



# **Attachment 1 to Item 10.5.1.**

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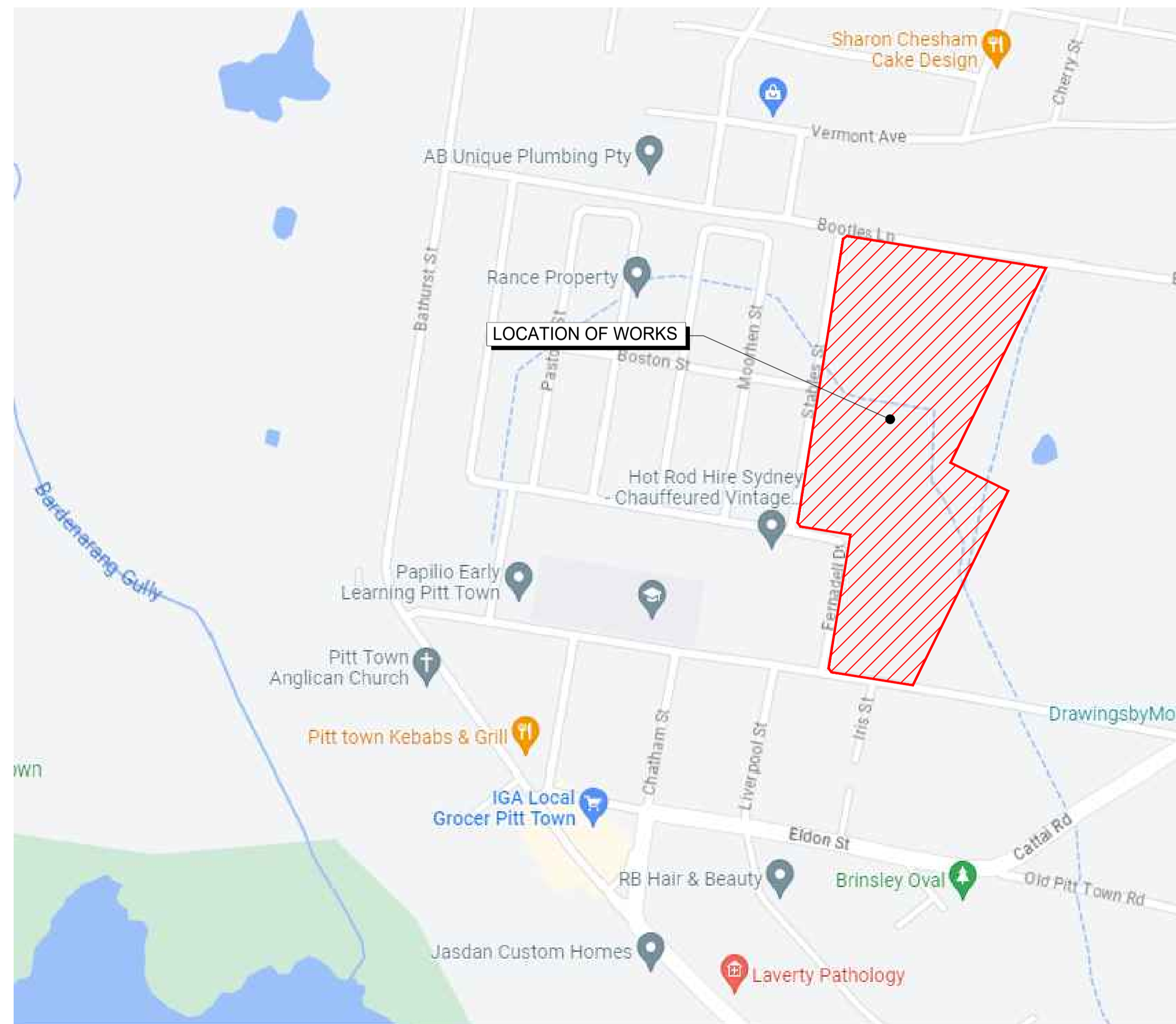
## **Fernadell Park Detailed Design**

Date of meeting: 8 April 2025  
Location: Council Chambers  
Time: 6:30pm

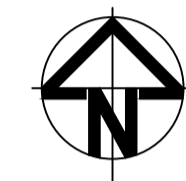


# FERNADELL RESERVE, PITT TOWN NSW 2756 CIVIL TENDER DESIGN PACKAGE

DRAWING LIST	
GENERAL	
23-1123-C0001	COVER SHEET, DRAWING LIST AND LOCALITY PLAN
23-1123-C0002	GENERAL NOTES SHEET 1
23-1123-C0002A	GENERAL NOTES SHEET 2
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BULK EARTHWORKS	
23-1123-C0010	BULK EARTHWORKS PLAN
TYPICAL SECTIONS	
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23-1123-C0020	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
23-1123-C0021	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
23-1123-C0022	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
23-1123-C0023	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
23-1123-C0024	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
23-1123-C0025	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6
23-1123-C0026	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 7
23-1123-C0027	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 8
23-1123-C0028	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 9
23-1123-C0029	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 10
23-1123-C0030	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 11
23-1123-C0031	STORMWATER DRAINAGE LONGSECTIONS SHEET 1
23-1123-C0032	STORMWATER DRAINAGE LONGSECTIONS SHEET 2
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23-1123-C0046	PIT DETAILS SHEET 1
23-1123-C0050	HEADWALL A/06 DETAIL
23-1123-C0051	HEADWALL B/05 DETAIL
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23-1123-C0064	EROSION AND SEDIMENT CONTROL PLAN SHEET 5
23-1123-C0065	EROSION AND SEDIMENT CONTROL PLAN SHEET 6
23-1123-C0066	EROSION AND SEDIMENT CONTROL PLAN SHEET 7
23-1123-C0067	EROSION AND SEDIMENT CONTROL PLAN SHEET 8
23-1123-C0068	EROSION AND SEDIMENT CONTROL PLAN SHEET 9
23-1123-C0069	EROSION AND SEDIMENT CONTROL PLAN SHEET 10
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23-1123-C0071	EROSION AND SEDIMENT CONTROL DETAILS



LOCALITY PLAN  
NTS



Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23

Bar Scales

Client

Scales	Drawn	NT
N.T.S.	Designed	SM
Grid MGA2020	Checked	SM
Height Datum AHD	Approved	AT

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Project
FERNADELL RESERVE PITT TOWN NSW 2756
Title
COVER SHEET, DRAWING LIST AND LOCALITY PLAN

Civil Engineers and Project Managers

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Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0001	Issue
		D



### SITeworks 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.(2017). (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 RMS. SPECIFICATION R116.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. FORM ACCORDANCE WITH AS 1289 5.2.1.(2017) 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 RMS. FORM 3051.1 AND COMPACTED 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 RMS. 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 THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND 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. ALL BASECOURSE AND SUB-BASE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH THE CURRENT TNSW SPECIFICATION 3051 COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH THE CURRENT AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 25m<sup>2</sup> OF BASECOURSE MATERIAL PLACED 1 TEST PER 50m<sup>2</sup> OF SUB-BASE COURSE MATERIAL UNLESS OTHERWISE APPROVED BY AT&L.

### CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600( 2018) 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 Fc MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE KERBS, PATHS, AND PITS	32	60	20
	32	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/NZS 4671 GRADE N  
 R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS/NZS 4671  
 SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS 4671
- NUMBER OF BARS IN GROUP BAR GRADE AND TYPE  
 17 N 20 250  
 NOMINAL BAR SIZE IN mm SPACING IN mm
- THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS/NZS 4671.
- FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

### STORMWATER DRAINAGE NOTES

#### GENERAL NOTES

- STORMWATER DESIGN CRITERIA:  
 ANNUAL EXCEEDANCE PROBABILITY:  
 MINOR STORM: 20% AEP  
 MAJOR STORM: 1% AEP
- PIPES LESS THAN 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN DN300.
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT AS 3500 3.1 AND AS/NZS 3500 3.2.
- ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- ALL DRAINAGE LINES TO PROVIDE A 3.0M LENGTH OF DN100 SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, ON THE UPSTREAM SIDE OF EACH PIT. ALLOW FOR SECONDARY SUBSOIL FOR PIPES FOR PIPE GREATER THAN DN825.
- SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK SHALL BE PROVIDED BENEATH ALL KERBLINES WHERE NO DRAINAGE LINES ARE SHOWN ON THE DRAWINGS AND SHALL DISCHARGE INTO DOWNSTREAM PITS.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPES ARE TO BE USED. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL FROM AT&L.
- GRATES AND COVERS SHALL CONFORM TO THE CURRENT AS 3996. CLASS D COVER (MINIMUM) SHALL BE PROVIDED IN TRAFFICKED PAVEMENTS WITH CLASS B (MINIMUM) BEING PROVIDED IN NON-TRAFFICKED AREAS.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY PROCEDURES TO PREVENT 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.
- ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS AND SPECIFICATIONS.
- ALL PITS MUST BE BENCHED AND STREAMLINED TO DIRECT WATER FROM THE INLET PIPE TO THE OUTLET PIPE.
- RIGID & SEMI-RIGID PIPE NOTES
- PIPES 300 DIA. AND LARGER TO BE STEEL 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.
- EQUIVALENT STRENGTH FIBRE REINFORCED CONCRETE PIPES MAY BE USED SUBJECT TO APPROVAL BY AT&L OR THE LOCAL GOVERNMENT AUTHORITY.
- REINFORCED CONCRETE PIPES TO COMPLY WITH THE CURRENT AS/NZS 4058.
- FIBRE REINFORCED CONCRETE PIPESTO COMPLY WITH THE CURRENT AS 4139.
- PIPES TO BE INSTALLED WITH TYPE H53 (ROAD) AND H52 (LOTS) SUPPORT IN ACCORDANCE WITH THE CURRENT AS/NZS 3725. IN ALL CASES BACKFILL TRENCH WITH SELECT FILL (MINIMUM CBR 15%) 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 THE CURRENT AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- PRECAST CONCRETE PIT NOTES
- PRECAST PIT MAY BE USED WITH THE APPROVAL OF AT&L THE SUPERINTENDENT AND THE LOCAL GOVERNMENT AUTHORITY AND SHALL BE INSTALLED TO THE MANUFACTURERS RECOMMENDATIONS.
- ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT REQUIREMENTS OF THE CURRENT AS3600 AND AS3996 (2019).
- PRE CAST STORMWATER PITS ARE TO BE APPROVED FOR TFSW CONSTRUCTION (R11) AND ARE TO ARE TO BE DESIGNED AND CUSTOM MADE WITH OPENINGS UP TO A MAXIMUM +50mm OD OF THE STORMWATER PIPES. PITS ARE ALSO TO INCLUDE PENETRATIONS FOR SUBSOIL CONNECTIONS AND DOUBLE STEP IRONS INSTALLED FOR PITS >0.6m DEEP. DEMOLITION SAWS MAY BE USED PROVIDING A NEAT FULL DEPTH CUT IS APPLIED AND ANY ADDITIONAL PENETRATIONS REQUIRED ARE TO BE CORE DRILLED.
- SHOP DRAWINGS ARE TO BE PROVIDED FOR REVIEW AND ACCEPTANCE. IT SHOULD BE NOTED THAT THE CONTRACTOR IS TO ENSURE THAT THE STRUCTURAL COMPONENTS OF THE PITS ARE NOT COMPROMISED AND ONLY THE PIPE KNOCKOUTS ARE TO BE REMOVED FOR THE PIPE PENETRATIONS.
- ALL PRECAST PITS TO BE FOUNDED ON CONCRETE BLINDING LAYER (100MM ON AN EARTH FOUNDATION OR 150mm ON A ROCK FORMATION) WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100kPa UP TO 3.0m DEPTH TO INVERT AND 150kPa FROM 3.0m TO 6.0m DEPTH TO INVERT (MINIMUM 100mm THICK 25MPa OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED). CONTRACTOR TO ENGAGE GEOTECHNICAL ENGINEER TO PROVIDE WRITTEN CONFIRMATION.
- ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.
- ALL PIPE JOINTING, SPARGING, RENDERING, FILLING OF GAPS TO BE FILLED WITH A HIGH STRENGTH NON SHRINK GROUT WITH A MINIMUM 40MPa COMPRESSIVE STRENGTH AT 28 DAYS. (LANKO DURABED 702 OR SIMILAR).
- SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH 600mm PIT INSTALLATION AND JOINTING BETWEEN UNITS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED AT THE CONTRACTORS EXPENCE TO THE SATISFACTION OF THE AT&L, SUPERINTENDENT / LOCAL GOVERNMENT AUTHORITY.

### 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 CONTINUED

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

### BULK EARTHWORKS NOTES

- ORIGIN OF LEVELS- REFER SURVEY NOTES
- STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
- EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
- COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:  

LOCATION	STANDARD DRY DENSITY (AS 1289 5.1.1.)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
- FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
- BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
- FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN -  
 (A) 1 TEST PER 200m<sup>2</sup> OF FILL PLACED PER 300 LAYER OF FILL.  
 (B) 3 TESTS PER VISIT  
 (C) 1 TEST PER 1000m<sup>2</sup> OF EXPOSED SUBGRADE  
 TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (2007).
- FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
- NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

### EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

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



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

### DETAILS AND SPECIFICATIONS

- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH HAWKESBURY CITY COUNCIL TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS
- ANY INCONSISTENCY BETWEEN AT&L AND HAWKESBURY CITY COUNCIL SPECIFICATIONS SHOULD BE REFERRED TO SUPERINTENDENT FOR DIRECTIONS

### SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN PROVIDED BY MCKINLAY MORGAN & ASSOCIATES PTY LTD, DATED 1-2/02/2023. 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.

ANY EXISTING BENCHMARKS ARE TO BE PROTECTED.

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.

#### TYPICAL NOTES:

- THESE NOTES MUST BE INCLUDED WITH ANY COPYING OR REPRODUCTION IN PART OR FULL TOGETHER WITH THE PLAN NUMBER & ANY AMENDMENT. THE INFORMATION SHOWN ON THIS PLAN MUST NOT BE AMENDED OR ALTERED.
- THE POSITION OF FEATURES SHOWN HAVE BEEN LOCATED FOR TOPOGRAPHICAL PURPOSES ONLY AT THE REDUCTION RATIO SHOWN. BOUNDARY DIMENSIONS HAVE BEEN TAKEN FROM THE TITLE DIAGRAM. THE SURVEY HAS BEEN UNDERTAKEN IN ACCORDANCE WITH CLAUSE 9(1) OF THE SURVEYING & SPATIAL INFORMATION REGULATION 2017.
- THIS SURVEY PLAN IS FOR PLANNING & DESIGN PURPOSES ONLY & IS NOT TO BE USED FOR CONSTRUCTION. IF ANY CONSTRUCTION IS TO BE UNDERTAKEN CLOSE TO OR RELATIVE TO ANY BOUNDARY, OR ACCURATE POSITION OF FEATURES IS NEEDED A SPECIFIC SETOUT OR BOUNDARY SURVEY IS REQUIRED.
- CONTOURS SHOWN ARE INDICATIVE OF THE SURFACE & SHOULD NOT BE INTERPOLATED TO DETERMINE ACCURATE LEVELS.
- TREES SHOWN ARE INDICATIVE OF THEIR SIZE, THE TREE SPREADS ARE SHOWN CENTRAL ABOUT THE TRUNK & MAY NOT BE A TRUE INDICATION OF THEIR DRIP LINE.
- THE TERMS AND CONDITIONS OF RESTRICTIONS APPEARING ON THE CERTIFICATE OF TITLE HAVE NOT BEEN INVESTIGATED.

#### USERS SERVICES

- THE POSITION OF UNDERGROUND SERVICES SHOWN HEREON HAS BEEN TAKEN FROM BYDA SERVICE AUTHORITY DIAGRAMS. SERVICE AUTHORITY DIAGRAMS PROVIDE AN INDICATION THAT AN UNDERGROUND SERVICE EXISTS AND THERE IS NO GUARANTEE/WARRANTY THAT ALL UNDERGROUND SERVICES ARE SHOWN ON THE BYDA NOR ON THIS PLAN NOR THAT THE LOCATION SHOWN ON EITHER IS ACCURATE. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION, BYDA MUST BE UPDATED.
- ONLY VISIBLE SERVICES OF ELECTRICITY, COMMUNICATIONS, SEWER, WATER & DRAINAGE HAVE BEEN LOCATED. THE PLOTTING OF ANY SERVICE FROM OR BETWEEN VISIBLE STRUCTURES SHOWN HEREON (PIT, HYDRANT ETC) DOES NOT GUARANTEE THE SERVICE IS A STRAIGHT LINE NOR THAT THE SERVICE IS DIRECTLY UNDER THE STRUCTURE.
- ANY UNDERGROUND SERVICES SHOWN HEREON OR ON ANY SERVICES PLAN NEAR TO OR CRITICAL TO ANY DESIGN OR CONSTRUCTION MUST BE CONFIRMED FOR LOCATION & LEVEL BY POTHOLING &/OR DIRECTLY WITH THE RELEVANT SERVICE PROVIDER.

#### COORDINATES

- THE COORDINATE SYSTEM FOR THE DIGITAL FILE FOR THIS PLAN & COORDINATES (WHERE SHOWN ON THIS PLAN) ARE GROUND COORDINATES & GROUND DISTANCES BASED ON MGA2020 COORDINATES FROM SSM 191093
- TO GET TRUE AND SURVEY ACCURATE MGA2020 COORDINATES THE PLAN OR DISTANCES INTERPOLATED FROM THE PLAN MUST BE SCALED ABOUT SSM 191093 USING THE RELEVANT SCALE FACTOR.

### CONSTRUCTION TOLERANCES

BULK EARTHWORKS	-10mm / +20mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)
<b>STORMWATER</b>		
PIPES	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT
PIPES	WITHIN 100mm	OF THE PLAN POSITION SHOWN ON THE DRAWINGS OR SPECIFIED AT ANY POINT
HEADWALLS	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT
HEADWALLS	WITHIN 100mm	OF THE PLAN POSITION SHOWN ON THE DRAWINGS OR SPECIFIED AT ANY POINT
CHAMBERS	WITHIN 20mm	OF THE INVERT LEVEL SHOWN ON THE DRAWINGS
CHAMBERS	WITHIN 200mm	LONGITUDINALLY OF THE PLAN POSITION, WITH REFERENCE TO THE CONTROL LINE FOR THE ROAD SHOWN ON THE DRAWINGS
LINTELS	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL	
COVERS	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL	
GRATES	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL	
OPEN DRAINS	WITHIN 50mm	OF THE DESIGN LEVEL AT ANY POINT PROVIDED THAT THERE IS A CONTINUOUS DOWNGRADE (WITHOUT PONDING) IN THE DIRECTION OF FLOW NOT LESS THAN 0.5% AT ANY POINT
<b>PAVEMENT</b>		
SUBBASE	-10mm / +10mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)
SUBBASE	-10mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)
SUBBASE	-5mm / +5mm	ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION) OVER A LENGTH OF 3 METRES
BASECOURSE	-0mm / +20mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)
BASECOURSE	-0mm / +10mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)
BASECOURSE	-5mm / +5mm	ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION) OVER A LENGTH OF 3 METRES
SEAL	-0mm / +10mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER ROLLING AGGREGATE)
SEAL	-5mm / +10mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE DATE OF PRACTICAL COMPLETION
SEAL	SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE JOINTS, MUST NOT POND WATER.	
ASPHALT	-0mm / +10mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION)
ASPHALT	-5mm / +5mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE DATE OF PRACTICAL COMPLETION
ASPHALT	-8mm / +8mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE COMPLETION OF THE DEFECT LIABILITY PERIOD
ASPHALT	SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE JOINTS, MUST NOT POND WATER.	
<b>CONCRETE</b>		
KERB	-5mm / +5mm	ALONG THE TOP OF KERB OVER A LENGTH OF 5 METRES
KERB	-5mm / +5mm	ALONG THE FACE OF KERB OVER A LENGTH OF 5 METRES
PATH	-0mm / +10mm	OF FOOTPATH/SHARED PATH FINISHED SURFACE LEVEL
PATH	SURFACE OF THE PATH, INCLUDING JOINTS, MUST NOT POND WATER.	
<b>VERGE</b>		
TURF	-10mm / +0mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC)
MULCH	-10mm / +0mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC)
<b>RETAINING / NOISE WALLS</b>		
WALL	-20mm / +20mm	FROM ANY POINT ON THE WALL THE LEVEL MUST NOT DEVIATE FROM THAT SPECIFIED
WALL	-10mm / +10mm	INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (BLOCK WALL)
WALL	-5mm / +0mm	INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (PANEL WALL)
WALL	-20mm / +20mm	FLATNESS OF THE FACE OF THE WALL MUST BE SUCH THAT THE MAXIMUM DEVIATION FROM A 4.5 M STRAIGHT EDGE

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23

Bar Scales	


Client

Scales	N.T.S.	Drawn	
		Designed	NT
Grid	MGA2020	Checked	SM
		Approved	AT
Height Datum	AHD		
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Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**GENERAL NOTES  
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  
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www.atl.net.au  
info@atl.net.au

Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	Issue
Project - Drawing No.	<b>23-1123-C0002</b>	Issue
		<b>D</b>



## HOLD POINT INSPECTION REQUIREMENTS

### NOTE:

THESE HOLD POINT INSPECTIONS ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT AUTHORITY SPECIFICATIONS AND INSPECTION REQUIREMENTS. WHERE DISCREPANCIES BETWEEN REQUIREMENTS OCCURS, THE AUTHORITY SPECIFICATIONS AND INSPECTION REQUIREMENTS TAKE PRECEDENCE

MANDATORY INSPECTIONS ARE CARRIED OUT AT THE FOLLOWING STAGES:

### CONSTRUCTION OF STORMWATER

- a) PIPES BEFORE BACKFILLING, INCLUDING TRENCH EXCAVATION & BEDDING ZONE
- b) BACKFILL TO EMBEDMENT ZONE
- c) PIT BASES & HEADWALL APRONS
- d) FORMWORK & REO FOR ANY IN-SITU PITS & HEADWALLS. (PRE-POUR)
- e) GPT (OR OTHER TREATMENT CHAMBERS) INSTALLATION
- f) CONNECTION TO EXISTING SYSTEM
- g) TAILOUT WORKS
- h) FINAL INSPECTION

### CONSTRUCTION OF ROAD PAVEMENT



- a) BOXING OUT & SUBGRADE PROOF ROLL / ROLLER TEST
- b) SUB-BASE PROOF ROLL / ROLLER TEST (PER LAYER LAYER)
- c) KERB SET OUT / KERB PRE-LAYING
- d) BASE-COURSE PROOF ROLL / AND ROLLER TESTS
- e) SPRAY SEAL
- f) WEARING COURSE
- g) FINAL INSPECTION

### CONSTRUCTION OF FOOTPATHS/DRIVEWAYS

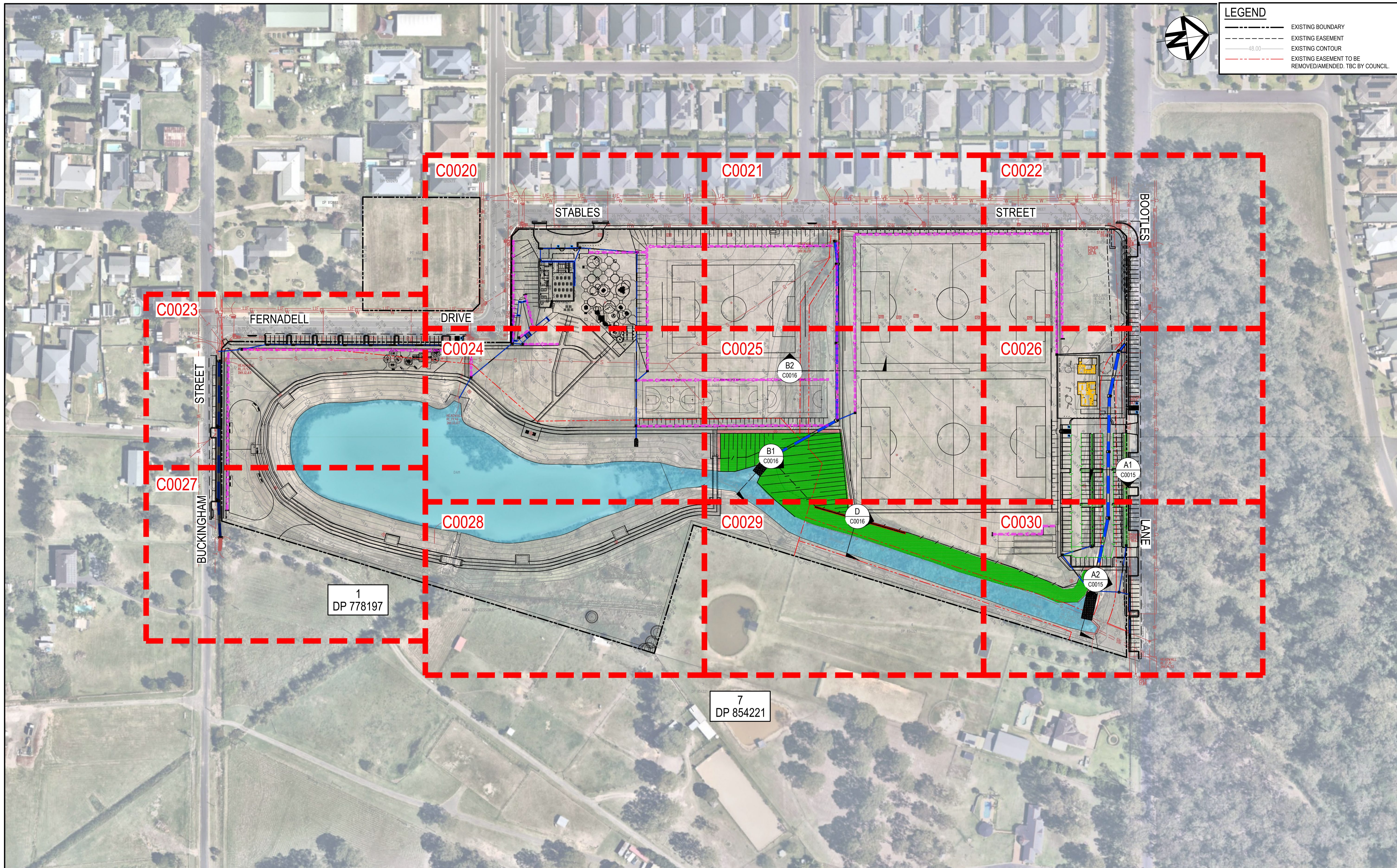
- a) FOOTPATH/DRIVEWAY TRIMMING (TO ENSURE CROSSFALL)
- b) FOOTPATH/DRIVEWAY SUBGRADE
- c) FOOTPATH/DRIVEWAY BEDDING & REINFORCEMENT (PRE-POUR)
- d) FINAL INSPECTION

### CONSTRUCTION OF FOOTPATHS/DRIVEWAYS

- FINAL INSPECTION
- a) STORMWATER PITS
- b) FINAL ASPHALT LAYER
- c) SIGNAGE
- d) LINE-MARKING
- e) DEFECTS INSPECTION
- f) DEFECTS RECTIFICATION
- g) HANDOVER

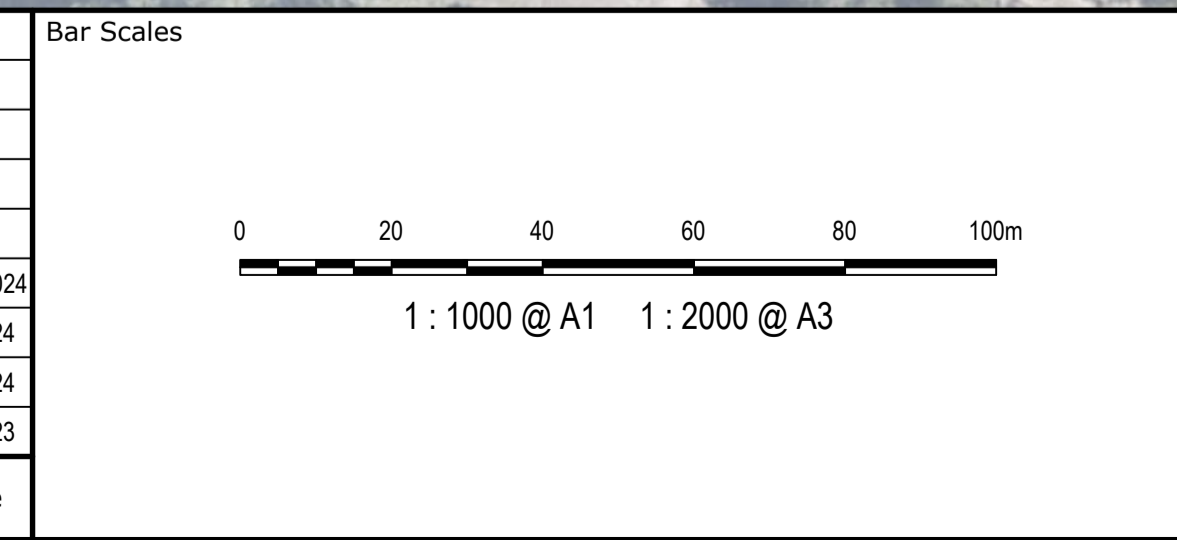
		Bar Scales		Client		Scales		Drawn		Project		Civil Engineers and Project Managers			
						N.T.S.		NT		FERNADELL RESERVE PITT TOWN NSW 2756		 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au			
						MGA2020		Designed						SM	
						AHD		Checked						SM	
						GDA2020		Approved		AT					
B FOR TENDER		29-08-2024				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		GENERAL NOTES SHEET 2		Status		A1			
A 80% DESIGN ISSUE		12-04-24								Project - Drawing No.		23-1123-C0002A		Issue	
Issue		Description		Date											





LEGEND	
	EXISTING BOUNDARY
	EXISTING EASEMENT
	EXISTING CONTOUR
	EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client



Scales	1 : 1000	Drawn	NT
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**GENERAL ARRANGEMENT  
 PLAN**

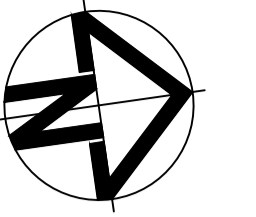
Civil Engineers and Project Managers

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

Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0003	Issue
		D

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Lower_value	Upper_value	Colour
-100	to -4.0	m
-4.0	to -3.5	m
-3.5	to -3.0	m
-3.0	to -2.5	m
-2.5	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.0	m
-1.0	to -0.5	m
-0.5	to 0.0	m
0.0	to 0.5	m
0.5	to 1.0	m
1.0	to 1.5	m
1.5	to 2.0	m
2.0	to 2.5	m
2.5	to 3.0	m
3.0	to 3.5	m
3.5	to 4.0	m
4.0	to 100	m

- NOTES**  
EARTHWORKS VOLUMES SHOWN ARE APPROXIMATE ONLY.
- THE VOLUMES HAVE BEEN CALCULATED USING:
- 200mm STRIPPING OF EXISTING SURFACE (SURVEY BY MCKINLAY MORGAN & ASSOCIATES DATED 02/02/2023)
  - 150mm THICK STRUCTURAL SLAB FOR PROPOSED COMMUNITY CENTRE AND AMENITIES BUILDINGS
  - 150mm THICKNESS ASSUMED ACROSS ALL LANDSCAPED, SPORTING FIELDS, PLAY AND COURT AREAS
  - PAVEMENT THICKNESS ADOPTED AS PER DRAWINGS C0035 TO C0036.
- THE VOLUMES DO NOT TAKE INTO ACCOUNT:
- BULKING FACTORS OF REMOVED CUT
  - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
  - STORMWATER AND UTILITIES TRENCHING
  - BACK FILL OF ANY PROPOSED RETAINING WALLS
  - CLOUDED AREA EXCLUDED FROM CALCULATIONS

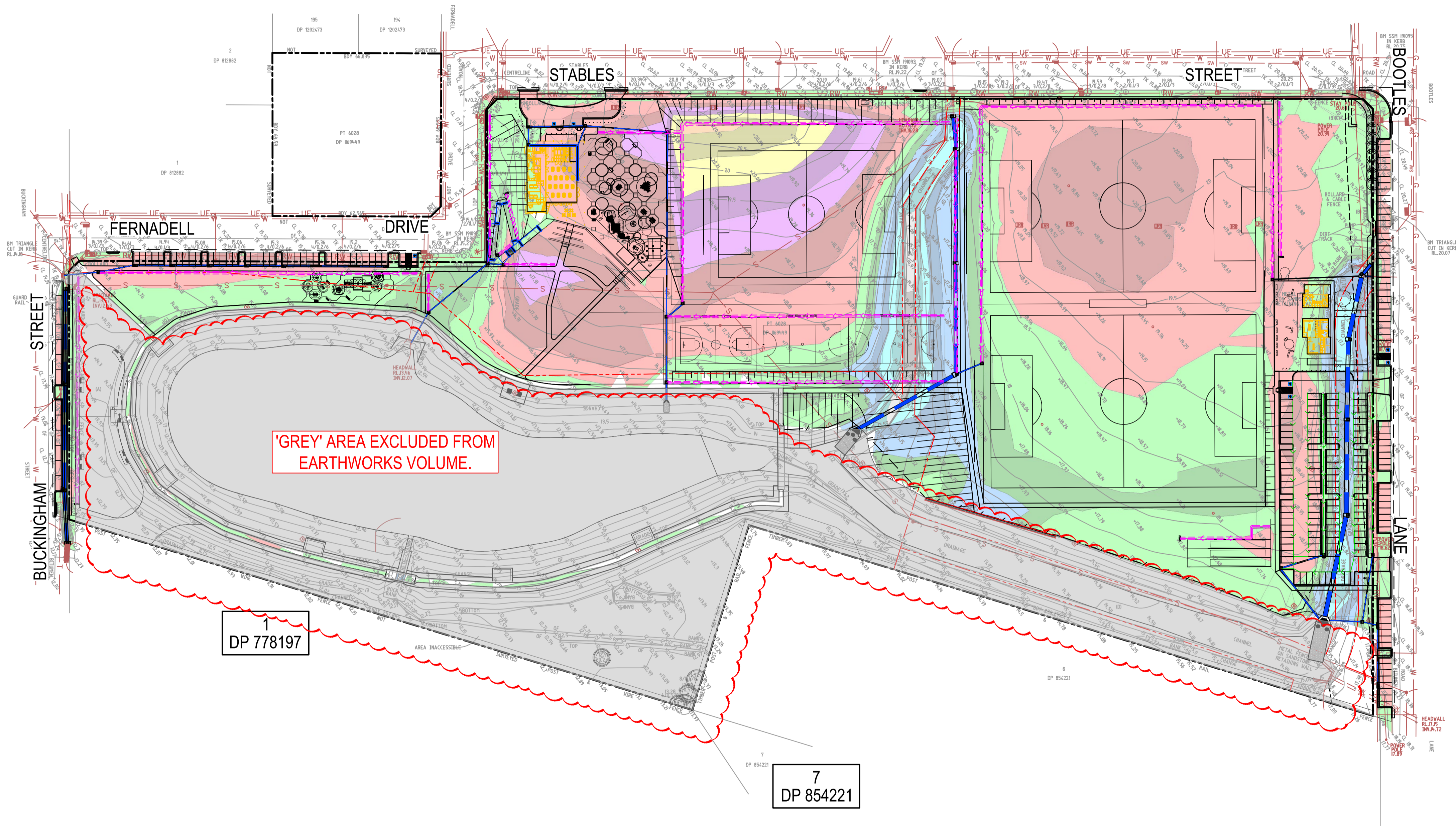
**EARTHWORKS VOLUMES**

TOTAL: CUT	-18701m <sup>3</sup>
TOTAL: FILL	20083m <sup>3</sup>
BALANCE:	1382m <sup>3</sup> (IMPORT)

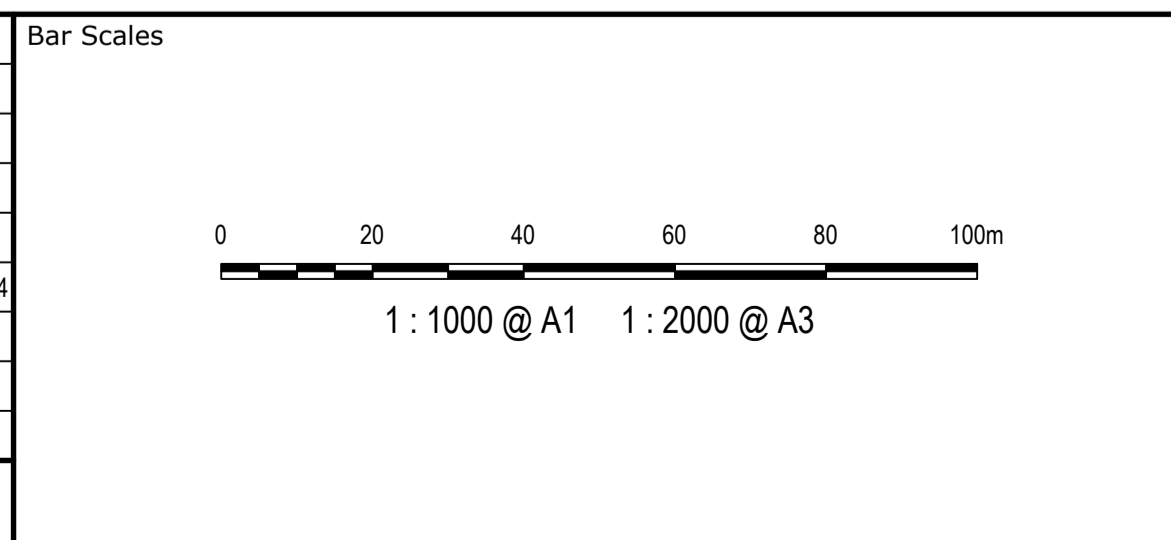
**STRIPPING VOLUMES**

VOLUME:	12677m <sup>3</sup>
---------	---------------------

NOTE: STRIPPED TOPSOIL ASSUMED TO BE REMOVED FROM SITE.



Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client



Scale	1:2000	Drawn	NT
Grid	MGA2020	Designed	SM
Height Datum	AHD	Checked	SM
		Approved	AT

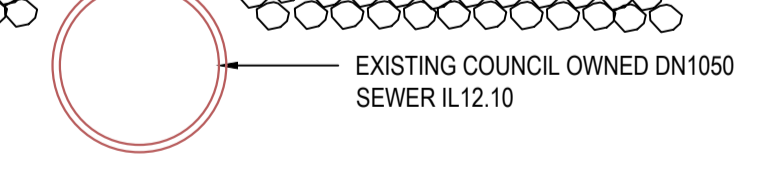
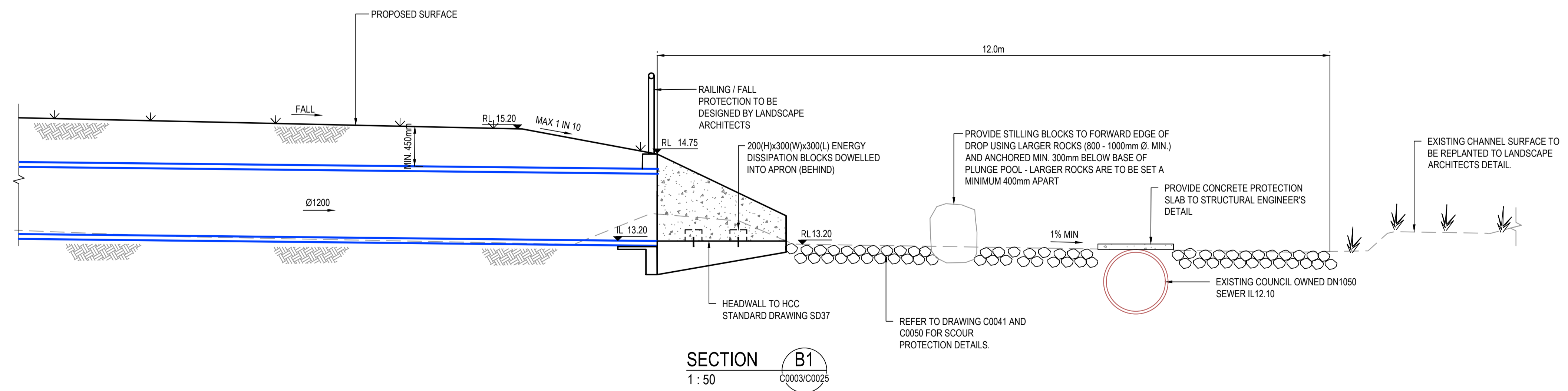
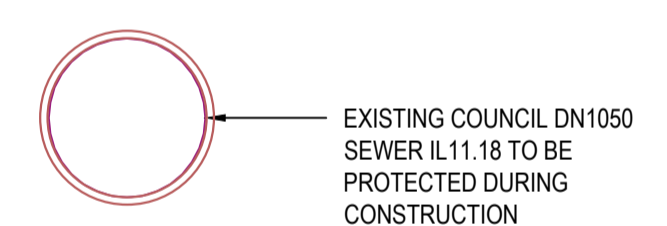
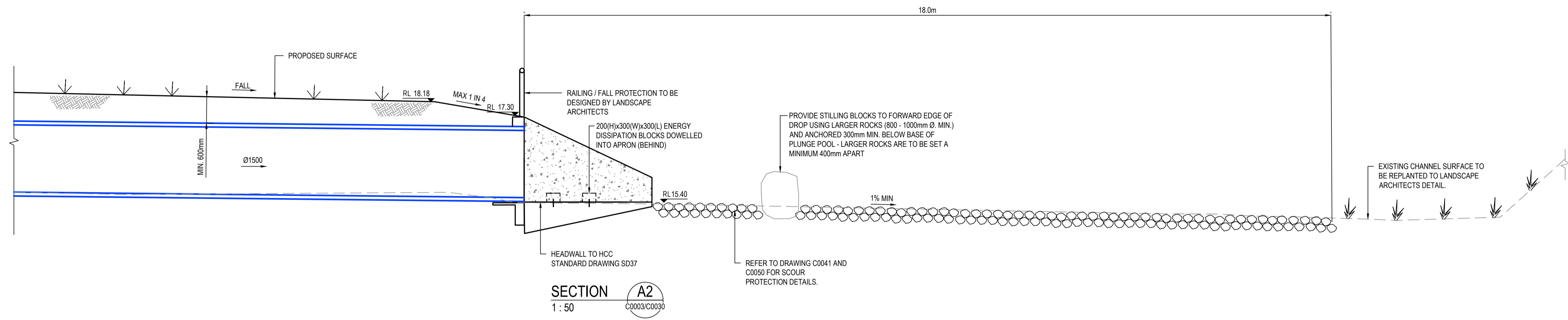
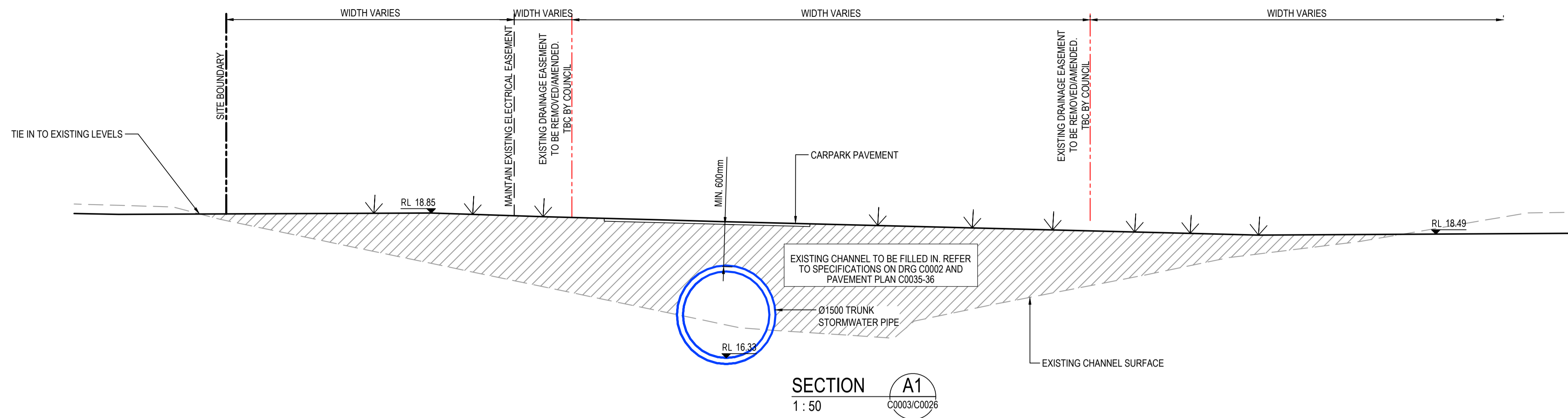
GDA2020

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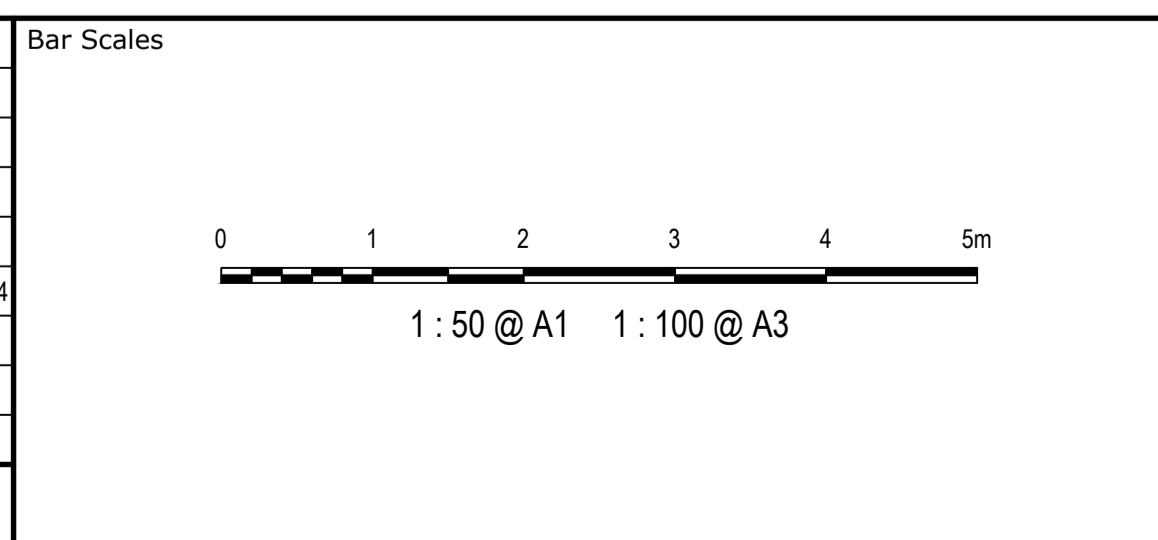
Project	FERNADELL RESERVE PITT TOWN NSW 2756
Title	BULK EARTHWORKS PLAN

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1123-C0010
Issue	D





Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client



AS SHOWN	Drawn	JS
	Designed	SM
Grid MGA2020	Checked	SM
Height Datum AHD	Approved	AT

Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**TYPICAL SECTIONS  
 SHEET 1**

Civil Engineers and Project Managers

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

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

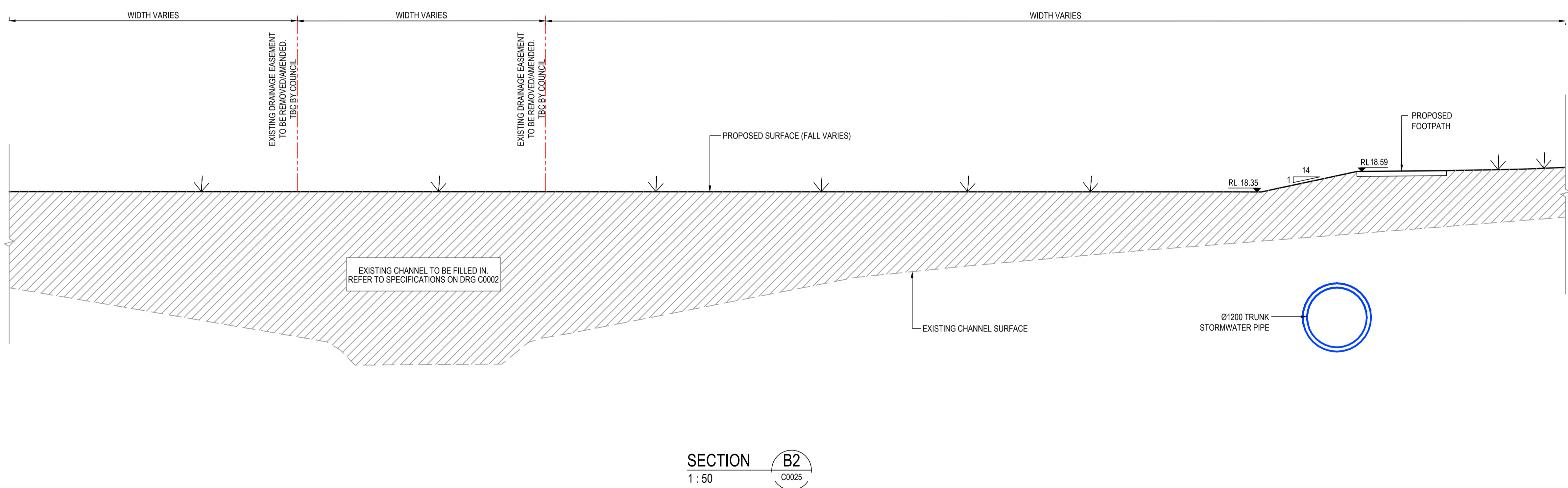
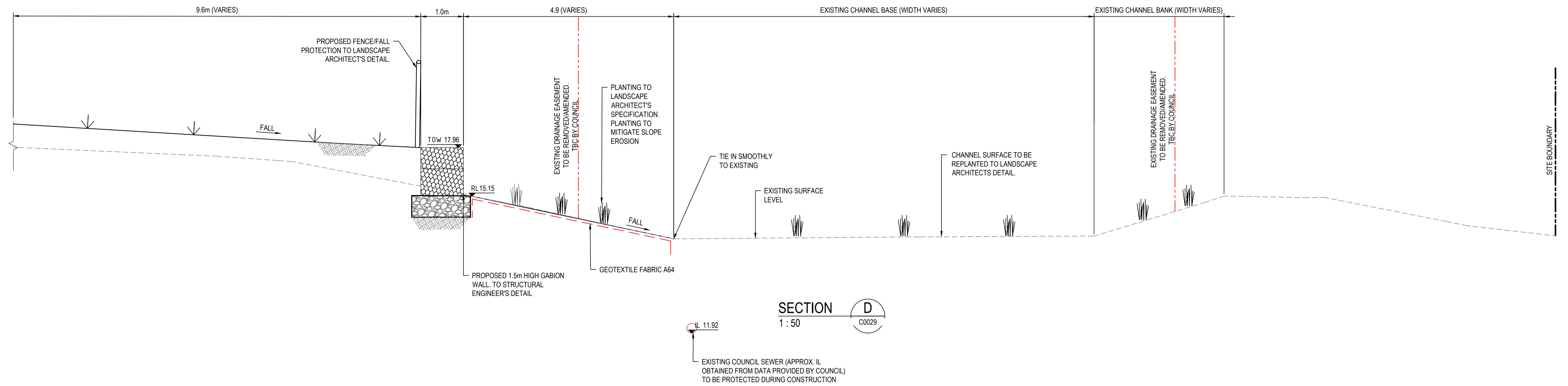
Project - Drawing No.  
**23-1123-C0015**

Issue  
**D**

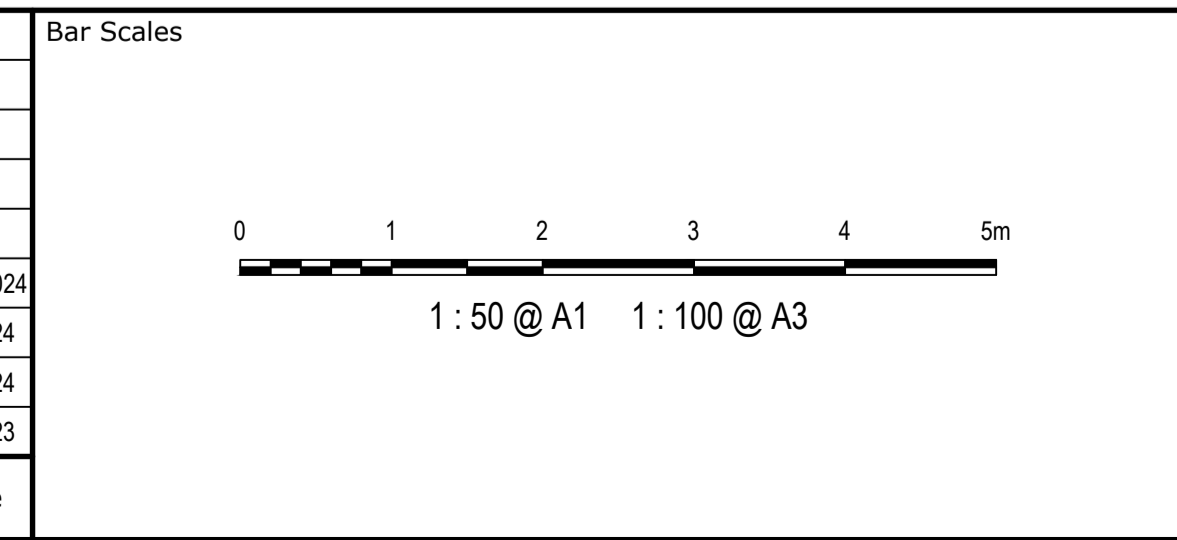
**GDA2020**

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Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client



AS SHOWN	Drawn	NT
MGA2020	Designed	SM
AHD	Checked	SM
	Approved	AT

GDA2020

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Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**TYPICAL SECTIONS  
 SHEET 2**

Civil Engineers and Project Managers

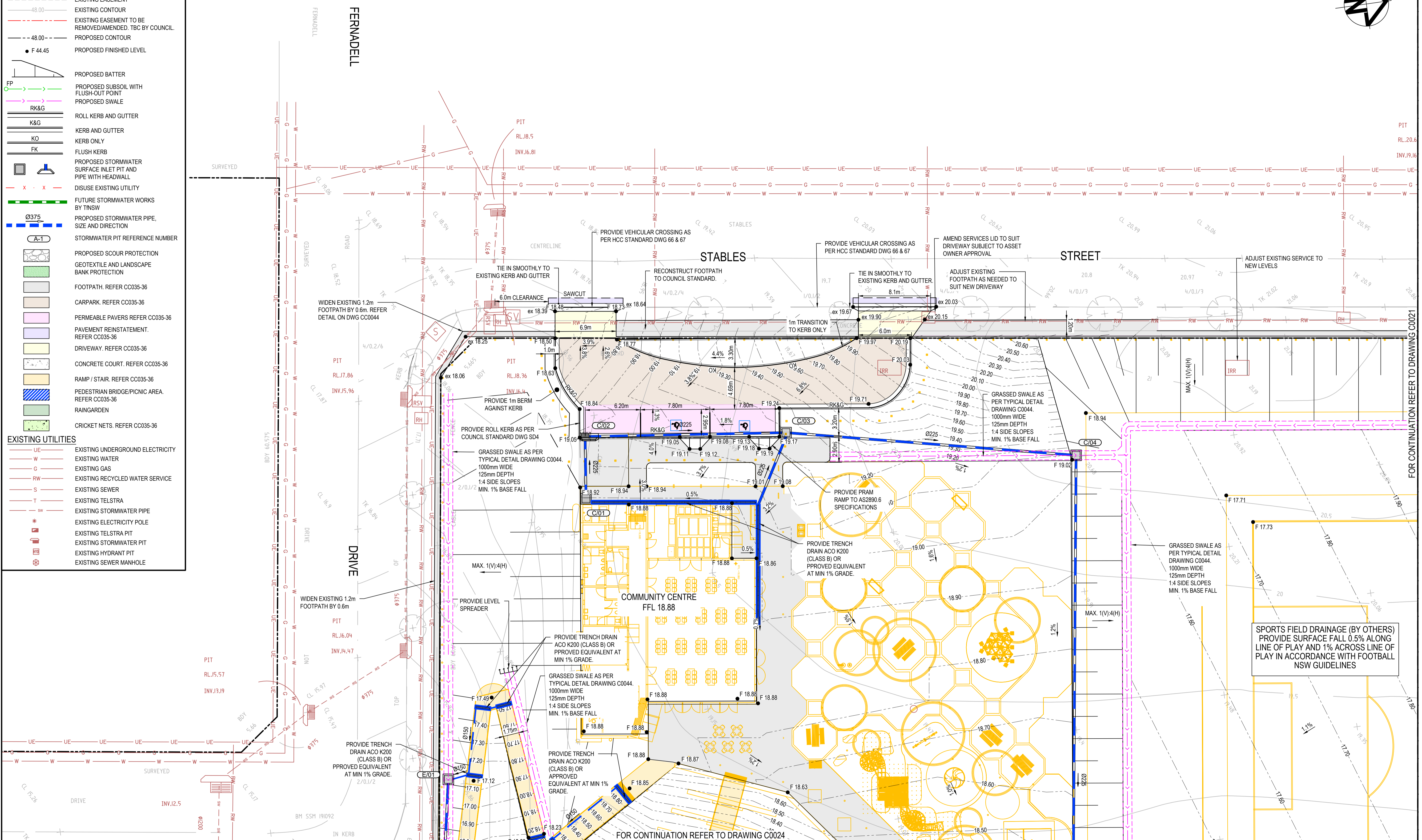
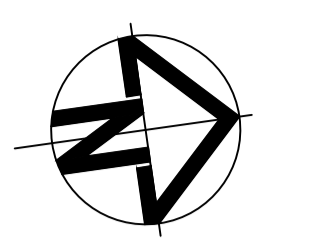
Level 7, 153 Walker Street  
 North Sydney NSW 2060  
 ABN 96 130 882 405  
 Tel: 02 9439 1777  
 Fax: 02 9923 1055  
 www.atl.net.au  
 info@atl.net.au

Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	23-1123-C0016	Issue
		D

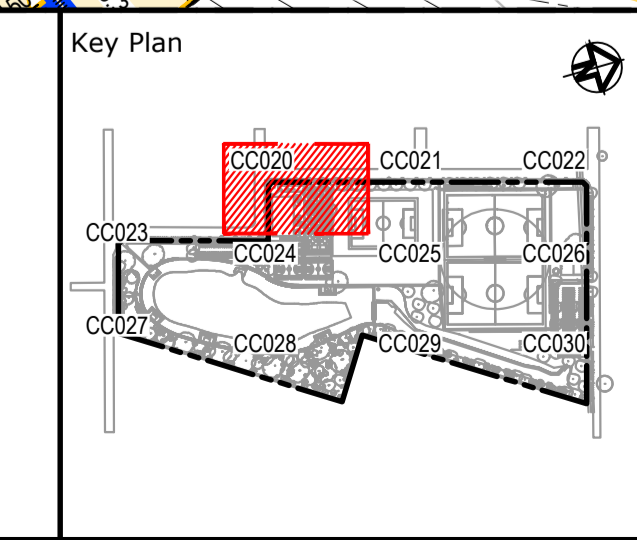
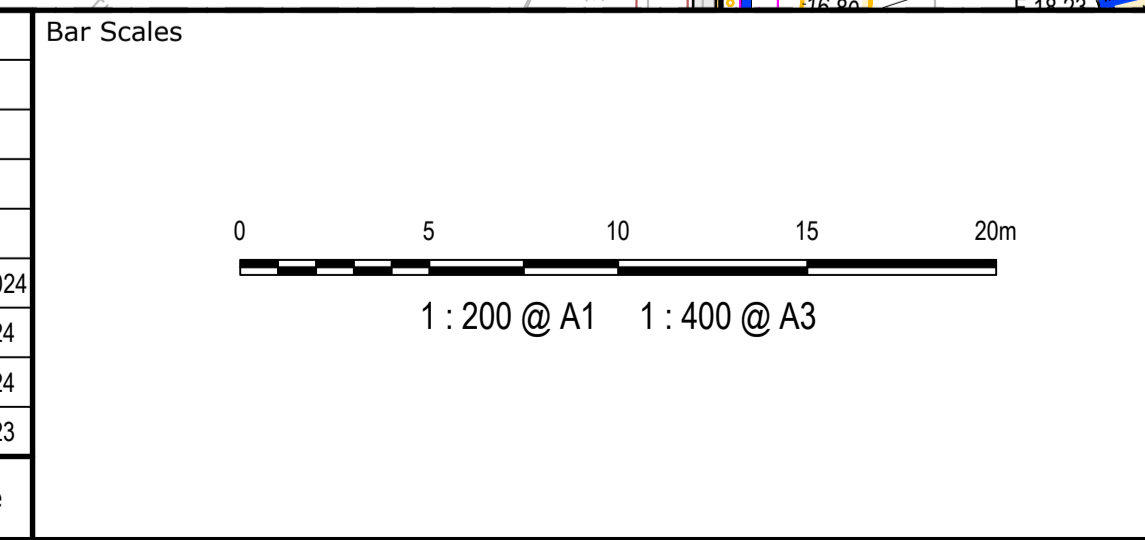


**SITWORKS LEGEND**

- EXISTING BOUNDARY
- EXISTING EASEMENT
- 48.00 EXISTING CONTOUR
- - - EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
- 48.00- PROPOSED CONTOUR
- F 44.45 PROPOSED FINISHED LEVEL
- PROPOSED BATTER
- FP PROPOSED SUBSOIL WITH FLUSH-OUT POINT
- PROPOSED SWALE
- RK&G ROLL KERB AND GUTTER
- K&G KERB AND GUTTER
- KO KERB ONLY
- FK FLUSH KERB
- PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
- DISUSE EXISTING UTILITY
- FUTURE STORMWATER WORKS BY TNSW
- Ø375 PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
- A-1 STORMWATER PIT REFERENCE NUMBER
- PROPOSED SCOUR PROTECTION
- GEOTEXTILE AND LANDSCAPE BANK PROTECTION
- FOOTPATH. REFER CC035-36
- CARPARK. REFER CC035-36
- PERMEABLE PAVERS REFER CC035-36
- PAVEMENT REINSTATEMENT. REFER CC035-36
- DRIVEWAY. REFER CC035-36
- CONCRETE COURT. REFER CC035-36
- RAMP / STAIR. REFER CC035-36
- PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
- RAINGARDEN
- CRICKET NETS. REFER CC035-36
- EXISTING UTILITIES
- UE EXISTING UNDERGROUND ELECTRICITY
- W EXISTING WATER
- G EXISTING GAS
- RW EXISTING RECYCLED WATER SERVICE
- S EXISTING SEWER
- T EXISTING TELSTRA
- SW EXISTING STORMWATER PIPE
- \* EXISTING ELECTRICITY POLE
- EXISTING TELSTRA PIT
- EXISTING STORMWATER PIT
- EXISTING HYDRANT PIT
- EXISTING SEWER MANHOLE



Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client

Scales	1:200
Grid	MGA2020
Height Datum	AHD
Drawn	JS
Designed	SM
Checked	SM
Approved	AT

Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**SITWORKS AND STORMWATER  
DRAINAGE PLAN  
SHEET 1**

Civil Engineers and Project Managers

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

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

Project - Drawing No.  
**23-1123-C0020**

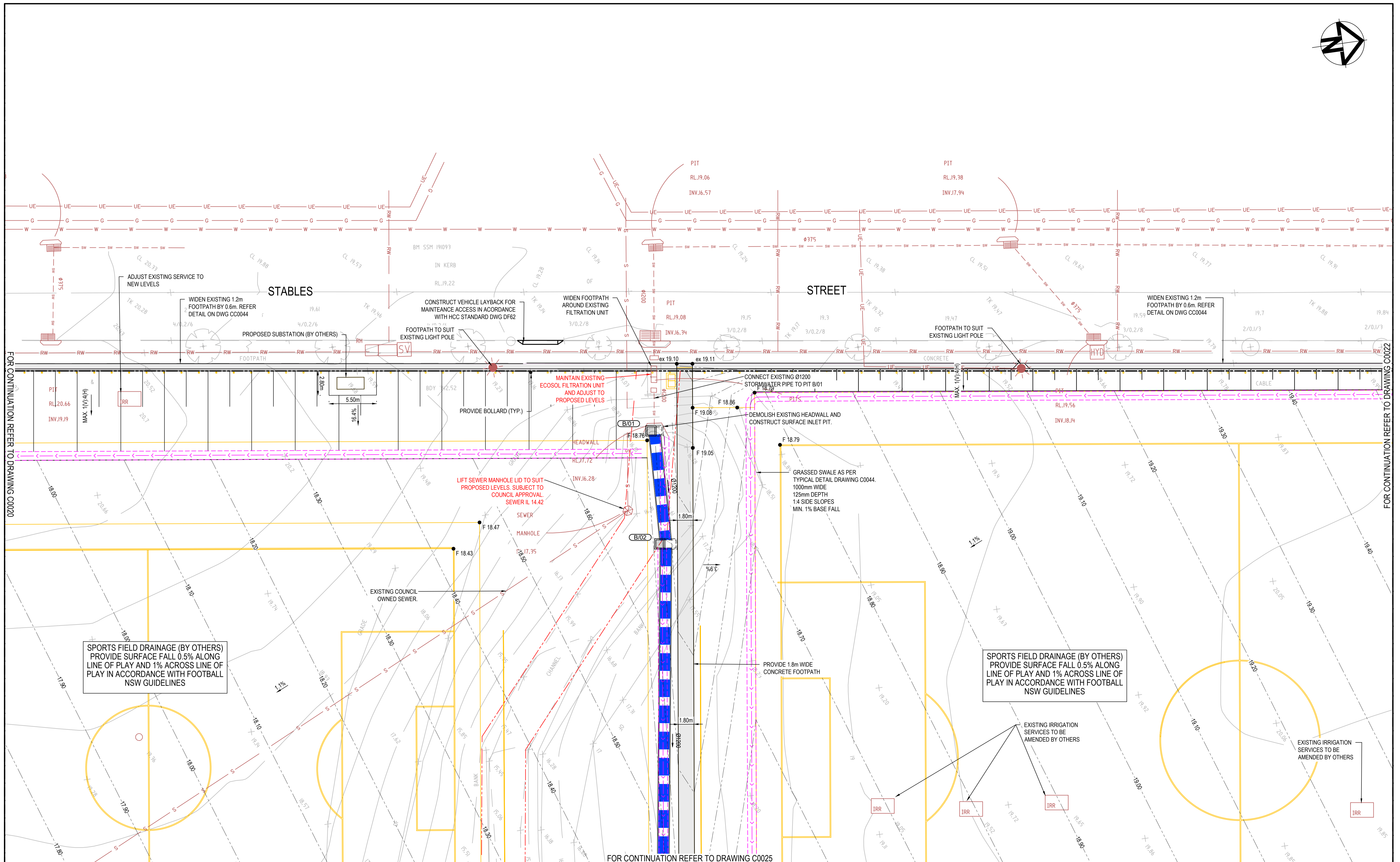
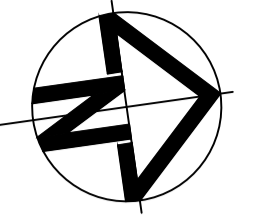
Issue  
**D**

SPORTS FIELD DRAINAGE (BY OTHERS)  
PROVIDE SURFACE FALL 0.5% ALONG  
LINE OF PLAY AND 1% ACROSS LINE OF  
PLAY IN ACCORDANCE WITH FOOTBALL  
NSW GUIDELINES

FOR CONTINUATION REFER TO DRAWING C0021

FOR CONTINUATION REFER TO DRAWING C0024



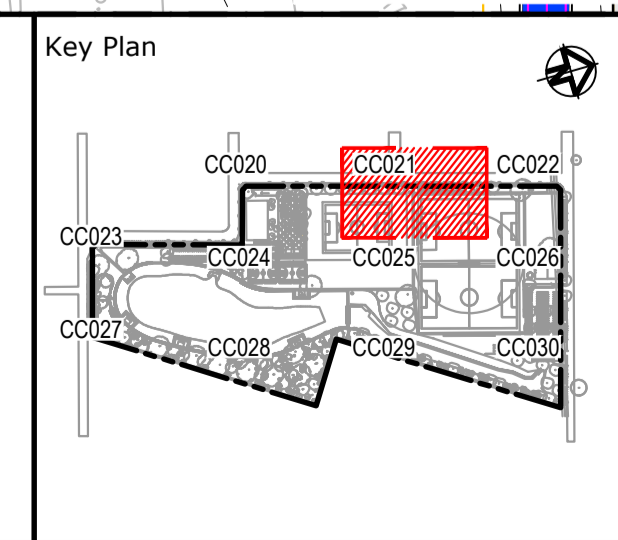
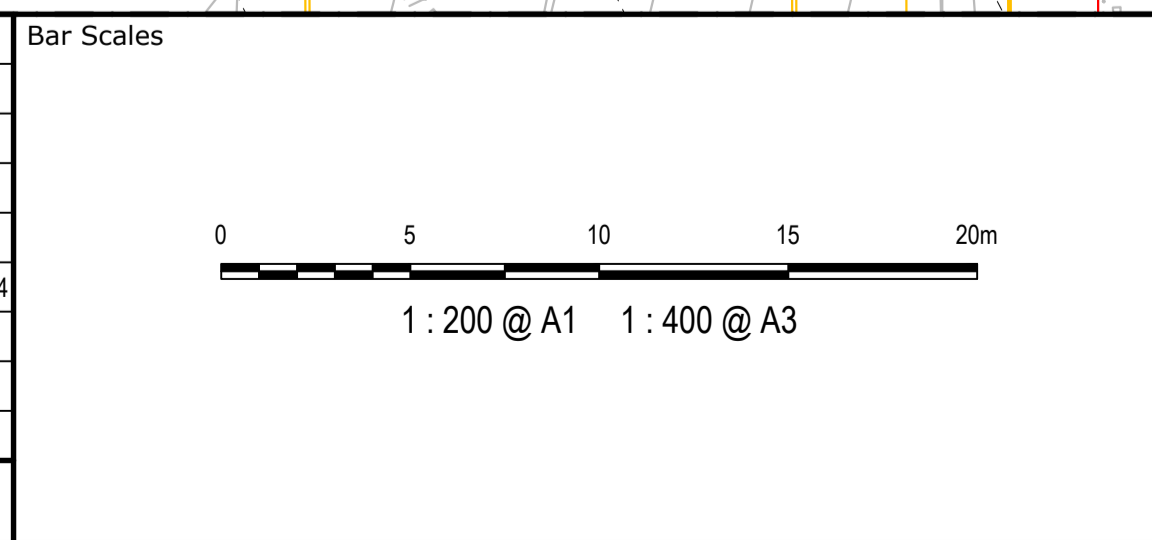


FOR CONTINUATION REFER TO DRAWING C0020

FOR CONTINUATION REFER TO DRAWING C0022

FOR CONTINUATION REFER TO DRAWING C0025

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

**SITWORKS AND STORMWATER  
DRAINAGE PLAN  
SHEET 2**

Civil Engineers and Project Managers

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

Status

**FOR TENDER  
NOT TO BE USED FOR CONSTRUCTION**

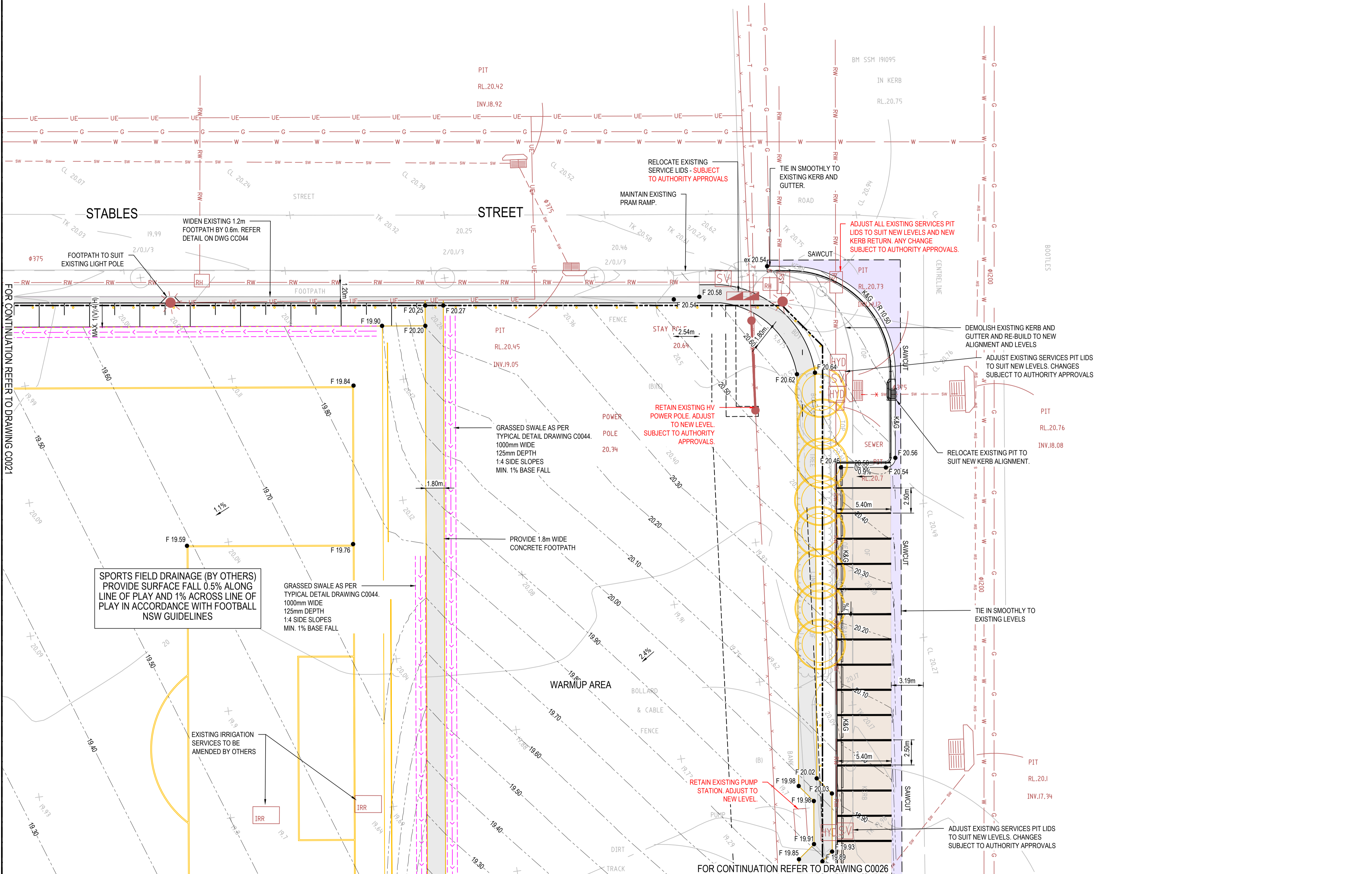
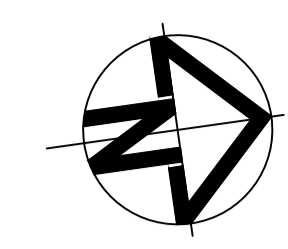
Project - Drawing No.

**23-1123-C0021**

Issue

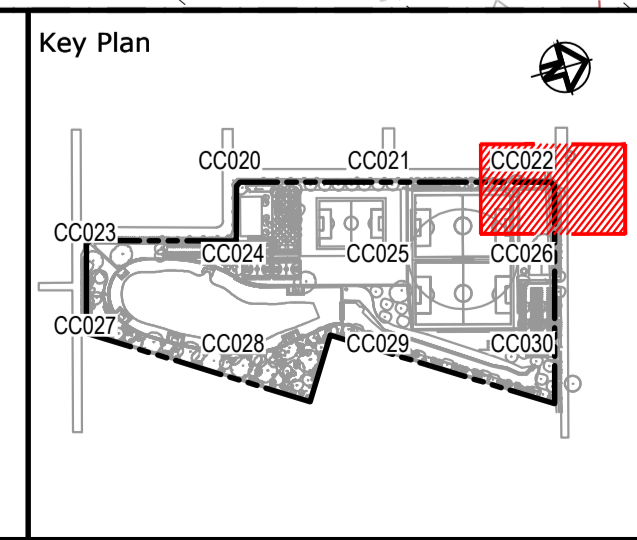
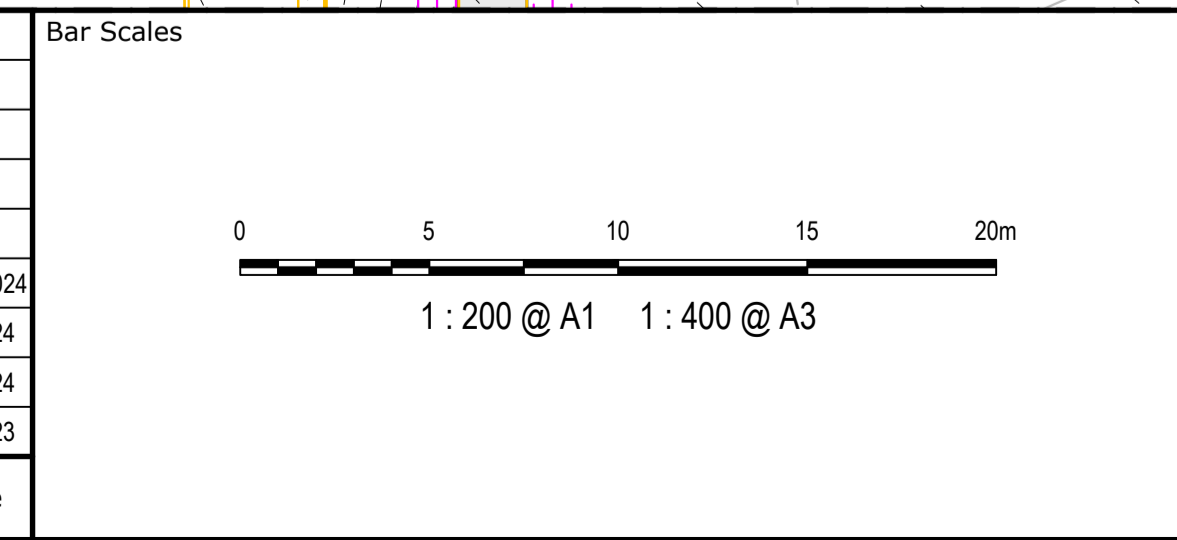
**D**





SITeworks LEGEND	
	EXISTING BOUNDARY
	EXISTING EASEMENT
	EXISTING CONTOUR
	EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
	PROPOSED CONTOUR
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER
	PROPOSED SUBSOIL WITH FLUSH-OUT POINT
	PROPOSED SWALE
	ROLL KERB AND GUTTER
	K&G
	KERB AND GUTTER
	KERB ONLY
	FLUSH KERB
	PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
	DISUSE EXISTING UTILITY
	FUTURE STORMWATER WORKS BY TINSW
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	STORMWATER PIT REFERENCE NUMBER
	PROPOSED SCOUR PROTECTION
	GEOTEXTILE AND LANDSCAPE BANK PROTECTION
	FOOTPATH. REFER CC035-36
	CARPARK. REFER CC035-36
	PERMEABLE PAVERS REFER CC035-36
	PAVEMENT REINSTATEMENT. REFER CC035-36
	DRIVEWAY. REFER CC035-36
	CONCRETE COURT. REFER CC035-36
	RAMP / STAIR. REFER CC035-36
	PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
	RAINGARDEN
	CRICKET NETS. REFER CC035-36
EXISTING UTILITIES	
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING WATER
	EXISTING GAS
	EXISTING RECYCLED WATER SERVICE
	EXISTING SEWER
	EXISTING TELSTRA
	EXISTING STORMWATER PIPE
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT
	EXISTING STORMWATER PIT
	EXISTING HYDRANT PIT
	EXISTING SEWER MANHOLE

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**SITeworks AND STORMWATER  
 DRAINAGE PLAN  
 SHEET 3**

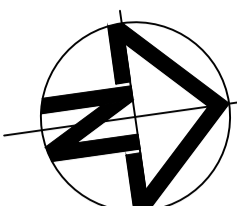
Civil Engineers and Project Managers

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 North Sydney NSW 2060  
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 www.atl.net.au  
 info@atl.net.au

Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0022</b>	Issue
		<b>D</b>

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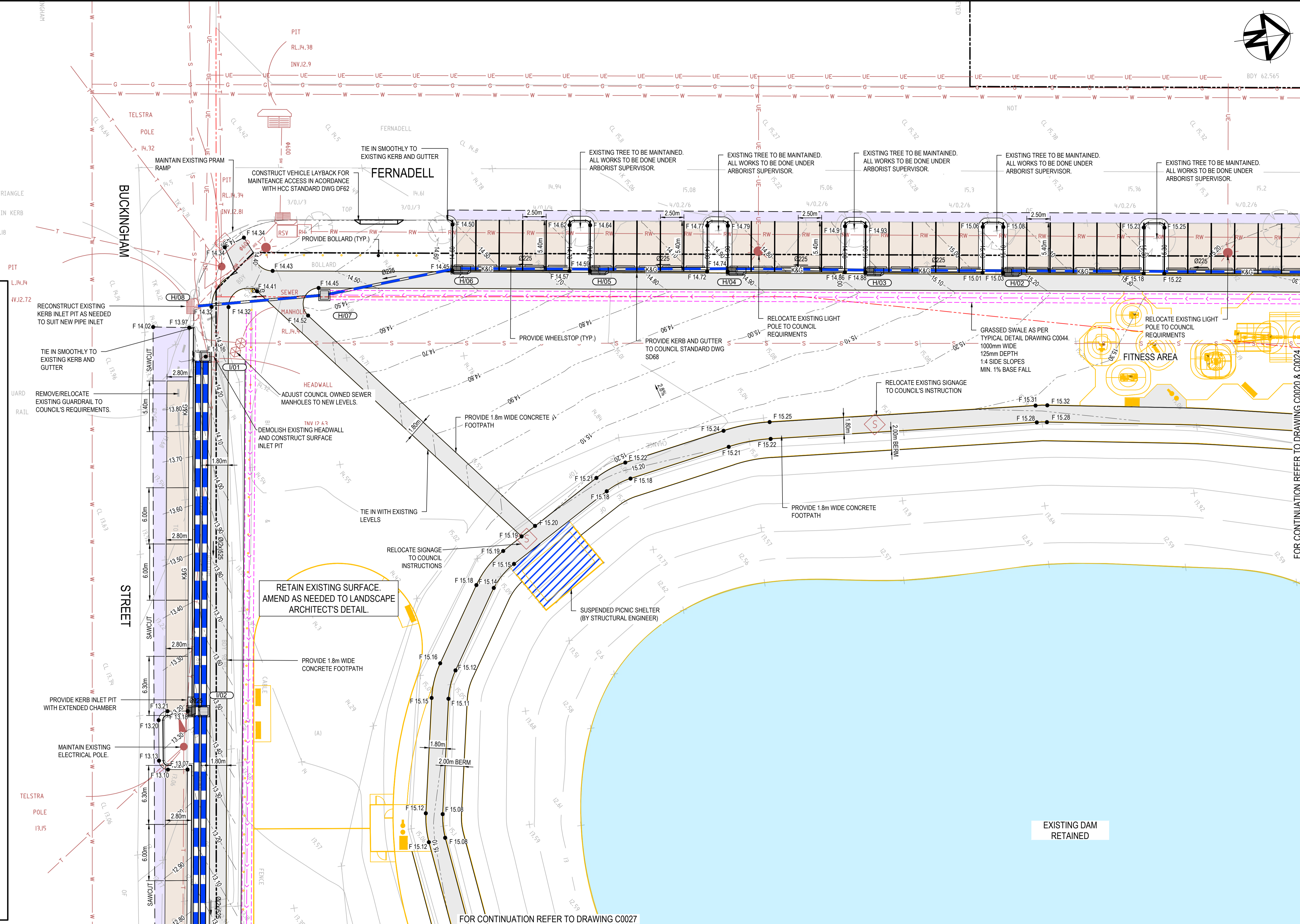


### SITeworks LEGEND

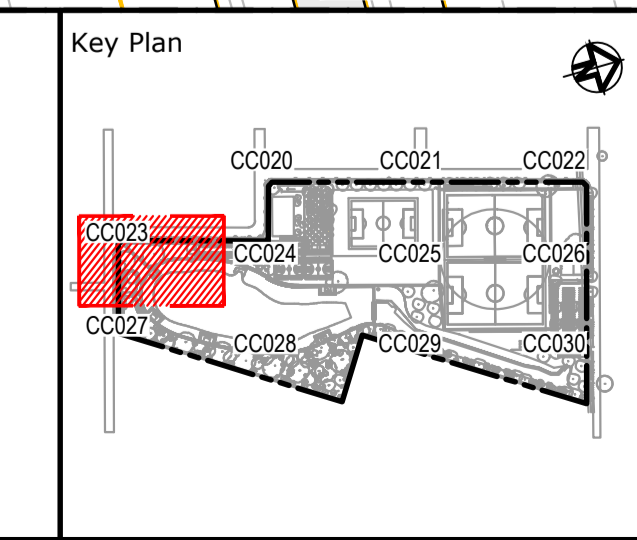
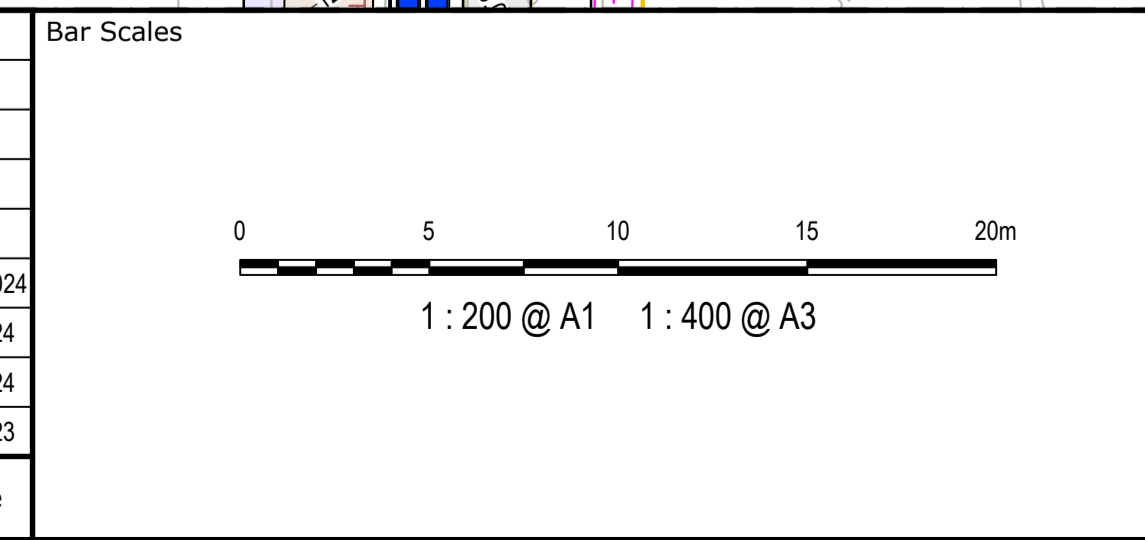
- EXISTING BOUNDARY
- EXISTING EASEMENT
- 48.00 EXISTING CONTOUR
- EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
- 48.00 --- PROPOSED CONTOUR
- F 44.45 PROPOSED FINISHED LEVEL
- PROPOSED BATTER
- FP --- PROPOSED SUBSOIL WITH FLUSH-OUT POINT
- PROPOSED SWALE
- ROLL KERB AND GUTTER
- KERB AND GUTTER
- KERB ONLY
- FLUSH KERB
- PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
- DISUSE EXISTING UTILITY
- FUTURE STORMWATER WORKS BY TINSW
- PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
- STORMWATER PIT REFERENCE NUMBER
- PROPOSED SCOUR PROTECTION
- GEOTEXTILE AND LANDSCAPE BANK PROTECTION
- FOOTPATH. REFER CC035-36
- CARPARK. REFER CC035-36
- PERMEABLE PAVERS REFER CC035-36
- PAVEMENT REINSTATEMENT. REFER CC035-36
- DRIVEWAY. REFER CC035-36
- CONCRETE COURT. REFER CC035-36
- RAMP / STAIR. REFER CC035-36
- PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
- RAINGARDEN
- CRICKET NETS. REFER CC035-36

### EXISTING UTILITIES

- UE --- EXISTING UNDERGROUND ELECTRICITY
- W --- EXISTING WATER
- G --- EXISTING GAS
- RW --- EXISTING RECYCLED WATER SERVICE
- S --- EXISTING SEWER
- T --- EXISTING TELSTRA
- SW --- EXISTING STORMWATER PIPE
- EP --- EXISTING ELECTRICITY POLE
- TP --- EXISTING TELSTRA PIT
- SP --- EXISTING STORMWATER PIT
- HP --- EXISTING HYDRANT PIT
- SM --- EXISTING SEWER MANHOLE



Issue	Description	Date
D	FOR TENDER	29-08-2024
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A	50% DESIGN ISSUE	03-11-23



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

**SITeworks AND STORMWATER  
DRAINAGE PLAN  
SHEET 4**

Civil Engineers and Project Managers

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www.ati.net.au  
info@ati.net.au

Status

**FOR TENDER  
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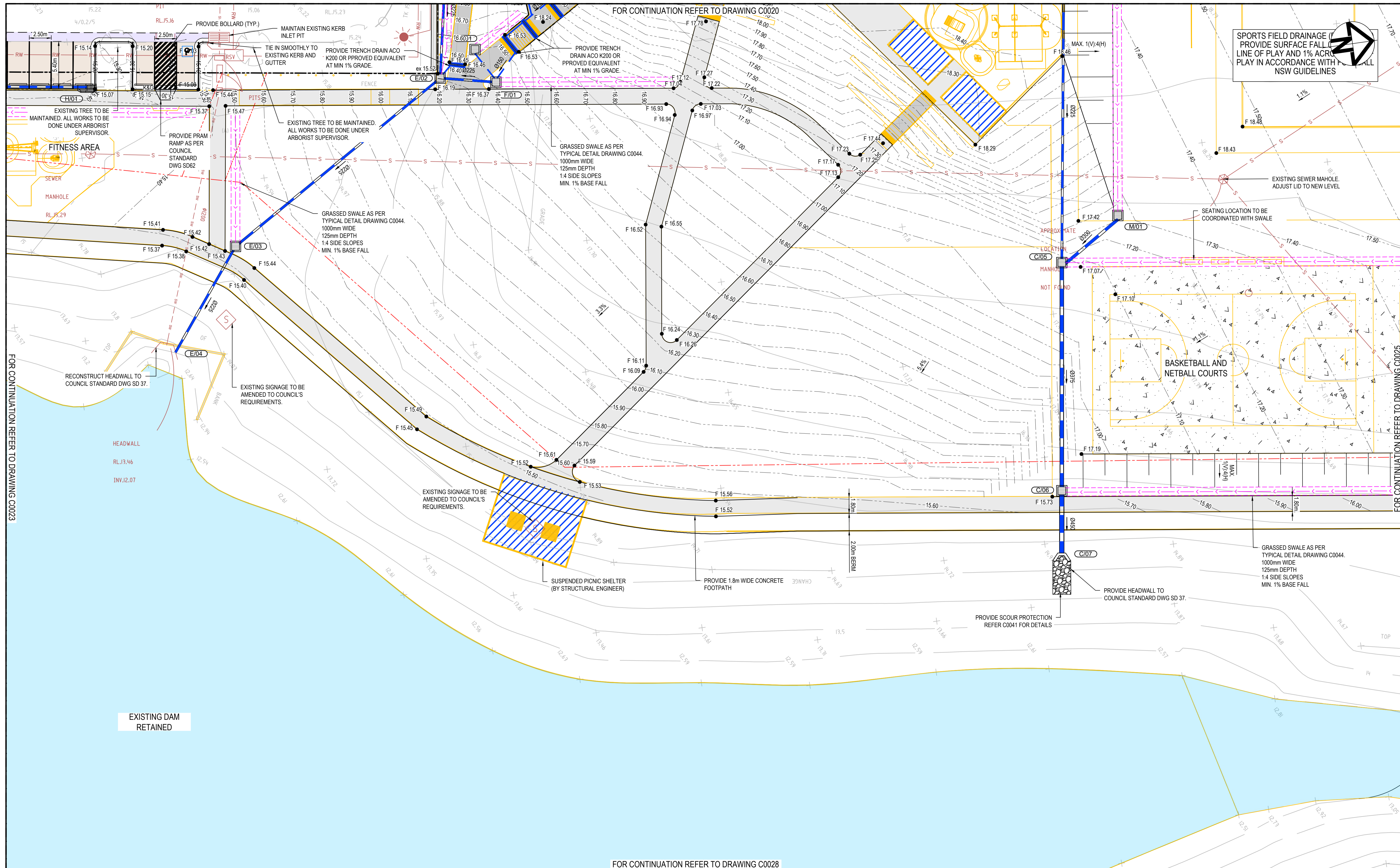
Project - Drawing No.

**23-1123-C0023**

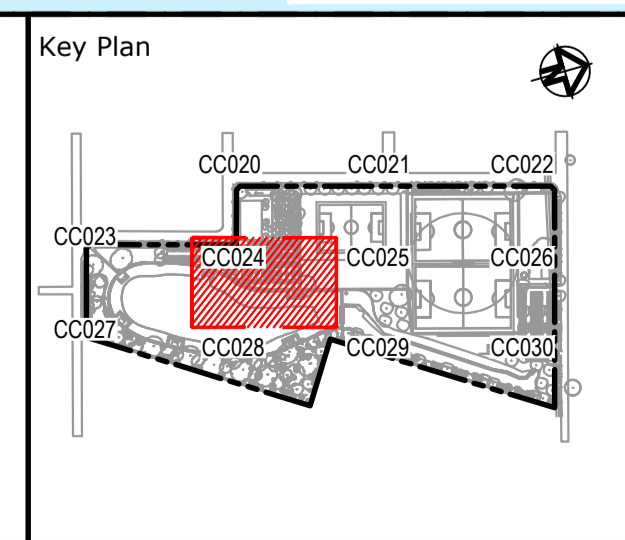
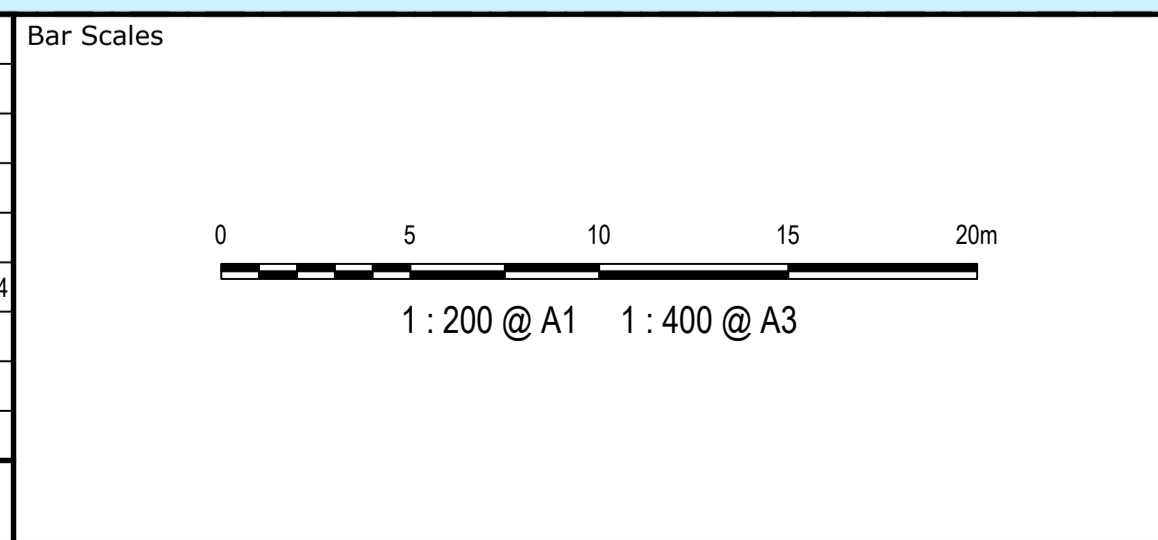
Issue

**D**





Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
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Client

Scales	1:200	Drawn	JS
Grid	MGA2020	Designed	SM
Height Datum	AHD	Checked	SM
		Approved	AT

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Project

**FARNEDELL RESERVE  
PITT TOWN  
NSW 2756**

Title

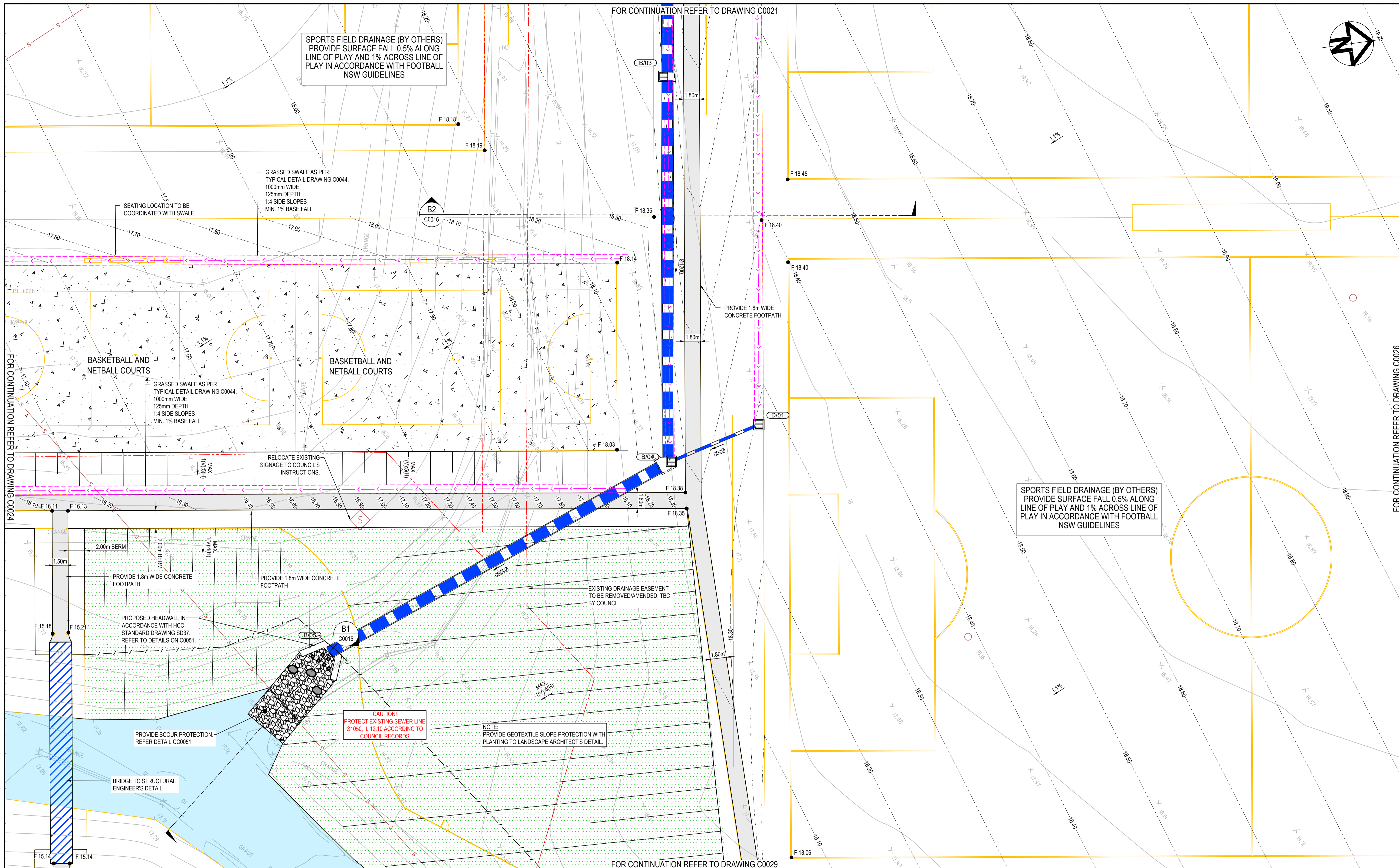
**SITWORKS AND STORMWATER  
DRAINAGE PLAN  
SHEET 5**

Civil Engineers and Project Managers

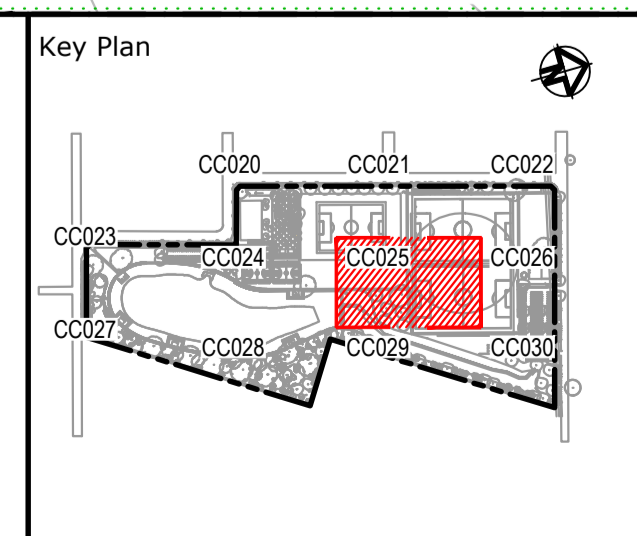
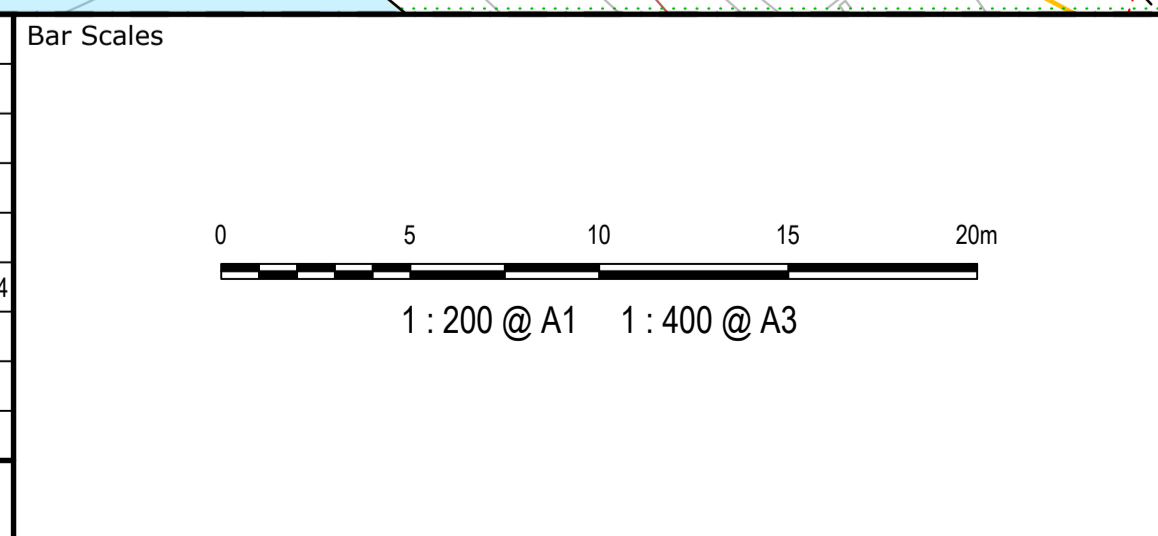
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
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Fax: 02 9923 1055  
www.at.net.au  
info@at.net.au

Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0024</b>	Issue
		<b>D</b>





Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
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A	50% DESIGN ISSUE	03-11-23



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**SITWORKS AND STORMWATER  
DRAINAGE PLAN  
SHEET 6**

Civil Engineers and Project Managers

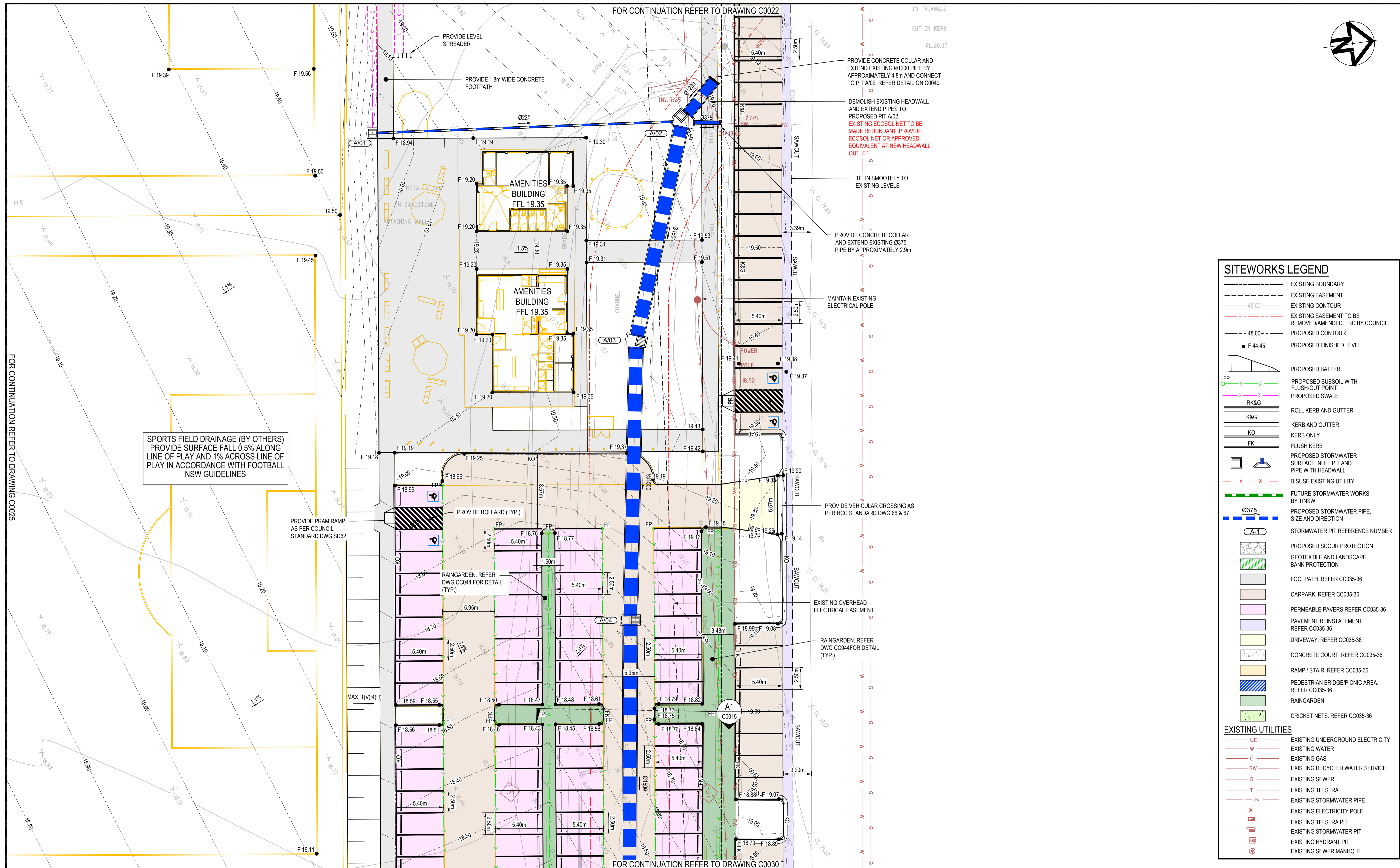
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
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Status  
**FOR TENDER  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1123-C0025**

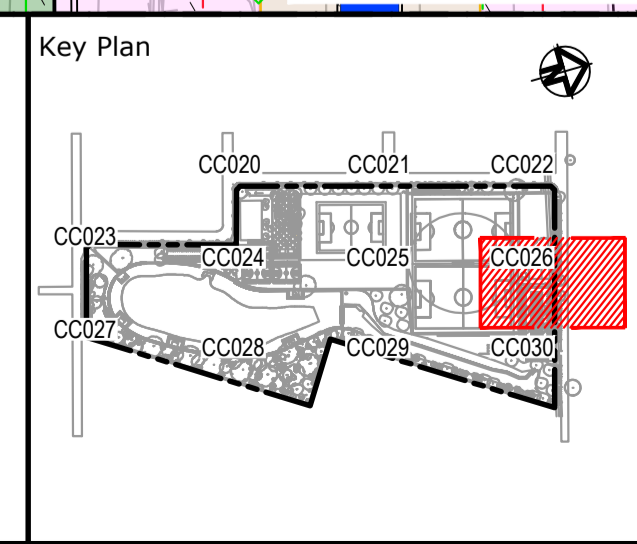
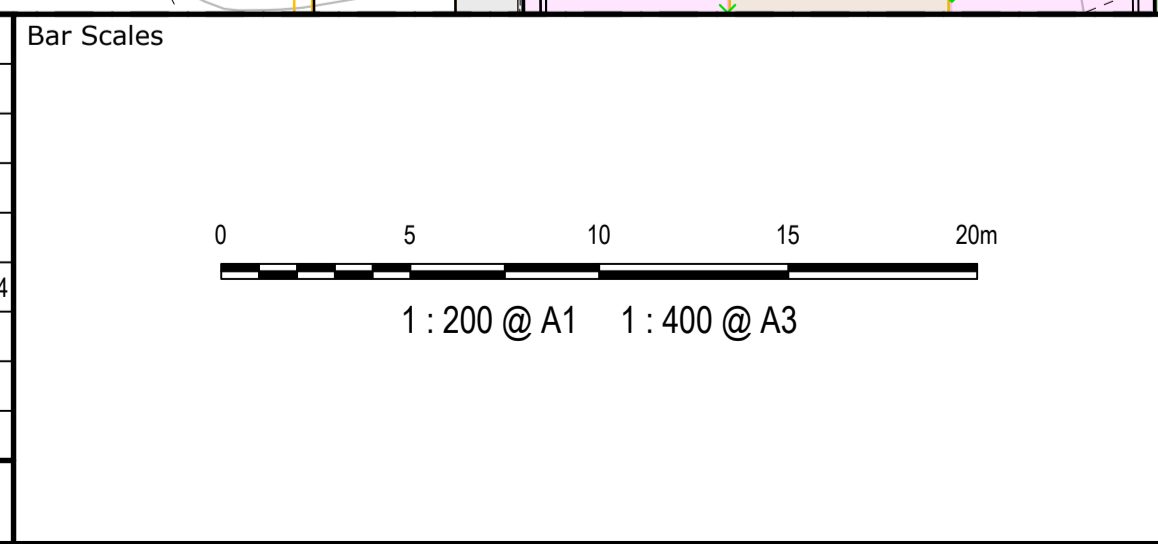
Issue  
**D**





SITWORKS LEGEND	
	EXISTING BOUNDARY
	EXISTING EASEMENT
	EXISTING CONTOUR
	EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
	PROPOSED CONTOUR
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER
	PROPOSED SUBSOIL WITH FLUSH-OUT POINT
	PROPOSED SWALE
	ROLL KERB AND GUTTER
	KERB AND GUTTER
	KERB ONLY
	FLUSH KERB
	PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
	DISUSE EXISTING UTILITY
	FUTURE STORMWATER WORKS BY TNSW
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	STORMWATER PIT REFERENCE NUMBER
	PROPOSED SCOUR PROTECTION
	GEOTEXTILE AND LANDSCAPE BANK PROTECTION
	FOOTPATH. REFER CC035-36
	CARPARK. REFER CC035-36
	PERMEABLE PAVERS REFER CC035-36
	PAVEMENT REINSTATEMENT. REFER CC035-36
	DRIVEWAY. REFER CC035-36
	CONCRETE COURT. REFER CC035-36
	RAMP / STAIR. REFER CC035-36
	PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
	RAINGARDEN
	CRICKET NETS. REFER CC035-36
EXISTING UTILITIES	
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING WATER
	EXISTING GAS
	EXISTING RECYCLED WATER SERVICE
	EXISTING SEWER
	EXISTING TELSTRA
	EXISTING STORMWATER PIPE
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT
	EXISTING STORMWATER PIT
	EXISTING HYDRANT PIT
	EXISTING SEWER MANHOLE

Issue	Description	Date
D	FOR TENDER	29-08-2024
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Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**SITWORKS AND STORMWATER  
 DRAINAGE PLAN  
 SHEET 7**

Civil Engineers and Project Managers

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 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

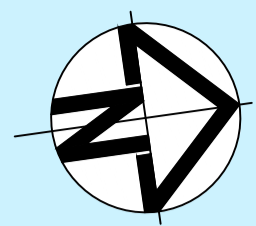
Status  
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Project - Drawing No.  
**23-1123-C0026**

Issue  
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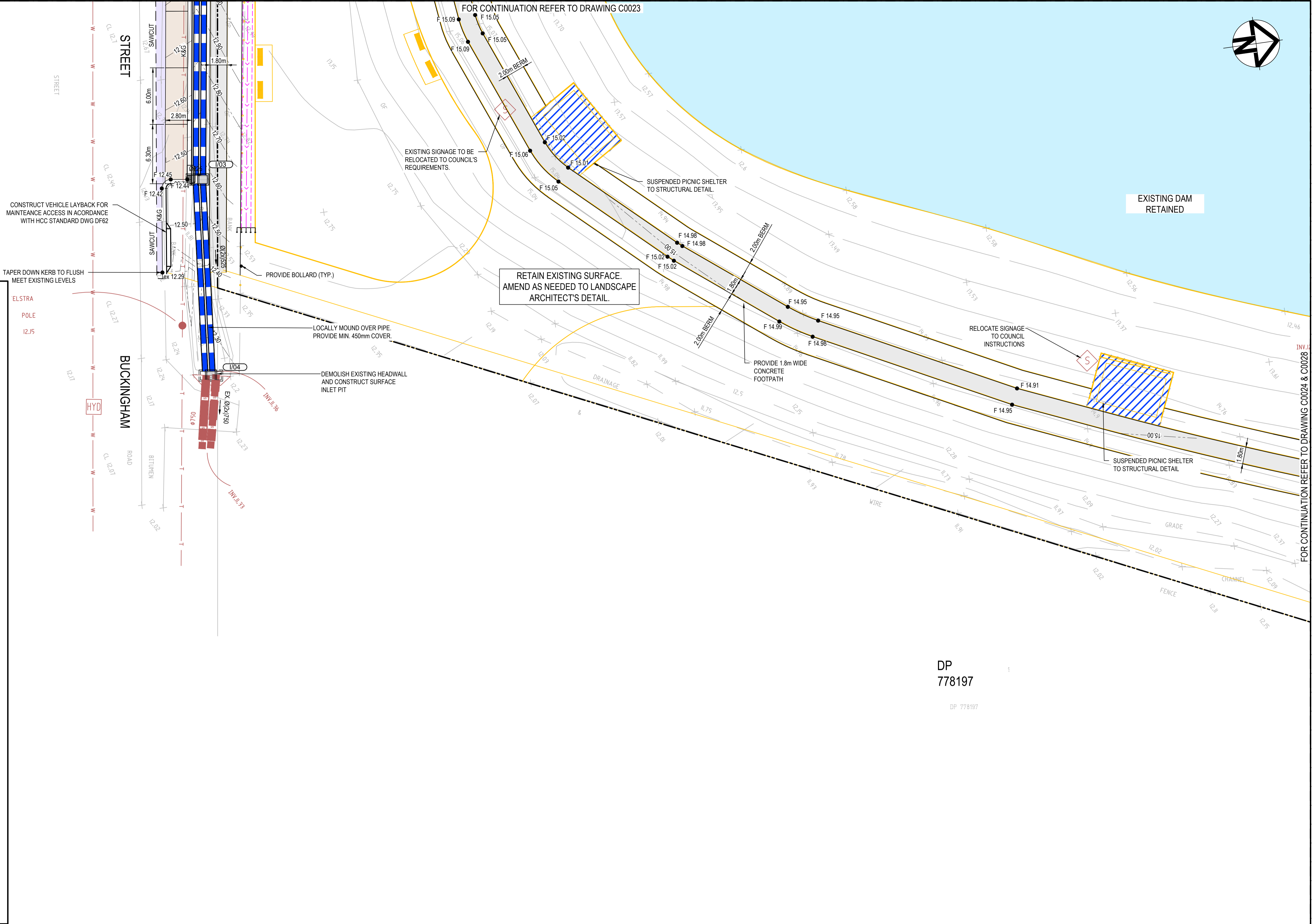


### SITeworks LEGEND

- EXISTING BOUNDARY
- EXISTING EASEMENT
- - - 48.00 EXISTING CONTOUR
- - - 48.00 EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
- - - 48.00 PROPOSED CONTOUR
- F 44.45 PROPOSED FINISHED LEVEL
- PROPOSED BATTER
- FP --- PROPOSED SUBSOIL WITH FLUSH-OUT POINT
- PROPOSED SWALE
- RK&G ROLL KERB AND GUTTER
- K&G KERB AND GUTTER
- KO KERB ONLY
- FK FLUSH KERB
- PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
- x - x - DISUSE EXISTING UTILITY
- FUTURE STORMWATER WORKS BY TINSW
- Ø375 PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
- A-1 STORMWATER PIT REFERENCE NUMBER
- PROPOSED SCOUR PROTECTION
- GEOTEXTILE AND LANDSCAPE BANK PROTECTION
- FOOTPATH. REFER CC035-36
- CARPARK. REFER CC035-36
- PERMEABLE PAVERS REFER CC035-36
- PAVEMENT REINSTATEMENT. REFER CC035-36
- DRIVEWAY. REFER CC035-36
- CONCRETE COURT. REFER CC035-36
- RAMP / STAIR. REFER CC035-36
- PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
- RAINGARDEN
- CRICKET NETS. REFER CC035-36

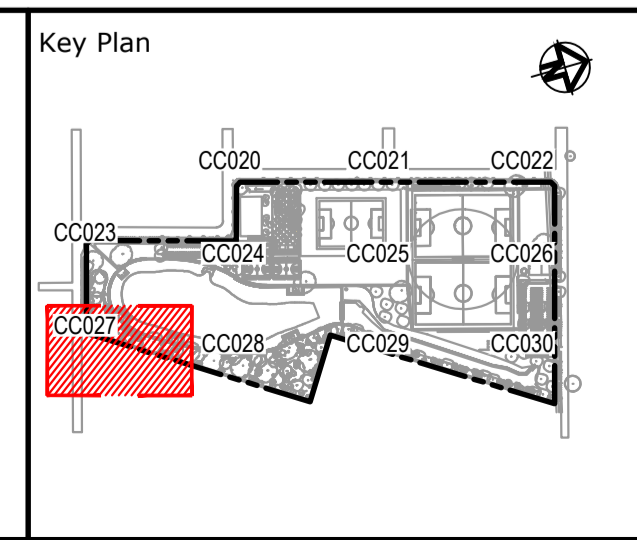
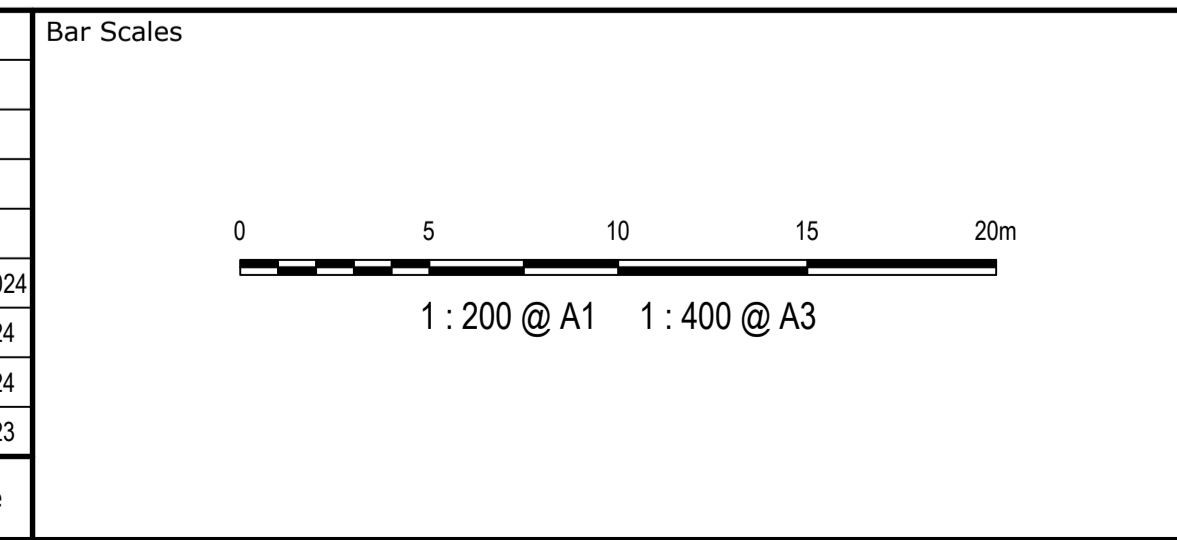
#### EXISTING UTILITIES

- UE--- EXISTING UNDERGROUND ELECTRICITY
- W--- EXISTING WATER
- G--- EXISTING GAS
- RW--- EXISTING RECYCLED WATER SERVICE
- S--- EXISTING SEWER
- T--- EXISTING TELSTRA
- SW--- EXISTING STORMWATER PIPE
- \* EXISTING ELECTRICITY POLE
- EXISTING TELSTRA PIT
- EXISTING STORMWATER PIT
- EXISTING HYDRANT PIT
- EXISTING SEWER MANHOLE



DP  
778197

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
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Client

Scales	1:200	Drawn	JS	
	Grid	MGA2020	Designed	SM
		Checked	SM	
Height Datum	AHD	Approved	AT	

Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

**SITeworks AND STORMWATER  
DRAINAGE PLAN  
SHEET 8**

Civil Engineers and Project Managers

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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0027</b>	Issue
		<b>D</b>

FOR CONTINUATION REFER TO DRAWING C0024 & C0028



EXISTING DAM  
RETAINED

SUSPENDED PICNIC SHELTER  
(BY STRUCTURAL ENGINEER)

PIT  
RL.12.7  
GRATE RL.12.87  
INV.10.5  
RETAIN EXISTING BASIN  
OUTLET

SUSPENDED PICNIC SHELTER  
(BY STRUCTURAL ENGINEER)

RELOCATE SIGNAGE  
TO COUNCIL  
INSTRUCTIONS

PEDESTRIAN BRIDGE TO STRUCTURAL  
ENGINEER'S DETAIL

PROVIDE 1.8m WIDE CONCRETE  
FOOTPATH

RETAIN EXISTING SURFACE.  
AMEND AS NEEDED TO LANDSCAPE  
ARCHITECT'S DETAIL.

