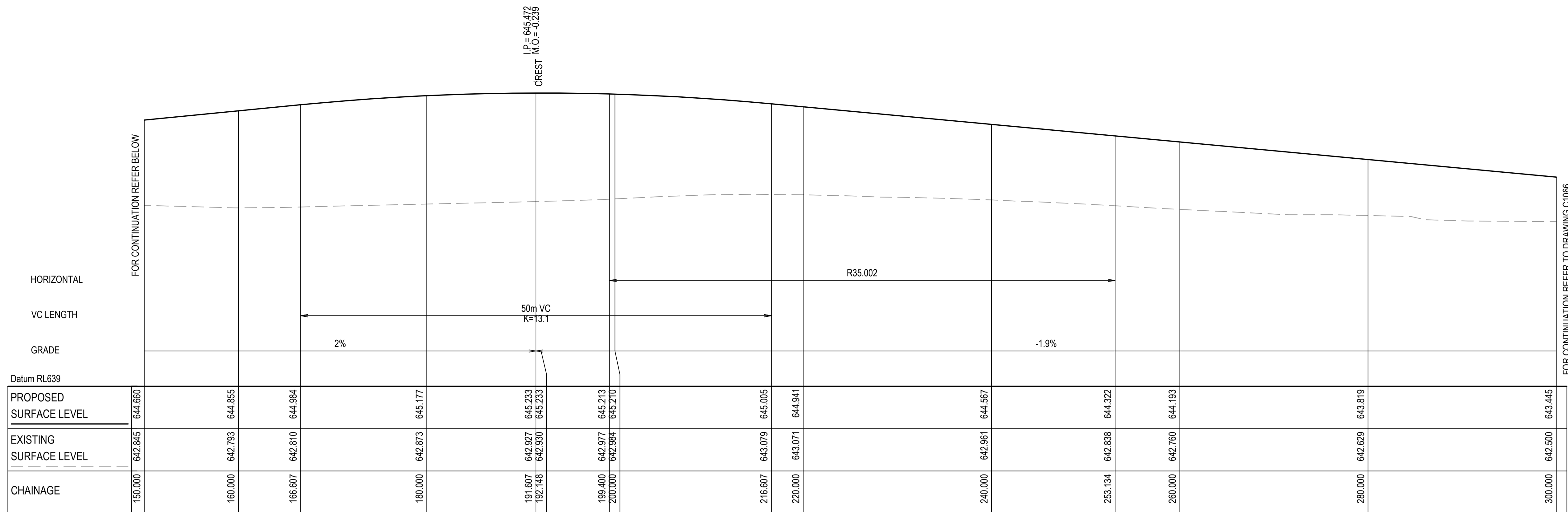


Client	FDC
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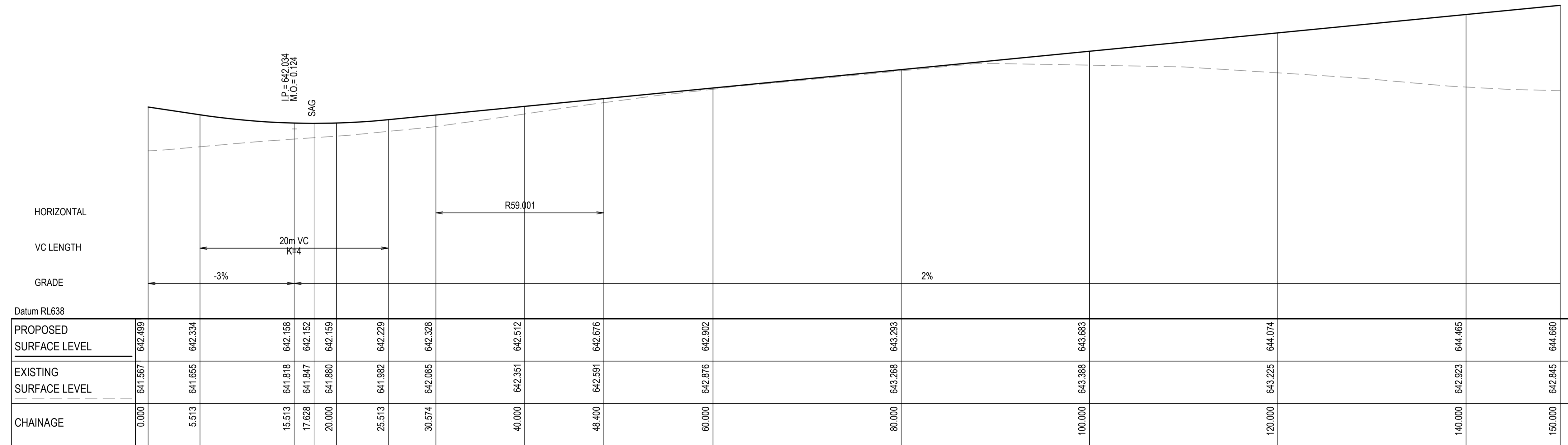
Scalcs	AS SHOWN	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	
GDA2020			
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Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	ROADWORKS LONGITUDINAL SECTIONS SHEET 5

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	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1098-C1064
Issue	A

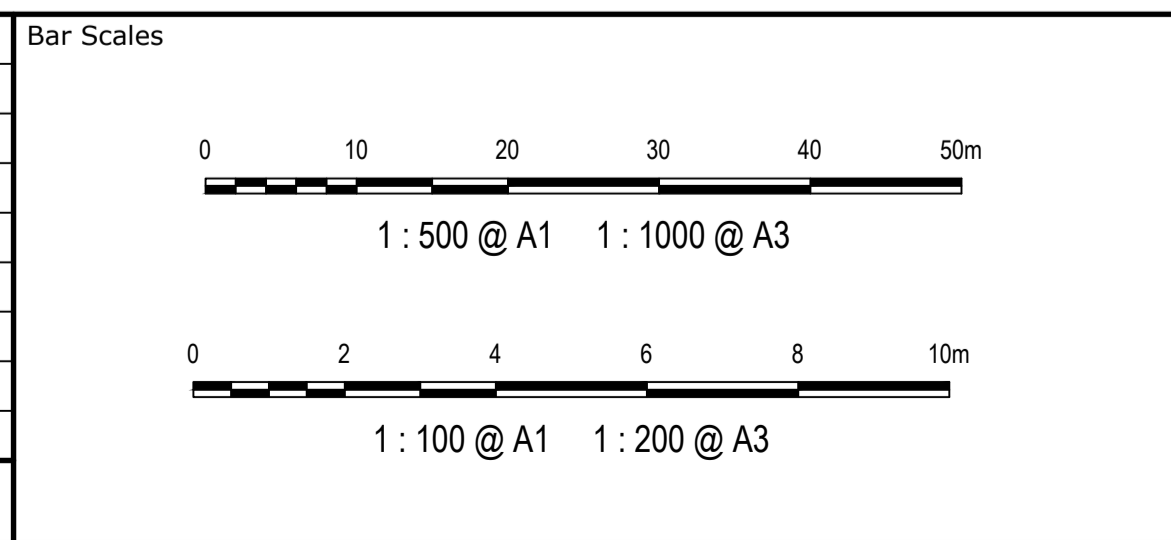


ROAD 09 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
1:100 VERT.



ROAD 09 LONGITUDINAL SECTION  
SCALE 1:500 HORI.  
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Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC
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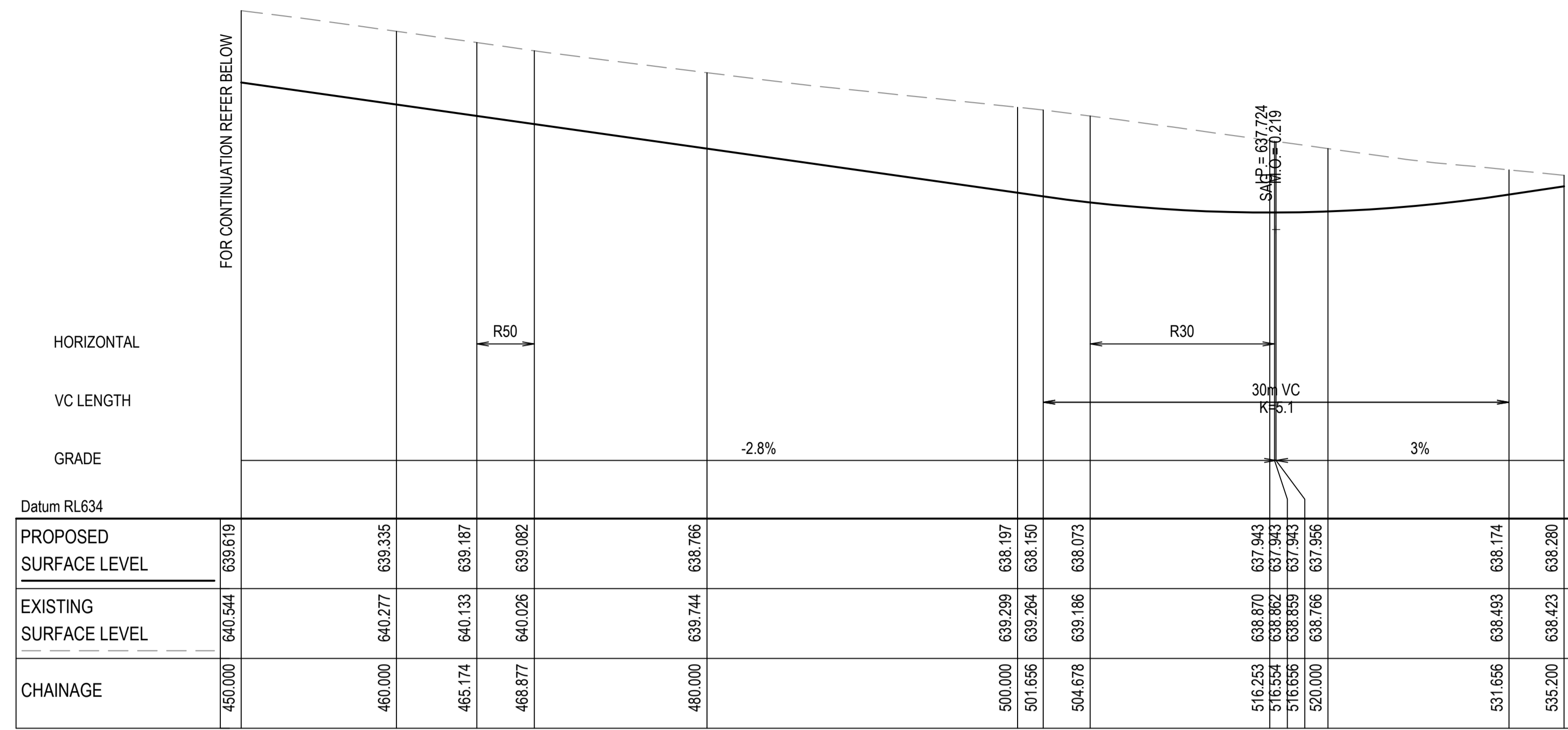
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Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	
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Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	ROADWORKS LONGITUDINAL SECTIONS SHEET 6

Civil Engineers and Project Managers

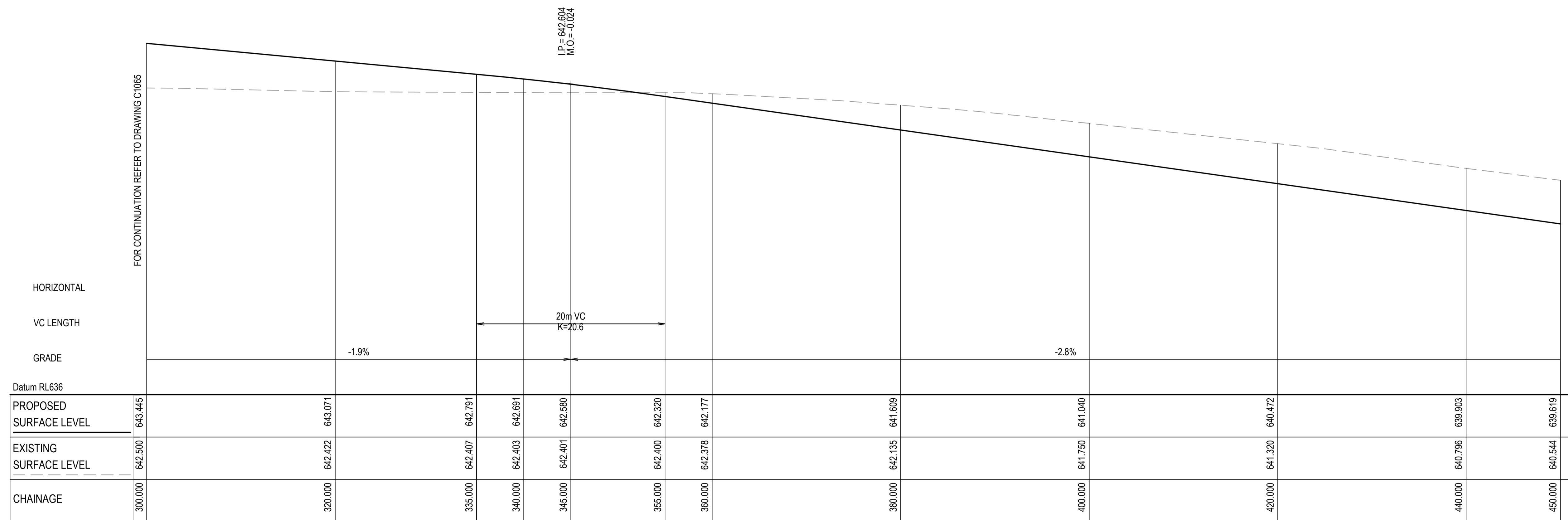
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1065	Issue
		A



ROAD 09 LONGITUDINAL SECTION

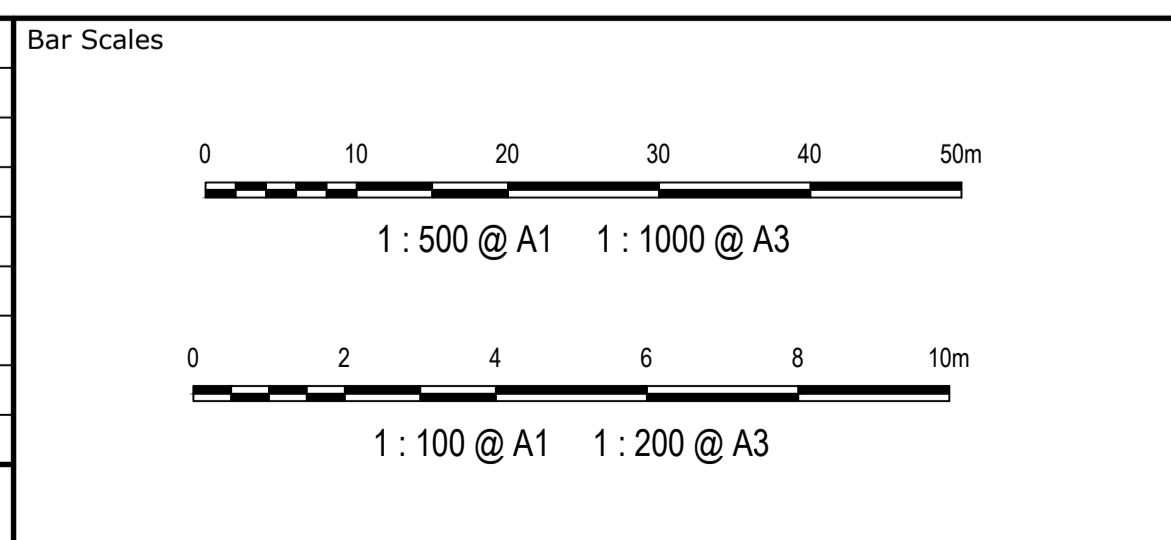
SCALE 1:500 HORI.  
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ROAD 09 LONGITUDINAL SECTION

SCALE 1:500 HORI.  
1:100 VERT.

