

62 VERNER STREET, GOULBURN, NSW 2580

PROPOSED COMMUNITY TITLE SUBDIVISION

ISSUED FOR SWC APPROVAL

MAY 2024



DEVELOPER

GOULBURN PROJECTS

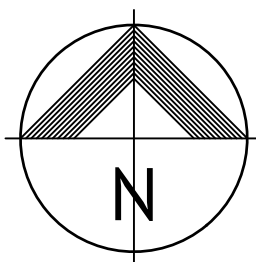
LOCAL GOVERNMENT AREA



ENGINEERING



NORTH



SHEET TITLE

COVER SHEET & SITE LOCALITY

JOB CODE

024965

SHEET NUMBER

C001

REV

A

SCHEDULE OF DRAWINGS		
SHEET NO.	SHEET TITLE	REV.
---	GENERAL	---
C001	COVER SHEET & SITE LOCALITY	A
C002	SCHEDULE OF DRAWINGS	A
C003	GENERAL NOTES, ABBREVIATIONS AND ACRONYMS	A
---	EXISTING SITE LAYOUT PLAN	---
C010	EXISTING SITE PLAN	A
---	TREE REMOVAL AND DEMOLITION	---
C020	TREE REMOVAL AND DEMOLITION PLAN	A
---	EROSION AND SEDIMENT CONTROL	---
C030	EROSION AND SEDIMENT CONTROL PLAN	A
C031	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	A
---	BULK EARTHWORKS	---
C160	CUT AND FILL PLAN	A
C161	SITE SECTIONS - AA & BB	A
C162	SITE SECTIONS - CC	A
C163	SITE SECTIONS - DD	A
C164	SITE SECTIONS - EE	A
C170	SITE GRADING PLAN	A
---	PLAN OF CIVIL WORKS	---
C200	PLAN OF CIVIL WORKS AND DETAIL	A
C230	BIO SWALE PLAN, DETAILS AND LONGITUDINAL SECTIONS	A
---	STORMWATER DRAINAGE NETWORK AND ASSOCIATED DETAILS	---
C250	STORMWATER MODELLING RESULTS AND CATCHMENT PLAN	A
C255	SPECIAL CHAMPER PIT DETAILS	A
C260	STORMWATER PIPE LONGITUDINAL SECTIONS	A
C300	OSD BASIN & DETAILS	A
---	VEHICLE TURNING PATHS	---
C350	TURNING PATH	A
---	RETAINING WALL PLAN AND DETAILS	---
C400	RETAINING WALL PLAN	A
C410	RETAINING WALL LONG SECTION - SHEET 1 OF 3	A
C411	RETAINING WALL LONG SECTION - SHEET 2 OF 3	A
C412	RETAINING WALL LONG SECTION - SHEET 3 OF 3	A
---	MUSIC CATCHMENT	---
C500	MUSIC MODELLING RESULTS AND CATCHMENT PLAN	A

GENERAL NOTES

- G1 GOULBURN MULWAREE COUNCIL (COUNCIL) ARE TO BE NOTIFIED 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- G2 EXECUTE ALL WORKS SHOWN ON THESE DRAWING IN ACCORDANCE WITH THE RELEVANT CODES, STANDARDS AND LOCAL GOVERNMENT ORDINANCES OR AS DIRECTED BY THE SUPERINTENDENT. U.N.O.
- G3 THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT DRAWINGS AND SPECIFICATIONS WHERE APPLICABLE AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G4 DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- G5 ALL LEVELS ARE IN AUSTRALIAN HEIGHT DATUM. ALL SETOUT COORDINATES ARE TO GDA2020 MGA ZONE 55.
- G6 ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR ONSITE BEFORE COMMENCING WORKS. ALL DIMENSIONS SHALL NOT BE OBTAINED BY SCALING.
- G7 ALL SERVICES SHOWN ON THIS DRAWING SET HAVE BEEN PREPARED FROM A COMBINATION OF FIELD SURVEY & EXISTING RECORDS PROVIDED BY SERVICE AUTHORITIES. THE CONTRACTOR SHALL LODGE A "BEFORE YOU DIG" ENQUIRY AND ARRANGE A PRE-CONSTRUCTION MEETING WITH SERVICE AUTHORITIES (IF REQUIRED) TO ESTABLISH THE LOCATION OF ALL EXISTING AND ANY SPECIAL REQUIREMENT PRIOR TO COMMENCING WORKS.
- G8 PRIOR TO CONSTRUCTION THE CONTRACTOR MUST ENSURE ALL EXISTING SERVICES ARE LOCATED BY THE RELEVANT ACCREDITED LOCATORS AND POTHOLED TO CONFIRM LOCATION AND DEPTH PRIOR TO ANY WORKS. THE CONTRACTOR MUST ALLOW FOR THE COSTS FOR ANY COORDINATION WITH SERVICE PROVIDERS. CONTRACTORS TO BE HELD RESPONSIBLE SHOULD THEY DAMAGE EXISTING SERVICES.
- G9 ANY WORKS TO EXISTING SERVICES SHALL BE CARRIED OUT BY AND SHALL BE CO-ORDINATED BY THE HEAD CONTRACTOR.
- G10 SERVICE ADJUSTMENTS: ALL SERVICES AFFECTED BY NEW WORKS TO BE ADJUSTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SERVICE AUTHORITIES.
- G11 ANY OTHER CIVIL, STRUCTURAL AND SERVICE PLANS SHALL BE READ IN CONJUNCTION WITH THE ENCLOSED DOCUMENT. ANY DISCREPANCY IN THE DOCUMENTATION AFFECTING WORKS SHALL BE REFERRED TO THE SITE SUPERINTENDENT FOR INSTRUCTION BEFORE PROCEEDING WITH WORKS SO AFFECTED.
- G12 ANY FENCES, DRIVEWAYS OR OTHER EXISTING ITEMS REMOVED OR DAMAGED DURING CONSTRUCTION TO BE REINSTATE IMMEDIATELY, CONTRACTOR IS TO VISIT THE AT TENDER STAGE TO GAIN UNDERSTANDING, VERIFY THE TYPE AND EXTENT OF REMOVAL/REINSTATEMENT/DISPOSAL OF ANY ITEMS TO ENSURE IT IS ALLOWED FOR IN THE COSTING. ALL DISPOSAL COSTS ARE TO BE BORNE BY THE CONTRACTOR.
- G13 ALL TREE PROTECTION FENCING (IF ANY) TO BE INSTALLED PRIOR TO ANY WORKS BEING CARRIED OUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL THE REQUIRED PROTECTION MEASURES ARE IN PLACE. ALL TREE PROTECTION MEASURES TO BE MAINTAINED FOR THE DURATION OF THE CIVIL WORKS.
- G14 ALL RUBBISH AND DEMOLISHED STRUCTURES TO BE REMOVED BY THE CONTRACTOR. ALL COSTS OF DISPOSAL TO BE BORNE BY THE CONTRACTOR. DISPOSAL OF CONSTRUCTION AND BUILDING WASTE MATERIALS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED WASTE MANAGEMENT PLAN.
- G15 SITE SIGNAGE MUST BE ERECTED PRIOR TO COMMENCING OF WORKS IN A PROMINENT LOCATION ADJACENT TO THE SITE BOUNDARY:
- UNAUTHORISED ENTRY TO THE WORK SITE IS PROHIBITED
 - NAME OF CONTRACTOR'S REPRESENTATIVE IN CHARGE OF THE WORK SITE
 - CONTACT PHONE NUMBER
 - NAME AND CONTACT DETAILS OF THE PRINCIPAL CERTIFYING AUTHORITY
- G16 IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL ASSOCIATED TENDER DOCUMENT INCLUDING SWC CONDITIONS, DA CONDITIONS AND REQUIREMENTS, HERITAGE, ARCHAEOLOGICAL, ECOLOGICAL AND GEOTECHNICAL REPORTS AND CARRY OUT THE WORKS ACCORDINGLY.
- G17 ANY DAMAGES TO COUNCIL'S FOOTWAYS, ROADS OR OTHER INFRASTRUCTURES SHALL BE RESTORED IN ACCORDANCE WITH COUNCIL'S SPECIFICATION AT THE CONTRACTOR'S COST AND PRIOR TO PRACTICAL COMPLETION.
- G18 NO WORK TO BE UNDERTAKEN ON ADJOINING LAND WITHOUT THE WRITTEN CONSENT FROM THE LAND OWNER. THE CONSENT SHALL BE SUBMITTED TO COUNCIL PRIOR TO ANY PHYSICAL INTERFERENCE WITH THAT PROPERTY.
- G19 ACCESS MUST BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES THROUGHOUT THE DURATION OF WORKS U.N.O.
- G20 WORKMANSHIP AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE RELEVANT CODES AND SPECIFICATION, BY LAWS AND ORDINANCES.
- G21 ALL NEW WORKS TO MAKE SMOOTH JUNCTION WITH EXISTING.
- G22 ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL CONSTRUCTION SPECIFICATION.
- G23 THE RECTIFICATION OF ALL MATTERS ARISING FROM INSUFFICIENT INFORMATION BEING SHOWN ON THE APPROVED ENGINEERING PLAN IS TO BE CARRIED OUT TO COUNCIL CONSTRUCTION SPECIFICATION, AND COUNCIL ENGINEER'S SATISFACTION.
- G24 THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY BREACHES OF THE CLEAN WATERS ACT 1970.
- G25 OWNER'S REPRESENTATIVE TO BE NOTIFIED OF ANY WATER IN THE EXCAVATIONS.

GENERAL NOTES (CONT.)

- G26 THE CONTRACTOR IS TO SUBMIT A SITE SPECIFIC CONSTRUCTION METHODOLOGY WITH A DETAILED PROGRAM OF WORKS WHICH SHOULD ADDRESS AND CONFIRM THE FOLLOWING:
- SITE SET UP OF MAIN COMPOUND
 - STAGING OF WORKS
 - ENVIRONMENTAL PROTECTION AREAS (IF ANY)
- G27 WHERE COUNCIL CANNOT BE SATISFIED THAT THE FILL IS SUITABLE FOR USE PROPOSED WITH REGARDS TO POTENTIAL CONTAMINATION, THE FILL SHALL NOT BE USED AND WORKS IN THAT AREA SHALL CEASE UNTIL THE FILL IS VALIDATED TO THE SATISFACTION OF A NSW EPA ACCREDITED SITE AUDITOR.
- G28 ANY ROCK ENCOUNTER TO BE REPORTED TO THE SUPERINTENDENT PRIOR TO UNDERTAKING SUCH EXCAVATION.
- G29 STREET NAME SIGNS TO BE LOCATED AS SHOWN ON THE DRAWINGS AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS OF GMC.
- G30 ALL CONDUITS AND STUBS TO BE LAID UNDER ROAD PAVEMENT PRIOR TO LAYING FINAL ASPHALT SEAL.
- G31 DURING CONSTRUCTION, ALL STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PARTS SHALL BE OVERSTRESSED.
- G32 ALL EXCAVATION, SHORING OF EXCAVATION AND STABILITY OF ADJACENT STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- G33 ALL BATTERS AND TABLE DRAIN AREAS TO BE TOPSOILED AND GRASSED UNLESS OTHERWISE SHOWN.
- G34 THE CONTRACTOR SHALL BE REINSTATE ANY AREAS DISTURBED BY CONSTRUCTION.
- G35 EASEMENTS TO BE CREATED OVER ALL SERVICES AND RETAINING WALLS.

SURVEY

- SU1 THE CONTRACTOR SHALL UNDERTAKE THE NECESSARY SURVEY SETOUT FOR THE WORKS.
- SU2 THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ANY UTILITY SERVICES THAT MIGHT BE AFFECTED DIRECTLY OR INDIRECTLY BY THE WORKS.
- SU3 ALL SURVEY MARKS TO BE RETAINED UNLESS ADVISED OTHERWISE BY THE SUPERINTENDENT.
- SU4 THE CONTRACTOR WILL SURVEY ALL AREAS OF OVER STRIPPING, AND ADVISE THE SUPERINTENDENT BEFORE PLACING FILL OVER SUCH AREAS.
- SU5 THE CONTRACTOR SHALL SURVEY THE LOCATION AND LEVEL OF ALL SERVICES, BURIED ENDS AND JUNCTIONS OF PIPES AND CONDUITS FOR WORKS AS EXECUTED PLANS.
- SU6 ALL FILL AREAS TO BE SURVEYED PRIOR TO PLACING BACKFILL.

WORK HOURS

- W1 CONSTRUCTION WORK SHALL BE ONLY BE CARRIED OUT WITHIN THE FOLLOWING TIMES:
- MONDAY TO FRIDAY 7:00 AM TO 6:00 PM
 - SATURDAY 8:00 AM TO 1:00 PM
- THE ABOVE RESTRICTIONS MAY BE SUBJECT TO REVIEW AND VARIATION BY COUNCIL UPON AN ASSESSMENT OF THE LEVEL OF ANNOYANCE, IF ANY THAT MAY ARISE.
- W2 CONSTRUCTION WORK ON SUNDAY AND PUBLIC HOLIDAYS ARE PROHIBITED UNLESS WRITTEN APPROVAL TO VARY THE HOURS IS GRANTED BY COUNCIL.

PAVEMENT

- P1 ALL MATERIALS FOR PAVEMENTS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL CONSTRUCTION SPECIFICATION.
- P2 THE BASE, SUB-BASE & SELECT MATERIALS SHOULD BE COMPACTED AS PER PAVEMENT DESIGN REPORT PREPARED BY THE GEOTECHNICAL ENGINEER.
- P3 TOPSOIL TO BE EXCAVATED TO EXPOSE SUBGRADE & STOCKPILED. THE SUBGRADE (OR PROPOSED FILL AREAS) SHALL BE STRIPPED OF ALL SOFT, ORGANIC OR MOISTURE AFFECTED MATERIALS AND SHALL BE ROLLED AND COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 100% RELATIVE TO STANDARD COMPACTION AT A MOISTURE RATIO OF 60-90% OF THE OPTIMUM MOISTURE CONTENT.
- P4 UTILITY TRENCH INCLUDING STORMWATER BENEATH ROADWAYS SHALL BE BACKFILLED IN ACCORDANCE WITH THE REQUIREMENTS IN OF THE ASSET OWNERS AND COUNCIL.
- P5 SUBSOIL DRAINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL CONSTRUCTION SPECIFICATIONS C232 - PAVEMENT DRAINS.
- P6 THE CONTRACTOR SHALL CONFIRM THE DESIGN CBR WITH A MINIMUM OF 3 TESTS TAKEN AT SUBGRADE LEVEL. WHERE DISCREPANCY IS FOUND, CONTACT THE DESIGN ENGINEER.
- P7 ALLOW FOR COMPACTION TESTING BY A N.A.T.A. REGISTERED LABORATORY FOR BASE LAYER, SUB-BASE LAYER, AND SUBGRADE LAYER IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARDS FOR PAVEMENTS.
- P8 PAVEMENT HOLD POINTS ARE IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.