### SITWORKS LEGEND

- EXISTING BOUNDARY
- EXISTING EASEMENT
- EXISTING CONTOUR
- EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
- PROPOSED CONTOUR
- PROPOSED FINISHED LEVEL
- PROPOSED BATTER
- PROPOSED SUBSOIL WITH FLUSH-OUT POINT
- PROPOSED SWALE
- ROLL KERB AND GUTTER
- K&G
- K&G
- KO
- FK
- PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
- DISUSE EXISTING UTILITY
- FUTURE STORMWATER WORKS BY TINSW
- PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
- STORMWATER PIT REFERENCE NUMBER
- PROPOSED SCOUR PROTECTION
- GEOTEXTILE AND LANDSCAPE BANK PROTECTION
- FOOTPATH. REFER CC035-36
- CARPARK. REFER CC035-36
- PERMEABLE PAVERS REFER CC035-36
- PAVEMENT REINSTATEMENT. REFER CC035-36
- DRIVEWAY. REFER CC035-36
- CONCRETE COURT. REFER CC035-36
- RAMP / STAIR. REFER CC035-36
- PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
- RAINGARDEN
- CRICKET NETS. REFER CC035-36

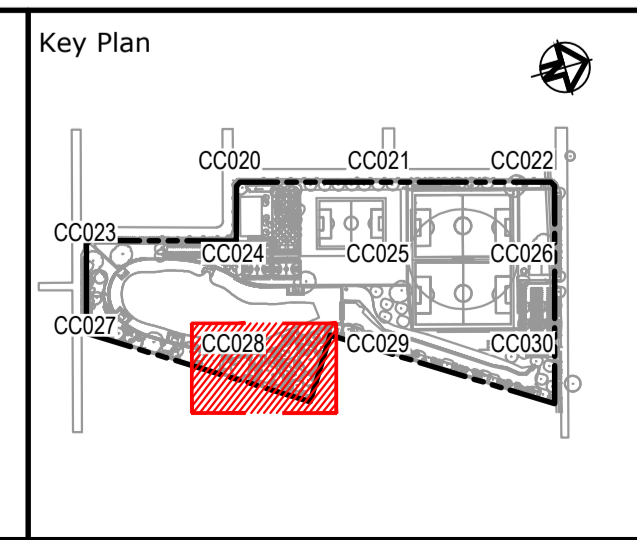
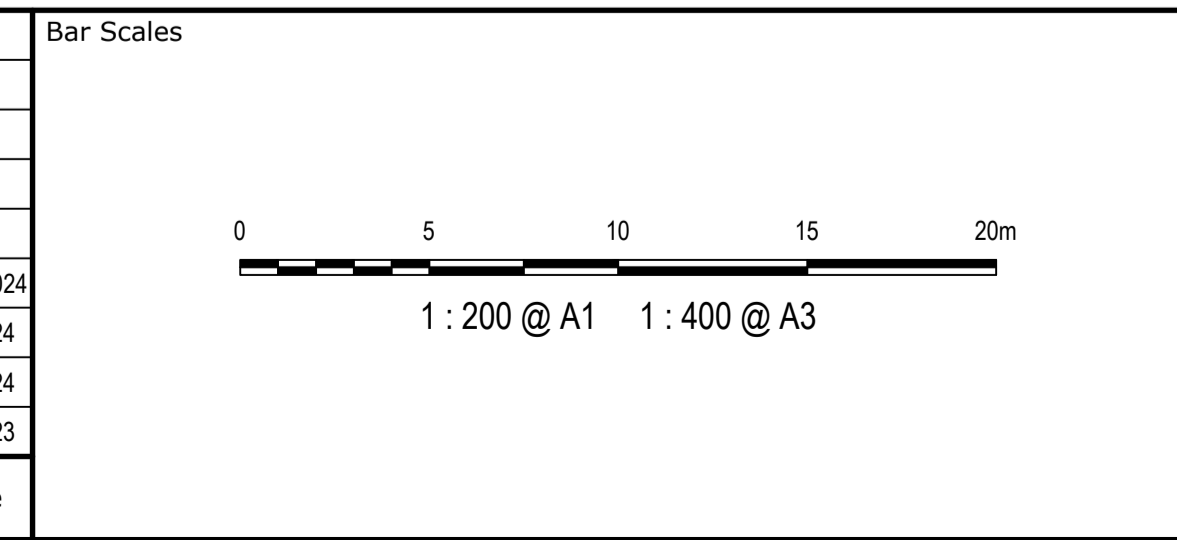
### EXISTING UTILITIES

- EXISTING UNDERGROUND ELECTRICITY
- EXISTING WATER
- EXISTING GAS
- EXISTING RECYCLED WATER SERVICE
- EXISTING SEWER
- EXISTING TELSTRA
- EXISTING STORMWATER PIPE
- EXISTING ELECTRICITY POLE
- EXISTING TELSTRA PIT
- EXISTING STORMWATER PIT
- EXISTING HYDRANT PIT
- EXISTING SEWER MANHOLE

FOR CONTINUATION REFER TO DRAWING C0027

FOR CONTINUATION REFER TO DRAWING C0029

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
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Client

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		Designed	SM
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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

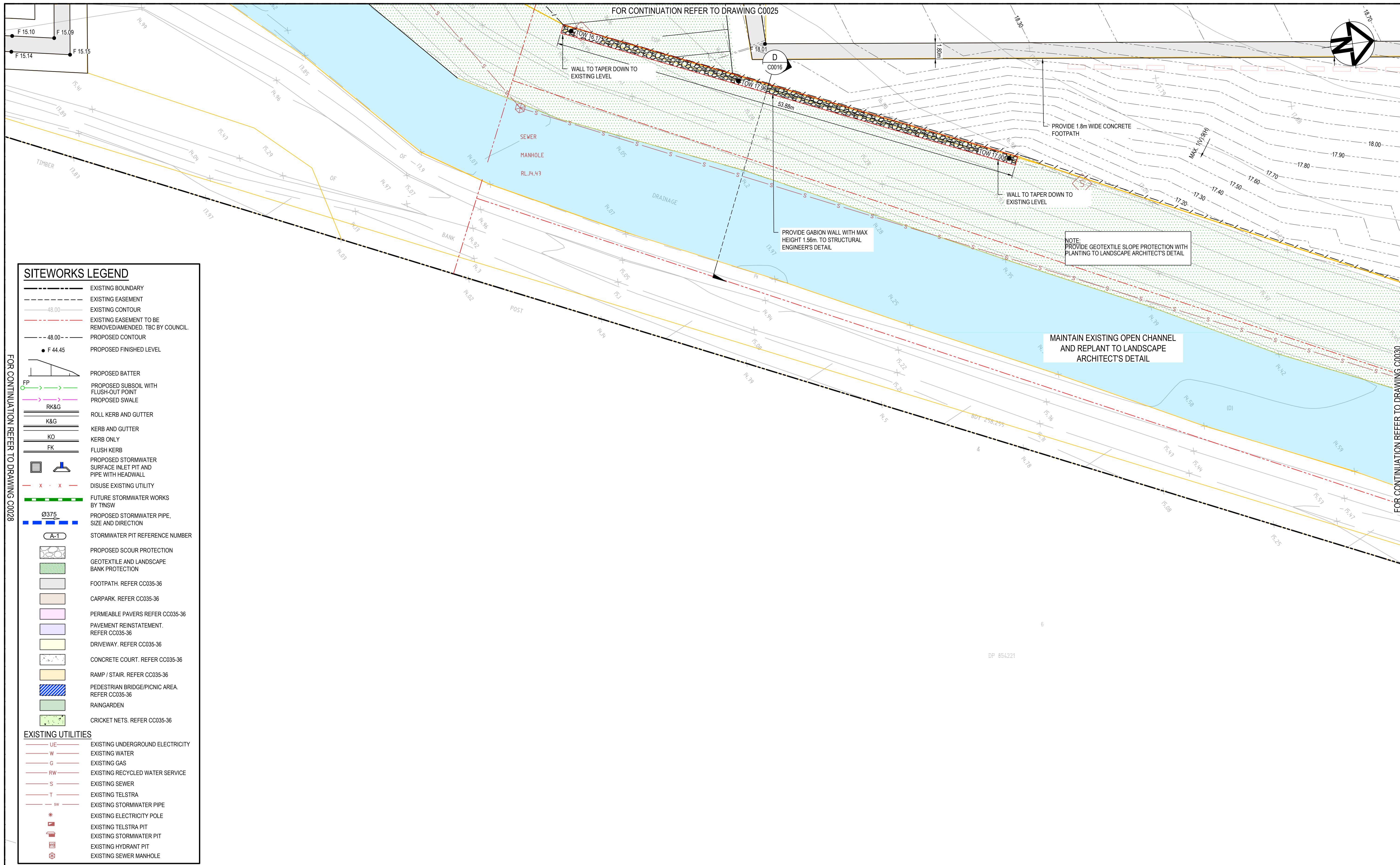
**SITWORKS AND STORMWATER  
DRAINAGE PLAN  
SHEET 9**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0028</b>	Issue
		D



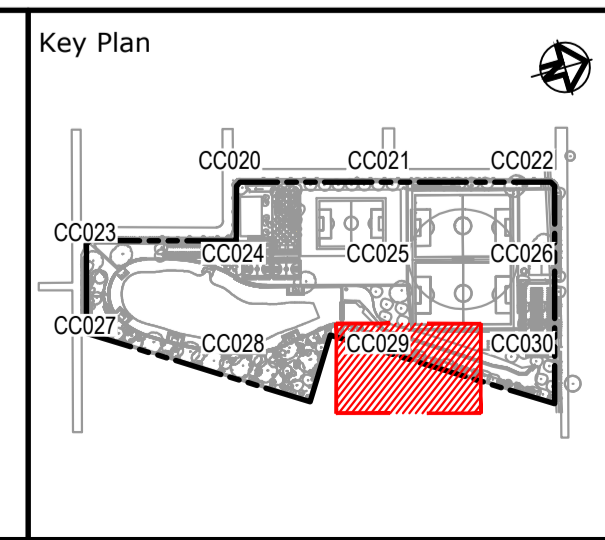
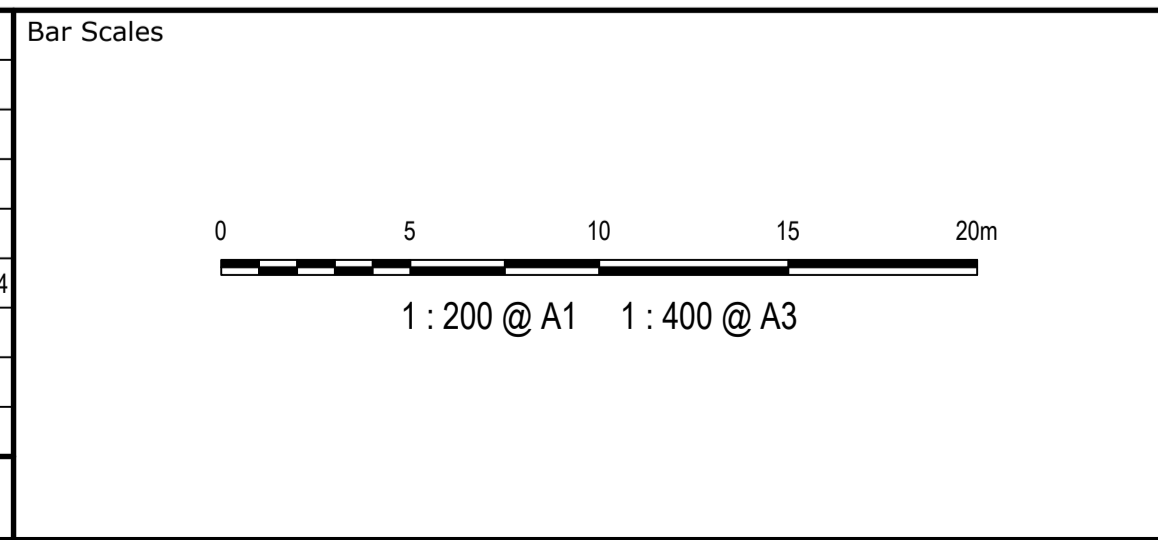


SITEWORKS LEGEND	
	EXISTING BOUNDARY
	EXISTING EASEMENT
	EXISTING CONTOUR
	EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
	PROPOSED CONTOUR
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER
	PROPOSED SUBSOIL WITH FLUSH-OUT POINT
	PROPOSED SWALE
	ROLL KERB AND GUTTER
	KERB AND GUTTER
	KERB ONLY
	FLUSH KERB
	PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
	DISUSE EXISTING UTILITY
	FUTURE STORMWATER WORKS BY TNSW
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	STORMWATER PIT REFERENCE NUMBER
	PROPOSED SCOUR PROTECTION
	GEOTEXTILE AND LANDSCAPE BANK PROTECTION
	FOOTPATH. REFER CC035-36
	CARPARK. REFER CC035-36
	PERMEABLE PAVERS REFER CC035-36
	PAVEMENT REINSTATEMENT. REFER CC035-36
	DRIVEWAY. REFER CC035-36
	CONCRETE COURT. REFER CC035-36
	RAMP / STAIR. REFER CC035-36
	PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
	RAINGARDEN
	CRICKET NETS. REFER CC035-36
EXISTING UTILITIES	
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING WATER
	EXISTING GAS
	EXISTING RECYCLED WATER SERVICE
	EXISTING SEWER
	EXISTING TELSTRA
	EXISTING STORMWATER PIPE
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT
	EXISTING STORMWATER PIT
	EXISTING HYDRANT PIT
	EXISTING SEWER MANHOLE

FOR CONTINUATION REFER TO DRAWING C0028

FOR CONTINUATION REFER TO DRAWING C0030

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Scale	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

GDA2020

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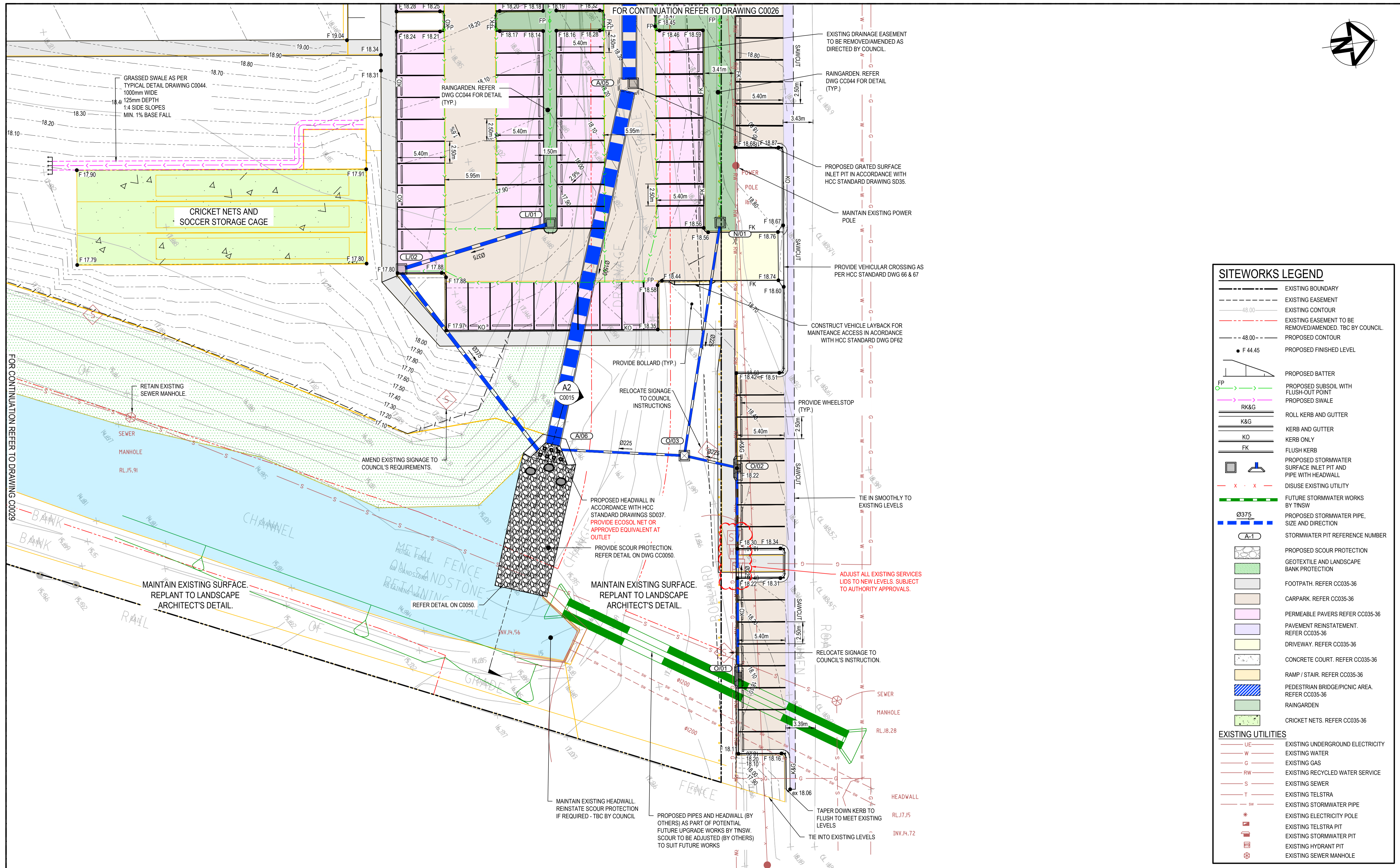
Project	FERNADELL RESERVE PITT TOWN NSW 2756
Title	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 10

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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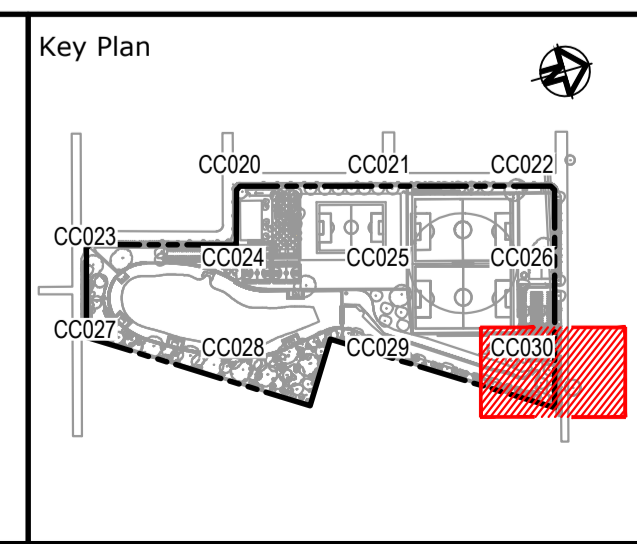
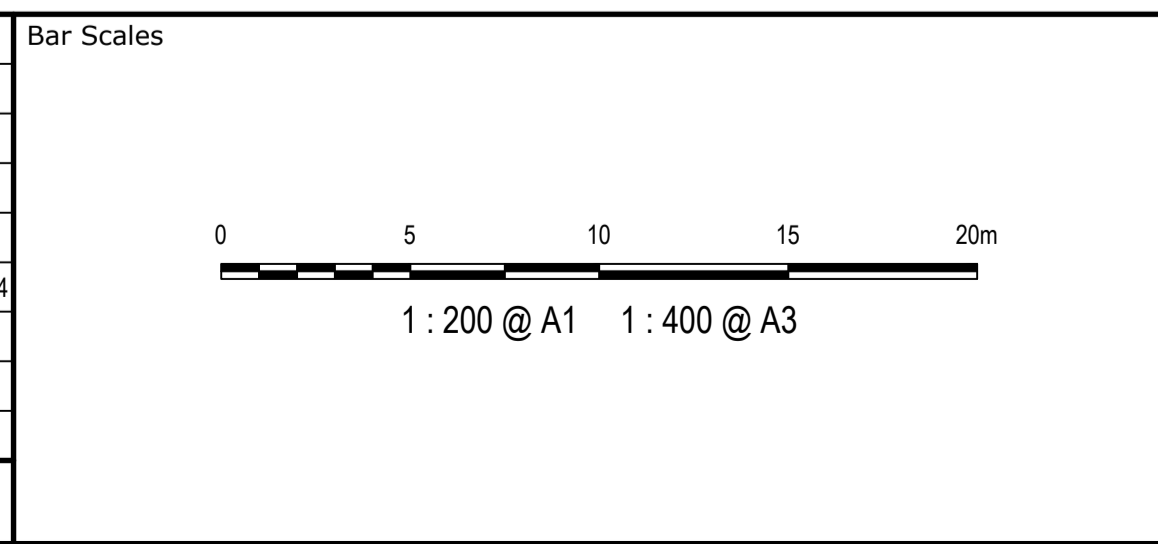
Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0029	Issue
		D





SITWORKS LEGEND	
	EXISTING BOUNDARY
	EXISTING EASEMENT
	EXISTING CONTOUR
	EXISTING EASEMENT TO BE REMOVED/AMENDED. TBC BY COUNCIL.
	PROPOSED CONTOUR
	PROPOSED FINISHED LEVEL
	PROPOSED BATTER
	PROPOSED SUBSOIL WITH FLUSH-OUT POINT
	PROPOSED SWALE
	ROLL KERB AND GUTTER
	K&G
	K&G
	K&G
	FLUSH KERB
	PROPOSED STORMWATER SURFACE INLET PIT AND PIPE WITH HEADWALL
	DISUSE EXISTING UTILITY
	FUTURE STORMWATER WORKS BY TNSW
	PROPOSED STORMWATER PIPE, SIZE AND DIRECTION
	STORMWATER PIT REFERENCE NUMBER
	PROPOSED SCOUR PROTECTION
	GEOTEXTILE AND LANDSCAPE BANK PROTECTION
	FOOTPATH. REFER CC035-36
	CARPARK. REFER CC035-36
	PERMEABLE PAVERS REFER CC035-36
	PAVEMENT REINSTATEMENT. REFER CC035-36
	DRIVEWAY. REFER CC035-36
	CONCRETE COURT. REFER CC035-36
	RAMP / STAIR. REFER CC035-36
	PEDESTRIAN BRIDGE/PICNIC AREA. REFER CC035-36
	RAINGARDEN
	CRICKET NETS. REFER CC035-36
EXISTING UTILITIES	
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING WATER
	EXISTING GAS
	EXISTING RECYCLED WATER SERVICE
	EXISTING SEWER
	EXISTING TELSTRA
	EXISTING STORMWATER PIPE
	EXISTING ELECTRICITY POLE
	EXISTING TELSTRA PIT
	EXISTING STORMWATER PIT
	EXISTING HYDRANT PIT
	EXISTING SEWER MANHOLE

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

**SITWORKS AND STORMWATER  
DRAINAGE PLAN  
SHEET 11**

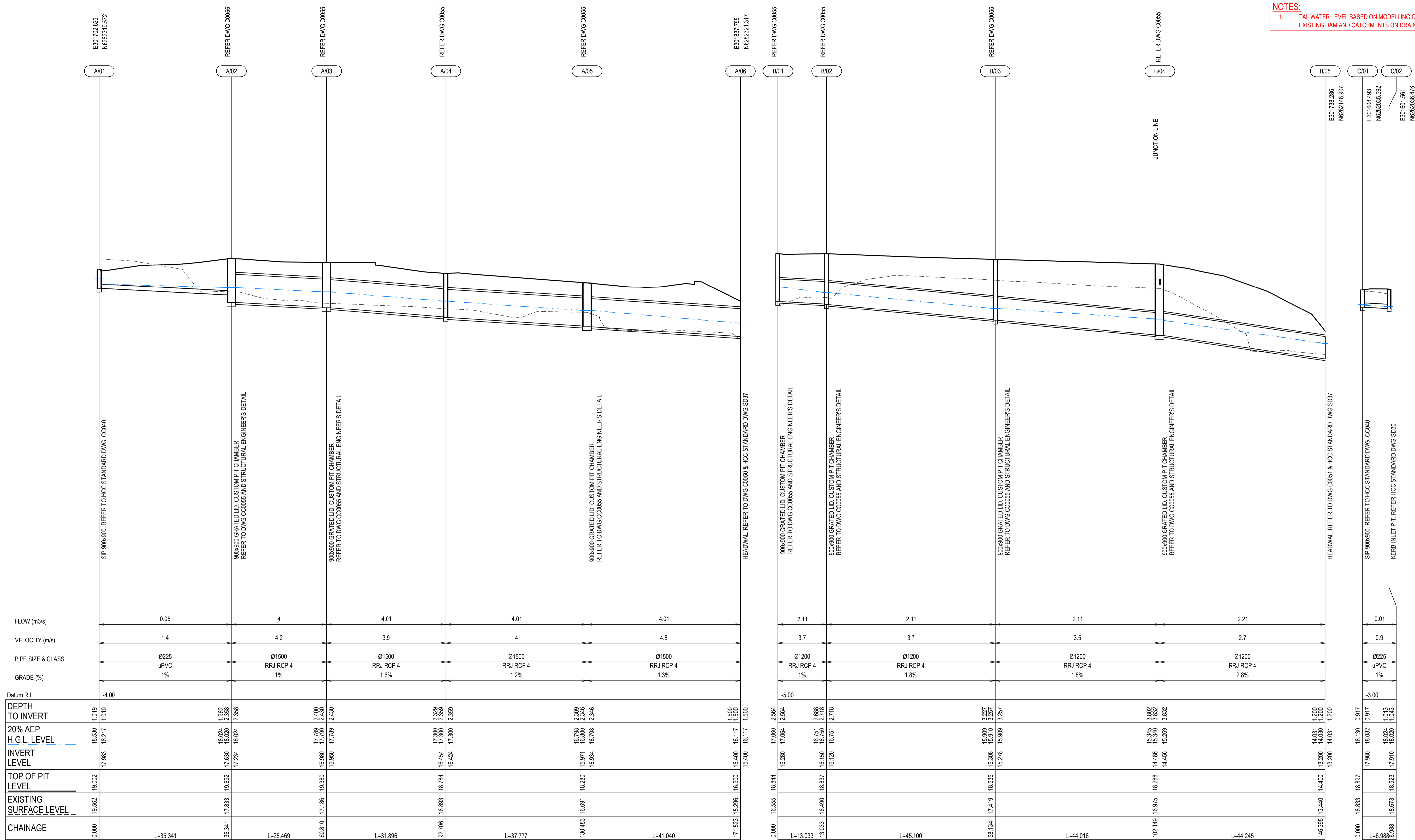
Civil Engineers and Project Managers

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North Sydney NSW 2060  
ABN 96 130 882 405  
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Fax: 02 9923 1055  
www.atl.net.au  
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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0030</b>	Issue
		<b>D</b>



**NOTES:**  
1. TAILWATER LEVEL BASED ON MODELLING OF EXISTING DAM AND CATCHMENTS ON DRAINS.

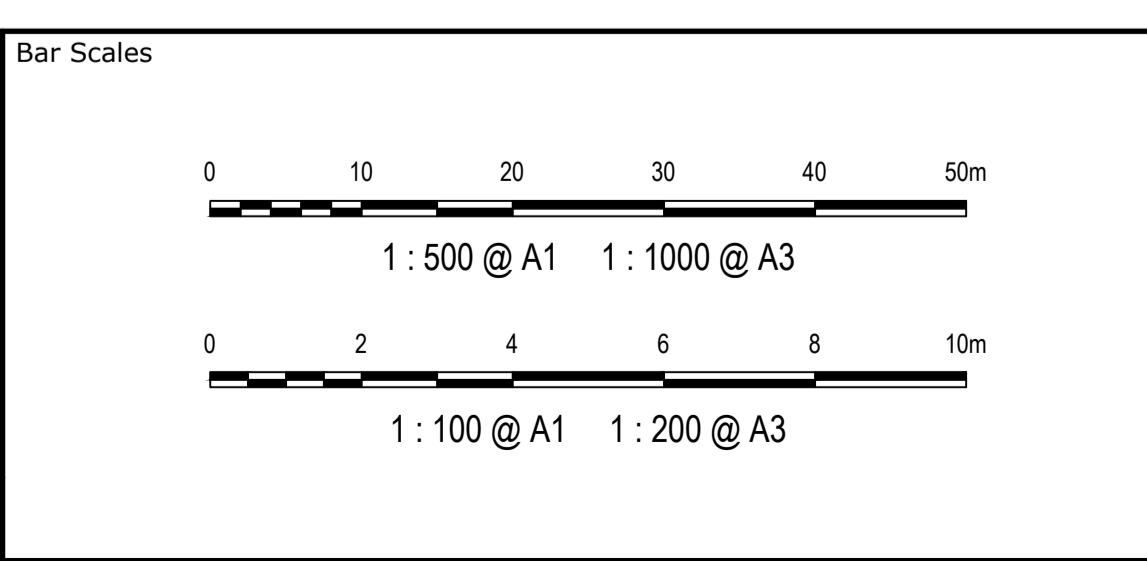


LINE A

LINE B

LINE C

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Key Plan



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

Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**STORMWATER  
DRAINAGE LONGSECTIONS  
SHEET 1**

Civil Engineers and Project Managers

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www.atl.net.au  
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Status  
**FOR TENDER  
NOT TO BE USED FOR CONSTRUCTION**

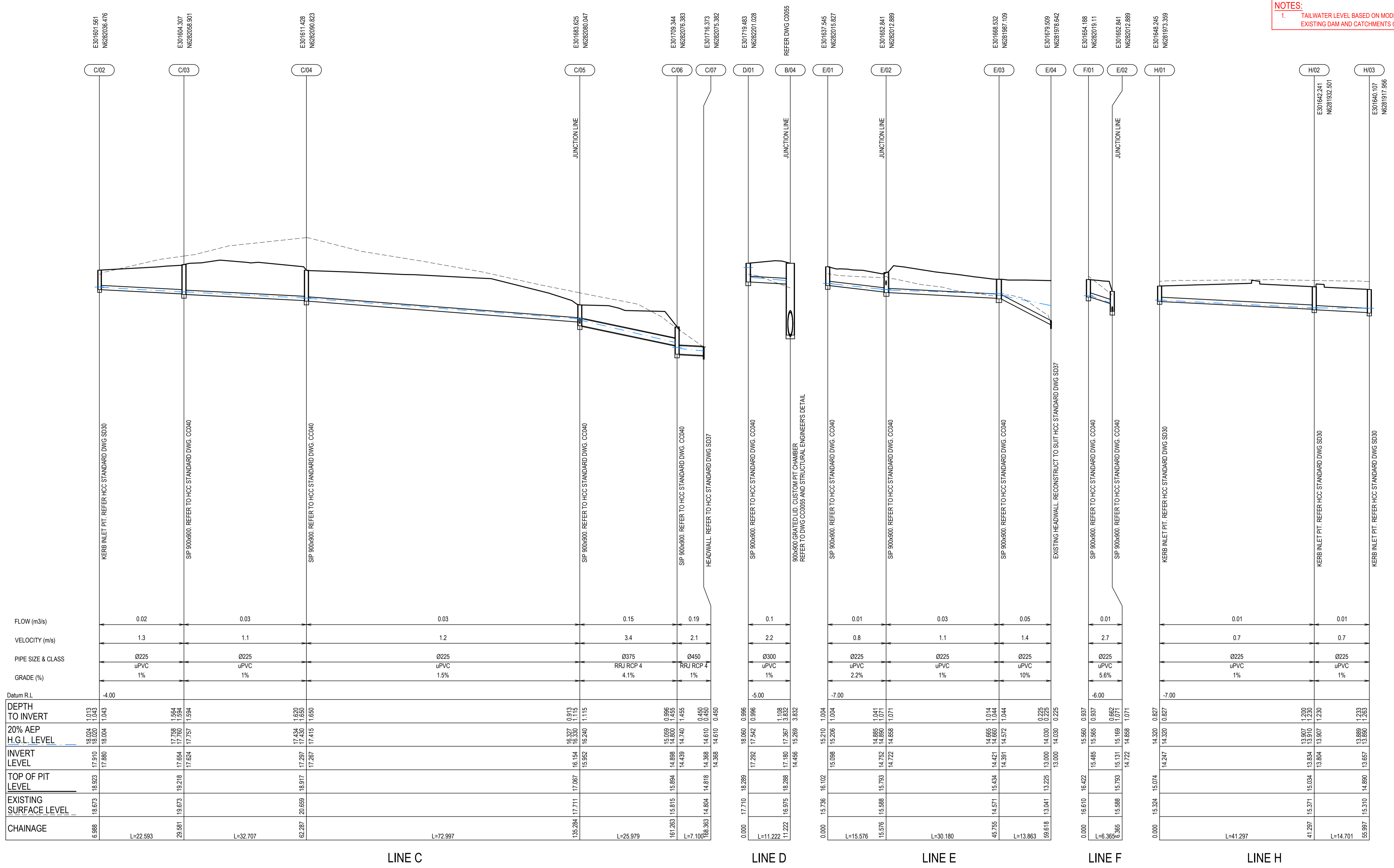
Project - Drawing No.  
**23-1123-C0031**

Issue  
**A1  
C**

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**NOTES:**  
 1. TAILWATER LEVEL BASED ON MODELLING OF EXISTING DAM AND CATCHMENTS ON DRAINS.



LINE C

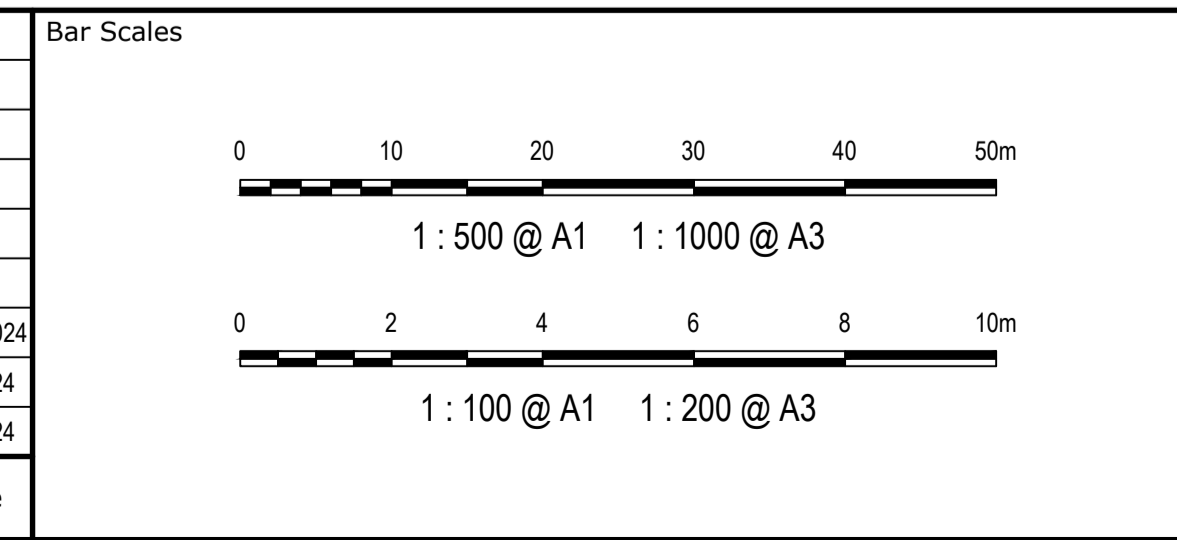
LINE D

LINE E

LINE F

LINE H

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Key Plan



AS SHOWN	Drawn	JS
Grid MGA2020	Designed	SM
Height Datum AHD	Checked	SM
	Approved	AT

Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**STORMWATER  
 DRAINAGE LONGSECTIONS  
 SHEET 2**

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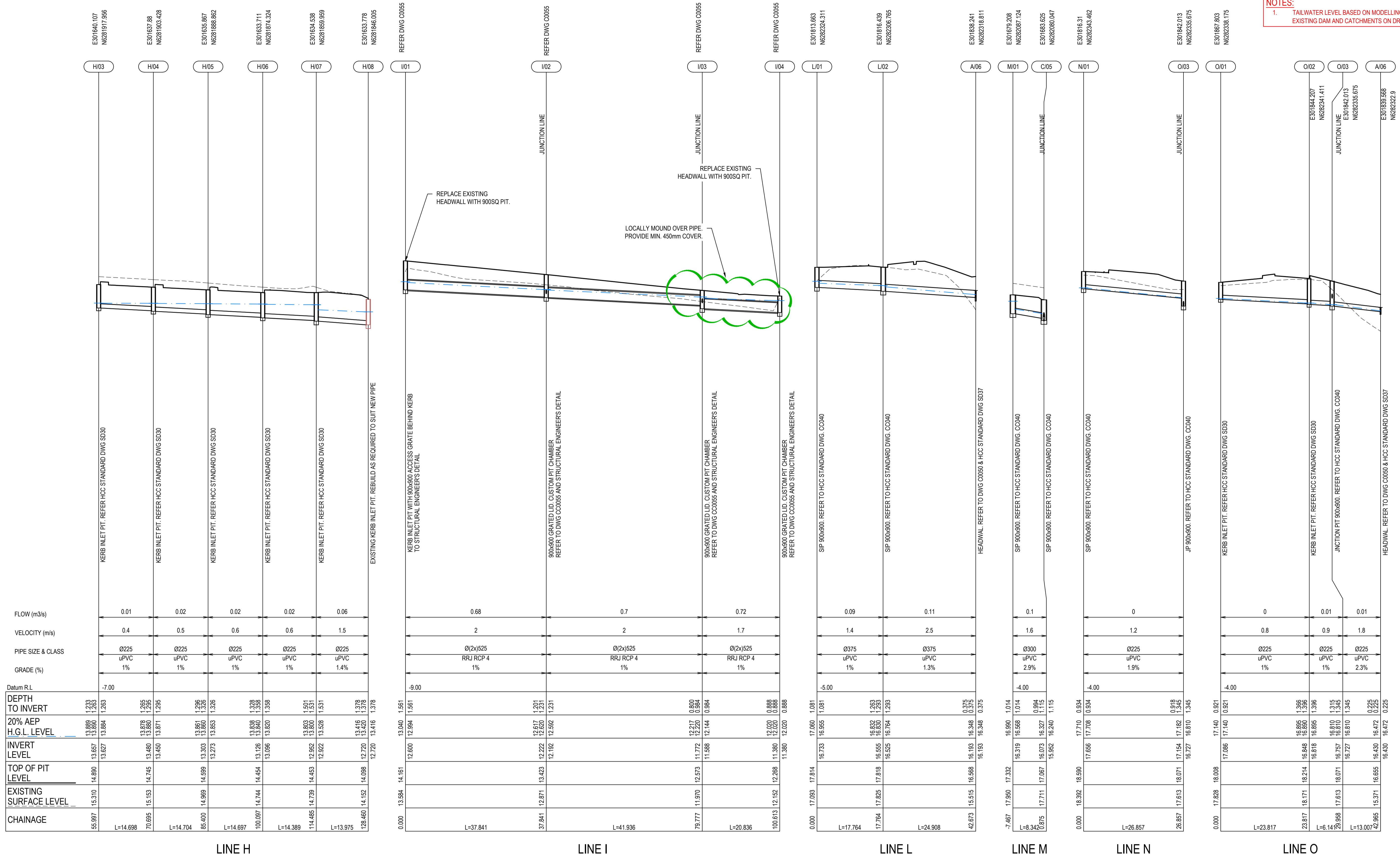
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 NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1123-C0032**

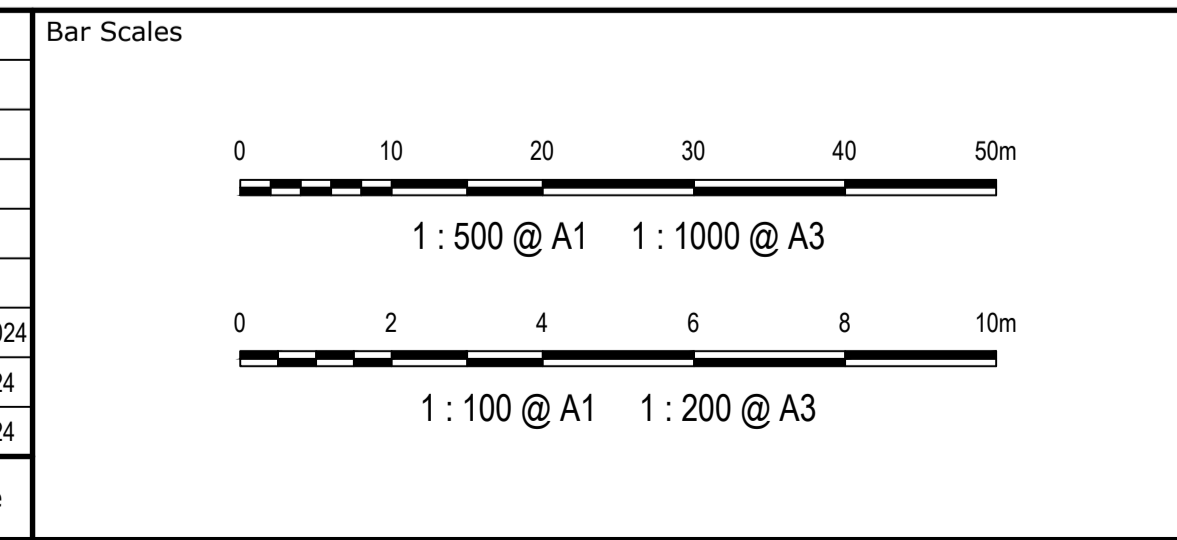
Issue  
**C**



**NOTES:**  
1. TAILWATER LEVEL BASED ON MODELLING OF EXISTING DAM AND CATCHMENTS ON DRAINS.



Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Key Plan



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

Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**STORMWATER  
DRAINAGE LONGSECTIONS  
SHEET 3**

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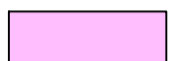

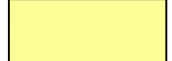





Status  
**FOR TENDER  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1123-C0033**

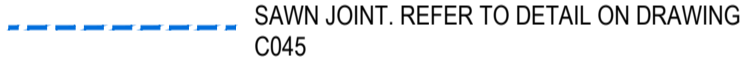
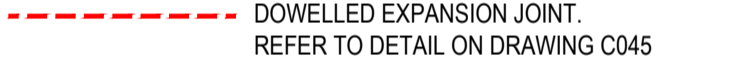
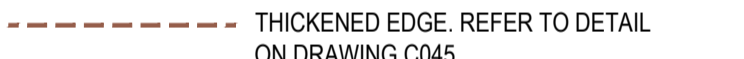
Issue  
**C**



**PAVEMENT LEGEND**

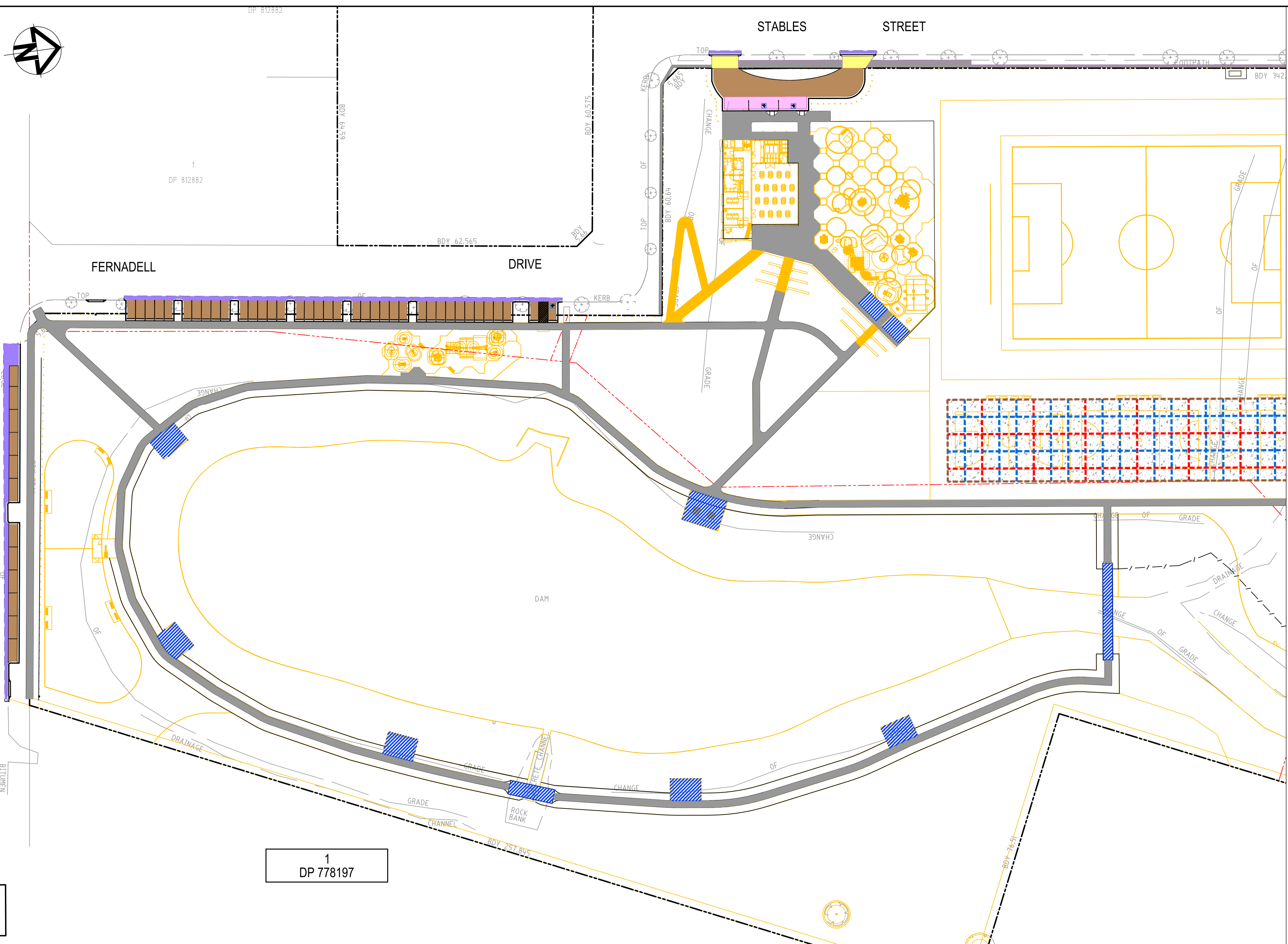
-  **FOOTPATH PAVEMENT**  
100mm THICK CONCRETE (F72 WITH 25mm COVER)  
ON 100mm DGB20  
ON COMPACTED SUBGRADE
-  **CARPARK PAVEMENT**  
50mm AC10 ON  
7mm PRIMER SEAL ON  
150mm DGB20 ON  
250mm DGS40 ON  
SUBGRADE MIN. CBR3
-  **CARPARK PAVEMENT - PERMEABLE PAVERS**  
80mm THICK PERMEABLE PAVER (HERRINGBONE  
PATTERN WITH SOLDIER COURSE) ON  
30mm THICK 2-5mm NO FINES BASALT  
AGGREGATE ON  
300mm THICK OPEN GRADED BASECOURSE  
(WITH 2x100mm DIAMETER SUBSOIL  
AT EVEN SPACING DIRECTED TO CLOSEST PIT)  
ON IMPERMEABLE LINER ON  
EXISTING COMPACTED SUBGRADE MIN. CBR 4  
(NOTE: DESIGN TO BE SIGNED OFF BY SUPPLIER  
DURING TDNER)
-  **PAVEMENT REINSTATEMENT**  
50mm AC10 ON  
100mm DGB20 ON  
EXISTING ROAD SUBBASE
-  **DRIVEWAY PAVEMENT**  
150mm THICK CONCRETE (32MPa, F72 WITH  
40mm TOP COVER) ON  
MIN. 150mm THICK SANDSTONE SUB-BASE ON  
COMPACTED SUBGRADE MIN. CBR3
-  **BASKETBALL COURT PAVEMENT**  
150mm THICK CONCRETE (25MPa, SL82 MESH,  
BROOM FINISH, COLOUR TO ARCHITECT'S  
DETAILS) ON  
COMPACTED SUBGRADE
-  **RAMP/STAIR PAVEMENT**  
REFER LANDSCAPE ARCHITECT'S DETAIL
-  **PEDESTRIAN BRIDGES / SUSPENDED SLABS**  
REFER TO DETAIL BY STRUCTURAL  
ENGINEER
-  **RAINGARDEN**  
150mm EXTENDED DETENTION DEPTH  
500mm THICK FILTER MEDIA LAYER  
100mm THICK DRAINAGE LAYER A  
200mm THICK DRAINAGE LAYER B  
(REFER DWG C0044 FOR DETAILS)
-  **CRICKET NETS - ARTIFICIAL TURF ON SLAB**  
150mm THICK CONCRETE (25MPa, SL82 MESH,  
BROOM FINISH, TURF TO ARCHITECT'S DETAILS)  
ON  
COMPACTED SUBGRADE

**JOINTING LEGEND**

-  SAWN JOINT. REFER TO DETAIL ON DRAWING  
C045
-  DOWELLED EXPANSION JOINT.  
REFER TO DETAIL ON DRAWING C045
-  THICKENED EDGE. REFER TO DETAIL  
ON DRAWING C045

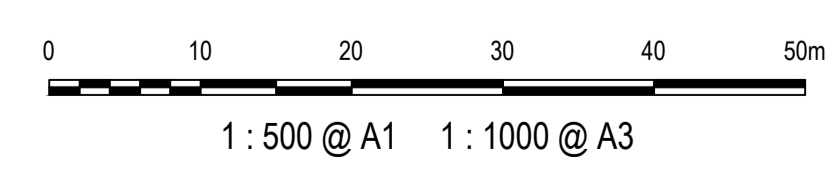
**NOTE**

1. DIMENSIONS AND PAVEMENT OF THE BASKETBALL / NETBALL COURTS AND CRICKET NETS IS SUBJECT TO SPECIALIST SPORTS FIELD DESIGN AND CONSTRUCT CONTRACTOR



