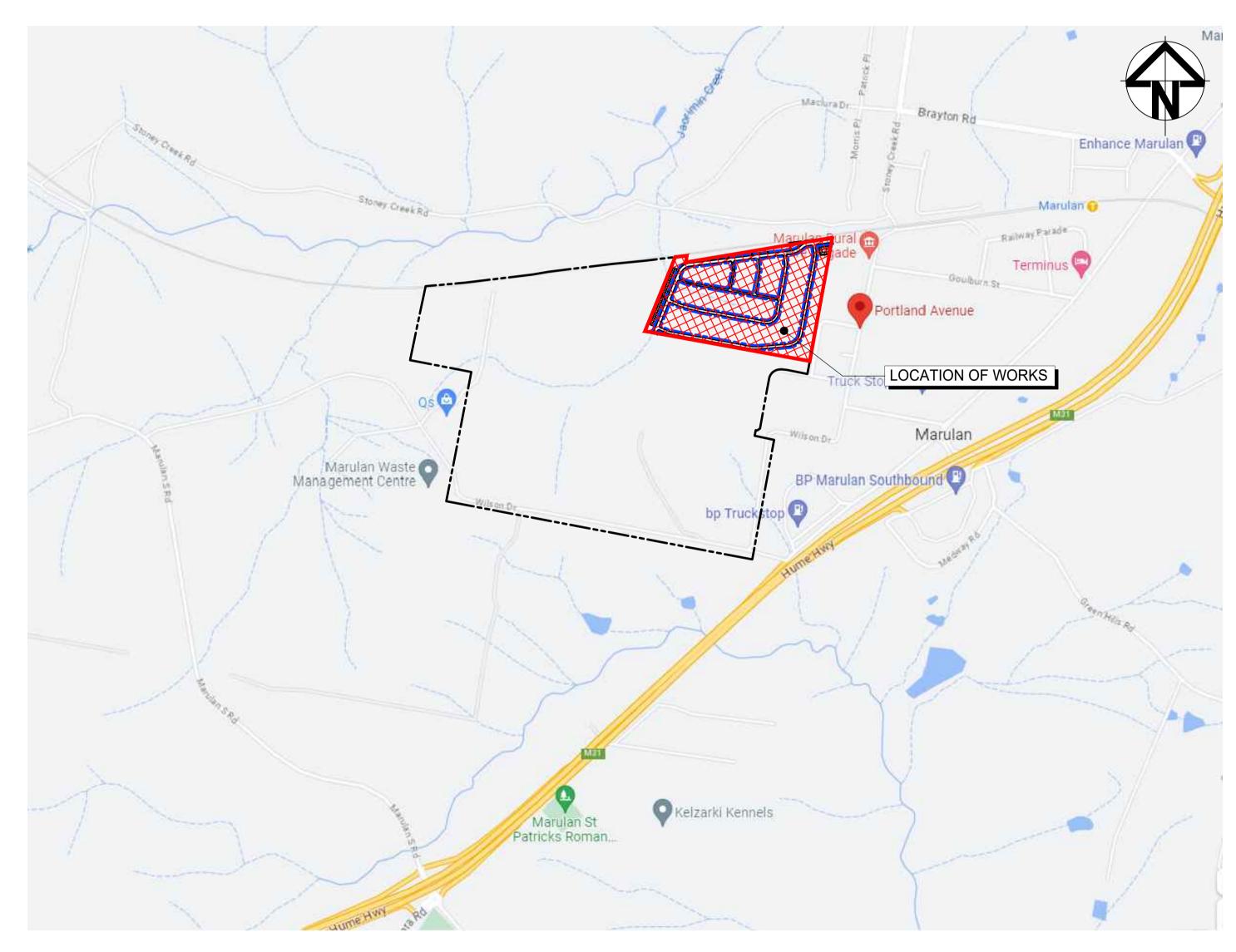
EQUINOX - STAGE 3 WILSON DRIVE, MARULAN DEVELOPMENT APPLICATION, CIVIL WORKS

DRAWING LIST

GENERAL	
23-1098-C1000	COVER SHEET, DRAWING LIST AND LOCALITY PLAN
23-1098-C1001	GENERAL NOTES SHEET 1
23-1098-C1002	GENERAL NOTES SHEET 2
23-1098-C1010	GENERAL ARRANGEMENT PLAN
23-1098-C1020	TYPICAL SECTIONS SHEET 1
23-1098-C1021	TYPICAL SECTIONS SHEET 2
BULK EARTHWORKS	
23-1098-C1040	BULK EARTHWORKS CUT/FILL PLAN
23-1098-C1041	BULK EARTHWORKS SECTION
23-1098-C1042	DEMOLITION PLAN
SITEWORKS AND STORMWATER DRAINAGE	
23-1098-C1050	SITEWORKS AND STORMWATER PLAN SHEET 1
23-1098-C1051	SITEWORKS AND STORMWATER PLAN SHEET 2
23-1098-C1052	SITEWORKS AND STORMWATER PLAN SHEET 3
ROADWORKS LONGITUDINAL SECTIONS	SHEWONG AND STORMWATERT EAR SHEET 5
23-1098-C1060	ROADWORKS LONGITUDINAL SECTIONS SHEET 1
23-1098-C1061	ROADWORKS LONGITUDINAL SECTIONS SHEET 1
23-1098-C1062	ROADWORKS LONGITUDINAL SECTIONS SHEET 3
23-1098-C1063	ROADWORKS LONGITUDINAL SECTIONS SHEET 4
23-1098-C1064	ROADWORKS LONGITUDINAL SECTIONS SHEET 5
23-1098-C1065	ROADWORKS LONGITUDINAL SECTIONS SHEET 6
23-1098-C1066	ROADWORKS LONGITUDINAL SECTIONS SHEET 7
23-1098-C1067	ROADWORKS LONGITUDINAL SECTIONS SHEET 8
23-1098-C1068	ROADWORKS LONGITUDINAL SECTIONS SHEET 9
STORMWATER DRAINAGE	
23-1098-C1070	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
23-1098-C1071	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)
23-1098-C1072	BASIN 3A PLAN
23-1098-C1073	BASIN 3A SECTION
23-1098-C1074	BASIN 3B PLAN AND SECTION
WATER AND SEWER RETICULATION	
23-1098-C1080	WATER AND SEWER RETICULATION PLAN SHEET 1
23-1098-C1081	WATER AND SEWER RETICULATION PLAN SHEET 2
EROSION AND SEDIMENT CONTROL	
23-1098-C1090	EROSION AND SEDIMENT CONTROL PLAN
23-1098-C1091	EROSION AND SEDIMENT DETAILS
CONCEPT PLAN OF SUBDIVISION	
23-1098-C1100	PLAN OF SUBDIVISION
GOULBURN STREET EXTENSION	
23-1098-C2000	GOULBURN STREET SITEWORKS AND STORMWATER PLAN
23-1098-C2001	GOULBURN STREET TYPICAL SECTIONS
23-1098-C2002	GOULBURN STREET EROSION AND SEDIMENT CONTROL PLAN AND DETAILS
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			Bar Scales
А	ISSUE FOR DA	16-10-23	
P1	DRAFT ISSUE	09-06-23	
Issue	Description	Date	



LOCALITY PLAN

		Client	Scales		Drawn	NT	Project
				NTS	Designed	BK	1
		FDC	Grid	GDA2020	Checked	JC	
			Height Datum	AHD	Approved		Title
				GD	A2020		Title
			THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FO OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINA INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L				

EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au infa @rdf wat ar	N 2060 105 777
e COVER SHEET,	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
DRAWING LIST AND LOCALITY PLAN	Project - Drawing No. 23-1098-C1000	Issue A

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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 COMAPACTED 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 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 POTHOLING 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

- 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 1379. 3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- 4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.
- 7. REINFORCEMENT SYMBOLS: N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302 SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304
- NUMBER OF BARS IN GROUP T BAR GRADE AND TYPE

17 N 20 250

NOMINAL BAR SIZE IN mm

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

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

> - 125 MIN LAP TWO WIRES

FINISHED SURFACE LEVELS

Bar Scales ISSUE FOR DA 16-10-23 P1 DRAFT ISSUE 09-06-23 Date Description 100mm on Original

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.

- 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

- 5. 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) 6. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500.3 (2021).
- . ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- PAVEMENTS, UNSI OTTED UPVC SEWER GRADE PIPE IS TO BE USED. 10. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 1. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 12. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

KERBING NOTES

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

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

3. EXPANSION JOINTS (E,J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

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

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)
- (C) RUNOFF COEFFICIENTS: ROOF AREAS: C 100 =1.0
- EXTERNAL PAVEMENTS: C 100 =0.9
- 2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS "4" U.N.O.
- 3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- . EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL.
- 7. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- 9. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR
- 13. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

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

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

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

LAND DISTURBANCE

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

EROSION CONTROL

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

SEDIMENT CONTROL

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

OTHER MATTERS

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

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).



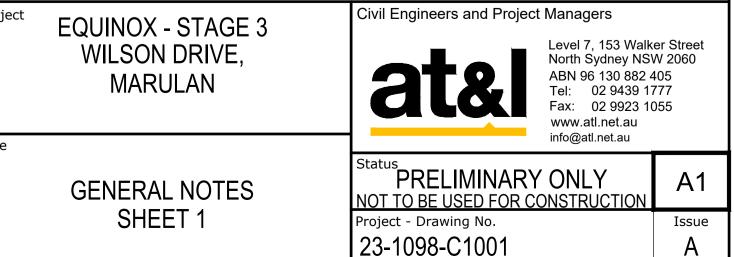
CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK



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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.
- 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. INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:
- EROSION AND SEDIMENT CONTROL;
- a. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES BEFORE CONSTRUCTION;

DRAINAGE; 2)

- TRENCH EXCAVATED, BEDDING MATERIAL PLACED AND PIPES/CONDUITS (SHOWING PIPE CLASS) LAID PRIOR TO BACKFILLING AND NON-COHESIVE GRANULAR BACKFILLING MATERIAL UP TO HAUNCH;
- FILTER MATERIAL PLACED IN SUBSOIL DRAINS PRIOR TO BACKFILLING; PIT WALLS, WING WALLS AND HEAD WALLS WITH REINFORCEMENT AND PLACE PRIOR TO CASTING;
- CONNECTION TO EXISTING SYSTEM PRIOR TO BACKFILLING; e. CHANNEL/WATERCOURSE TAIL OUT WORKS AFTER CONSTRUCTION;

- 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. SUB-GRADE ROLLER TEST (A VISUAL CHECK AND ROLLER TEST WITH 10T SMOOTH DRUM ROLLER) OR IN ACCORDANCE WITH TEST METHOD T198.
- 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.
- BASE COURSE BENKELMAN BEAN TEST CARRIED OUT BY NATA REGISTERED GEOTECHNICAL ENGINEER AT 10M INTERVALS.

WEARING SURFACE

- 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
- FOOTPATH, OFF-ROAD CYCLEWAY AND SHARED WAY WORKS; 5) CONCRETE FOOTPATHS, CYCLEWAYS, SHARED WAYS AND PATHWAYS FORMED AND REINFORCEMENT IN PLACE PRIOR TO PLACEMENT OF CONCRETE;
- 6) ON-SITE DETENTION SYSTEM (OSD);
- STEEL AND FORMWORK FOR TANK/PIT PRIOR TO PLACEMENT OF CONCRETE; PIPES UPSTREAM/DOWNSTREAM OF TANK/PIT PRIOR TO BACKFILLING;
- INSTALLATION OF STORMWATER QUALITY DEVICES;
- 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.
- 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.
- 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

- FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200 MM.
- FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS. REPORT SUBMITTED TO COUNCIL.
- 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).
- ENSURE GERMINATION.
- LANDCOM.

ROADWORKS NOTES

- ADAPTOR TO ALLOW CONNECTION OF 90 MM DIAMETER STORMWATER PIPE. ACCORDANCE WITH STANDARD DRAWING SD-R 10 A AND SD-R 10 B.
- SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ESSENTIAL ENERGY AND TELSTRA. PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS
- ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
- TRAFFIC COMMITTEE. 9. STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

STORMWATER NOTES

- ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
- GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- ENGINEER.
- OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- ADJACENT TO INTERALLOTMENT DRAINAGE LINES. 10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- AEP, FLOOD PLANNING LEVEL AND PROBABLE MAXIMUM FLOOD.
- ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

CONSTRUCTION AND MAINTENANCE PERIODS.

LANDSCAPING NOTES

- 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. 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.
- 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
А	ISSUE FOR DA	16-10-23	
P1	DRAFT ISSUE	09-06-23	
Issue	Description	Date	
	100mm on Original		

Client	Scales		Drawn	NT	Project	EQUINOX - STAGE 3	Civil Engineers and Project Managers		
		NTS	Designed	BK		WILSON DRIVE,	Level 7, 153 Walk North Sydney NS	W 2060	
	Grid	GDA2020	Checked	JC		MARULAN	ABN 96 130 88 Tel: 02 9439 Fax: 02 9923	777	
	Height Datum	AHD	Approved		Title		www.atl.net.au info@atl.net.au		
	- AS	G	DA2020		The	GENERAL NOTES	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1	
	OR USED F	DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM SED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			SHEET 2	Project - Drawing No. 23-1098-C1002	Issue A		

TREES SHALL BE STAKED WITH THREE 1800 MM X 50 MM SQUARE HARDWOOD STAKES AND LOOSELY SECURED WITH HESSIAN

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 STREET TREES SHALL BE ADVANCED SPECIMENS HAVING A CONTAINER VOLUME OF 25 LITRES AND A HEIGHT OF AT LEAST 1.5M. THE

12. ADEQUATE PERMANENT SCOUR PROTECTION AND SEDIMENTATION CONTROL SHALL BE PROVIDED FOR ALL DRAINAGE WORKS IN 13. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE

9. INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED 11. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1%

7. ALL INTERALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150 MM AND A MINIMUM GRADE OF 1% UNLESS 8. ALL INTERALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE

6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPA AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL

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

2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED 3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL

DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL

NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750 MM. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 '111RETRO-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

4. LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL IN

SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE). 150 X 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE

SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.

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

ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50 MM TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE. 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

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 4. IN THE EVENT THAT ANY AREAS OF POTENTIAL SITE CONTAMINATION ARE DISCOVERED DURING WORKS, WORK SHALL CEASE AND THE

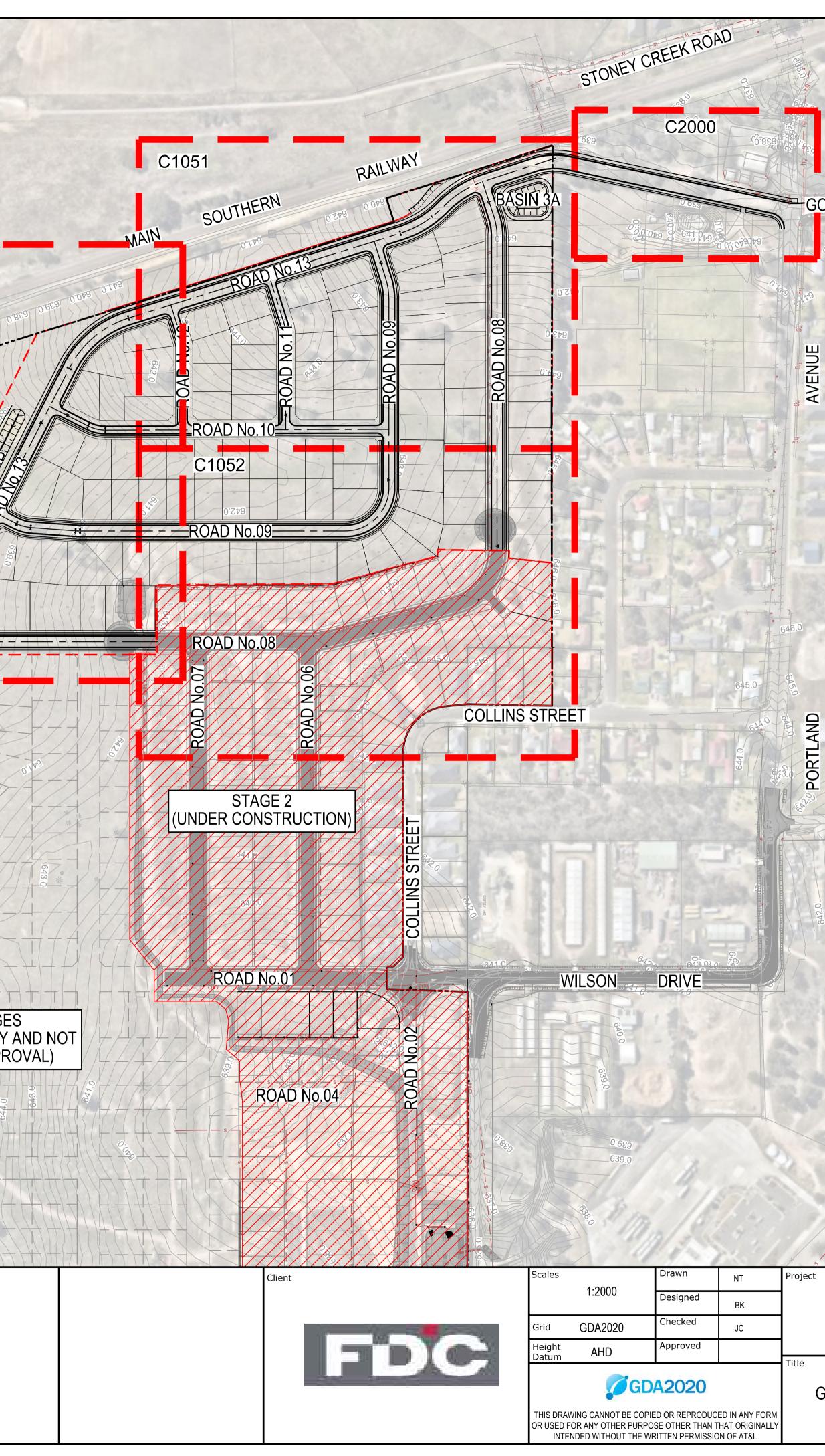
COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE

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

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

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Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 12 Fax: 02 9923 10 www.atl.net.au info@atl.net.au	N 2060 105 777
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Project - Drawing No.	Issue
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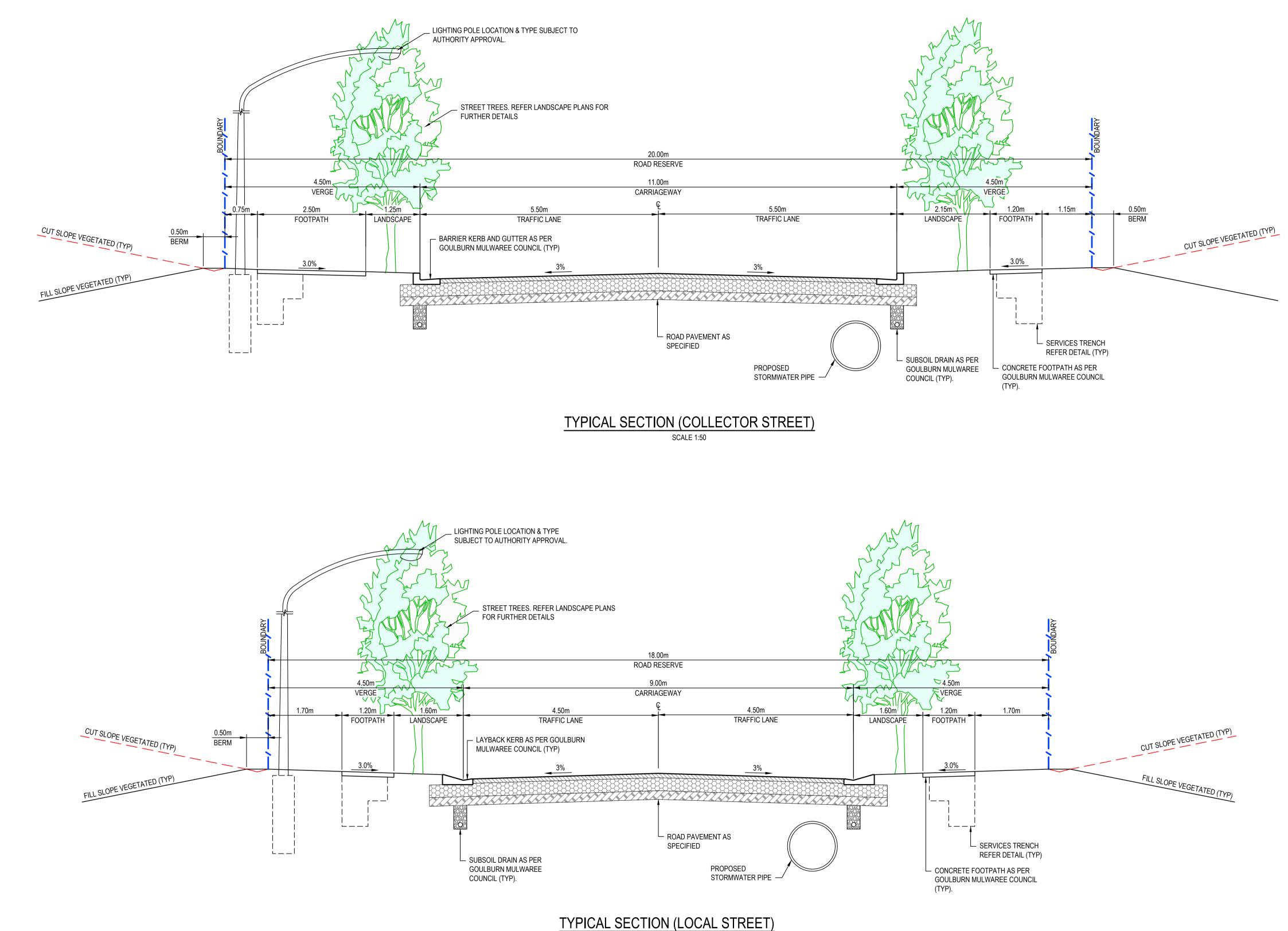
Civil Engineers and Project Managers