ROADWORKS PERMIT

- RP1 THE CONTRACTOR SHALL LODGE A ROAD OPENING APPLICATION (SECTION 138 APPLICATION UNDER THE ROAD ACT 1993) WITH GMC AND PAY THE APPROPRIATE FEE BEFORE ANY CONSTRUCTION COMMENCEMENTS .

TEMPORARY TRAFFIC MANAGEMENT

- TM1 TRAFFIC & PEDESTRIAN CONTROL MEASURES ARE TO BE IN PLACE DURING ALL CONSTRUCTION WORKS. TRAFFIC CONTROL PLANS ARE TO BE PREPARED BY A CERTIFIED & APPROVED PERSON IN ACCORDANCE WITH AS1742.3-2019 & TRANSPORT FOR NSW "TRAFFIC CONTROL AT WORK SITE TECHNICAL MANUAL, 2022".
- TM2 ALL MOVEMENTS TO AND FROM THE SITE TO BE IN ACCORDANCE WITH THE RELEVANT COUNCIL STANDARDS AND APPROVED TRAFFIC MANAGEMENT PLAN. THE CONTRACTOR IS TO PREPARE A DETAILED TRAFFIC MANAGEMENT PLAN AND SUBMIT TO COUNCIL FOR APPROVAL PRIOR TO COMMENCEMENT.

STORMWATER DRAINAGE

- SW1 STORMWATER DRAINAGE DESIGN CRITERIA:
- MAJOR SYSTEM DESIGN FOR 1% AEP (100YR ARI)
- SW2 GMC IS TO BE NOTIFIED 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORKS. THE CONTRACTOR IS TO REVIEW WITH DA CONSENT.
- SW3 ALL PITS (GRADED SURFACE INLET JUNCTION, GRADED GULLY PIT WITH EXTENDED KERB INLET) PIPES ARE TO BE CONSTRUCTED TO COUNCIL CONSTRUCTION SPECIFICATION.
- SW4 ALL SERVICES CROSSING PROPOSED STORMWATER PIPES MUST BE EXPOSED AND LEVELED WITH PERMISSION FROM RELEVANT AUTHORITIES. THE LEVELS ARE REPORTED TO PREMISE BEFORE COMMENCEMENT.
- SW5 "RESERVED"
- SW6 JUNCTION PIT LIDS GRATES TO BE SET AT ROADWAY LEVELS WITH NECESSARY CROSS FALL.
- SW7 ALL SUBSOIL DRAINAGE IN LANDSCAPED/PLANTING AREAS IS TO BE Ø100mm SUBSOIL PIPE AND THE CONNECTION TO THE STORMWATER PITS UNDER ROADWAYS IS TO BE Ø150mm uPVC CLASS SN8 WITH MINIMUM 600mm COVER.
- SW8 "RESERVED"
- SW9 "RESERVED"
- SW10 "RESERVED"
- SW11 "RESERVED"
- SW12 STORMWATER OUTLETS TO KERBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD.
- SW13 PIPE IS TO BE LAID AT UNIFORM GRADE BETWEEN INVERT LEVELS SHOWN WITH MINIMUM COVER MAINTAINED UNLESS OTHERWISE STATED ON THE DRAWINGS.
- SW14 MINIMUM COVER OVER ALL PIPES SHALL BE 600mm UNLESS OTHERWISE SHOWN OR DIRECTED.
- SW15 THE CONTRACTOR IS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTIONS BETWEEN DISSIMILAR PIPEWORKS.
- SW16 ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADEPERSON LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- SW17 PRECAST PITS MAY BE USED AS APPROVED BY THE SUPERINTENDENT AND GMC.
- SW18 LHKEADS TO BE CONSTRUCTED ON ALL STORMWATER LINES WHERE REQUIRED BY COUNCIL STANDARD.
- SW19 ALL BEDDING TO BE H#3 UNLESS OTHERWISE STATED.
- SW20 ALL CONCRETE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPES OR APPROVED EQUIVALENT AND RUBBER RING JOINTED.
- SW21 BEDDING AND COVER FOR REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM WITH COUNCIL'S STANDARD DRAWINGS AND THE CONCRETE PIPE ASSOCIATION "CONCRETE PIPE GUIDE" OR AS 3725. FOR uPVC PIPES, THE REQUIREMENTS SHALL BE AS 2032.
- SW22 RCP TO BE CLASS 2 U.N.O. RCP TO BE PURCHASED FROM QUALITY ASSURED MANUFACTURER APPROVED BY DRC. ALL INTERALLOTMENT PIPES TO BE uPVC U.N.O. WITH SOLVENT WELDED JOINTS.
- SW23 ALL PIPES TO BE INSTALLED TO THE MANUFACTURERS SPECIFICATIONS AND THE REQUIREMENTS OF GMC. ALL STORMWATER PIPES LOCATED ABOVE NATURAL SURFACE LEVEL WILL BE CONSTRUCTED IN CONTROL FILL.
- SW24 THE CONTRACTOR SHALL ENSURE ALL DRAINAGE PIPES AND SERVICES ARE LAID WITHIN THE EXISTING OR PROPOSED EASEMENT.
- SW25 PITS OVER 1.2m TO HAVE STEP IRONS INSTALLED IN ACCORDANCE WITH COUNCIL STANDARD DEEP.
- SW26 ALL LOTS ON HIGH SIDE OF ROADS TO BE PROVIDE WITH Ø100mm KERB OUTLETS INCLUDING 150x150x4mm RHS, KERB ADAPTOR Ø100 uPVC SEWER GRADE UP TO END 0.5m BEYOND THE BOUNDARY, CAP ON THE LOW SIDE OF THE ALLOTMENT FOR FUTURE ROOFWATER OUTLETS.
- SW27 SURFACE INLET GRATES ARE TO BE GALVANISED IN ACCORDANCE WITH COUNCIL REQUIREMENT.
- SW28 THE CONTRACTOR SHALL ENSURE PIPES ARE PROTECTED AGAINST DAMAGE FROM CONSTRUCTION WHEELS AND OTHER LOADS, TOGETHER WITH COMPACTIVE IMPACT EFFECTS DUE TO THE CONSTRUCTION EQUIPMENT AND SURFACE CONDITIONS IN ACCORDANCE WITH AS/NZS 3725.
- SW29 LIFT LENGTH SHOWN ON DRAWINGS INDICATES CLEAR OPENING LENGTH.
- SW30 PRIOR TO PRACTICAL COMPLETION, CONTRACTOR SHALL CARRY OUT CCTV ON ALL STORMWATER DRAINAGE PIPES AND SUBMIT VIDEO AND WRITTEN REPORT CONFIRMING THAT ALL PIPES ARE FREE OF DEFECTS AND ARE LAID TO SPECIFICATION.
- SW31 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES, GRADE SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- SW32 ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION.
- SW33 REINFORCED BOX CULVERT UNITS TO BE COMPLIED WITH AS 1597.2 AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
- SW34 AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FAILING DOWN INTO PITS.
- SW35 BACKFILLING OF TRENCHES SHALL BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION.
- SW36 ALL PITS SHALL BENCHED AND FLOW STREAMLINED.
- SW37 ALL MILD STEEL FIXTURES INCLUDING (GRATES, FRAMES, STEP IRONS, LADDERS ETC) SHALL BE HOT DIP GALVANISED WHICH SHALL COMPLY WITH THE REQUIREMENT OF AS1214 OR AS1650 AS APPROPRIATE.
- SW38 ALL INTERNAL DRAINAGE WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH AS3500.3:2021
- SW39 SUBSOIL DRAINS ARE TO BE PROVIDED BEHIND ALL KERBS AS SHOWN ON THE DRAWINGS. ADDITIONAL SUBSOIL DRAIN IF DETERMINED TO BE REQUIRED BY THE SITE SUPERVISOR) TO BE LAID IF REQUIRED.
- SW40 SUBSOIL DRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH GMC DEVELOPMENT CONSTRUCTION SPECIFICATION.
- SW41 REFER TO COUNCIL STANDARD DRAWING FOR TYPICAL FLUSHING POINT CONSTRUCTION DETAILS.

EARTHWORKS

- E1 EXCAVATION SHALL BE CARRIED OUT TO THE DEPTHS AND DIMENSIONS SHOWN OR IMPLIED ON THE PLANS AND/OR THE DOCUMENTS, OR TO SUCH GREATER DEPTHS & DIMENSIONS AS WILL ENSURE SOUND, PERMANENT FOUNDATIONS ALL EXCAVATIONS SHALL BE APPROVED BY THE SUPERINTENDENT BEFORE ANY MATERIALS OR STRUCTURES ARE PLACED.
- E2 TOPSOIL SHALL BE STRIPPED FROM WITHIN THE AREA OF WORKS INCLUSIVE OF BATTERS & SHALL BE DISPOSED OR STOCKPILED AS DIRECTED BY THE SUPERINTENDENT. THE THICKNESS OF THE TOPSOIL STRIPPING SHALL NOT BE LESS THAN 150mm.
- E3 ALL EXPOSED DELETERIOUS MATERIALS WHICH, IN THE OPINION OF THE SUPERINTENDENT, ARE UNSUITABLE FOR THE PLACING OF FILLING, SHALL BE REMOVED & DISPOSED OR TREATED AS RECOMMENDED BY GEOTECHNICAL ENGINEERS. IF UNSOUND OR UNSUITABLE MATERIAL IS ENCOUNTERED AT THE SPECIFIED EXCAVATION LEVEL, ADDITIONAL EXCAVATION & REPLACEMENT WITH COMPACTED APPROVED MATERIAL MAY BE ORDERED.
- E4 STRIPPED FILL AREAS TO BE PROOF ROLLED AND APPROVED BY GEOTECHNICAL ENGINEERS PRIOR TO PLACEMENT OF FILL.
- E5 ALL IMPORTED MATERIAL SHALL BE VIRGIN EXCAVATED NATURAL MATERIAL (VENM) FREE FROM CHEMICAL OR OTHER CONTAMINATION. A CONTAMINATION REPORT ON THE PROPOSED IMPORTED FILL MATERIAL FROM A N.A.T.A. LABORATORY, MAY BE REQUIRED BY COUNCIL PRIOR TO PLACEMENT OF FILL.
- E6 ALL FILL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL SPECIFICATION.
- E7 ALL FILL WORKS TO BE UNDER LEVEL 1 GEOTECHNICAL SUPERVISION IN ACCORDANCE WITH AS3798-2007.
- E8 THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE GEOTECHNICAL ENGINEERS FOR THE USE OF VIBRATORY ROLLERS NEAR PERMANENT STRUCTURES DURING DURING CONSTRUCTION.
- E9 NOTICE SHALL BE PROVIDED TO COUNCIL AT LEAST TWO BUSINESS DAYS PRIOR TO COMMENCING OF FILL WORKS AND AT LEAST TWO BUSINESS DAYS OF COMPLETION OF SUCH WORKS.
- E10 THE CONTRACTOR IS TO PROVIDE THE SUPERINTENDENT WITH A STATEMENT CONFIRMING THE FILL TO BE USED ON SITE FOR THE PURPOSES OF AN AUDIT REPORT. THIS IS TO BE PROVIDED AT LEAST 2 WEEKS PRIOR TO FILL WORKS.
- E11 ONLY FILL CHARACTERISED AS VENM OR ENM UNDER THE GUIDELINES OF THE NSW ENVIRONMENTAL PROTECTION AUTHORITY MAY BE USED IN THIS DEVELOPMENT. COPIES OF THE VALIDATION REPORTS TO BE PROVIDED TO THE SUPERINTENDENT AT LEAST 2 WEEKS PRIOR TO FILL WORKS.
- E12 ANY FILL WORKS CARRIED OUT ON THE LOTS SHALL BE TESTED BY A N.A.T.A. REGISTERED LABORATORY. A CERTIFICATION CAN BE PROVIDED TO CONFIRM THAT THE FILL HAS BEEN PLACED AS STRUCTURAL FILL FOR RESIDENTIAL PURPOSES AS OUTLINED IN AS3798-2007.
- E13 LOT FILL TO BE COMPACTED TO NO LESS THAN 95% SMD.
- E14 IF UNDETECTED CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, ALL WORK ON SITE IS TO CEASE AND THE SUPERINTENDENT TO BE NOTIFIED. FURTHER INVESTIGATIONS TO BE UNDERTAKEN AS AN "UNEXPECTED FINDS PROTOCOL" WHERE AN ENVIRONMENTAL CONSULTANT WILL BE ENGAGED TO INVESTIGATE AND ASSESS THE POTENTIAL CONTAMINATION AND ADVISE ON REMEDIAL MEASURES (IF REQUIRED).