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Scales	Drawn	NT
AS SHOWN	Designed	BK
Grid	Checked	JC
Height Datum	Approved	

GDA2020

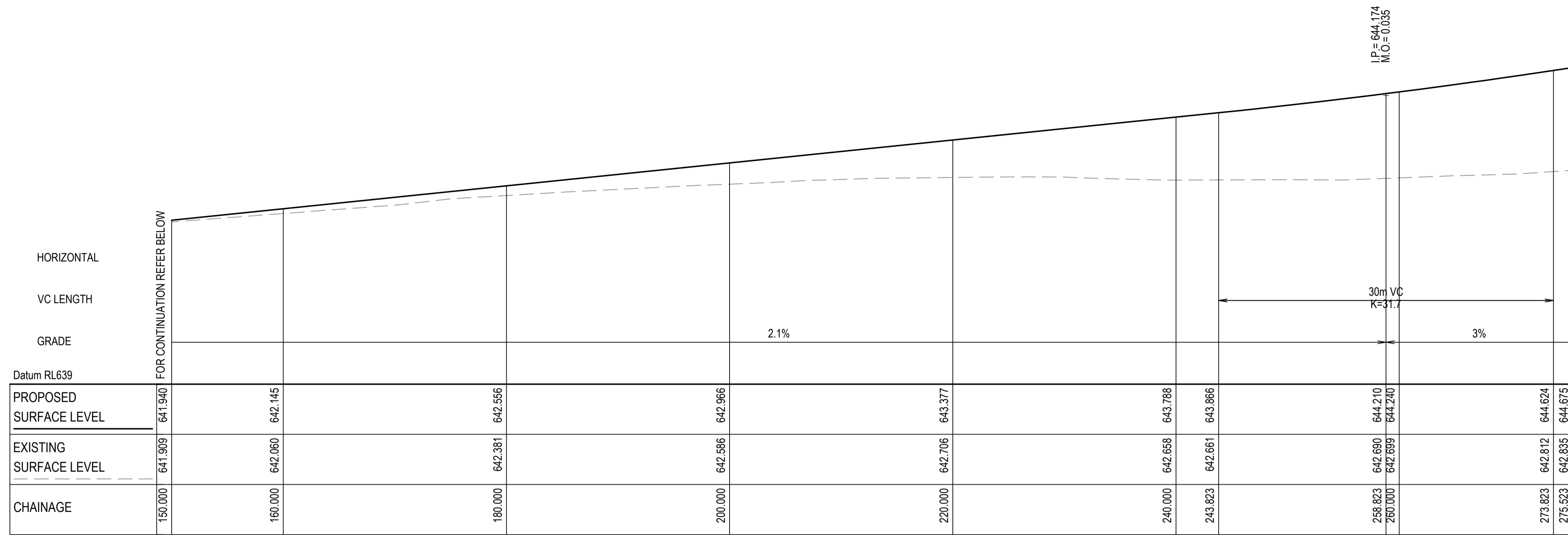
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Project	Title
EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	ROADWORKS LONGITUDINAL SECTIONS SHEET 7

Civil Engineers and Project Managers

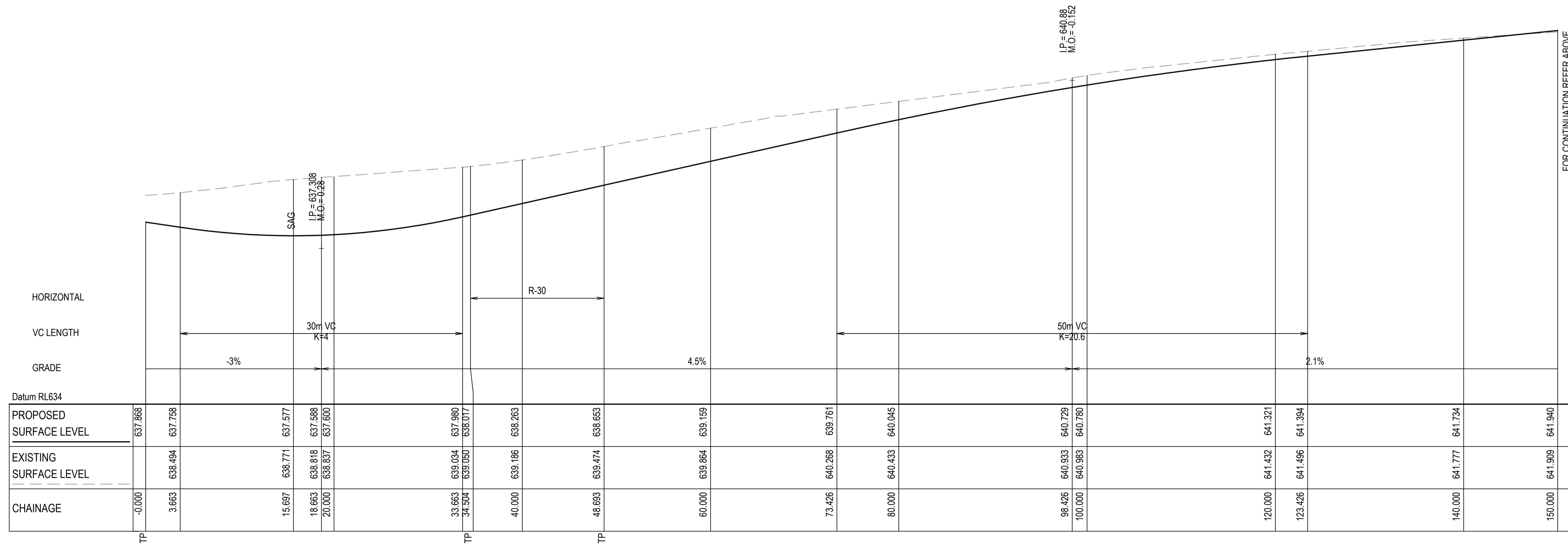
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
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Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1066	Issue
		A



ROAD 10 LONGITUDINAL SECTION

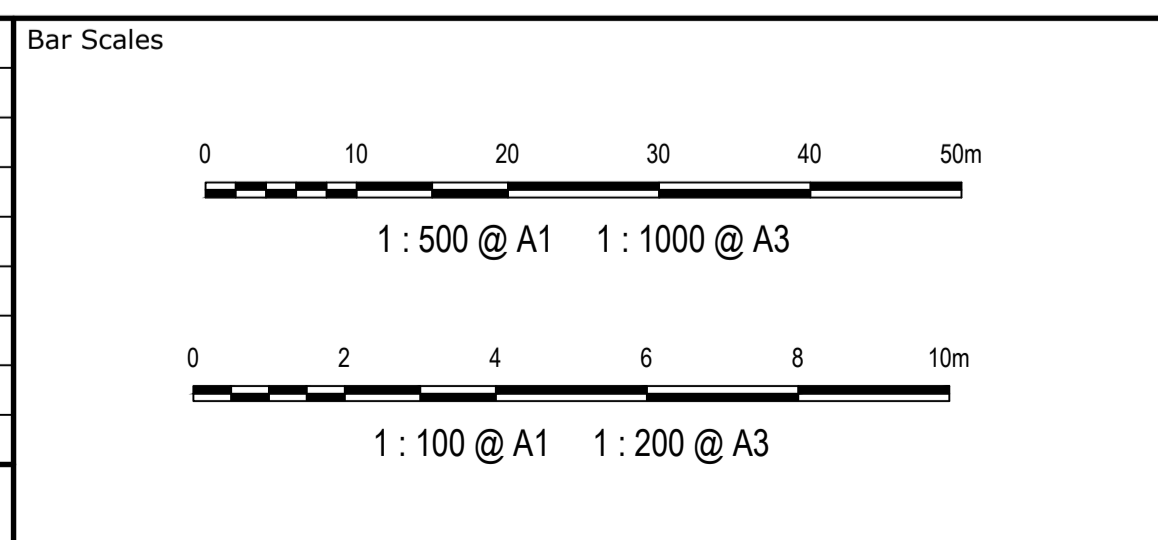
SCALE 1:500 HORI.  
1:100 VERT.



ROAD 10 LONGITUDINAL SECTION

SCALE 1:500 HORI.  
1:100 VERT.

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23

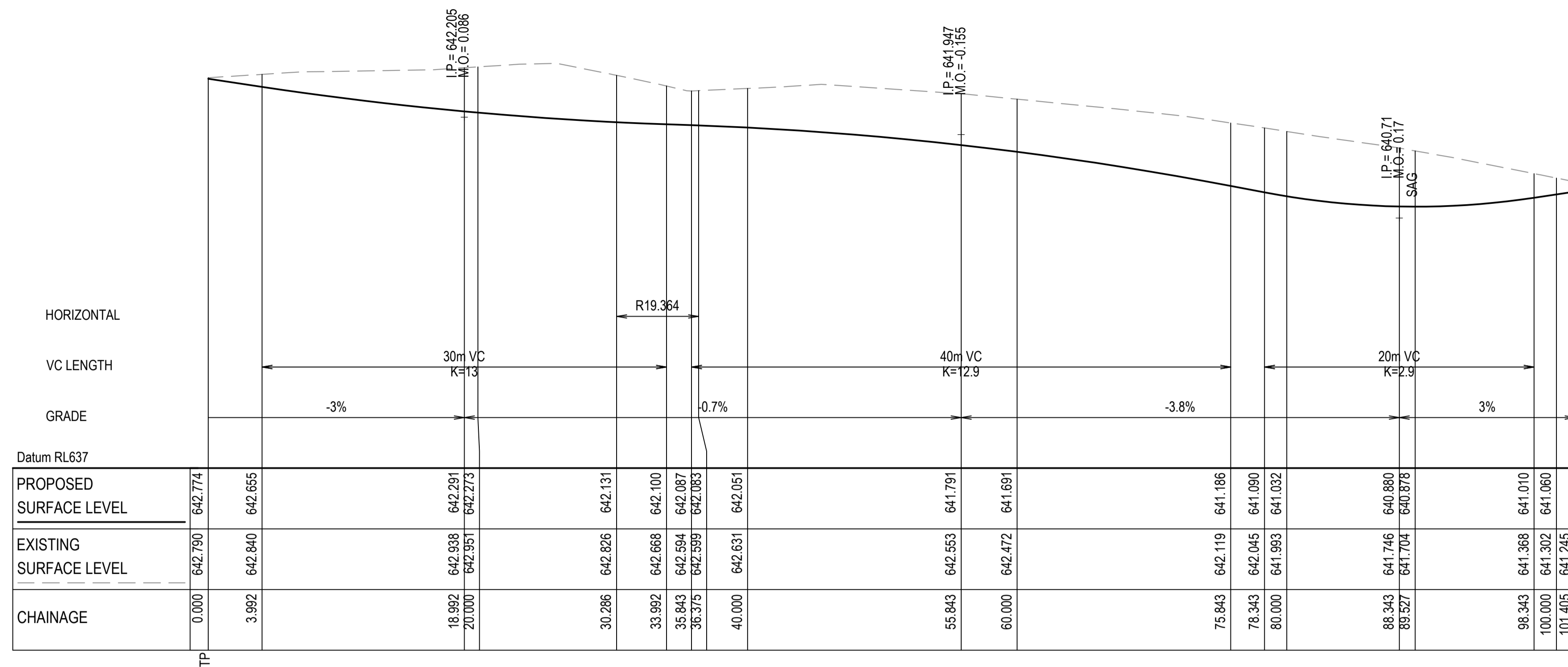


Client	FDC
--------	-----

Scales	AS SHOWN	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	
<small>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</small>			

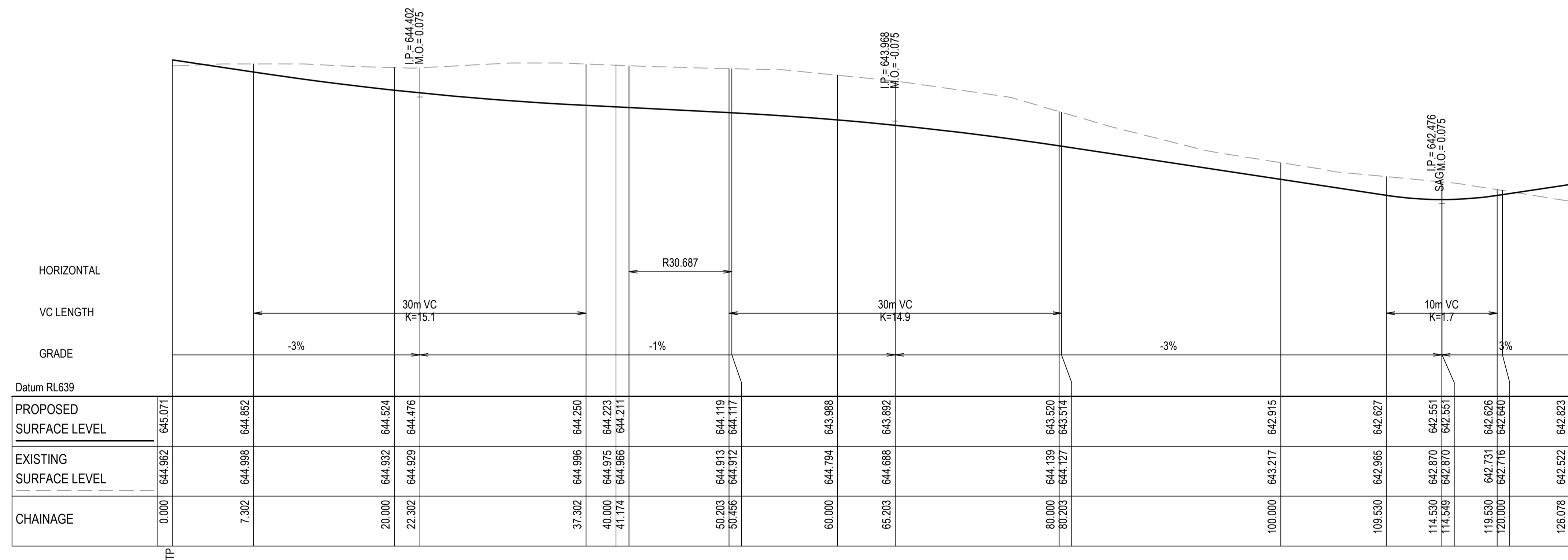
Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	ROADWORKS LONGITUDINAL SECTIONS SHEET 8

Civil Engineers and Project Managers	
<small>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</small>	
Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1098-C1067
Issue	A



ROAD 12 LONGITUDINAL SECTION

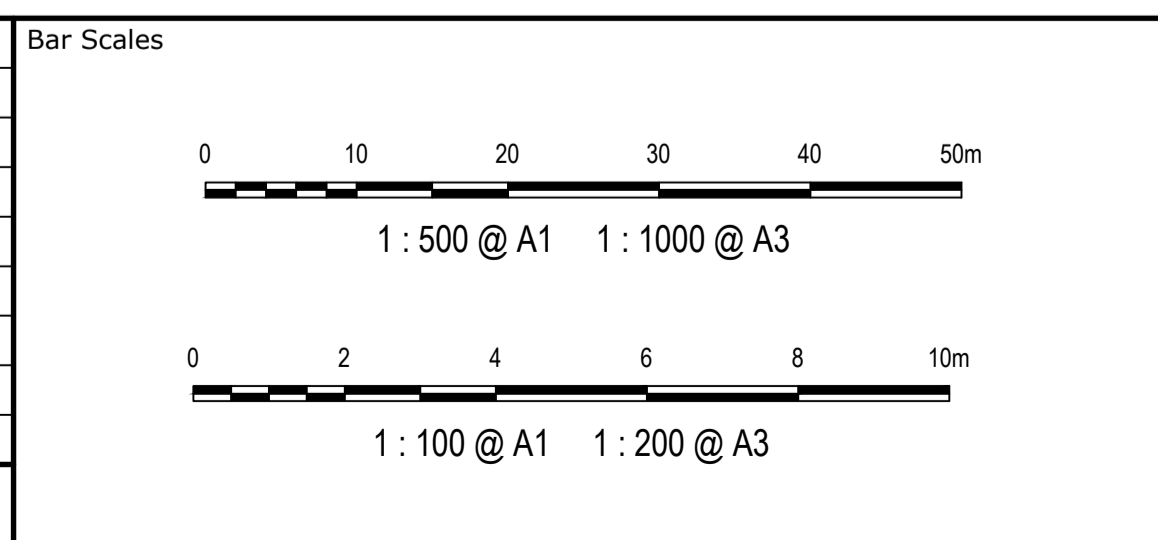
SCALE 1:500 HORI.  
1:100 VERT.



ROAD 11 LONGITUDINAL SECTION

SCALE 1:500 HORI.  
1:100 VERT.

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client

AS SHOWN	Drawn	NT
Grid GDA2020	Designed	BK
Height Datum AHD	Checked	JC
	Approved	

GDA2020

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Project

EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN

Title

ROADWORKS  
LONGITUDINAL  
SECTIONS  
SHEET 9

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

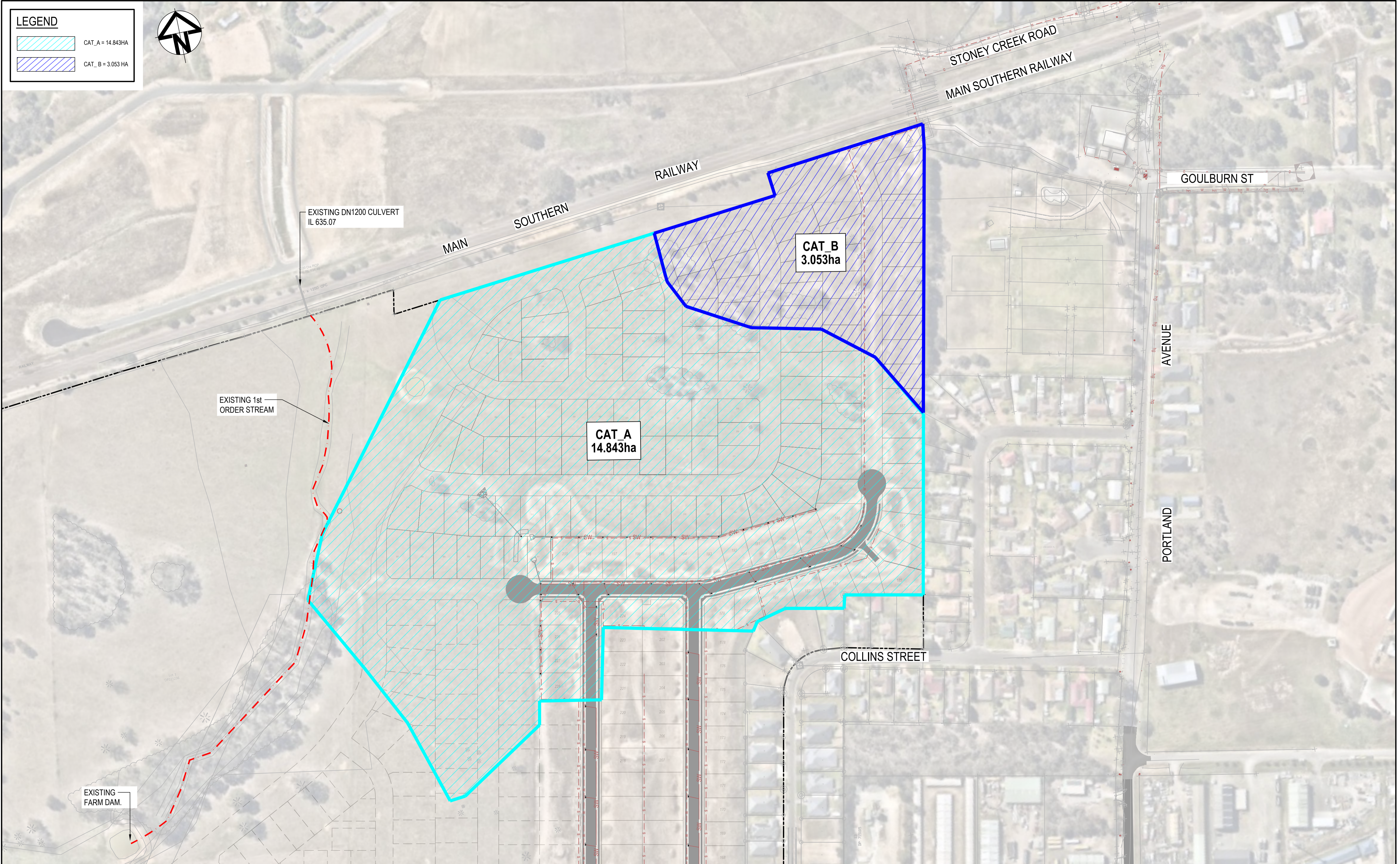
Status

PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION

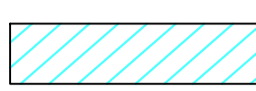
Project - Drawing No.  
23-1098-C1068

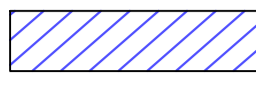
Issue

A1  
A



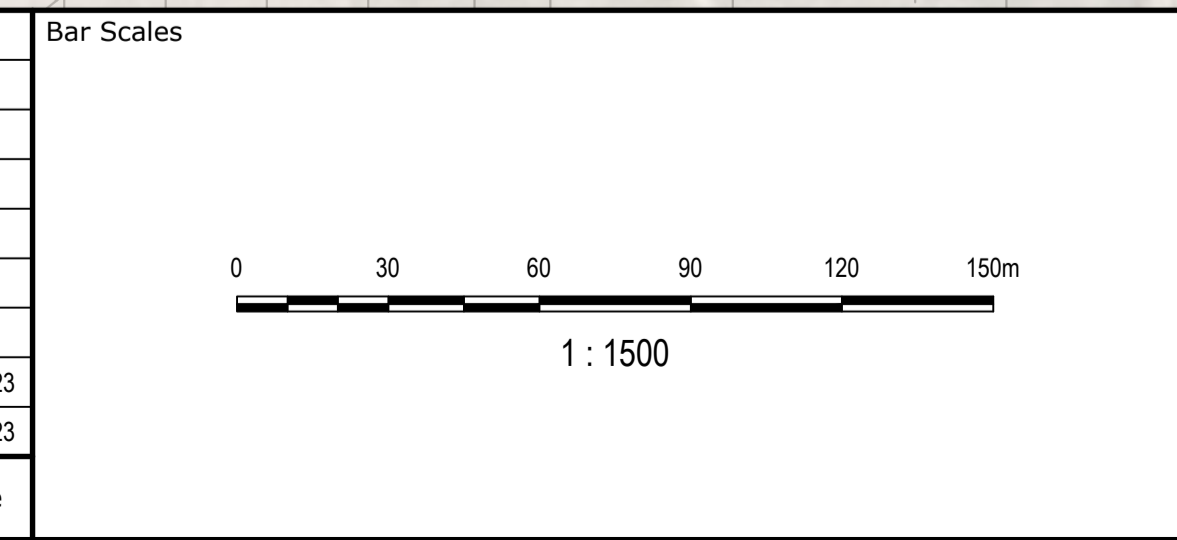
**LEGEND**

 CAT\_A = 14.843HA

 CAT\_B = 3.053 HA




Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client



Scale	1:1500	Drawn	NT
Grid	GDA2020	Designed	BK
Height Datum	AHD	Checked	JC
		Approved	