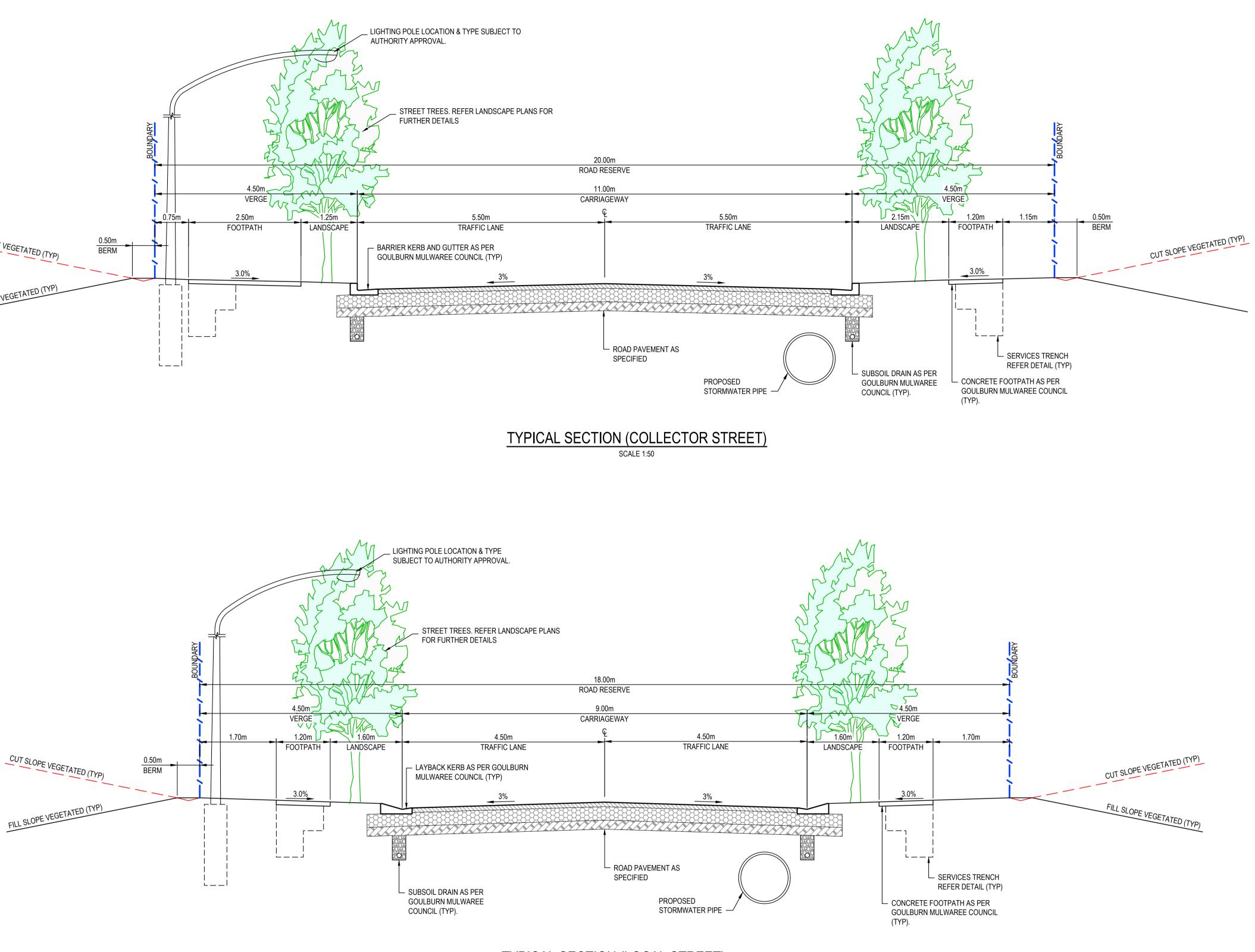


EQUINOX - STAGE 3 WILSON DRIVE,

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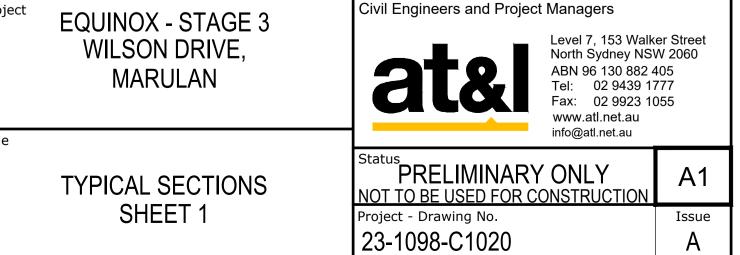
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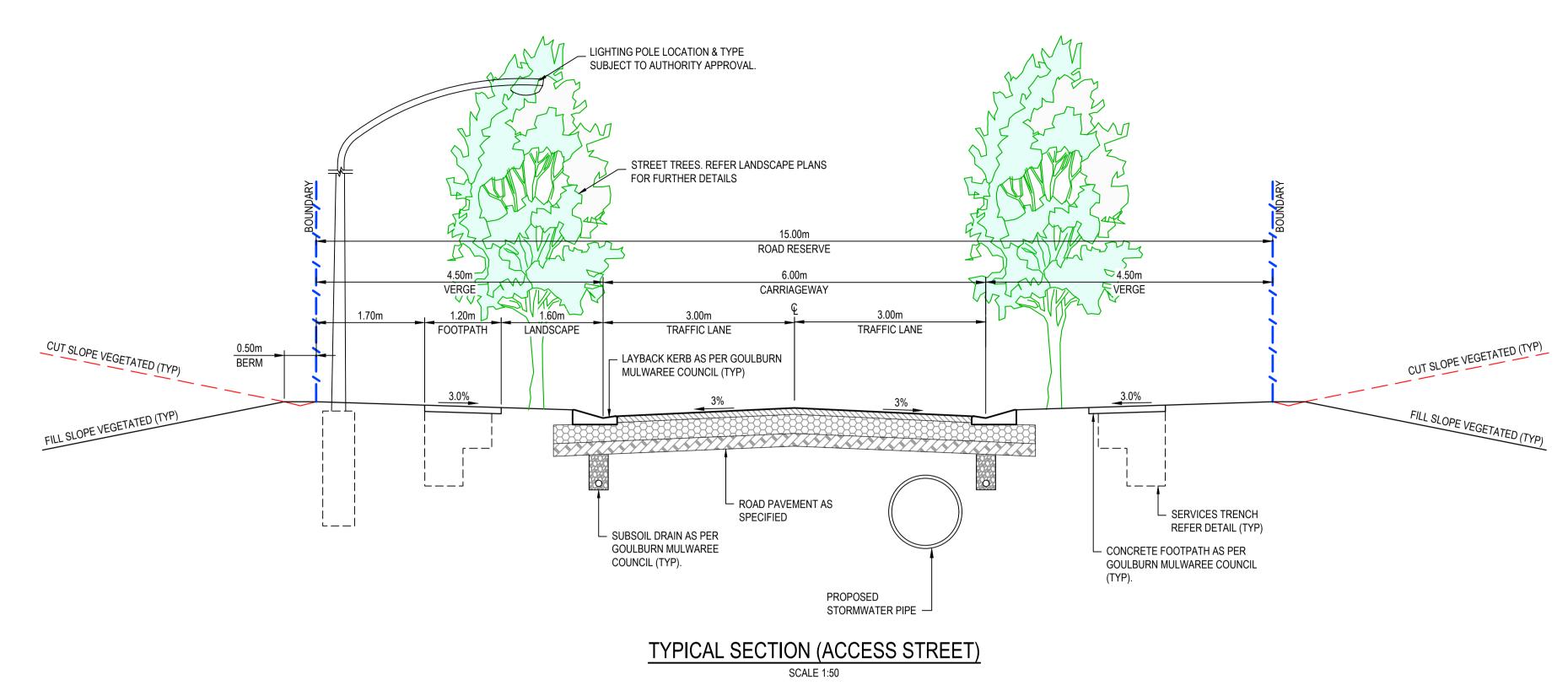


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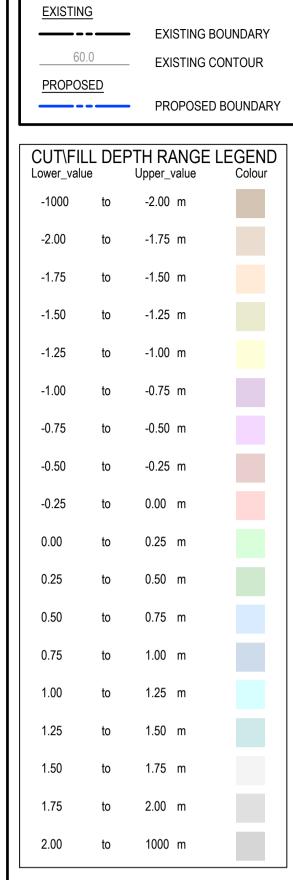


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LEGEND:



NOTES:

- 1. 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 :-
- 5.1. BULKING FACTORS OF REMOVED CUT 5.2. REMOVAL OF EXISTING BUILDING SLABS
- AND PAVEMENTS
- 5.3. REMOVAL AND\OR REMEDIATION OF ANY
- EXISTING UNCONTROLLED FILL
- 5.4. PROPOSED LANDSCAPING

ISSUE FOR DA

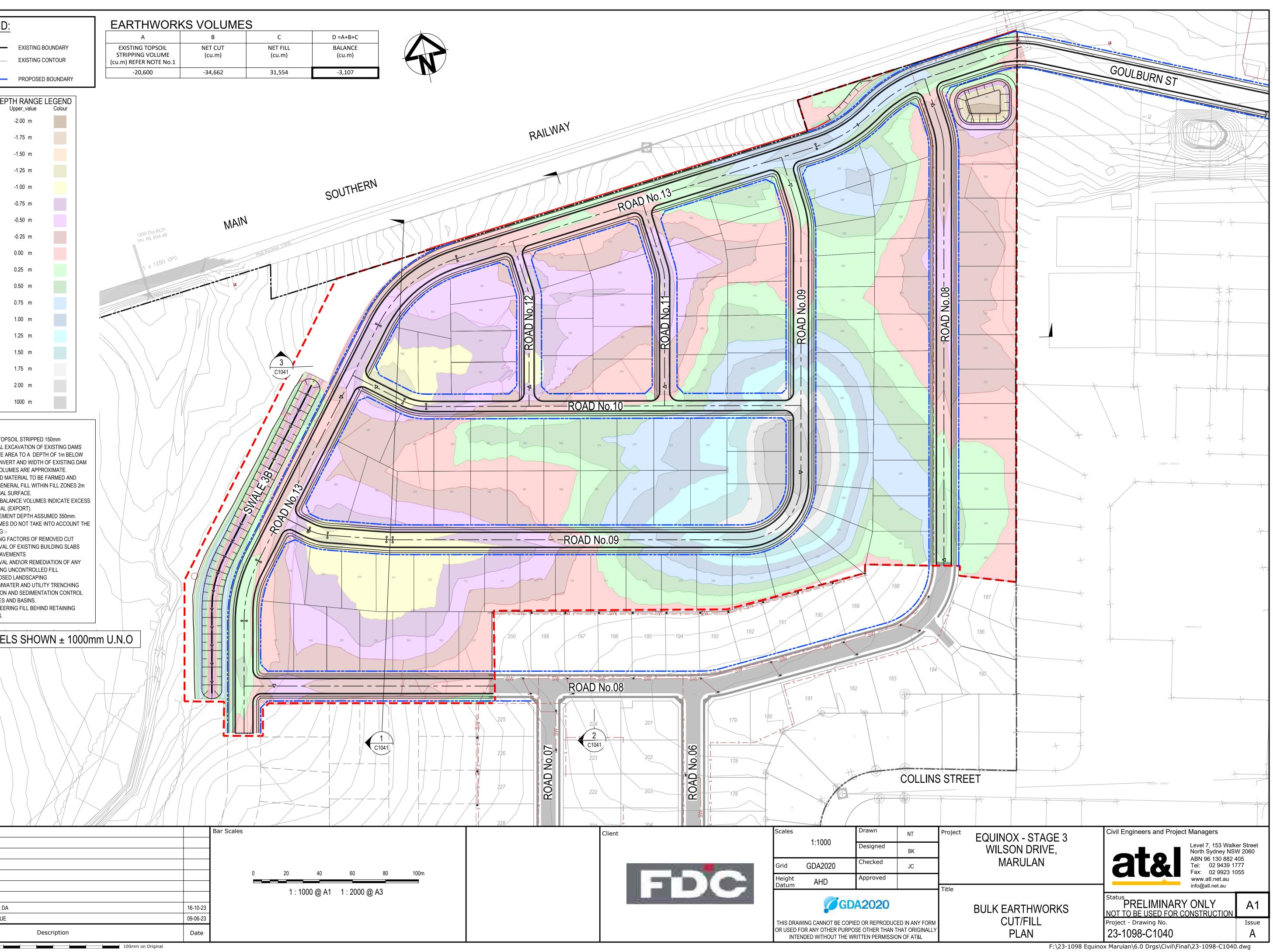
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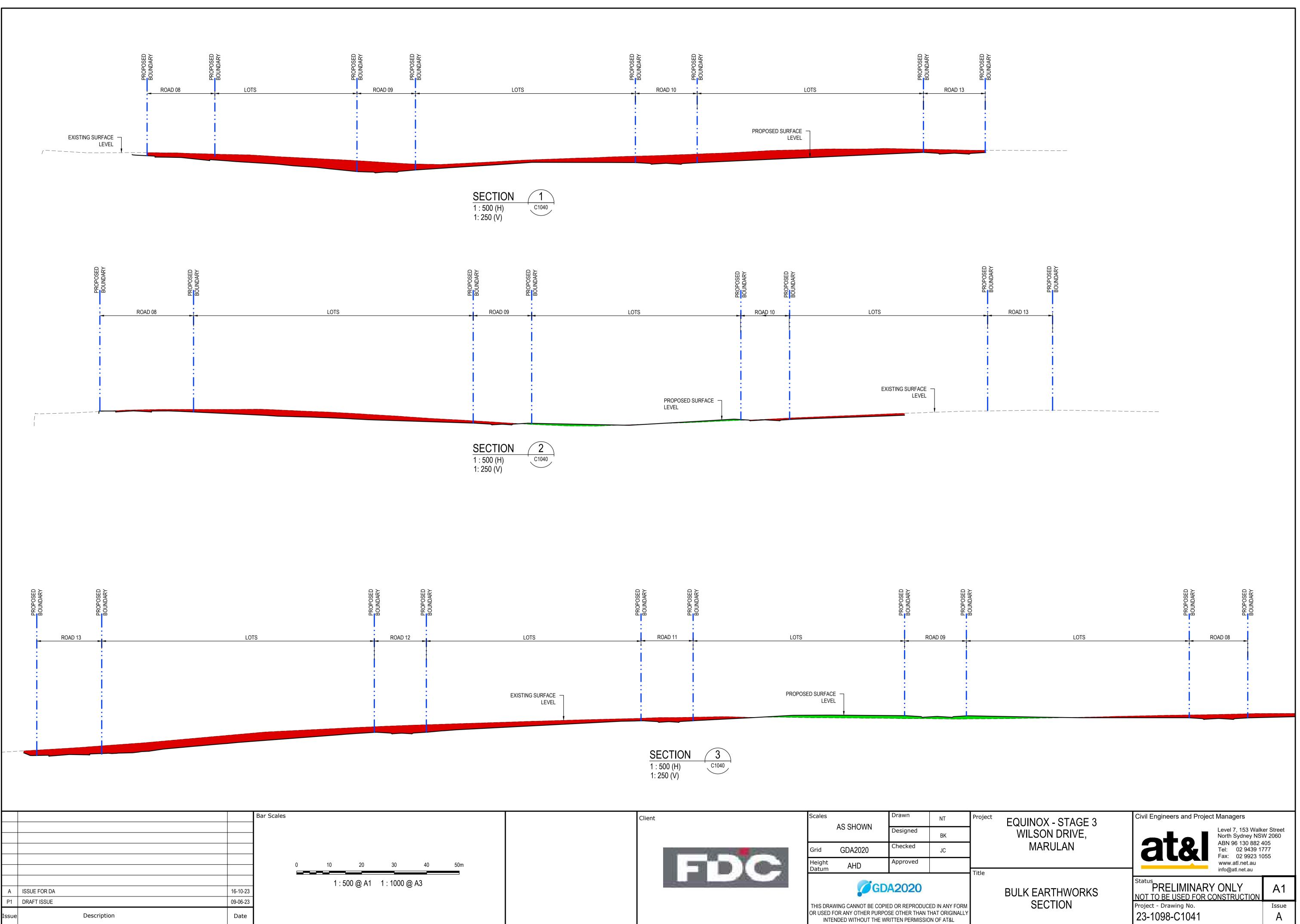
- 5.5. STORMWATER AND UTILITY TRENCHING 5.6. EROSION AND SEDIMENTATION CONTROL
- SWALES AND BASINS.
- 5.7. ENGINEERING FILL BEHIND RETAINING WALLS.