UTILITIES

- U1 CONTRACTOR IS TO UNDERTAKE AND TO HAVE CURRENT "BYDA" PLANS AVAILABLE ON SITE AT ALL TIMES.
- U2 NO WORKS ON ANY UTILITIES WITHOUT APPROVALS FROM THE UTILITY AUTHORITY.
- U3 BEFORE ANY ESTABLISHMENT WORKS, THE CONTRACTOR IS TO LOCATE, ASSESS, AND FLAG AS NECESSARY, ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO, CRITICAL ASSETS, OVERHEAD ASSETS, AND PRIVATE SERVICES.
- U4 CONTRACTOR IS TO COMPLETE SWMS FOR ALL WORKS AROUND ALL UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE APPROPRIATE CONTROLS IN PLACE TO PROTECT BOTH LIFE AND ASSET.
- U5 ALL ELECTRICAL APPARATUS SHALL BE REGARDED AS LIVE UNTIL PROVED DE-ENERGISED. CONTACT WITH LIVE ELECTRICAL APPARATUS WILL CAUSE SEVERE INJURY OR DEATH.
- U6 ONLY SUITABLE QUALIFIED PERSONS/CONTRACTORS TO WORK ON UTILITY SERVICES.
- U7 THE CONTRACTOR IS OBLIGED TO IMMEDIATELY NOTIFY THE UTILITY AUTHORITY OF ANY DAMAGE TO THEIR ASSETS.
- U8 THE CONTRACTOR IS TO UNDERTAKE A DILAPIDATION SURVEY OF ALL EXISTING ASSETS ENCOUNTERED INCLUDING TIME-STAMP PHOTOS AND NOTIFICATION TO THE SUPERINTENDENT AND THE UTILITY AUTHORITY.
- U9 UTILITIES SHOWN IN THIS SET OF DRAWINGS (IF ANY) ARE FOR INFORMATION/COORDINATION PURPOSE ONLY. REFER TO APPROVED DESIGNS AND BYDA PLANS FOR MORE DETAILS.
- U10 THE UTILITY AUTHORITY RELEVANT TO THIS PROJECT AS PER BYDA NOTIFICATION LETTER.
- U11 THE LOCATION OF UTILITIES SHOWN ON THIS DRAWING SET HAVE BEEN PREPARED FROM A COMBINATION OF FIELD SURVEY, PAST PROJECT'S RECORDS & EXISTING RECORDS PROVIDED BY SERVICE AUTHORITIES. THE CONTRACTOR SHALL LODGE A "BEFORE YOU DIG" ENQUIRY AND ARRANGE A PRE-CONSTRUCTION MEETING WITH SERVICE AUTHORITIES (IF REQUIRED) TO ESTABLISH THE LOCATION OF ALL EXISTING AND ANY SPECIAL REQUIREMENT PRIOR TO COMMENCING WORKS.
- U12 UNCHARTED UTILITY SERVICES MAY BE PRESENT ON THE SITE. THE CONTRACTOR MUST MAKE ALL EFFORTS TO IDENTIFY THE PRESENCE OF UTILITY SERVICES ON THE SITE AND ARRANGE FOR RELOCATION OR PROTECTION AS NECESSARY TO SUIT THE PARTICULAR WORKS, AS AGREED WITH THE SUPERINTENDENT AND IN CONJUNCTION WITH THE RELEVANT UTILITY AUTHORITY.
- U13 THE CONTRACTORS MUST MAKE THEMSELVES AWARE OF AND COMPLY WITH ALL UTILITY AUTHORITY'S REGULATION AND STANDARD REGARDING THE USE OF MACHINERY AND EQUIPMENT IN THE VICINITY OF THE UTILITY SERVICES.

SOIL AND WATER MANAGEMENT

- SE1 THE CONTRACTOR SHALL IMPLEMENT ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DISTURBANCE OF THE WORK AREA TO THE SATISFACTION OF COUNCIL AND CONFORM TO THE SPECIFICATIONS AND STANDARD CONTAINED IN:
- MANAGING URBAN STORMWATER: SOIL AND CONSTRUCTION VOL.1 (4th EDITION, MARCH 2004).
- SE2 EROSION AND SEDIMENT CONTROL SHALL ACCORD WITH SHEETS C0060 - C0061. THE CONTROL MEASURES ARE TO BE MAINTAINED FOR THE FULL DURATION OF CONSTRUCTION AND BEYOND THIS PERIOD WHERE NECESSARY AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL. ONCE THE CONTROL MEASURES ARE NO LONGER REQUIRED, THE CONTRACTOR IS TO REMOVE AND DISPOSE THESE ITEMS OFF SITE.
- SE3 ALL CONTROL MEASURES TO BE INSPECTED BY THE CONTRACTOR WEEKLY AND AFTER EACH STORM EVENT TO ENSURE THEIR PROPER OPERATION AND PERFORMANCE. REMOVE ACCUMULATED SILT FROM SUCH DEVICES BEFORE MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL SILT REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT.
- SE4 ALL STOCKPILES TO HAVE SEDIMENT FENCE PLACED DOWNSTREAM TO PREVENT LOSS OF MATERIALS.
- SE5 STOCKPILES OF CONSTRUCTION, LANDSCAPING MATERIALS, AND SITE DEBRIS ARE TO BE LOCATED CLEAR OF DRAINAGE LINES IN SUCH POSITION THAT THEY ARE WITHIN THE EROSION CONTAINMENT BOUNDARY OR ARE EQUIVALENTLY PROTECTED FROM EROSION AND DO NOT ENCROACH UPON ANY FOOTPATH, NATURAL STRIP OR ROADWAY.
- SE6 STOCKPILES OF MATERIALS SHALL BE COVERED OR ACTIVELY MANAGED TO LIMIT THE DISPERSAL OF MATERIALS FROM THE SITE.
- SE7 ALL DISTURBED AREAS TO BE SEEDDED WITH SEED MIX TO COUNCIL'S REQUIREMENT TREE REMOVAL & DEMOLITION PLAN. THE CONTRACTOR SHALL ENSURE ALL WORKS REQUIRED UNTIL EFFECTIVE COVER HAS PROPERLY ESTABLISHED. THIS WILL INCLUDE REGULAR WATERING, FERTILISING, WEED CONTROL, AND RE-SEEDING/SPRIGGING AS NECESSARY.
- SE8 PUBLIC ROAD TO BE KEPT CLEAR OF DEBRIS AT ALL TIMES. VEHICLE ACCESS IS TO BE CONTROLLED AS TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS PARTICULARLY DURING WET WEATHER OR WHEN THE SITE HAS BEEN AFFECTED BY WET WEATHER.
- SE9 A STABILISED VEHICLE ACCESS, WHEEL WASH OR OTHER CONTROL MEASURES SHALL BE INSTALLED ON SITE TO PREVENT THE DEPOSITION OF SEDIMENTS, SOIL, MUD, AND OTHER MATERIAL ONTO THE ADJOINING ROAD NETWORK, WHERE SEDIMENT, SOIL, MUD, AND OTHER MATERIALS HAVE BEEN DEPOSITED ON THE ROADS, CLEANING AND RESTORATION SHALL BE UNDERTAKEN AS SOON AS PRACTICABLE.
- SE10 DUST SUPPRESSION EQUIPMENT TO BE AVAILABLE AT ALL TIMES (INCLUDING WEEKENDS AND PUBLIC HOLIDAYS) UNTIL FINAL COMPLETION OF THE WORKS TO REDUCE THE EMISSION OF DUST FROM THE SITE.
- SE11 CONTRACTOR MAY REGULARLY WETTING OF THE SITE TO REDUCE DUST GENERATED FROM SITE.
- SE12 ANY INCIDENTS ON SITE LIKELY TO CAUSE POLLUTION TO BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT.
- SE13 THE CONTRACTOR'S RESPONSIBILITY IS TO ENSURE ALL NECESSARY MEASURES SO AS TO PROTECT ALL DISTURBED AREAS AS PER NOTE SE1. ALL ADDITIONAL COSTS ARE TO BE REFLECTED IN TENDER PRICE EVEN IF SUCH MEASURES ARE NOT INDICATED ON THE SEDIMENT AND EROSION CONTROL PLAN.

CONCRETE WORKS

- C1 WORKMANSHIP AND MATERIALS TO CONFORM WITH THE REQUIREMENTS OF AS3600. FORMWORK TO BE IN ACCORDANCE WITH AS3610.
- C2 CONCRETE STRENGTH TO BE GRADE N32 (32MPa AT 28 DAYS) U.N.O.
- C3 CONCRETE BLINDING LAYER STRENGTH TO BE GRADE 15 (15MPa AT 28 DAYS) U.N.O.
- C4 CONCRETE SHALL NOT BE PLACED UNTIL, THE COMPLETED FALSEWORK, FORMWORK AND REINFORCEMENT FIXING HAVE BEEN INSPECTED AND APPROVED BY THE SUPERINTENDENT.
- C5 PLACING: ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATOR SHALL NOT BE USED TO SPREAD CONCRETE.
- C6 JOINTING FOR CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH STRUCTURAL DESIGN.
- C7 CEMENT MORTAR SHALL BE MIXED IN THE RATIO OF 4 PART SAND : 1 PART CEMENT AND WITH STRENGTH NOT LESS THAN 12 MPa.
- C8 THE CONTRACTOR IS TO TO MAKE ITSELF AWARE OF ALL OTHER STRUCTURAL ENGINEERING SPECIFICATION, AND OR REQUIREMENTS WHICH ARE FORMED PART OF STRUCTURAL DESIGN.

SIGNAGE AND PAVEMENT MARKINGS

- M1 ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS 1742 AND OR TNSW STANDARDS AND SPECIFICATIONS.
- M2 LINE MARKING AND PAINT SHALL BE IN ACCORDANCE WITH AS1742.3 AND OR TNSW STANDARDS.
- M3 PAINT SHALL BE TYPE 3 CLASS 'A' AND THE COLOUR SHALL BE WHITE AND NOT SUBJECT TO DISCOLOURATION BY BITUMEN FROM ROAD SURFACE. ALL PAINT TO BE APPLIED BY MECHANICAL SPRAYER.
- M4 LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING.
- M5 PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm AND 0.40mm.

HERITAGE

- H1 SHOULD ANY HISTORICAL RELICS OR ABORIGINAL ARTIFACTS ARE UNEXPECTEDLY DISCOVERED IN ANY AREAS OF THE SITE, THE SUPERINTENDENT IS TO BE CONTACTED IMMEDIATELY AND WORKS ARE TO CEASE IN THAT AREA FOR FURTHER ADVICE.

OTHER NOTES

- O1 NO DISTURBANCE TO THOSE AREAS NOT AFFECTED BY THE WORKS. NO EXCAVATION, NO FILLING, NO DUMPING, NO BURNING OF TREE STUMPS, OR ANY OTHER ACTIVITIES THAT HAVE ADVERSE ENVIRONMENTAL & ECOLOGICAL IMPACT.
- O2 NO VIBRATING ROLLERS TO BE USED IN THE VICINITY OF PROPERTIES. HOUSES IN CLOSE PROXIMITY TO BE INSPECTED PRIOR TO COMMENCEMENT OF WORK.
- O3 SAFETY OF GENERAL PUBLIC SHALL BE PROVIDED DURING THE CONSTRUCTION WORK. SAFETY FENCE BARRIERS SHALL BE PROVIDED TO PREVENT UNAUTHORISED PERSONNEL ENTERING THE WORK SITE.
- O4 TRAFFIC CONTROL: ALL MEASURES TO CONTROL OR DIVERT VEHICULAR AND PEDESTRIAN TRAFFIC IS TO BE COVERED BY A TRAFFIC CONTROL PLAN PREPARED BY AN ACCREDITED DESIGNER.

TREE PROTECTION

- T1 REFER TO REMOVED FOR TREES TO BE RETAINED AND PROTECTED.
- T2 ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE.
 - ENSURING THAT NOTHING IS NAILED TO ANY PART OF THE TREE.
 - CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY. COUNCILS AND/OR INDEPENDENT ARBORISTS TO BE CONSULTED WHERE TREE ROOTS ARE TO BE REMOVED AND/OR CUT.

KERB WORKS

- K1 ALL KERBS ARE TO BE CONSTRUCTED AS PER COUNCIL SPECIFICATION .
- K2 IN THE REPLACEMENT OF ROLL OVER KERB & GUTTER OR UPRIGHT KERB & GUTTER, EXISTING ROAD PAVEMENT IS TO BE NEATLY SAWCUT. THE MATERIAL REMOVED AND REPLACED WITH AC10. MINIMUM DIMENSION OF THE RESTORATION WORK ARE TO BE 600mm WIDE AND 50mm DEEP. ALL MATERIAL IS TO BE PLACED ON A THOROUGHLY COMPACTED DGB BASE MATERIAL.
- K3 EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARDS FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES, AND ELSEWHERE AT MAX 12m CENTRES.
- K4 WEAKENED PLAN JOINTS TO BE MINIMUM 3mm WIDE AND LOCATED AT 3m CENTRES.
- K5 RAMPED AND VEHICULAR CROSSINGS SHALL HAVE BROOMED FINISH. ALL OTHER KERBING OR DISH GUTTER TO HAVE STEEL FLOAT FINISH.

ABBREVIATIONS/ACRONYMS

AC	ASPHALTIC CONCRETE	MH	MAINTENANCE HOLE
ARI	AVERAGE RECURRENCE INTERVAL	MAX	MAXIMUM
AS	AUSTRALIAN STANDARD	MMDD	MODIFIED MAXIMUM DRY DENSITY
BoK	BACK OF KERB	MIN	MINIMUM
BK	BARRIER KERB	NATA	NATIONAL ASSOCIATION OF TESTING AUTHORITIES, AUSTRALIA
BEW	BULK EARTHWORK	NoMk	NOMINAL KERB
CBR	CALIFORNIA BEARING RATIO	NTS	NOT TO SCALE
CL	CENTRE LINE	OD	OUTSIDE DIAMETER
CH	CHAINAGE	P	PARKING AREA
CJ	CONSTRUCTION JOINT	PB	PROPOSED BOUNDARY
CONC	CONCRETE	RAB	ROUND ABOUT
CL2	PIPE CLASS 2	RCP	REINFORCED CONCRETE PIPE
Ø	PIPE DIAMETER (NOMINAL INTERNAL)	RL	REDUCED LEVEL
DD	DISH DRAIN	RRJ	RUBBER RING JOINT
DRG	DRAWING	RTW	RETAINING WALL
DICL	DUCTILE IRON CEMENT LINED	STD	STANDARD
EJ	EXPANSION JOINT	SV	STOP VALVE
ES	EXISTING SURFACE	SW	STORMWATER
EX	EXISTING	ToK	TOP OF KERB
FP	FLUSHING POINT	TP	TANGENT POINT
GMC	GOULBURN MULWAREE COUNCIL	TPZ	TREE PROTECTION ZONE
IAD	INTER-ALLOTMENT DRAINAGE	U/G	UNDERGROUND
HP	HIGH POINT	uPVC	UNPLASTICISED POLYVINYL CHLORIDE
IL	INVERT LEVEL	TYP	TYPICAL
KG	UPRIGHT KERB & GUTTER	VC	VEHICLE CROSSING
LO	LOW POINT	WAE	WORKS AS EXECUTED
LoK	LIP OF KERB		



ISSUED FOR SWC APPROVAL

23/05/2024	A	ISSUED FOR SWC APPROVAL	BNB	MZ	
DATE	REV	DESCRIPTION	REC	APP	
REVISIONS					



DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE	
	N/A
ORIGINAL SHEET SIZE A1	

CLIENT	
PROJECT	
LOCATION	
SHEET TITLE	

GOULBURN PROJECTS

PROPOSED COMMUNITY TITLE SUBDIVISION

62 VERNER STREET, GOULBURN, NSW 2580

GENERAL NOTES, ABBREVIATIONS AND ACRONYMS

JOB CODE

024965

SHEET NUMBER

C003

REV

A



LEGEND

- EXISTING CONTOUR MINOR (0.25m INTERVAL)
- EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- EXISTING FENCE
- EXISTING BUILDING
- EXISTING DRIVEWAY
- EXISTING KERB
- EXISTING RETAINING WALL

- EXISTING GAS
- EXISTING TELSTRA
- EXISTING NBN
- EXISTING ELECTRICITY
- EXISTING POWER POLE
- EXISTING SEWER
- EXISTING SEWER MANHOLE
- EXISTING VEGETATION
- EXISTING TREE

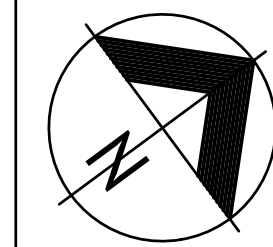
THESE PLANS ARE PREPARED FROM A COMBINATION OF FIELD SURVEY AND BYD RECORDS FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE SITE BOUNDARY HAS BEEN ADOPTED FROM THE SURVEY DATA PROVIDED.

SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY AND AVAILABLE SOURCE OF INFORMATION. IT IS ONLY INDICATIVE FOR INFORMATION ONLY.

THE ASSETS OWNERS LISTED BELOW HAVE BEEN IDENTIFIED NEAR THE WORK SITE:		
• ESSENTIAL ENERGY	13 23 91	
• JEMENA GAS COUNTRY	1300 880 906	
• NBN CO NSWACT	1800 687 626	
• TELSTRA NSW CENTRAL	1800 653 935	

PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES.

USERS OF THIS PLAN SET SHOULD SATISFY THEMSELVES OF THE POSITION AND EXTENT OF SERVICES IN THE AREA OF PROPOSED WORKS.



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				



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DESIGNED
TUNG PHAM

CHECKED
MICHA ZESCHKE

PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE

SCALE 1:125 (A1)

0 2.5 5 7.5m

SCALE 1:250 (A3)

0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

SHEET TITLE
EXISTING SITE PLAN

JOB CODE
024965

SHEET NUMBER
C010

REV
A



LEGEND

- 650.00

650.00

EXISTING CONTOUR MINOR (0.25m INTERVAL)

EXISTING CONTOUR MAJOR (1.00m INTERVAL)

EXISTING FENCE TO BE REMOVED

EXISTING BUILDING

BUILDING AREA RESIDENTIAL STRUCTURES TO BE DEMOLISHED

EXISTING FOOTPATH TO BE REMOVED

EXISTING DRIVEWAYS TO BE REMOVED

EXISTING VEGETATION TO BE REMOVED

EXISTING TREE TO BE REMOVED

EXISTING GAS

EXISTING TELSTRA

EXISTING NBN

EXISTING ELECTRICITY

EXISTING POWER POLE

EXISTING SEWER

EXISTING SEWER MANHOLE

EXISTING KERB

EXISTING KERB TO BE DEMOLISHED

EXISTING RETAINING WALL TO BE REMOVED

THESE PLANS ARE PREPARED FROM A COMBINATION OF FIELD SURVEY AND BYD RECORDS FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE SITE BOUNDARY HAS BEEN ADOPTED FROM THE SURVEY DATA PROVIDED.

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• ESSENTIAL ENERGY	13 23 91	
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PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES.

USERS OF THIS PLAN SET SHOULD SATISFY THEMSELVES OF THE POSITION AND EXTENT OF SERVICES IN THE AREA OF PROPOSED WORKS.

NOTES

1. THIS SHEET ONLY SHOW INDICATIVELY THE STRUCTURES, TREES, HARDSTAND, DRIVEWAY, EXISTING PAVEMENT THAT NEED TO BE REMOVED FOR THE DEVELOPMENT. CONTRACTOR IS TO INSPECT THE SITE AND CONFIRM WITH THE DEVELOPER OR PROJECT MANAGERS THE EXACT SCOPE AND COMPONENTS FOR THE DEMOTION WORKS.
 2. CONTRACTOR IS TO TAKE FULL RESPONSIBILITY FOR THE DEMOTION WORK SEQUENCE AND ANY SAFETY MEASURES COMPLYING WITH SAFEWORK'S REQUIREMENT.
 3. CONTRACTOR IS TO ALLOW FOR ANY EXISTING PAVEMENT REMOVAL WHICH IS REQUIRED FOR A SMOOTH MATCHING NEW PAVEMENT INTO EXISTING PAVEMENT. THIS AREA OF REMOVAL IS NOT DOCUMENTED ON THIS SHEET.
 4. CONTRACTOR IS TO CONTACT ALL THE EXISTING SERVICES ASSET OWNERS PRIOR TO COMMENCEMENT AND LIAISE WITH THEM DURING CONSTRUCTION PERIOD IF NECESSARY.
 5. EXISTING SERVICES WITHIN VERGE TO BE ADJUSTED AT DEVELOPER EXPENSE.

CAUTION: ENSURE EXISTING SERVICES WITHIN TO PROPOSED DEVELOPMENT SITE IS DISCONNECTED BEFORE COMMENCEMENT OF SERVICES UTILITIES WORKS

POINTS	EASTING	NORTHING
01	4897.963	5031.588
02	4892.730	5035.473

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23/05/2024	A	ISSUED FOR SWC APPROVAL		
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DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE

SCALE 1:125 (A1)

0 2.5 5 7.5m

SCALE 1:250 (A3)

0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	TREE REMOVAL AND DEMOLITION PLAN

JOB CODE		024965
SHEET NUMBER	REV	C020 A

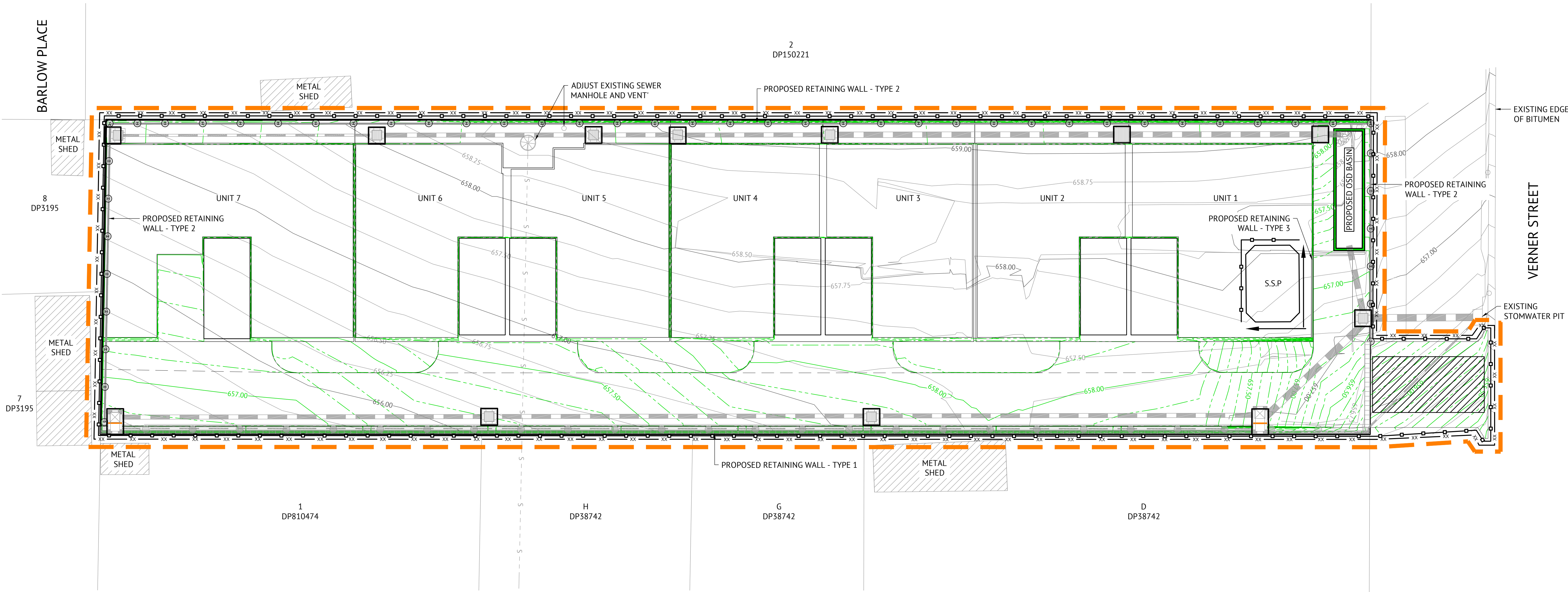
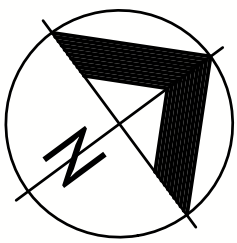


LEGEND

- EXISTING CONTOUR MINOR (0.25m INTERVAL)
- EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- DESIGN CONTOUR MAJOR (0.50m INTERVAL)
- DESIGN CONTOUR MINOR (0.10m INTERVAL)
- EXISTING BUILDING
- EXISTING KERB
- EXTENT OF WORKS
- EXISTING SEWER
- EXISTING SEWER MANHOLE

- SEDIMENT FENCE (FIGURE SD 6-8) IN ACCORDANCE WITH THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- SITE FENCE/LIMIT OF CLEARING & GRADING
- STABILISED SITE ACCESS IN ACCORDANCE WITH FIGURE SD 6-14 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- EARTH BANK IN ACCORDANCE WITH FIGURE SD 5-5 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- MESH AND GRAVEL INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-11 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.

- GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-12 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- SOIL STOCKPILE IN ACCORDANCE WITH FIGURE SD 4-1 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- PROPOSED STORMWATER
- PROPOSED GRATED INLET PIT
- PROPOSED DRIVEWAY
- PROPOSED BREAKLINE



NOTE
THIS PLAN IS TO BE PRINTED
AND READ IN COLOUR.

NOTE
SEE SHEET C031 FOR EROSION & SEDIMENT
CONTROL DETAILS.

ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				



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DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE

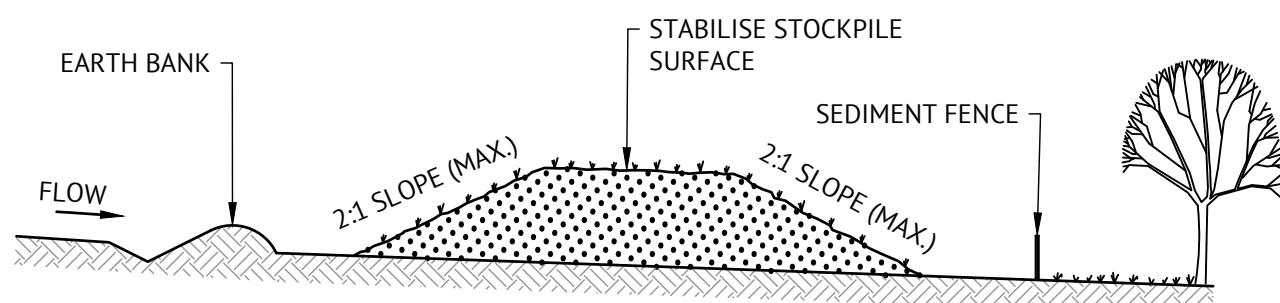
SCALE 1:125 (A1)
0 2.5 5 7.5m

SCALE 1:250 (A3)
0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	EROSION AND SEDIMENT CONTROL PLAN

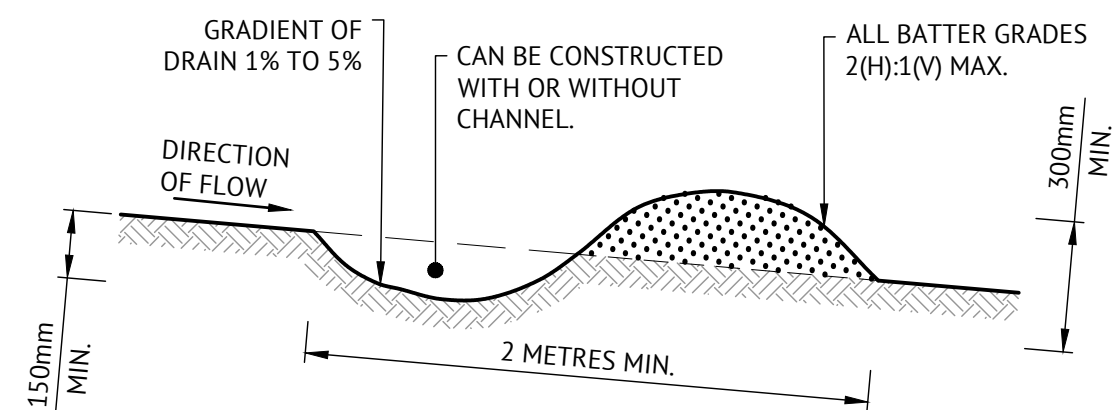
JOB CODE	024965
SHEET NUMBER	C030
REV	A



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)