1  
DP 778197

Bar Scales



Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24

Client



Scales

1:500	Drawn	JS
	Designed	SM
Grid MGA2020	Checked	SM
Height Datum AHD	Approved	AT

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Project

FERNADELL RESERVE  
PITT TOWN  
NSW 2756

Title

PAVEMENT PLAN  
SHEET 1

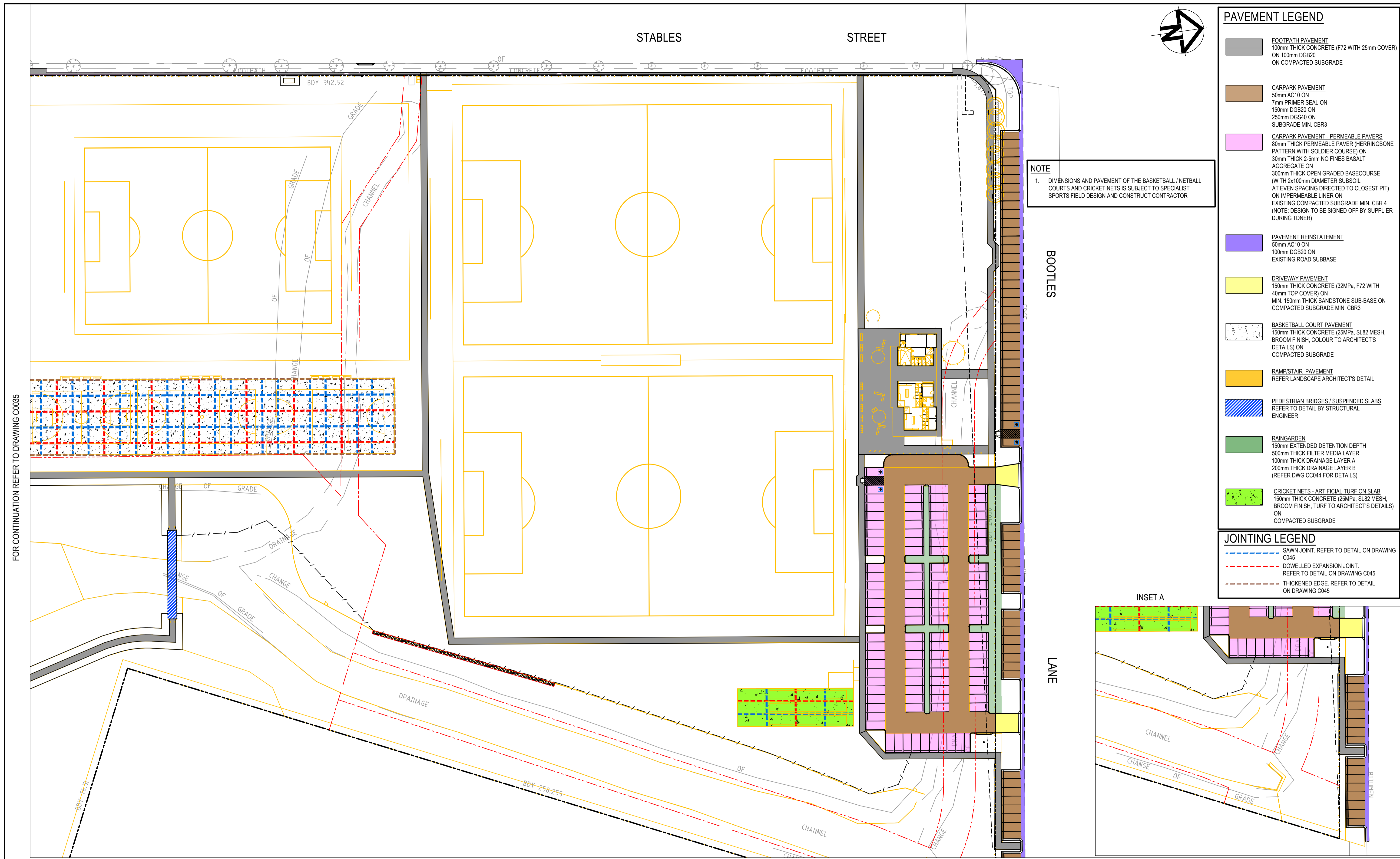
Civil Engineers and Project Managers

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Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0035	Issue
		C

FOR CONTINUATION REFER TO DRAWING C0036

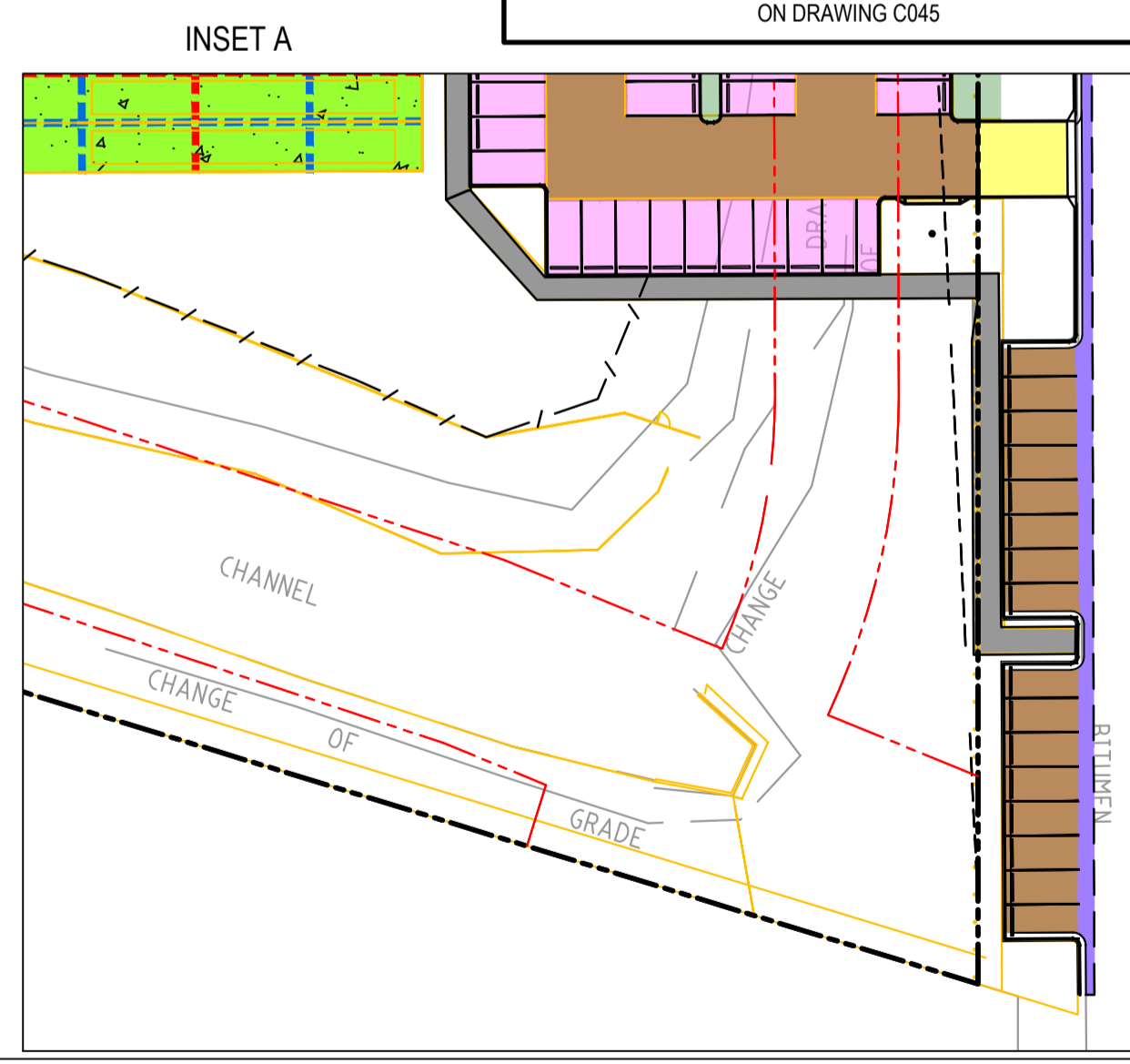




PAVEMENT LEGEND	
	FOOTPATH PAVEMENT 100mm THICK CONCRETE (F72 WITH 25mm COVER) ON 100mm DGB20 ON COMPACTED SUBGRADE
	CARPARK PAVEMENT 50mm AC10 ON 7mm PRIMER SEAL ON 150mm DGB20 ON 250mm DGS40 ON SUBGRADE MIN. CBR3
	CARPARK PAVEMENT - PERMEABLE PAVERS 80mm THICK PERMEABLE PAVES (HERRINGBONE PATTERN WITH SOLDIER COURSE) ON 30mm THICK 2.5mm NO FINES BASALT AGGREGATE ON 300mm THICK OPEN GRADED BASECOURSE (WITH 2x100mm DIAMETER SUBSOIL AT EVEN SPACING DIRECTED TO CLOSEST PIT) ON IMPERMEABLE LINER ON EXISTING COMPACTED SUBGRADE MIN. CBR 4 (NOTE: DESIGN TO BE SIGNED OFF BY SUPPLIER DURING TDNER)
	PAVEMENT REINSTATEMENT 50mm AC10 ON 100mm DGB20 ON EXISTING ROAD SUBBASE
	DRIVEWAY PAVEMENT 150mm THICK CONCRETE (32MPa, F72 WITH 40mm TOP COVER) ON MIN. 150mm THICK SANDSTONE SUB-BASE ON COMPACTED SUBGRADE MIN. CBR3
	BASKETBALL COURT PAVEMENT 150mm THICK CONCRETE (25MPa, SL82 MESH, BROOM FINISH, COLOUR TO ARCHITECT'S DETAILS) ON COMPACTED SUBGRADE
	RAMP/STAIR PAVEMENT REFER LANDSCAPE ARCHITECT'S DETAIL
	PEDESTRIAN BRIDGES / SUSPENDED SLABS REFER TO DETAIL BY STRUCTURAL ENGINEER
	RAINGARDEN 150mm EXTENDED DETENTION DEPTH 500mm THICK FILTER MEDIA LAYER 100mm THICK DRAINAGE LAYER A 200mm THICK DRAINAGE LAYER B (REFER DWG C0044 FOR DETAILS)
	CRICKET NETS - ARTIFICIAL TURF ON SLAB 150mm THICK CONCRETE (25MPa, SL82 MESH, BROOM FINISH, TURF TO ARCHITECT'S DETAILS) ON COMPACTED SUBGRADE

JOINTING LEGEND	
	SAWN JOINT. REFER TO DETAIL ON DRAWING C045
	DOWELLED EXPANSION JOINT. REFER TO DETAIL ON DRAWING C045
	THICKENED EDGE. REFER TO DETAIL ON DRAWING C045

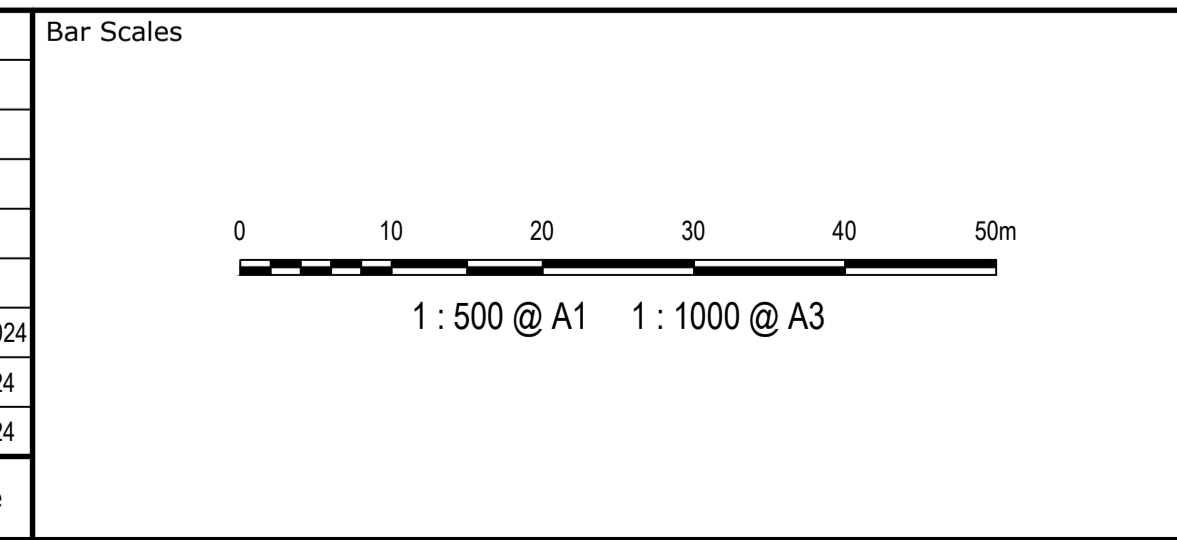
**NOTE**  
1. DIMENSIONS AND PAVEMENT OF THE BASKETBALL / NETBALL  
COURTS AND CRICKET NETS IS SUBJECT TO SPECIALIST  
SPORTS FIELD DESIGN AND CONSTRUCT CONTRACTOR



FOR CONTINUATION REFER TO DRAWING C0035

REFER TO INSET A

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Client



Scales	1:500	Drawn	JS
		Designed	SM
	Grid	MGA2020	Checked
Height Datum	AHD	Approved	AT

Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**PAVEMENT PLAN  
SHEET 2**

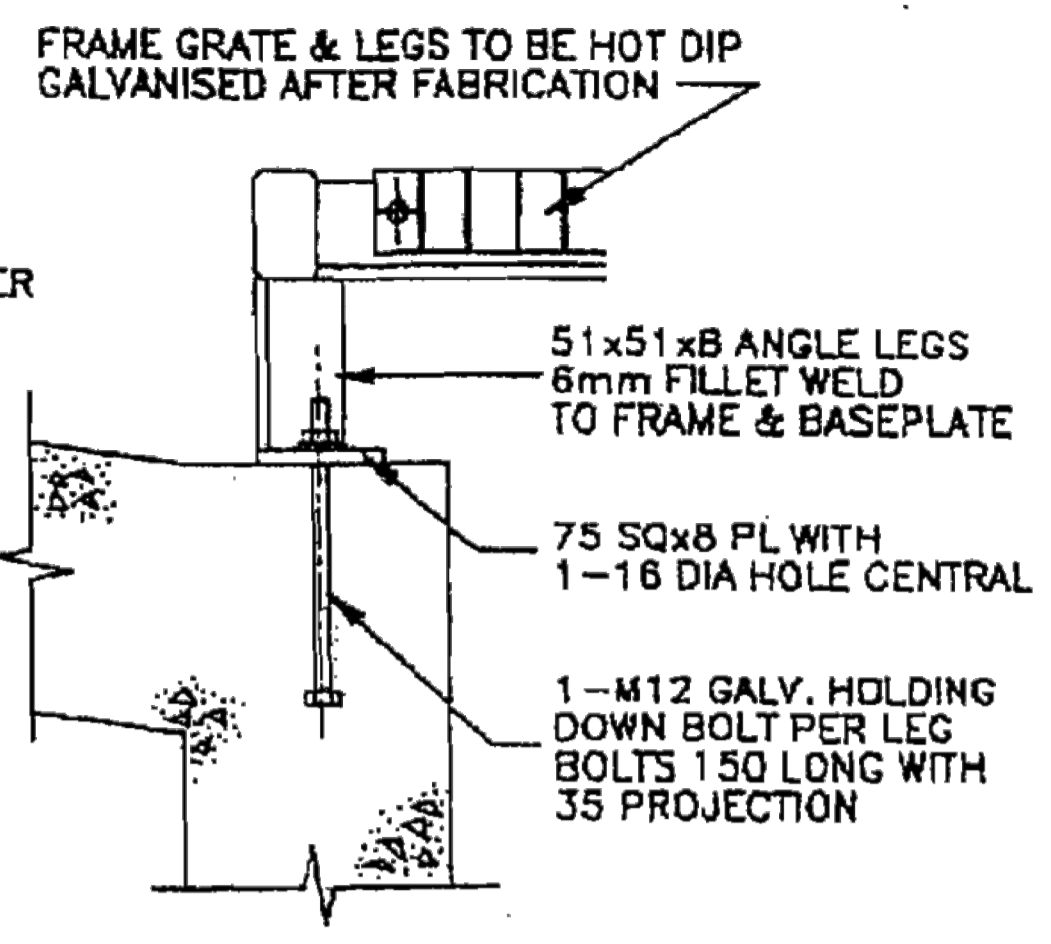
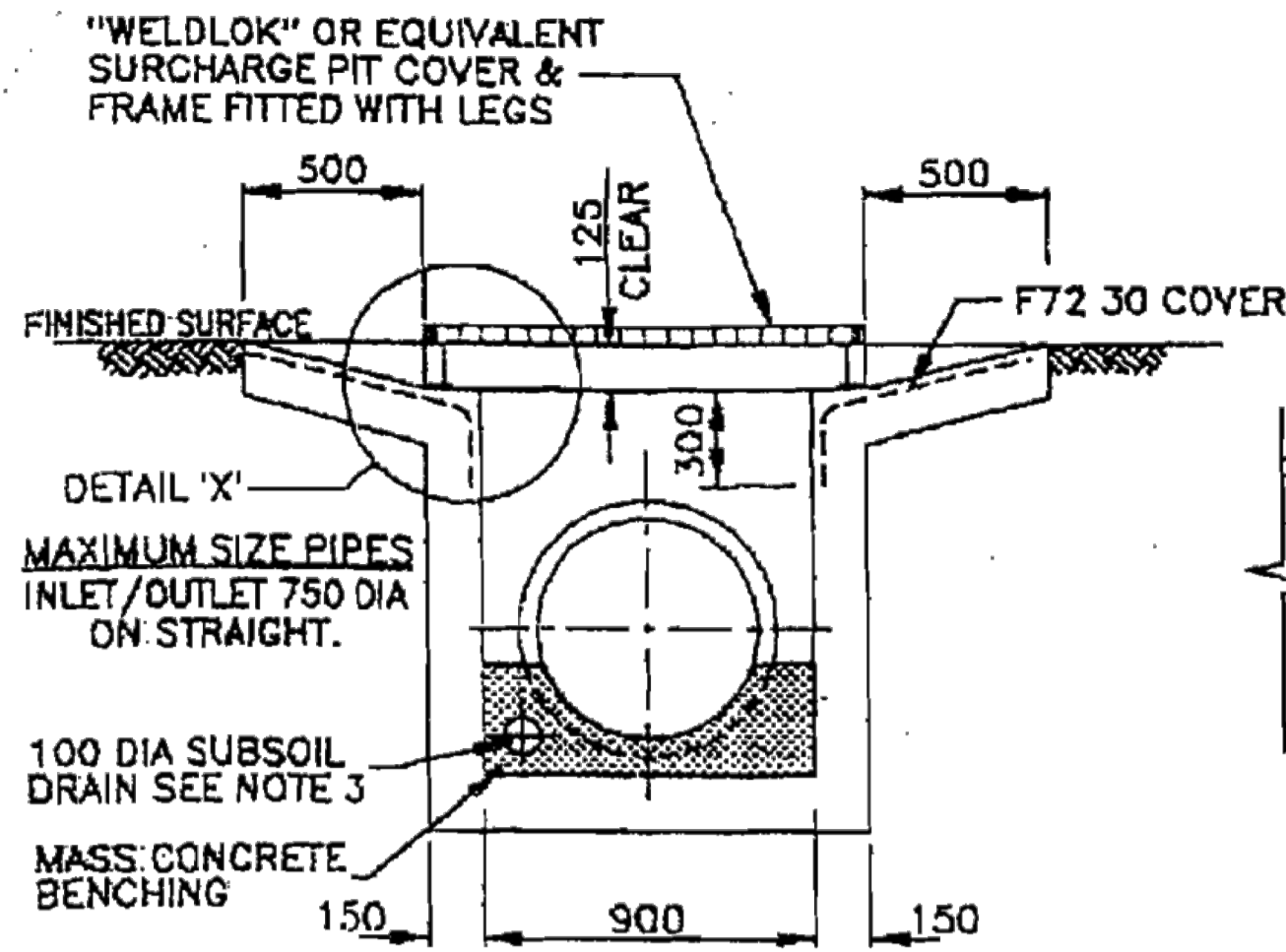
Civil Engineers and Project Managers

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www.atl.net.au  
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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	23-1123-C0036	Issue
		C

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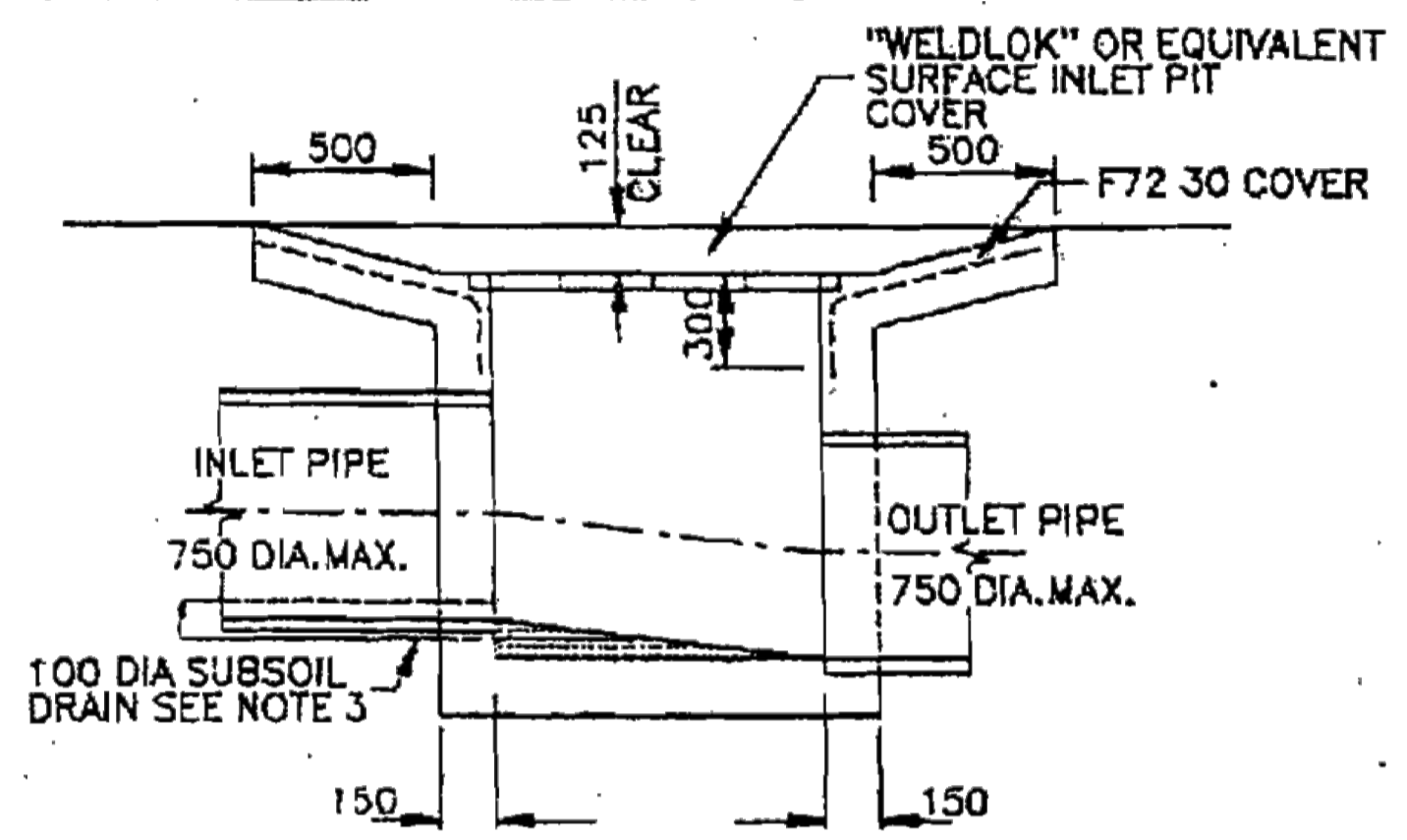


SECTION A-A  
INLET AND SURCHARGE PIT TYPE A

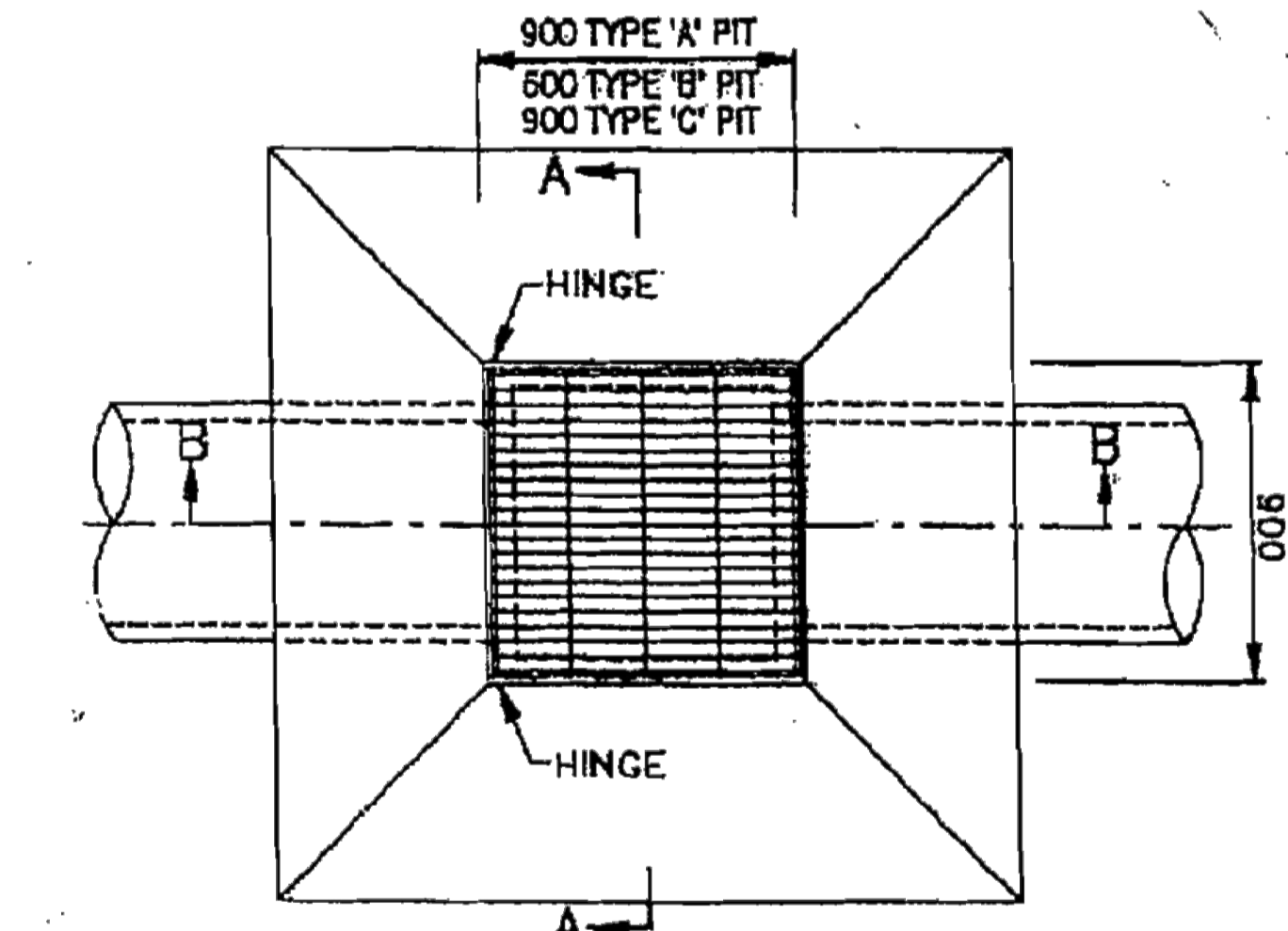
DETAIL 'X'

SURCHARGE PITS SIZES TABLE		
PIT	OPENING SIZE	GRATE TYPE
TYPE A	900x900	P.C. 9090 B
TYPE B	600x900	P.C. 6090 A
TYPE C	900x900	P.C. 9090 B

\* TYPE A GRATE TO BE FITTED WITH LEGS AS PER DETAIL 'X'



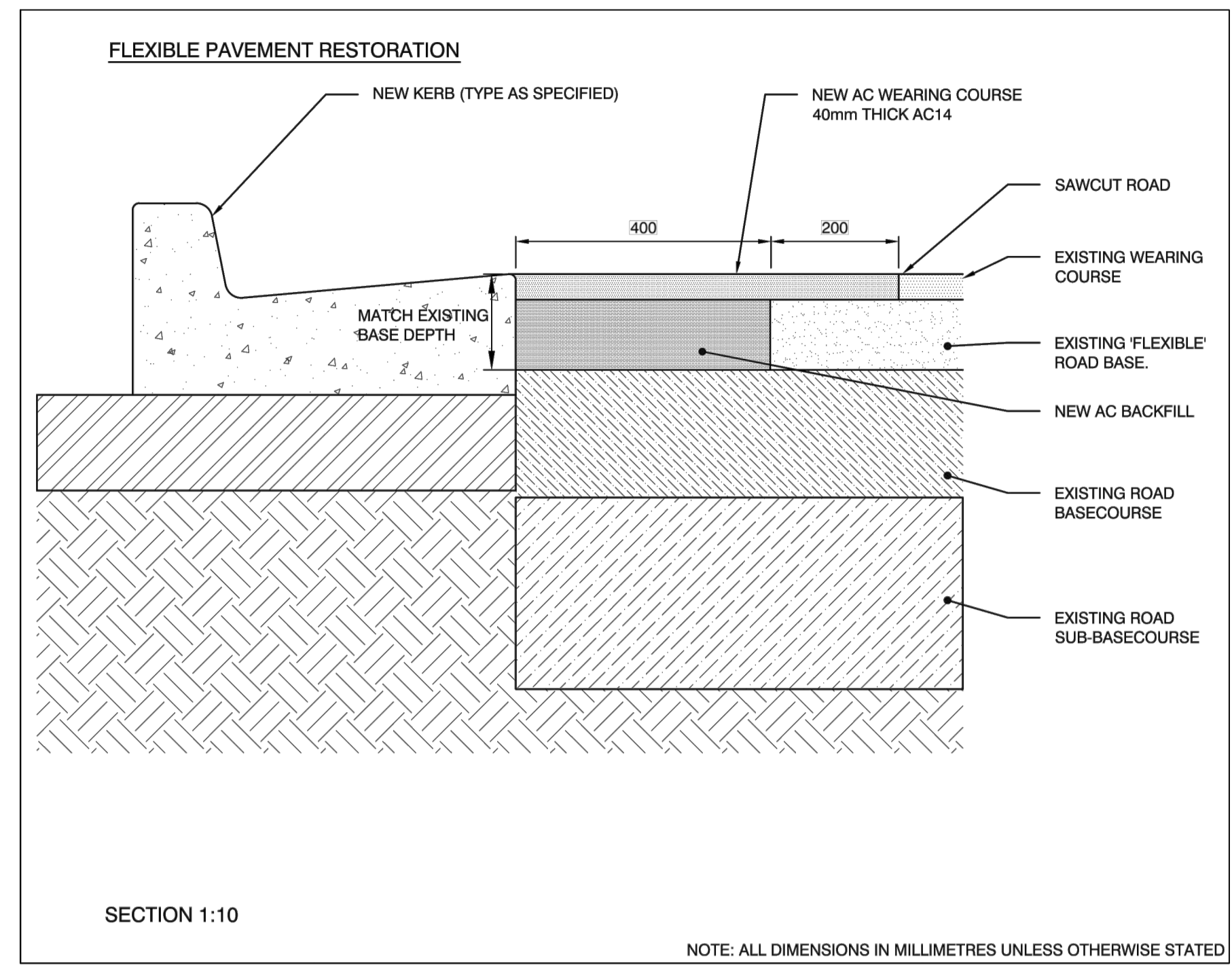
SECTION B-B  
SURCHARGE PIT TYPES B & C



PLAN SURCHARGE PITS TYPE A, B & C

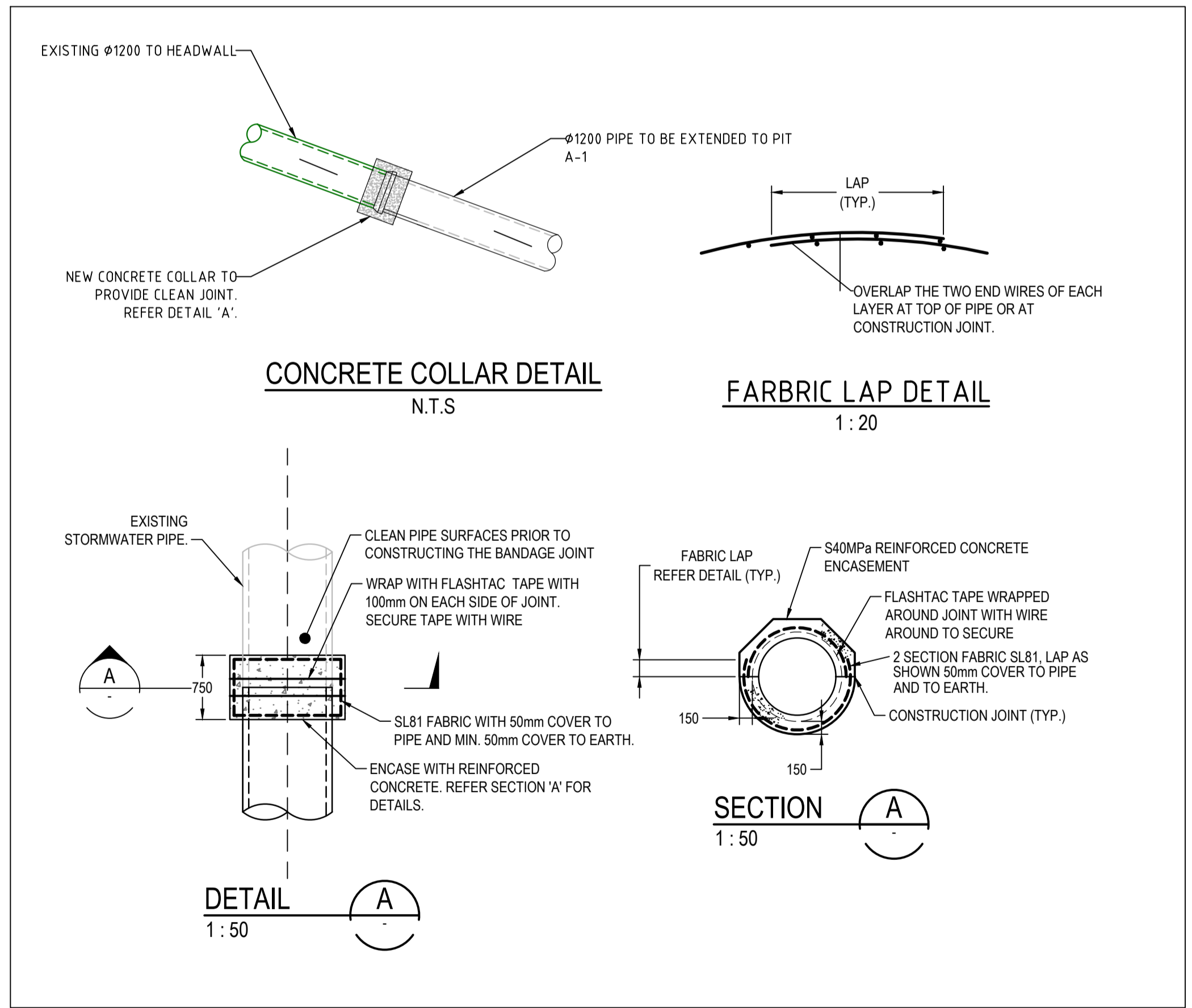
**NOTES:**

1. COMPRESSIVE STRENGTH (F<sub>c</sub>) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 20 MPa AT 28 DAYS.
2. TOP OF BENCHING SHALL BE 1/2 OF OUTLET PIPE DIAMETER.
3. 100 DIA. SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK SHALL BE PROVIDED ADJACENT TO INLET PIPES.
4. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
5. PIT GRATE SHALL BE "WELDLOK" GULLY GRATE GG 78-51 OR APPROVED EQUIVALENT. (SKRITED)
6. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN Lintel AND OPEN GRATE (REFER TO INSTALLATION TOLERANCE)
7. WHERE PITS ARE PROVIDED IN PEDESTRIAN PATHWAYS THE GRATE SHALL BE SUPPLIED WITH A PEDESTRIAN SAFE MESH.
8. ALL DIMENSIONS ARE IN MILLIMETRES.



SECTION 1:10

NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED



CONCRETE COLLAR DETAIL  
N.T.S

FABRIC LAP DETAIL  
1:20

DETAIL A  
1:50

SECTION A  
1:50

Hawkesbury City Council



STANDARD GRATED SURFACE INLET PITS

SCALE : NTS

DRAWING No. : SD 31

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23

Bar Scales

Client



Grid	Height Datum
MGA2020	AHD

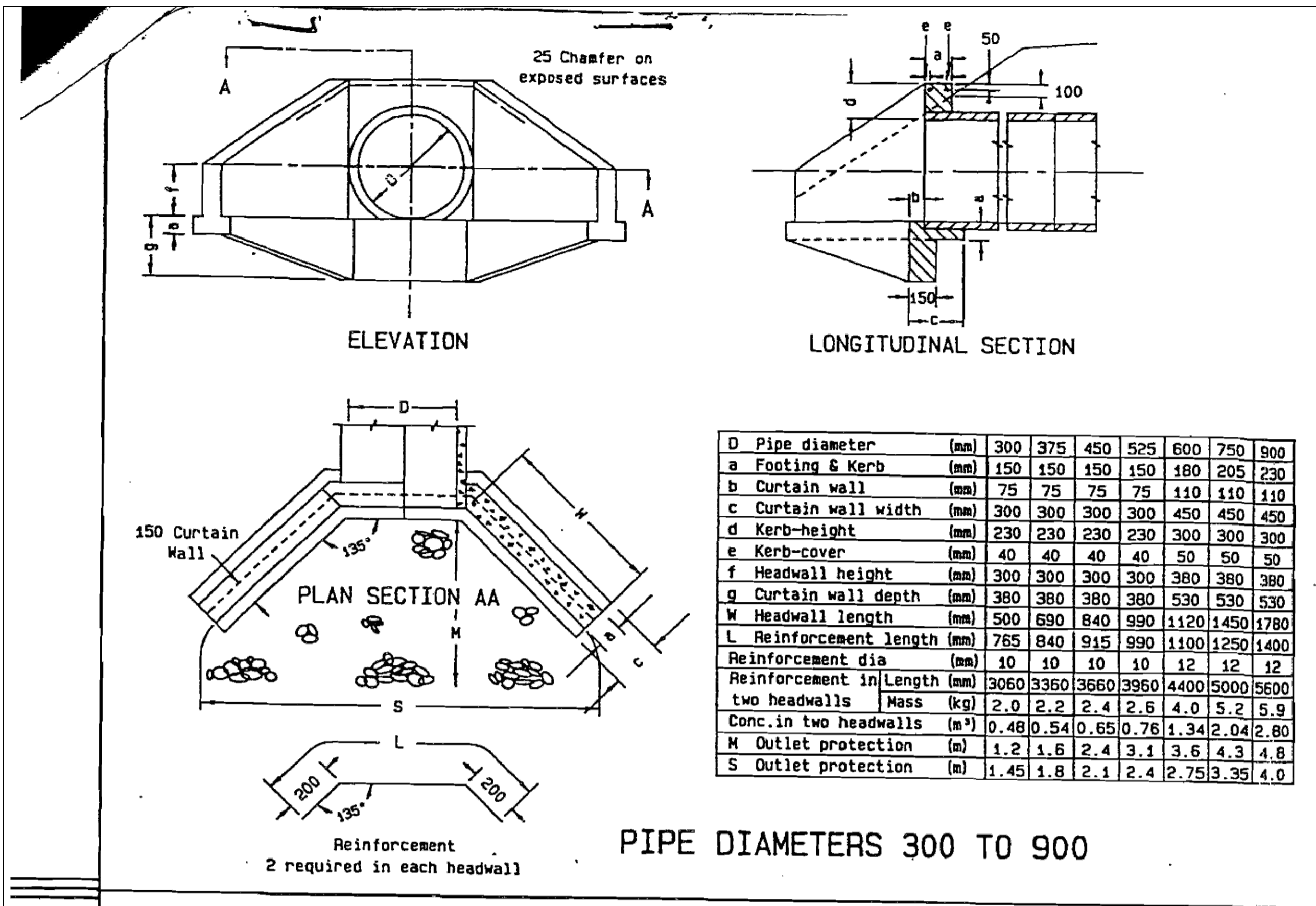
Drawn	Project
JS	FERNADELL RESERVE PITT TOWN NSW 2756
SM	
SM	
AT	

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR TENDER
Project - Drawing No.	23-1123-C0040
Issue	D

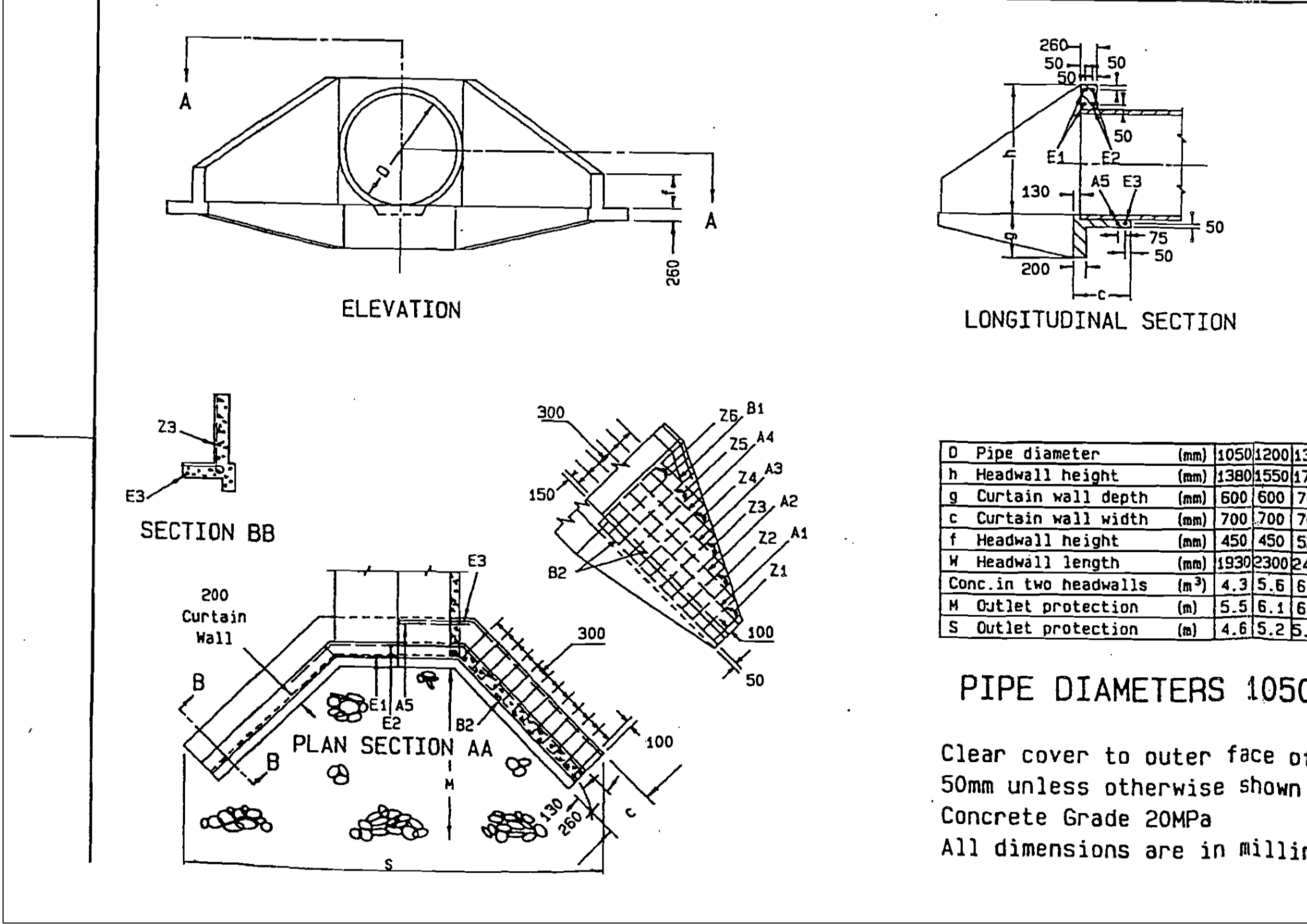
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TYPICAL DETAILS  
SHEET 1





PIPE DIAMETERS 300 TO 900



PIPE DIAMETERS 1050 TO 1800

Clear cover to outer face of reinforcement  
50mm unless otherwise shown  
Concrete Grade 20MPa  
All dimensions are in millimetres

REINFORCEMENT FOR 2 HEADWALLS

SHAPE	MARK	DIA	PIPE DIA	L1	LENGTH	NO REQ'D	TOTAL LENGTH	MASS
		mm	mm	mm	mm		m	kg
L1	A1	12	1050	1850	1850	4	7.40	6.57
			1200	2250	2250	4	9.00	7.99
			1350	2400	2400	4	9.60	8.52
			1500	2800	2800	4	11.20	9.95
			1800	3300	3300	4	13.20	11.72
	A2	12	1050	1200	1200	4	4.80	4.26
			1200	1550	1550	4	6.20	5.51
			1350	1900	1900	4	7.60	6.75
			1500	2350	2350	4	9.40	8.35
			1800	2950	2950	4	11.80	10.48
A3	12	1350	1250	1250	4	5.00	4.44	
		1500	1700	1700	4	6.80	6.04	
		1800	2350	2350	4	9.40	8.35	
A4	12	1800	1750	1750	4	7.00	6.22	
		1350	1825	1825	2	3.65	3.24	
A5	12	1500	1975	1975	2	3.95	3.51	
		1800	2300	2300	4	4.60	4.08	
L1	B1	12	1050	650	950	4	3.80	3.37
			1200	1000	1300	4	5.20	4.62
			1350	700	1000	4	4.00	3.55
			1500	1100	1400	4	5.60	4.97
			1800	1100	1400	4	5.60	4.97
	B2	12	1050	1950	2250	8	18.00	15.98
			1200	2350	2650	8	21.20	18.83
			1350	2525	2825	8	22.60	20.08
			1500	2850	3150	8	25.20	22.38
			1800	3450	3750	8	30.00	26.64
L1	E1	12	1050	1200	2700	4	10.80	9.59
			1200	1350	2850	4	11.40	10.12
			1350	1575	3075	4	12.30	10.92
			1500	1750	3250	4	13.00	11.54
			1800	2100	3600	4	14.40	12.79
	E2	12	1050	1330	2830	4	11.32	10.05
			1200	1470	2970	4	11.88	10.55
			1350	1675	3175	4	12.70	11.28
			1500	1800	3300	4	13.20	11.72
			1800	2150	3650	4	14.60	12.96
E3	12	1050	1600	5800	2	11.60	10.30	
		1200	1750	6550	2	13.10	11.63	
		1350	1950	7350	2	14.70	13.05	
		1500	2250	8250	2	16.50	14.65	
		1800	2600	9800	2	19.60	17.40	
L1	Z1	12	1050	580	1330	4	5.32	4.72
			1200	600	1350	8	10.80	9.59
			1350	700	1450	8	11.60	10.30
			1500	650	1650	8	13.20	11.72
			1800	650	1650	8	13.20	11.72
	Z2	12	1050	740	1490	8	11.92	10.58
			1200	900	1650	8	13.20	11.72
			1350	1000	1750	8	14.00	12.43
			1500	950	1950	8	15.60	13.85
			1800	1000	2000	8	16.00	14.21
Z3	12	1050	1010	1760	8	14.08	12.50	
		1200	1200	1950	8	15.60	13.85	
		1350	1300	2050	8	16.40	14.56	
		1500	1200	2200	8	17.60	15.63	
		1800	1250	2250	8	18.00	15.98	
Z4	12	1050	1320	2070	8	16.56	14.71	
		1200	1500	2250	8	18.00	15.98	
		1350	1575	2325	8	18.60	16.52	
		1500	1500	2500	8	20.00	17.76	
		1800	1600	2600	8	20.80	18.47	
Z5	12	1500	1800	2800	8	22.40	19.89	
		1800	1850	2850	8	22.80	20.25	
		1800	2150	3150	8	25.20	22.38	

HAWKESBURY CITY COUNCIL SD37 SHEET 10F3  
CONCRETE HEADWALLS FOR SINGLE PIPE CULVERTS

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23

Bar Scales

Client
Hawkesbury City Council

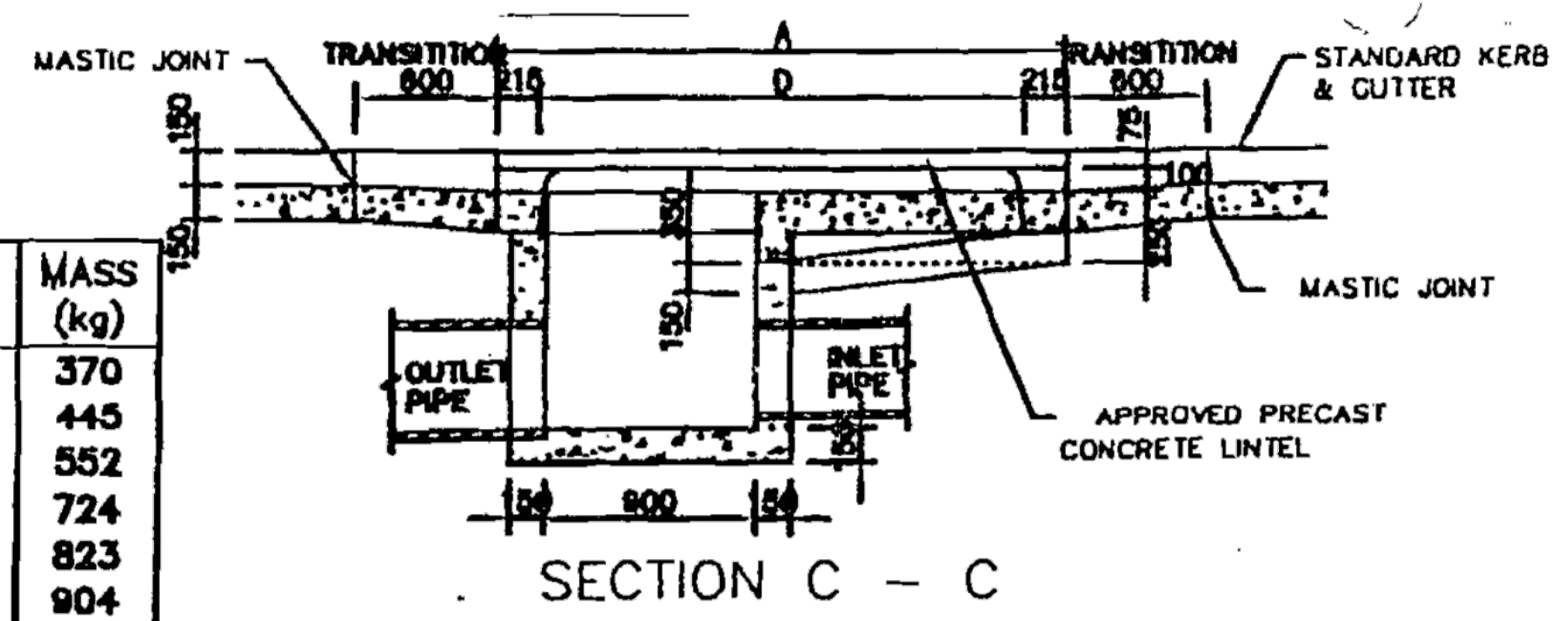
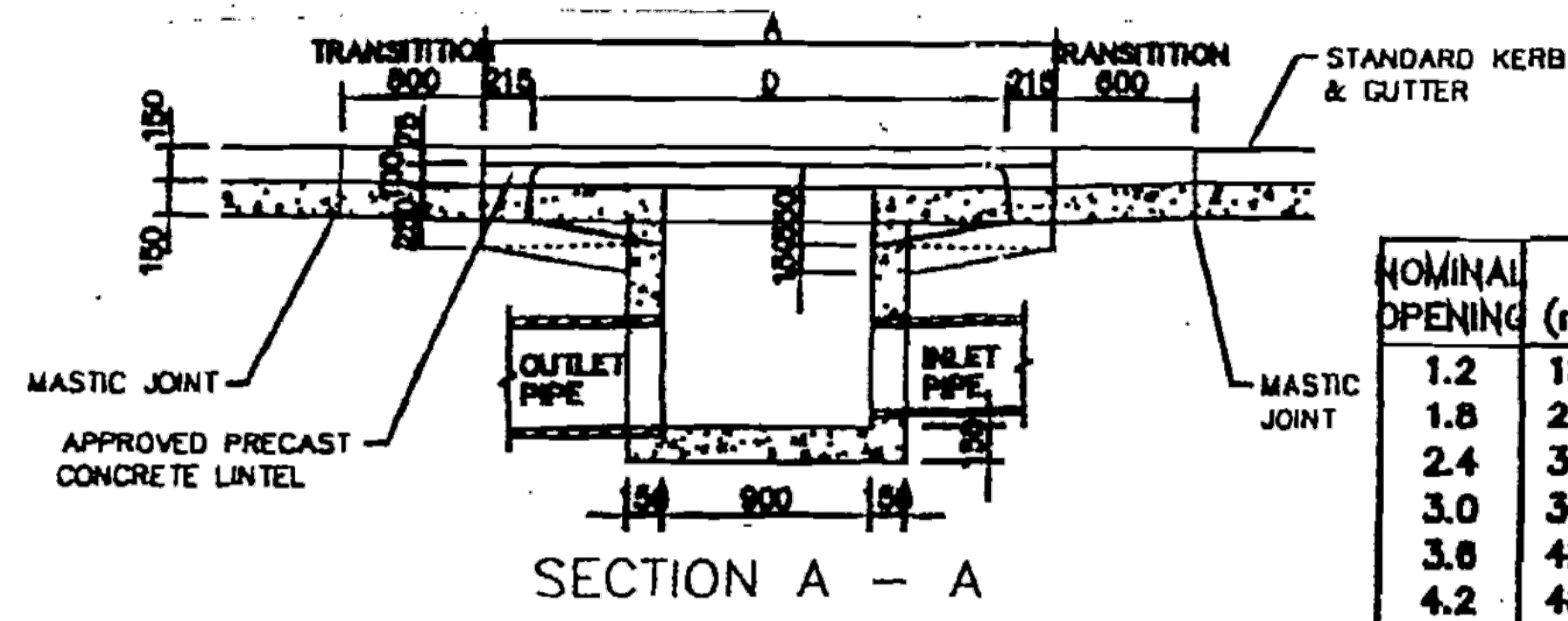
Scales	Drawn	Project
AS SHOWN	JS	FERNADELL RESERVE PITT TOWN NSW 2756
Grid MGA2020	Designed SM	Title TYPICAL DETAILS SHEET 2
Height Datum AHD	Checked SM	
	Approved AT	