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Project **EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title **STORMWATER DRAINAGE  
CATCHMENT PLAN  
(PRE-DEVELOPED)**

Civil Engineers and Project Managers

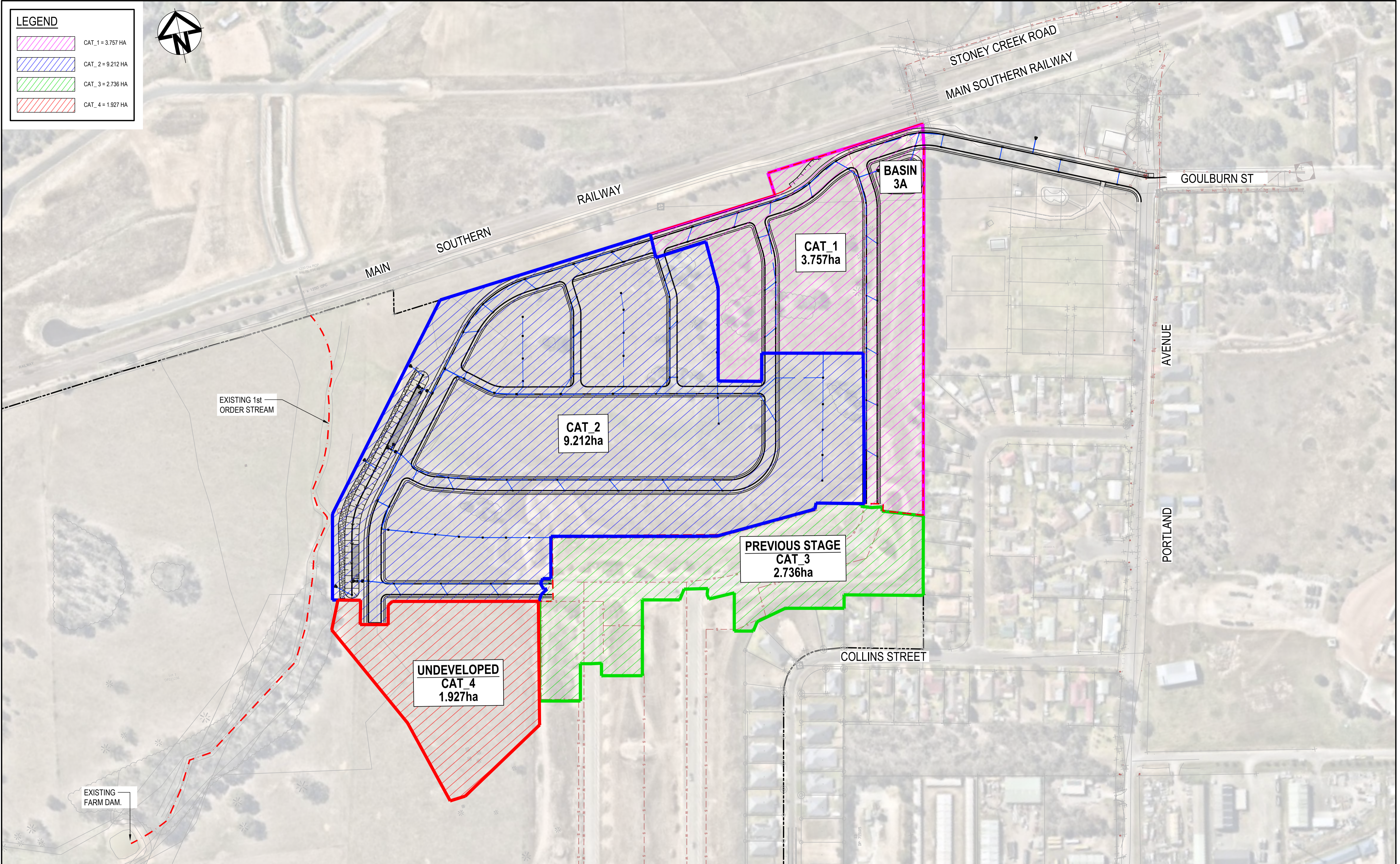
**at&l**

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

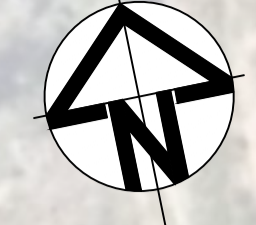
Status **PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No. **23-1098-C1070**

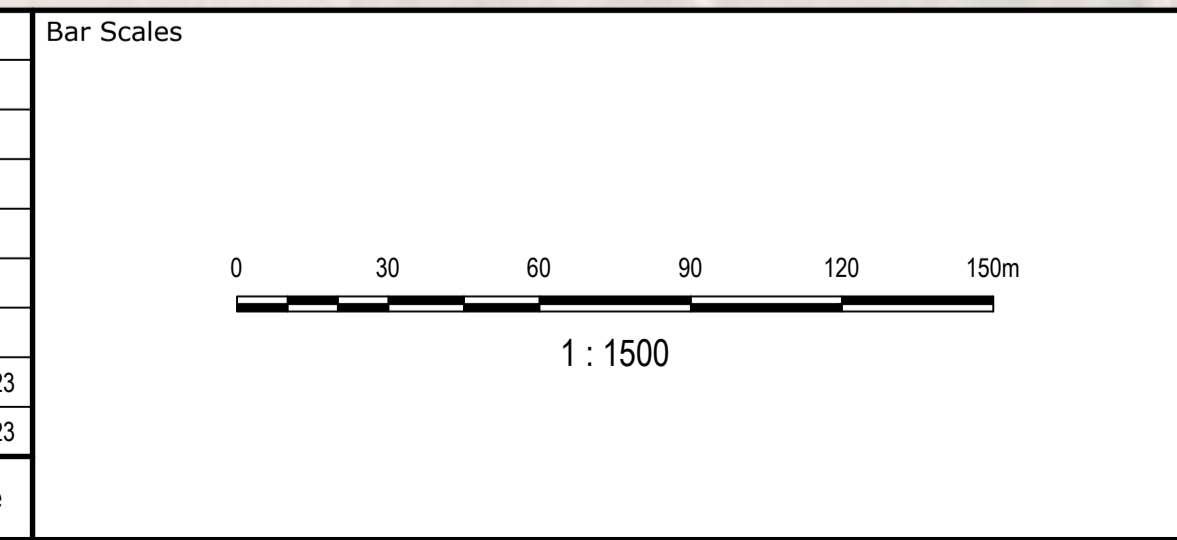
<b>A1</b>	Issue
<b>A</b>	



LEGEND	
	CAT_1 = 3.757 HA
	CAT_2 = 9.212 HA
	CAT_3 = 2.736 HA
	CAT_4 = 1.927 HA



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client



Scale	1:1500	Drawn	NT
Grid	GDA2020	Designed	BK
Height Datum	AHD	Checked	JC
		Approved	

Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

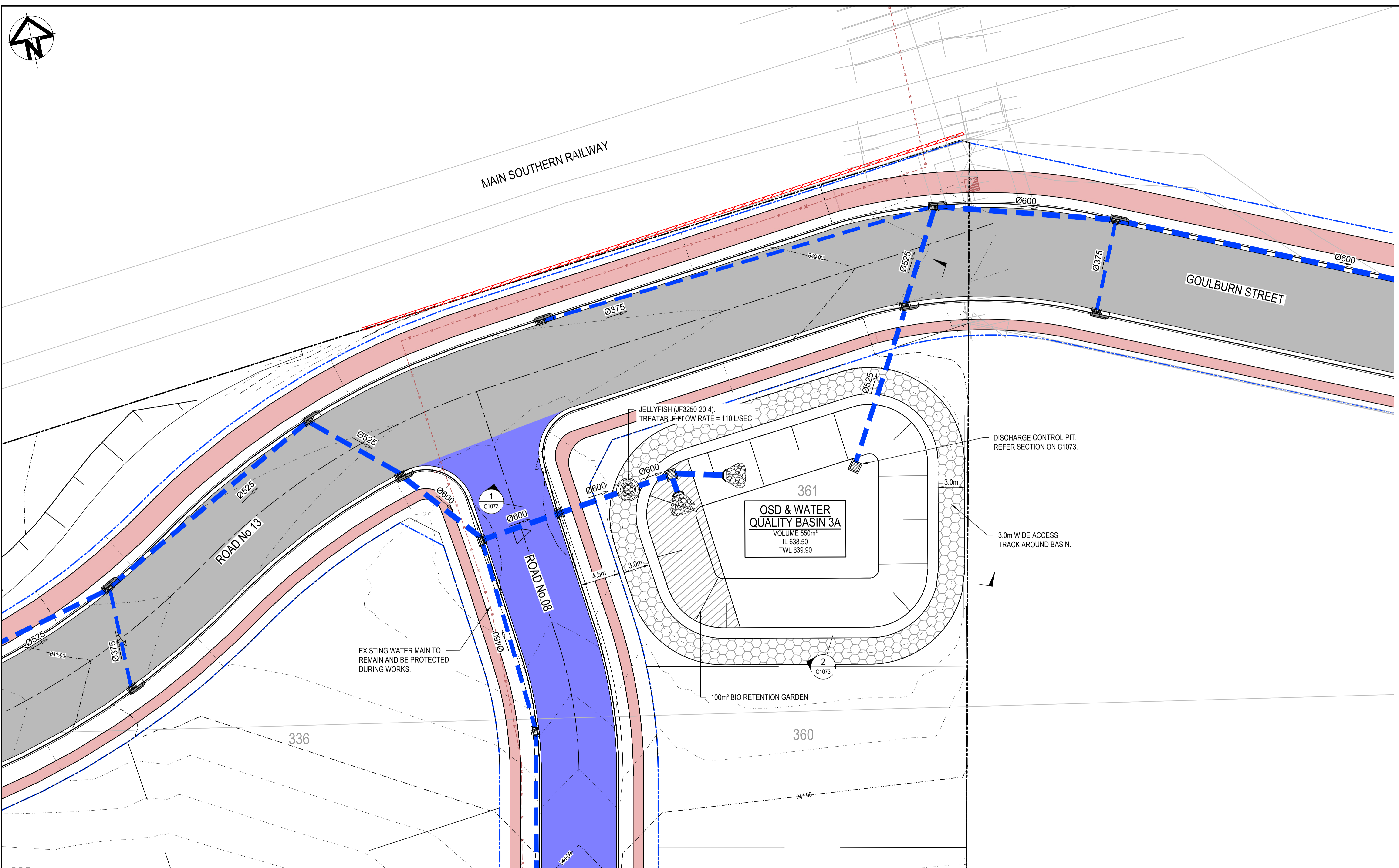
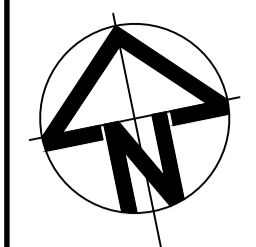
Title  
**STORMWATER DRAINAGE  
CATCHMENT PLAN  
(POST-DEVELOPED)**

Civil Engineers and Project Managers

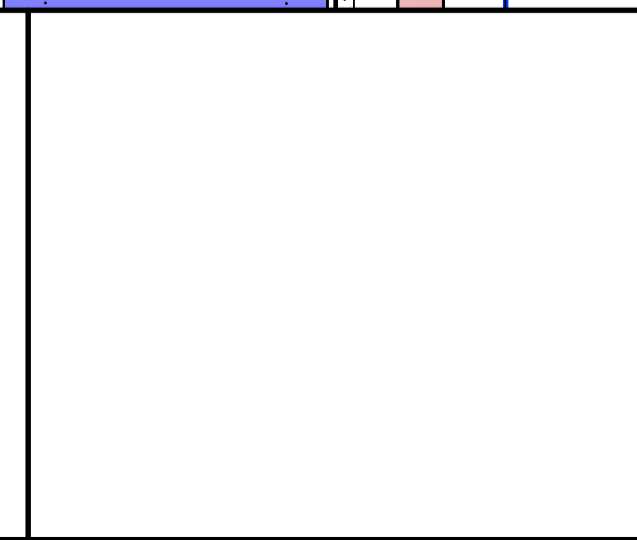
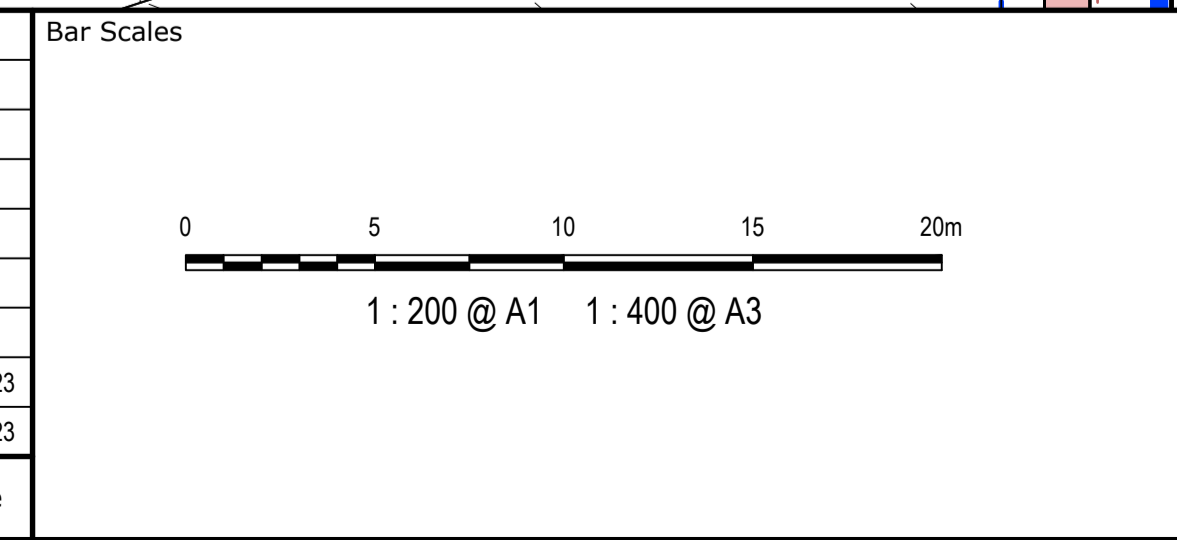
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1071	Issue
		A

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Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC
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Scale	1:200
Grid	GDA2020
Height Datum	AHD
Drawn	NT
Designed	BK
Checked	JC
Approved	

Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	BASIN 3A PLAN

Civil Engineers and Project Managers

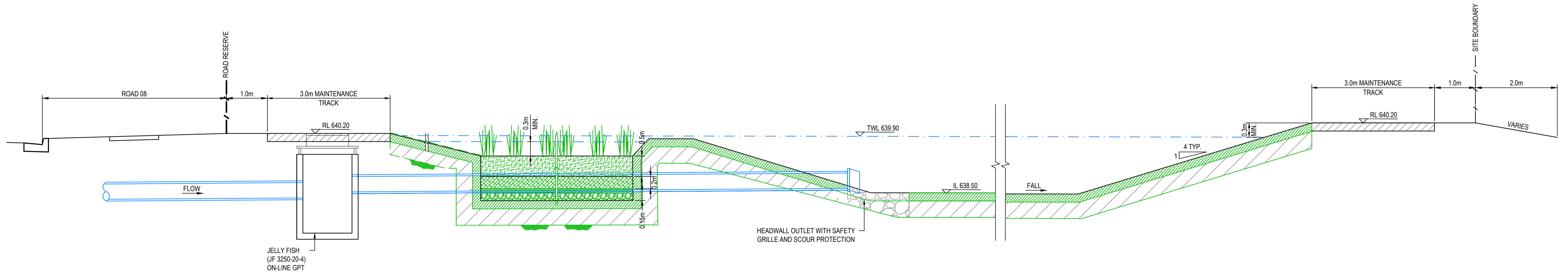
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
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Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1072	Issue
		A