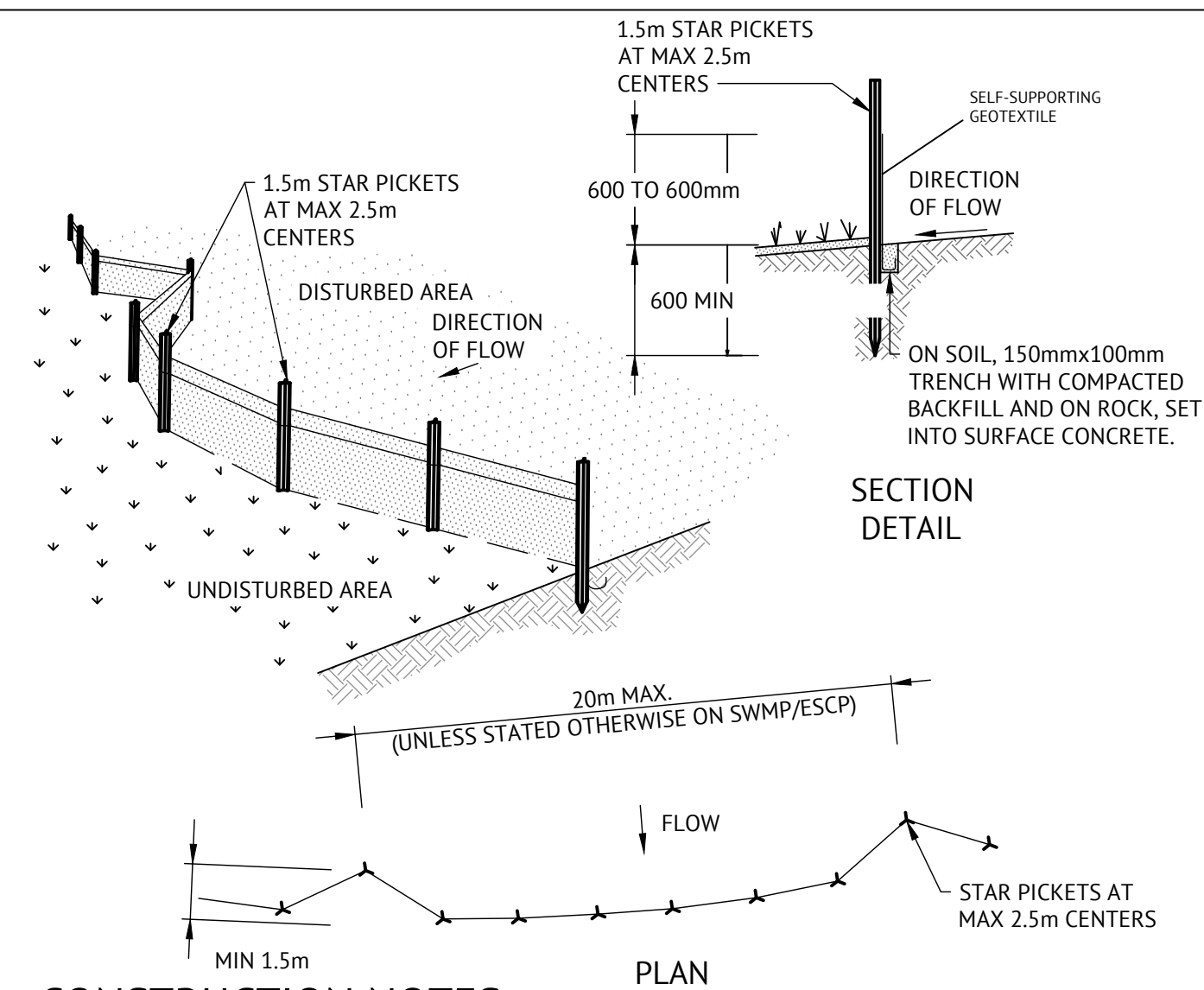


CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

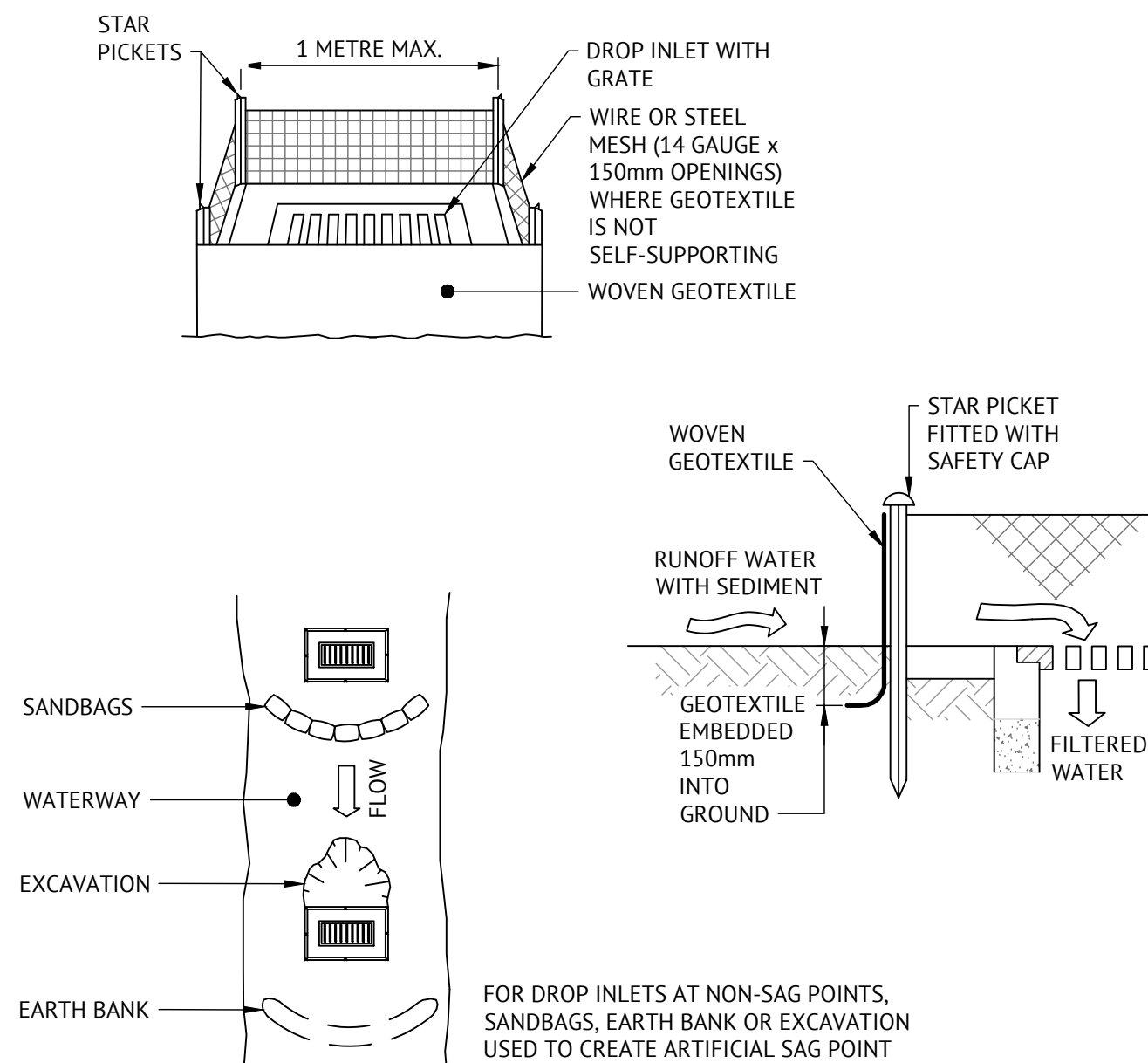
EARTH BANK - LOW FLOW (SD 5-5)



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

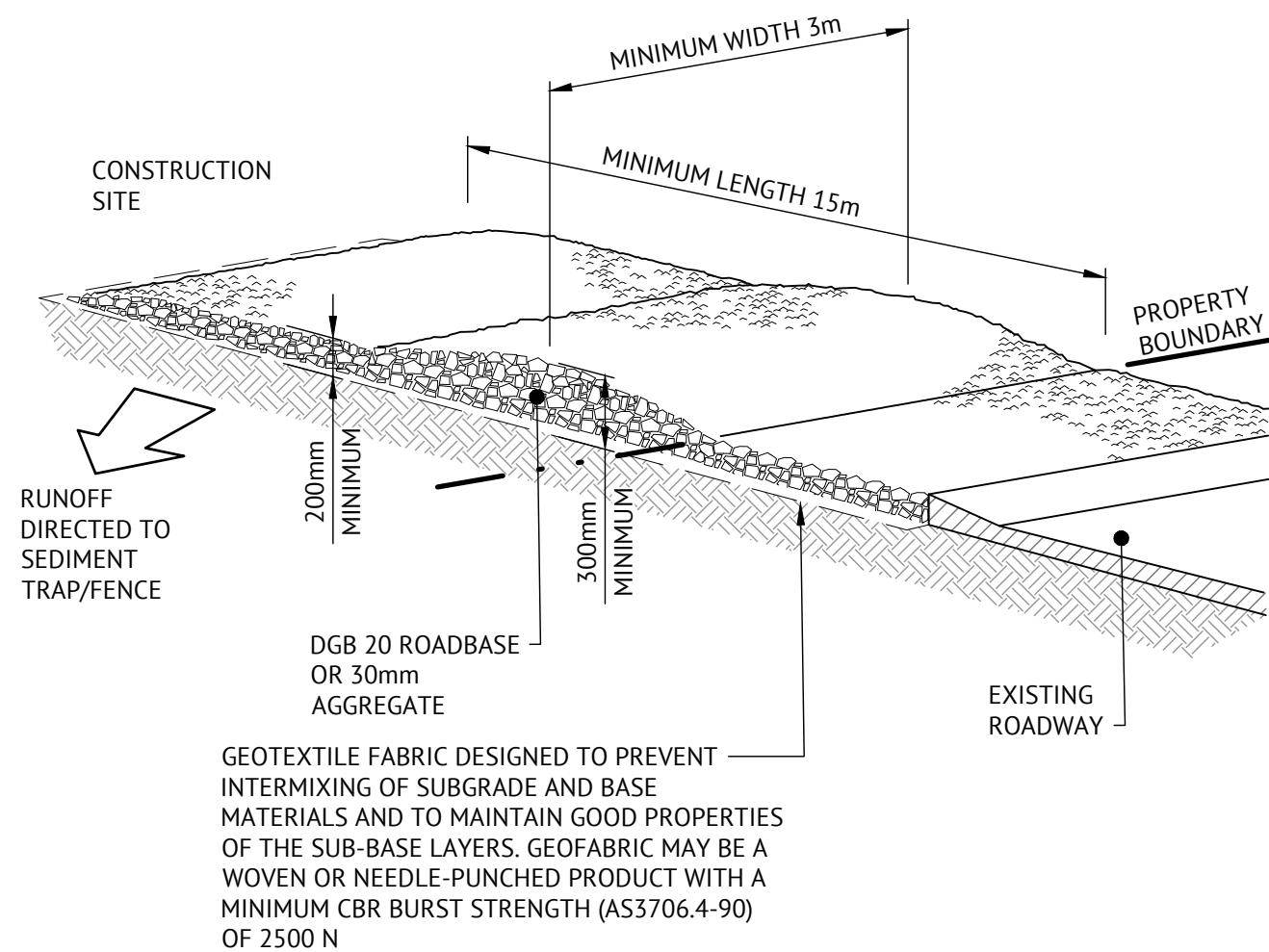
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS (SD 6-14)

IMAGE SOURCE: LANDCOM BLUE BOOK

ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		



DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE
N/A
ORIGINAL SHEET SIZE A1

CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

JOB CODE	024965
SHEET NUMBER	C031
REV	A

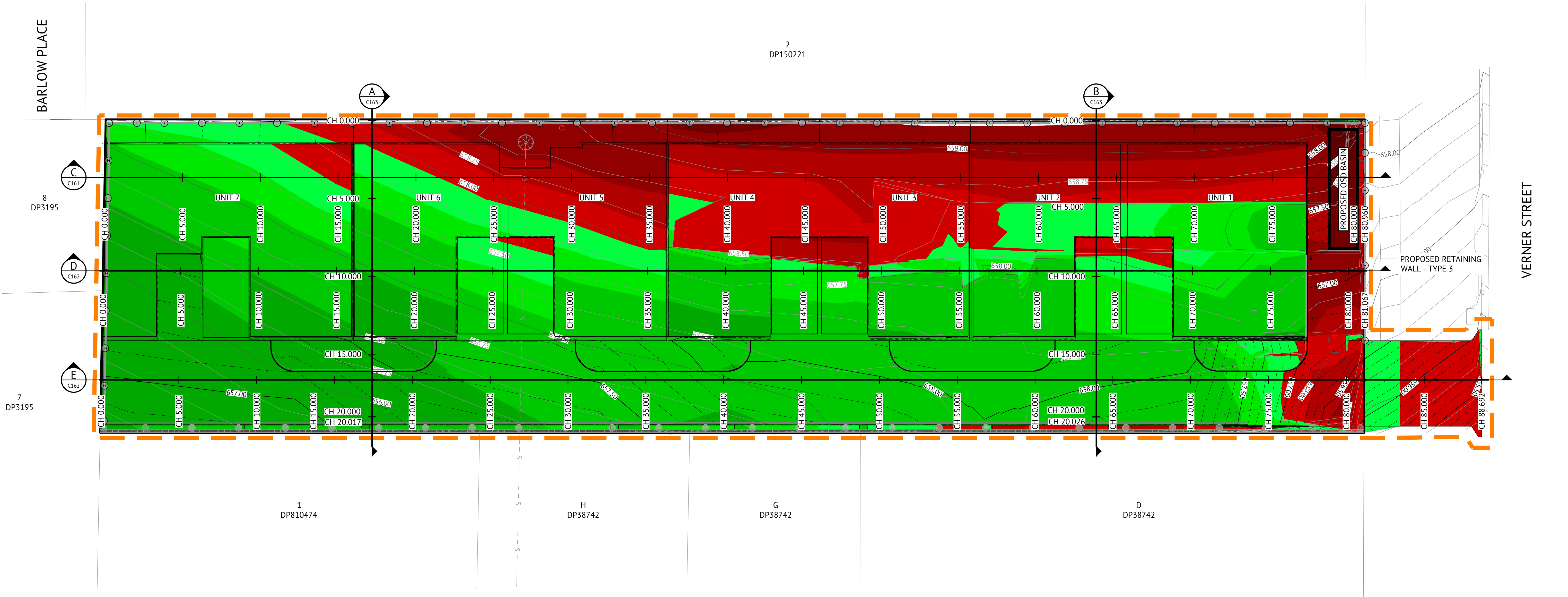
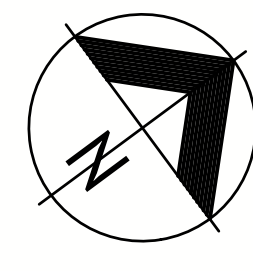