ALL LEVELS SHOWN ± 1000mm U.N.O

Description

		<u> </u>	
А	В	С	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

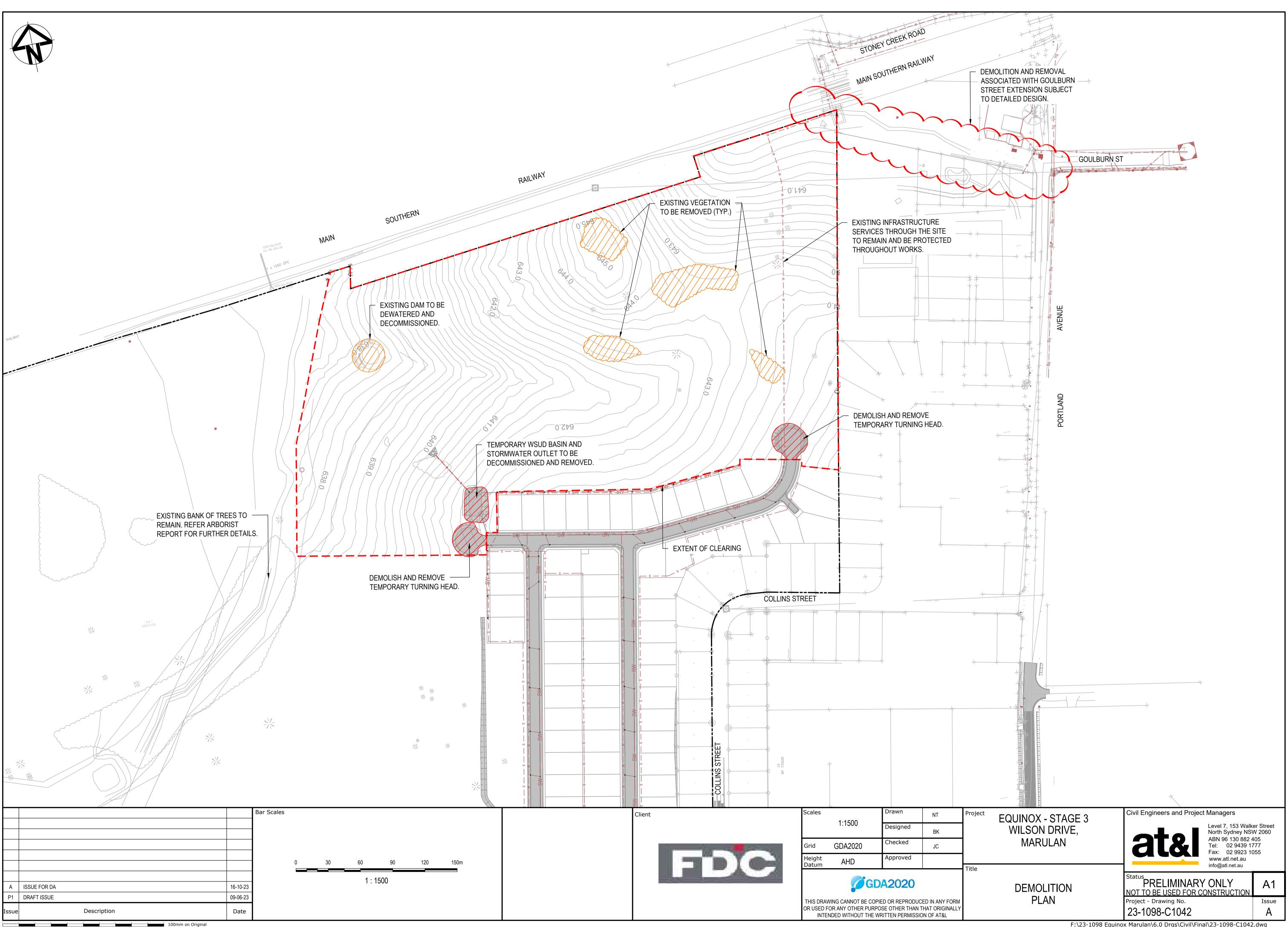




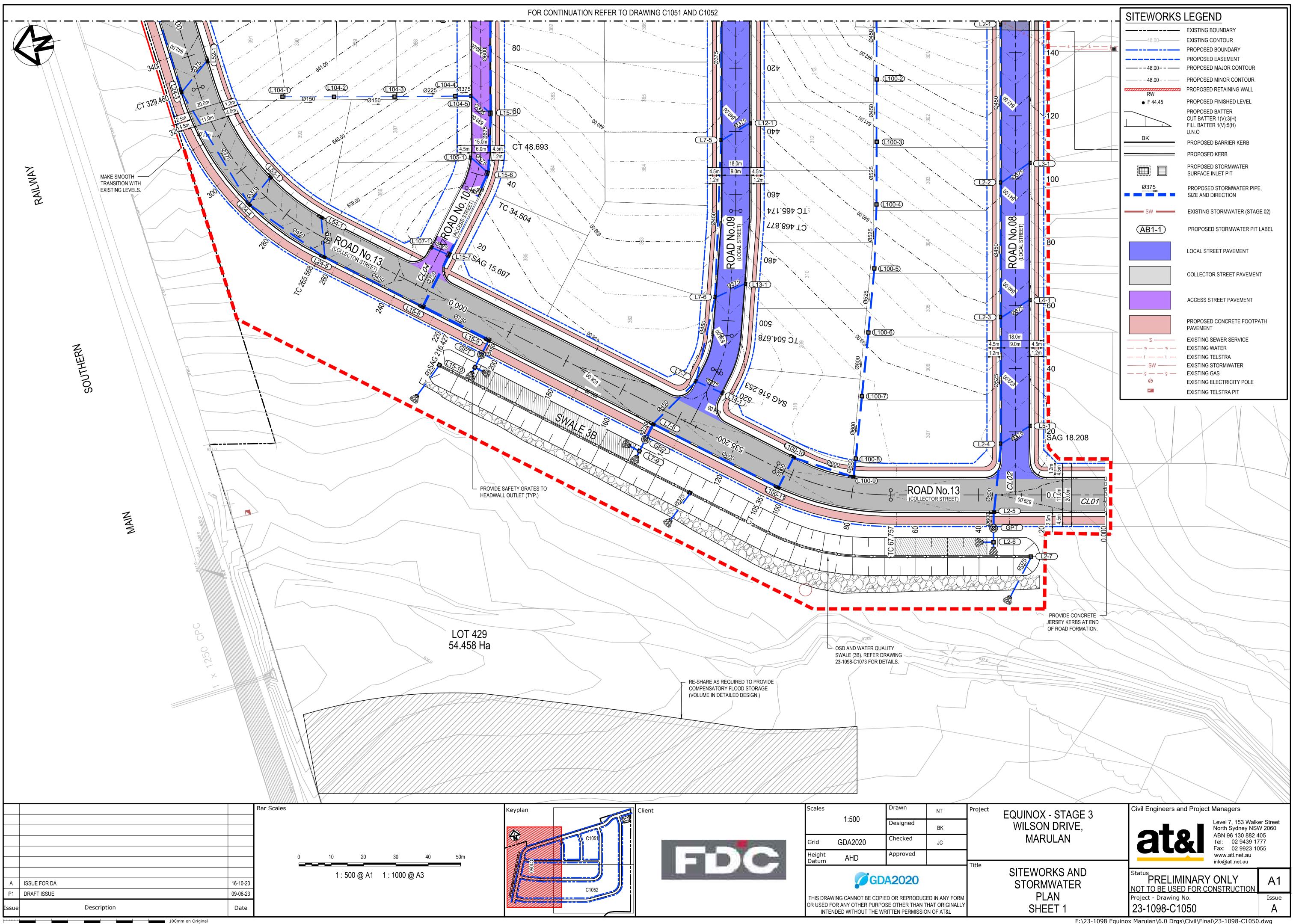
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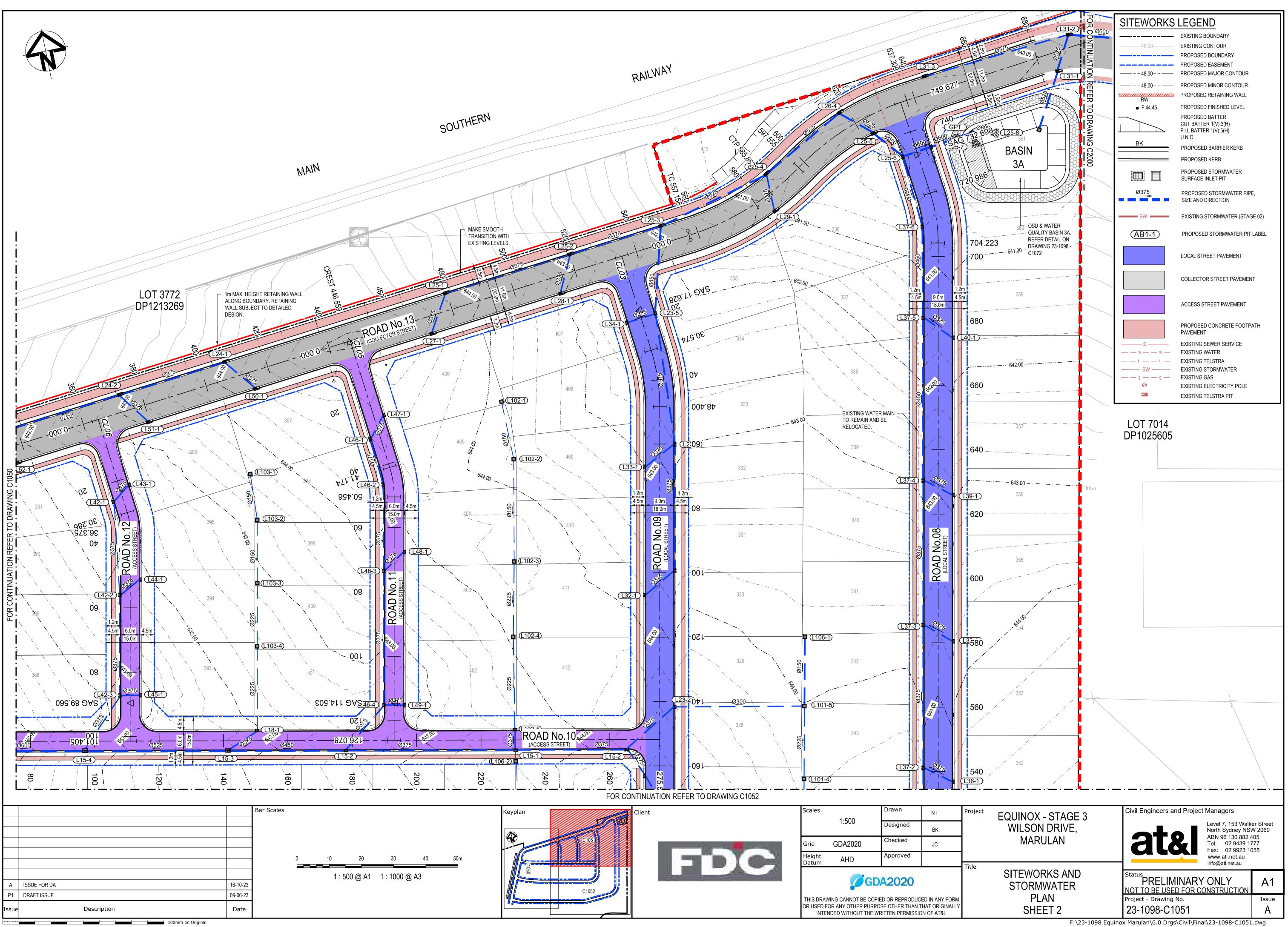
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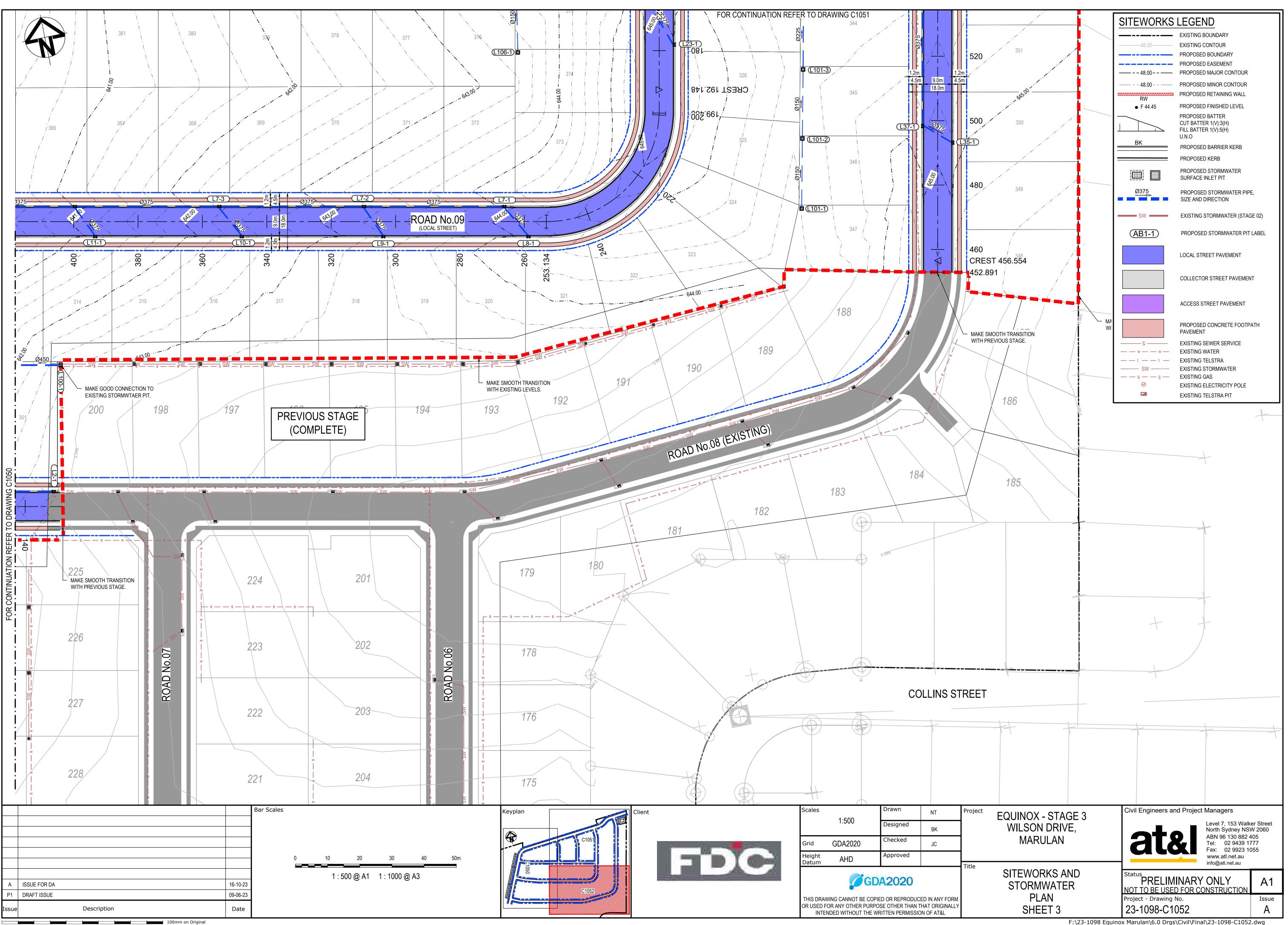


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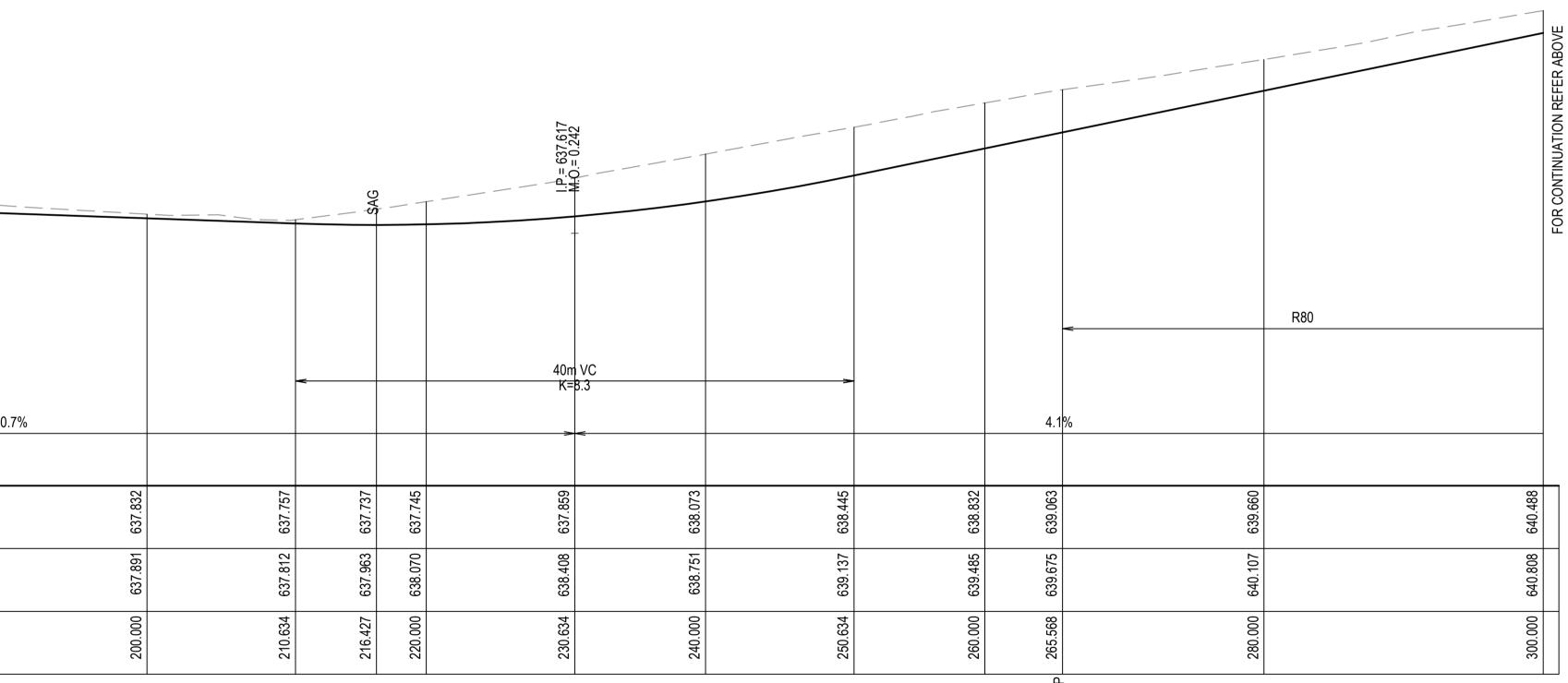
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Issue	Description	Date			-			