**GDA2020**

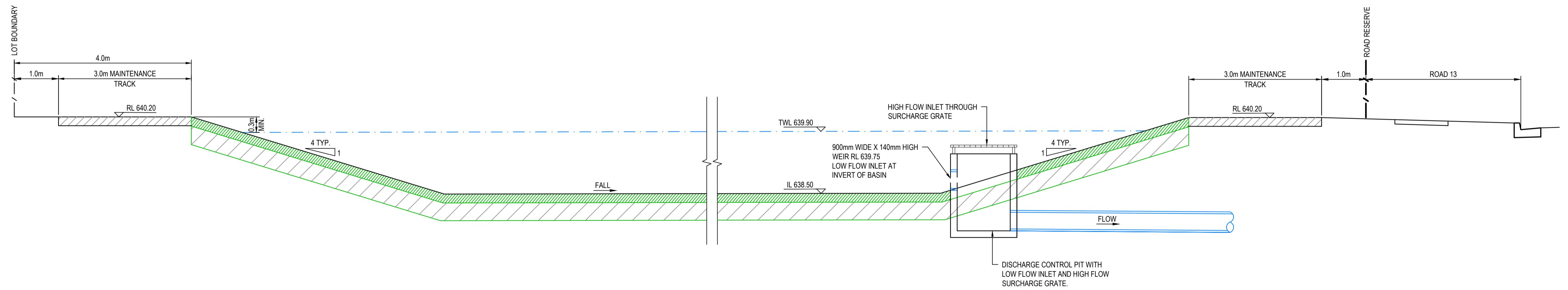
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TYPICAL SECTION OSD & WATER QUALITY BASIN 3A

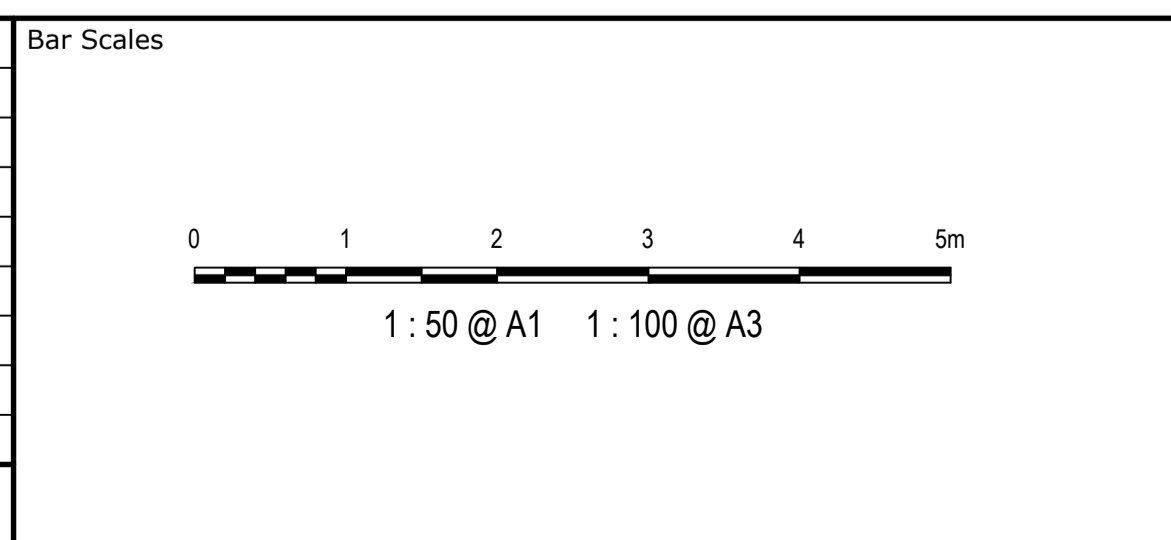
SECTION 1  
1:50 C1072



TYPICAL SECTION OSD & WATER QUALITY BASIN 3A

SECTION 2  
1:50 C1072

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC	
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AS SHOWN	Drawn	NT
GDA2020	Designed	BK
AHD	Checked	JC
	Approved	

GDA2020

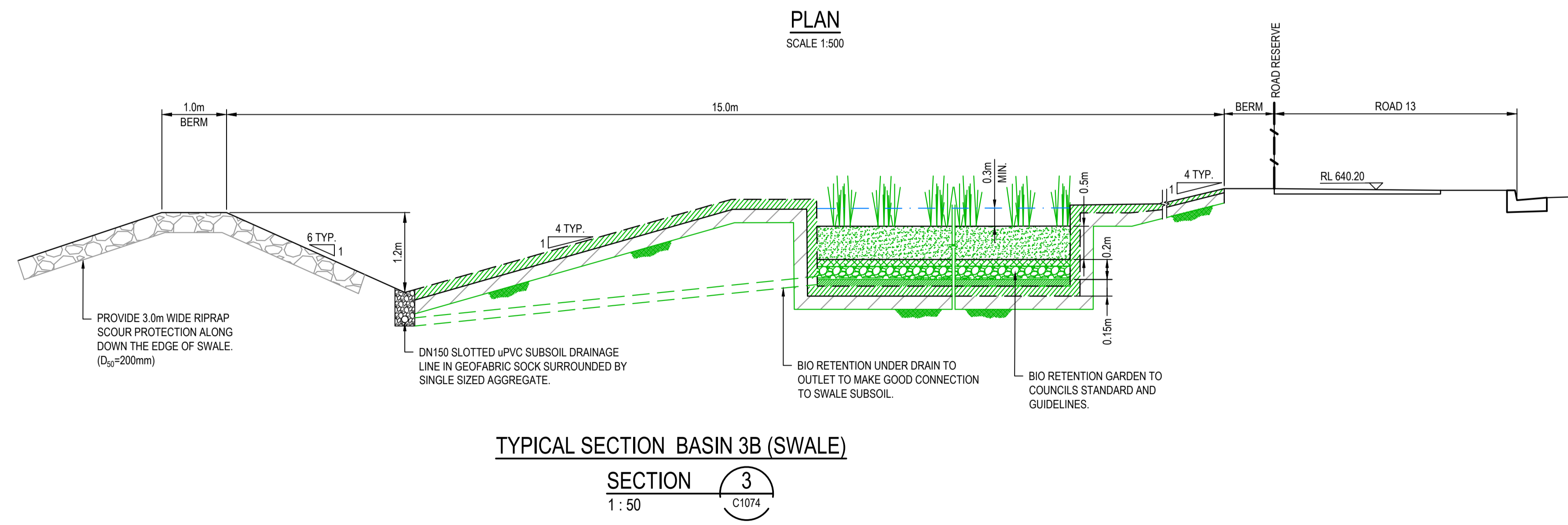
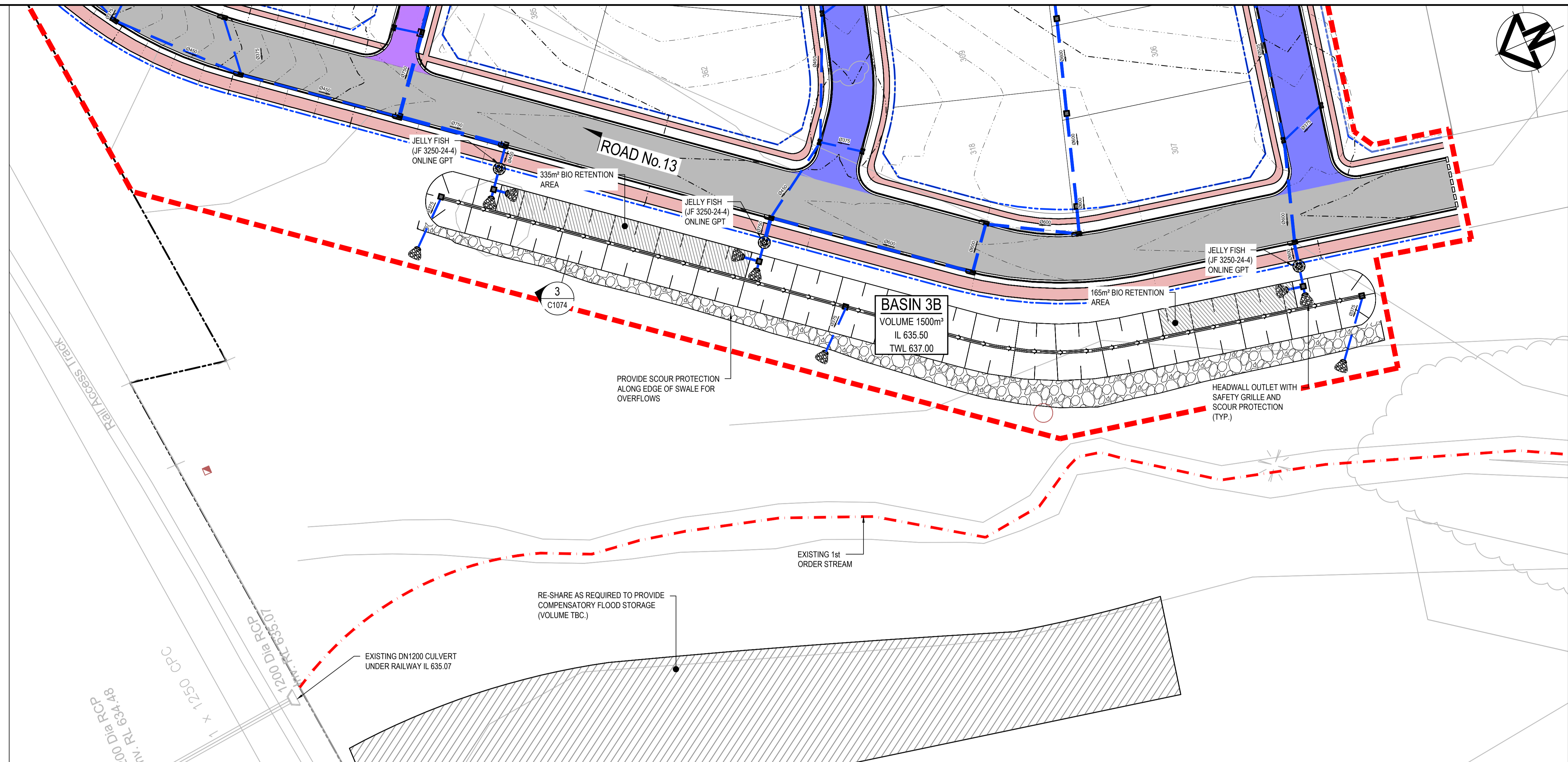
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Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	BASIN 3A SECTION

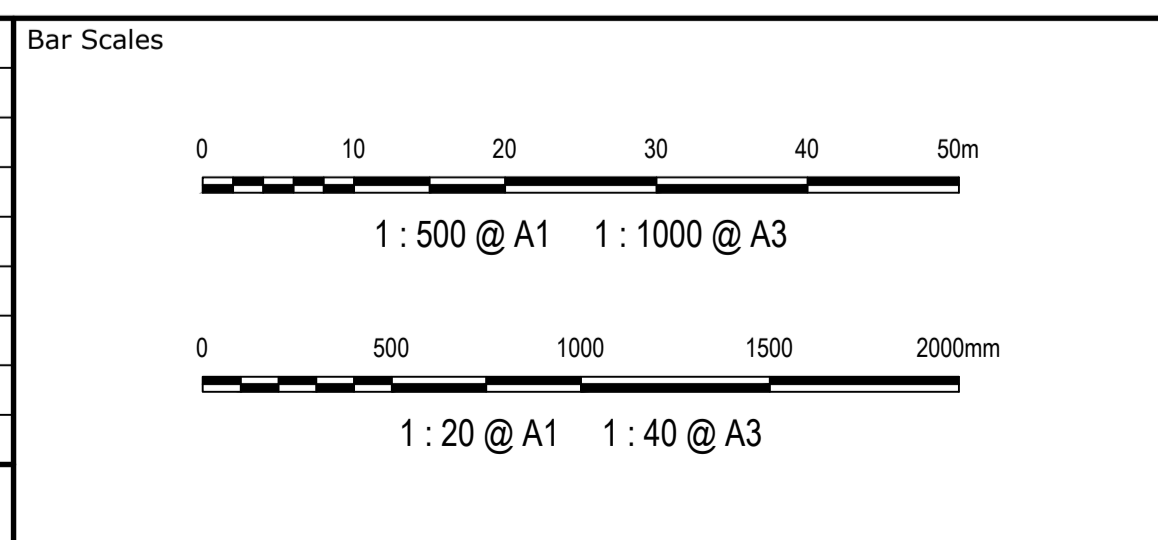
Civil Engineers and Project Managers

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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	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1098-C1073	Issue
		A



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client

Scales	Drawn	NT
AS SHOWN	Designed	BK
Grid GDA2020	Checked	JC
Height Datum AHD	Approved	

Project EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN

Title BASIN 3B PLAN  
AND SECTION

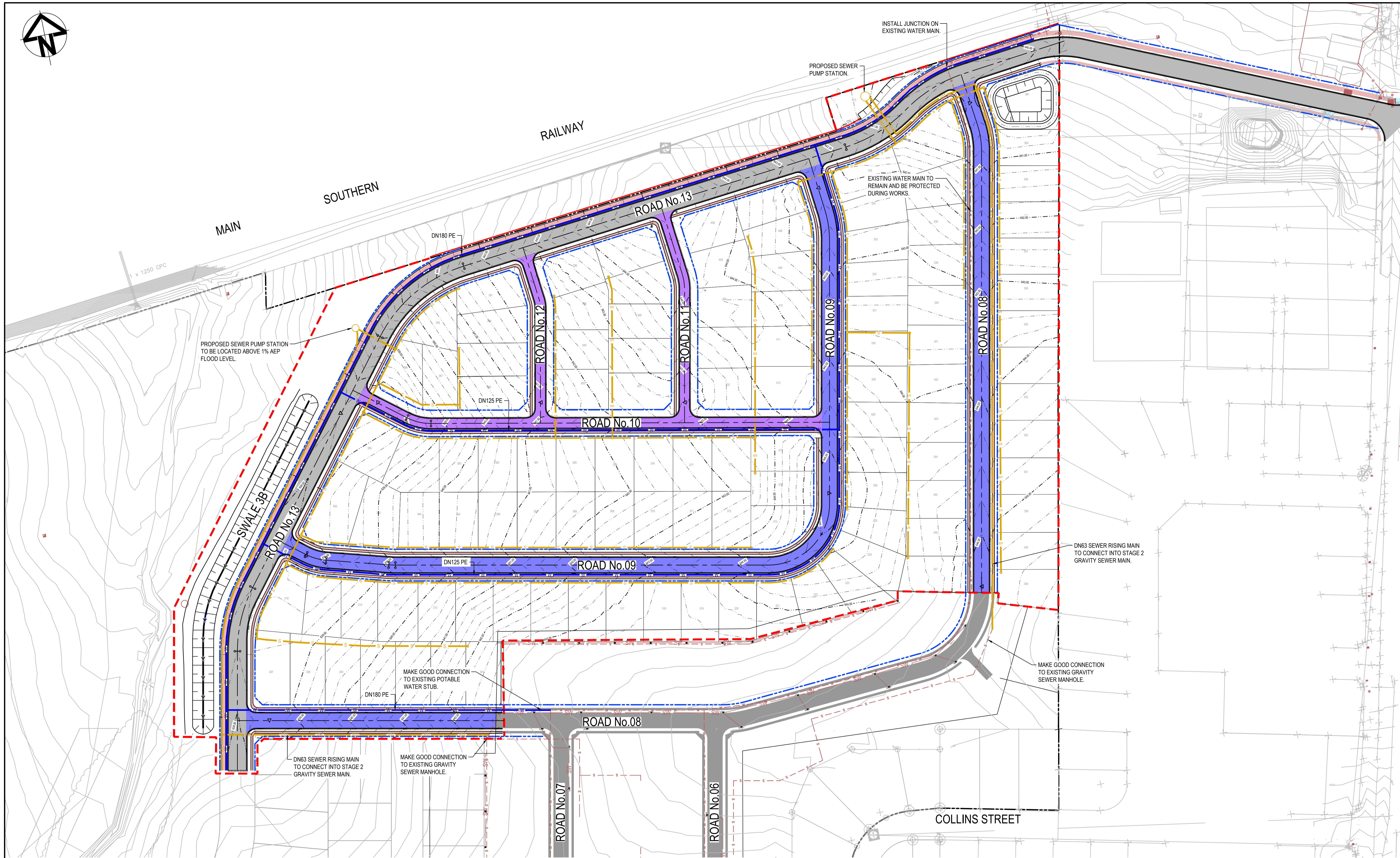
Scale GDA2020

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Status	Issue
PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. 23-1098-C1074	Issue A

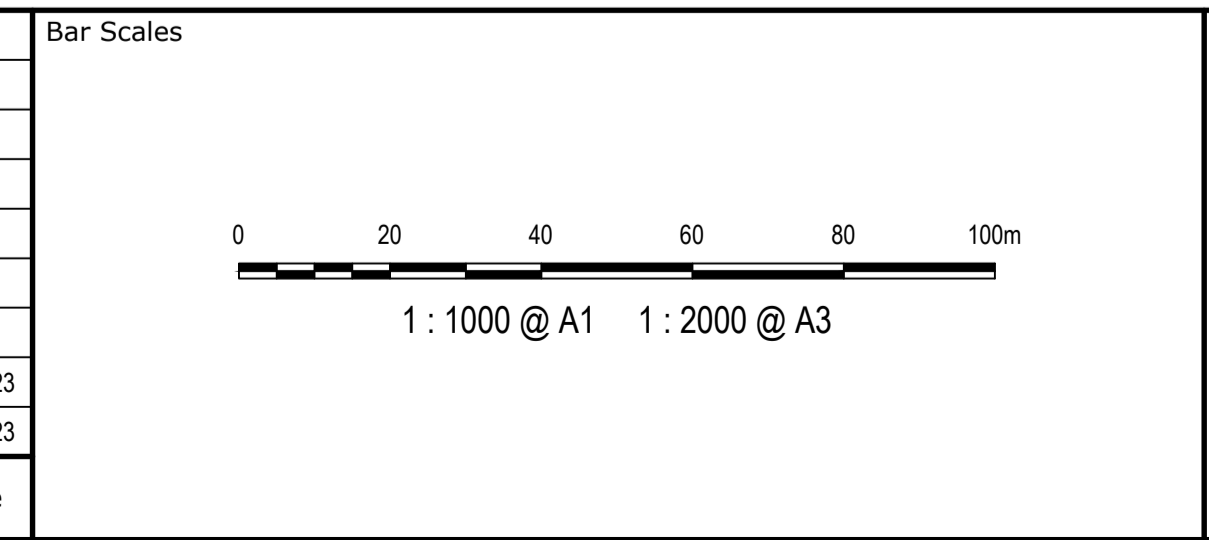
Civil Engineers and Project Managers

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Tel: 02 9439 1777  
Fax: 02 9923 1055  
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info@atl.net.au