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

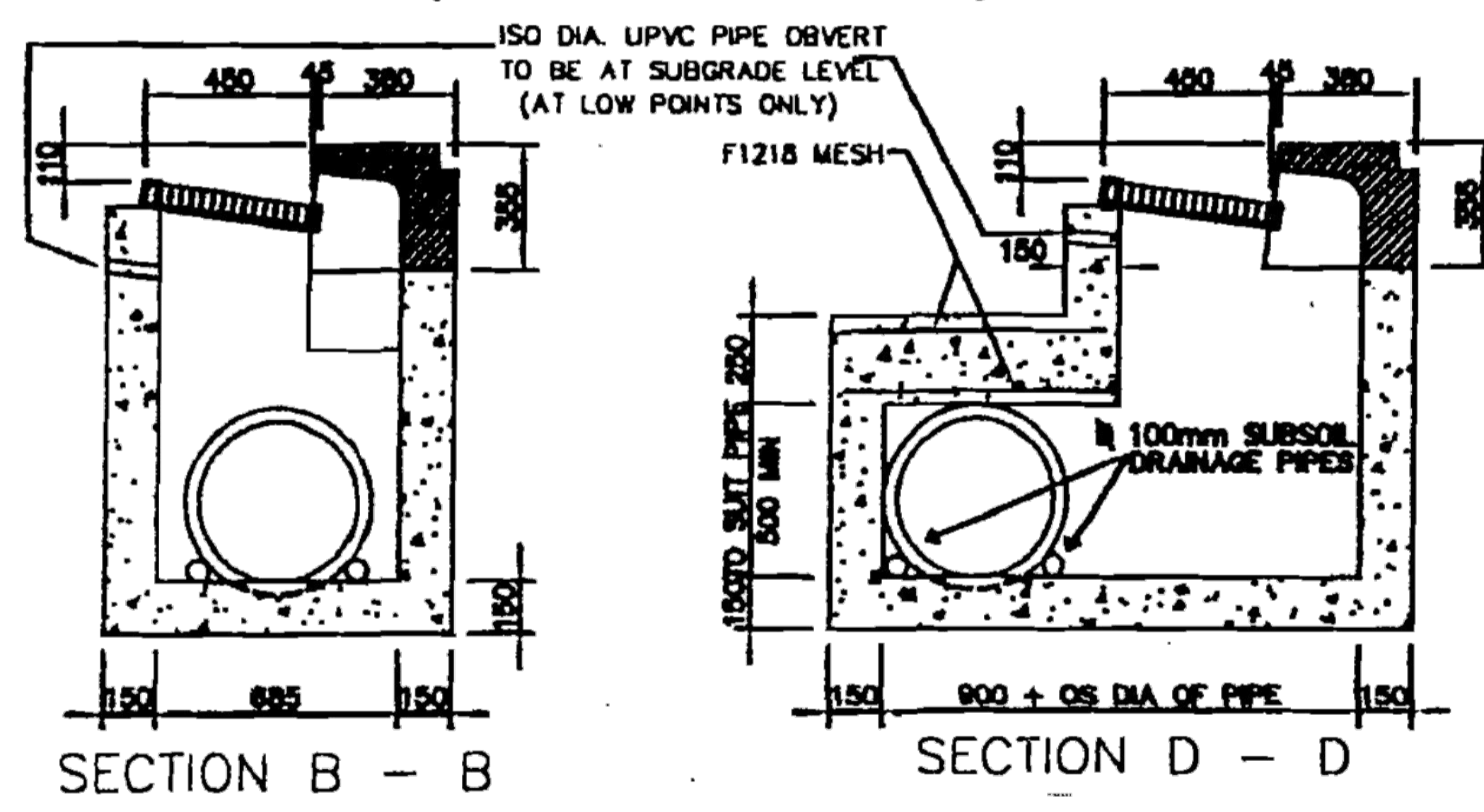
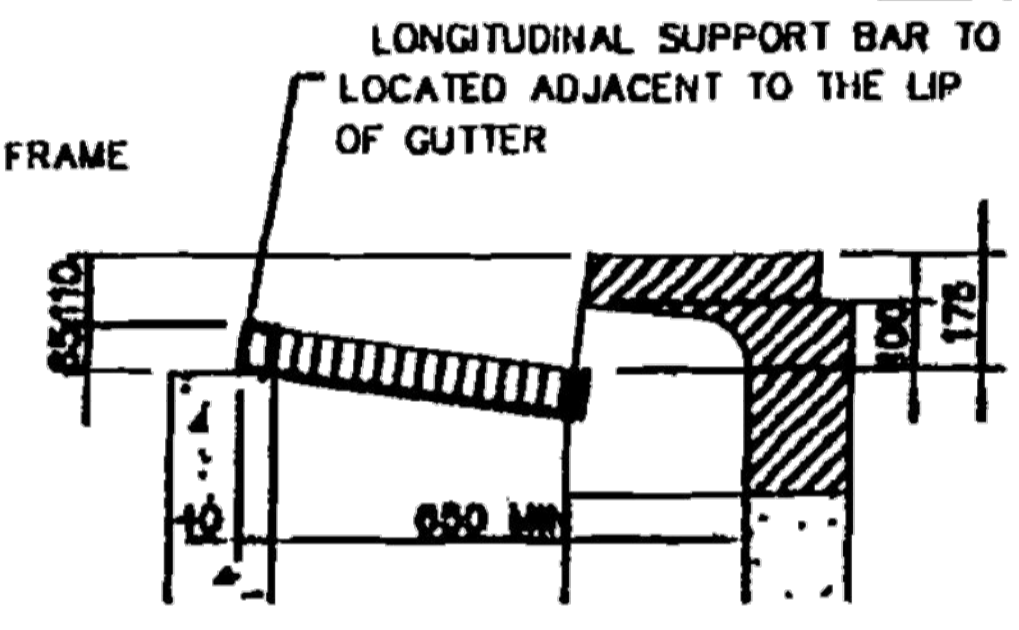
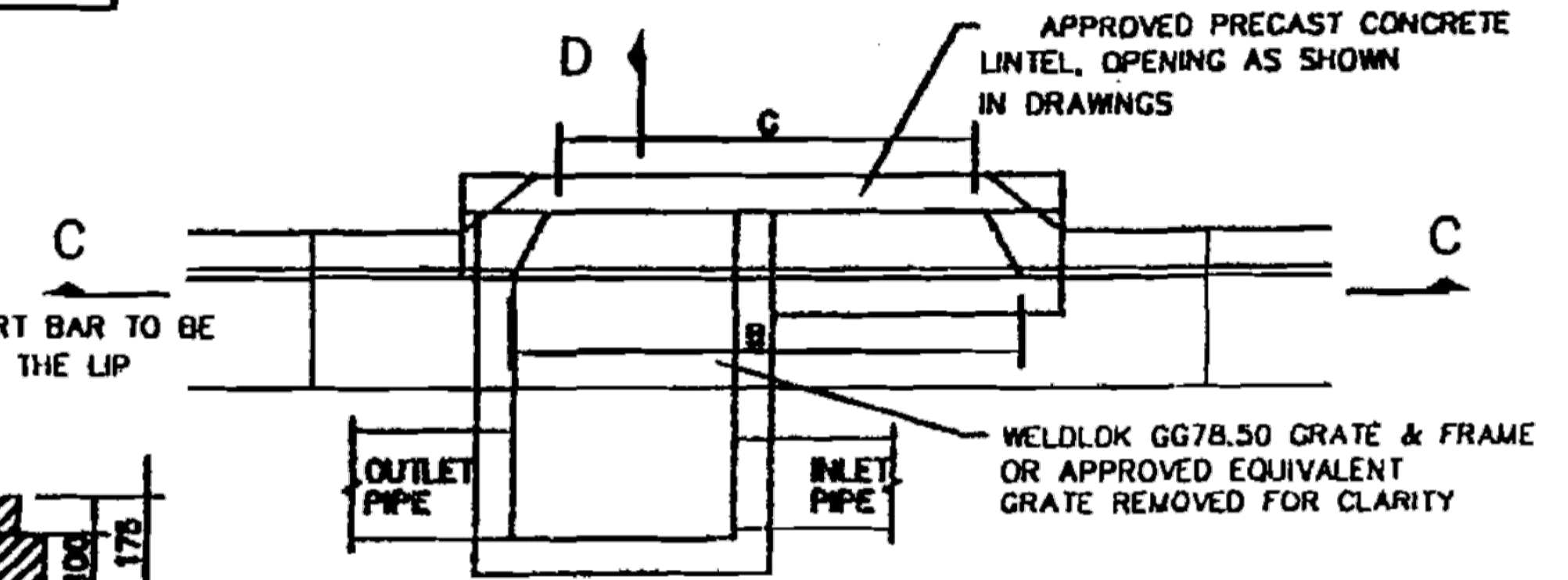
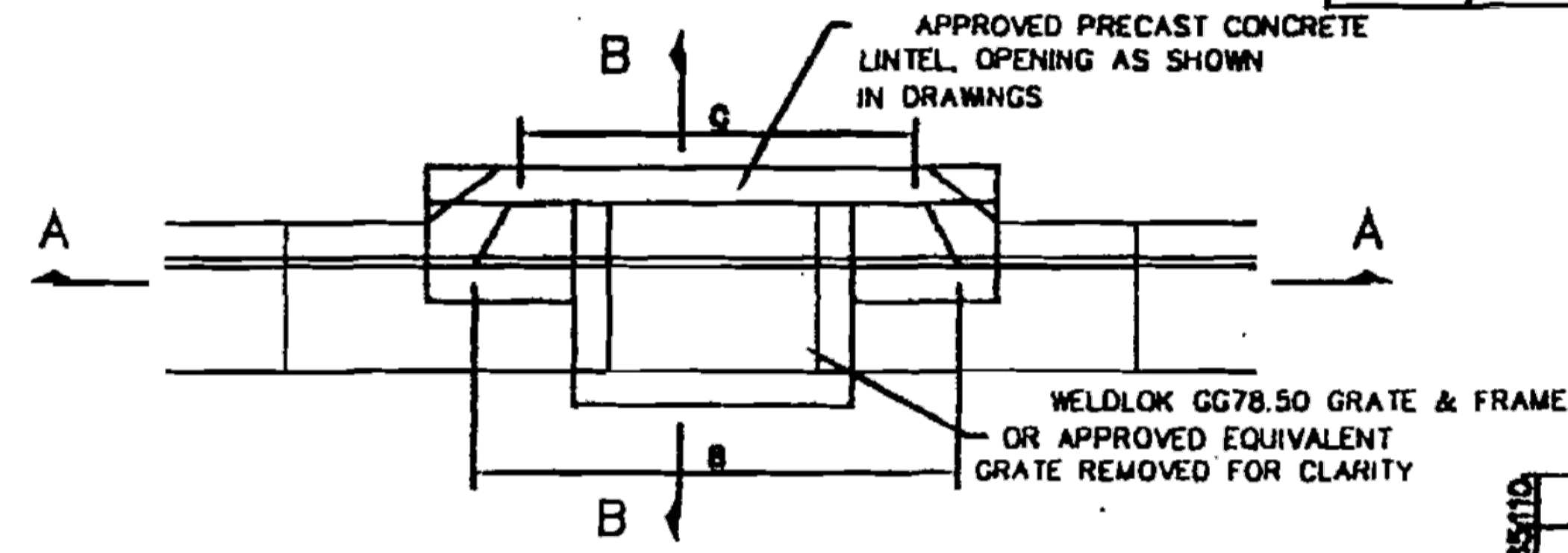
Status	Issue
FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. 23-1123-C0041	Issue D

Issue	Date






NOMINAL OPENING	A (mm)	B (mm)	C (mm)	D (mm)	MASS (kg)
1.2	1825	1460	1180	1365	370
1.8	2438	2083	1778	2007	445
2.4	3048	2892	2390	2615	552
3.0	3657	3302	3000	3226	724
3.6	4267	3912	3610	3835	823
4.2	4877	4521	4220	4445	904
4.8	5486	5130	4830	5055	996






**GRATING DETAIL NOTES :**

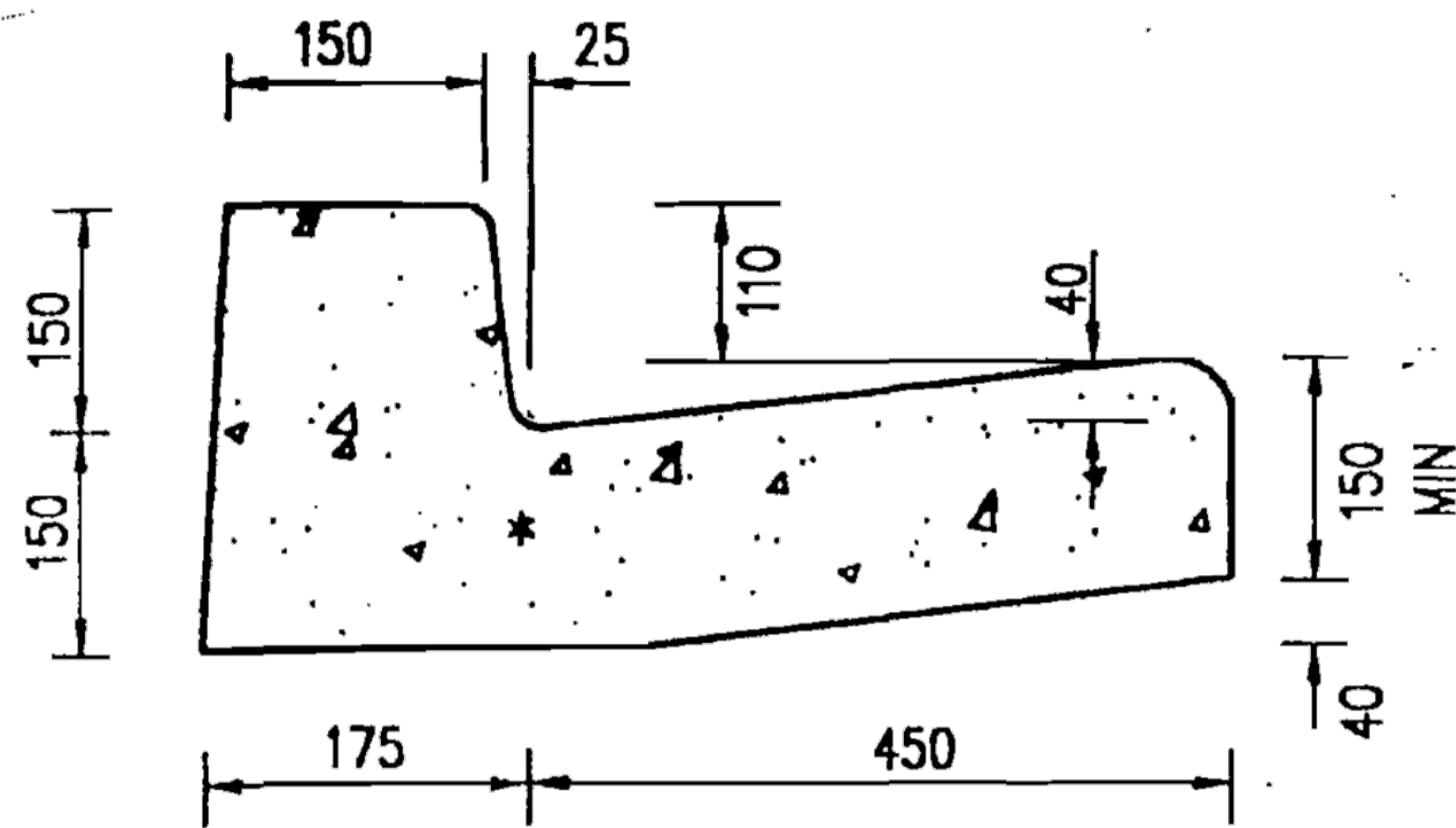
- WHERE DEPTH EXCEEDS 1200mm PROVIDE APPROVED 24mm DIA STEEL STEP IRONS AT 350mm c/c TOP TO BOTTOM OF PIT SEE SD41
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF  $F_c = 20 \text{ MPa} @ 28 \text{ DAYS}$
- MINIMUM COVER TO ALL PIPES SHALL BE 600mm UNDER ROADS AND 450mm ELSEWHERE, UNLESS OTHERWISE SPECIFIED
- WHERE THE INTERNAL WIDTH EXCEEDS 900mm OR DEPTH EXCEEDS 1800mm THE WALLS SHALL BE REINFORCED IN ACCORDANCE WITH SD 35.
- MINIMUM COVER TO REINFORCEMENT SHALL BE 40mm
- ALL STEEL REINFORCEMENT SHALL COMPLY WITH AS 1302 AND AS 1304
- F1218 MESH CAN BE REPLACED WITH F81 MESH WITH Y16 BARS @ 200 c/c
- 100mm DIA SUB SOIL DRAINAGE PIPE, 3.0m LONG AND WRAPPED IN A FILTER SOCK, SHALL BE PROVIDED ON THE UPSTREAM FACE OF THE PIT AND SHALL BE CONNECTED AT INLET PIPE INVERT LEVEL AND CLEAR OF ANY BENCHING.
- THE GRATE FRAME SHALL BE INSTALLED WITH THE LONGITUDINAL SUPPORT BAR ADJACENT TO THE LIP OF THE GUTTER
- DO NOT SCALE FROM THIS DRAWING

Hawkesbury City Council  **STANDARD GRATED GULLY PIT**

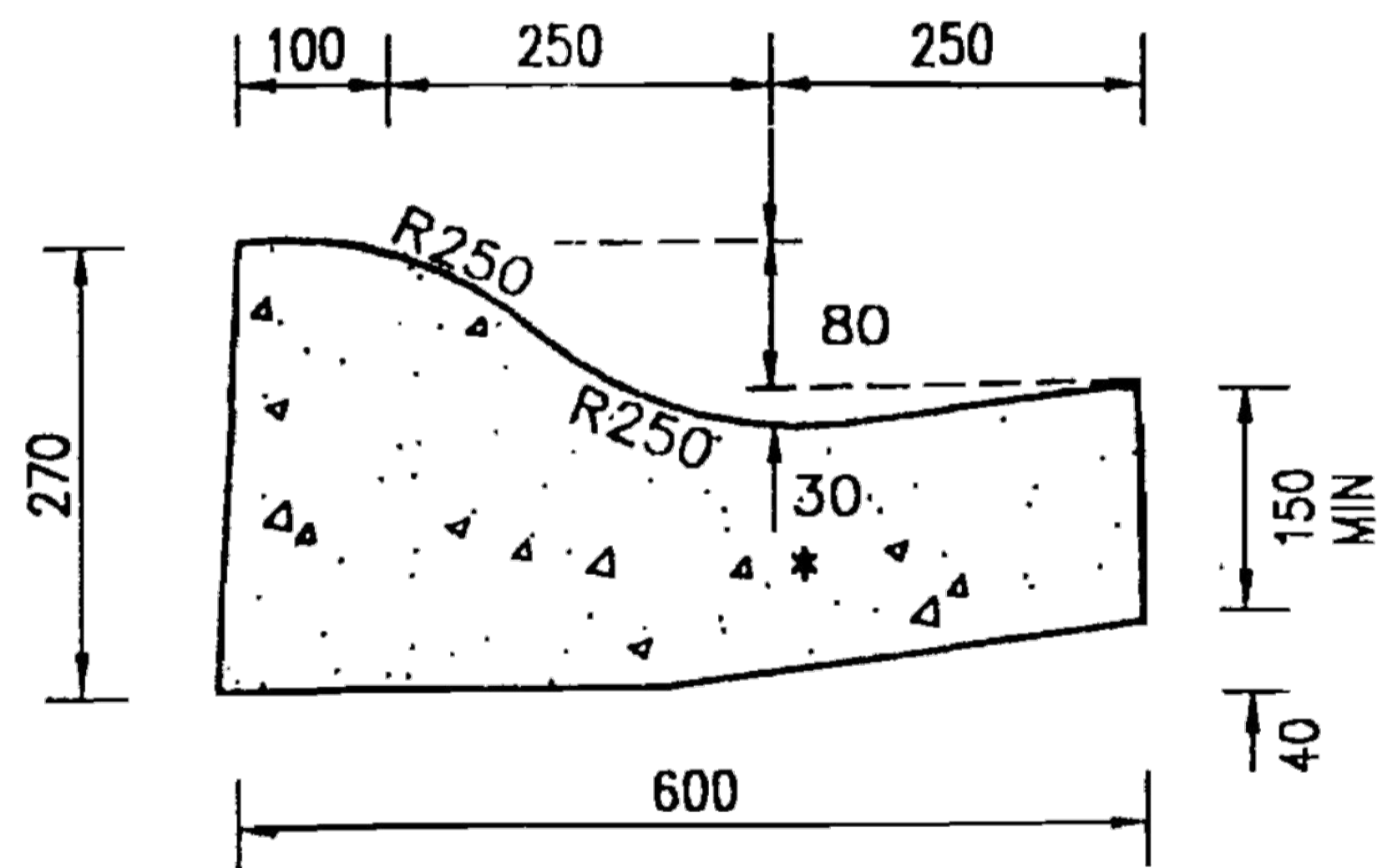
SCALE : NTS DRAWING No. : SD 30 SHEET 1 of 3

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Issue	Description	Date																				
D	FOR TENDER	29-08-2024																				
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				<p>Grid</p> <p>MGA2020</p>		<p>Title</p> <p>TYPICAL DETAILS SHEET 3</p>	<p>Status</p> <p>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</p>	<p>Project - Drawing No.</p> <p>23-1123-C0042</p>	<p>Issue</p> <p>D</p>													
				<p>Height Datum</p> <p>AHD</p>	 <p>THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&amp;I</p>																	

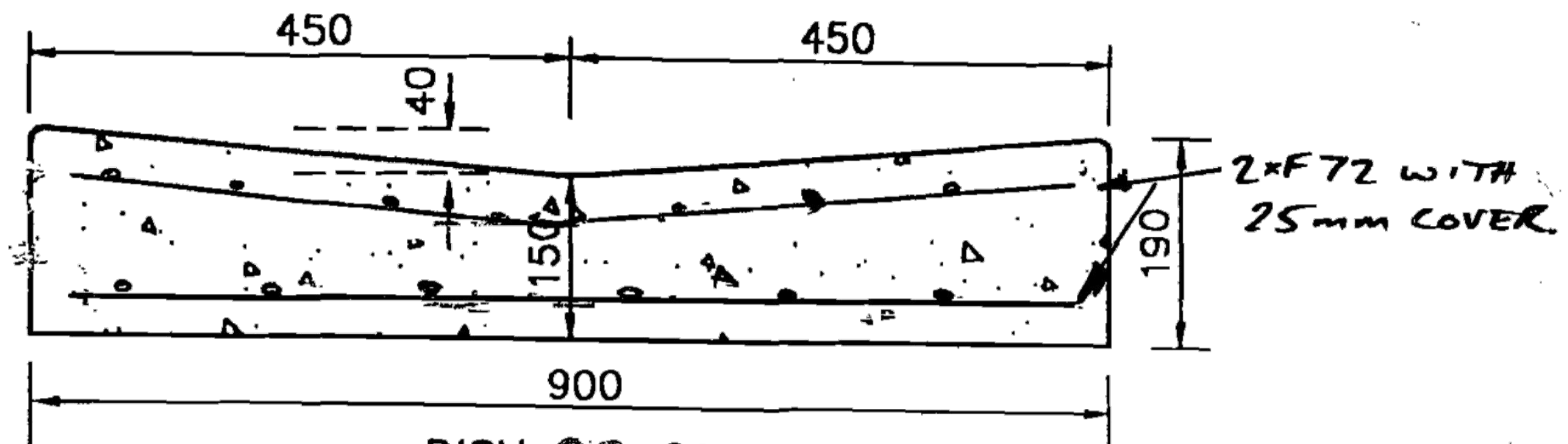




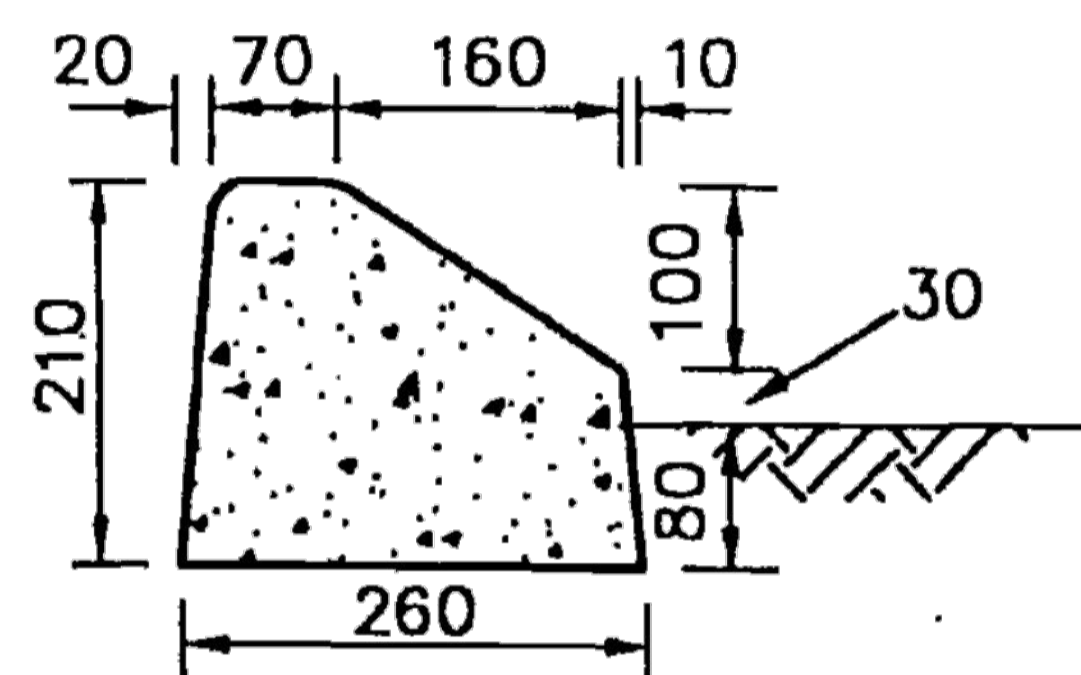
**STANDARD KERB & GUTTER**  
(MODIFIED SA)



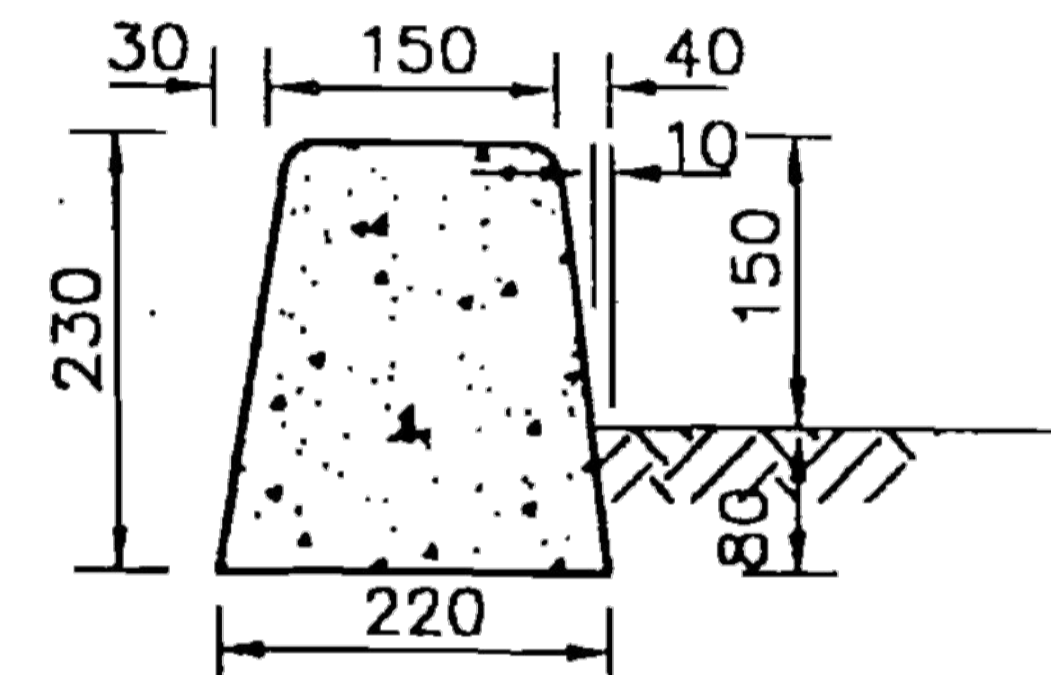
**ROLL KERB & GUTTER**  
(MODIFIED RT)



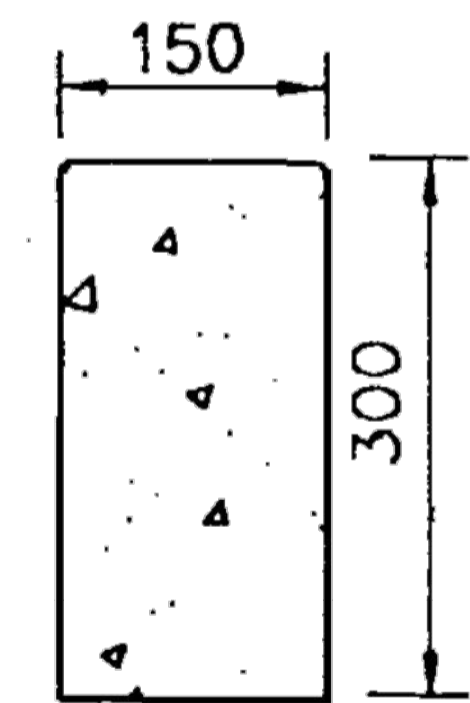
**DISH CROSSING**  
(MODIFIED SB)



**MOUNTABLE KERB**  
(SF)



**KERB ONLY OR BARRIER KERB**  
(SM)



**EDGE RESTRAINT**

**NOTE:**

1. CONCRETE TO BE 20 MPa UNLESS OTHERWISE SPECIFIED
  2. ALL EXPOSED CORNERS TO HAVE A RADIUS OF 10 UNLESS OTHERWISE SPECIFIED
  3. ALL DIMENSIONS IN MILLIMETRES
  4. SOME KERB DIMENSIONS SLIGHTLY VARY FROM RTA STANDARDS
  5. REFER TO SPECIFICATION FOR JOINT TYPE, LOCATION & SPACING REQUIREMENTS
  6. REFER TO SPECIFICATION FOR CONSTRUCTION TOLERANCES.
- \* THINNEST PART OF KERBS TO BE MINIMUM 150 IRRESPECTIVE OF CONSTRUCTION TOLERANCES.

Hawkesbury City Council



**STANDARD KERB & GUTTER PROFILES**

SCALE : NTS

DRAWING No. : SD4 SHEET 1 of 2

Issue	Description	Date
D	FOR TENDER	29-08-2024
C	80% DESIGN ISSUE	12-04-24
B	80% DESIGN ISSUE	20-03-24
A	50% DESIGN ISSUE	03-11-23

Bar Scales

Client



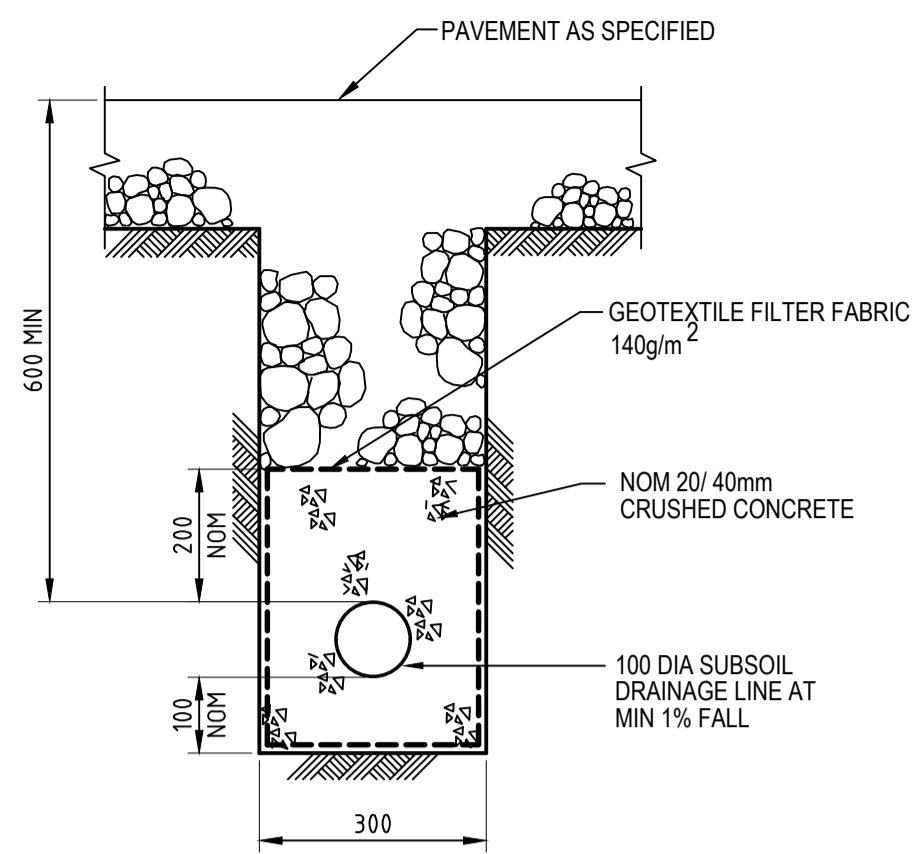
Scales	Drawn	JS
AS SHOWN	Designed	SM
Grid MGA2020	Checked	SM
Height Datum AHD	Approved	AT

Project
FERNADELL RESERVE PITT TOWN NSW 2756
TITLE TYPICAL DETAILS SHEET 4

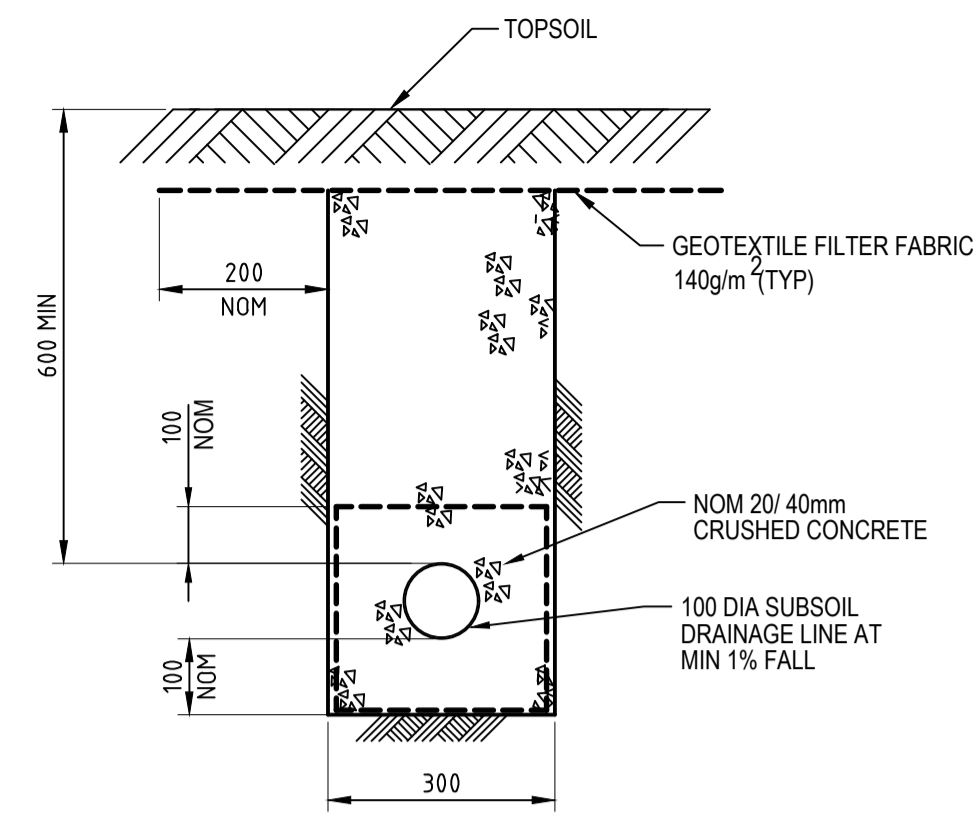
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR TENDER
Project - Drawing No.	23-1123-C0043
Issue	D

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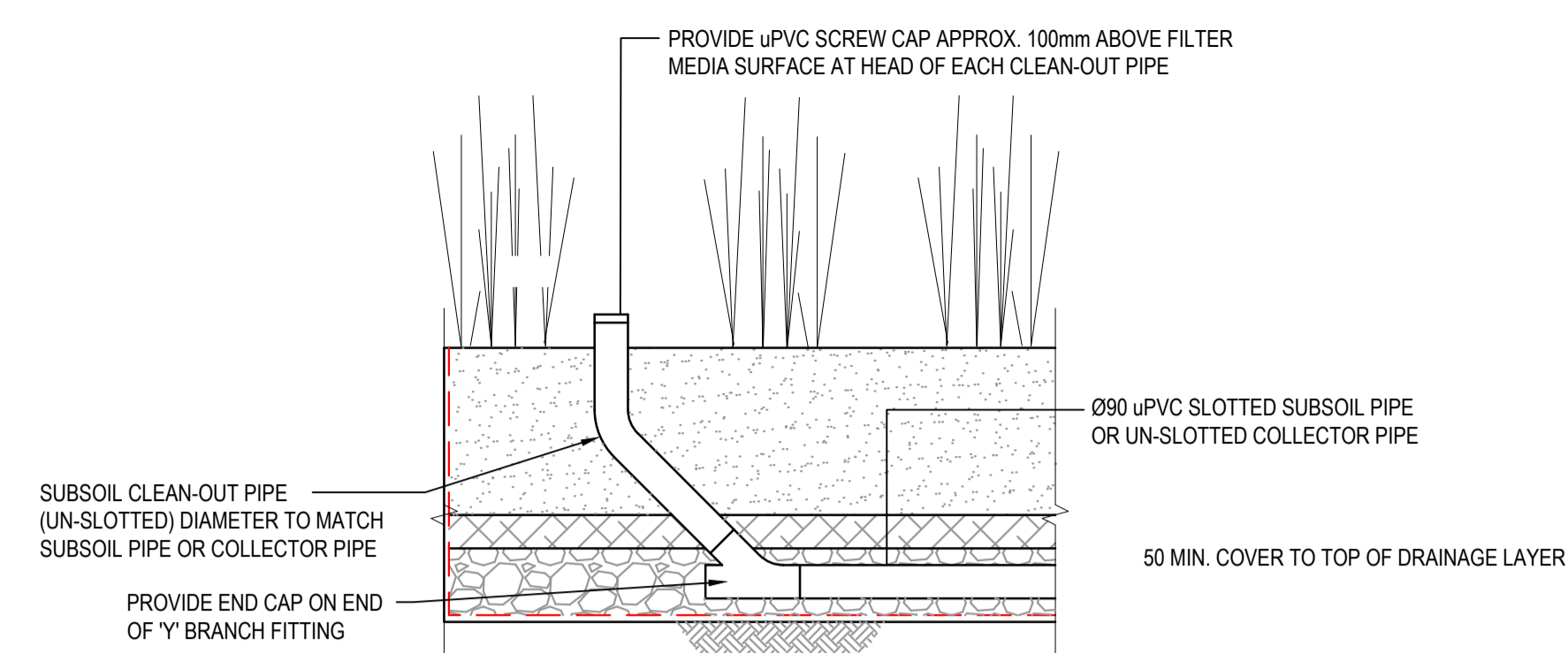




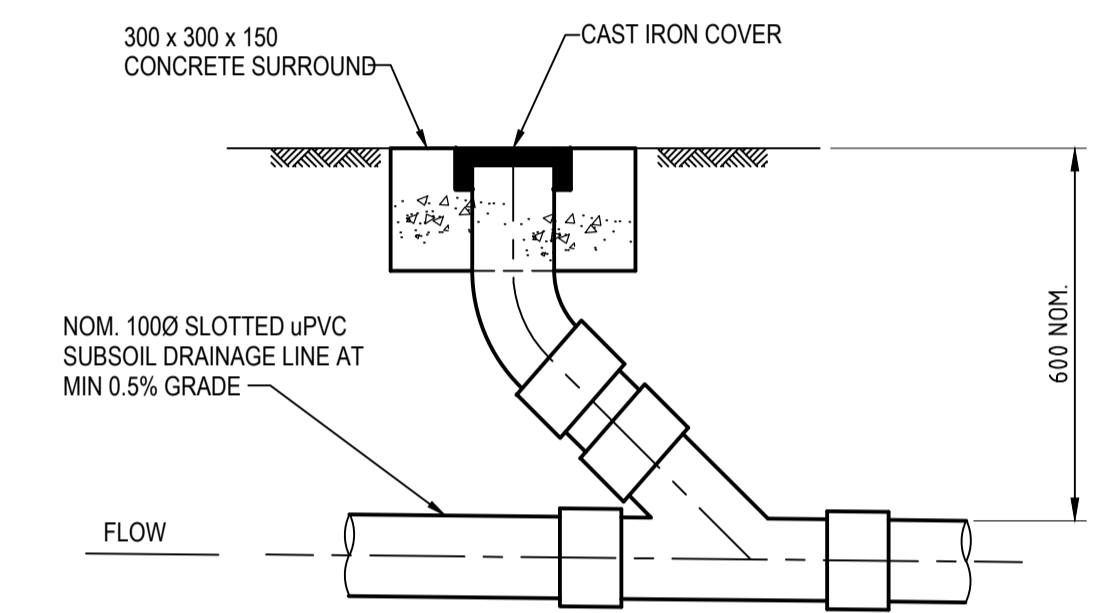
**SUBSOIL IN PAVED AREAS**  
SCALE 1:10



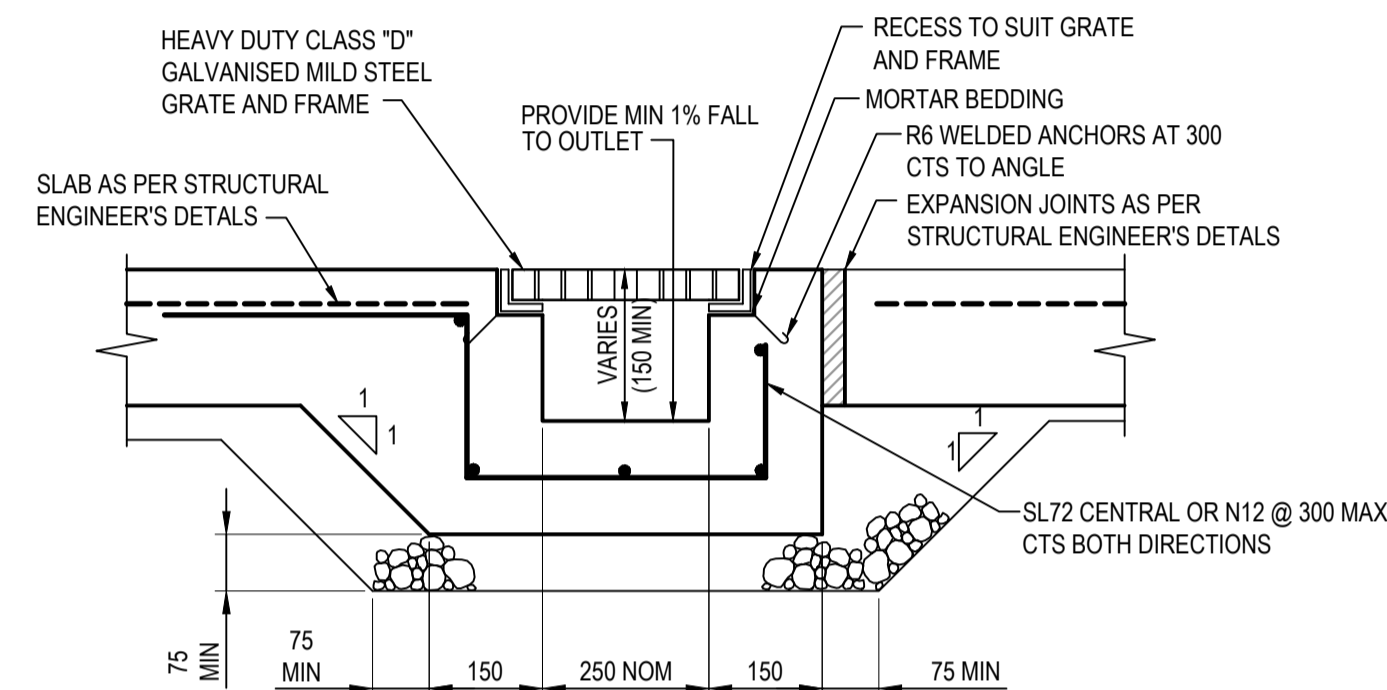
**SUBSOIL IN LANDSCAPED AREAS**  
SCALE 1:10



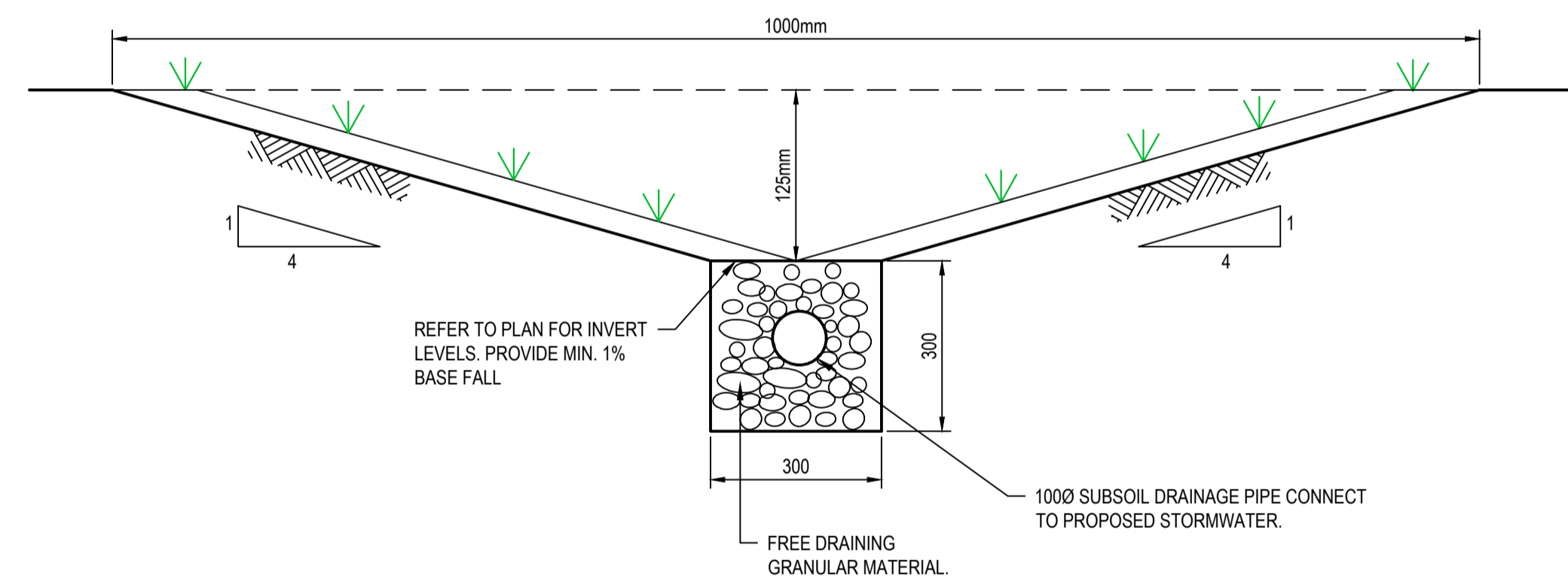
**RAINGARDEN SUBSOIL PIPE FLUSH-OUT DETAIL**  
SCALE 1:20



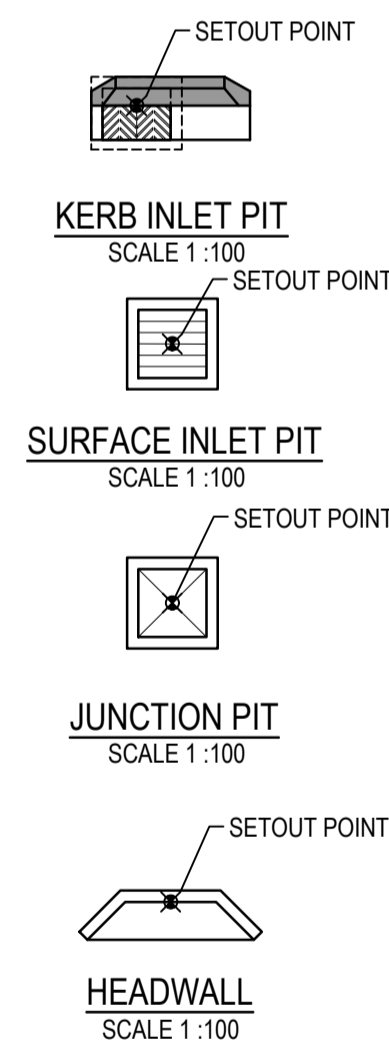
**INTERMEDIATE RISER (IR)**  
SCALE 1:10



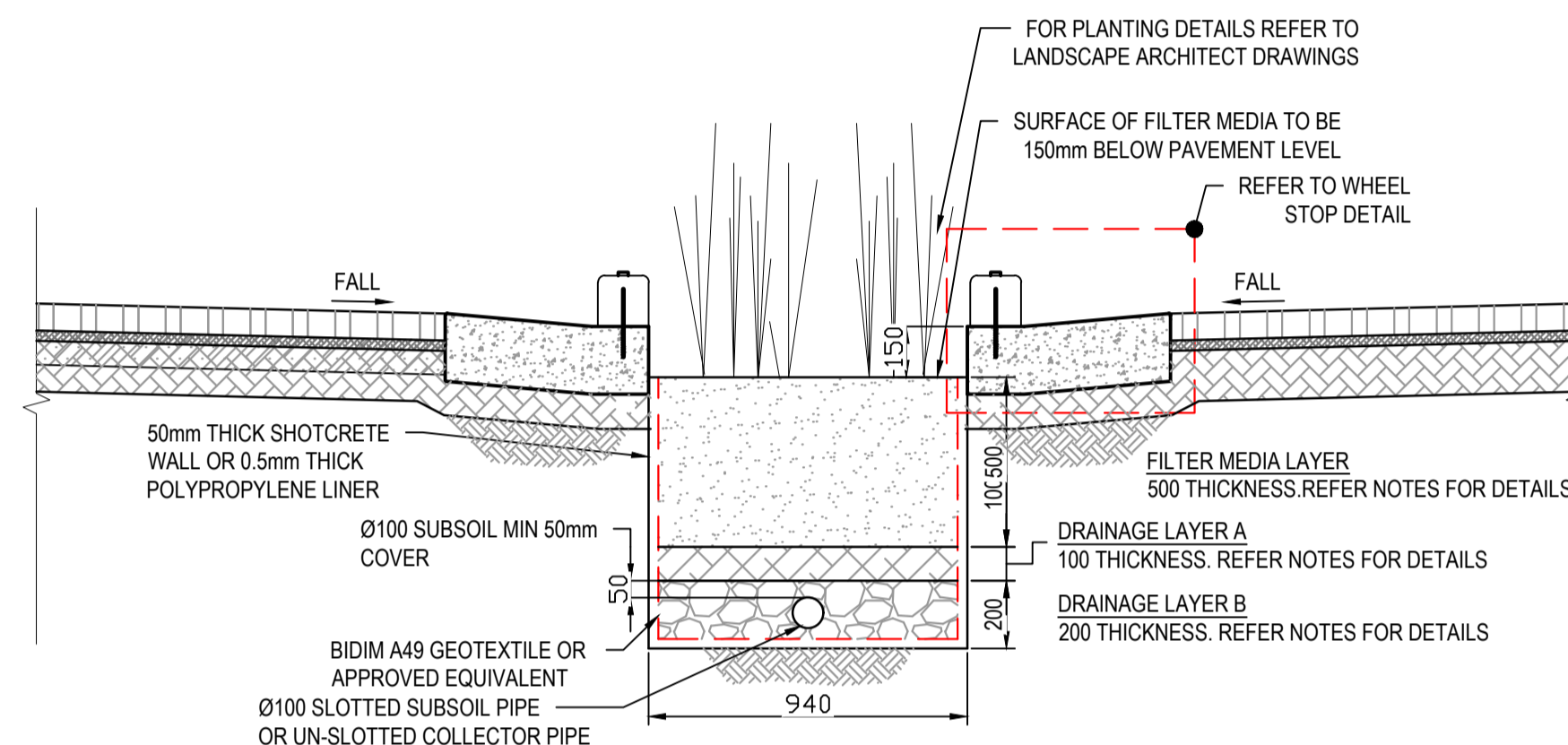
**GRATED DRAIN (GD)**  
SCALE 1:10



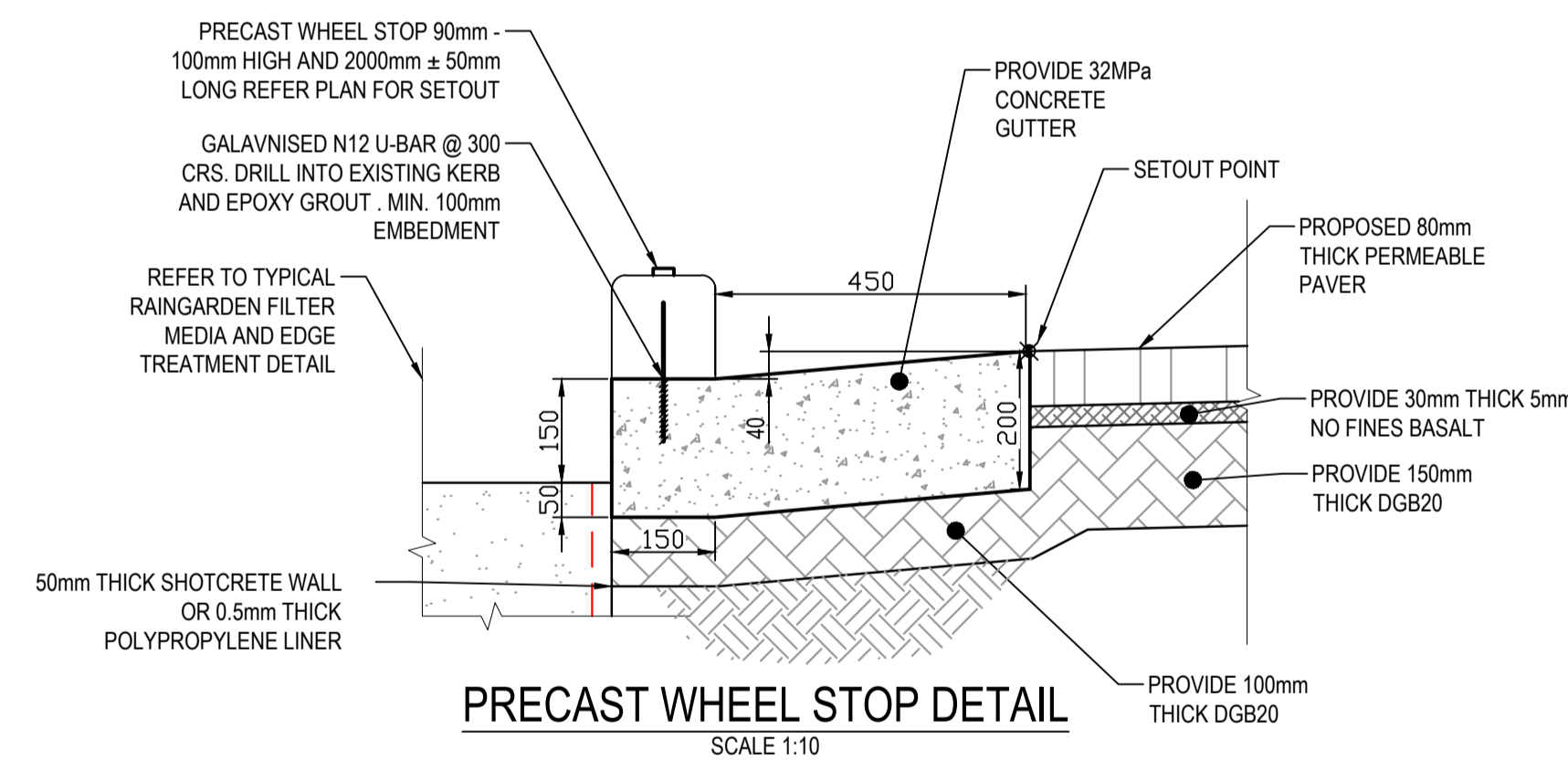
**TYPICAL SECTION THROUGH PLANTED SWALE**  
SCALE 1:10



**STORMWATER PIT SETOUT POINTS**  
REFER PIT SETOUT PLANS FOR ENLARGED CHAMBERS



**TYPICAL RAINGARDEN FILTER MEDIA AND EDGE TREATMENT DETAIL**  
SCALE 1:20



**PRECAST WHEEL STOP DETAIL**  
SCALE 1:10

**BIO-RETENTION FILTER MEDIA SPECIFICATION**

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

- A) BIO-RETENTION FILTER MEDIA**
- BIO-RETENTION MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL.
  - BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE 100mm/hr - 250mm/hr USING TEST METHOD ASTM F1815-06.
  - BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS:
 

CLAY & SILT	<3%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mm)
FINE SAND	10-30%	(0.15-0.25mm)
MEDIUM TO COARSE SAND	40-60%	(0.25-1.0mm)
COARSE SAND	7-10%	(1.0-2.0mm)
FIN GRAVEL	<3%	(2.0-3.4mm)
- THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3% (W/W) UNDER ANY CIRCUMSTANCES.
- BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS:
    - ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 MUST NOT EXCEED 5%(W/W)
    - TOTAL NITROGEN (TN) CONTENT <1000mg/kg
    - ORTHOPHOSPHATE (PO<sub>4</sub>) CONTENT MUST NOT EXCEED 80mg/kg.
    - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5 (pH 1.5 IN WATER)
    - ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOILS BLENDS" AS4419 <1.2ds/m
    - DISPENSABILITY - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419
- CATEGORY 1 OR 2  
g) TEXTURE - SANDY LOAM MIX AS PER AS4419 (IN ACCORDANCE WITH FAWB GUIDELINES)

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

- B) DRAINAGE LAYER A**
- DRAINAGE LAYER MATERIAL IS TO BE CLEAN, FINE GRAVEL, SUCH AS A 2 - 5mm WASHED SCREENING, THE PARTICLE SIZE DISTRIBUTION TO BE: D<sub>15</sub> (DRAINAGE LAYER) < 5 x D<sub>85</sub> (TRANSITION LAYER) WHERE: D<sub>15</sub> (DRAINAGE LAYER) IS THE 15th PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN D<sub>15</sub>mm), AND D<sub>85</sub> (TRANSITION LAYER) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

- C) DRAINAGE LAYER B**
- NO FINES DRAINAGE GRAVEL.
- ACCEPTABLE PARTICLE DISTRIBUTION AS FOLLOWS:
- |       |      |
|-------|------|
| >7mm  | 0%   |
| 4-7mm | >70% |
| 2-4mm | <20% |
| <2mm  | 0%   |

**SEDIMENTATION LAYER**

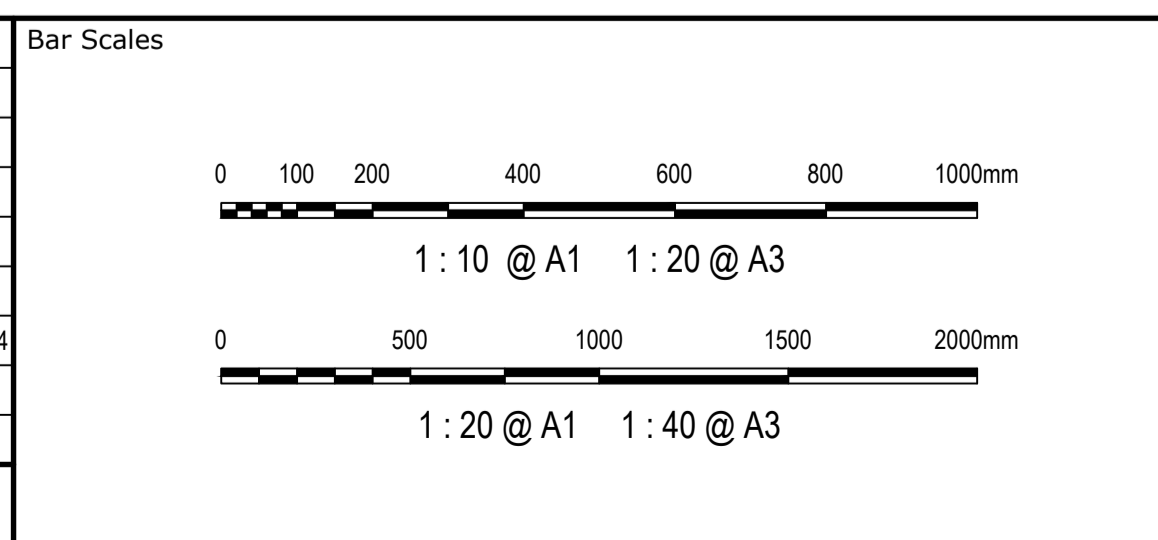
FUTURE WATER QUALITY BASINS ARE TO BE USED AS SEDIMENTATION BASINS UNTIL THE MAJORITY OF THE DEVELOPMENT IS COMPLETE. BASINS ARE TO BE OVER EXCAVATED BY 100mm AND (50mm) OF TOPSOIL WON FROM SITE LAID, TURFED WITH COUCH. AT THE COMPLETION OF THE DEVELOPMENT OR WHEN DIRECTED BY THE SUPERINTENDENT, ANY SIGNIFICANT (>50mm) BUILD-UP OF SEDIMENTATION TO BE REMOVED AND FINAL SUBSOIL FILTER MATERIAL INSTALLED. TURF & TOPSOIL CAN REMAIN INSITU. SEDIMENTATION BUILD-UP REMOVAL IS TO BE REMOVED FROM SITE OR REUSED ON SITE DURING THE CONTRACT PERIOD.