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

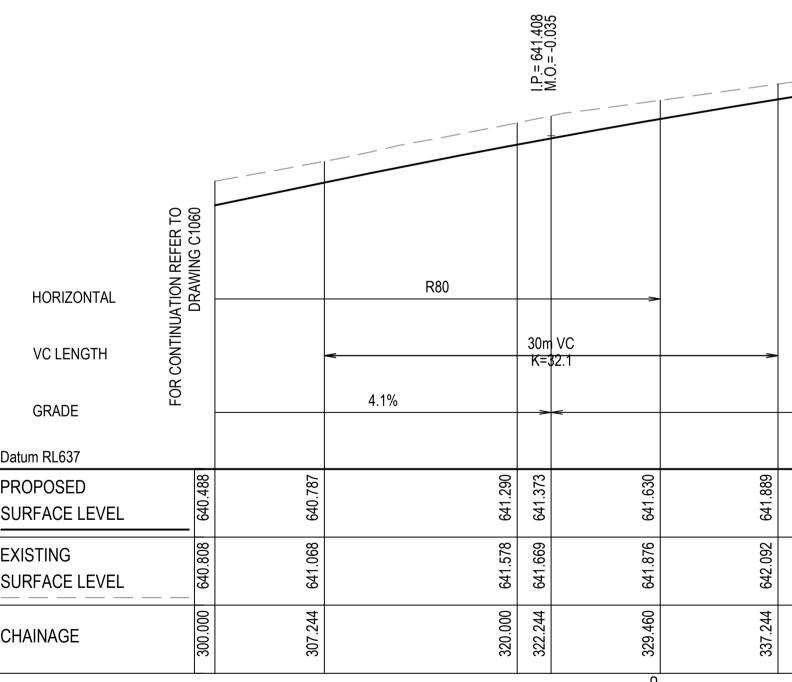


ROAD 13 LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

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m		FDC		GD	A2020		- Title	ROADWORKS LONGITUDINAL	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1		
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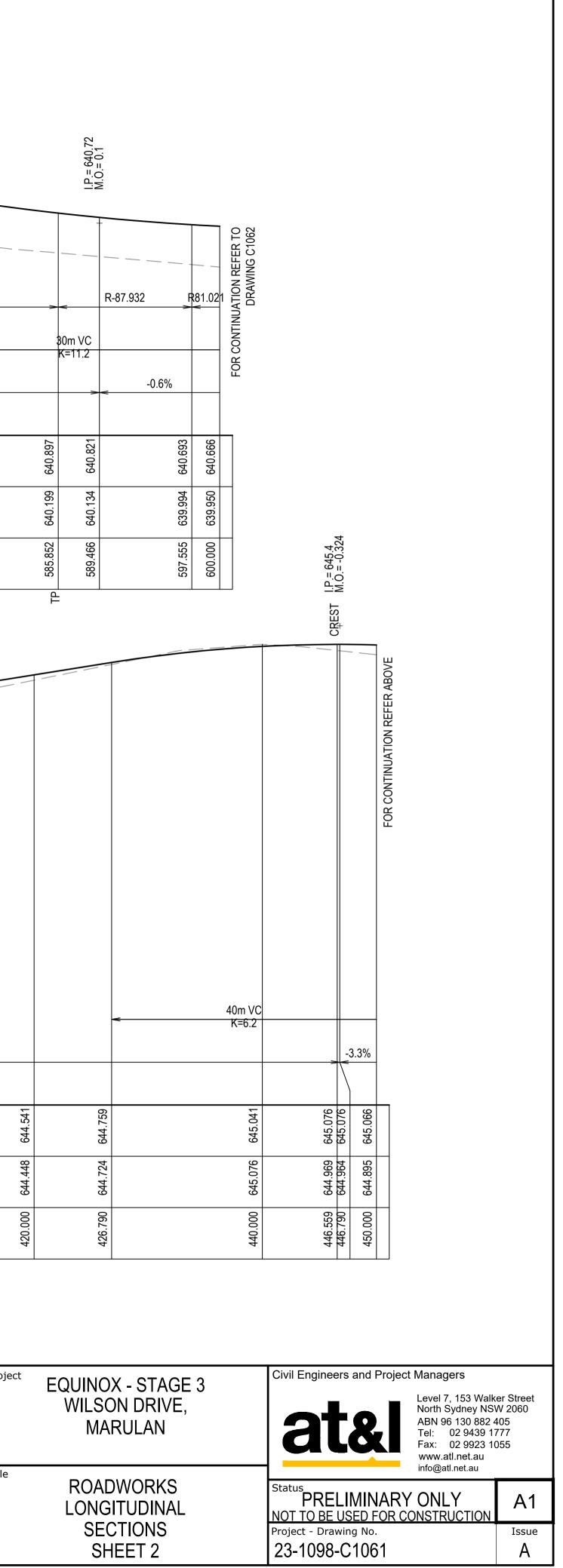
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NAGE	460	466		48 I P = 641 408	M.O.= -0.035		2	ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
IAGE	460	466			M.O.= -0.035		2	ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
NAGE	460	466						ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
NAGE	460	R TO 1060 466						ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
VAGE	460 460	REFER TO ING C1060 466						ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
NAGE	HORIZONTAL	ATION REFER TO DRAWING C1060						ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
JAGE	HORIZONTAL	NTINUATION REFER TO DRAWING C1060	R	0				ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
AGE		NO	<	0				ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION						
AGE	HORIZONTAL	FOR CONTINUATION REFER TO DRAWING C1060	R80	0				ROAD 13 LONGITUDINAL SCALE 1:500 HORI. 1:100 VERT.	SECTION		3.2%				
AGE	HORIZONTAL VC LENGTH	FOR CON	<	0 30 Ki	0m VC =32.1			SCALE 1:500 HORI. 1:100 VERT.							
AGE	HORIZONTAL VC LENGTH GRADE Datum RL637 PROPOSED	NO	4.1%	0 30 Ki	0m VC =32.1	41.630		SCALE 1:500 HORI. 1:100 VERT.	29		3.2%		13.900		
AGE	HORIZONTAL VC LENGTH GRADE Datum RL637 PROPOSED SURFACE LEVEL	FOR CON	4.1%	641.290 641.290 8.41 373	0m VC = 32.1	641	641.889 641.977	SCALE 1:500 HORI. 1:100 VERT.	642.618		643.259		643.		
AGE	HORIZONTAL VC LENGTH GRADE Datum RL637 PROPOSED SURFACE LEVEL EXISTING	FOR CON	4.1%	641.290 641.290 8.41 373	0m VC = 32.1		641.889 641.977	SCALE 1:500 HORI. 1:100 VERT.	29		.259				
IAGE	HORIZONTAL VC LENGTH GRADE Datum RL637 PROPOSED SURFACE LEVEL EXISTING SURFACE LEVEL	40.808 640.488 FOR CON	e41.068 640.787 787 640.787	641.578 641.290 641.290 00 00 00 00 00 00 00 00 00 00 00 00 0	0m VC = 32.1	641.876 641	642.1092 641.889 642.168 641.977	SCALE 1:500 HORI. 1:100 VERT.	642.689 642.618		643.153 643.259		643.747 643.		
JAGE	HORIZONTAL VC LENGTH GRADE Datum RL637 PROPOSED SURFACE LEVEL EXISTING	FOR CON	0068 640.787 4.1%	641.290 641.290 8.41 373	0m VC = 32.1	1.876 641	641.889 641.977	SCALE 1:500 HORI. 1:100 VERT.	689		43.153 643.259		3.747 643.		
NAGE	HORIZONTAL VC LENGTH GRADE Datum RL637 PROPOSED SURFACE LEVEL EXISTING SURFACE LEVEL	FOR CON	e41.068 640.787 787 640.787	641.578 641.290 641.290 00 00 00 00 00 00 00 00 00 00 00 00 0	0m VC = 32.1	641.876 641	642.1092 641.889 642.168 641.977	SCALE 1:500 HORI. 1:100 VERT.	000 642.689 642.618		380.000 643.153 643.259		.000 643.747 643.		



			Bar Scales						
				0	10	20	30	40	50m
					1:5	00 @ A1	1 : 1000 @) A3	
				0	2	4	6	8	10m
А	ISSUE FOR DA	16-10-23	1			+			
P1	DRAFT ISSUE	09-06-23]		1:1	00 @ A1	1 : 200 @	A3	
Issue	Description	Date							
	100mm	on Original							

	Client	Scales		Drawn	NT	Proje
			AS SHOWN	Designed	ВК]
		Grid	GDA2020	Checked	JC]
		Height Datum	AHD	Approved		Title
			GD	A2020		The
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			CAMD - 638 17	M.O.= 0.16		
HORIZONTAL						
VC LENGTH			<u><</u> 20	0m VC (=3.1	>	
GRADE	-	<	3%			
Datum RL635						
PROPOSED SURFACE LEVEL	639.035	638.770	638.629	638.630 638.634	638.810	639.190
EXISTING SURFACE LEVEL	638.671	638.817	639.031	639.046 639.074	639.273	639.536
CHAINAGE	0.000	8.841	18.208	18.841 20.000	28.841	40.000
					1	1

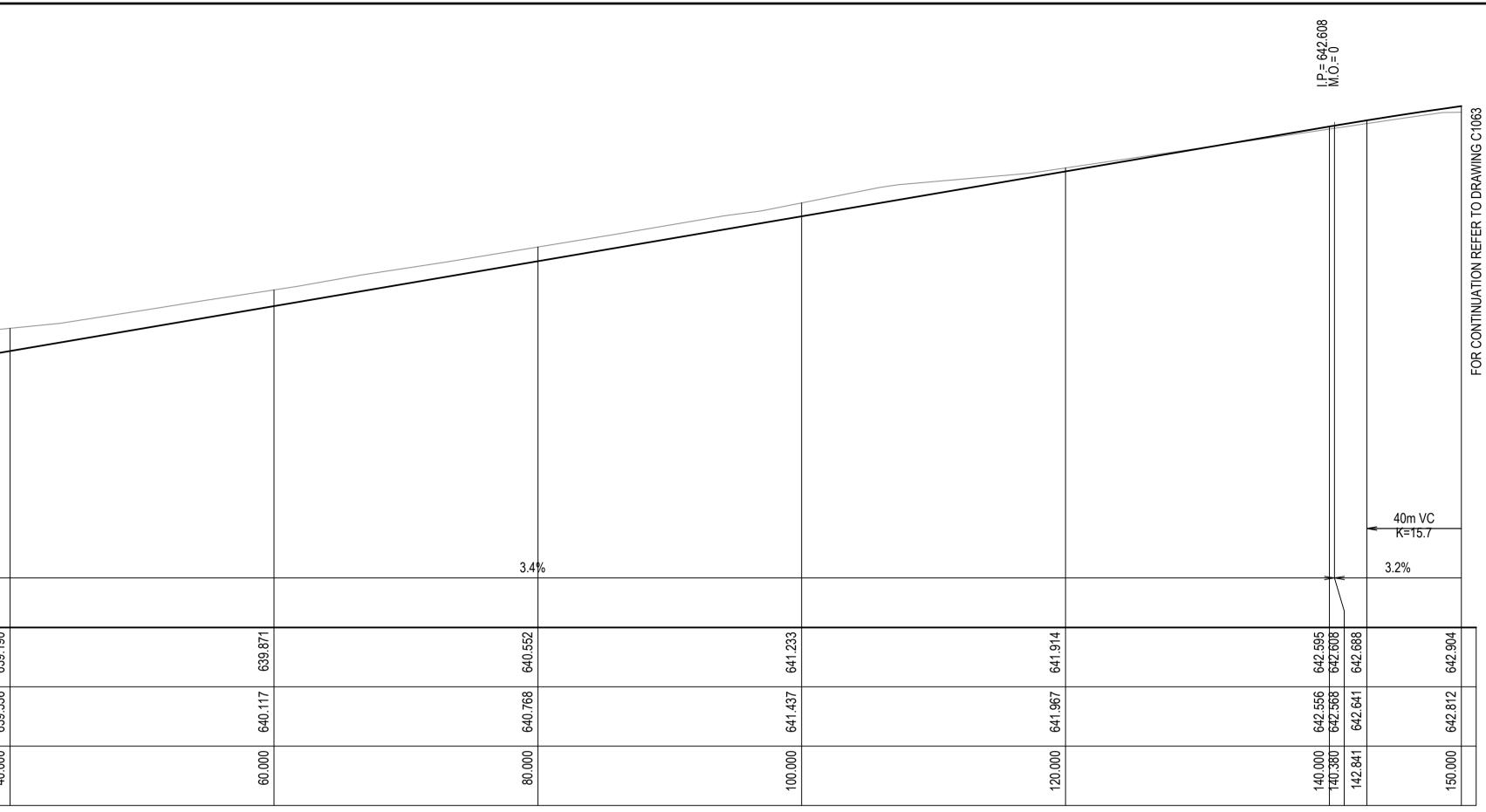
					I.P.= 640.212	M.U.= -U.(
HORIZONTAL	REFER TO DRAWING C1061	R81.02	21					
VC LENGTH GRADE	FOR CONTINUATION REFER	C 2 ²	-0.6%		<25r K=	n VC 10.8	-2.9%	
Datum RL636	Ĕ							
PROPOSED SURFACE LEVEL	640.666	640.630 640.537	640.417 640.417	640.297	640.140	640.020	639.848	639.537
EXISTING SURFACE LEVEL	639.950	639.801 639.801	639.815 639.815	639.809	639.777	639.712	639.636	639.537
CHAINAGE	600.000	620.000	640.000	660.000 664.676	674.075	680.000	686.575	697.219

		Bar Scales	Client	Scales		Drawn	NT	Proj
		0 10 20 30 40 50m			AS SHOWN	Designed	ВК	1
				Grid	GDA2020	Checked	JC	
		1 : 500 @ A1 1 : 1000 @ A3		Height Datum	AHD	Approved		Title
	40.40.00	0 2 4 6 8 10m			GD	A2020		
DRAFT ISSUE								
Description	Date			OR USED I	FOR ANY OTHER PURPC	SE OTHER THAN T	HAT ORIGINALLY	
		DRAFT ISSUE 09-06-23	Image:	Image: Control of the control of th	Image: Control of the control of th	Image: Control of the control of th	Image: Control of the control of th	Image: construction of the construc

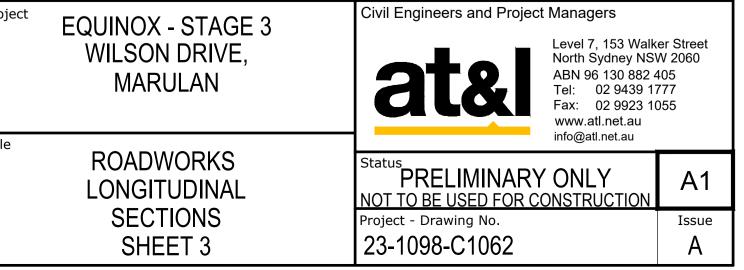
ROAD 13 LONGITUDINAL SECTION

SCALE 1:500 HORI. 1:100 VERT.





- GOULBURN STREET EXTENSION



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А	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23
Issue	Description	Date
<u> </u>	100mm on Original	

Client	Scales	Drawn	NT	Project EQUINOX - STAGE 3	Civil Engineers and Project Managers
	AS SHOWN	Designed	вк	WILSON DRIVE,	Level 7, 153 Walker Stre North Sydney NSW 2060
	Grid GDA2020	Checked	JC	MARULAN	ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055
	Height AHD Datum	Approved		Title	www.atl.net.au info@atl.net.au
	GD	A2020		ROADWORKS	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION
	OR USED FOR ANY OTHER PURPC	SE OTHER THAN T	HAT ORIGINALLY		Project - Drawing No. Iss 23-1098-C1063
	Client	AS SHOWN Grid GDA2020 Height AHD With Comparison of the comp	Client AS SHOWN Designed Grid GDA2020 Checked Height AHD Approved Designed Height AHD Approved THIS DRAWING CANNOT BE COPIED OR REPRODUC OR USED FOR ANY OTHER PURPOSE OTHER THAN T	Client AS SHOWN Designed BK Grid GDA2020 Checked JC Height AHD Approved Datum AHD Approved THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM	Client AS SHOWN Designed BK Grid GDA2020 Checked JC Height AHD Approved Datum AHD Approved Title ROADWORKS LONGITUDINAL SECTIONS SHEET 4

		I.P.= 643. M.O.= -0						/_	·		ц
											REFER ABO
HORIZONTAL	JATION REFER TO DRAWING C1062							~	R-60	>	ONTINUATION F
VC LENGTH	NUATION DRAW		40m VC K=15.7 >								FOR CO
GRADE		3.2%	<			0.7%					
Datum RL640	Щ										
PROPOSED SURFACE LEVEL	642.904	643.151 643.210	643.476 643.476	643.595	643.734	643.872	644.011	644.120	644.149	644.231	644.288
EXISTING SURFACE LEVEL	642.812	642.950 642.999	643.370 643.370	643.599	643.900	644.150	644.356	644.416	644.403	644.450	644.463
CHAINAGE	150.000	160.000 162.841	180.000 182.841	200.000	220.000	240.000	260.000	275.717	280.000	291.833	300.000
L	II		E	KISTING —	ROAD 08 LONGITUDINA	L SECTION			I		



	ELOW								
HORIZONTAL					<	R-45			
VC LENGTH							10n K =	VC	
GRADE			0.7	%				0.1%	
Datum RL641	FOR (
ROPOSED URFACE LEVEL	644.288	644.565	644.704	644.842	644.941	645.120	645.212 645.239	645.245 645.252	645.258
XISTING JRFACE LEVEL	644.467 644.467	644.540	644.635	644.734	644.840 644.897	644.991	645.068 645.082	645.072 645.045	644.978
HAINAGE	320.000	340.000	360.000	380.000	394.292	420.000	433.303 438.303 438.303	440.000 443.303	450.000
					L ₽		I		

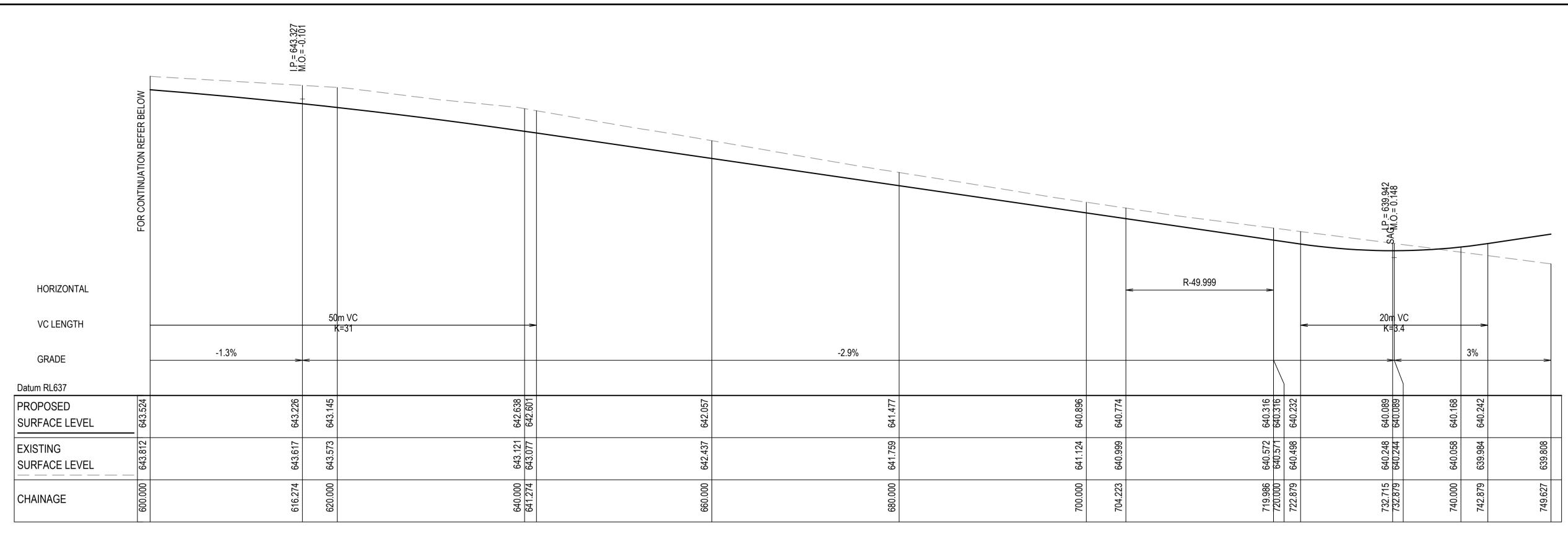
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	1:100	VER	Ι.	

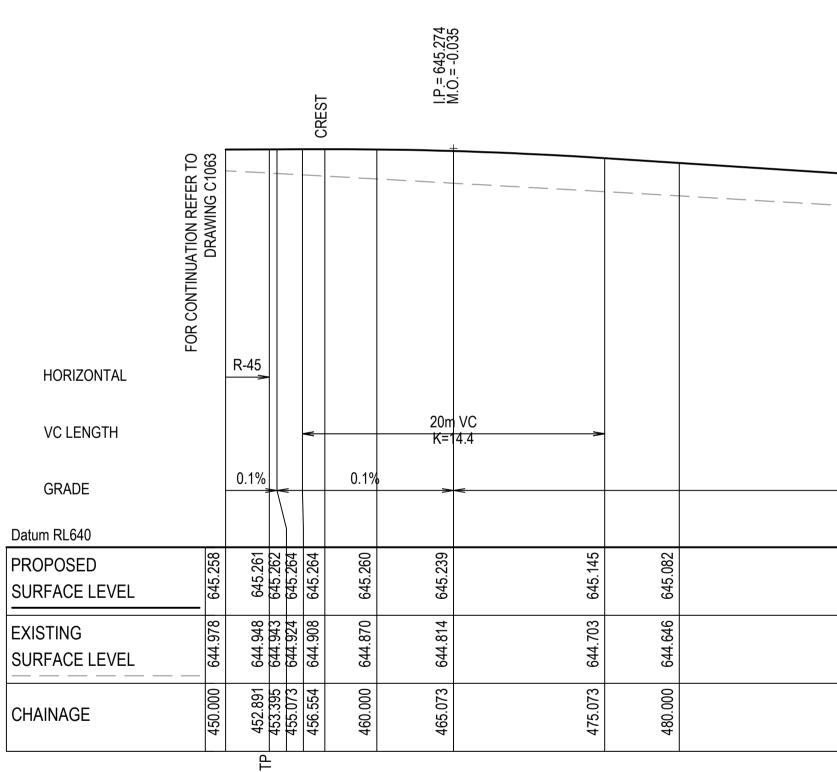
ROAD 08 LONGITUDINAL SECTION

SCALE 1:500 HORI. 1:100 VERT.