LEGEND

- EXTENT OF WORKS
- EXISTING SEWER
- EXISTING SEWER MANHOLE
- EXISTING CONTOUR MINOR (0.25m INTERVAL)
- EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- DESIGN CONTOUR MAJOR (0.50m INTERVAL)
- DESIGN CONTOUR MINOR (0.10m INTERVAL)
- PROPOSED RETAINING WALL - TYPE 1
- PROPOSED RETAINING WALL - TYPE 2
- PROPOSED RETAINING WALL - TYPE 3

EARTHWORKS VOLUMES					
ITEM	DESCRIPTION	DEPTH (m)	SURFACE AREA (PLAN m ²)	VOLUME (m ³)	NOTES
1	CUT - TO DESIGN LEVEL	N/A	N/A	-214	TOPSOIL STRIPPED "TIN" VS DESIGN "TIN"
2	FILL - TO DESIGN LEVEL	N/A	N/A	808	
3	BALANCE (FILL OVER CUT)	N/A	N/A	594	

CUT/FILL		
Colour	Depth Range (m)	
	-5.000	-2.000
	-2.000	-1.000
	-1.000	-0.500
	-0.500	-0.250
	-0.250	0.000
	0.000	0.250
	0.250	0.500
	0.500	1.000
	1.000	2.000
	2.000	5.000
	5.000	10.000



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		

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SUITE 301, LEVEL 3 ORAN PARK PODIUM
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ORAN PARK, NSW 2570
Ph. (02) 4632 6500
contact: 1300 017 736 www.premise.com.au

DESIGNED
TUNG PHAM

CHECKED
MICHA ZESCHKE

PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE

SCALE 1:125 (A1)

0 2.5 5 7.5m

SCALE 1:250 (A3)

0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

SHEET TITLE
CUT AND FILL PLAN

JOB CODE
024965

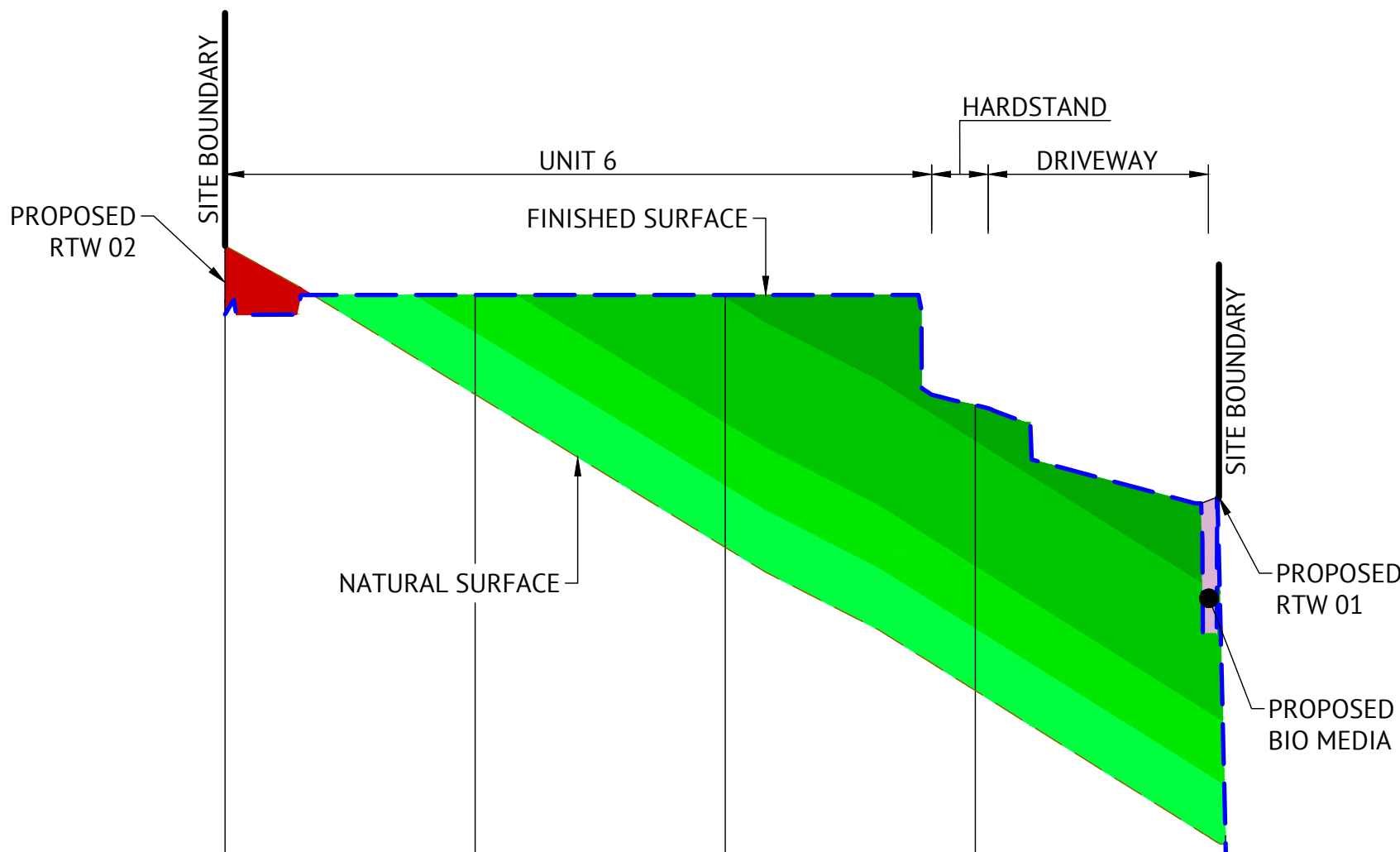
SHEET NUMBER
C160

REV
A

CUT/FILL		
Colour	Depth Range (m)	
	-5.000	-2.000
	-2.000	-1.000
	-1.000	-0.500
	-0.500	-0.250
	-0.250	0.000
	0.000	0.250
	0.250	0.500
	0.500	1.000
	1.000	2.000
	2.000	5.000
	5.000	10.000

CUT

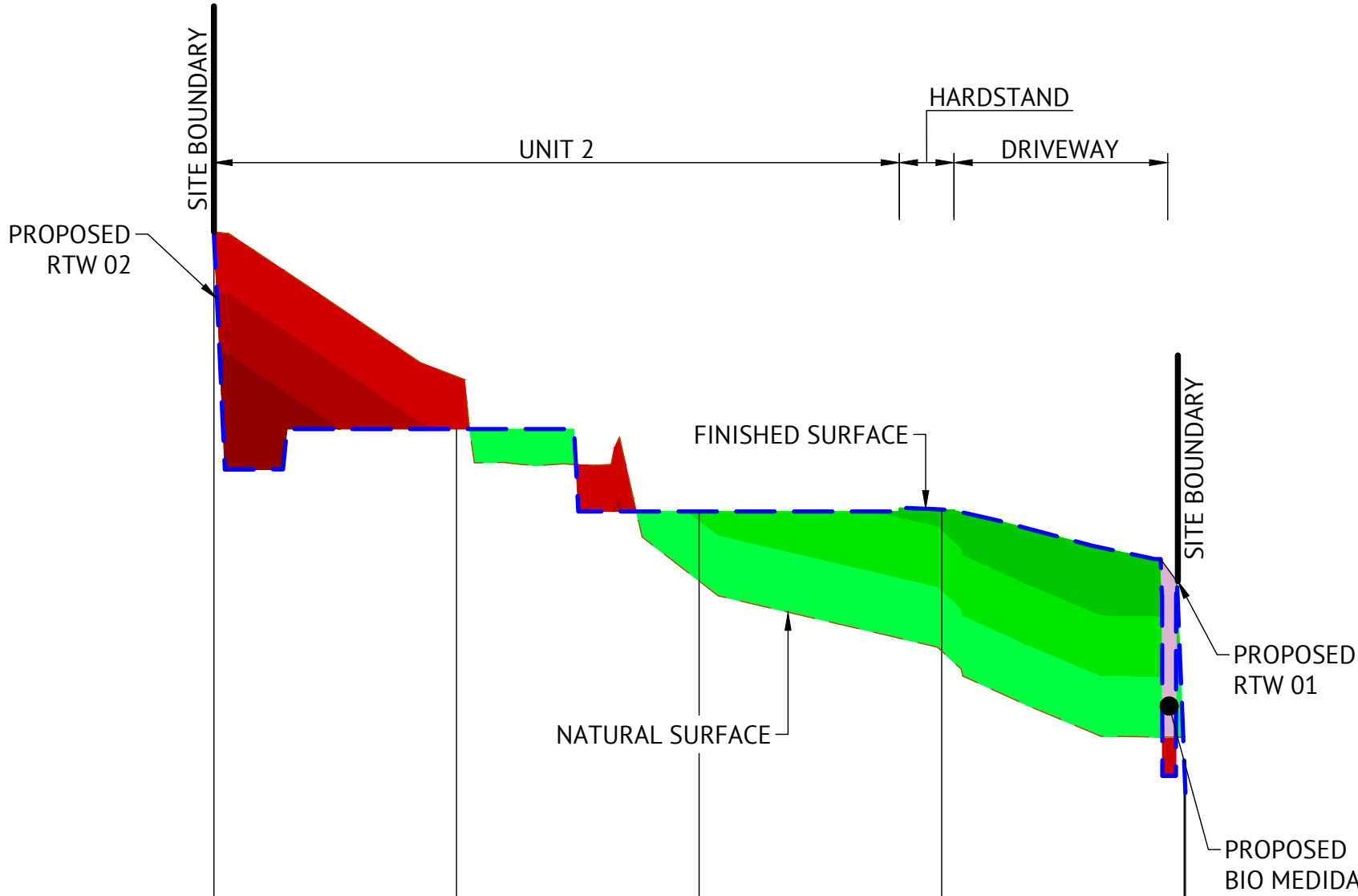
FILL



DATUM R.L. 653.000

CUT/FILL	0.274	0.398	1.009	1.141	0.033	-0.114
<u>FINISHED SURFACE LEVEL</u>	657.873	657.950	657.950	657.509	655.788	655.641
<u>NATURAL SURFACE LEVEL</u>	658.147	657.552	656.941	656.369	655.755	655.755
CHAINAGE	0.000	5.000	10.000	15.000	20.000	20.017

A SITE SECTION
C160 HORIZ. 1:125 - VERT. 1:25



DATUM R.L. 654.000

CUT/FILL	0.000	-0.217	0.286	0.584	-0.099	-0.230
<u>FINISHED SURFACE LEVEL</u>	659.242	658.430	658.090	658.098	657.061	656.930
<u>NATURAL SURFACE LEVEL</u>	659.242	658.647	657.804	657.515	657.160	657.160
CHAINAGE	0.000	5.000	10.000	15.000	20.000	20.026

B SITE SECTION
C160 HORIZ. 1:125 - VERT. 1:25

NOTE
CUT AND FILL VOLUMES HAVE BEEN CALCULATED BASED ON
NATURAL SURFACE AND FINISHED SURFACE.

ISSUED FOR SWC APPROVAL

23/05/2024	A	ISSUED FOR SWC APPROVAL	BNB	MZ
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500
contact: 1300 017 736 www.premise.com.au

Premise

DESIGNED
TUNG PHAM

CHECKED
MICHA ZESCHKE

PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE

HORIZONTAL 1:125 (A1)

VERTICAL 1:25 (A1)

ORIGINAL SHEET SIZE A1

CLIENT

GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

SHEET TITLE
SITE SECTIONS - AA & BB

JOB CODE

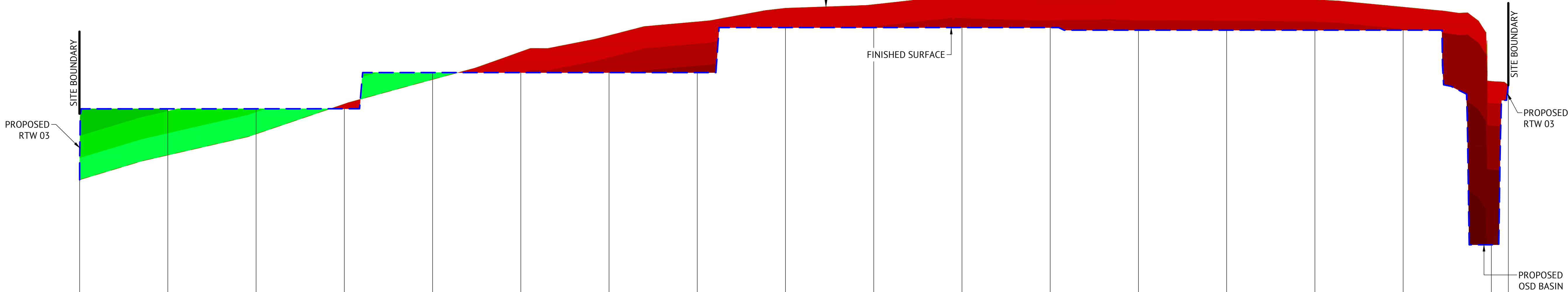
024965

SHEET NUMBER	REV
C161	A

CUT/FILL		
Colour	Depth Range (m)	
	-5.000	-2.000
	-2.000	-1.000
	-1.000	-0.500
	-0.500	-0.250
	-0.250	0.000
	0.000	0.250
	0.250	0.500
	0.500	1.000
	1.000	2.000
	2.000	5.000
	5.000	10.000

CUT

FILL



DATUM R.L. 653.000

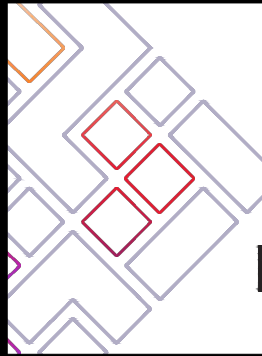
CUT/FILL	0.000		0.525		0.285		-0.054		0.079		-0.235		-0.419		-0.575		-0.219		-0.260		-0.354		-0.329		-0.358		-0.355		-0.345		-0.261		-1.852	0.000
FINISHED SURFACE LEVEL	656.735		657.539		657.540		657.540		657.950		657.950		657.950		657.950		658.460		658.460		658.460		658.460		658.430		658.430		658.430		658.430		656.000	657.806
NATURAL SURFACE LEVEL	656.735		657.015		657.254		657.594		657.871		658.185		658.369		658.525		658.679		658.720		658.814		658.789		658.788		658.785		658.775		658.691		657.852	657.806
CHAINAGE	0.000		5.000		10.000		15.000		20.000		25.000		30.000		35.000		40.000		45.000		50.000		55.000		60.000		65.000		70.000		75.000		80.000	80.960

C SITE SECTION
C160 HORIZ. 1:125 - VERT. 1:25

NOTE
CUT AND FILL VOLUMES HAVE BEEN CALCULATED BASED ON
NATURAL SURFACE AND FINISHED SURFACE.