FOR CONTINUATION REFER TO DRAWING C1081

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client



Scale	1:1000	Drawn	NT
Grid	GDA2020	Designed	BK
Height Datum	AHD	Checked	JC
		Approved	

GDA2020

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**WATER AND SEWER  
RETICULATION PLAN  
SHEET 1**

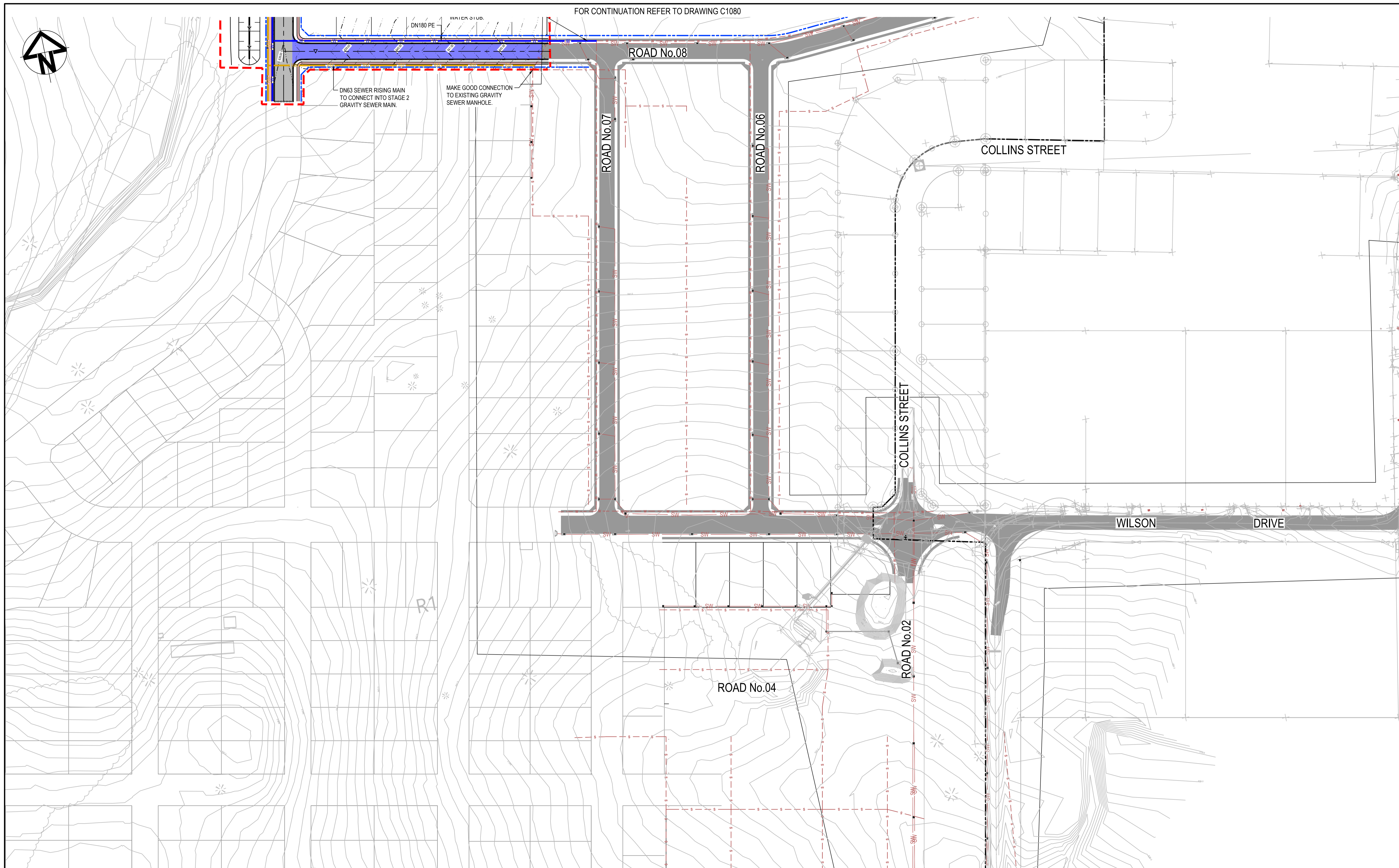
Civil Engineers and Project Managers

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

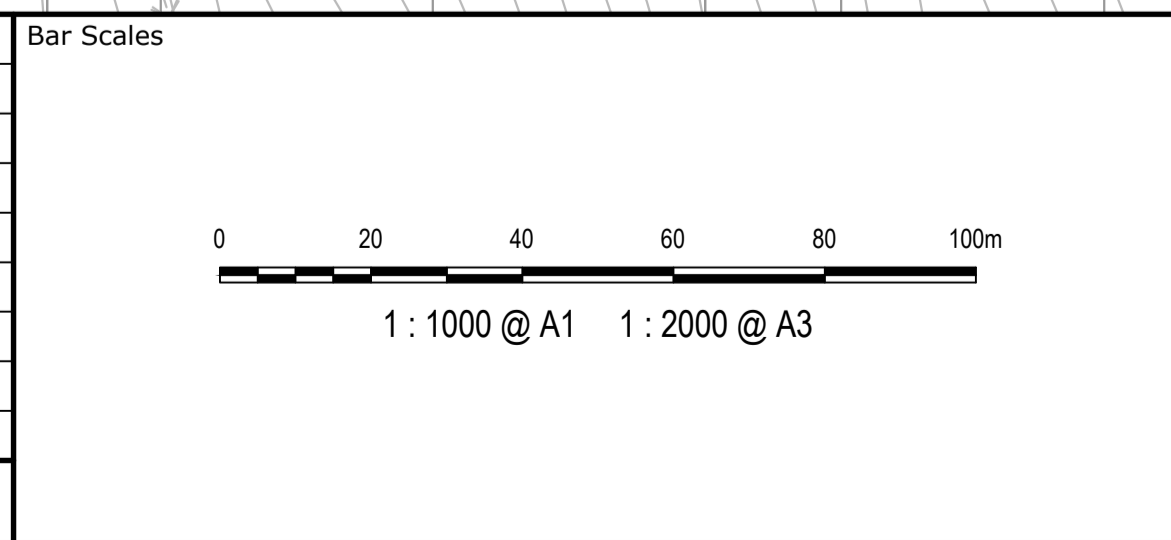
Status  
**PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1098-C1080**

Issue  
**A1**



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client

Scales	1:1000
Grid	GDA2020
Height Datum	AHD

Drawn	NT
Designed	BK
Checked	JC
Approved	

GDA2020

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**WATER AND SEWER  
RETICULATION 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

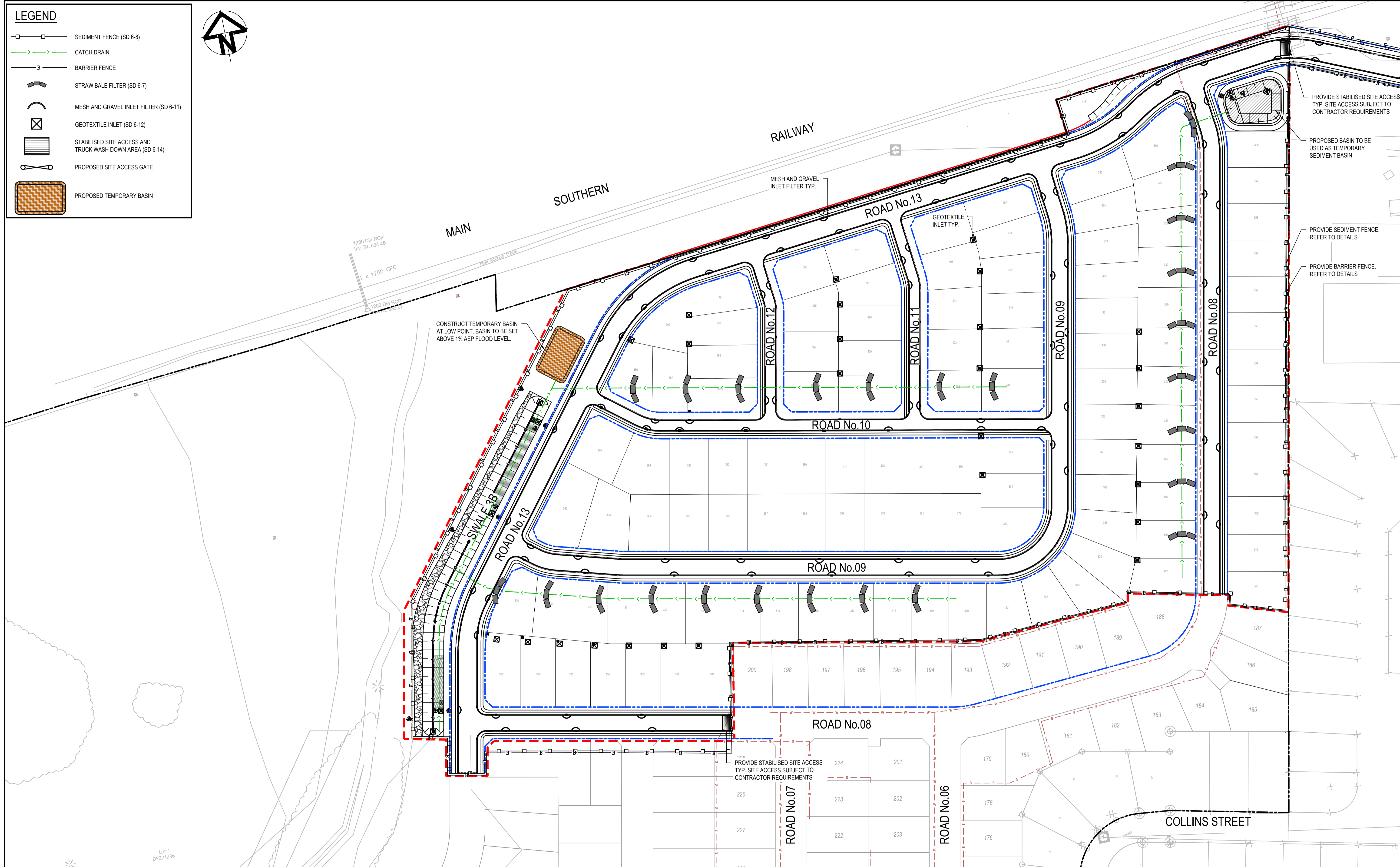
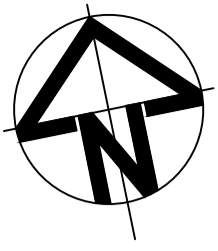
Status  
**PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1098-C1081**

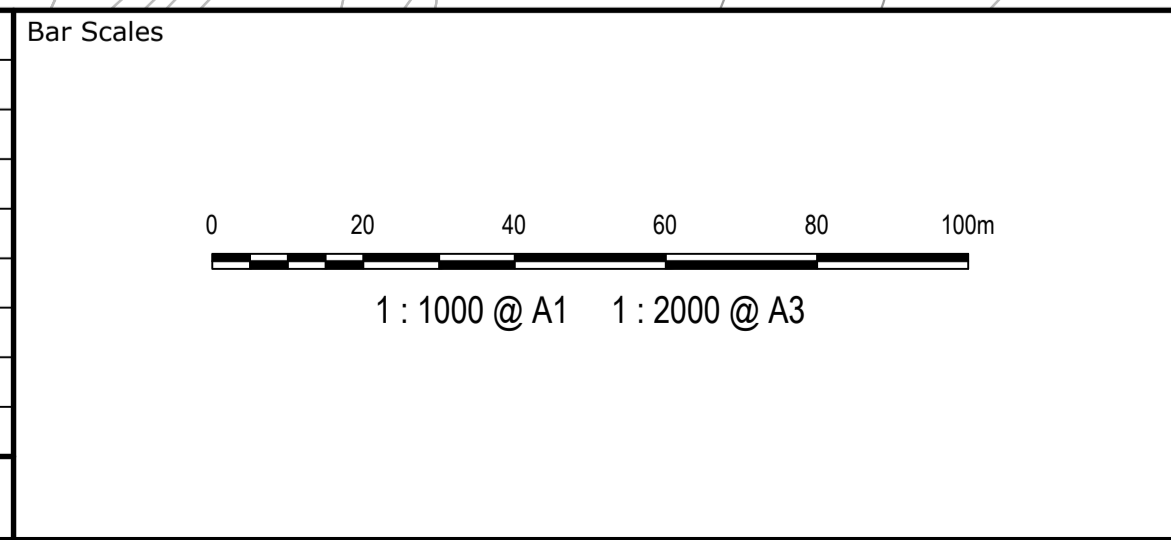
A1	Issue
A	

**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
- PROPOSED TEMPORARY BASIN



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client

Scales	1:1000
Grid	GDA2020
Height Datum	AHD

Drawn	NT
Designed	BK
Checked	JC
Approved	

**GDA2020**

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**EROSION AND SEDIMENT  
CONTROL  
PLAN**

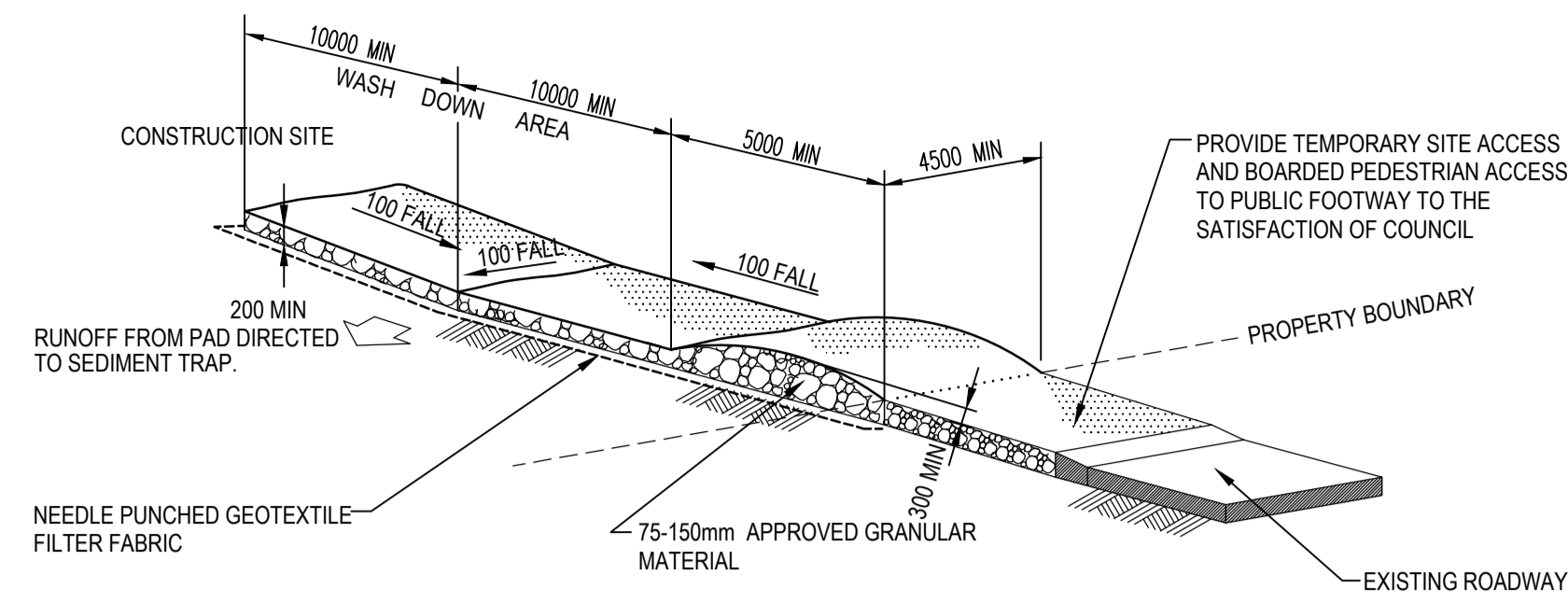
Civil Engineers and Project Managers

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  
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Status  
**PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

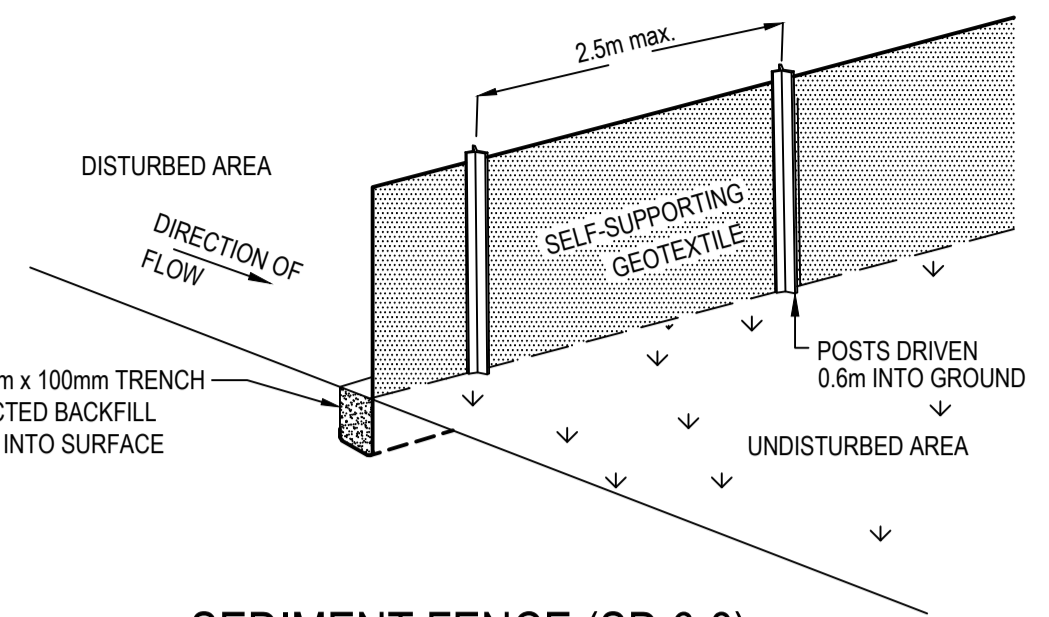
Project - Drawing No.  
**23-1098-C1090**