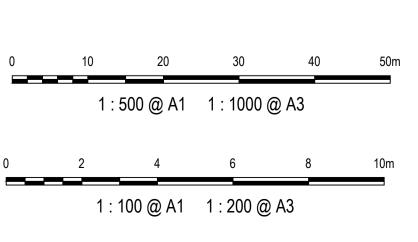
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I.P.= 645.246 M.O.= -0.007





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			Bar Scales
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			0
А	ISSUE FOR DA	16-10-23	
P1	DRAFT ISSUE	09-06-23	
Issue	Description	Date	
	100mm on Original	1	<u>.</u>

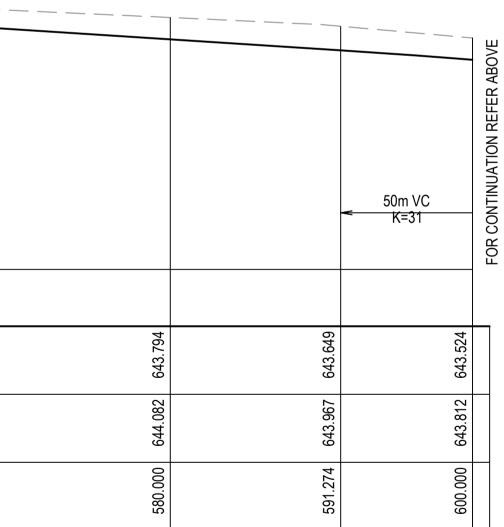


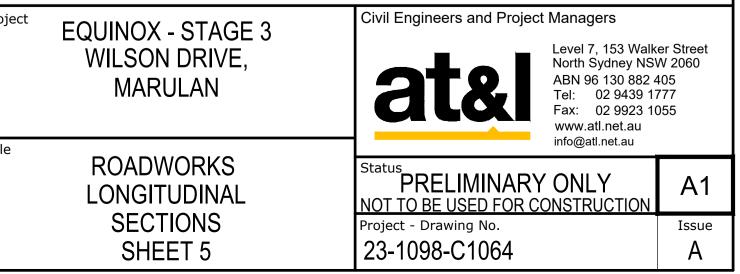
ROAD 08 LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

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		-1.3%		
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644.824	644.567	644.309	644.051	
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644.441	644.304	644.245	644.211	
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500.000	520.000	540.000	560.000	
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.00		0.0	0.0	
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20	22,	24	26	

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

	Client	Scales		Drawn	NT	Projec
			AS SHOWN	Designed	ВК	
		Grid	GDA2020	Checked	JC	
		Height Datum	AHD	Approved		Title
			GD	A2020		The
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1.P.= 645.472 CREST M.O.= -0.239

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	ATION REF												VG C1066
	R CONTINU												TO DRAWIN
HORIZONTAL	10 10					-			R35.002	->			REFER
VC LENGTH			۷		50m VC K=13.1		>						NUATION
GRADE			2%						-1.9%				CONTI
Datum RL639													FOR
PROPOSED SURFACE LEVEL	644.660	644.855	644.984	645.177	645.233 645.233	645.213 645.213	645.005	644.941	644.567	644.322	644.193	643.819	643.445
EXISTING SURFACE LEVEL	642.845	642.793	642.810	642.873	642.930 642.930	642.977 642.984	643.079	643.071	642.961	642.838	642.760	642.629	642.500
CHAINAGE	150.000	160.000	166.607	180.000	191.607 192.148	199.400 200.000	216.607	220.000	240.000	253.134	260.000	280.000	300.000

			I.P.= 642.034 M.O.= 0.124	SAG										FOR CONTINUATION REFER ABOVE
HORIZONTAL						<	R59	.001 >						
VC LENGTH		<	20m VC K≢4		>									
GRADE	<	-3%	><							2%				
Datum RL638														
PROPOSED SURFACE LEVEL	642.499 642.39		642.158 642.152	642.159	642.229	642.328	642.512	642.676	642 902	643.293	643.683	644.074	644.465	644.660
EXISTING SURFACE LEVEL	641.567 641.567		641.818 641.847	641.880	641.982	642.085	642.351	642.591	642 876	643.268	643.388	643.225	642.923	642.845
CHAINAGE	0.000 5 513	2	15.513 17 628	20.000	25.513	30.574	40.000	48.400	60 000	80.000	100.000	120.000	140.000	150.000
					I					ONGITUDINAL SECTION	I		I	

			Bar Scales	
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A	ISSUE FOR DA	16-10-23	0	
P1	DRAFT ISSUE	09-06-23		
Issue	Description	Date		
	100mm on Original	1	<u>.</u>	

es	Client	Scales	Drawn	NT	Project
0 10 20 30 40 50m		AS SHOWN	Designed	BK	1
		Grid GDA2020	Checked	JC	1
1 : 500 @ A1 1 : 1000 @ A3		Height AHD	Approved		
0 2 4 6 8 10m 1 : 100 @ A1 1 : 200 @ A3					T itle
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ROAD 09 LONGITUDINAL SECTION

SCALE 1:500 HORI. 1:100 VERT.

ROAD 09 LONGITUDINAL SECTION

SCALE 1:500 HORI. 1:100 VERT.

EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	W 2060 405 777
ROADWORKS LONGITUDINAL SECTIONS	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION Project - Drawing No	A1
SHEET 6	Project - Drawing No. 23-1098-C1065	Issue A

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А	ISSUE FOR DA	16-10-2
P1	DRAFT ISSUE	09-06-2
Issue	Description	Date
	100mm on Original	

	Bar Scales	Client	Scales		Drawn	NT	Project
	0 10 20 30 40 50m			AS SHOWN	Designed	ВК	1
			Grid	GDA2020	Checked	JC	1
	1 : 500 @ A1 1 : 1000 @ A3		Height Datum	AHD	Approved		
	0 2 4 6 8 10m			CICD	A2020		Title
-23 -23							
te			OR USE	AWING CANNOT BE COPI FOR ANY OTHER PURPC TENDED WITHOUT THE WI	SE OTHER THAN 1	THAT ORIGINALLY	

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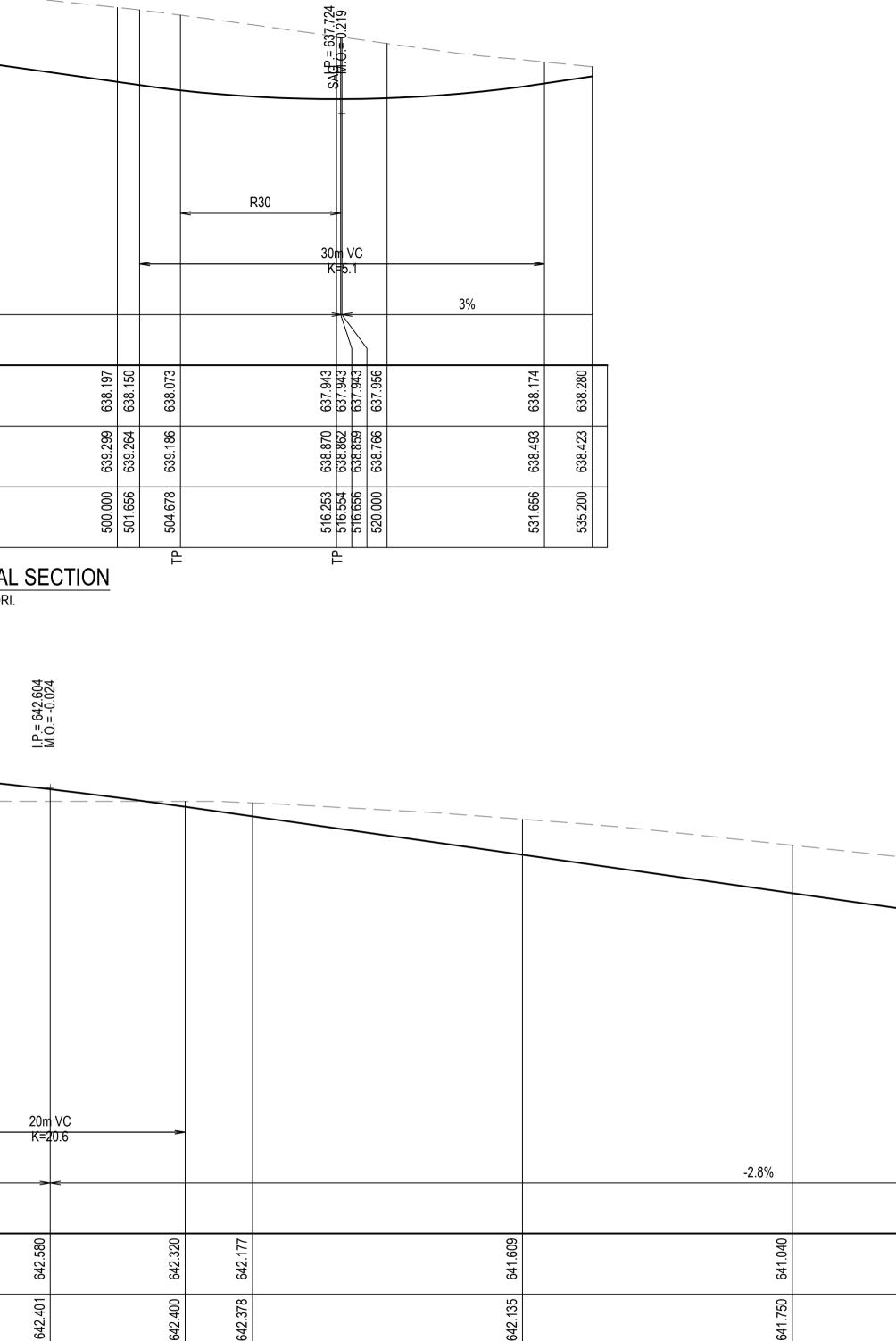
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	FOR CONTINUATION REFER TO DRAWING C				
HORIZONTAL					
VC LENGTH				<	
GRADE			-1.9%		
Datum RL636					
PROPOSED SURFACE LEVEL	643.445	643.071	642.791	642.691	
EXISTING SURFACE LEVEL	642.500	642.422	642.407	642.403	
CHAINAGE	300.000	320.000	335.000	340.000	

C10

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

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	ER					
	REF					
	lion					
	IUAT					
	NTIN					
	FOR CONTINUATION REFER BELOW					
	FOF					
				5-0		
HORIZONTAL				< R50		
VC LENGTH						
GRADE						-2.8%
Datum RL634						
PROPOSED	619	639.335	187	082	766	
SURFACE LEVEL	639.619	639.	639.187	639.082	638.766	
	— ⁴		33			
EXISTING	640.544	640.277	640.13	640.026	639.744	
		64	64	64	63	
	00(00	174	377	00(
CHAINAGE	450.000	460.000	465.174	468.877	480.000	
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ROAD 09 LONGITUDINAL SECTION

SCALE 1:500 HORI. 1:100 VERT.

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EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	Civil Engineers and Project Managers Level 7, 153 Walke North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au info@atl.net.au	N 2060 105 777
ROADWORKS	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
SECTIONS SHEET 7	Project - Drawing No. 23-1098-C1066	Issue A

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										I.P.= 644,174 M.O.= 0.035				
	>													
HORIZONTAL	EFER BELOW													
VC LENGTH								-		30m VC K=31.7				
GRADE	DR CONTIN			2	2.1%					><	3%			
Datum RL639 PROPOSED SURFACE LEVEL	641.940 FC		642.556	642.966		643.377		643.788 643.866 643.866		644.210 644.240		644.624 644.675		
EXISTING SURFACE LEVEL	641.909 - 642.060 (642.381	642.586		642.706		642.658 642.661 (642.690 (642.699 (642.812 (642.835 (
CHAINAGE	150.000		180.000	200.000		220.000		240.000 243.823		258.823 260.000		273.823 275.523		
				ROAD 10 LONGITU SCALE 1:50 1:100 VI	DINAL SECTION									
				1:100 VI	ERT.				0.88					
									I.P.= 640.88 M.O.= -0.152					ER ABOVE
														TION REFE
		<u>~</u>												FOR
		SAG I.P.= 6 M.O.=												
HORIZONTAL		20m \/C	<	R-30					50m \/C					
VC LENGTH	-3%	30m VC K≢4			4.5%	<			50m VC K=20.6			> 2.1%		
GRADE Datum RL634									><					
PROPOSED SURFACE LEVEL	637.758	637.577 637.588 637.600	637.980 638.017 638.263	638.653	639.159	639.761	640.045		640.729 640.780		641.321	641.394	641.734	641.940
EXISTING SURFACE LEVEL	638.494	638.771 638.818 638.837 638.837	639.034 639.050 639.186	639.474	639.864	640.268	640.433		640.933 640.983		641.432	641.496	641.777	641.909
CHAINAGE	-0.000 -0.000	15.697 18.663 20.000	33.663 34.504 40.000	48.693	60.000	73.426	80.000		98.426 100.000		120.000	123.426	140.000	150.000
L	 ₽			ц Ц	ROAD 10 LONGI	TUDINAL SEC	TION		I			I	I	

							I.P.= 644,174 M.O.= 0.035			
HORIZONTAL	FER BELOW									
VC LENGTH						<	30m VC K=31.7			
GRADE			2.1%				3%			
Datum RL639 PROPOSED SURFACE LEVEL	42.145 FO	42.556	42.966	43.377	43.788	43.866	44.210 344.240	44.624		
EXISTING SURFACE LEVEL	641.909 6 642.060 6	642.381	642.586	642.706 642.706	642.658	642.661 6	642.690 6	642.812 6 642.835 6		
CHAINAGE	150.000	180.000	200.000	220.000	240.000	243.823	258.823	273.823 275.523		
		ROA	AD 10 LONGITUDINAL SECT SCALE 1:500 HORI. 1:100 VERT.	ION						
			1.100 VER1.			40.88 -0.152				
						I.P.= 640.88 M.O.= -0.152				ER ABOVE
										ATION REF
										IR CONTINU
	SAG AG AG AG AG AG AG AG AG AG AG AG AG A									
		R-30								
HORIZONTAL VC LENGTH	 30m VC K≢4 	~ ~		<		50m VC K=20.6				
GRADE	-3%		4.5%			><		2.1%		
Datum RL634 PROPOSED	868 577 577 588 600	263 017 263	653	761	045	729		394		940
SURFACE LEVEL	637. 637. 637. 637. 637.	34 637.98 50 638.01 86 638.26	74 638.6 54 639.1	88	33 640.0	33 640.729 83 640.780		496 641.394		909 641.9
EXISTING SURFACE LEVEL	638.494 638.771 638.771 638.818 638.818	639.034 639.034 639.186 639.186	639.47	640.26	640.4;	640.933 640.983		641	641.77	641.
CHAINAGE	-0.000 3.663 1.697 15.697 18.663 20.000	33.663 34.504 40.000	48.693 60.000	73.426	80.000	98.426		123.426	140.000	150.000
	Ē	Ē	₽ ROAD 10	LONGITUDINAL SECTIONSCALE 1:500 HORI.	<u>N</u>	· ·				

			Bar Scales						
				0	10	20	30	40	50m
					1:5	500 @ A1	1 : 1000 @	D) A3	
				0	2	4	6	8	10m
A P1	ISSUE FOR DA DRAFT ISSUE	16-10-23 09-06-23			1:1	100 @ A1	1 : 200 @	A3	
Issue	Description	Date				-	_		

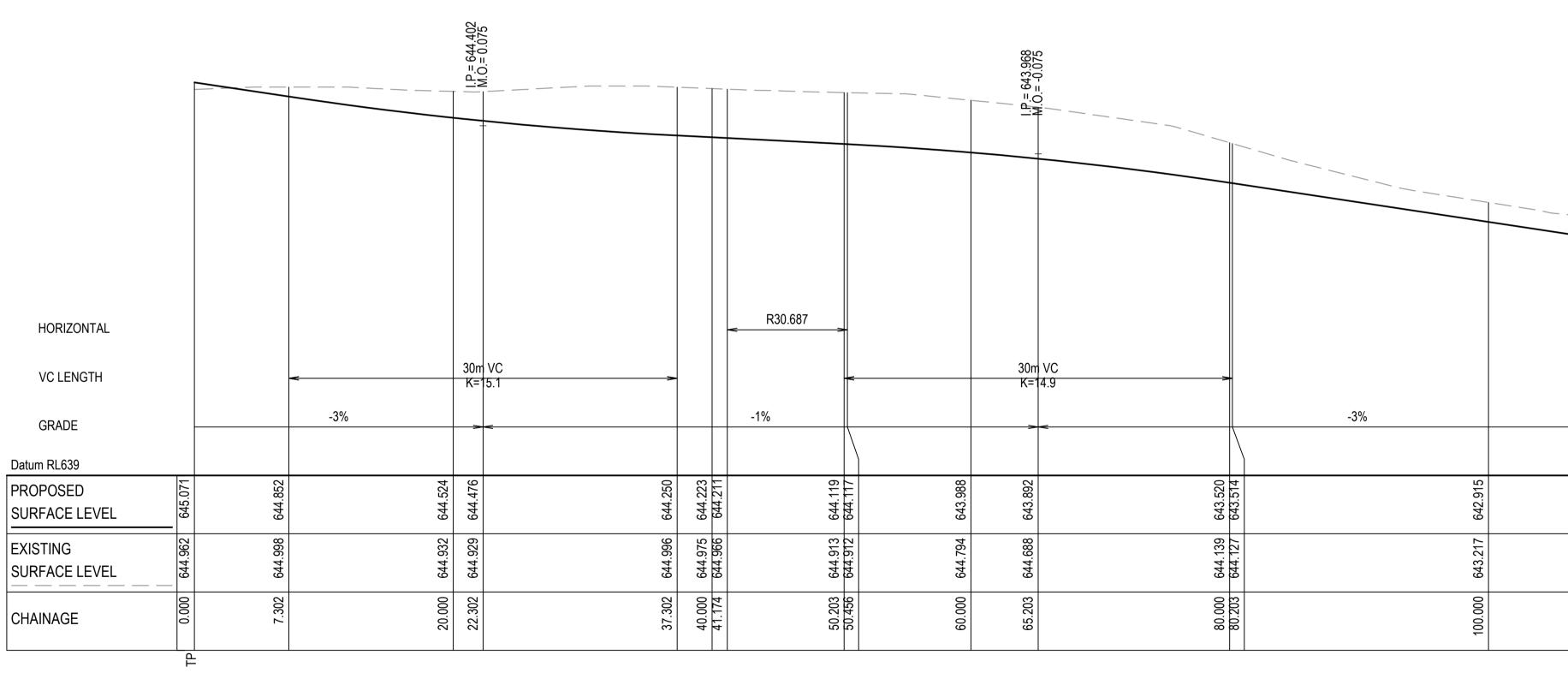
SCALE 1:500 HORI. 1:100 VERT.