ISSUED FOR SWC APPROVAL

23/05/2024	A	ISSUED FOR SWC APPROVAL	BNB	MZ	
DATE	REV	DESCRIPTION	REC	APP	
REVISIONS					



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ORAN PARK, NSW 2570
Ph. (02) 4632 6500
www.premise.com.au

DESIGNED
TUNG PHAM

CHECKED
MICHA ZESCHKE

PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE

HORIZONTAL 1:125 (A1)

VERTICAL 1:25 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

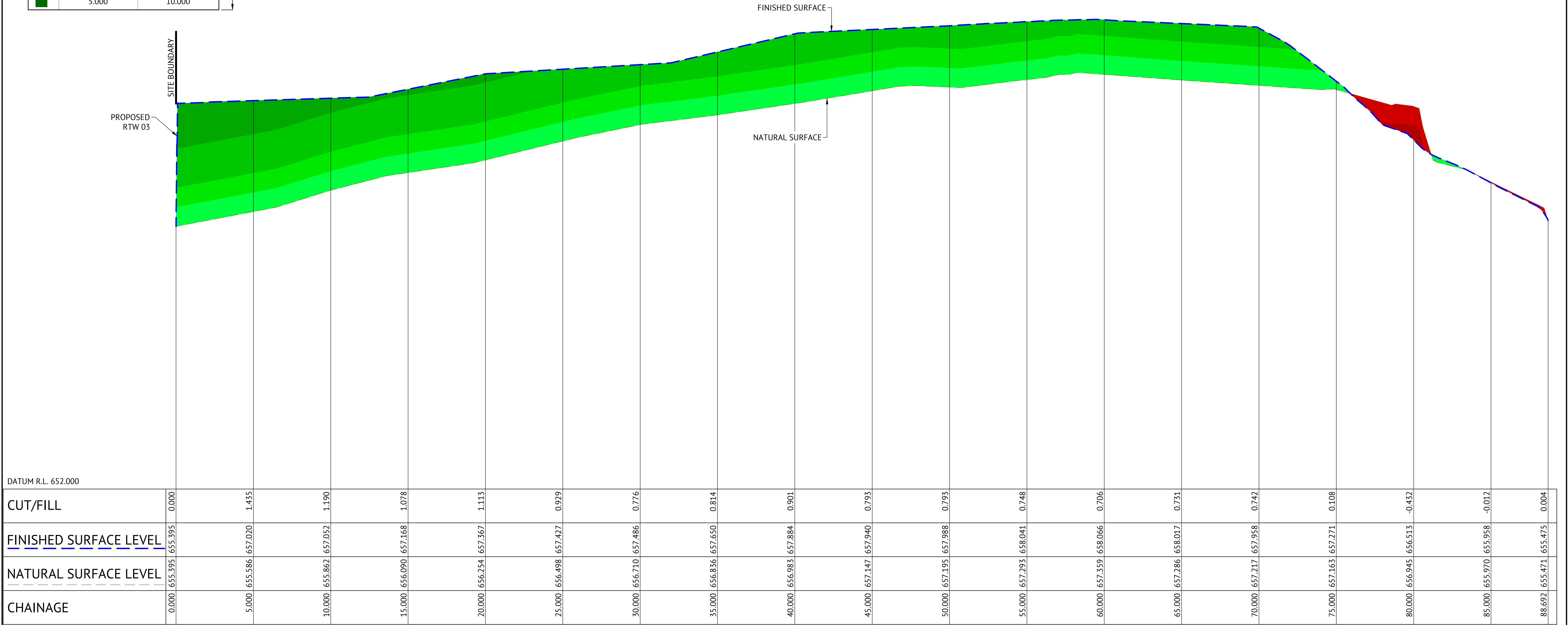
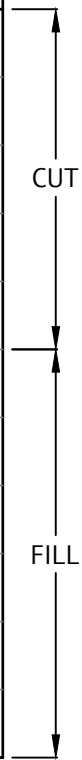
SHEET TITLE
SITE SECTIONS - CC

JOB CODE
024965

SHEET NUMBER
C162

REV
A

CUT/FILL		
Colour	Depth Range (m)	
	-5.000	-2.000
	-2.000	-1.000
	-1.000	-0.500
	-0.500	-0.250
	-0.250	0.000
	0.000	0.250
	0.250	0.500
	0.500	1.000
	1.000	2.000
	2.000	5.000
	5.000	10.000



E
C160

SITE SECTION
HORIZ. 1:125 - VERT. 1:25

NOTE
CUT AND FILL VOLUMES HAVE BEEN CALCULATED BASED ON
NATURAL SURFACE AND FINISHED SURFACE.

ISSUED FOR SWC APPROVAL

23/05/2024	A	ISSUED FOR SWC APPROVAL	BNB	MZ
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				

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ORAN PARK, NSW 2570
Ph. (02) 4632 6500
www.premise.com.au

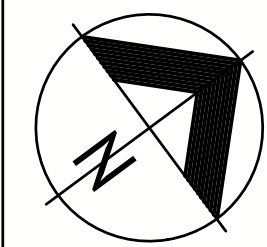
Premise

DESIGNED TUNG PHAM	SCALE
CHECKED MICHA ZESCHKE	HORIZONTAL 1:125 (A1)
PROJECT MANAGER MICHA ZESCHKE	VERTICAL 1:25 (A1)
ENGINEERING CERTIFICATION	ORIGINAL SHEET SIZE A1

MICHA ZESCHKE

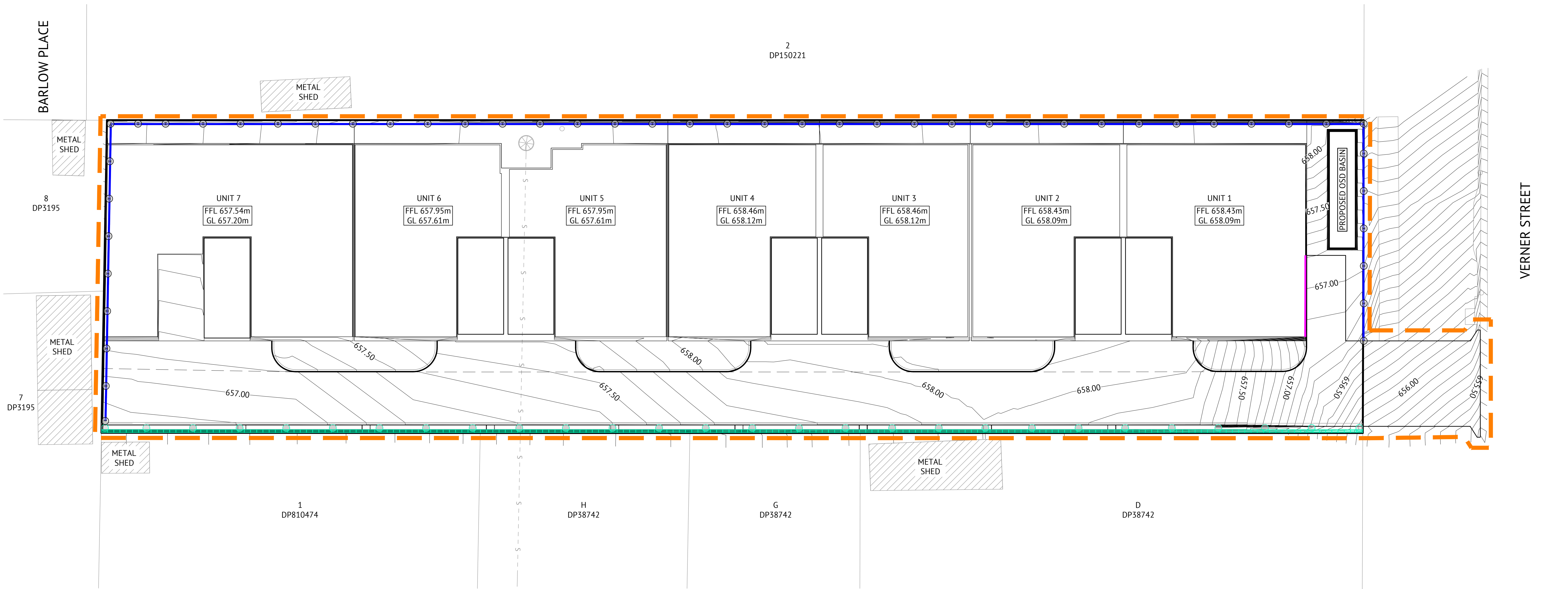
CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	SITE SECTIONS - EE

JOB CODE 024965	
SHEET NUMBER C164	REV A



LEGEND

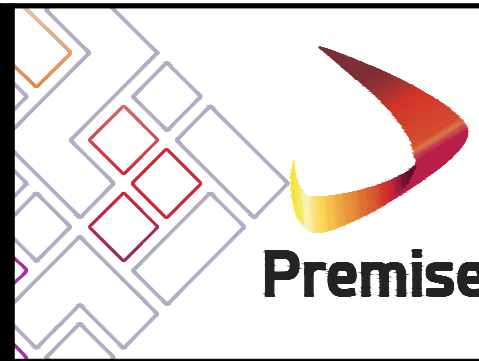
- EXTENT OF WORKS
- FINISHED CONTOUR (0.1m INTERVAL)
- PROPOSED KERB LINES
- PROPOSED BREAKLINE
- PROPOSED RETAINING WALL - TYPE 1
- PROPOSED RETAINING WALL - TYPE 2
- PROPOSED RETAINING WALL - TYPE 3
- EXISTING SEWER
- EXISTING SEWER MANHOLE



NOTES:
DESIGN CONTOURS SHOW REPRESENT FINISHED SURFACE LEVEL.

NOTES:
REFER TO SHEET C160 FOR CUT & FILL DEPTH RANGE.

ISSUED FOR SWC APPROVAL				
23/05/2024	A	ISSUED FOR SWC APPROVAL	BNB	MZ
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				



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ORAN PARK, NSW 2570
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contact: 1300 017 736 www.premise.com.au

DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE

SCALE 1:125 (A1)
0 2.5 5 7.5m

SCALE 1:250 (A3)
0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	SITE GRADING PLAN

JOB CODE	024965
SHEET NUMBER	C170
REV	A



LEGEND

- EXTENT OF WORKS
- 650.00

EXISTING CONTOUR MINOR (0.25m INTERVAL)
- 650.00

EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- 650.00

DESIGN CONTOUR MAJOR (0.50m INTERVAL)
- 650.00

DESIGN CONTOUR MINOR (0.10m INTERVAL)
- EXISTING BUILDING
- G

EXISTING GAS
- T

EXISTING TELSTRA
- NBN

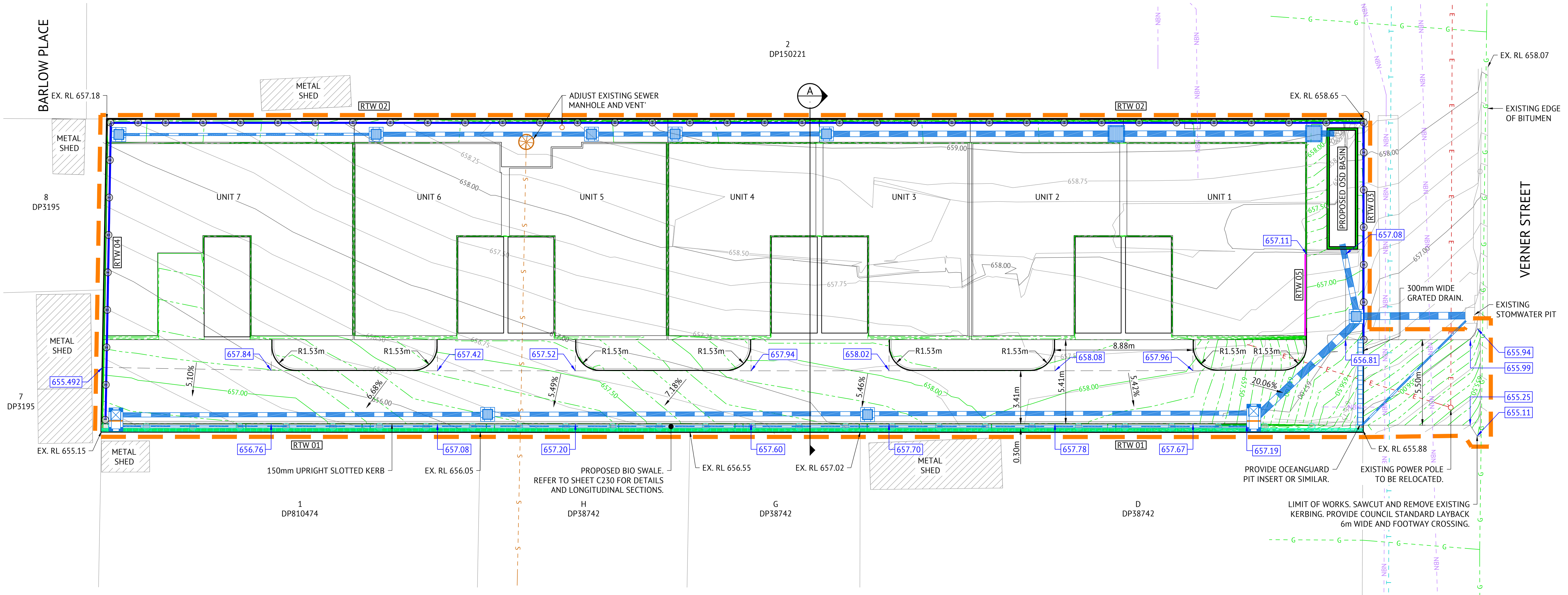
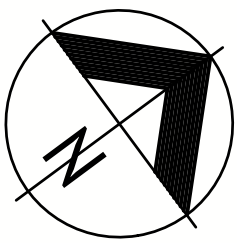
EXISTING NBN
- E