Issue  
**A**



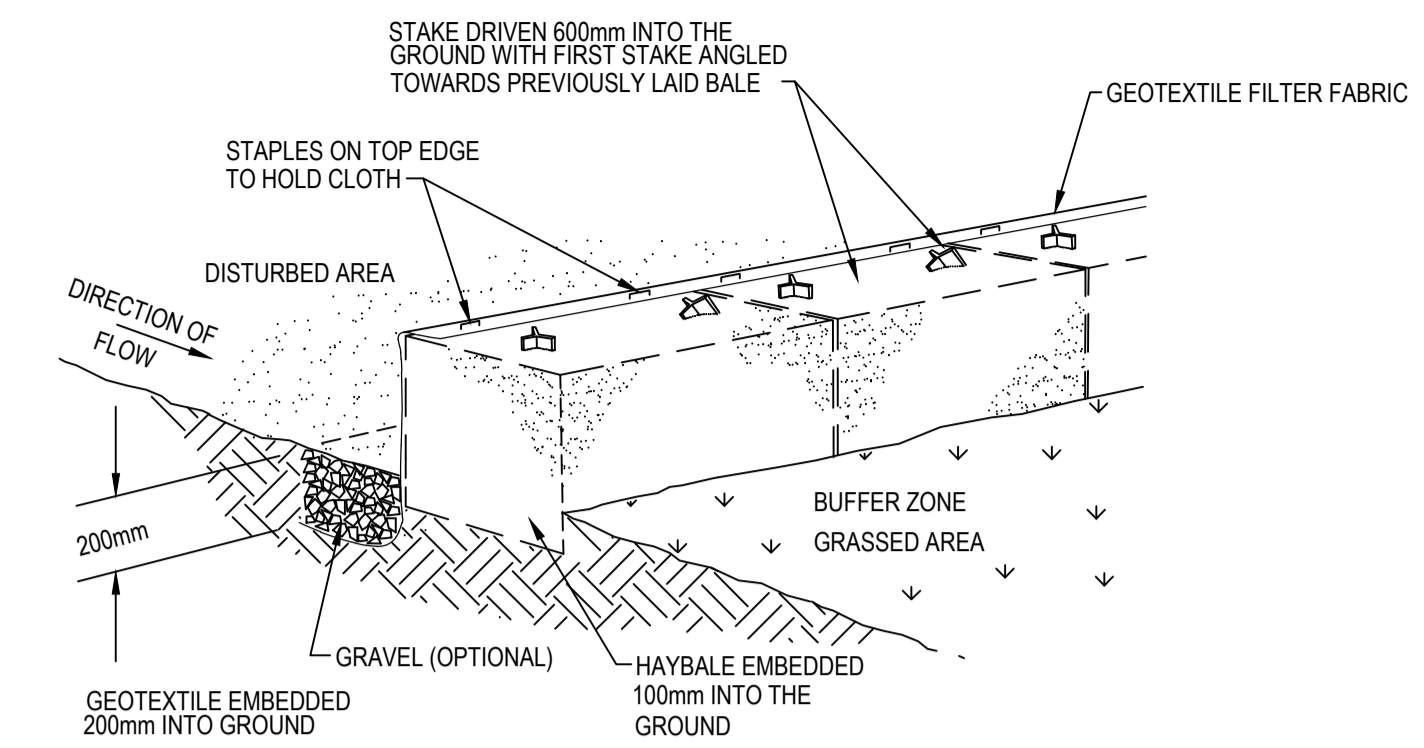
**STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA**

NTS



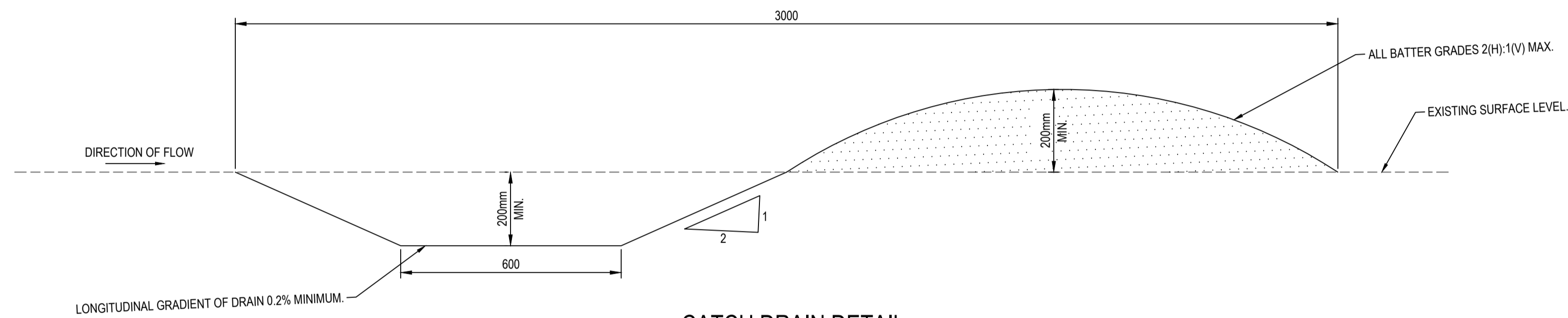
**SEDIMENT FENCE (SD 6-8)**

NTS



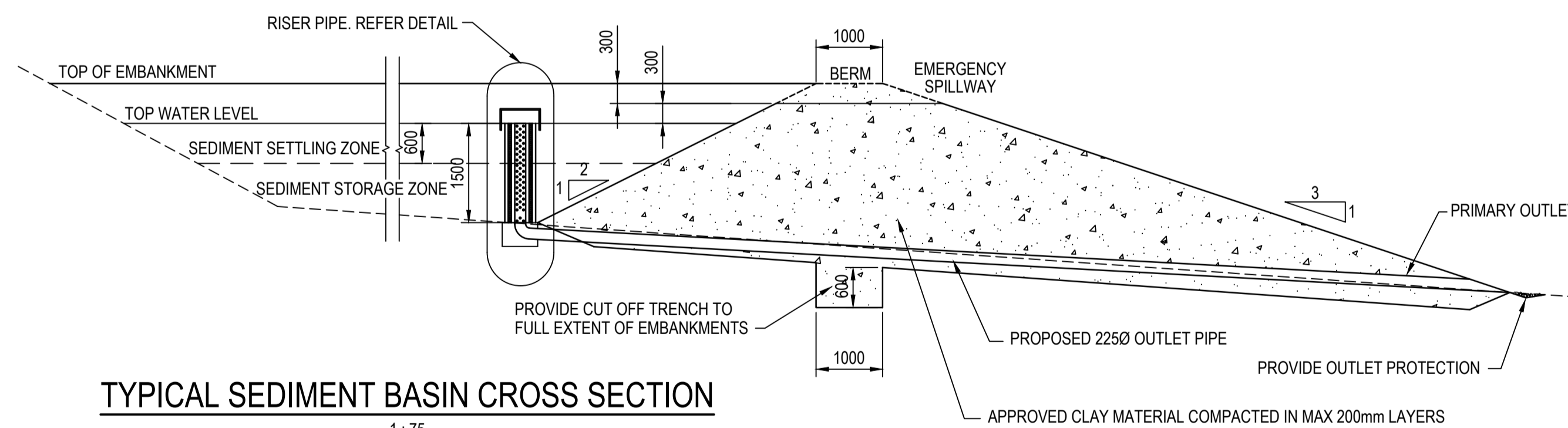
**HAYBALE AND GEOTEXTILE SEDIMENT FILTER**

NTS



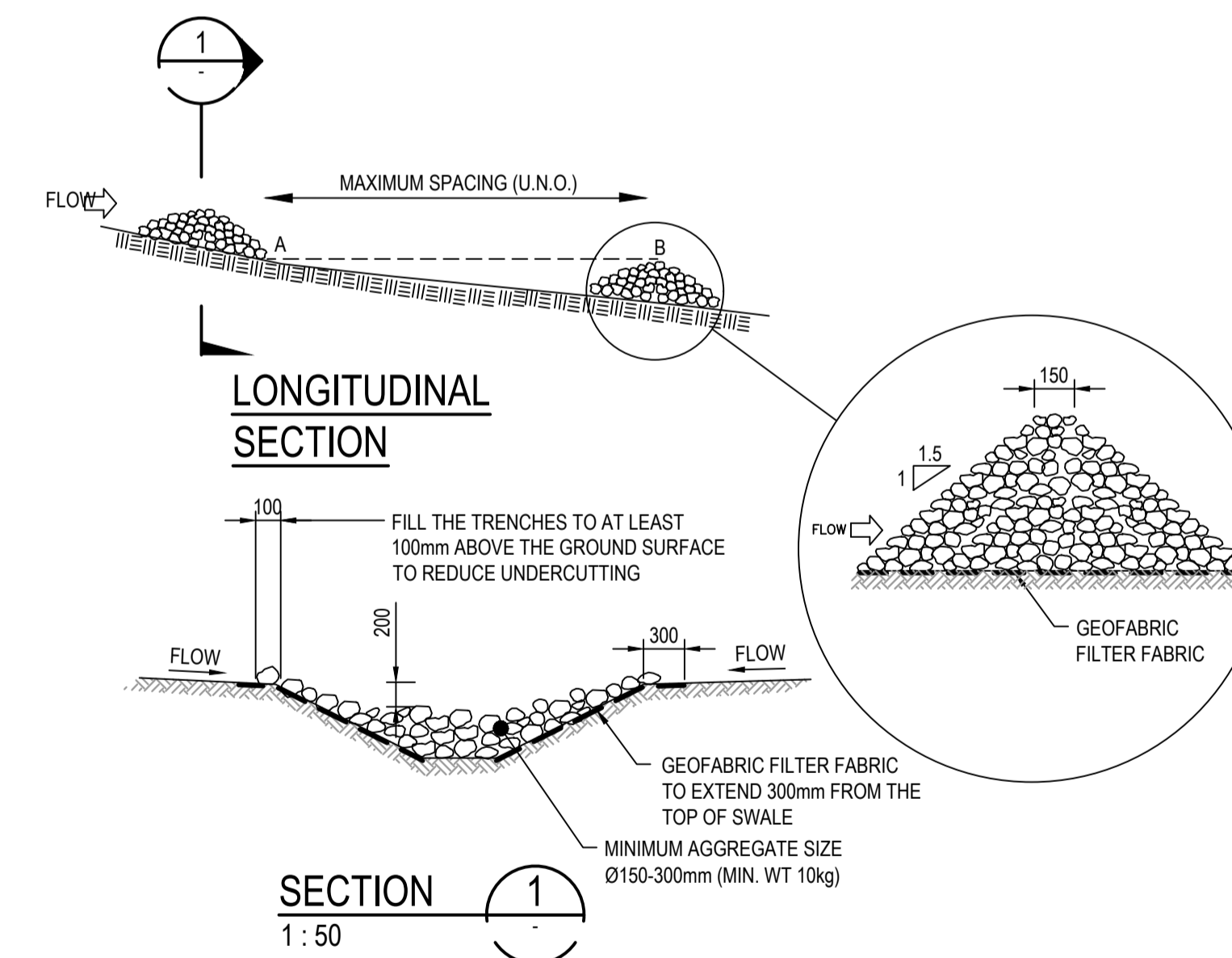
**CATCH DRAIN DETAIL**

SCALE 1:10



**TYPICAL SEDIMENT BASIN CROSS SECTION**

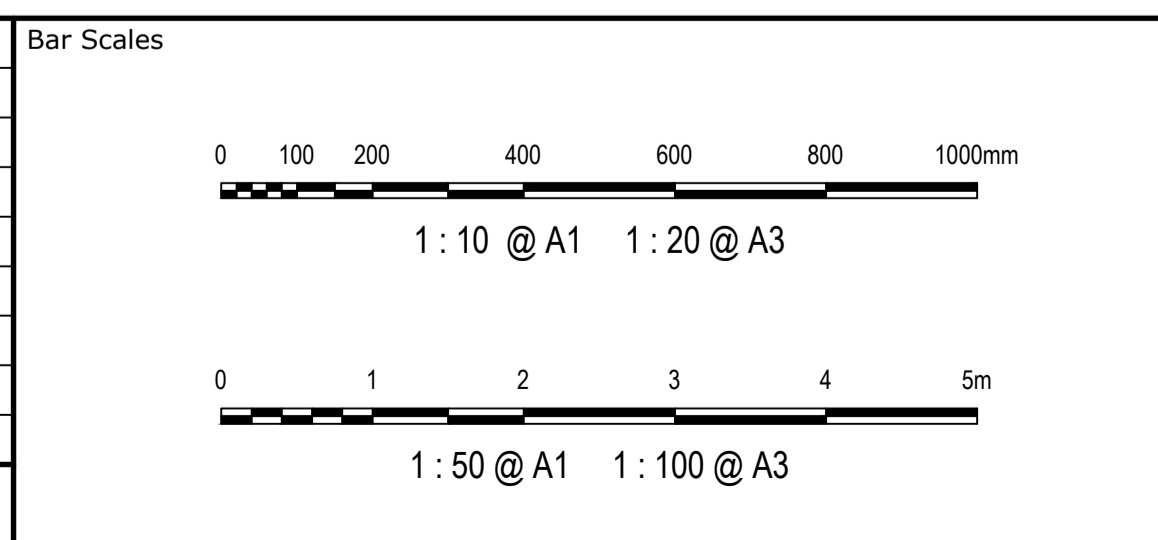
1:75  
TYPICAL FOR ALL SEDIMENT BASINS



**ROCK RIFFLE CHECK DAM (SD 5-4)**

1:50

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC
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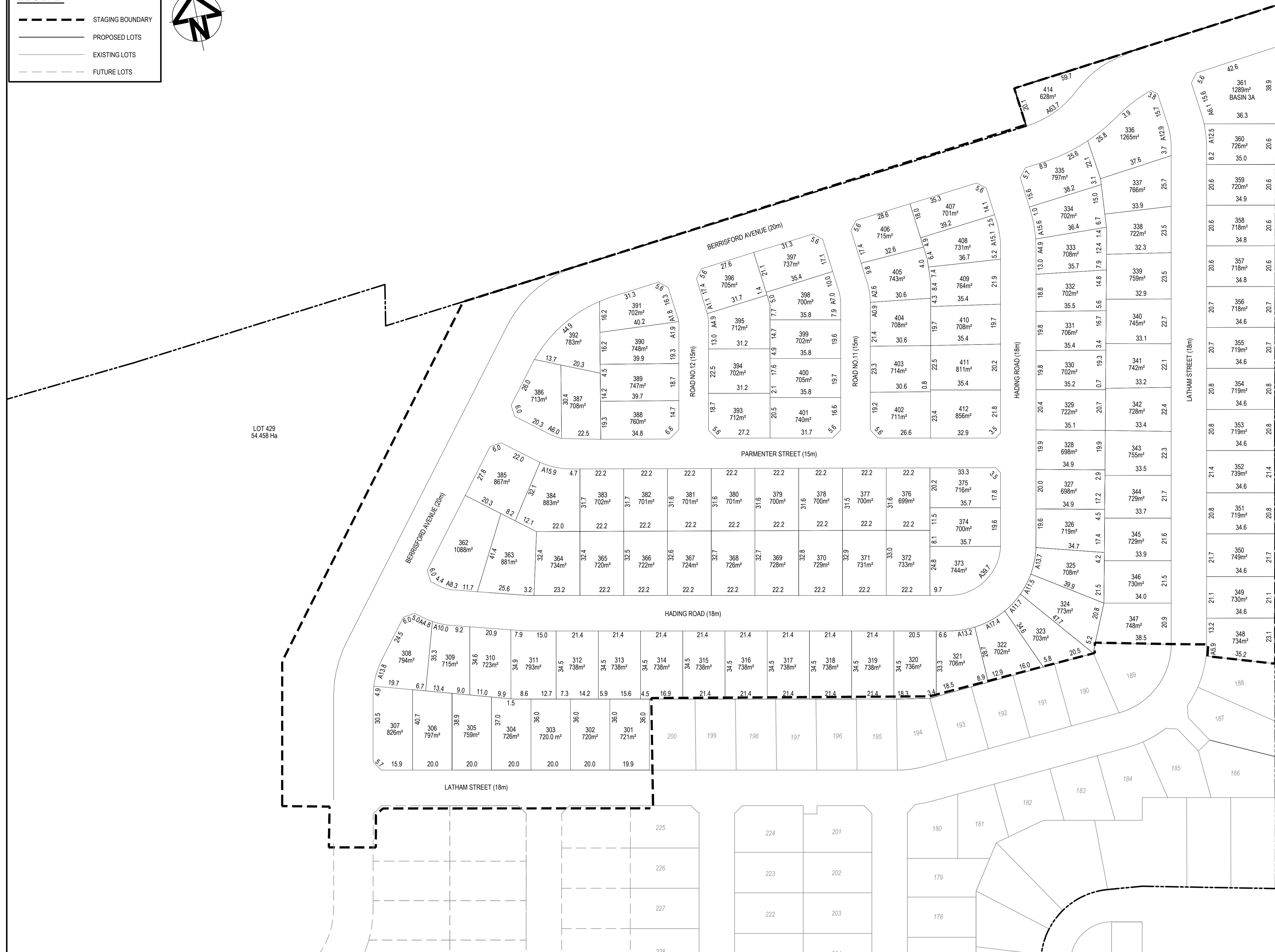
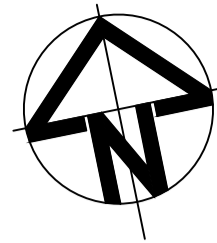
Scales	N.T.S.	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	
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Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	EROSION AND SEDIMENT DETAILS