	Client	Scales		Drawn	NT	Project
			AS SHOWN	Designed	ВК	1
		Grid	GDA2020	Checked	JC	1
		Height Datum	AHD	Approved		
			GD	A2020		Title
		OR USED F	VING CANNOT BE COPIE OR ANY OTHER PURPOS NDED WITHOUT THE WR	SE OTHER THAN T	HAT ORIGINALLY	

EQUINOX - STAGE 3 WILSON DRIVE, MARULAN	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	N 2060 105 777
ROADWORKS LONGITUDINAL SECTIONS	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.	A1 Issue
SHEET 8	23-1098-C1067	A

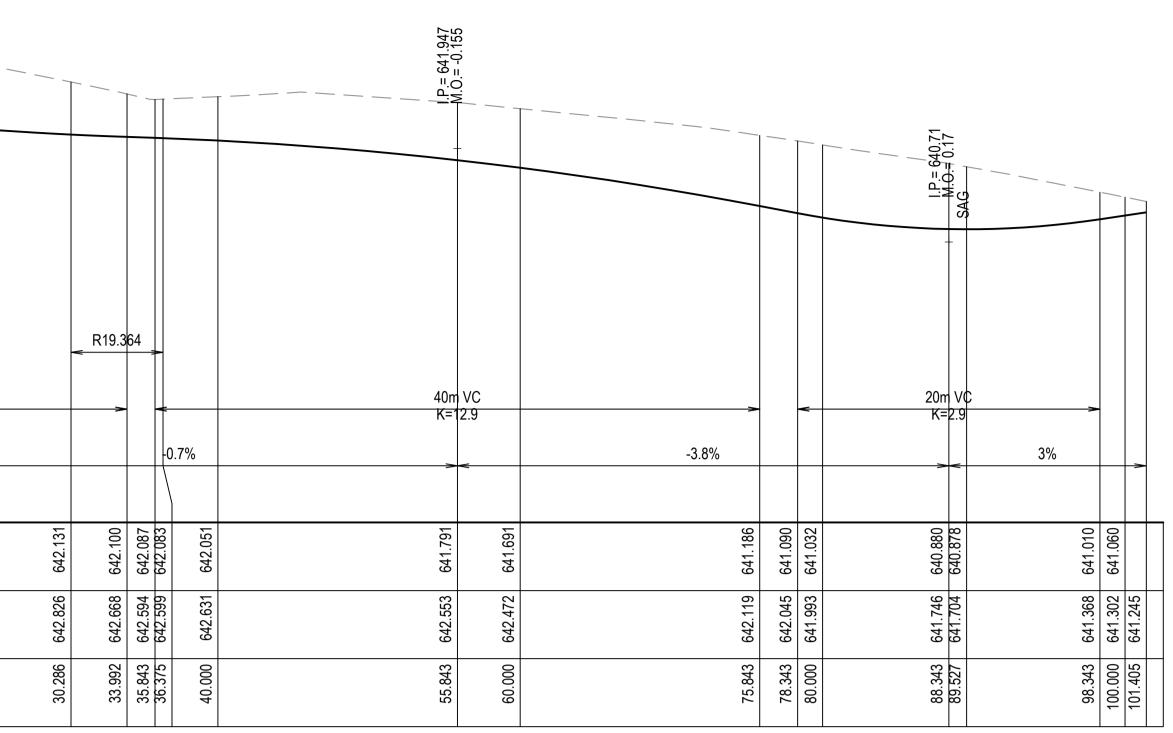
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			H.P.= 642.205 M.O.= 0.086
HORIZONTAL			
VC LENGTH			
GRADE			-3%
Datum RL637			
PROPOSED SURFACE LEVEL	642.774	642.655	642.291 642.273
EXISTING SURFACE LEVEL	642.790	642.840	642.938 642.951
CHAINAGE	0.000	3.992	18.992 20.000
L	Ē	:	1



			Bar Scales							
				0	10	20	30	40	50m	
					1 : 500 @ A1 1 : 1000 @ A3					
				0	2	4	6	8	10m	
А	ISSUE FOR DA	16-10-23								
P1	DRAFT ISSUE	09-06-23	1 : 100 @ A1 1 : 200 @ A3							
Issue	Description	Date								

100mm on Original



ROAD 12 LONGITUDINAL SECTION

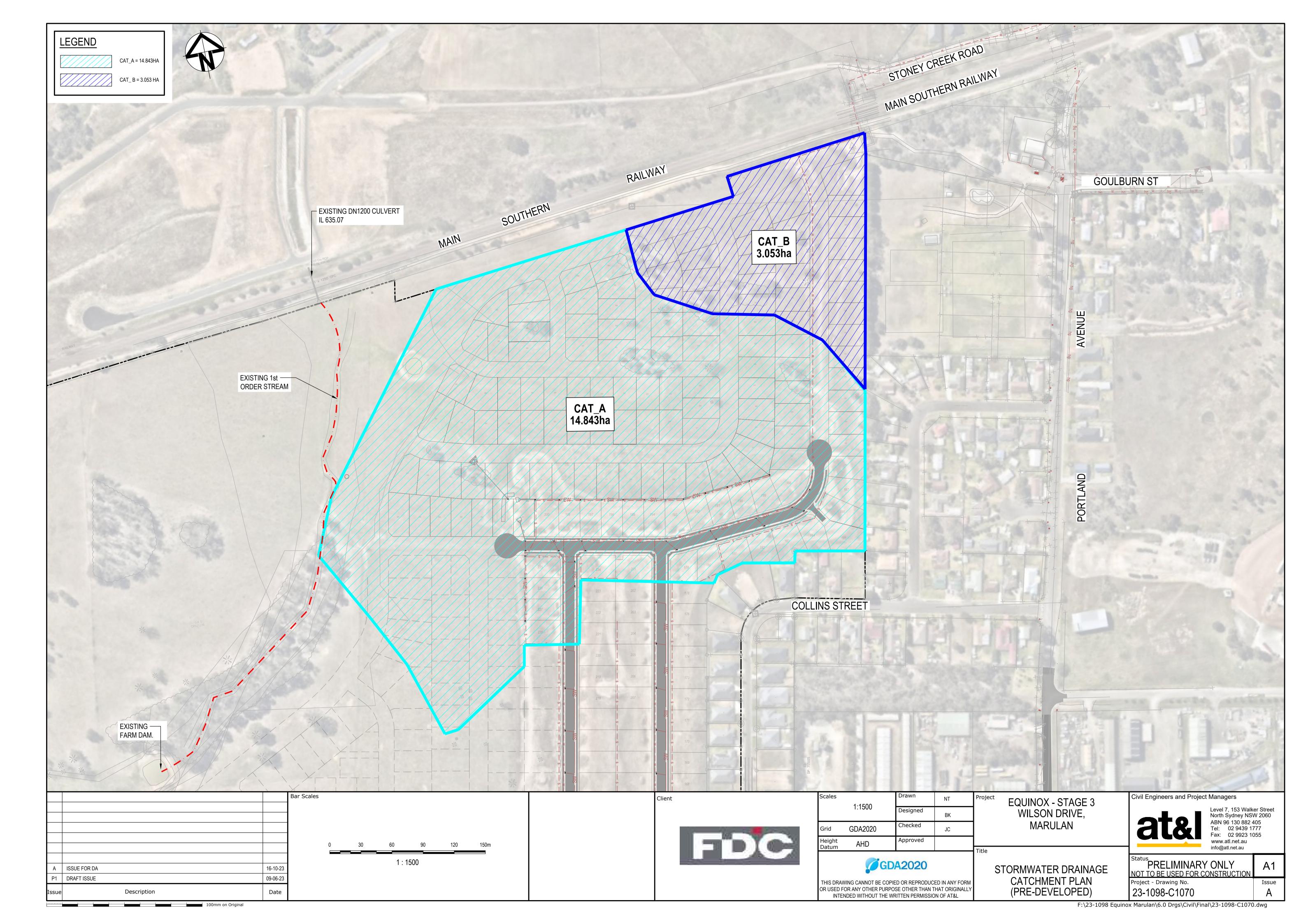
SCALE 1:500 HORI. 1:100 VERT.

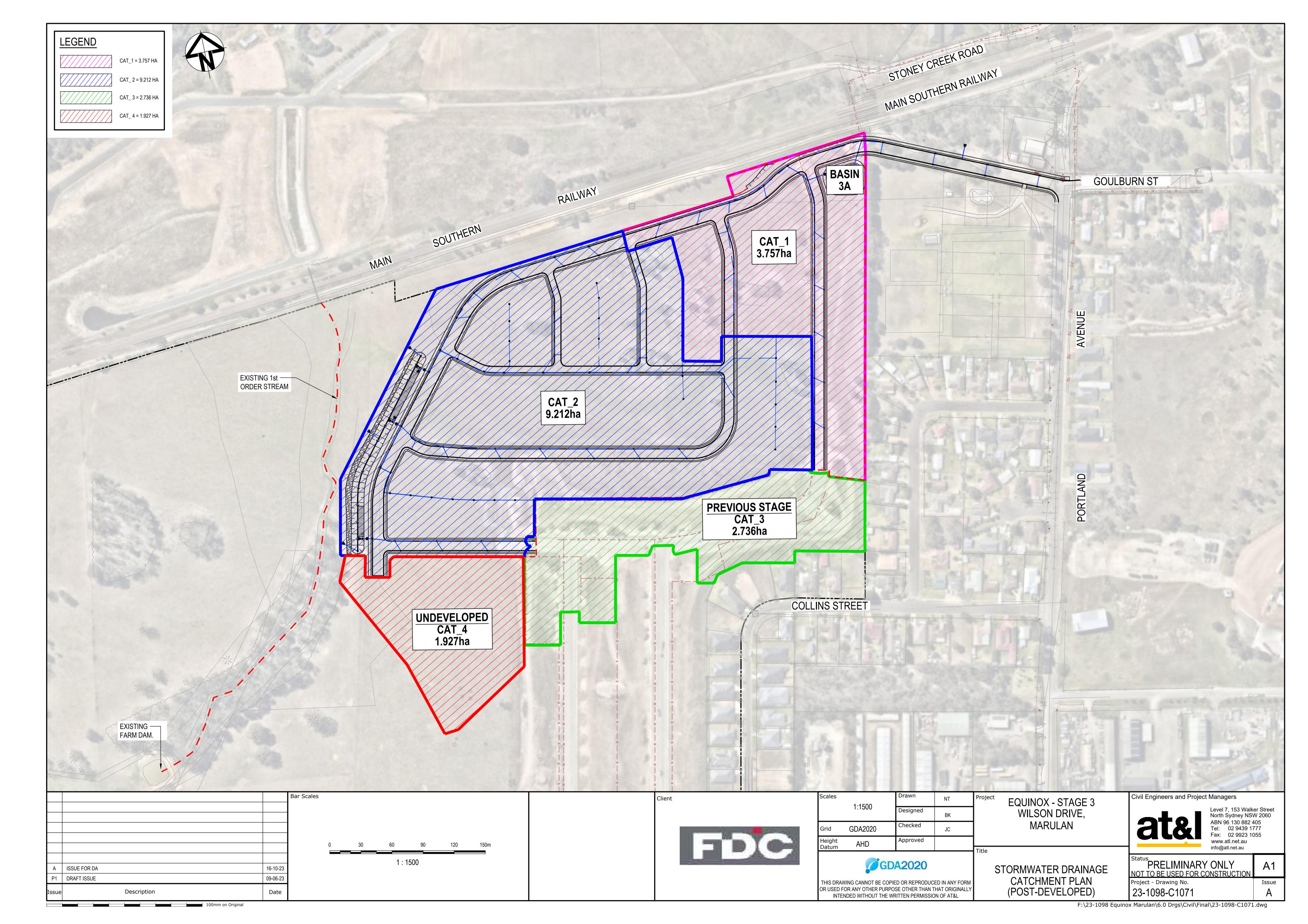
ROAD 11 LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

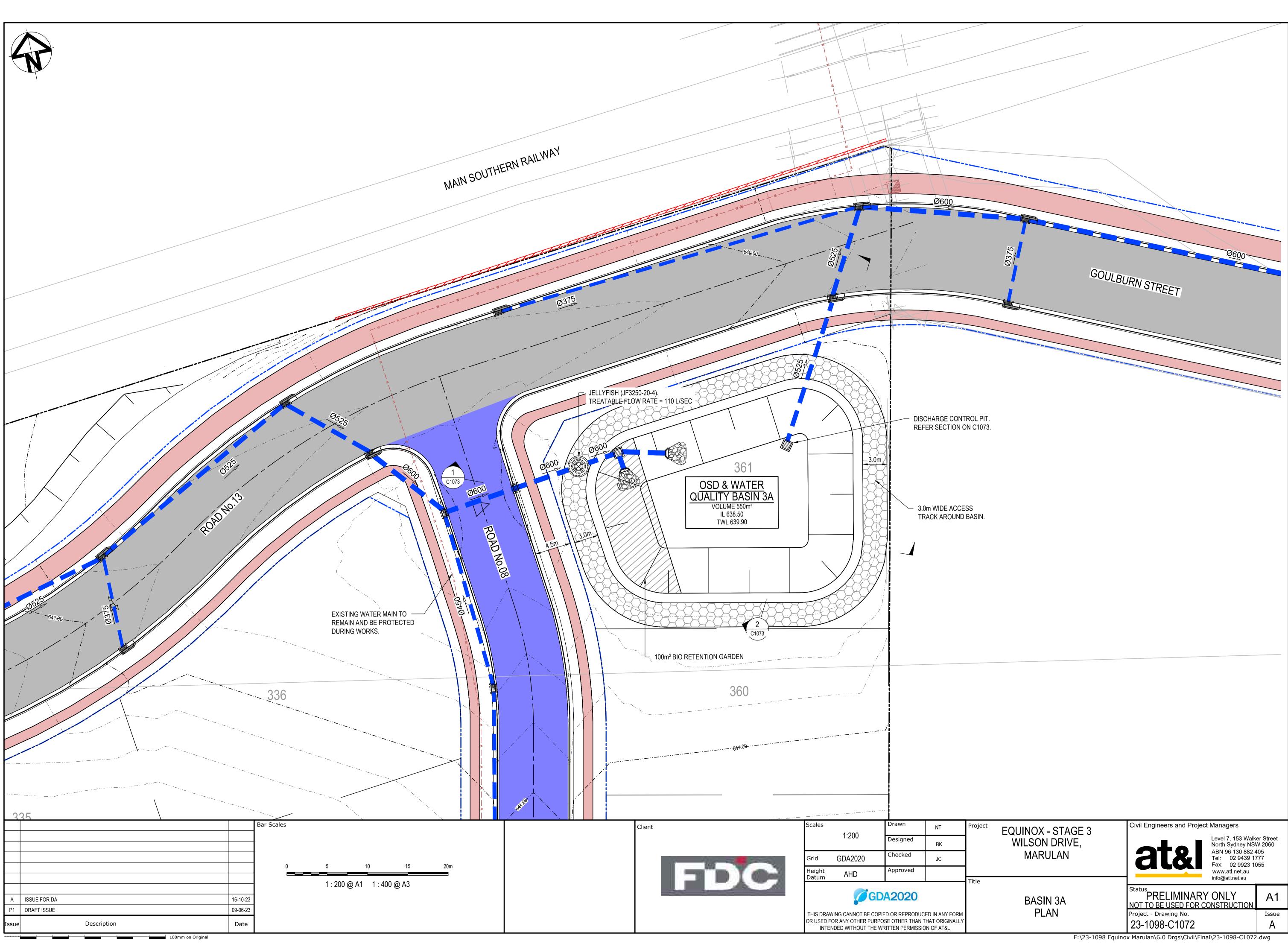
Client	Scales	Drawn	NT	Project EQUINOX - STAGE 3	Civil Engineers and Project Managers				
	AS SH	HOWN Designed	ВК	WILSON DRIVE,	Level 7, 153 Walk North Sydney NS	W 2060			
	Grid GDA2	A2020 Checked	JC	MARULAN	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10	777			
	Height AH	HD Approved		Title	www.atl.net.au info@atl.net.au	000			
		GDA2020		ROADWORKS LONGITUDINAL	Status PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1			
	OR USED FOR ANY O	NNOT BE COPIED OR REPRODUC OTHER PURPOSE OTHER THAN ITHOUT THE WRITTEN PERMISSIO	HAT ORIGINALLY		Project - Drawing No. 23-1098-C1068	Issue A			

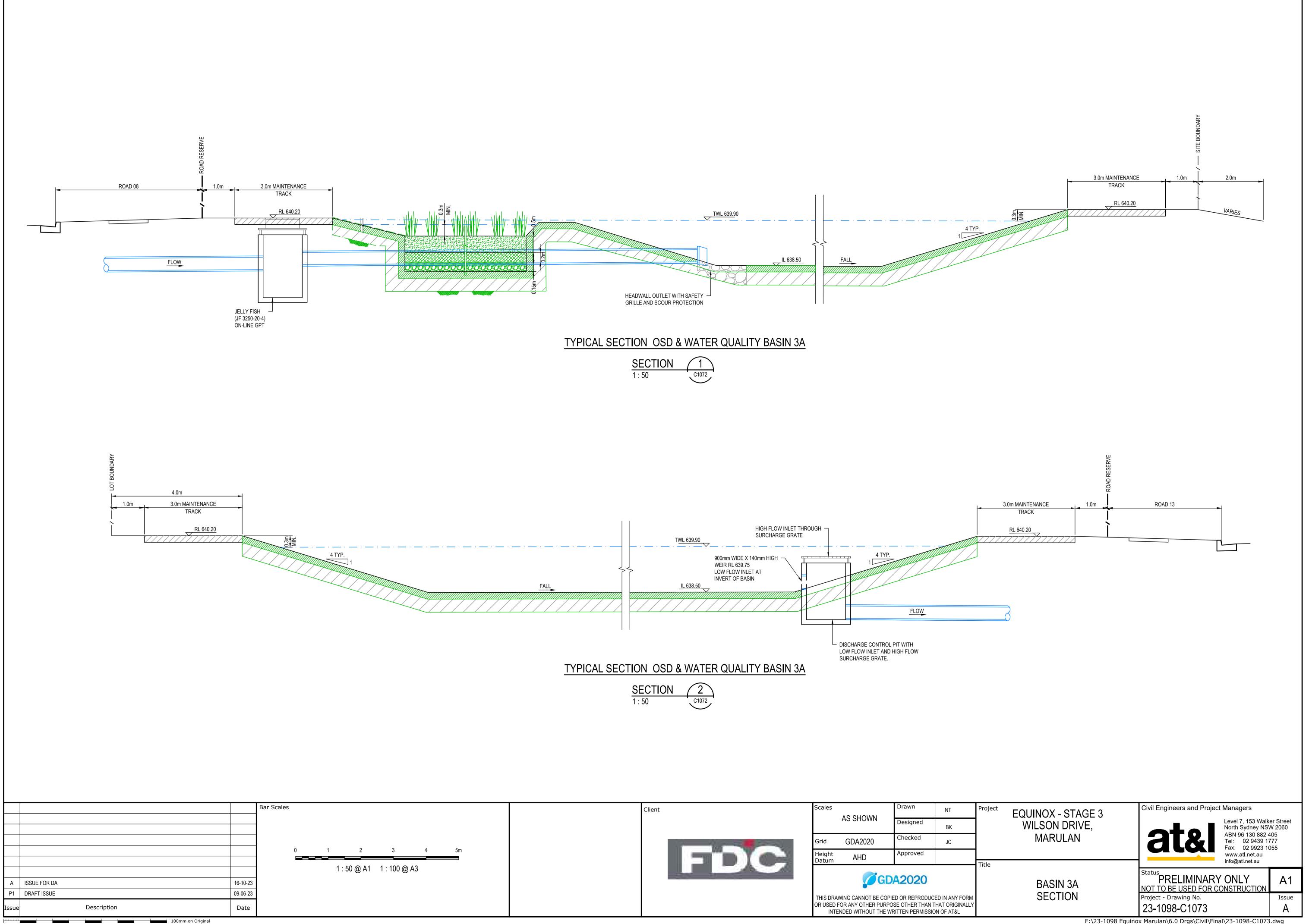
	 SAGM - 642.476					
	10m K=	VC 1.7	~	3%		
642.627	642.551	642.551	642.626	642.640	642.823	
642.965	642.870	642.870	642.731	642.716	642.522	
109.530	114.530	114.549	119.530	120.000	126.078	