**INSTALLATION:**

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

ALL MATERIALS IS TO BE PER FAWB GUIDELINES.

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Client

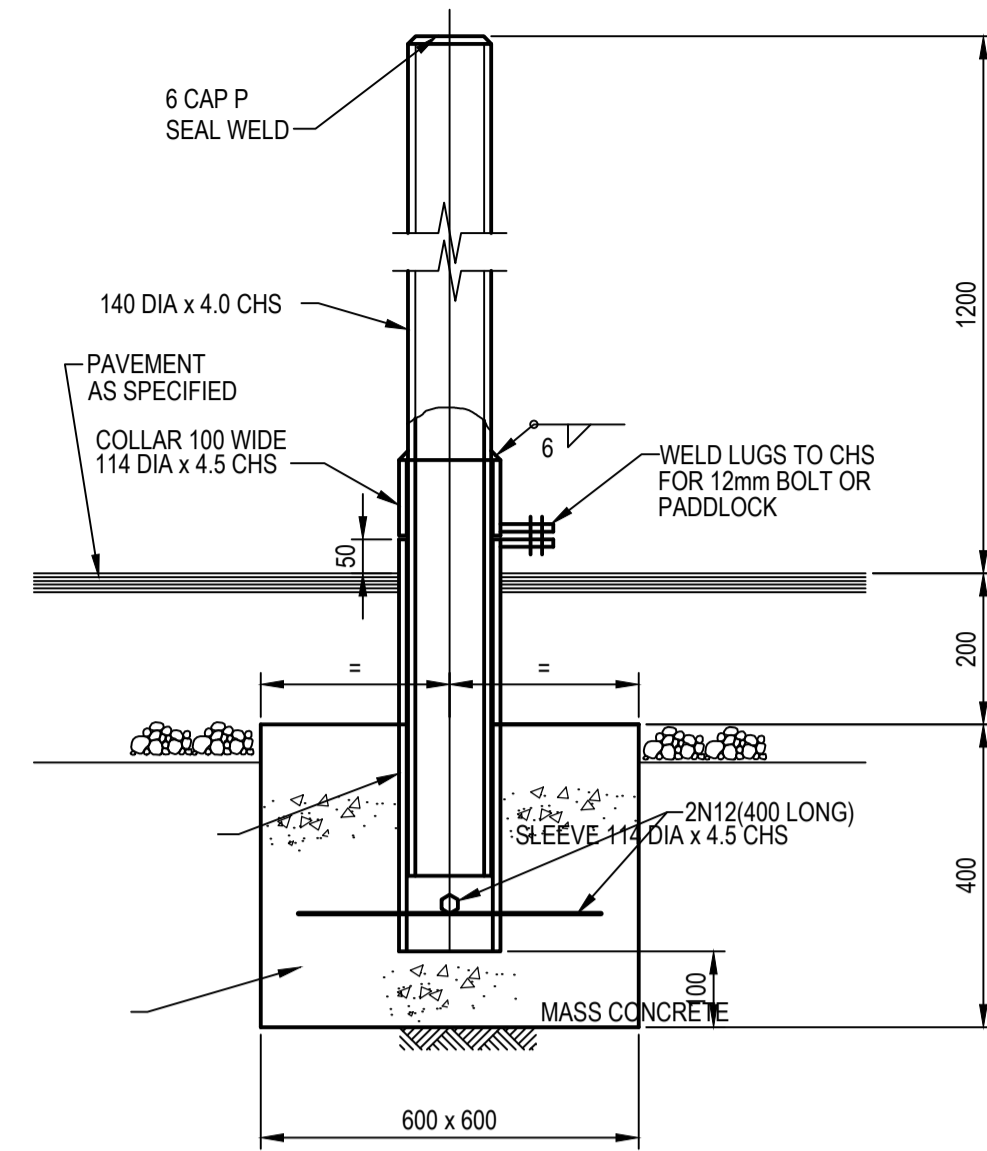
Scales	Drawn	Project
AS SHOWN	JS	FERNADELL RESERVE PITT TOWN NSW 2756
Grid	SM	
Height Datum	AT	

Grid	Checked	Title
MGA2020	SM	TYPICAL DETAILS SHEET 5
AHD	AT	

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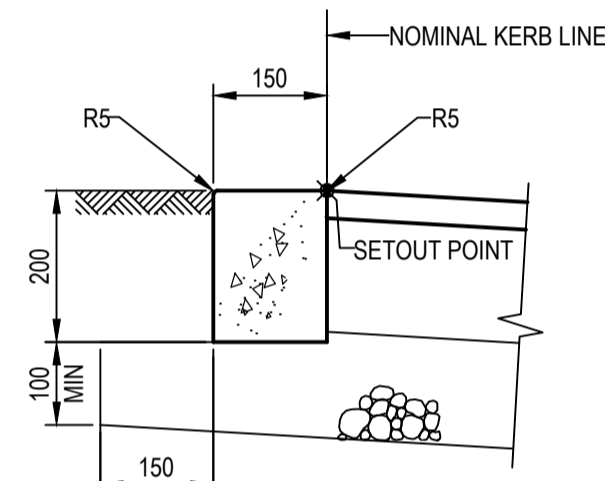
Status	Project - Drawing No.	Issue
FOR TENDER NOT TO BE USED FOR CONSTRUCTION	23-1123-C0044	A1 C





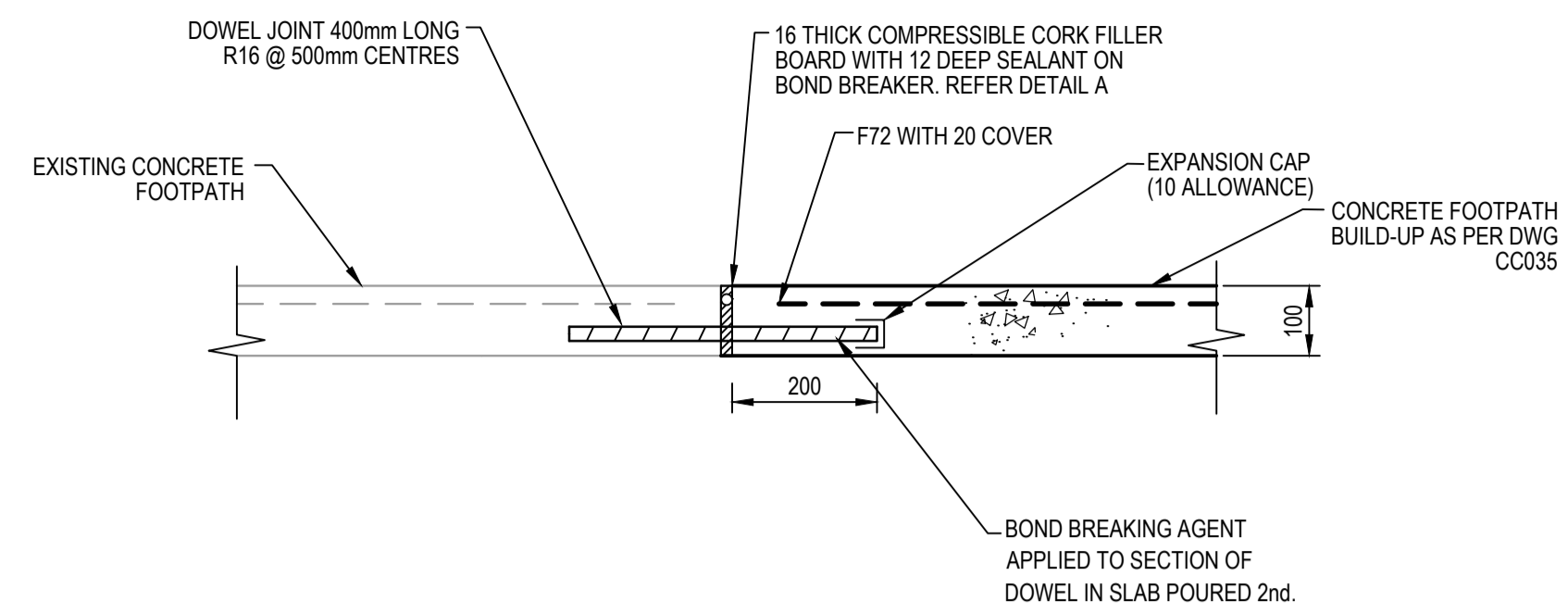
**BOLLARD TO FLEXIBLE PAVEMENT (B)**

SCALE 1:10  
FINISH: HOT DIP GALVANISED  
600gm/m<sup>2</sup>



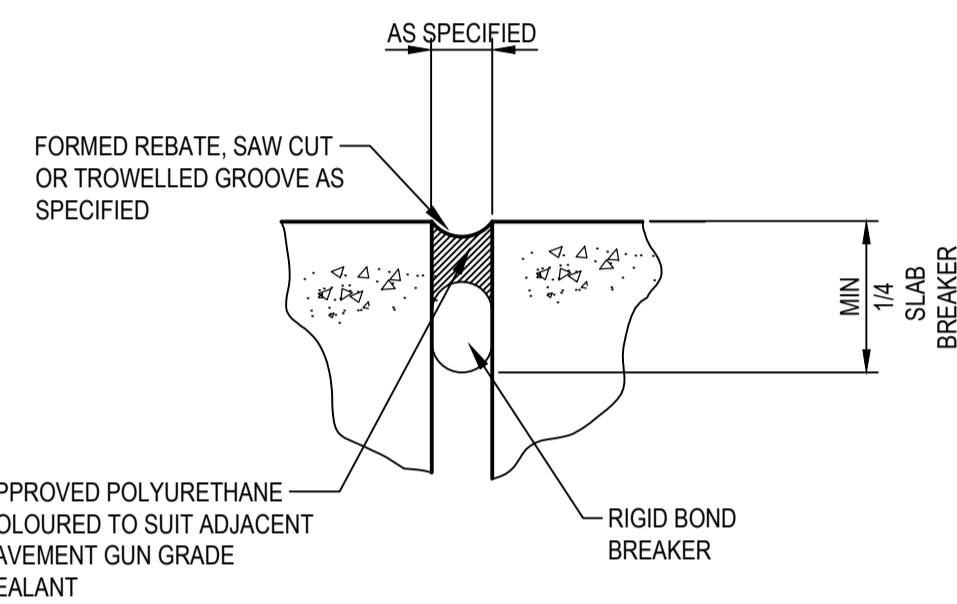
**FLUSH KERB (FK)**

SCALE 1:10



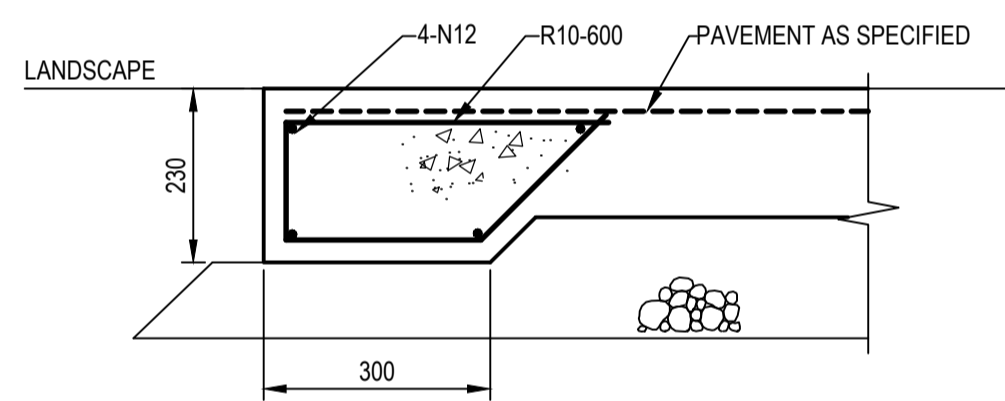
**FOOTPATH WIDENING FERNADELL DR AND STABLES ST  
DOWELLED EXPANSION JOINT (DEJ)**

1:10



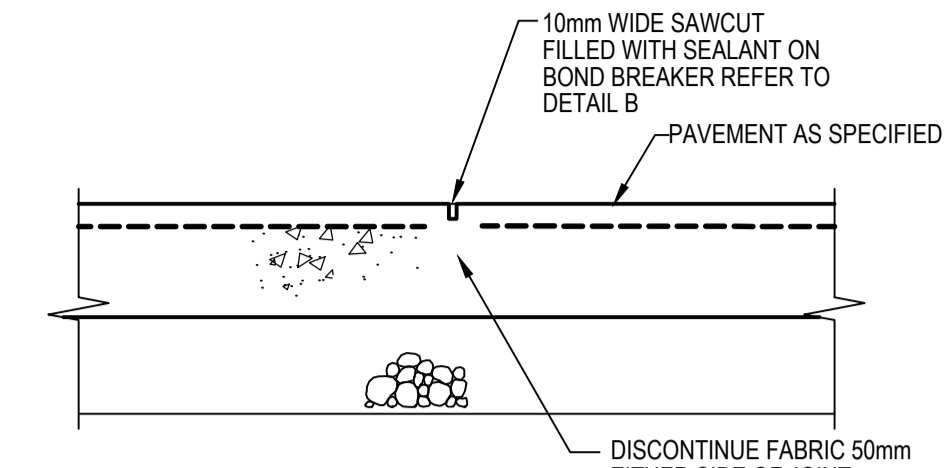
**DETAIL 'A'**

NTS



**THICKENED EDGE (TE)**

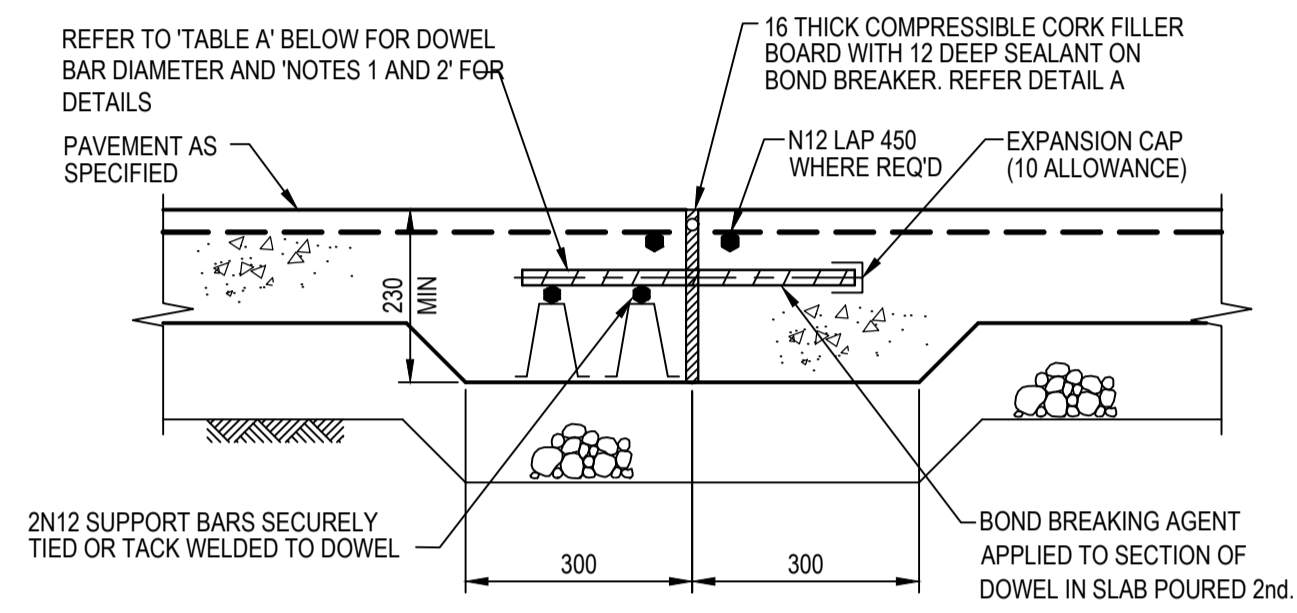
SCALE 1:10



NOTE: SAWCUT TO BE MADE 24 HOURS MAX. AFTER SLAB IS POURED

**SAWN JOINT (SJ)**

SCALE 1:10



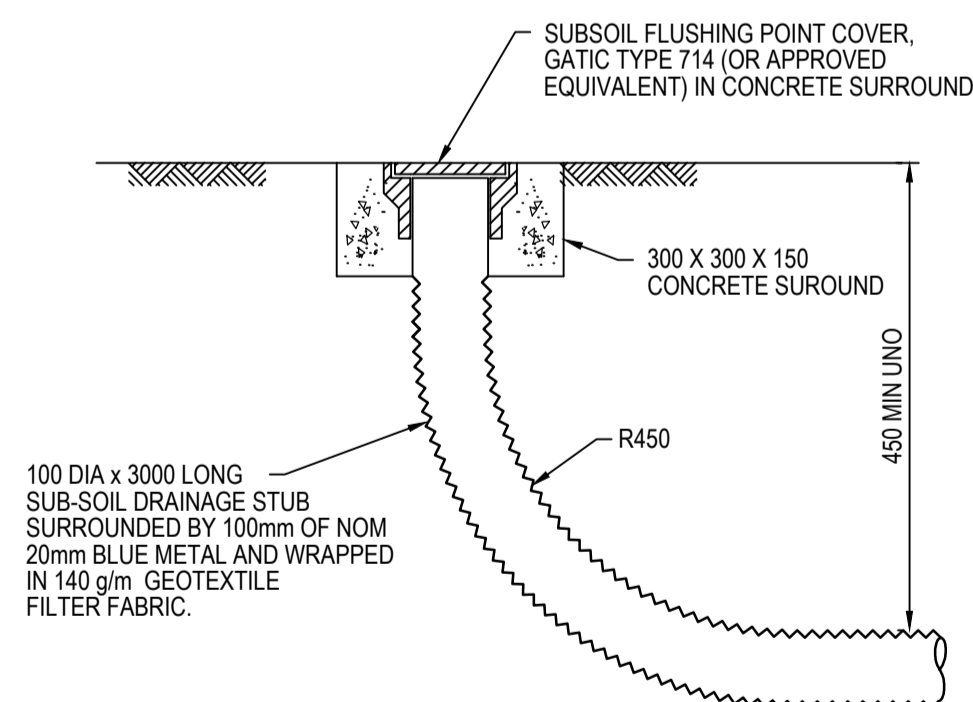
**DOWELLED EXPANSION JOINT (DEJ)**

SCALE 1:10

TABLE A	
SLAB THICKNESS	DOWEL DIA.
125<d<160	24
160<d<200	28
200<d<250	32
D>250	36

NOTE:

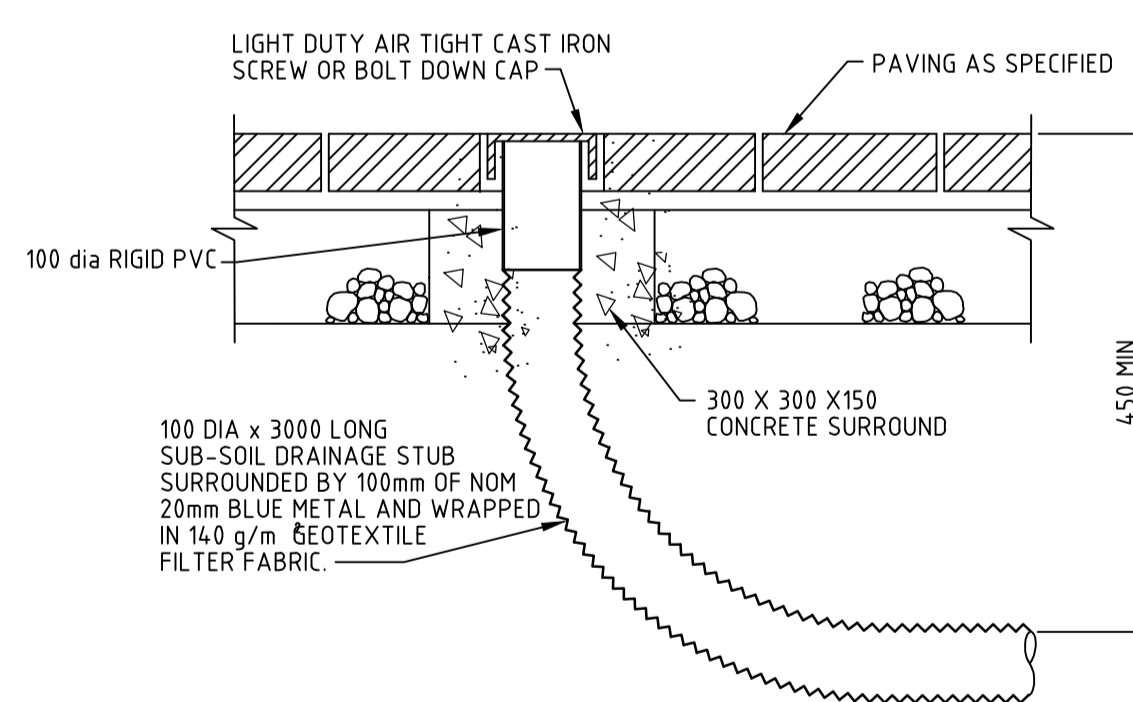
- DOWEL BARS ARE TO BE PLAIN ROUND STEEL BARS OF GRADE 250N AND 450mm LONG PLACED AT 300mm CENTRES.
- MORE THAN HALF OF THE DOWEL SHOULD BE COATED WITH DEBONDING AGENT TO ENSURE EFFECTIVE DEBONDING FROM THE CONCRETE ON THAT SIDE OF THE JOINT.



**FLUSHING POINT IN LANDSCAPING**

SCALE 1:10

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



**FLUSHING POINT IN PAVEMENT**


SCALE 1:10

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24

Bar Scales	
0 100 200 400 600 800 1000mm	1:10 @ A1 1:20 @ A3
0 500 1000 1500 2000mm	1:20 @ A1 1:40 @ A3

Client




AS SHOWN	Drawn	JS
	Designed	SM
Grid MGA2020	Checked	SM
Height Datum AHD	Approved	AT

GDA2020

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Project	
FERNADELL RESERVE PITT TOWN NSW 2756	
Title	
TYPICAL DETAILS SHEET 6	

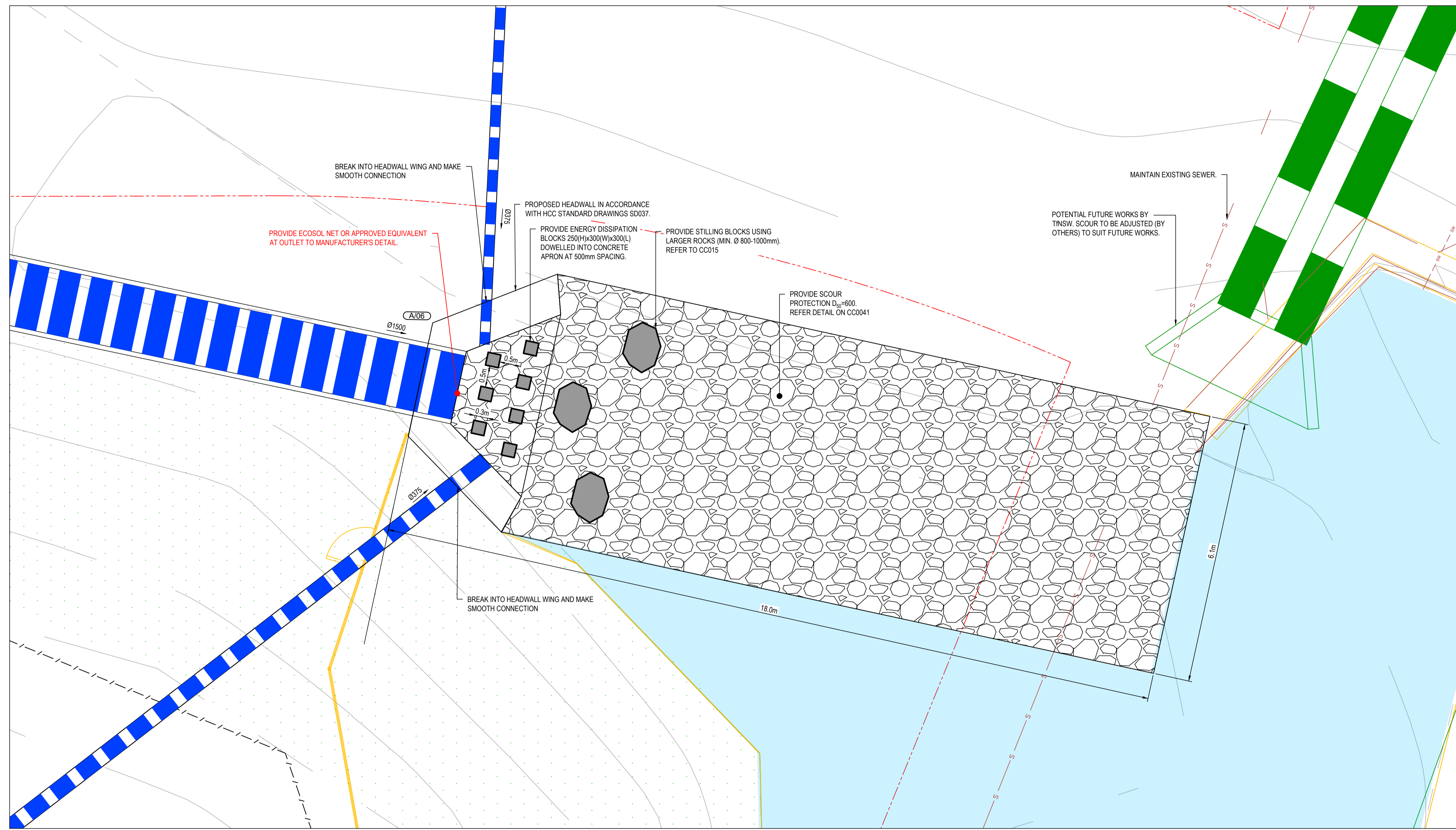
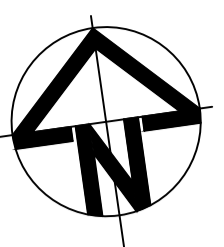
Civil Engineers and Project Managers



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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

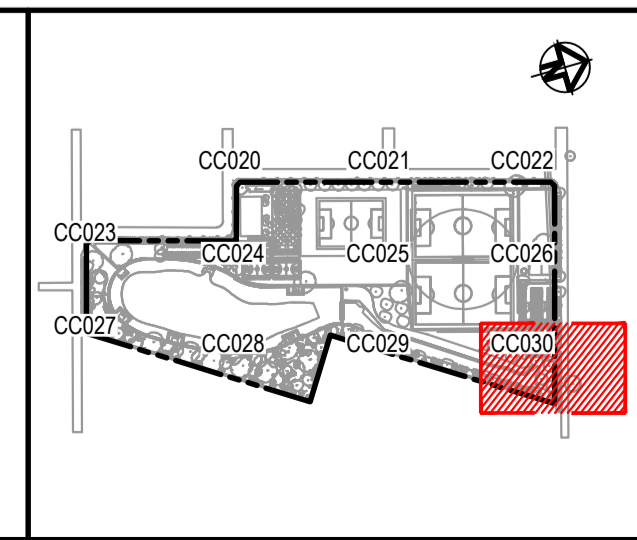
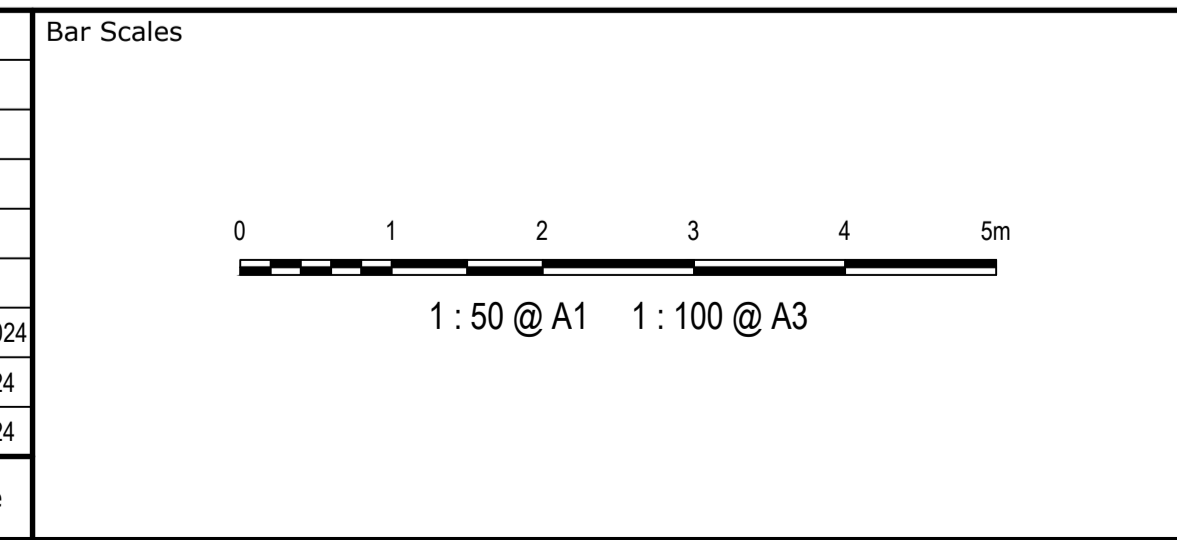
Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0045	Issue
		C





HEADWALL A/06  
1:50

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Client

AS SHOWN	Drawn	NT
MGA2020	Designed	SM
AHD	Checked	SM
	Approved	AT

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Project

FERNADELL RESERVE  
PITT TOWN  
NSW 2756

Title

HEADWALL A/06  
DETAIL

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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info@atl.net.au

Status

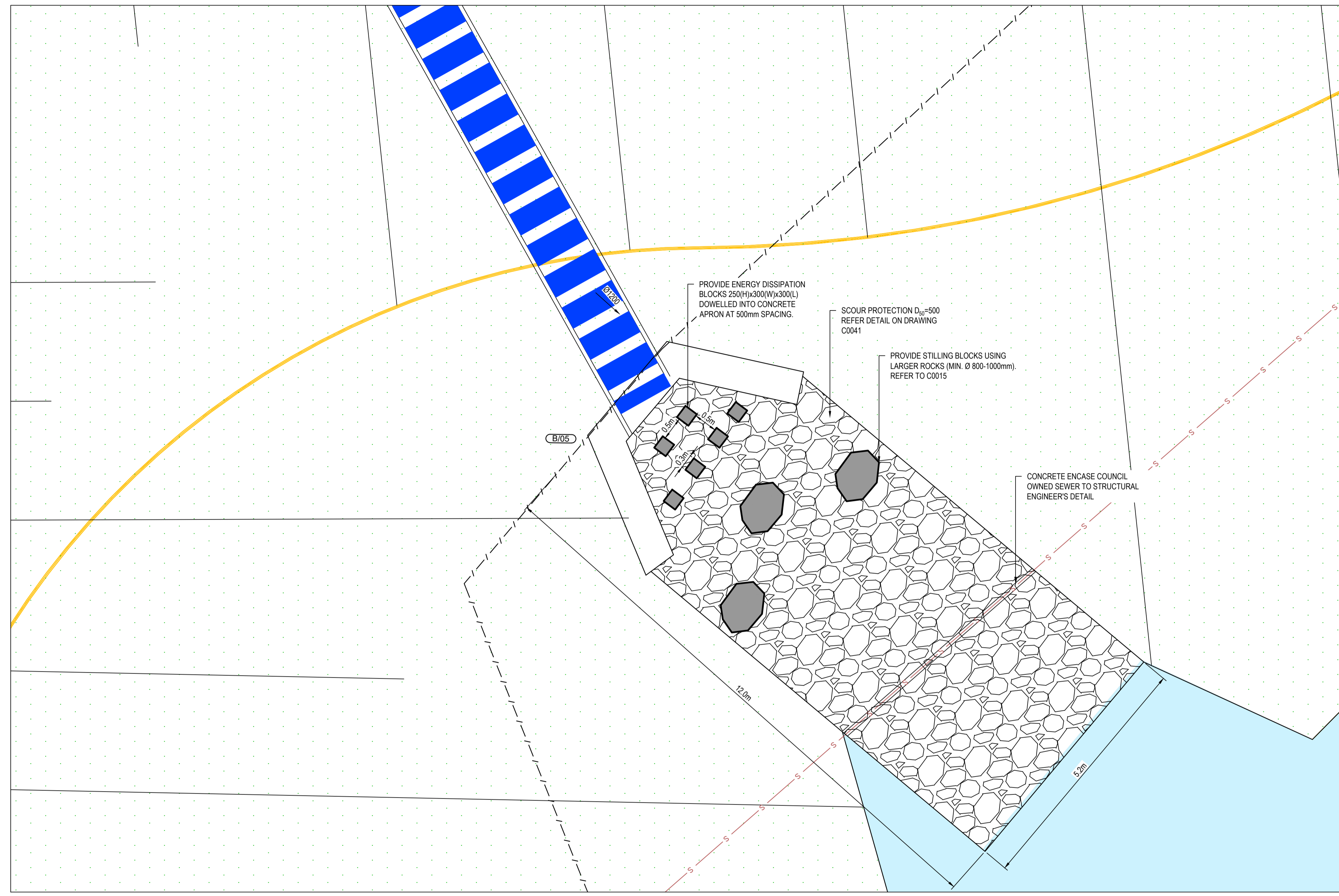
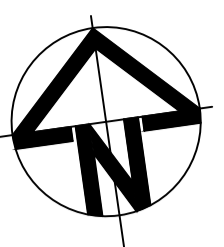
FOR TENDER  
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.  
23-1123-C0050

Issue

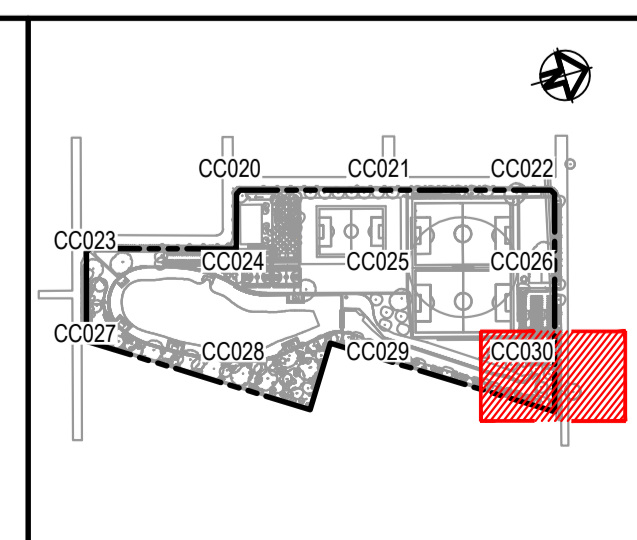
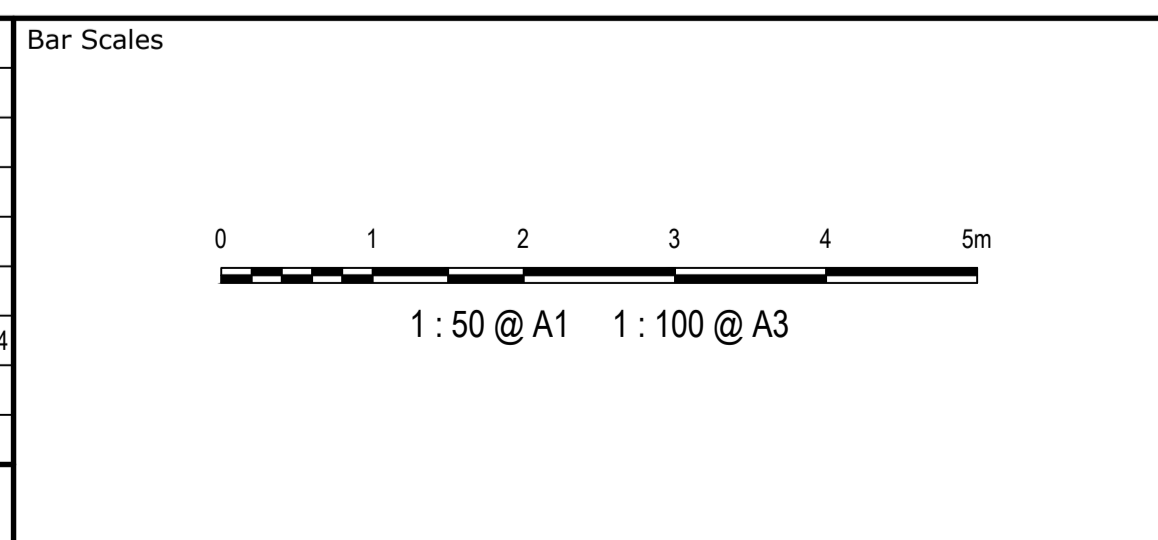
A1  
C





HEADWALL B/05  
1 : 50

Issue	Description	Date
C	FOR TENDER	29-08-2024
B	80% DESIGN ISSUE	12-04-24
A	80% DESIGN ISSUE	20-03-24



Client

AS SHOWN	Drawn	JS
MGA2020 <td>Designed</td> <td>SM</td>	Designed	SM
AHD <td>Checked</td> <td>SM</td>	Checked	SM
	Approved	AT

GDA2020

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Project

FERNADELL RESERVE  
PITT TOWN  
NSW 2756

Title

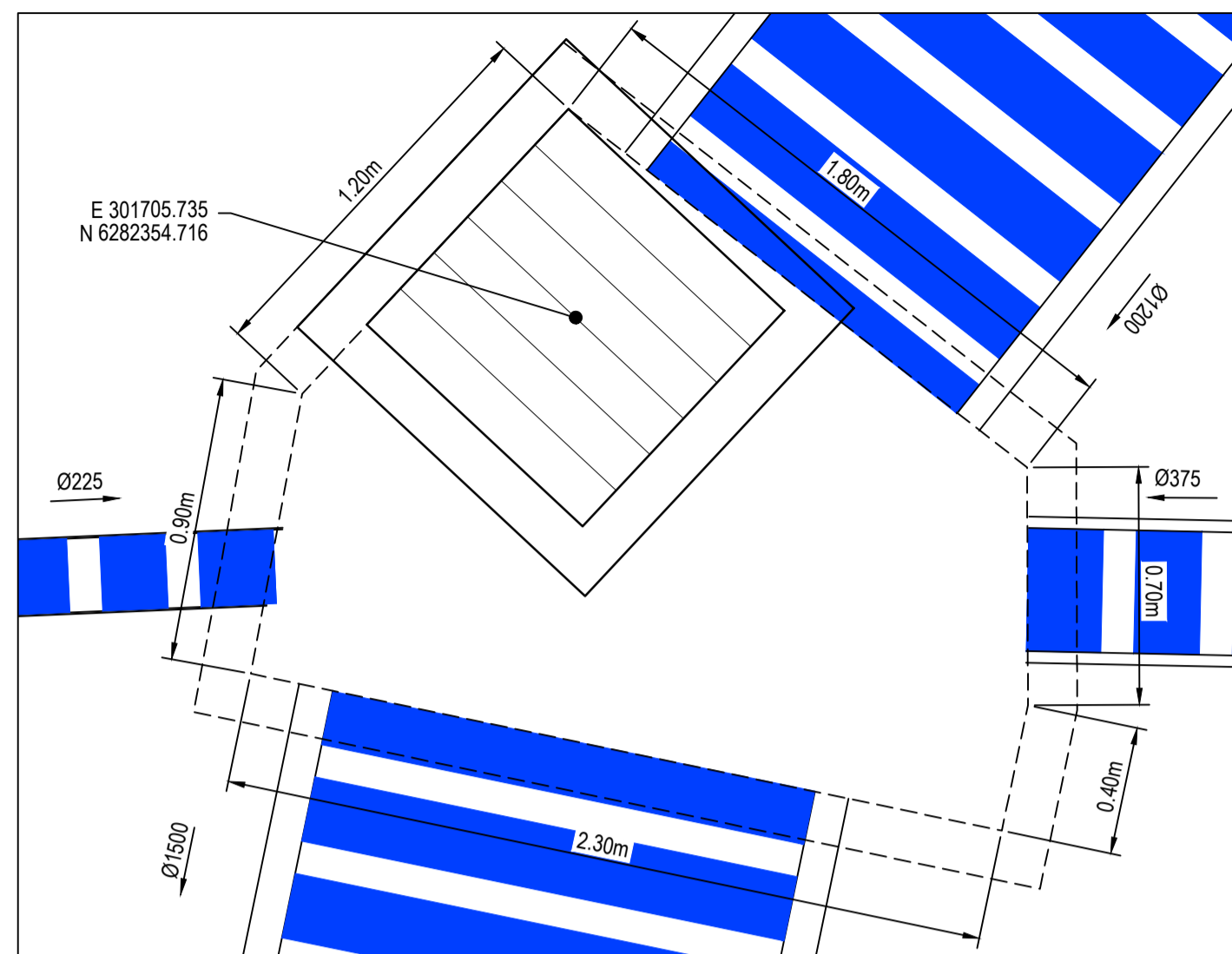
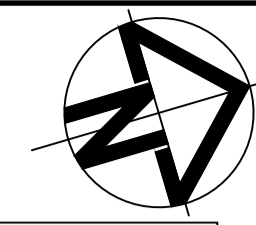
HEADWALL B/05  
DETAIL

Civil Engineers and Project Managers

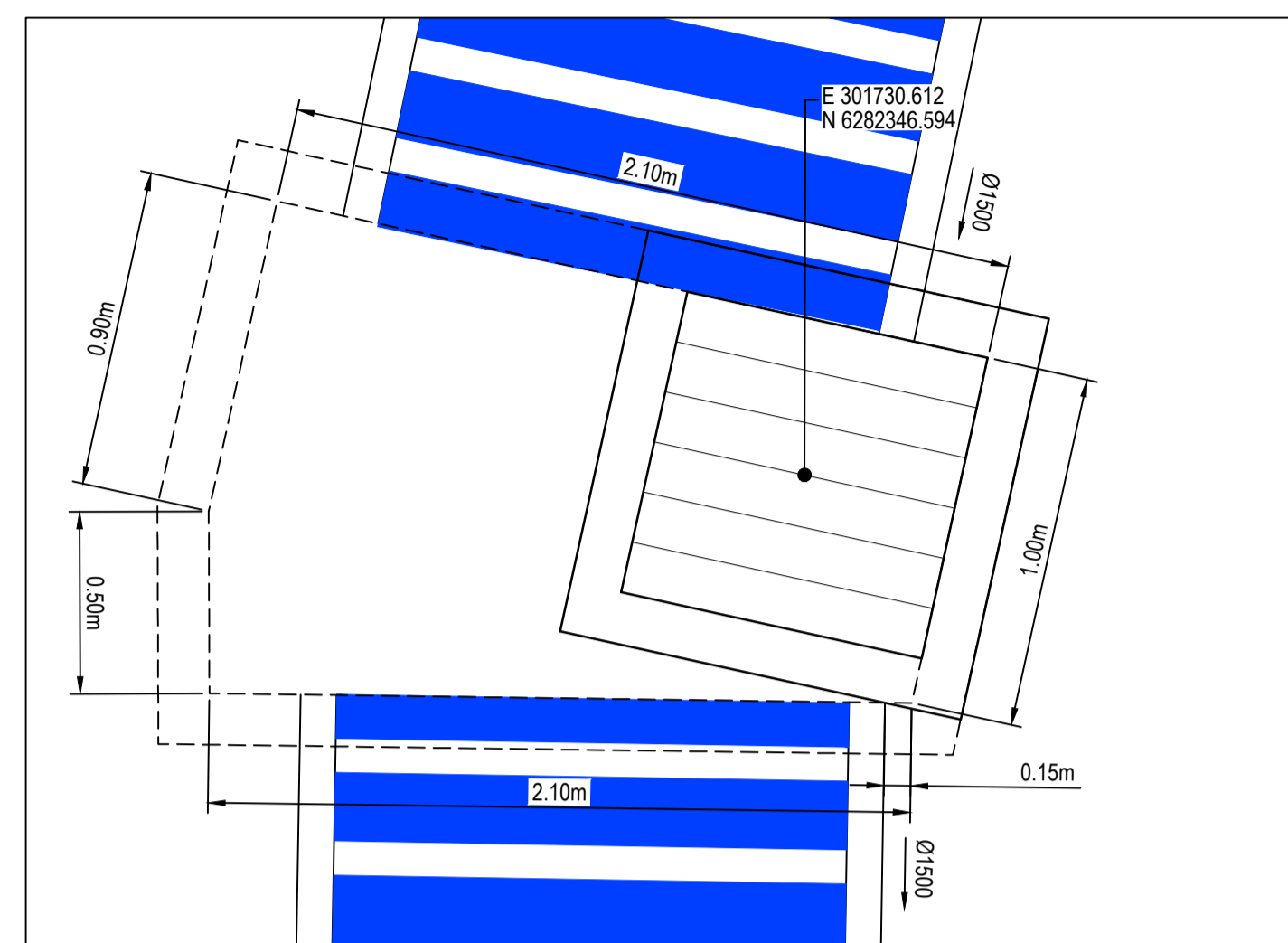
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North Sydney NSW 2060  
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info@atl.net.au

Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0051	Issue
		C

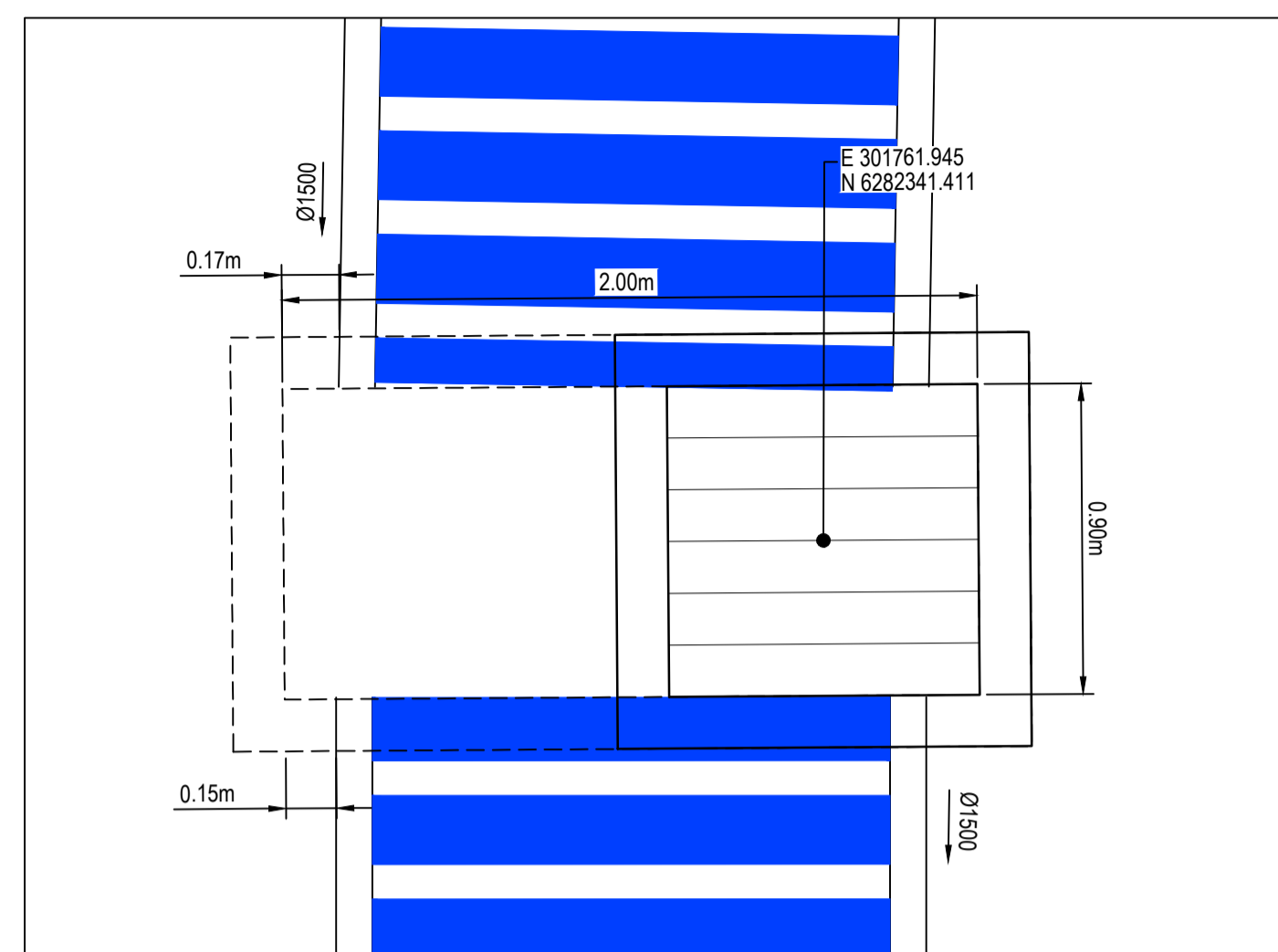




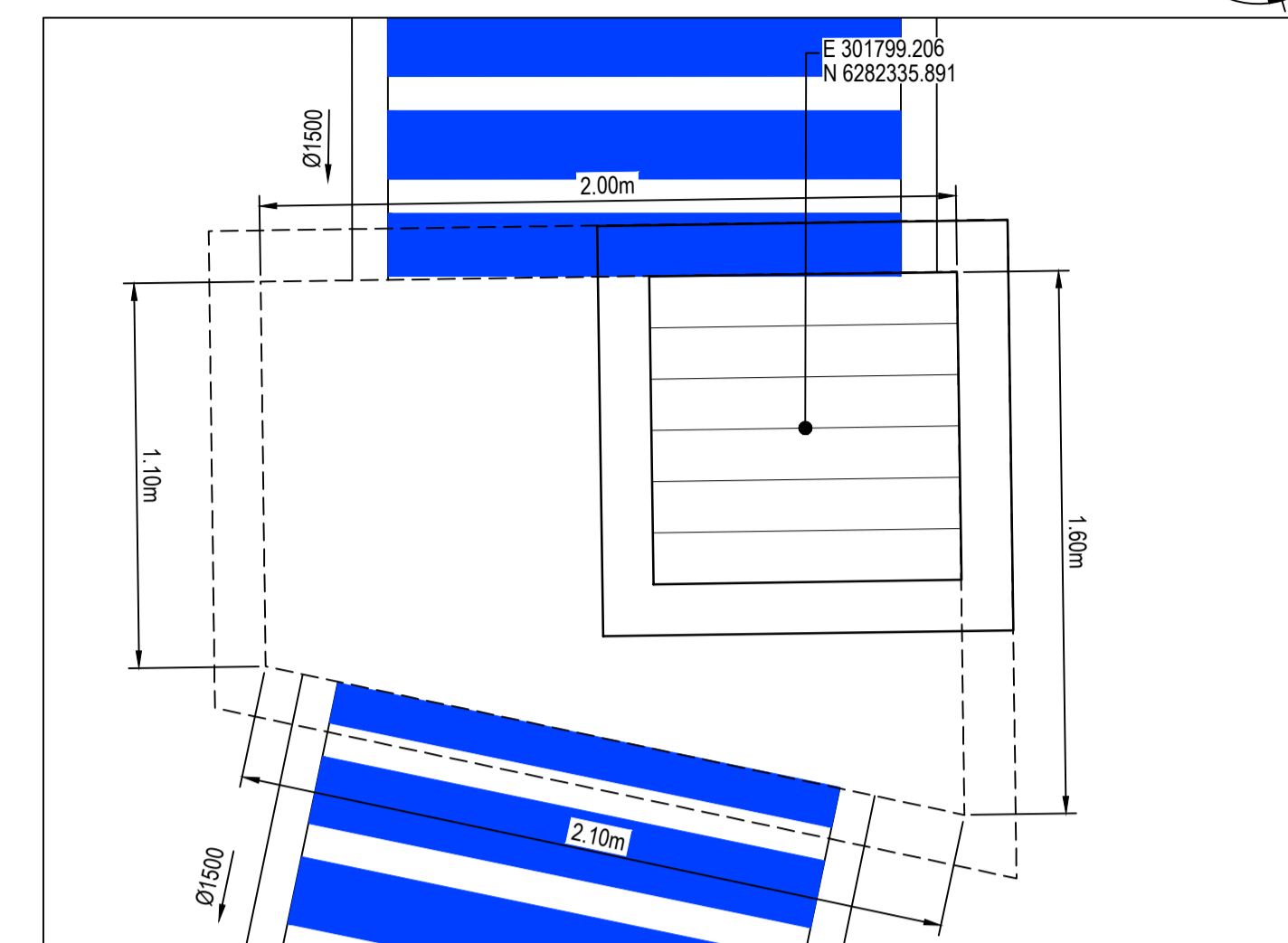
PIT A/02



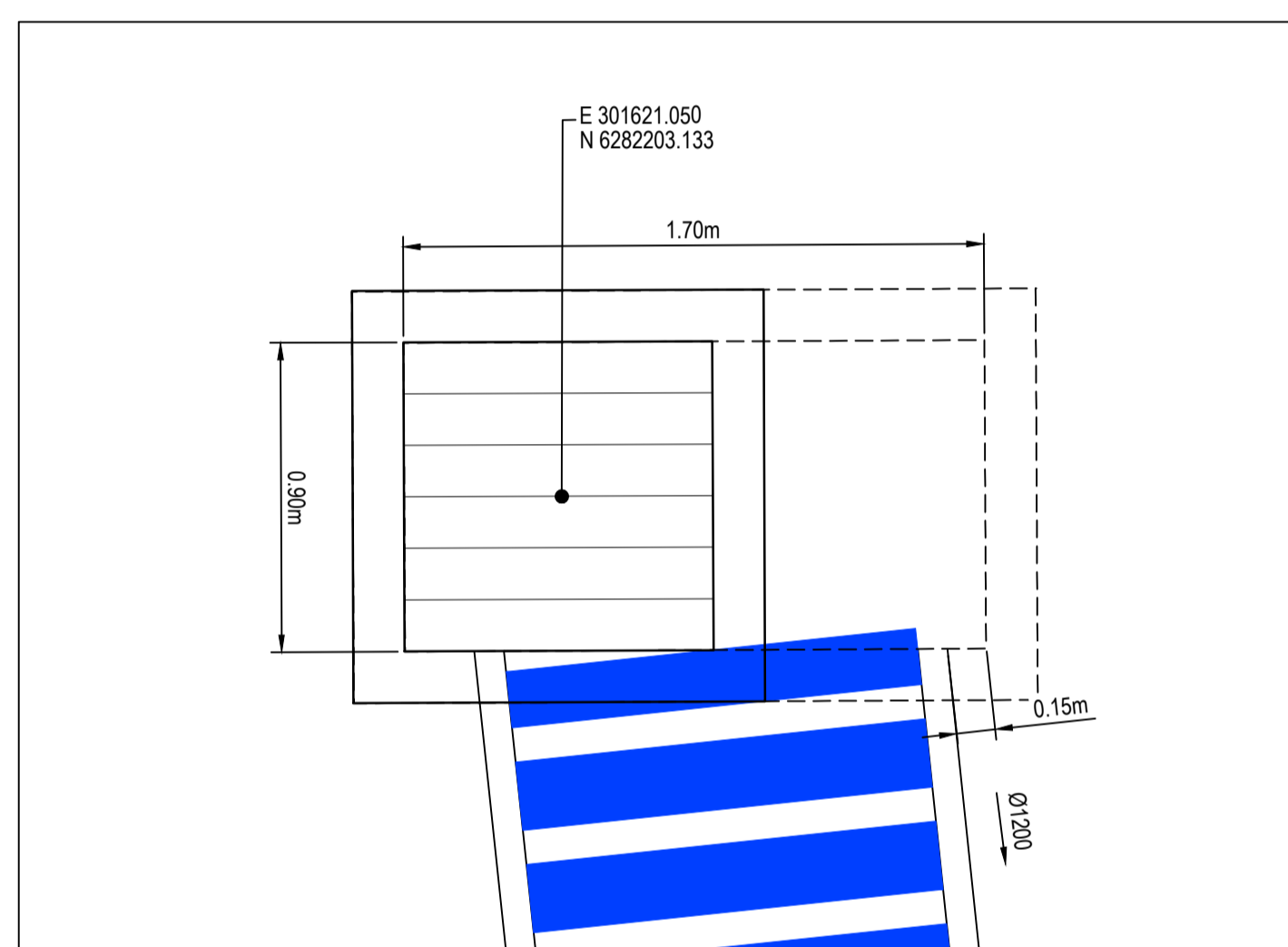
PIT A/03



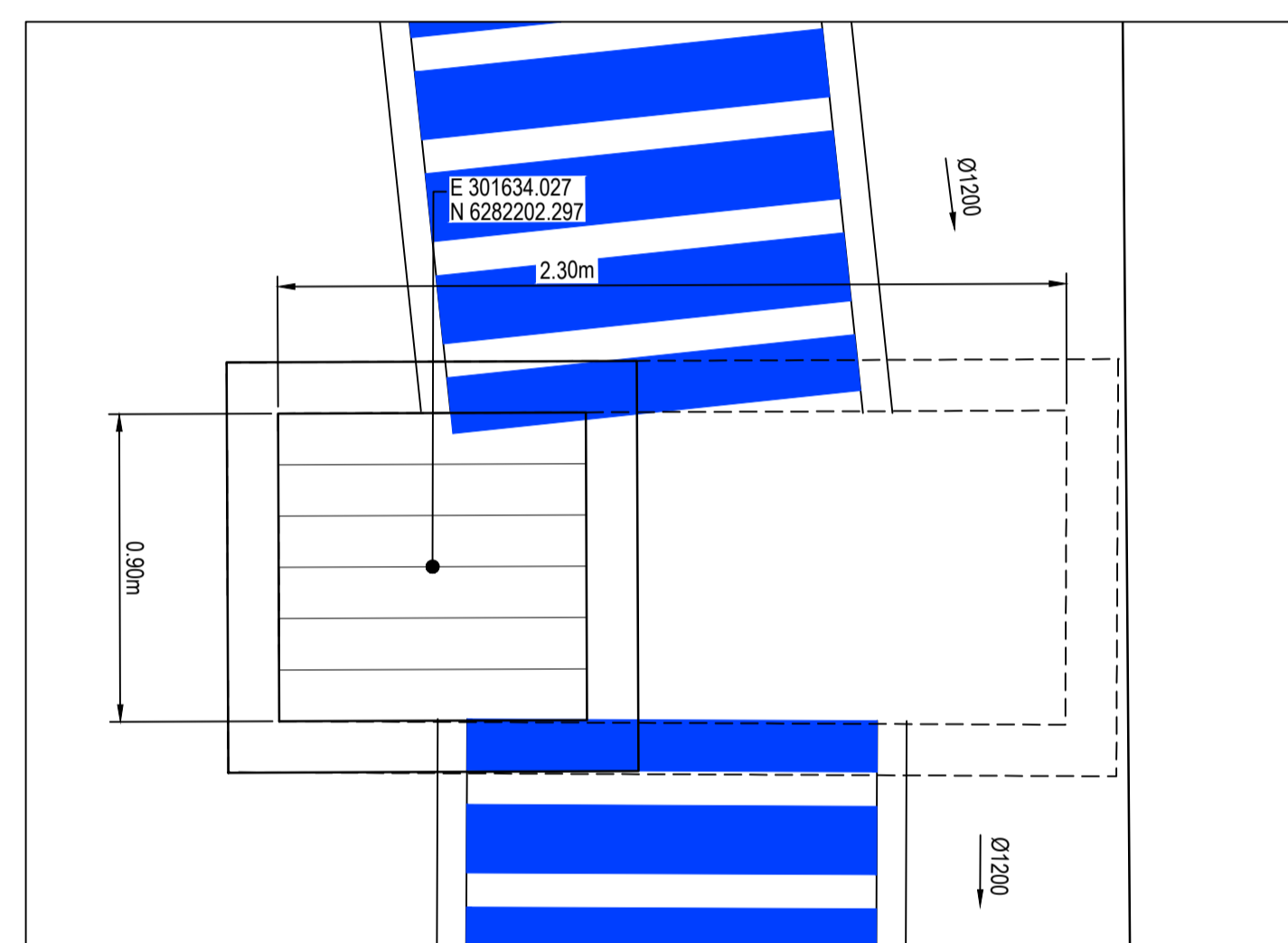
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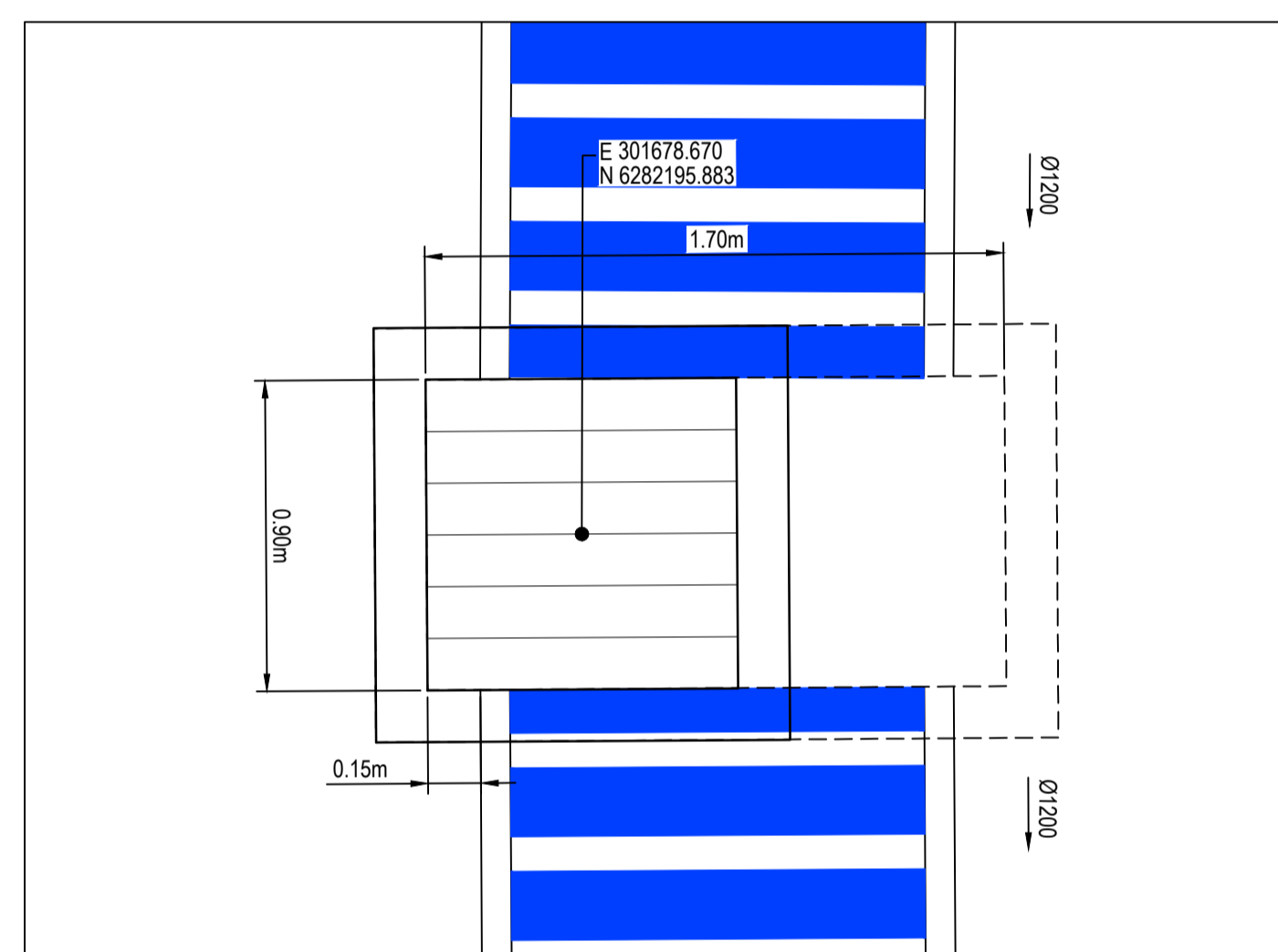
PIT A/05



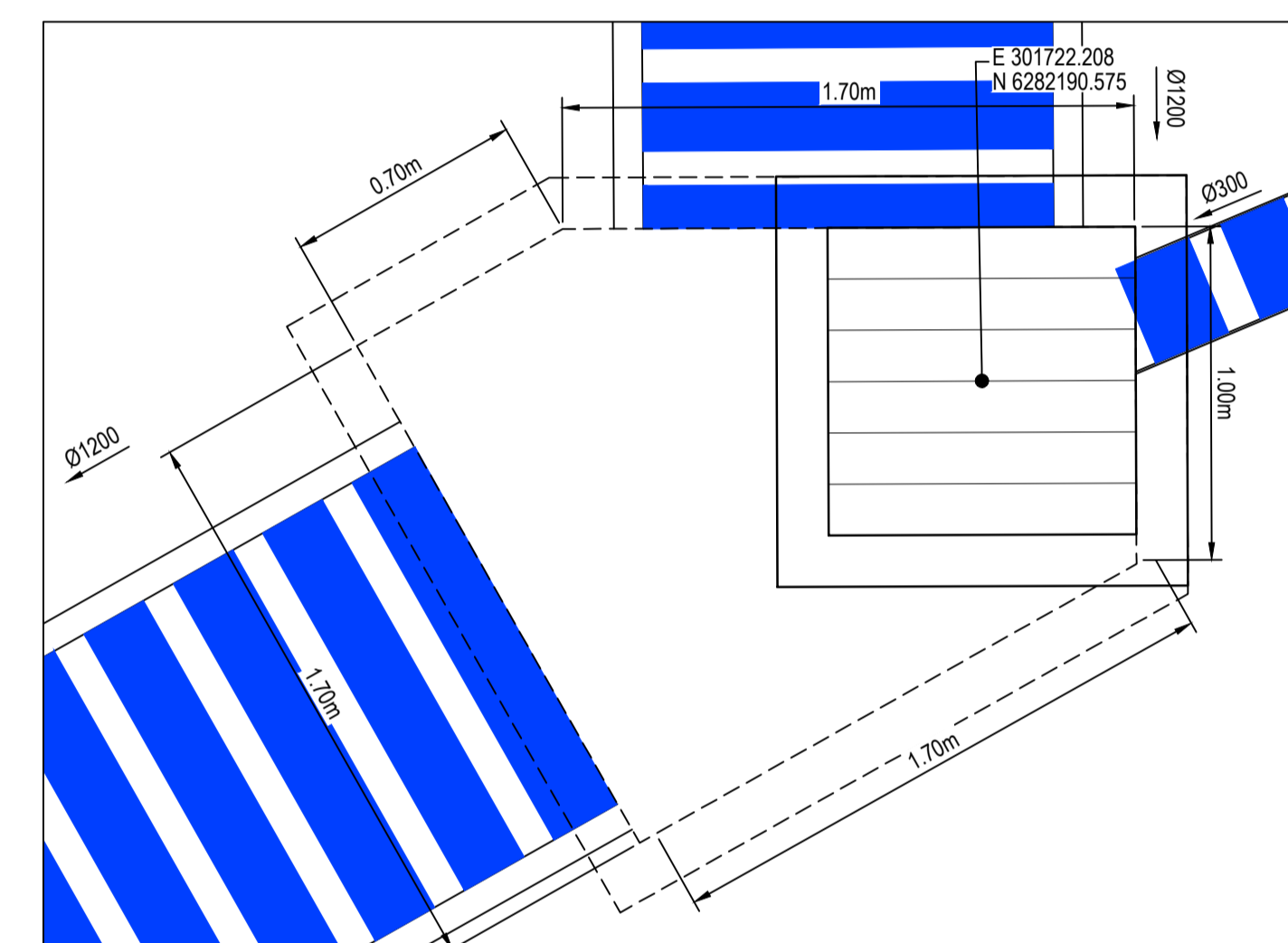
PIT B/01



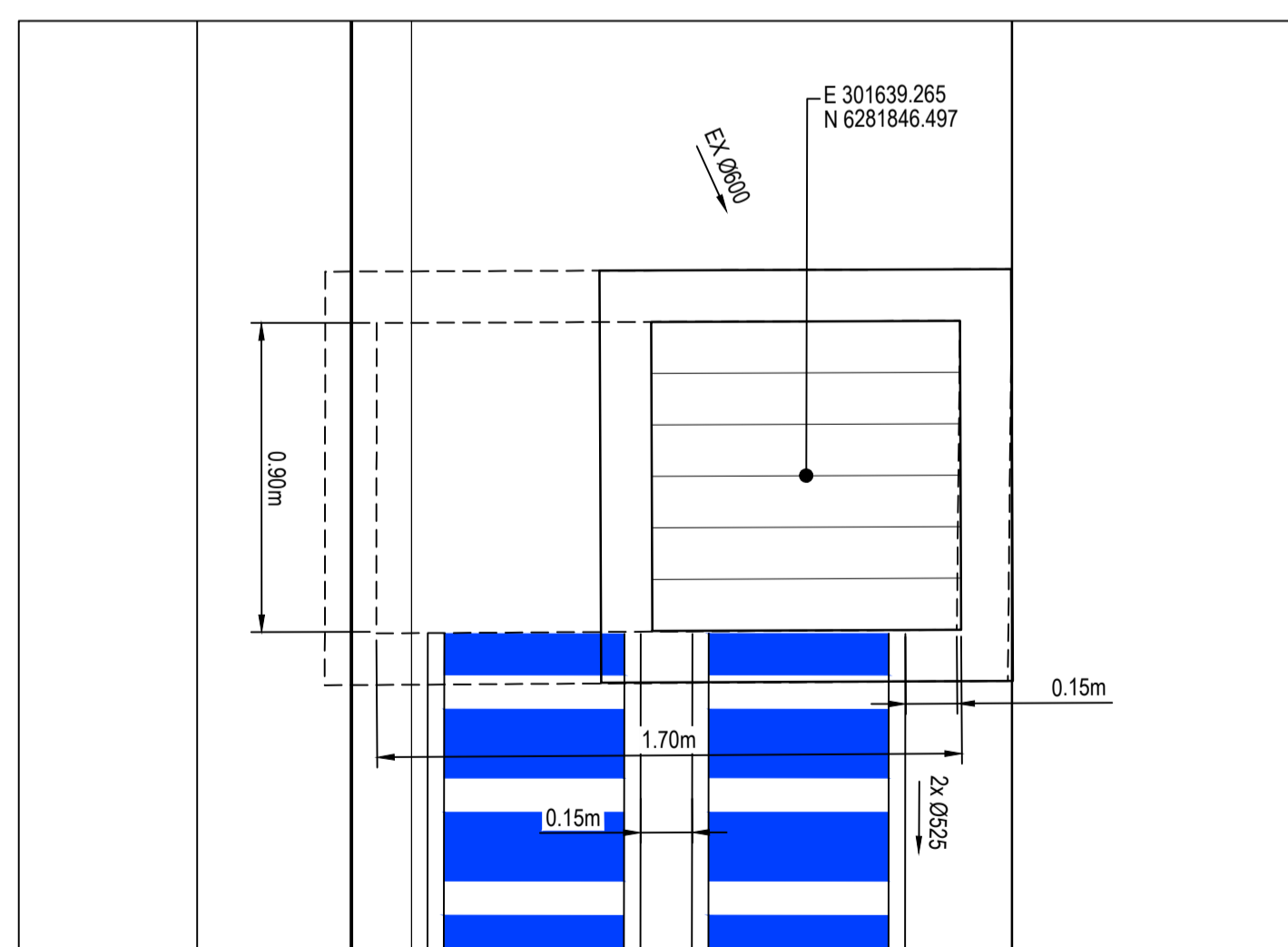
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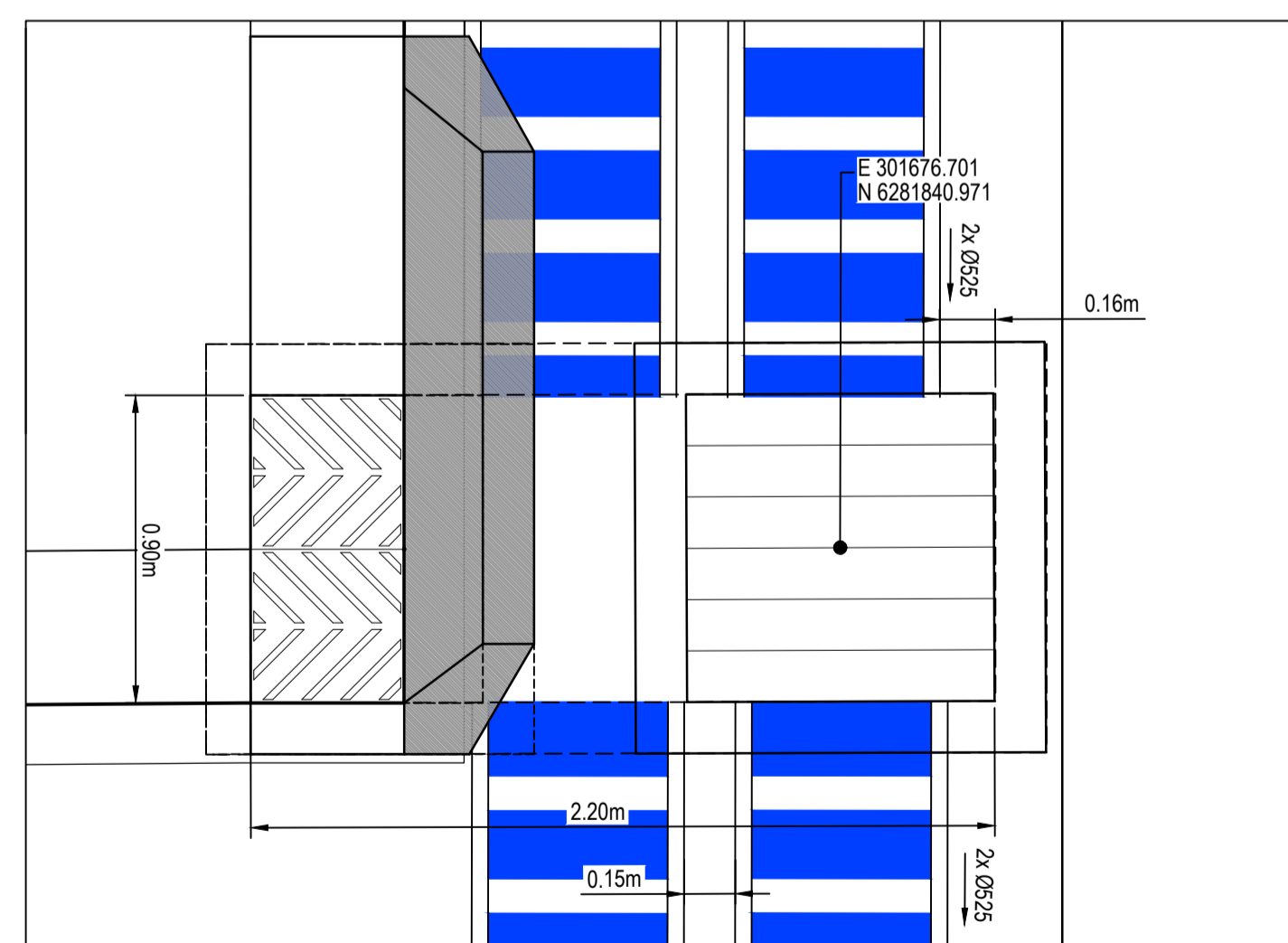
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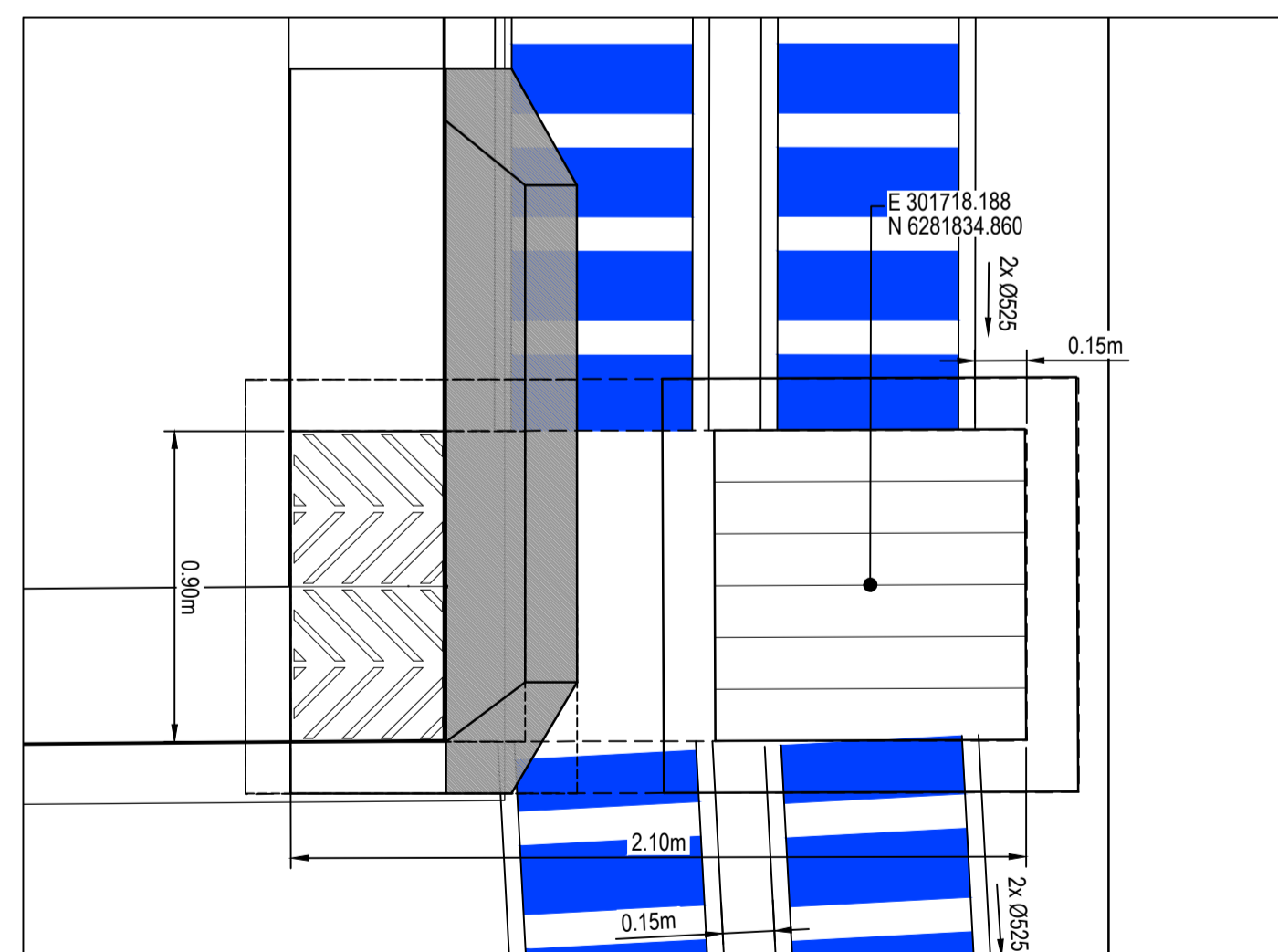
PIT B/04



PIT I/01



PIT I/02

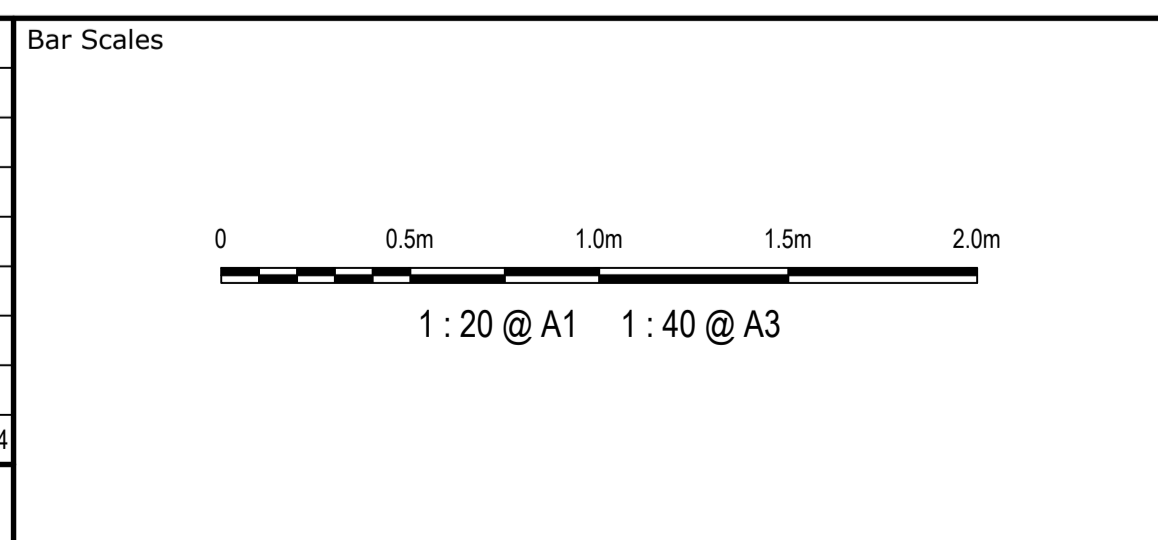


PIT I/03



PIT I/04

Issue	Description	Date
A	FOR TENDER	29-08-2024



Client	
Scales	1:20
Grid	MGA2020
Height Datum	AHD

Drawn	JS
Designed	SM
Checked	SM
Approved	AT

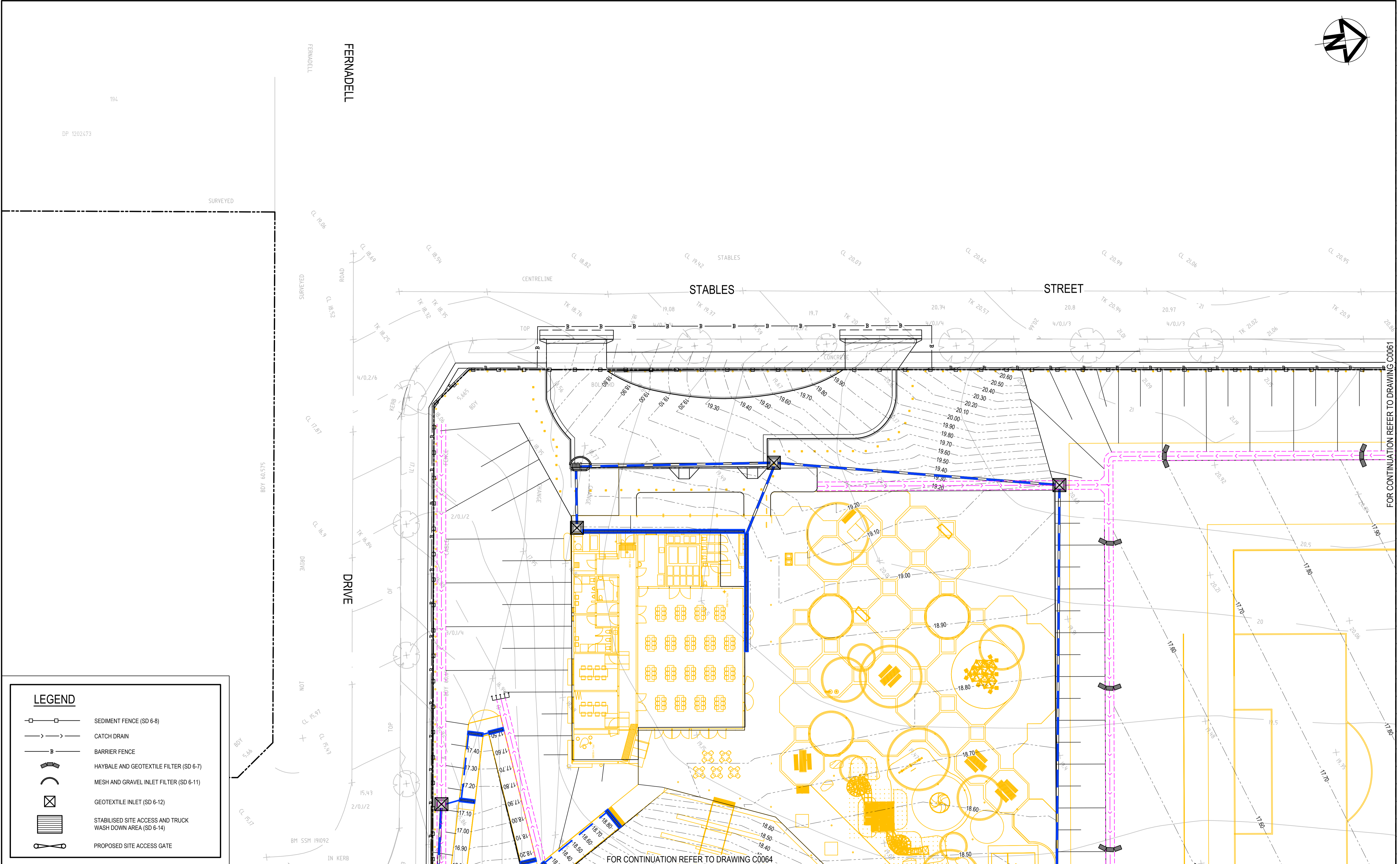
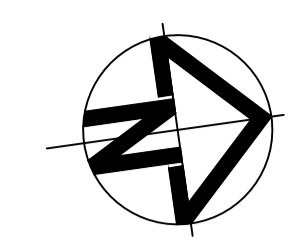
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Project	FERNADELL RESERVE PITT TOWN NSW 2756
Title	CUSTOM PIT SETOUT

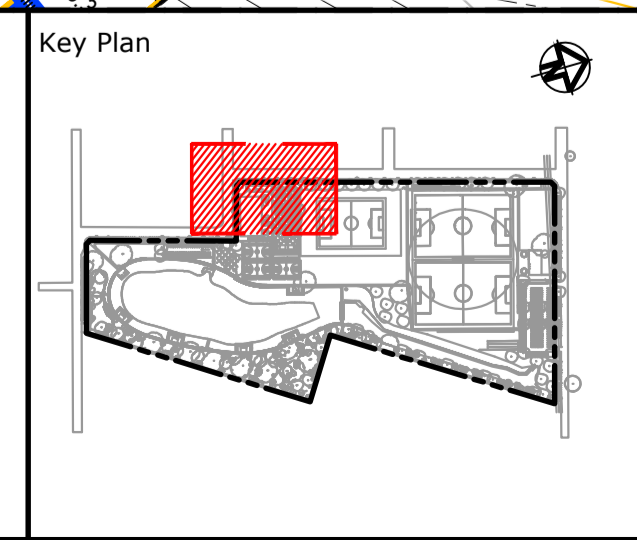
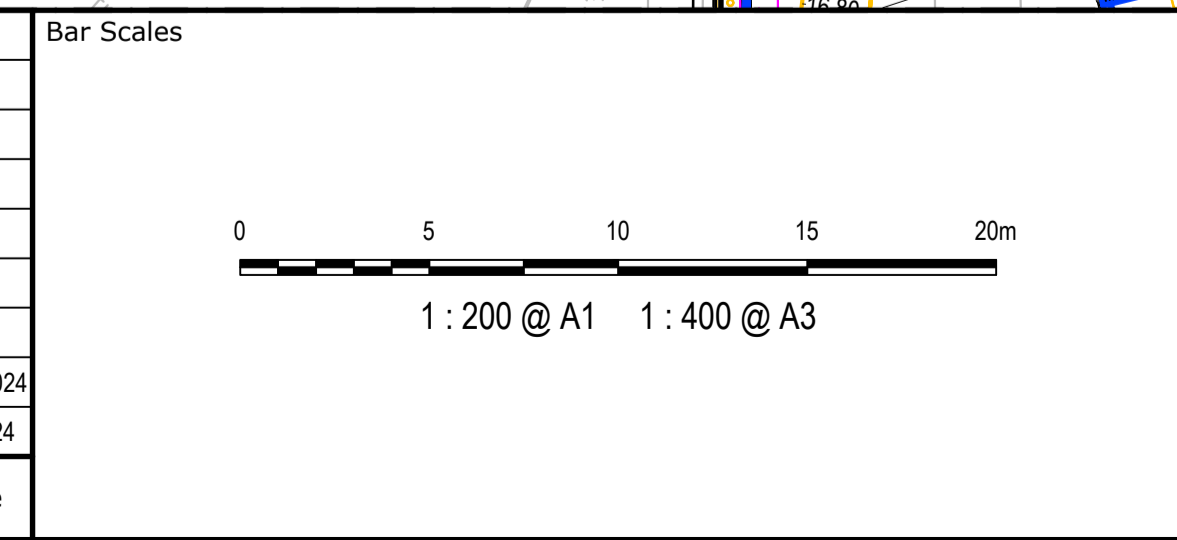
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	23-1123-C0055
Issue	A





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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200
Grid	MGA2020
Height Datum	AHD
Drawn	JS
Designed	SM
Checked	SM
Approved	AT

Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

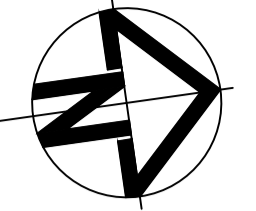
Title  
**EROSION AND SEDIMENT  
 CONTROL PLAN  
 SHEET 1**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
 North Sydney NSW 2060  
 ABN 96 130 882 405  
 Tel: 02 9439 1777  
 Fax: 02 9923 1055  
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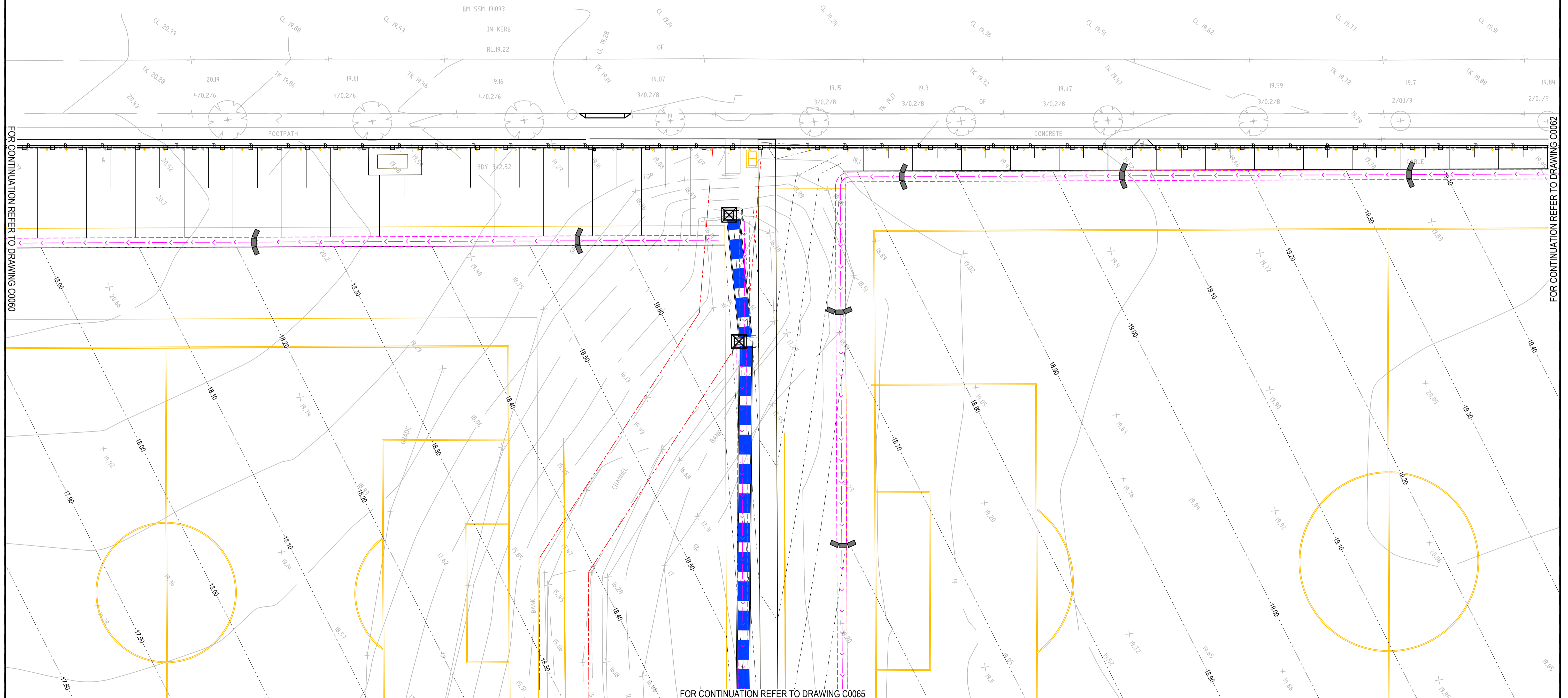
Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0060</b>	Issue
		<b>B</b>



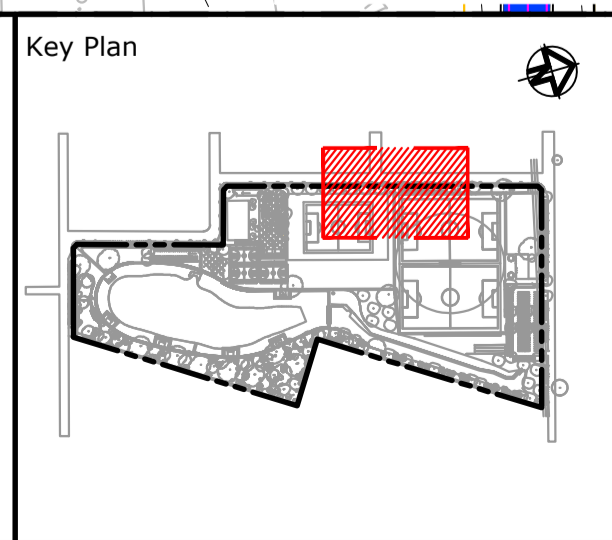
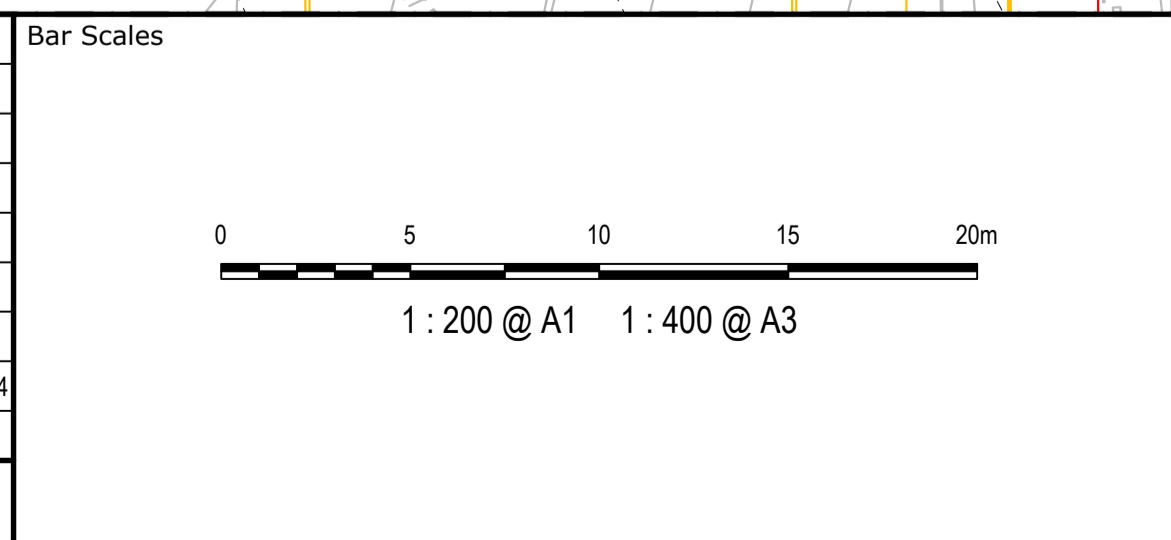


**LEGEND**

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



Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 2**

Civil Engineers and Project Managers

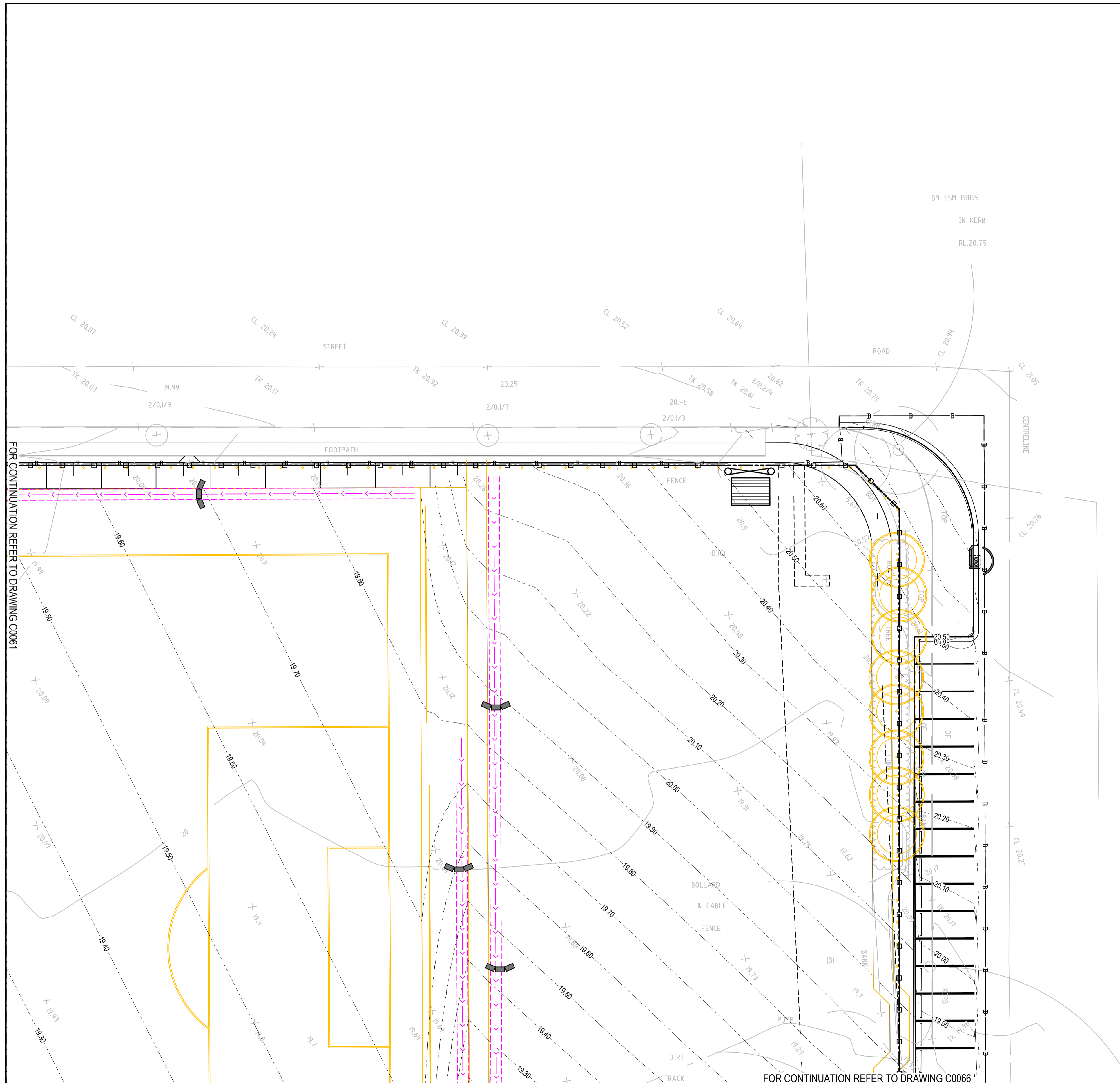
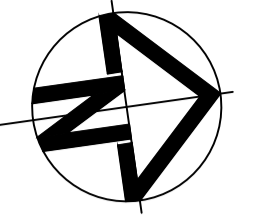
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Fax: 02 9923 1055  
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Status  
**FOR TENDER  
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.  
**23-1123-C0061**

A1	Issue
B	Issue



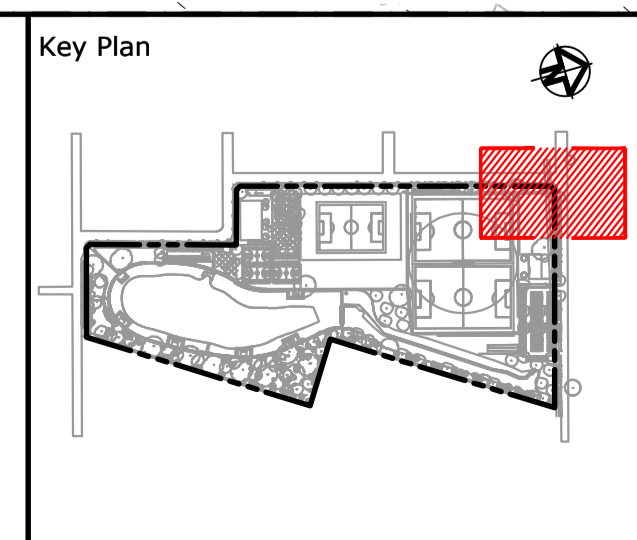
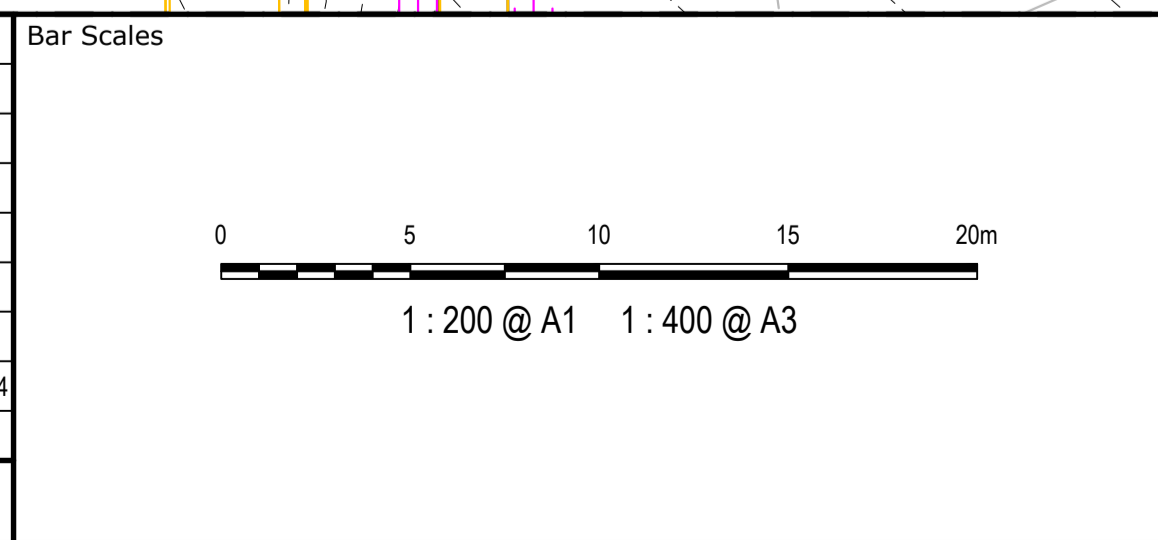


FOR CONTINUATION REFER TO DRAWING C0061

FOR CONTINUATION REFER TO DRAWING C0066

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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scale	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

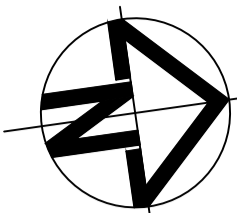
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 3**

Civil Engineers and Project Managers

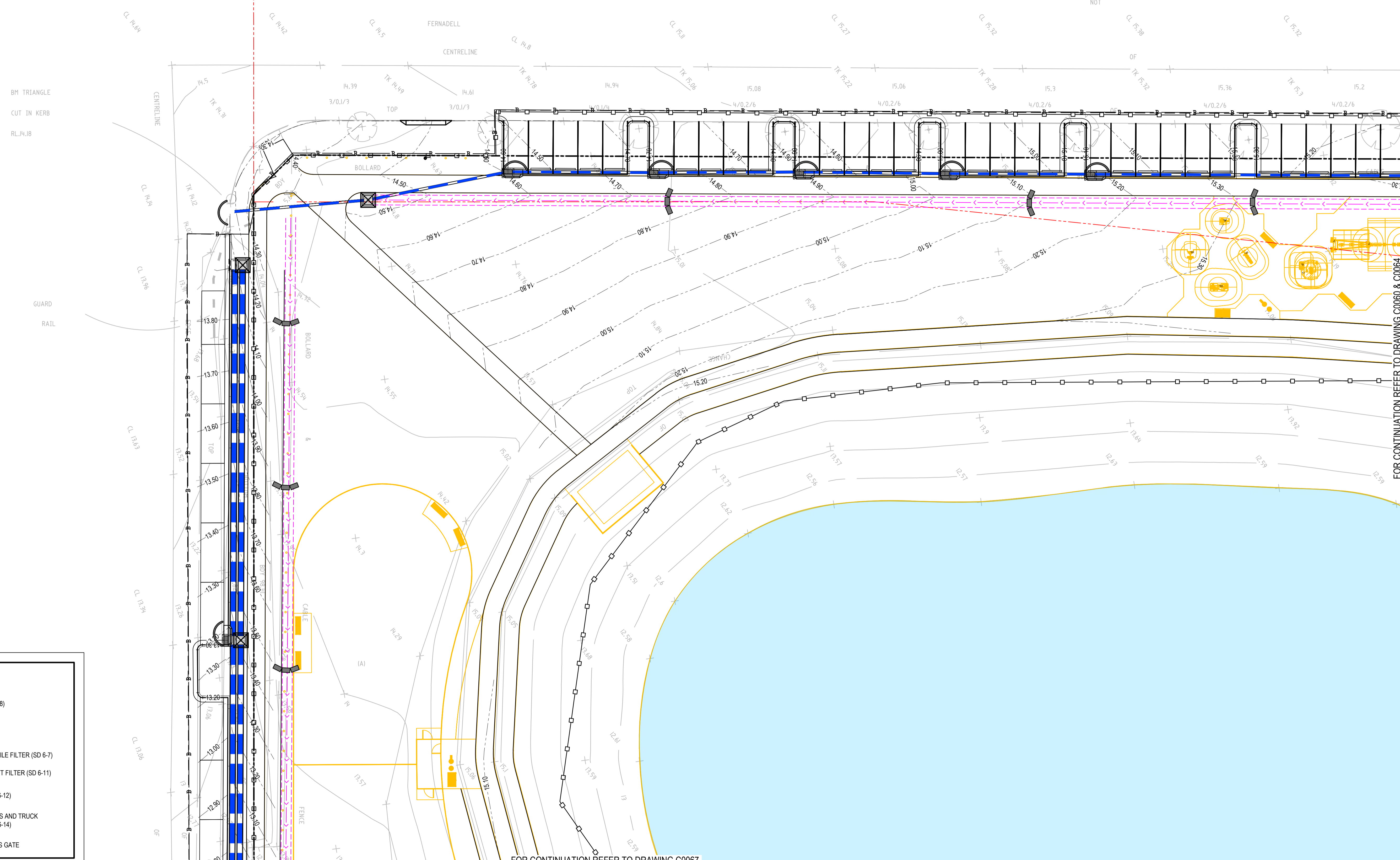
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status	FOR TENDER NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	23-1123-C0062	Issue
		B





BDY 62.565

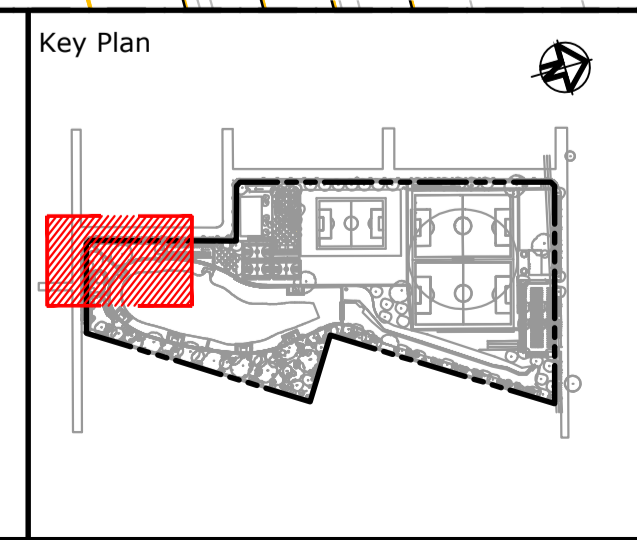
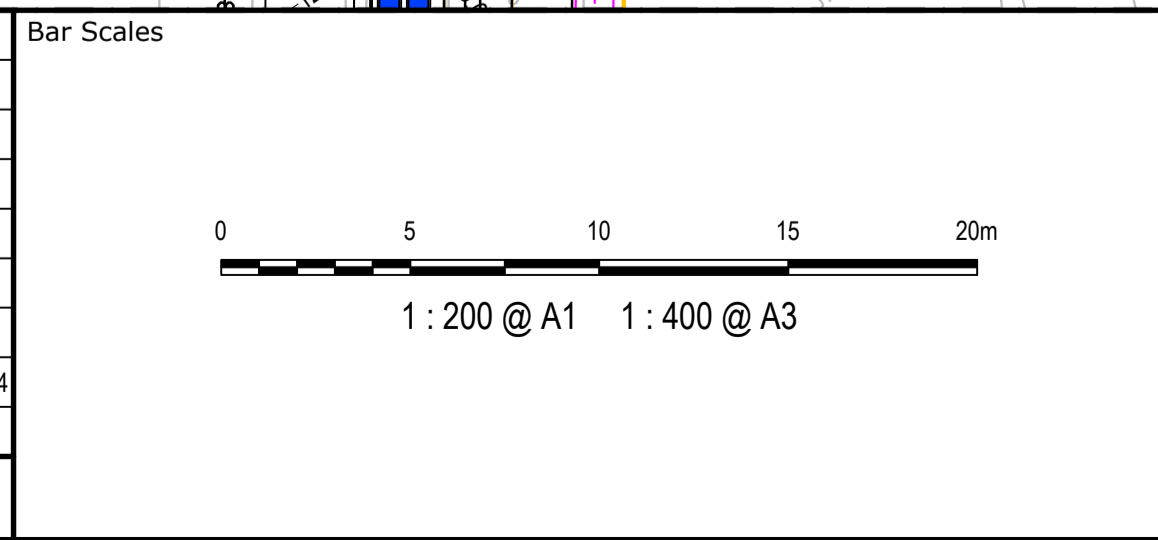


FOR CONTINUATION REFER TO DRAWING C0060 & C0064

FOR CONTINUATION REFER TO DRAWING C0067

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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