Civil Engineers and Project Managers	
<small>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</small>	
Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1098-C1091
Issue	A

**LEGEND**

- STAGING BOUNDARY
- PROPOSED LOTS
- EXISTING LOTS
- - - FUTURE LOTS



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
A	ISSUE FOR DA	06-07-23

Bar Scales

1 : 1000 @ A1    1 : 2000 @ A3

Client



Scales  
1:1000

Grid  
GDA2020

Height Datum  
AHD

Drawn  
NT

Designed  
BK

Checked  
JC

Approved

GDA2020

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

Title  
**PLAN  
OF SUBDIVISION**

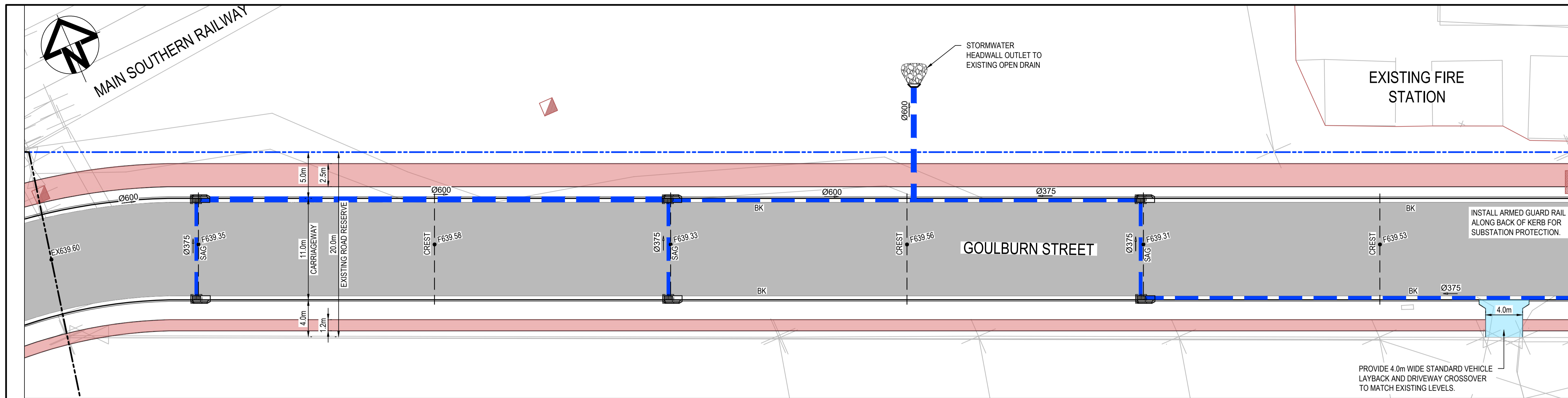
Civil Engineers and Project Managers

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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

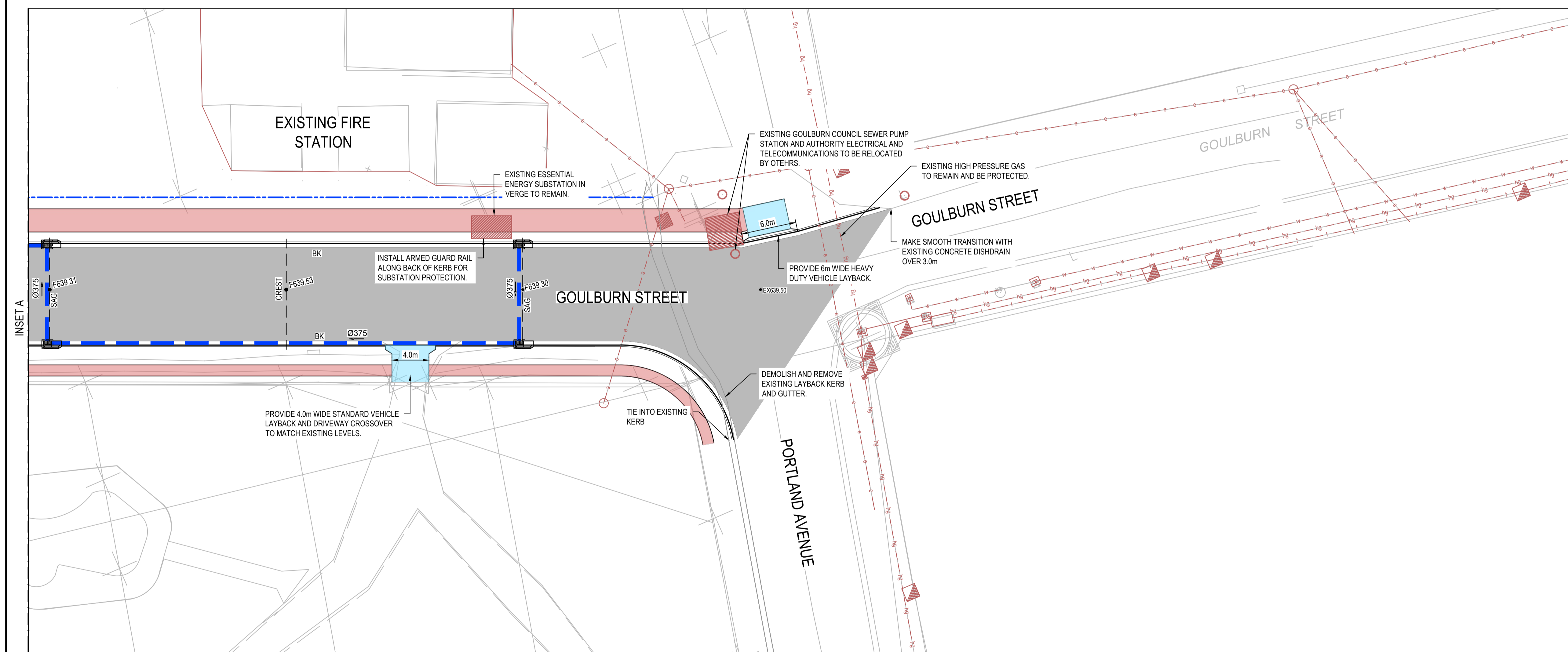
Status  
**PRELIMINARY ONLY  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1098-C1100**

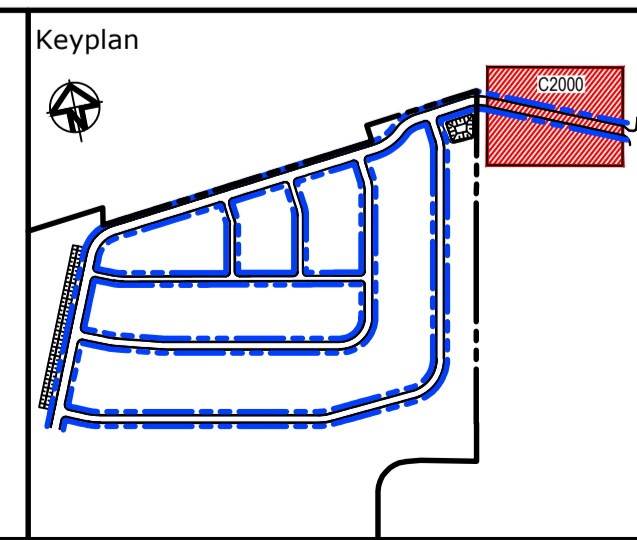
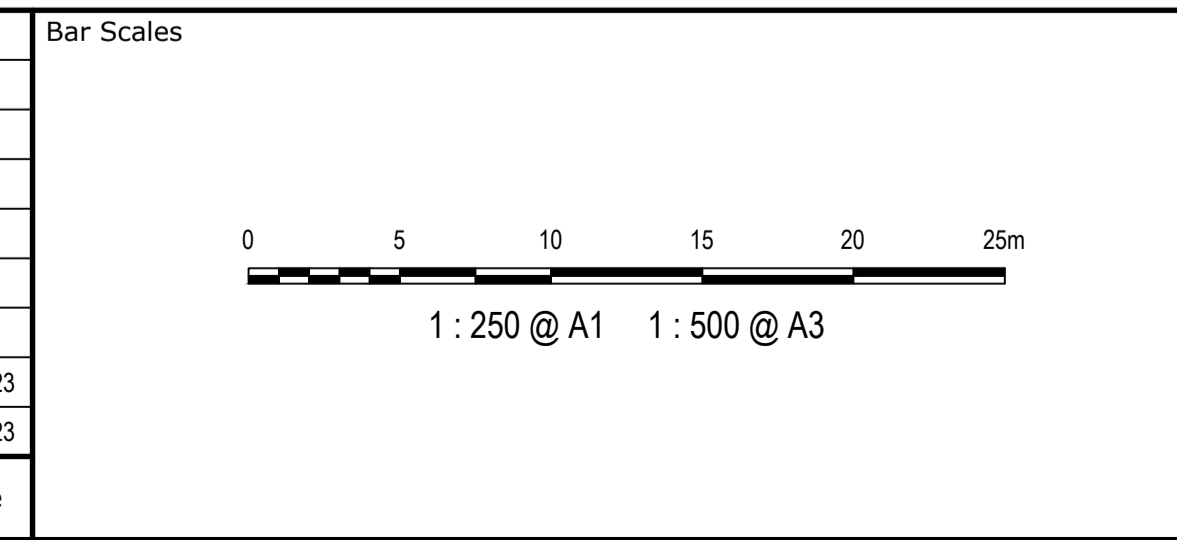
Issue  
**A1**



SITWORKS LEGEND	
	EXISTING BOUNDARY
	EXISTING CONTOUR
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED RETAINING WALL
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER
	CUT BATTER 1(V):3(H)
	FILL BATTER 1(V):5(H)
	U.N.O
	PROPOSED BARRIER KERB
	PROPOSED KERB
	PROPOSED STORMWATER SURFACE INLET PIT
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	EXISTING STORMWATER (STAGE 02)
	PROPOSED STORMWATER PIT LABEL
	PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
	PROPOSED STORMWATER HEADWALL
	COLLECTOR STREET PAVEMENT
	DRIVEWAY CROSSOVER
	EXISTING SEWER SERVICE
	EXISTING WATER
	EXISTING TELSTRA
	EXISTING STORMWATER
	EXISTING GAS
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT



Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Scales	1:250	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

GDA2020

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Project  
**EQUINOX - STAGE 3  
WILSON DRIVE,  
MARULAN**

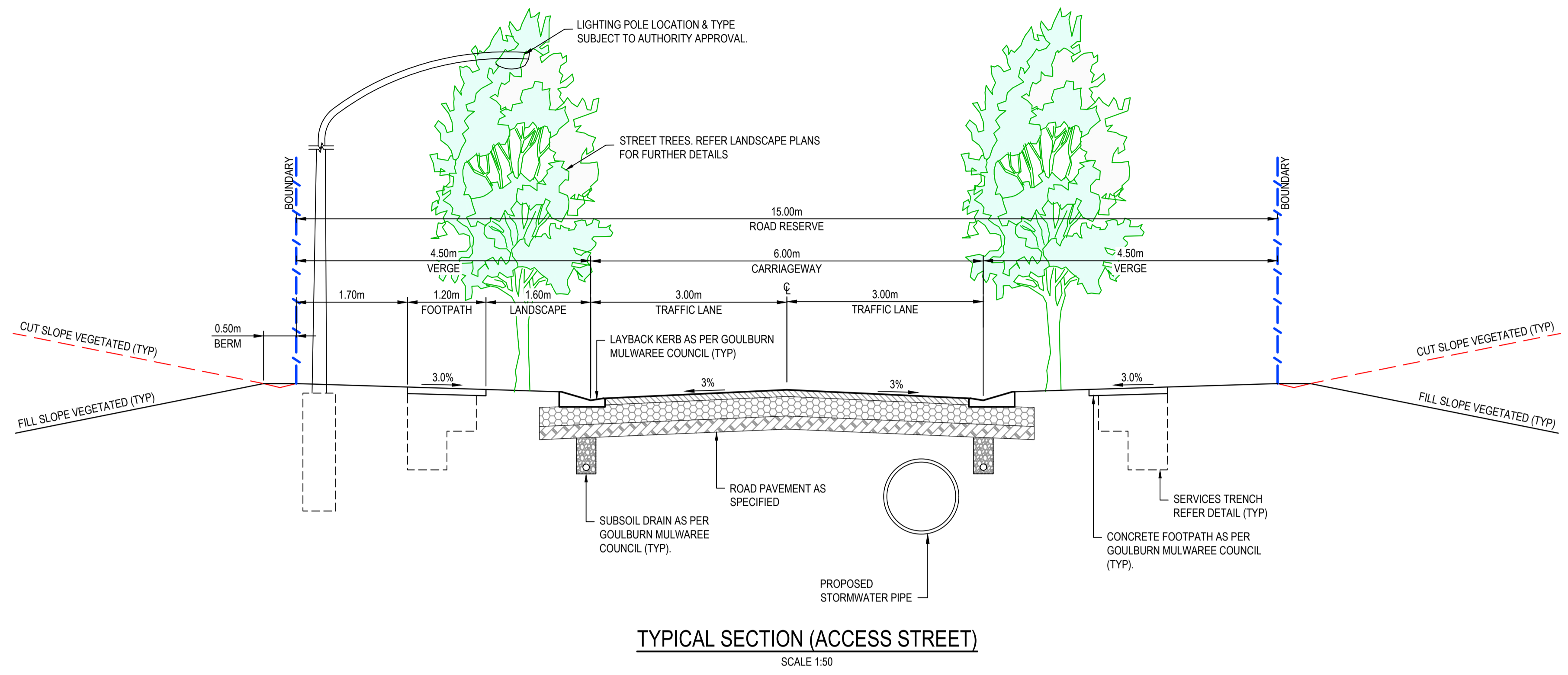
Title  
**GOULBURN STREET  
SITWORKS AND  
STORMWATER  
PLAN**

Civil Engineers and Project Managers

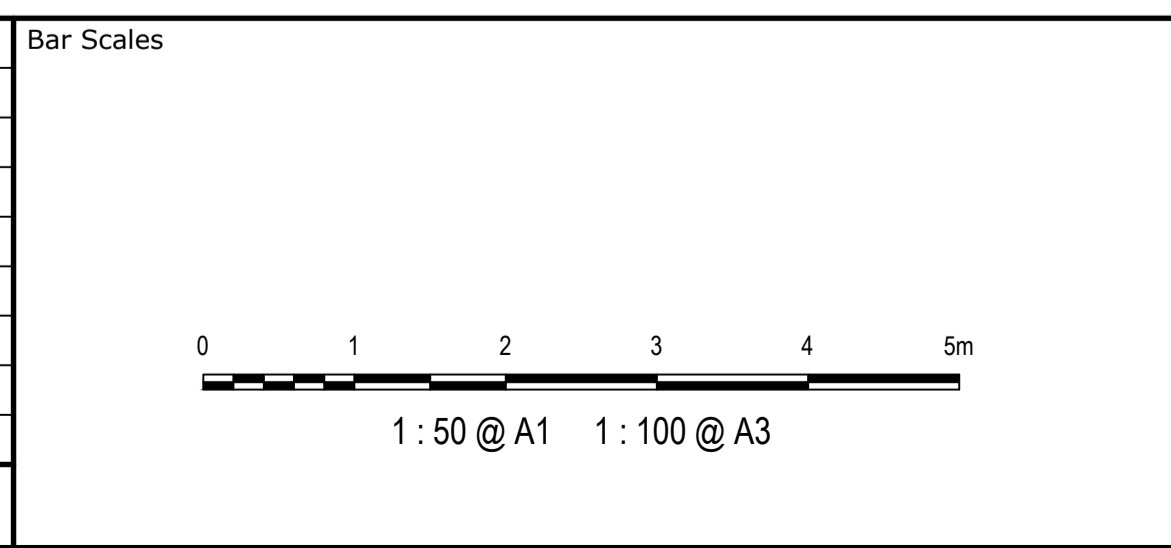
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status	<b>PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1098-C2000</b>	Issue
		<b>A</b>





Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client



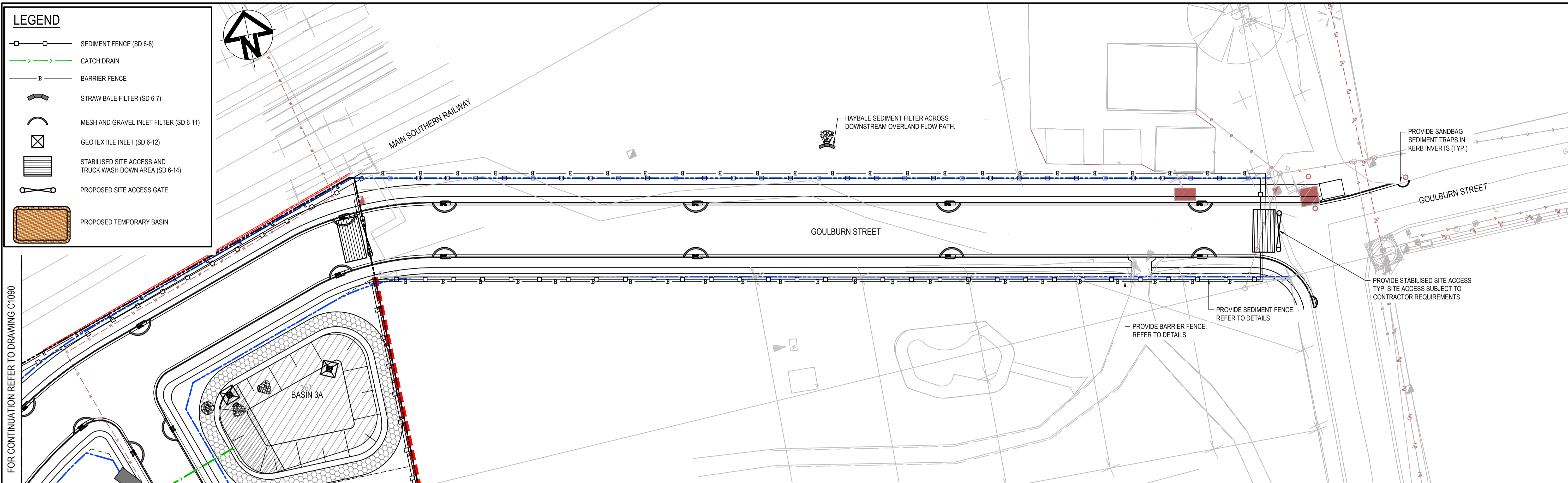
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Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	
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Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	GOULBURN STREET TYPICAL SECTIONS