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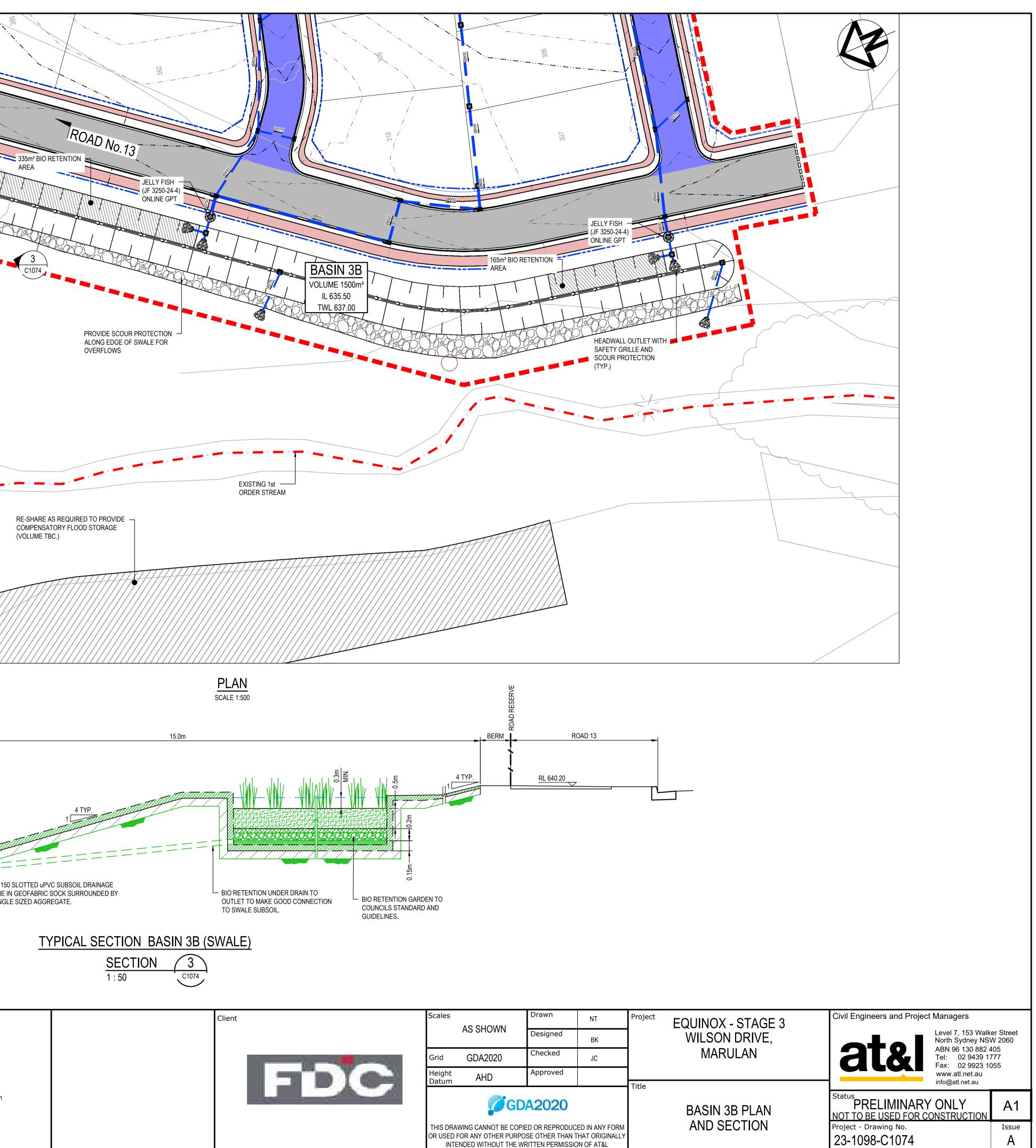


Client	Scales	Drawn	NT	Proje		
	AS SHOWN	Designed	ВК	1		
	Grid GDA2020	Checked	JC	1		
	Height AHD Datum AHD	Approved		Title		
	GDA2020					
	THIS DRAWING CANNOT BE CO OR USED FOR ANY OTHER PUP INTENDED WITHOUT THE	RPOSE OTHER THAN	THAT ORIGINALLY			

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-				
				JELLY FISH (JF 3250-24-4) ONLINE GPT
	A Dia PCP	× 1250 000	1200 Dia RCP	EXISTING DN1200 CULVERT UNDER RAILWAY IL 635.07
			S	ROVIDE 3.0m WIDE RIPRAP COUR PROTECTION ALONG OWN THE EDGE OF SWALE. D ₅₀ =200mm)
			Bar Scales	
			0	10 20 30 40 50m
				1 : 500 @ A1 1 : 1000 @ A3
A	ISSUE FOR DA	16-10-23	-	500 1000 1500 2000mm
P1 Issue	DRAFT ISSUE Description	09-06-23 Date	4	1 : 20 @ A1 1 : 40 @ A3
			1	

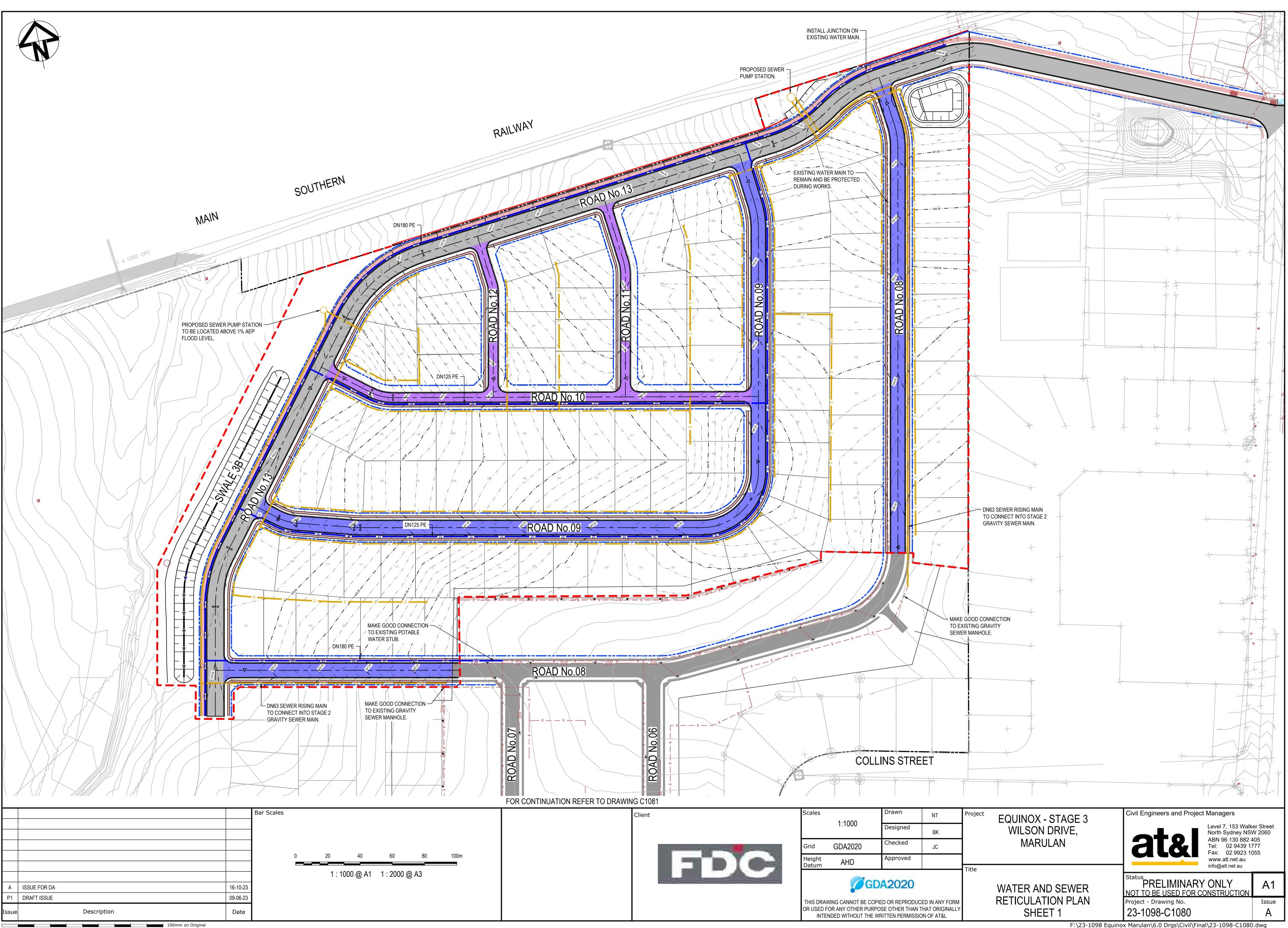
100mm on Original



GD	A2	02	0
	A Minese		

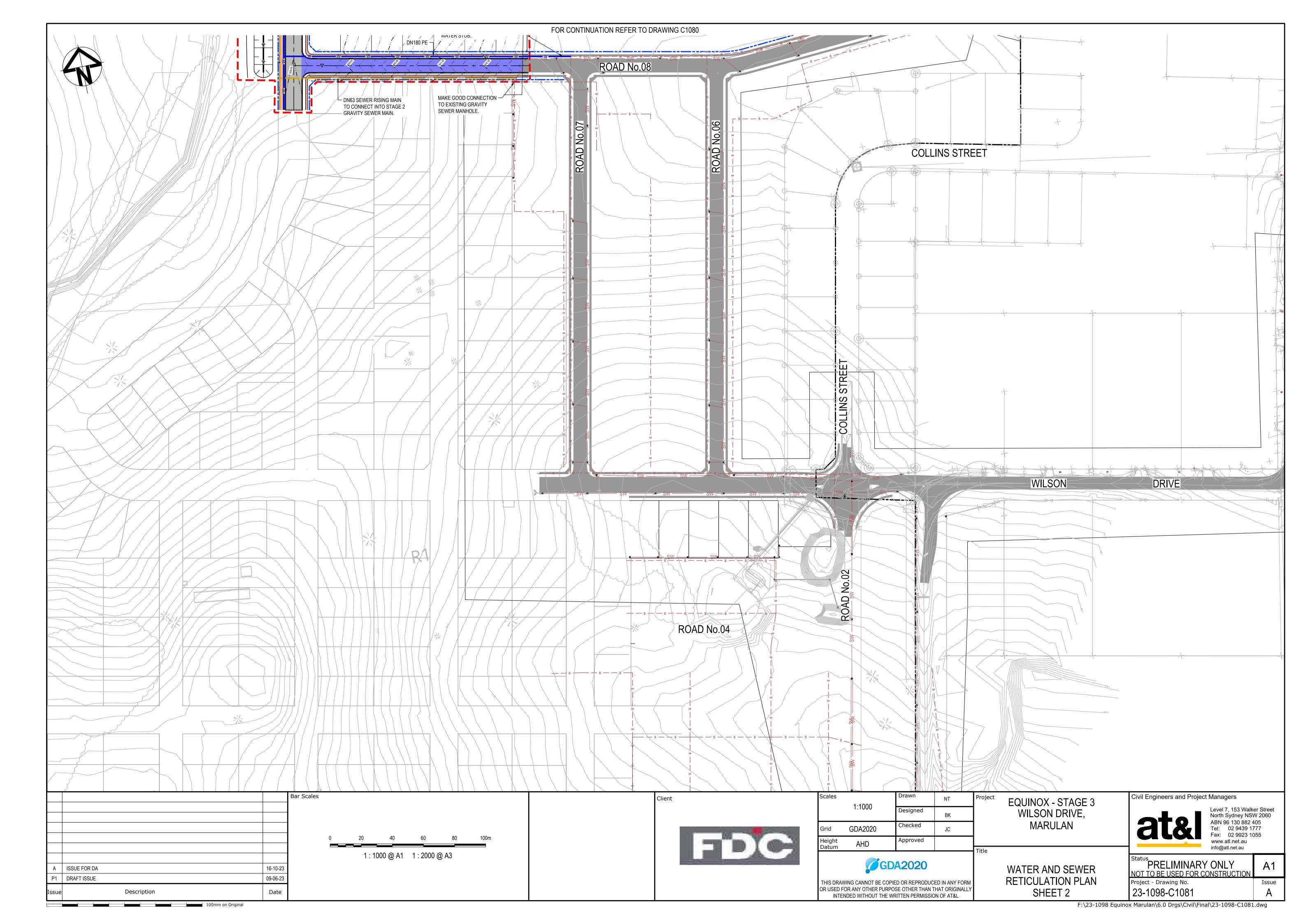
INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

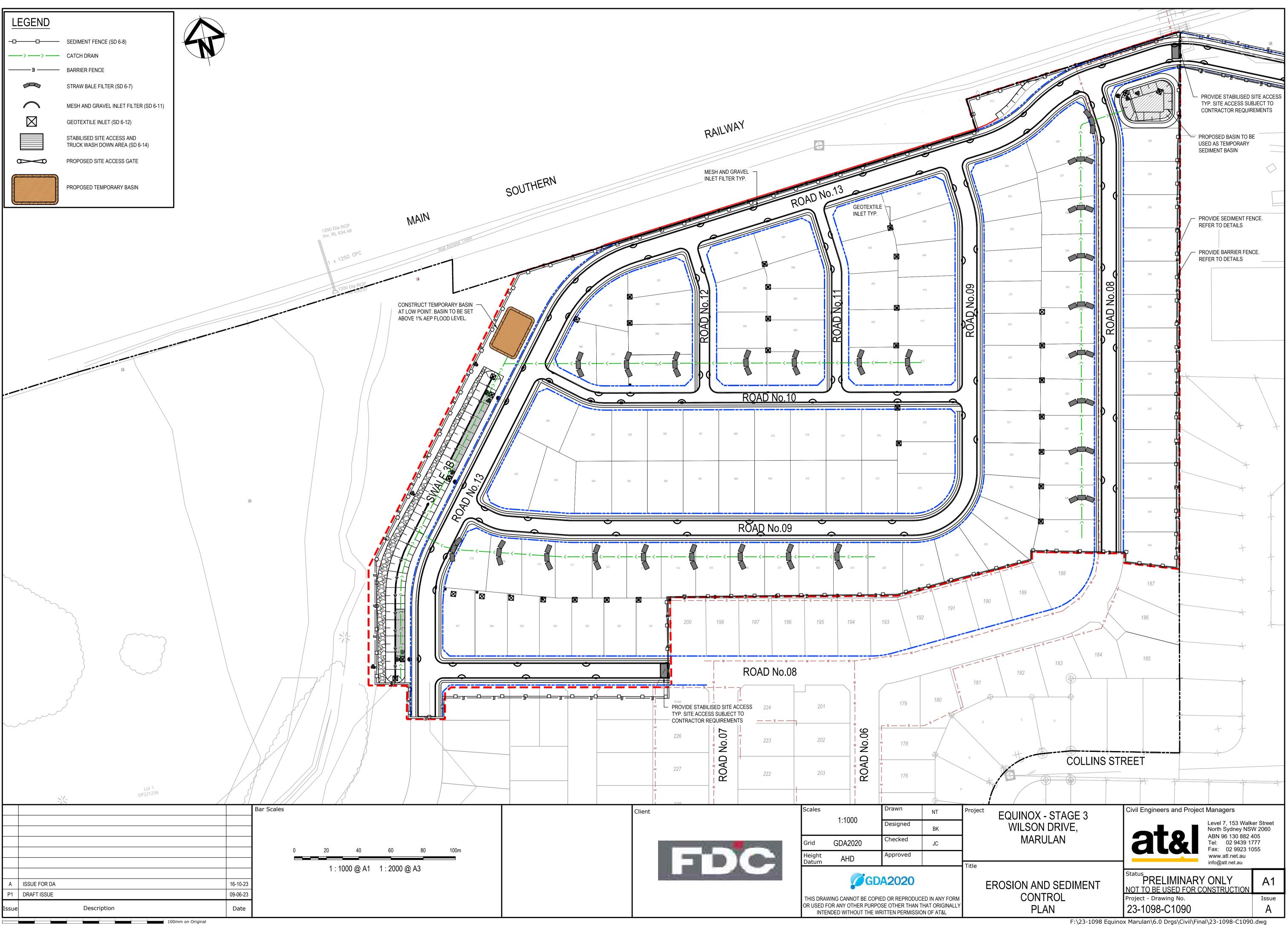
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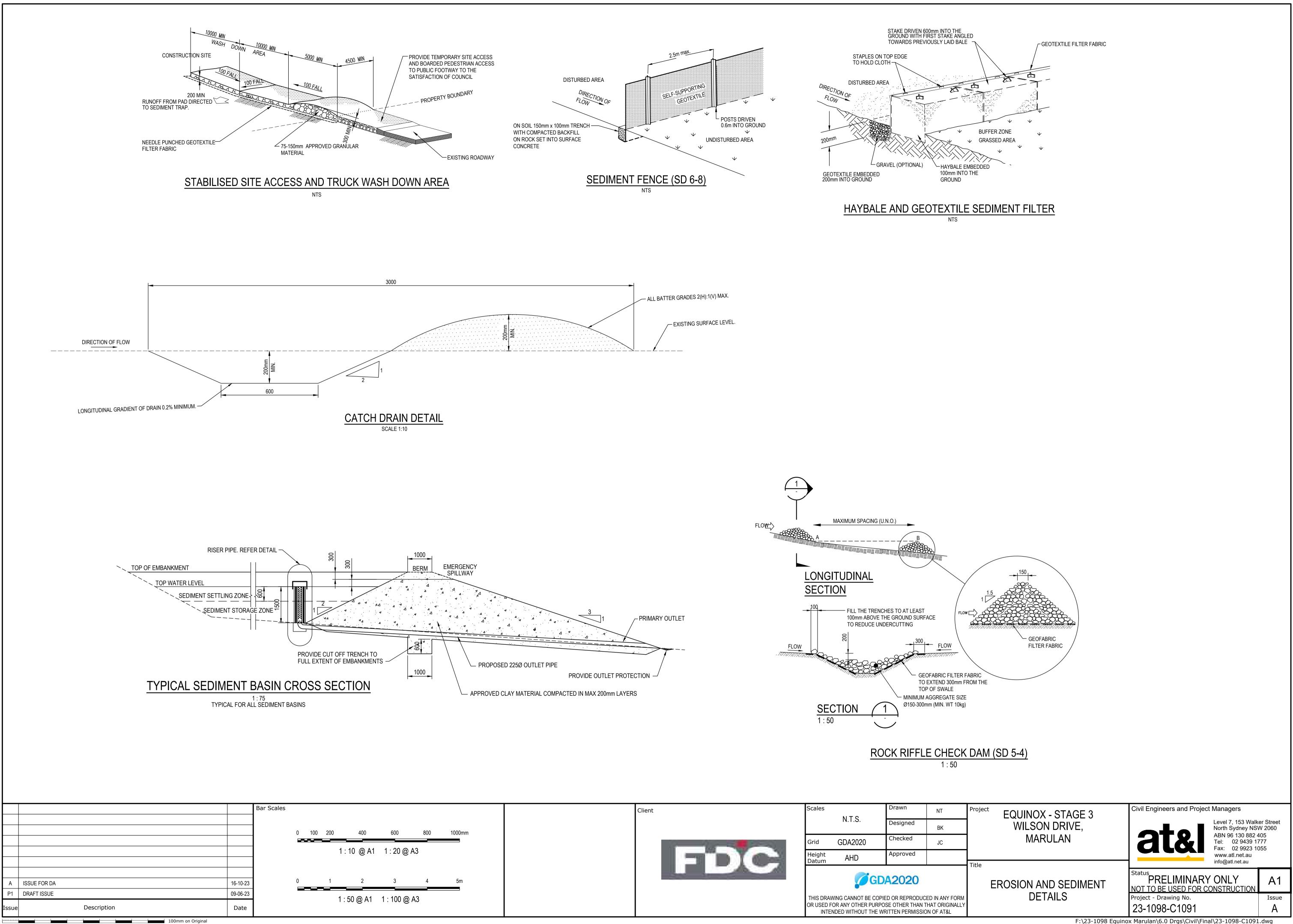