GDA2020

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

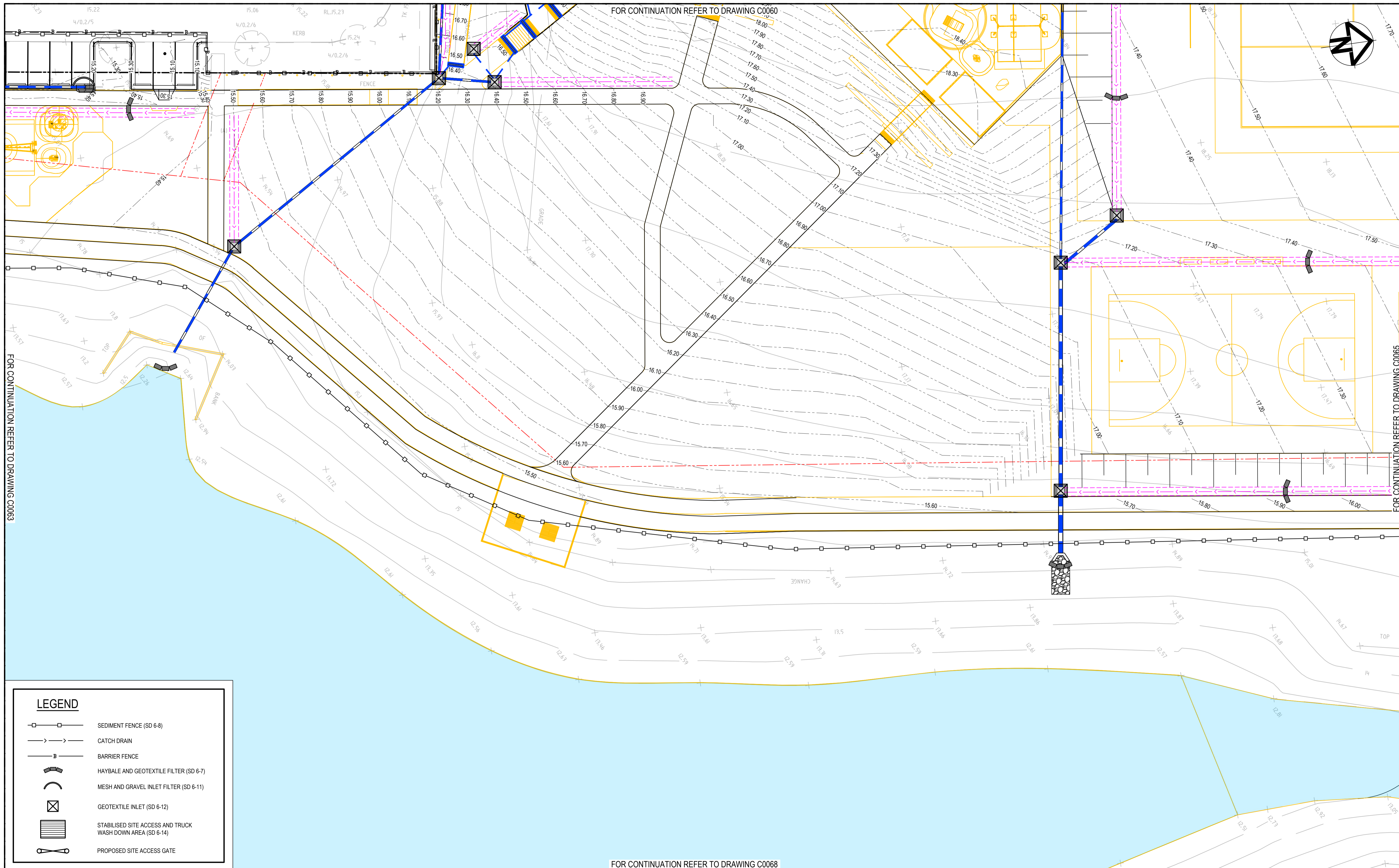
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 4**

Civil Engineers and Project Managers

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ABN 96 130 882 405  
Tel: 02 9439 1777  
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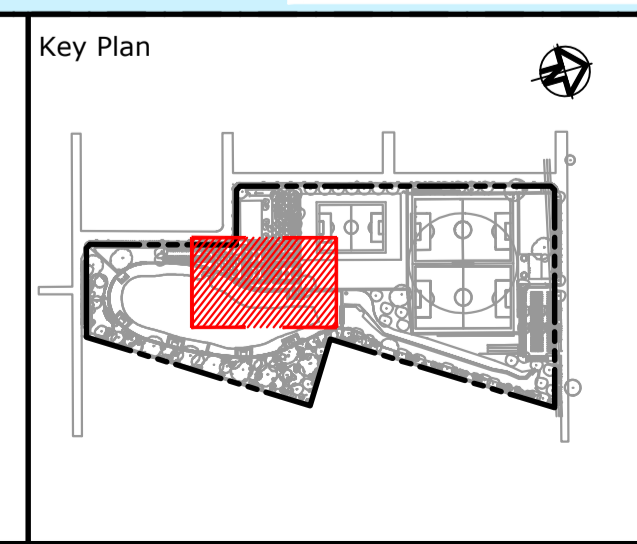
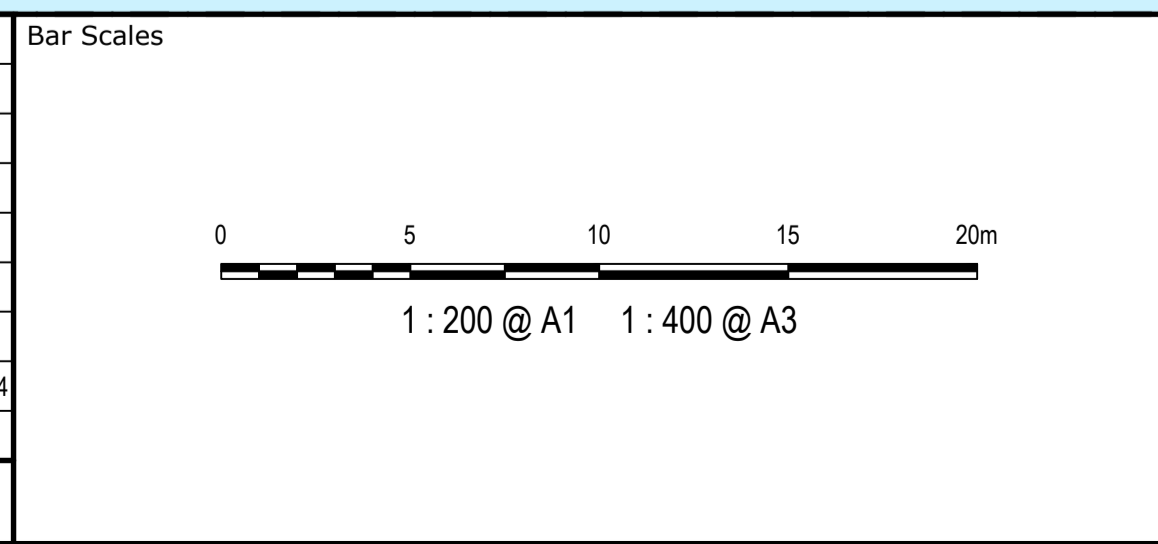
Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	23-1123-C0063	Issue
		B





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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

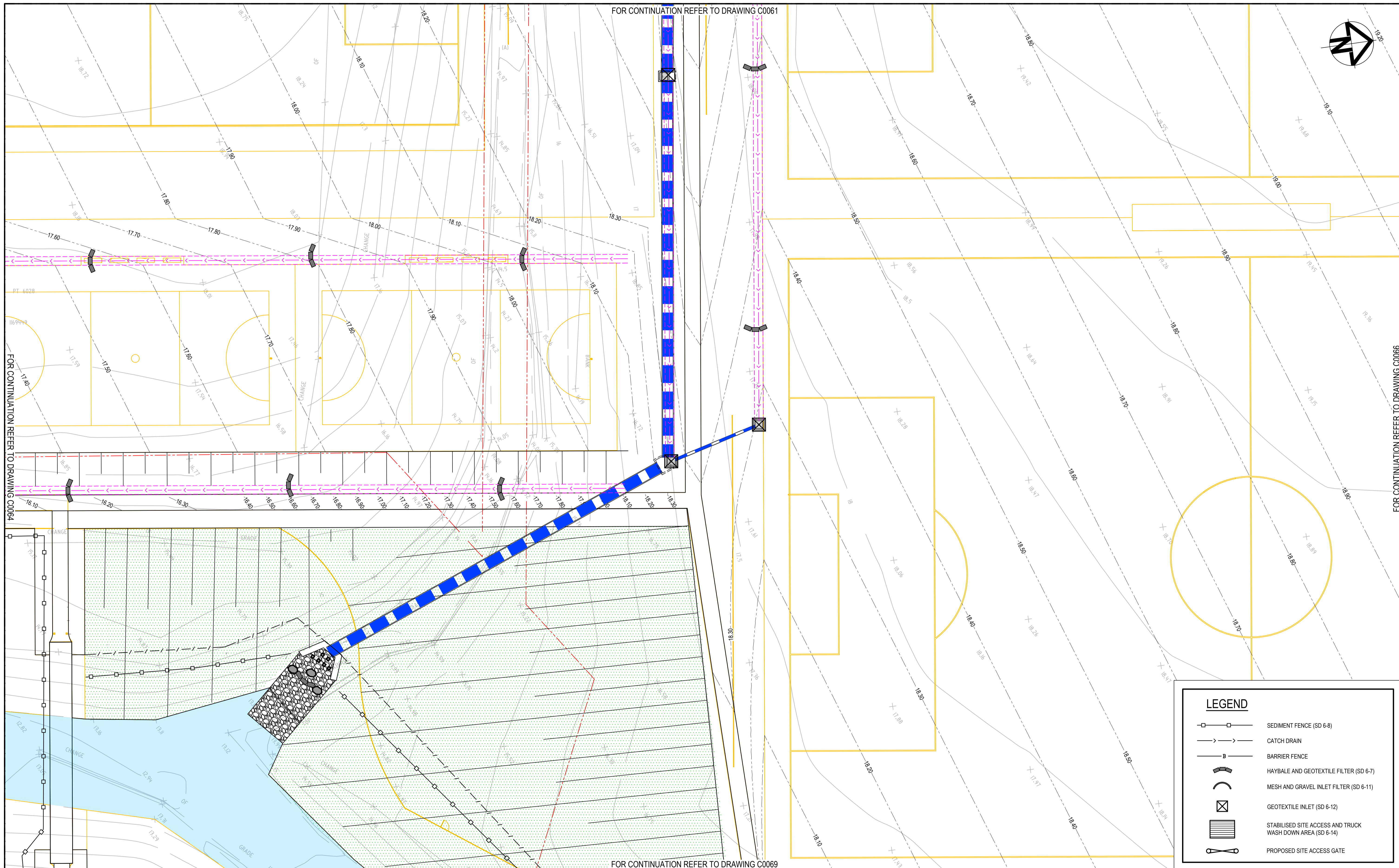
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 5**

Civil Engineers and Project Managers

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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0064</b>	Issue
		<b>B</b>





FOR CONTINUATION REFER TO DRAWING C0061

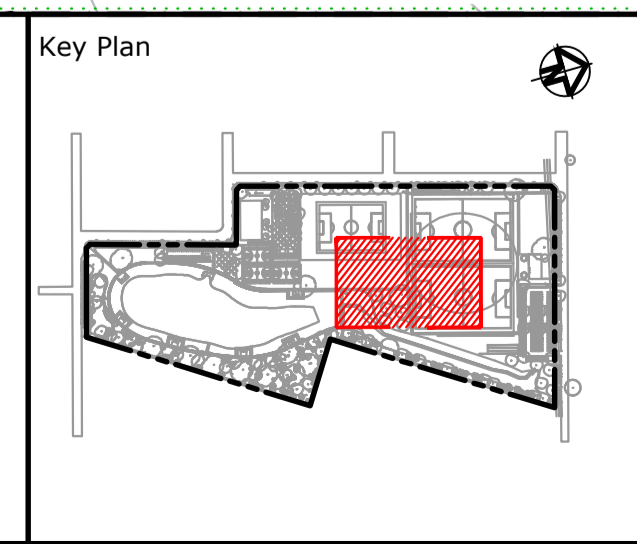
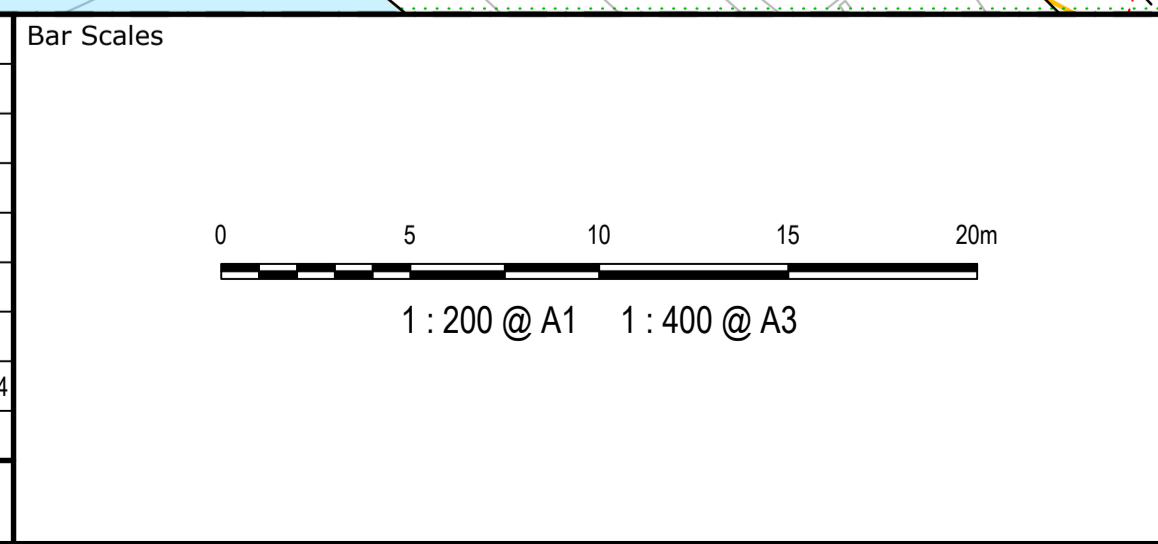
FOR CONTINUATION REFER TO DRAWING C0064

FOR CONTINUATION REFER TO DRAWING C0066

FOR CONTINUATION REFER TO DRAWING C0069

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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

GDA2020

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Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

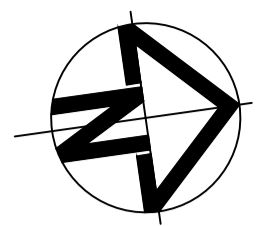
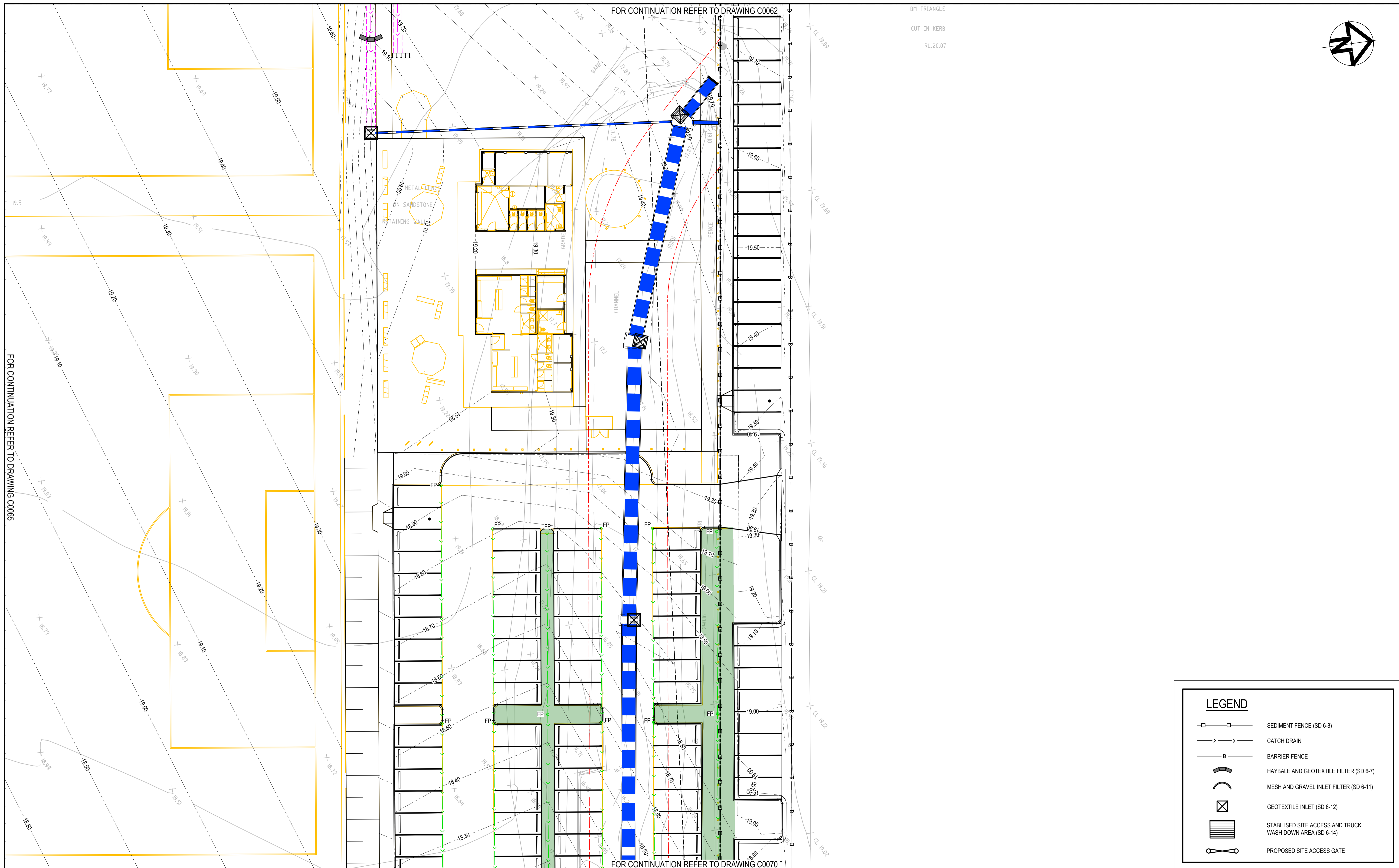
Title  
**EROSION AND SEDIMENT  
 CONTROL PLAN  
 SHEET 6**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
 North Sydney NSW 2060  
 ABN 96 130 882 405  
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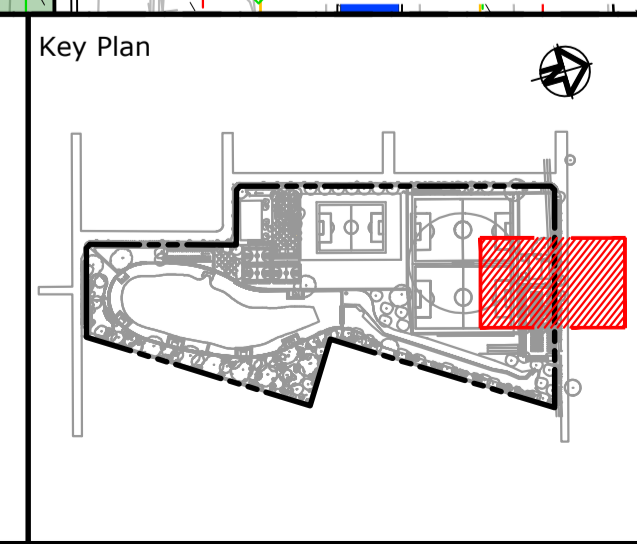
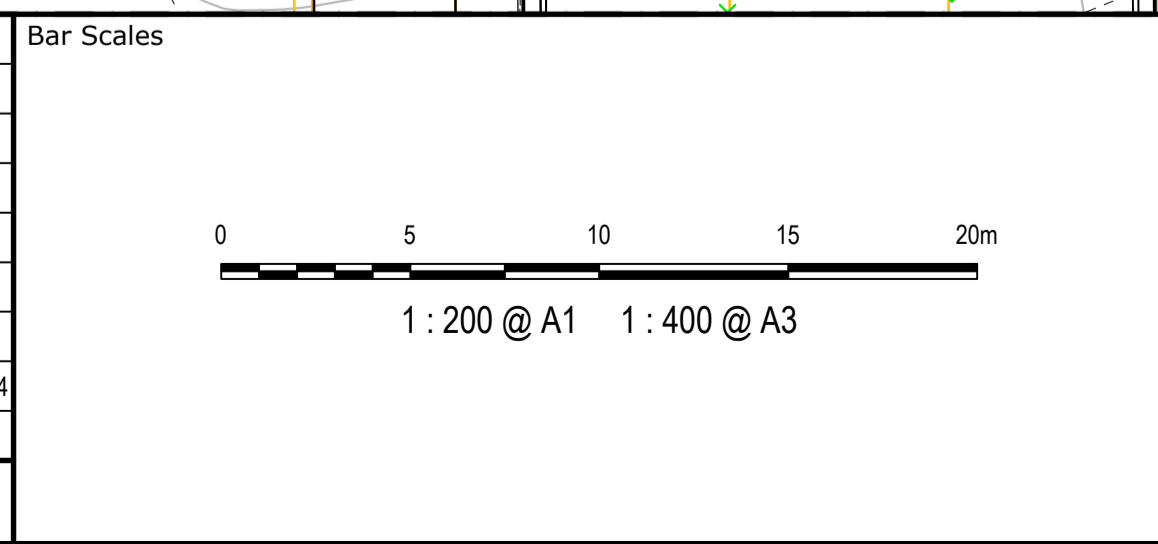
Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0065</b>	Issue
		<b>B</b>





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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT

GDA2020

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Project  
**FERNADELL RESERVE  
 PITT TOWN  
 NSW 2756**

Title  
**EROSION AND SEDIMENT  
 CONTROL PLAN  
 SHEET 7**

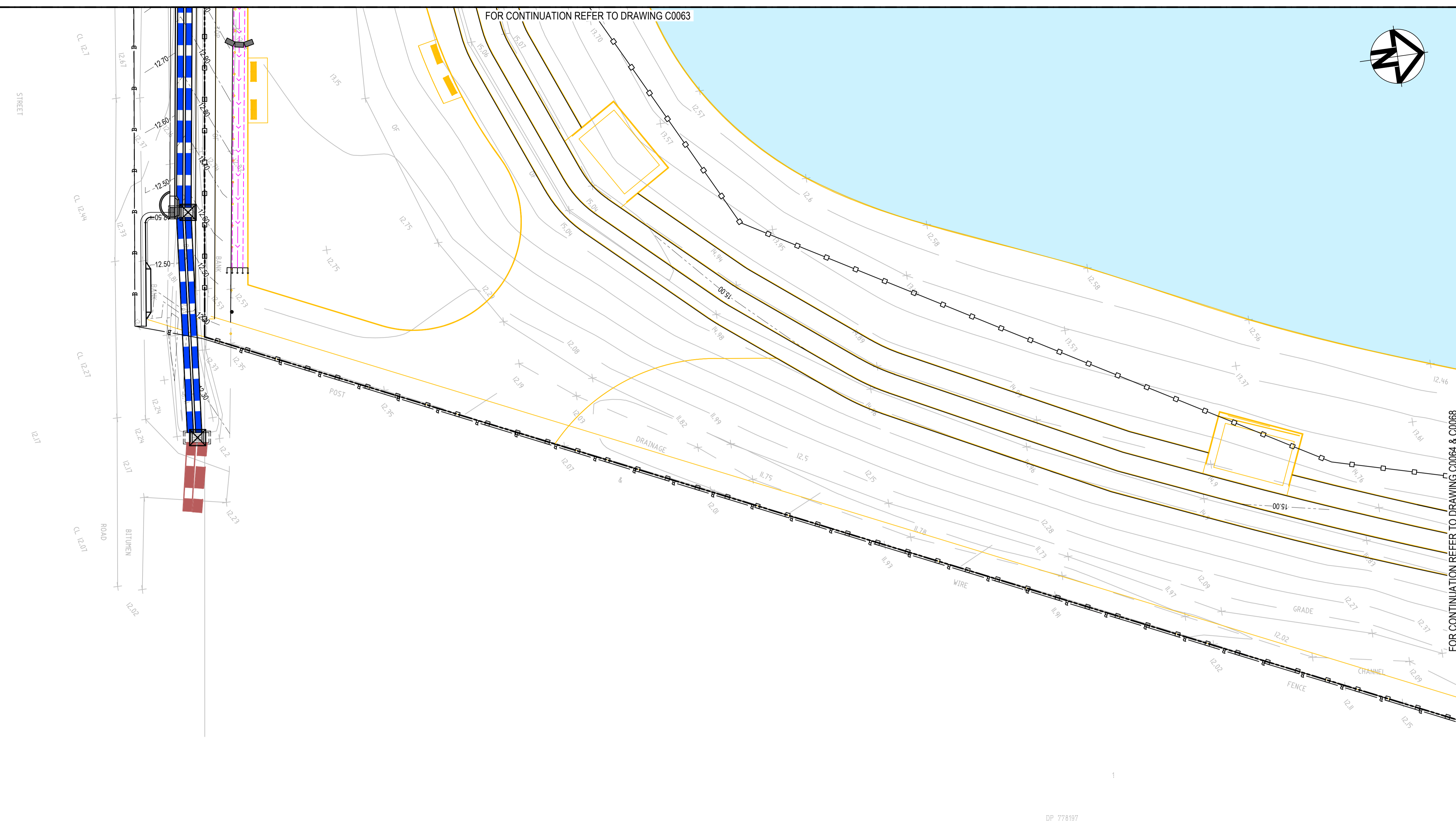
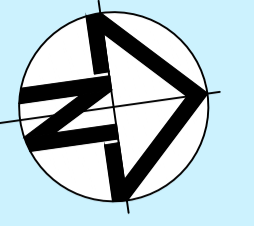
Civil Engineers and Project Managers

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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0066</b>	Issue
		<b>B</b>



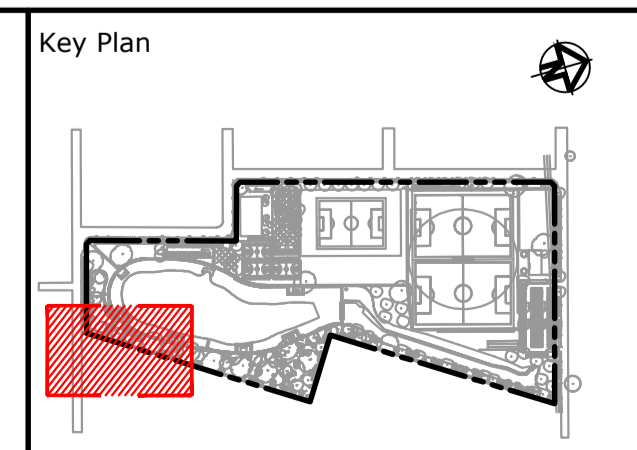
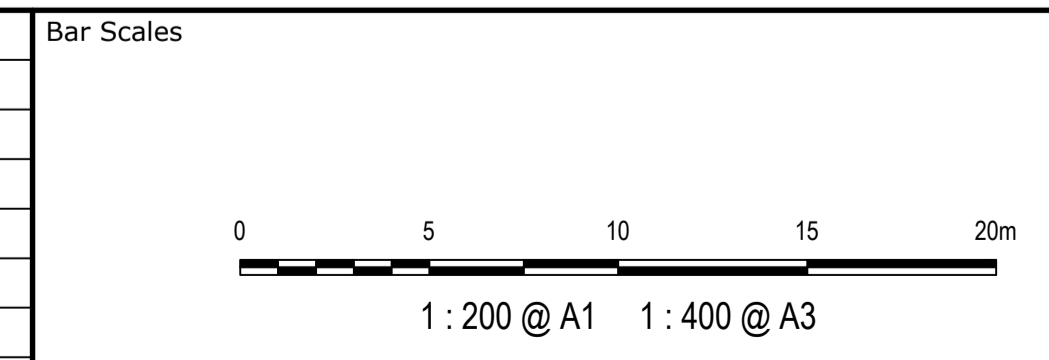
FOR CONTINUATION REFER TO DRAWING C0063



FOR CONTINUATION REFER TO DRAWING C0064 & C0068

**LEGEND**

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- HAYBALE AND GEOTEXTILE 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



Scales 1:200	Drawn	JS
	Designed	SM
	Checked	SM
Grid MGA2020	Approved	AT
Height Datum AHD		

**GDA2020**

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Project  
**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title  
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 8**

Civil Engineers and Project Managers

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Status <b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No. <b>23-1123-C0067</b>	Issue B

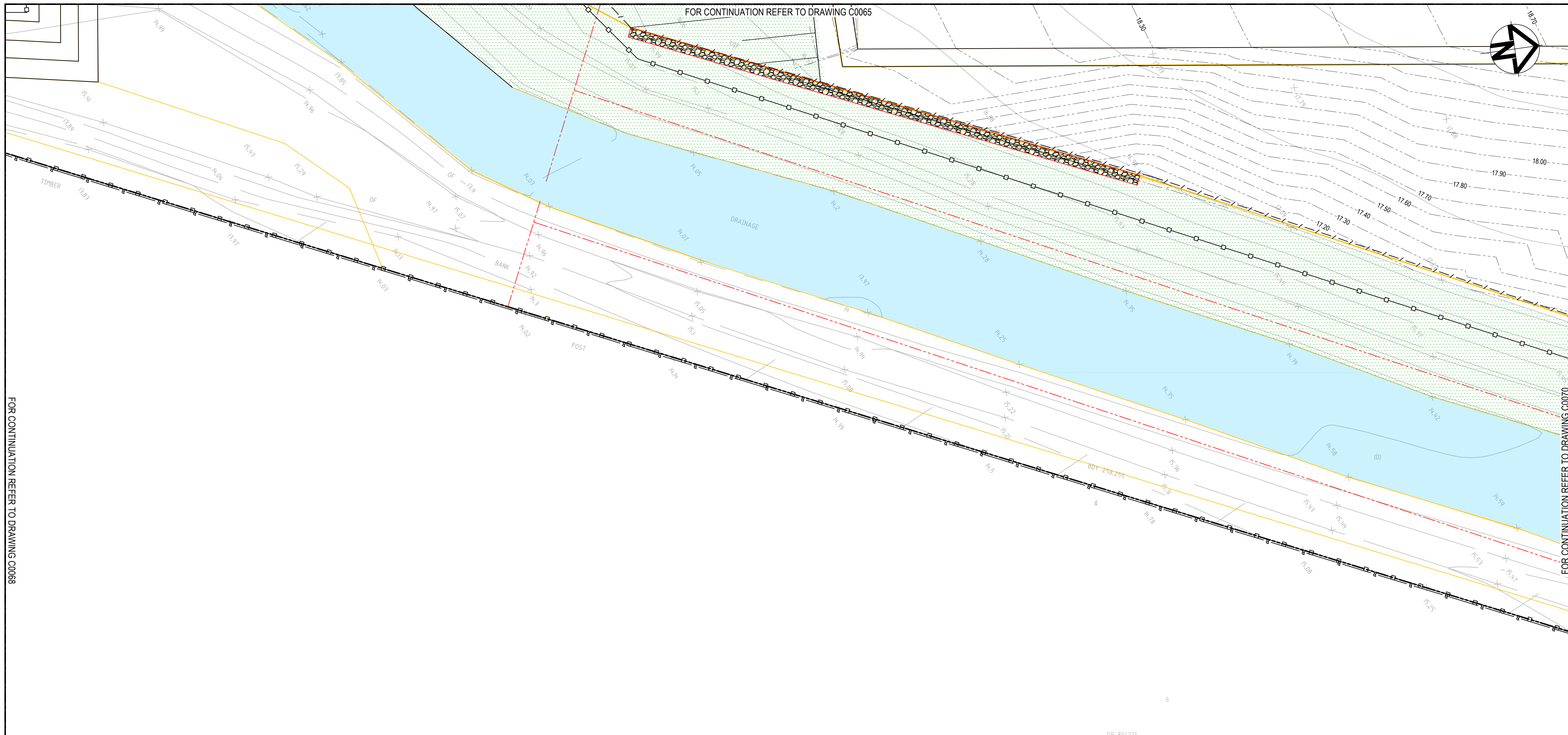
Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24

100mm on Original

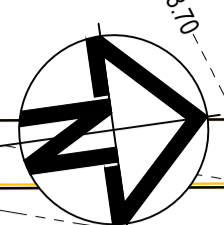








FOR CONTINUATION REFER TO DRAWING C0065

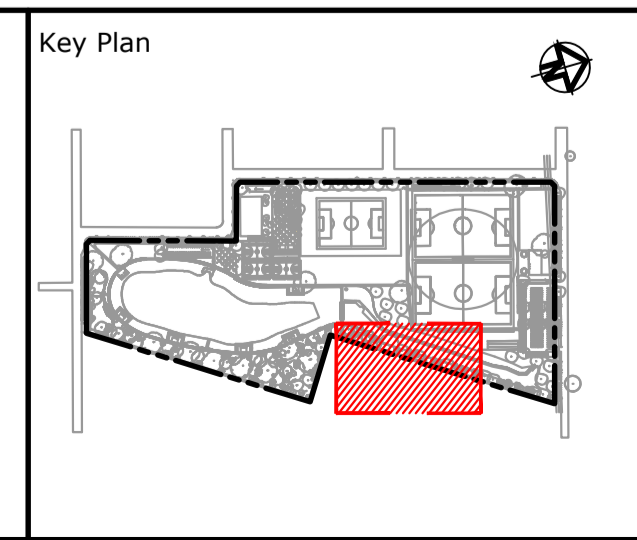
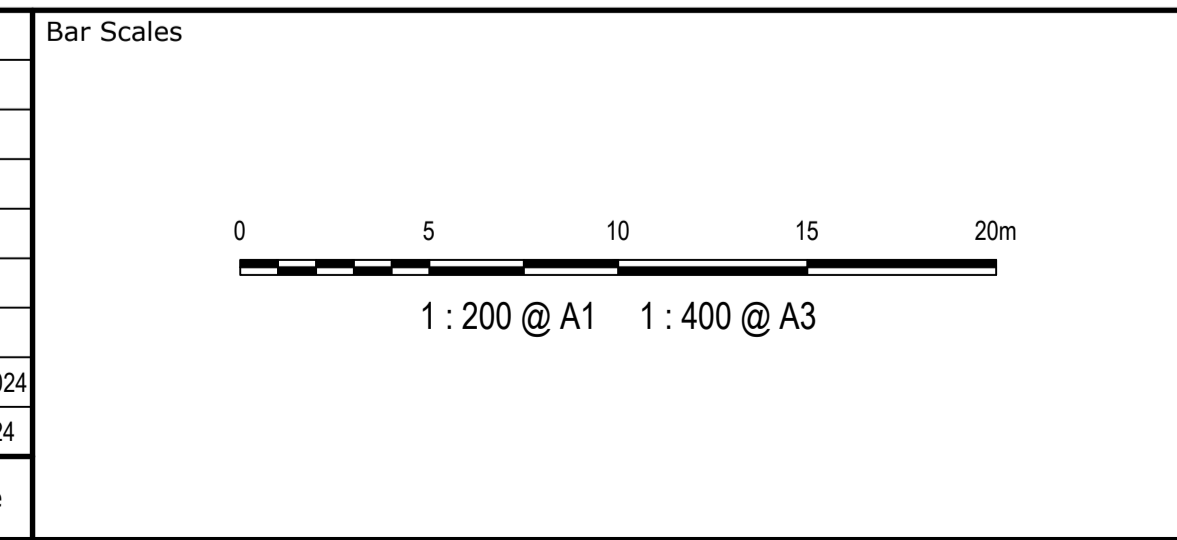


FOR CONTINUATION REFER TO DRAWING C0068

FOR CONTINUATION REFER TO DRAWING C0070

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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales	1:200	Drawn	JS
		Designed	SM
Grid	MGA2020	Checked	SM
Height Datum	AHD	Approved	AT
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Project

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NSW 2756**

Title

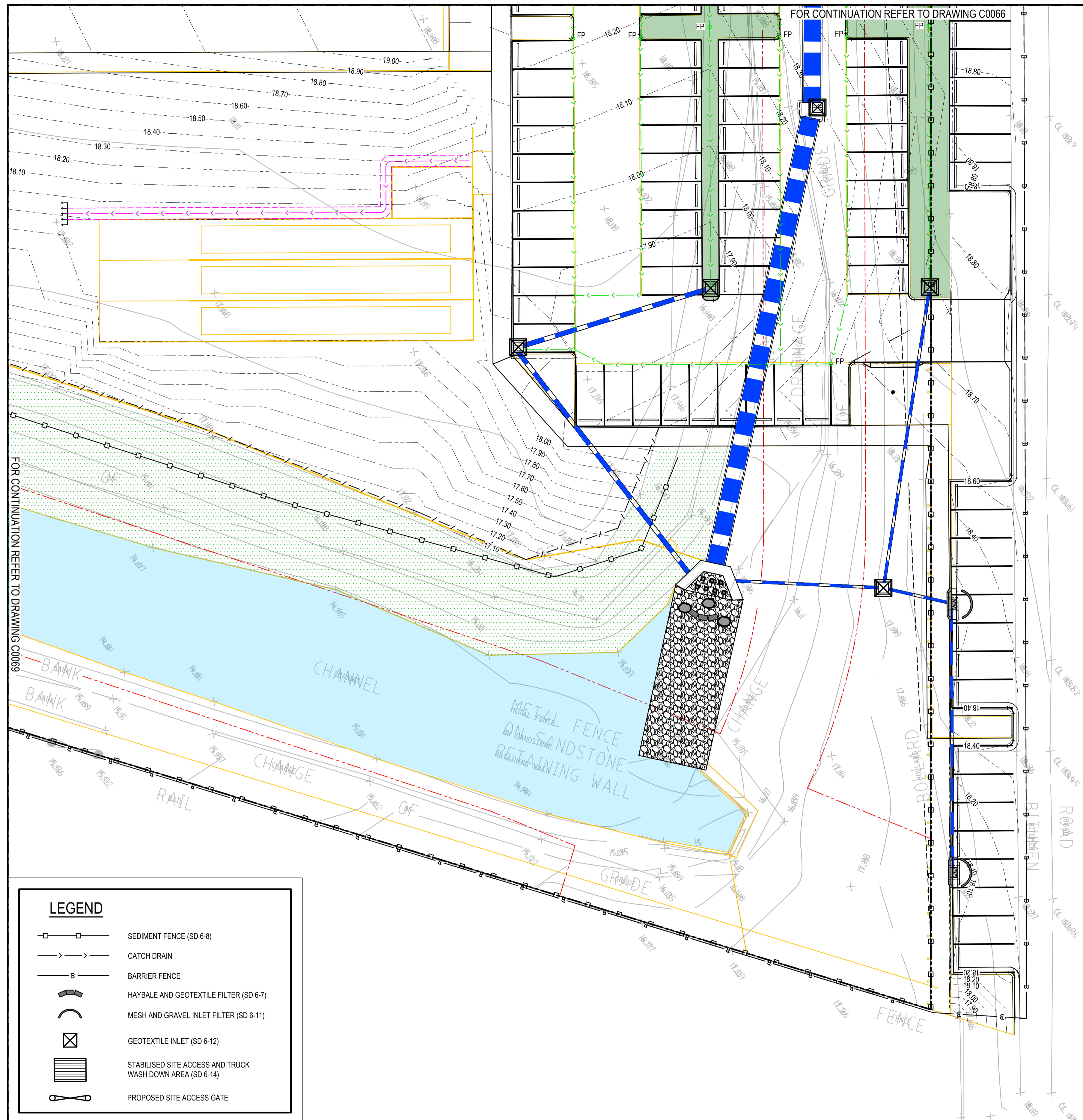
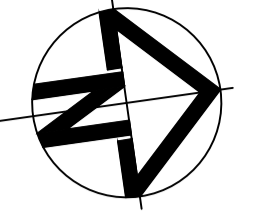
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 10**

Civil Engineers and Project Managers

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Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	<b>23-1123-C0069</b>	Issue
		<b>B</b>





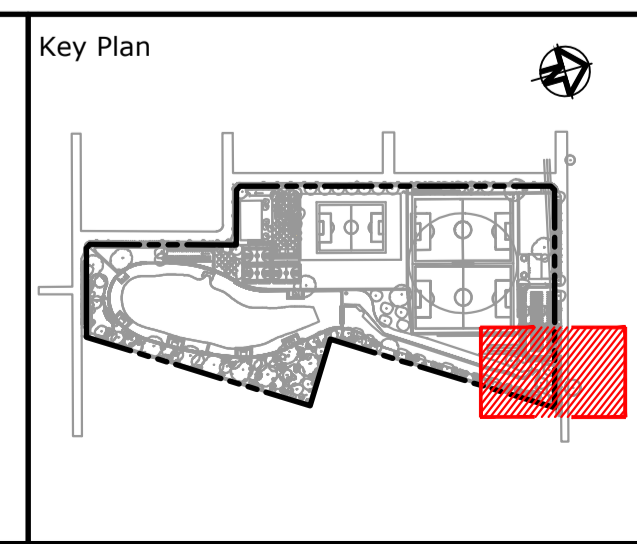
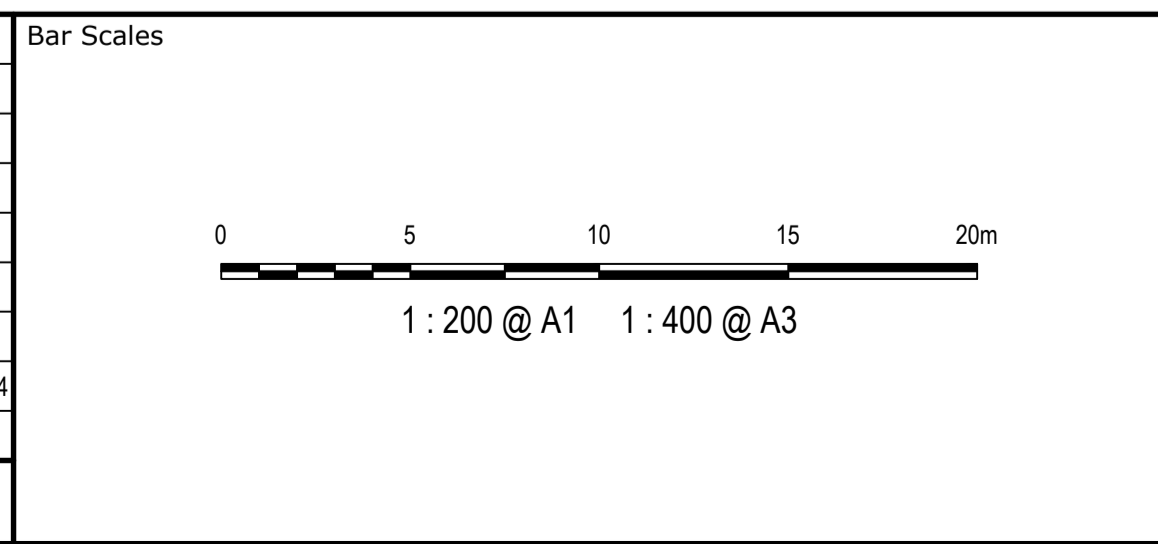
FOR CONTINUATION REFER TO DRAWING C0099

FOR CONTINUATION REFER TO DRAWING C0066

**LEGEND**

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

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24



Client

Scales 1:200	Drawn	JS
	Designed	SM
	Checked	SM
Grid MGA2020	Approved	AT
Height Datum AHD		

GDA2020

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Project

**FERNADELL RESERVE  
PITT TOWN  
NSW 2756**

Title

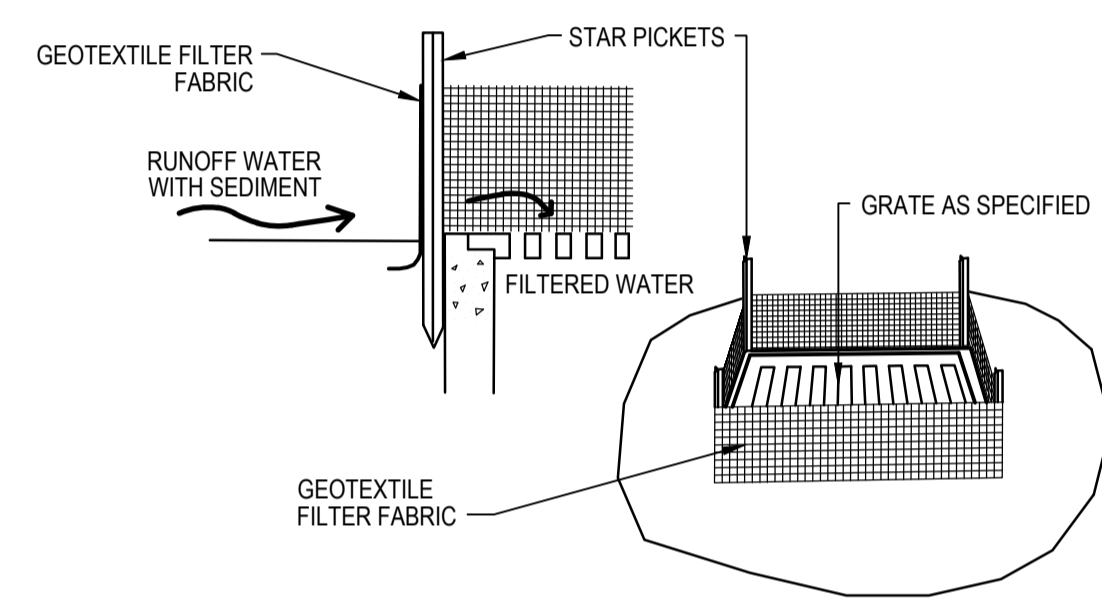
**EROSION AND SEDIMENT  
CONTROL PLAN  
SHEET 11**

Civil Engineers and Project Managers

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North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
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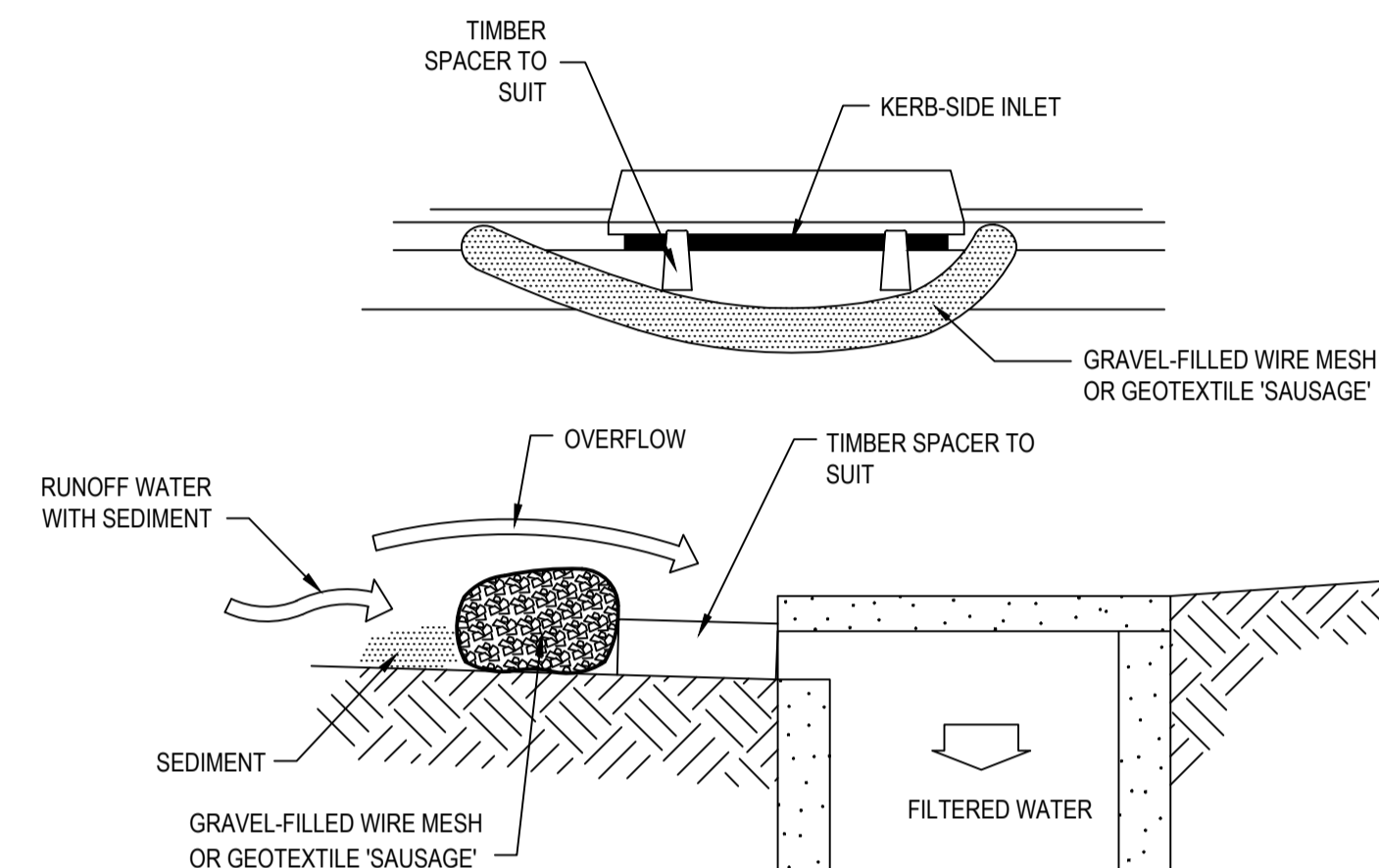
Status	<b>FOR TENDER NOT TO BE USED FOR CONSTRUCTION</b>	A1
Project - Drawing No.	23-1123-C0070	Issue B





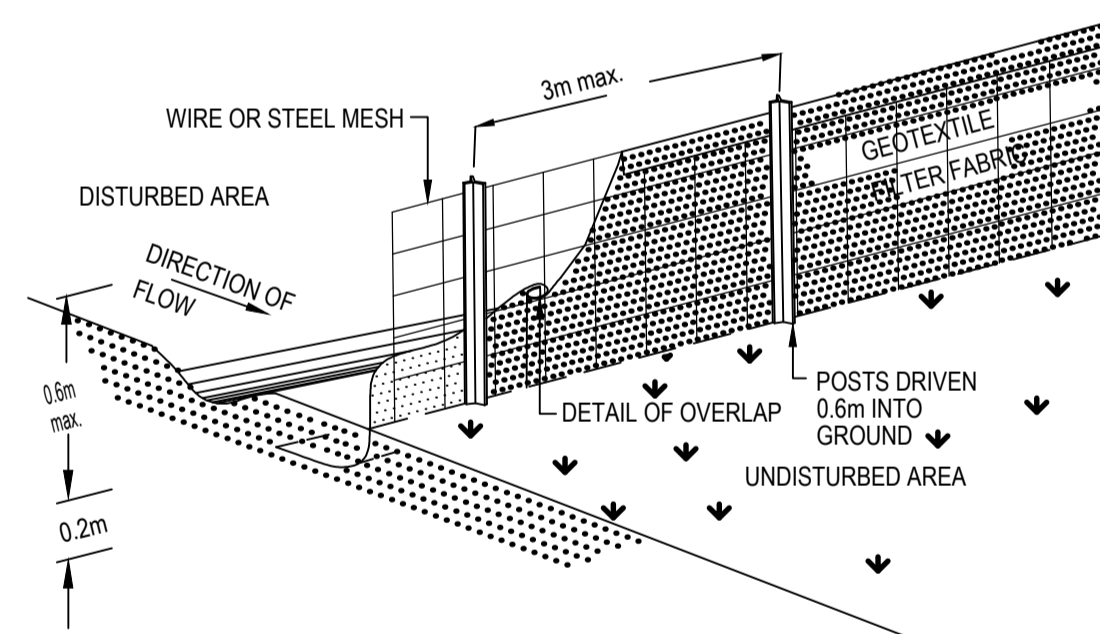
**GEOTEXTILE FILTER PIT SURROUND**

NTS



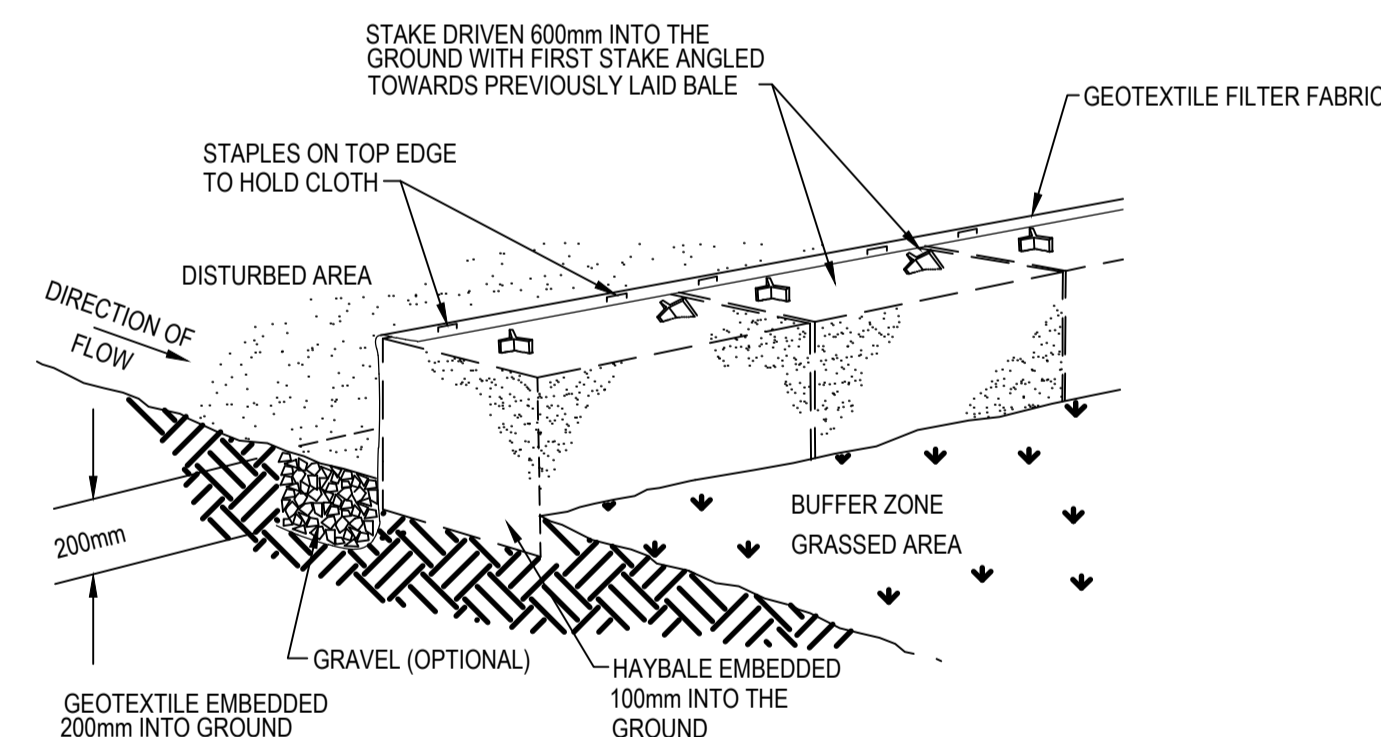
**MESH AND GRAVEL INLET FILTER**

NTS



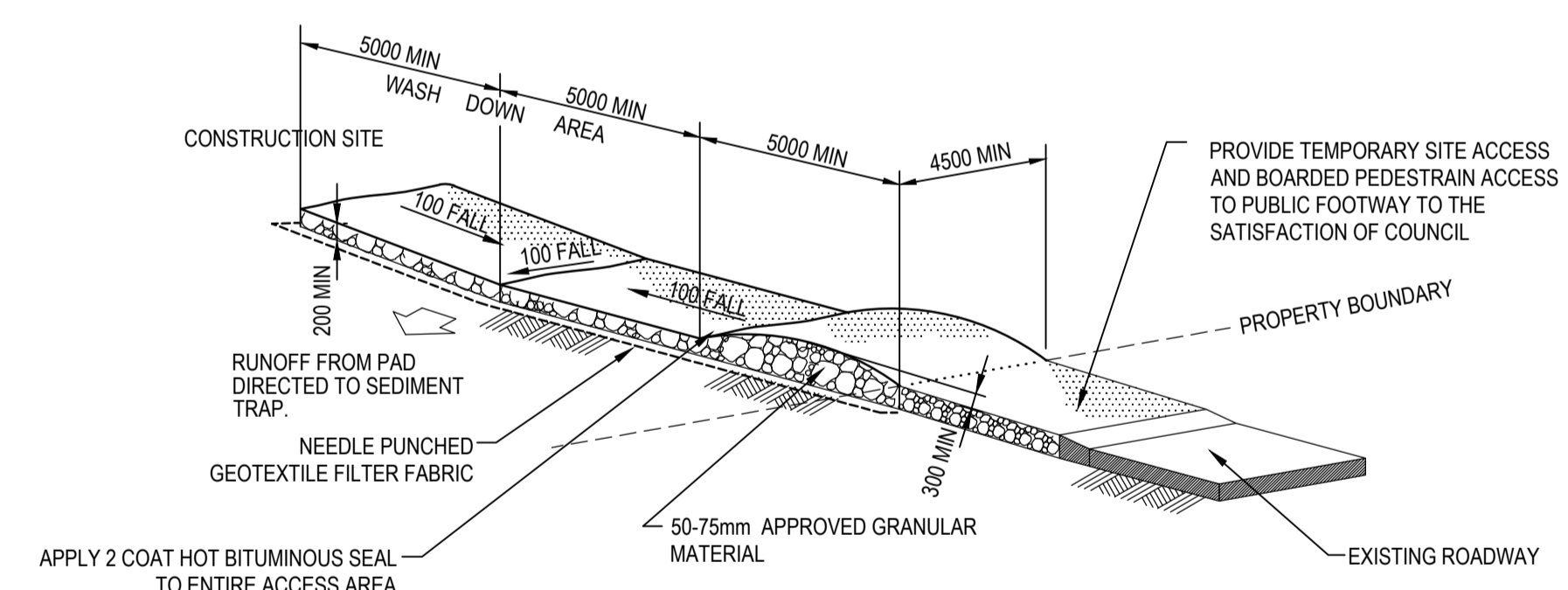
**SEDIMENT FENCE**

NTS



**HAYBALE AND GEOTEXTILE SEDIMENT FILTER**

NTS



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

NTS

Issue	Description	Date
B	FOR TENDER	29-08-2024
A	80% DESIGN ISSUE	12-04-24

Bar Scales

Client



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

Project
FERNADELL RESERVE PITT TOWN NSW 2756
Title
EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR TENDER
Project - Drawing No.	23-1123-C0071
Issue	B