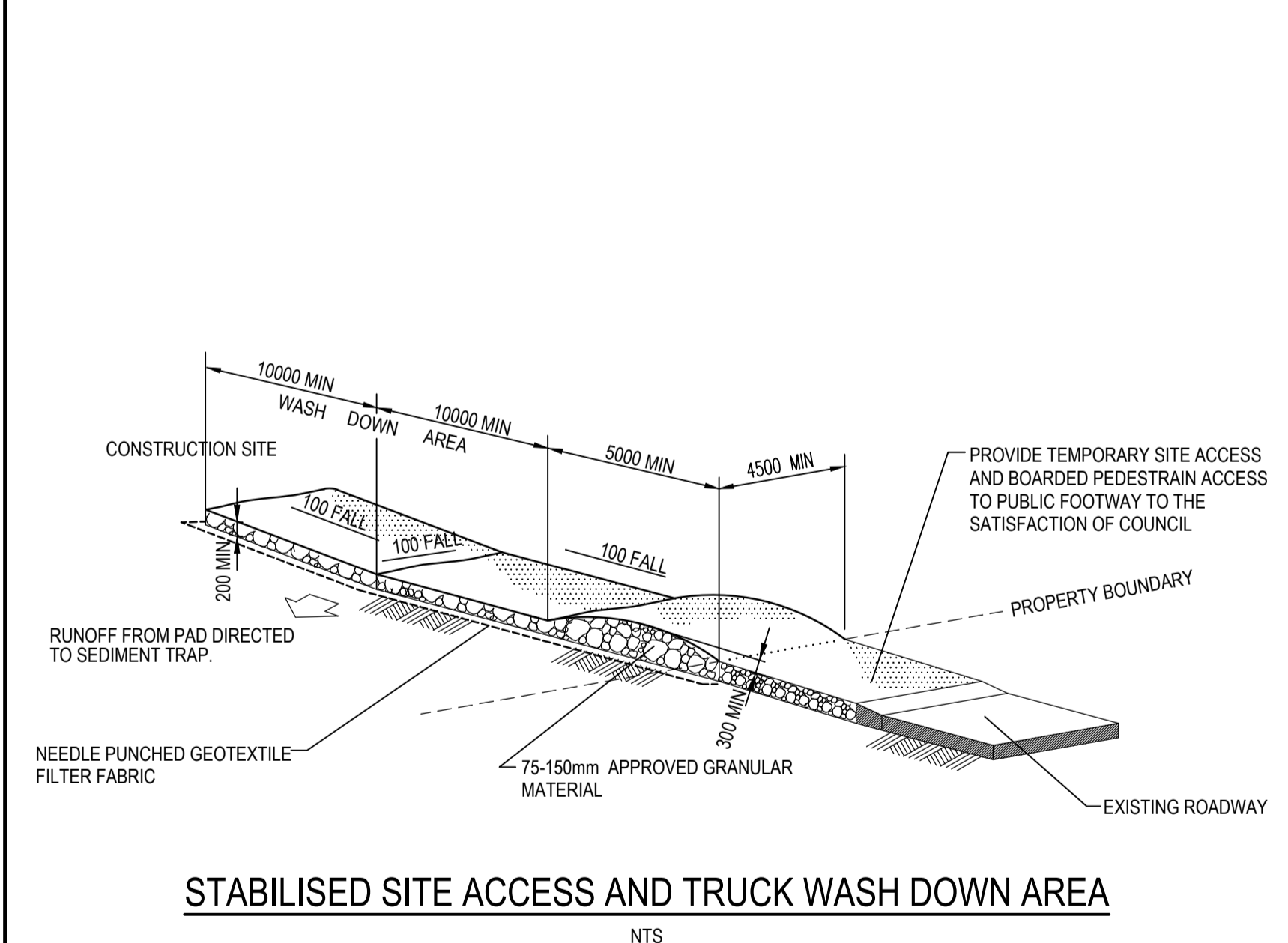
Civil Engineers and Project Managers

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  
info@atl.net.au

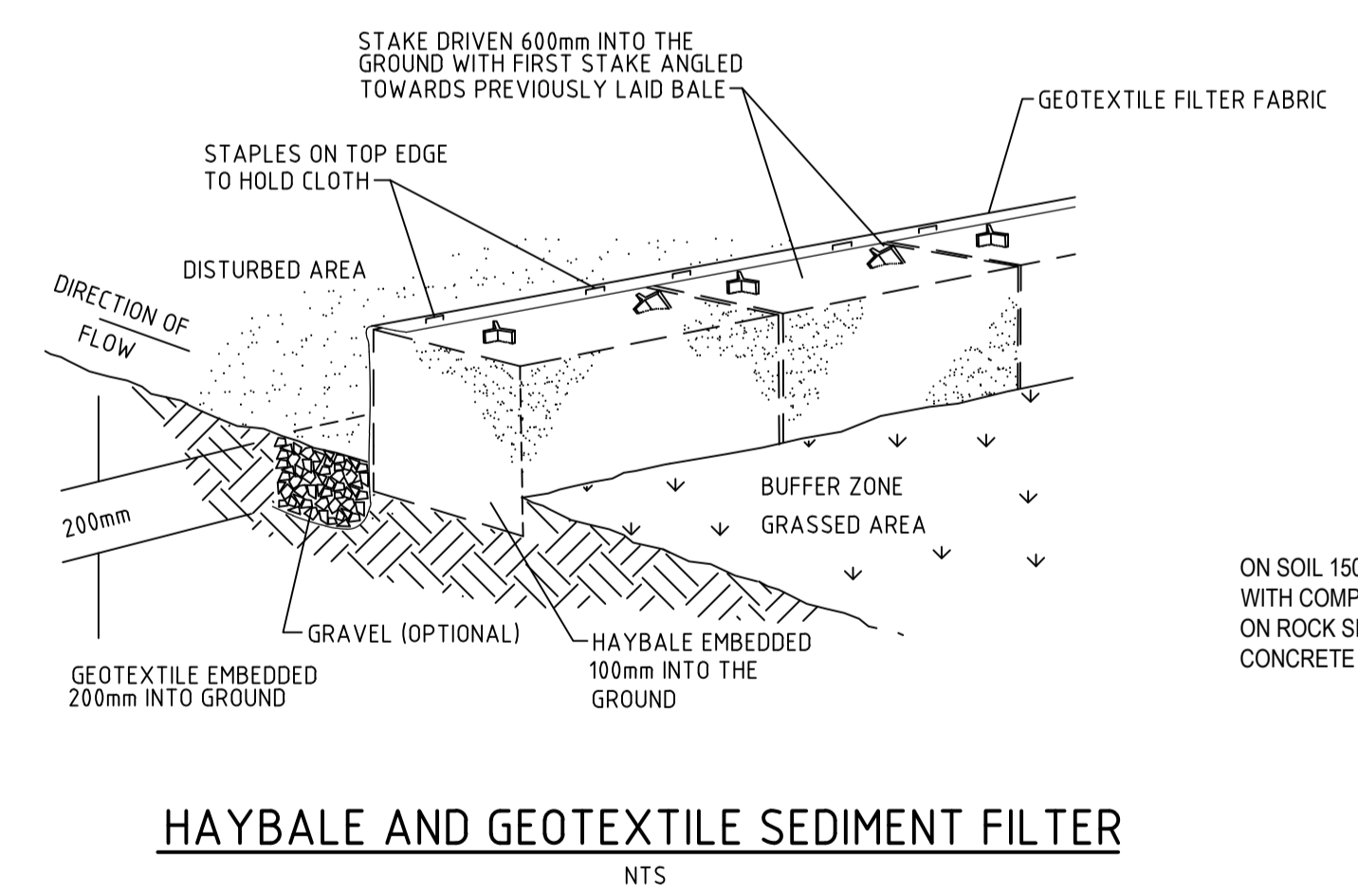
Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue	A1
Project - Drawing No.	23-1098-C2001	Issue	A



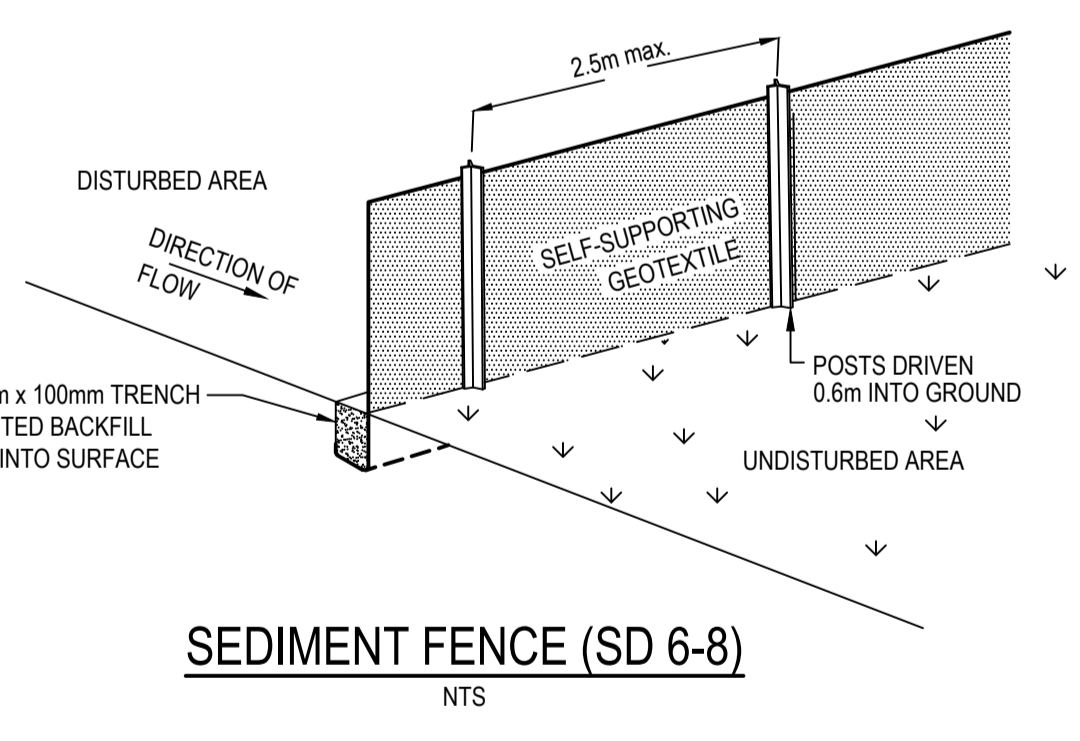
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SCALE 1:250



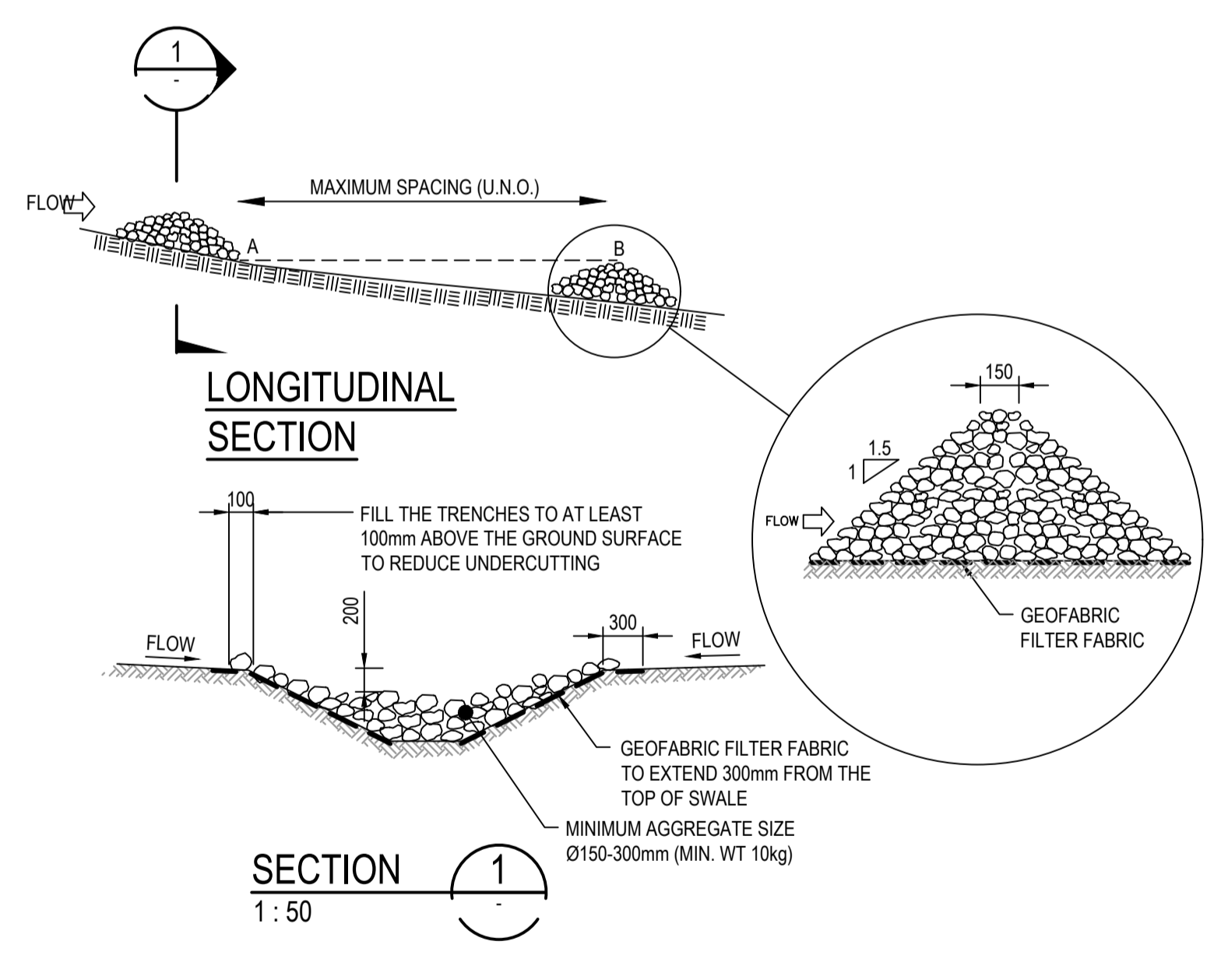
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA  
NTS



HAYBALE AND GEOTEXTILE SEDIMENT FILTER  
NTS

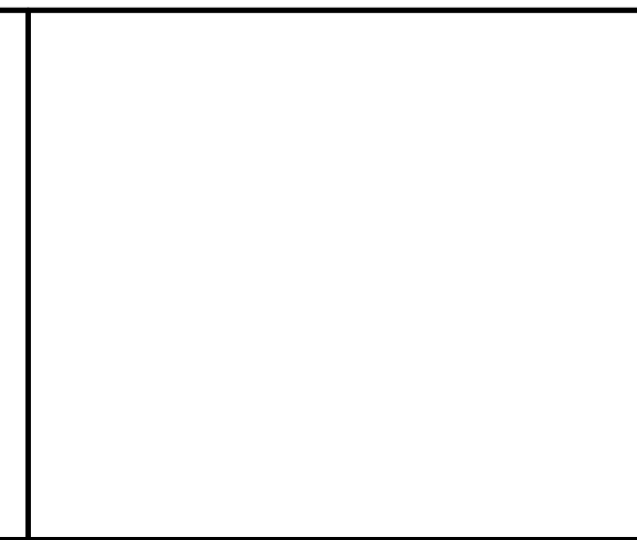
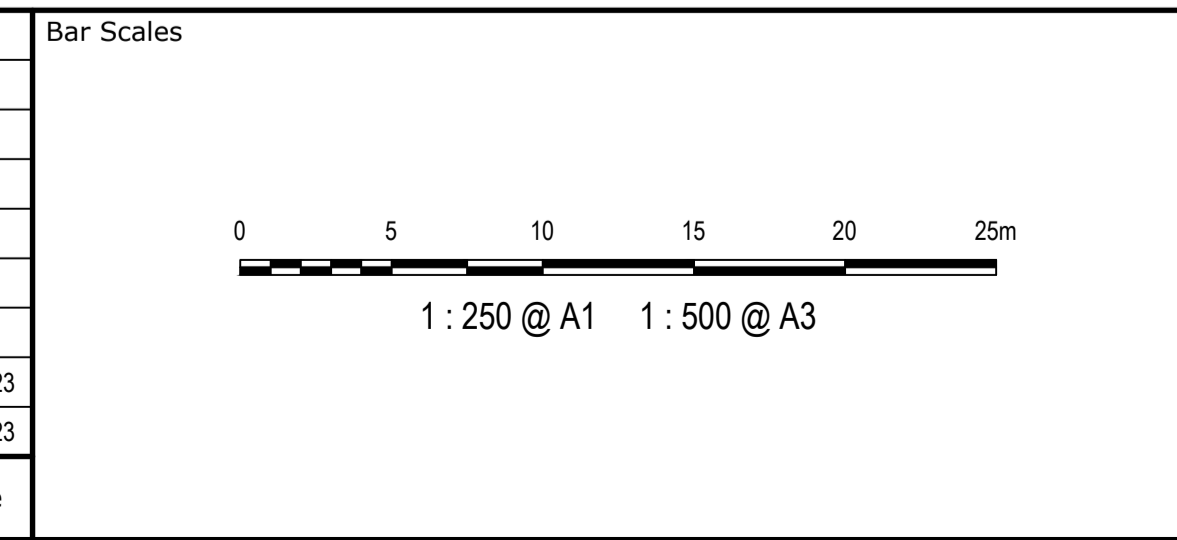


SEDIMENT FENCE (SD 6-8)  
NTS



SECTION 1  
1:50  
LONGITUDINAL SECTION  
1:50  
ROCK RIFLE CHECK DAM (SD 5-4)  
1:50

Issue	Description	Date
A	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23



Client	FDC
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Scales	1:1000	Drawn	NT
		Designed	BK
Grid	GDA2020	Checked	JC
Height Datum	AHD	Approved	

Project	EQUINOX - STAGE 3 WILSON DRIVE, MARULAN
Title	GOULBURN STREET EROSION AND SEDIMENT CONTROL PLAN AND 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 www.at.net.au info@at.net.au	
Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1098-C2002
Issue	A

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