А	ISSUE FOR DA	16-10-23
P1	DRAFT ISSUE	09-06-23
Issue	Description	Date

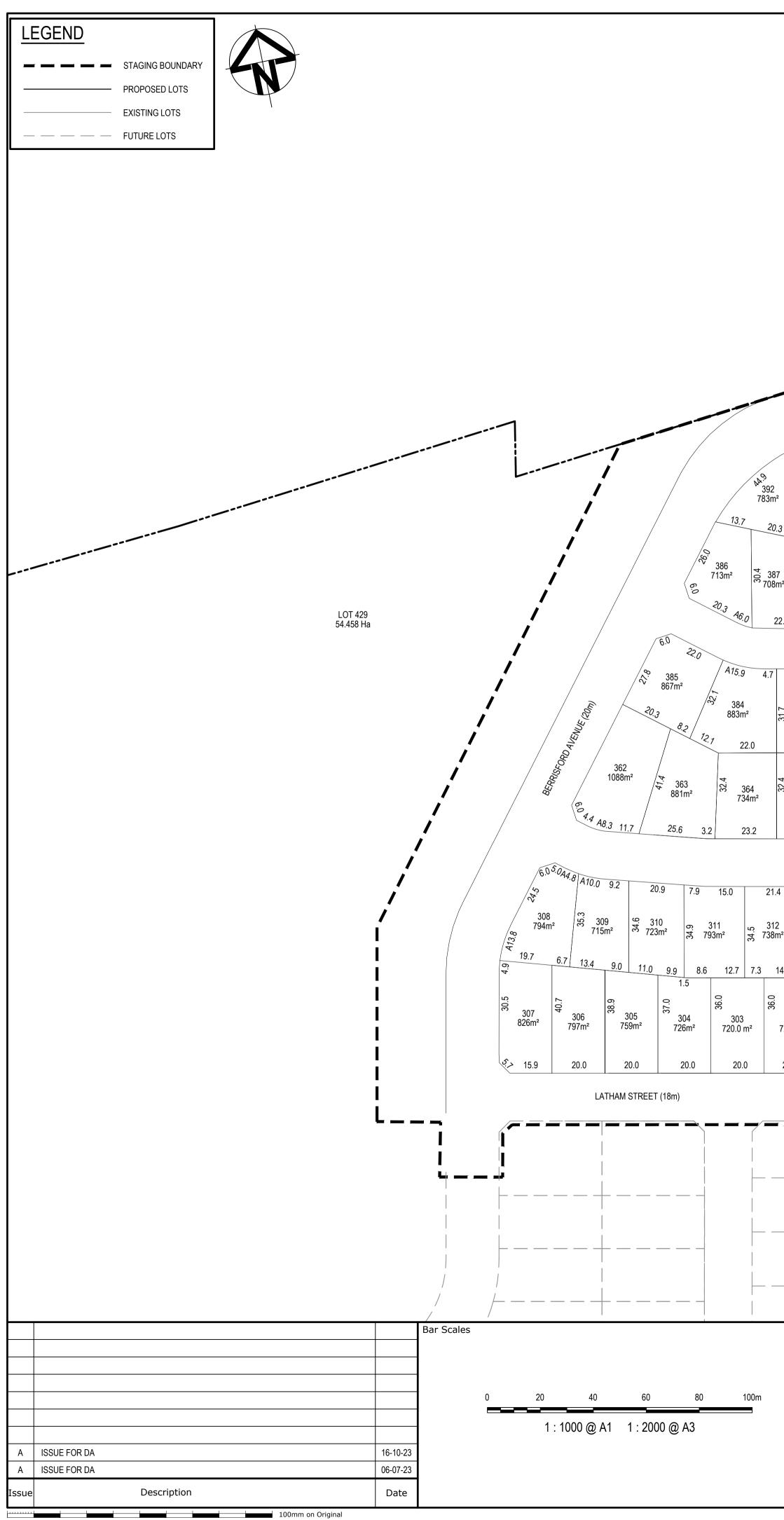
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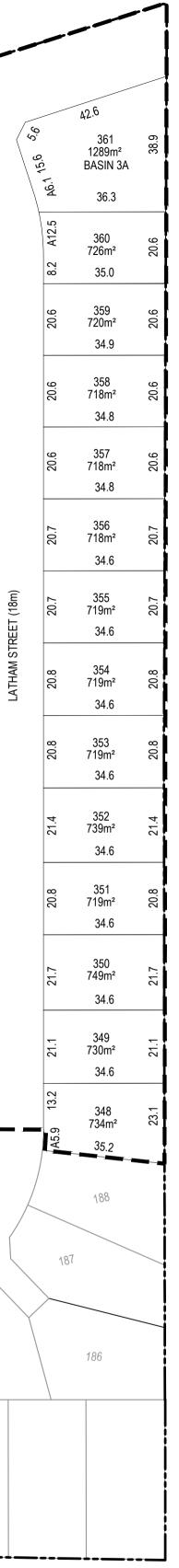


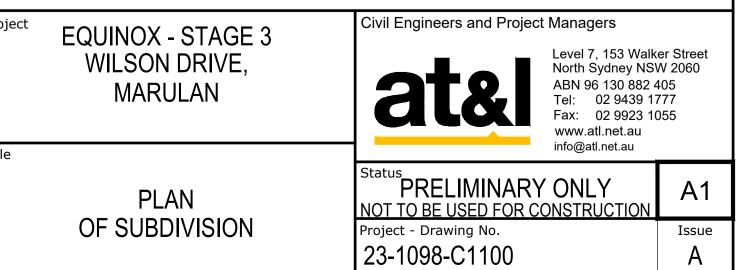


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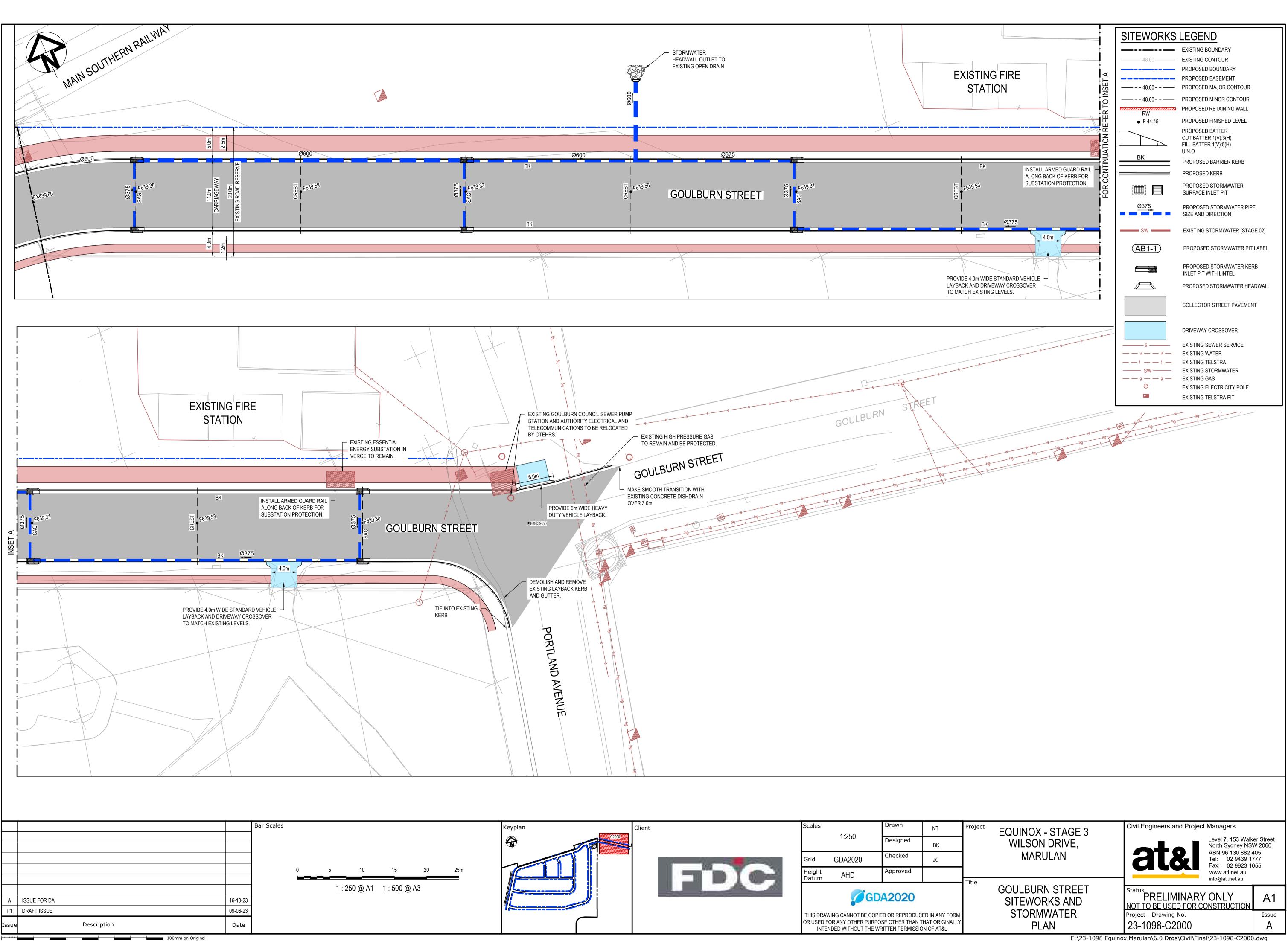


														1.02	414 628m ² A63.7	59.7 25.6	172		3.7 A12.9 15.1 %	15.6 5.6
3 392 33m ² 20.3 387 708m ² 22.5	19.3 14.2 4.5 16.2 16.2	31.3 391 702m ² 40.2 390 748m ² 39.9 389 747m ² 39.7 388 760m ² 34.8	6 14.7 18.7 19.3 A1.9 A1.8 16.3 63	ROAD NO.12 (15m)	18.7 22.5 13.0 A4.9 AV.1 302 20 202 2 202 2 20 20 202 2 20 20 20 20 20 20 20 20 20 20 20 20 20	A.7 395 12m ² 31.2 394 02m ² 31.2 393 12m ² 27.2	20.5 2.1 17.6 4.9 14.7 7.7 5.0 22.1 2.1 2.1 2.1 2.0 22.1 2.1 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	398 0.01 0.14 398 700m² 14 35.8 1 399 961 35.8 961 35.8 161 400 705m² 35.8 161 400 161 35.8 991 35.8 161 400 161 740m² 50		06 5m ² 32.6 405 743m ² 30.6 404 708m ² 30.6 403 714m ² 30.6 402 711m ²	39.2	07 1m²	$\frac{\sqrt{3}}{3}$ 21.8 20.2 19.7 21.9 5.2 A15.1 2.5 14.1 $\frac{\sqrt{3}}{3}$	HADING ROAD (18m)		335 7m² 38.2 334 702m² 36.4 333 708m² 35.7 332 702m² 35.5 331 706m² 35.4 330 702m² 35.4 330 702m² 35.2 329 722m² 35.1 328	19.9 20.7 0.7 19.3 3.4 16.7 5.6 14.8 7.9 12.4 1.4 6.7 15.0 3.1	337 766m ² 33.9 338 722m ² 32.3 339 759m ² 32.9 340 745m ² 33.1 341 742m ² 33.1 341 742m ² 33.2 342 728m ² 33.4	3 22.4 22.1 22.7 23.5 23.5 25.7	LATHAM STREET (18m)
32.4 31.7	22.2 383 702m² 22.2 365 720m² 22.2	22.2 5 5 5 5 5 5 5 5 5 5 5 5 5	32.6 31.6 31.6	22.2 381 701m² 22.2 367 724m² 22.2 NG ROAD (22.: 9: 38 9: 701 22 22 22 22 22 22 22	2 m ² 9: .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	1TER STREE 22.2 379 700m ² 22.2 369 728m ² 22.2	22.2 378 700m ² 22.2	22.2 377 700m ² 22.2 22.2 371 731m ² 22.2	22.2 376 699m ² 22.2 22.2 372 733m ² 22.2		33.3 375 716m ² 35.7 374 700m ² 35.7 373 744m ²	19.6 17.8 cs ^{co}	4115 4115	A13.7 19.6 20.0	698m ² 34.9 327 698m ² 34.9 326 719m ² 34.7 325 708m ² <i>39.9</i> 324 773m ²	20.8 21.5 4.2 17.4 4.5 17.2 2.9 19	343 755m ² 33.5 344 729m ² 33.7 345 729m ² 33.9 346 730m ² 34.0	21.5 21.6 21.7 22.3	
21.4 312 738m ² 14.2 0; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	5.9	21.4 2 $313 \\ 738m^2 \\ 15.6 \\ 4.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		21.4 ♀ 315 ♥ 738m 21.4	1 ² 4.5	21.4 316 738m ² 21.4 198	21.4 ∴ 317 738m ² <u>21.4</u> 19	ی 318 ج 738m ²	21.4 S 319 S 738m ² 2 <u>1.4</u> 195	20.5 5 320 5 736m ² 18.3 194	34 18	321 706m² 8	A17.4 322 702m .9 12.9 192	16.0	323 703m²	20.5	5.5	347 748m² 38.5 189	6.02	5
			225				224 223 222	201			180 179 178	10	31	182		183		184		
			228				Clier	8				N N	OR USE	1 GE t n RAWING 0	CANNOT NY OTHEI) GDA BE COPIEI R PURPOS	E OTHER 1	l JC	() NY FORM RIGINALL	

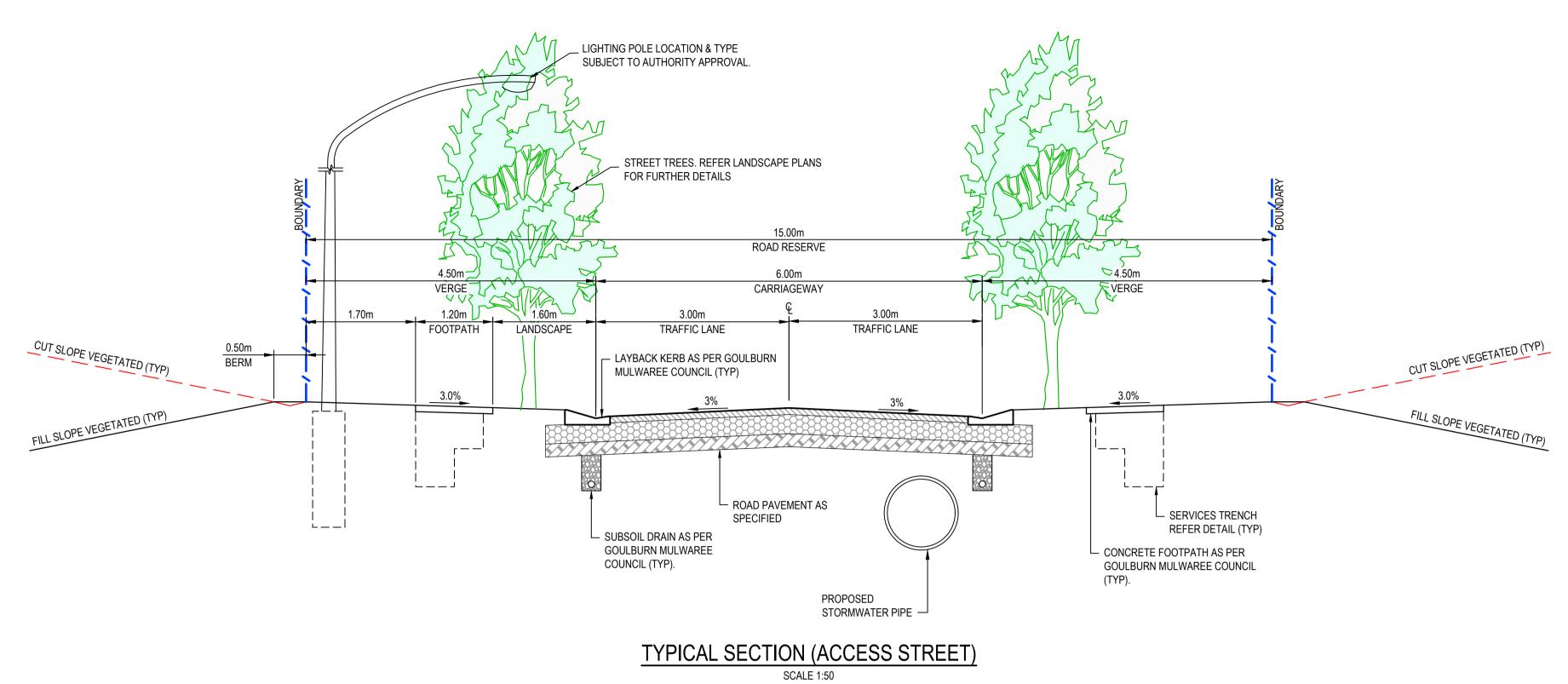




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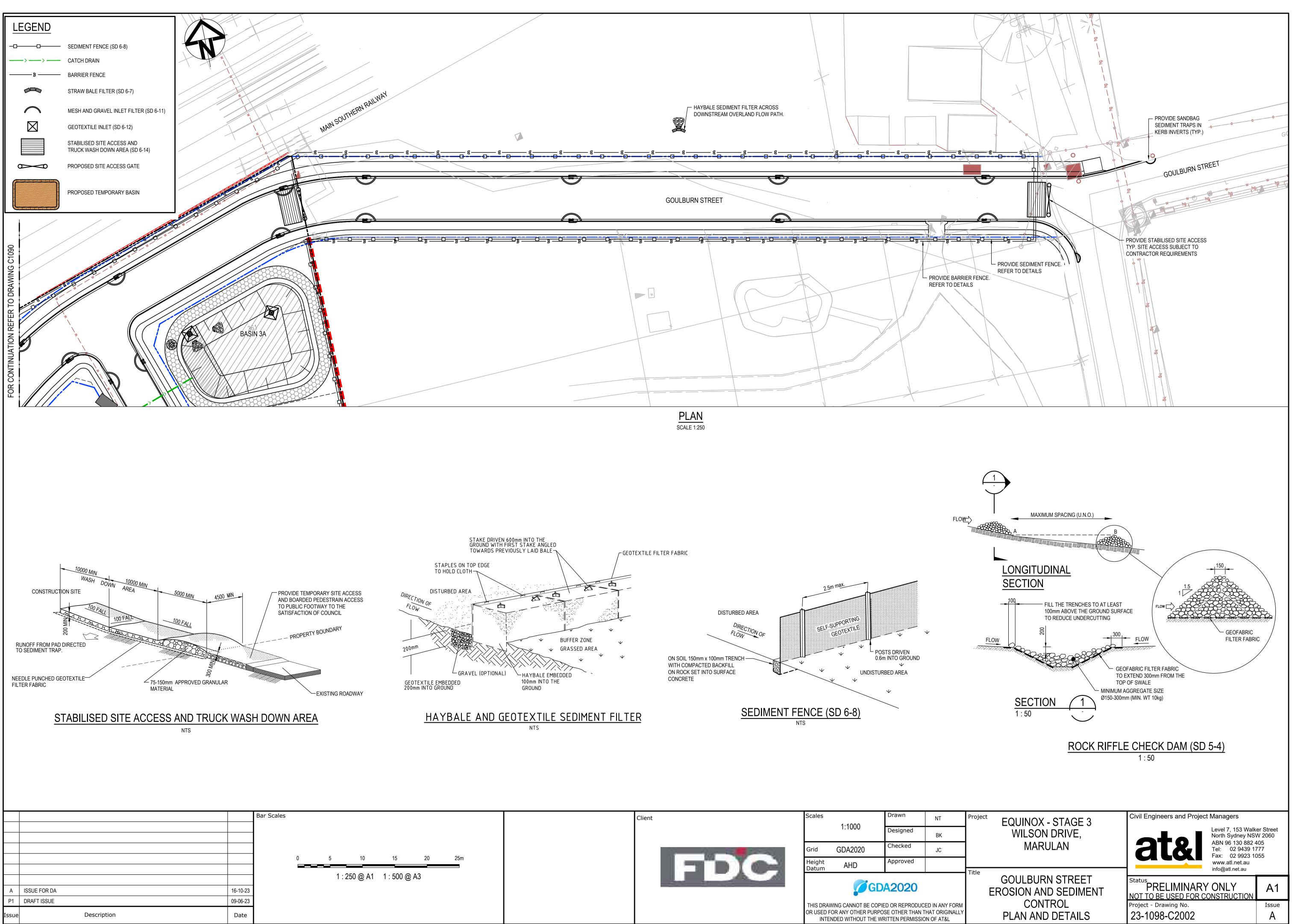


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		Bar Scales	Client	Scales		Drawn	NT	Project	EQUINOX - STAGE 3	Civil Engineers and Project Manage	rs
					AS SHOWN	Designed	BK		WILSON DRIVE,	Level 7, North Sy	153 Walker Street dney NSW 2060
				Grid	GDA2020	Checked	JC		MARULAN	ABN 96 Tel: 0	130 882 405 2 9439 1777 2 9923 1055
				Height Datum	AHD	Approved		Titlo		www.atl. info@atl.1	net.au
A ISSUE FOR DA	16-10-23			GD		DA2020			GOULBURN STREET	Status PRELIMINARY ONL NOT TO BE USED FOR CONSTRU	
P1 DRAFT ISSUE Issue Description	09-06-23 Date	1 : 50 @ A1 1 : 100 @ A3		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			HAT ORIGINALLY		TYPICAL SECTIONS	Project - Drawing No. 23-1098-C2001	Issue A
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2001.awg



	Client	Scales	1.1000	Drawn	NT	Project
			1:1000	Designed	ВК	1
		Grid	GDA2020	Checked	JC	1
		Height Datum	AHD	Approved		1
			GD	A2020		T itle
		OR USED F	VING CANNOT BE COPIE OR ANY OTHER PURPOS NDED WITHOUT THE WR	SE OTHER THAN TH	HAT ORIGINALLY	

100mm on Original

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