EXISTING ELECTRICITY
- PP

EXISTING POWER POLE
- S

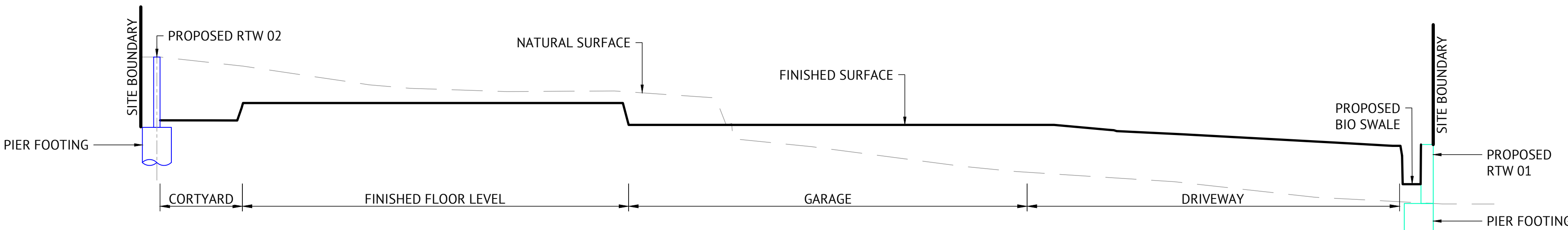
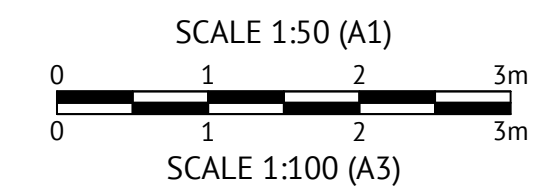
EXISTING SEWER
- EXISTING SEWER MANHOLE
- EXISTING KERB
- PROPOSED STORMWATER
- PROPOSED GRATED INLET PIT
- PROPOSED RETAINING WALL - TYPE 1
- PROPOSED RETAINING WALL - TYPE 2
- PROPOSED RETAINING WALL - TYPE 3
- PROPOSED KERB LINES
- PROPOSED BREAKLINE
- 650.00

SPOT LEVEL



NOTES:

1. 5,500 LITRE TANKS WITH BOTTOM 300mm FOR MIN STORAGE FOR POTABLE TO TRIGGER HOUSEHOLD USAGE..



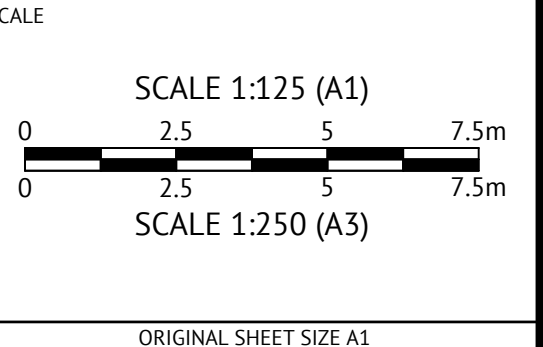
SECTION A - TYPICAL SECTION
SCALE 1:50

ISSUED FOR SWC APPROVAL				
23/05/2024	A	ISSUED FOR SWC APPROVAL	BNB	MZ
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
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Premise
contact: 1300 017 736 www.premise.com.au

DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE



GOULBURN PROJECTS	
CLIENT	
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	PLAN OF CIVIL WORKS AND DETAIL

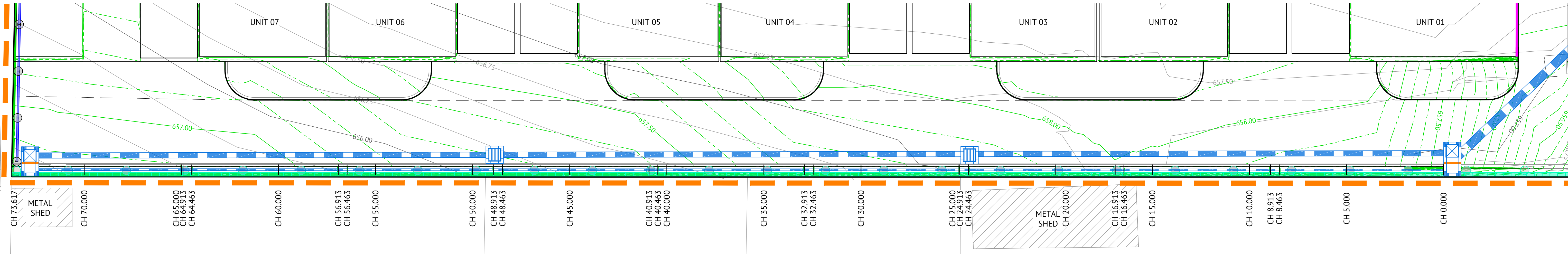
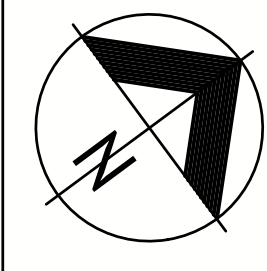
JOB CODE	
024965	
SHEET NUMBER	REV
C200	A



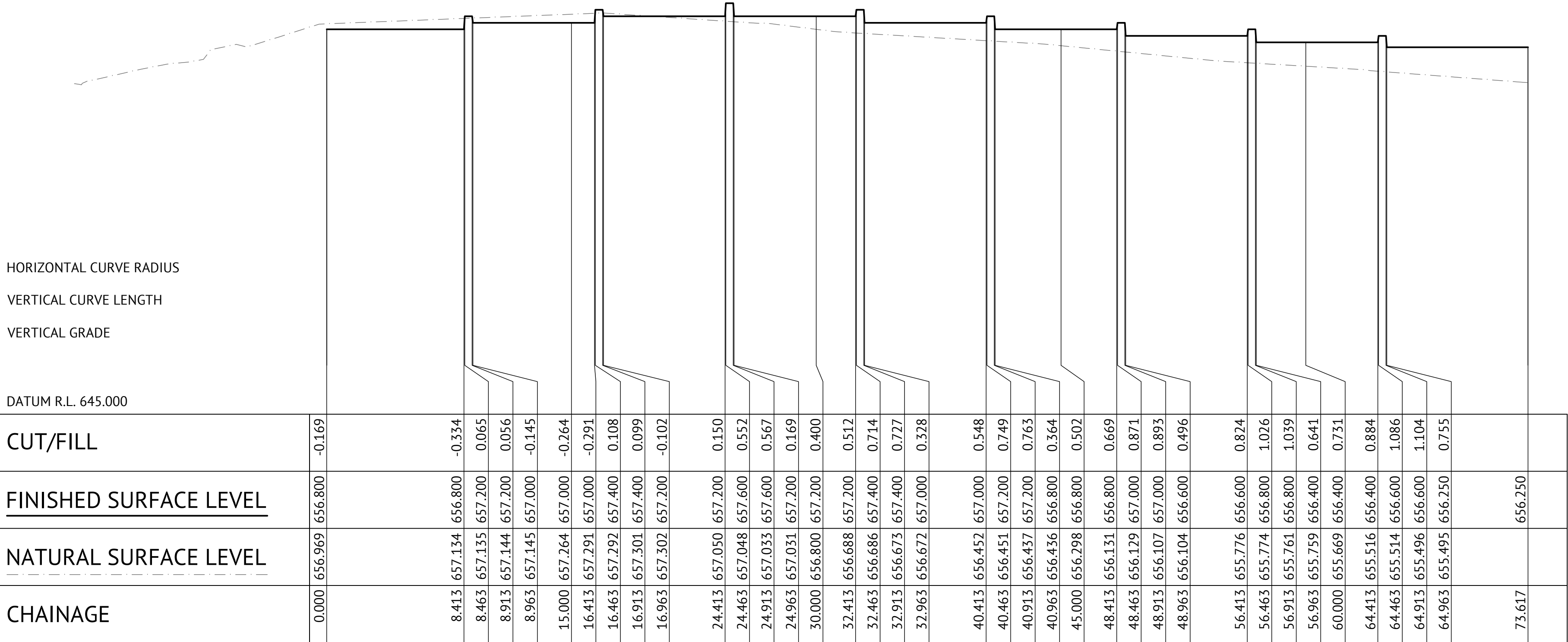
LEGEND

- EXTENT OF WORKS
- EXISTING BUILDING
- EXISTING CONTOUR MINOR (0.25m INTERVAL)
- EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- DESIGN CONTOUR MAJOR (0.50m INTERVAL)
- DESIGN CONTOUR MINOR (0.10m INTERVAL)

- PROPOSED STORMWATER
- PROPOSED GRATED INLET PIT
- PROPOSED KERB LINES
- PROPOSED RETAINING WALL - TYPE 1
- PROPOSED RETAINING WALL - TYPE 2
- PROPOSED RETAINING WALL - TYPE 3



BIO SWALE PLAN
SCALE 1:100



LONGITUDINAL SECTION - ALIGNMENT BIO SWALE

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:100

ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				



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ORAN PARK, NSW 2570
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DESIGNED
TUNG PHAM

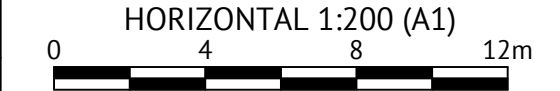
CHECKED
MICHA ZESCHKE

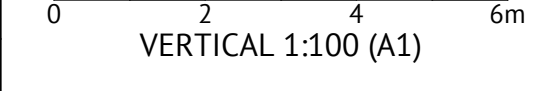
PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE


HORIZONTAL 1:200 (A1)


VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

SHEET TITLE
BIO SWALE PLAN, DETAILS AND LONGITUDINAL SECTIONS

JOB CODE
024965

SHEET NUMBER
C230

REV
A

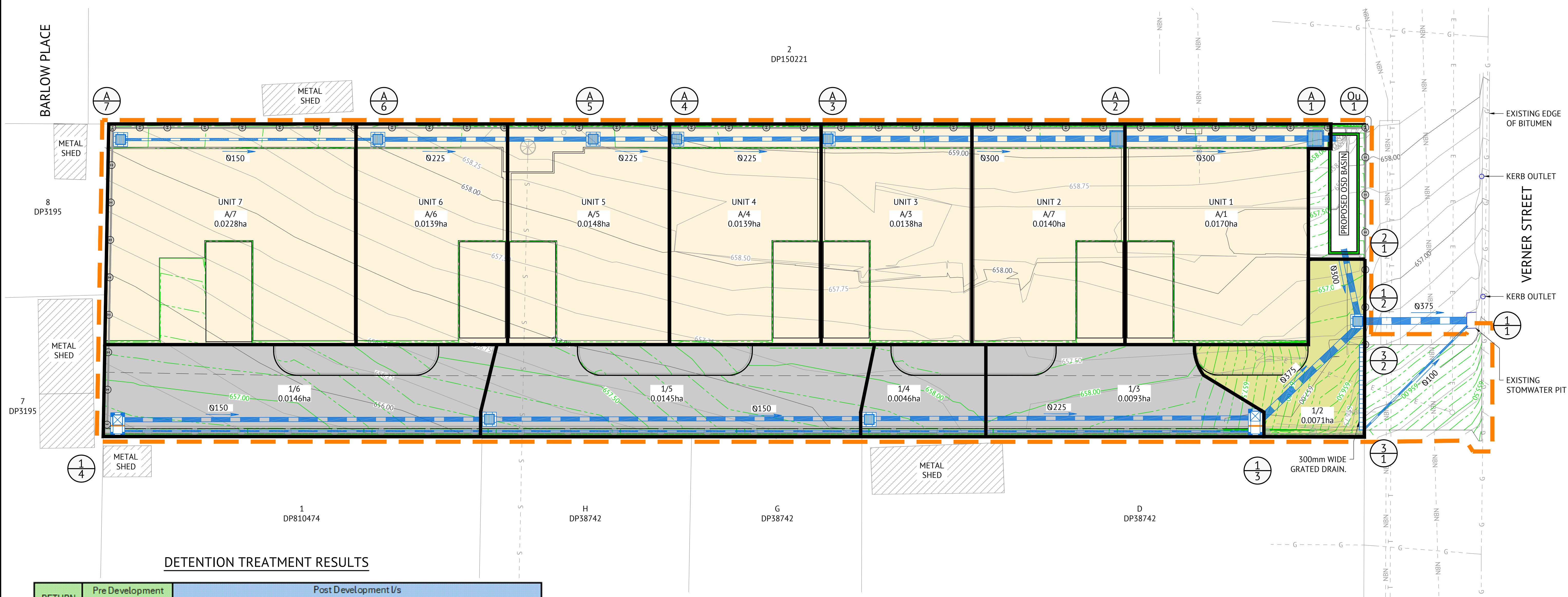
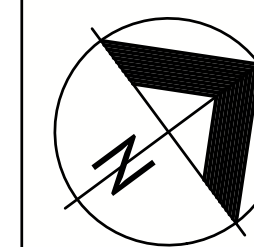
LEGEND

-
-  EXTENT OF WORKS
 650.00 EXISTING CONTOUR MINOR (0.25m INTERVAL)
 650.00 EXISTING CONTOUR MAJOR (1.00m INTERVAL)
 650.00 DESIGN CONTOUR MAJOR (0.50m INTERVAL)
 DESIGN CONTOUR MINOR (0.10m INTERVAL)
 EXISTING BUILDING

- | | |
|--|------------------------|
| — — — G — — — | EXISTING GAS |
| — — — T — — — | EXISTING TELSTRA |
| — — — NBN — — — | EXISTING NBN |
| — — — E — — — | EXISTING ELECTRICITY |
|  PP | EXISTING POWER POLE |
| — — — S — — — | EXISTING SEWER |
|  | EXISTING SEWER MANHOLE |
| ===== | EXISTING KERB |

-
- Diagram illustrating various proposed features for a drainage system:
- PROPOSED STORMWATER
 - PROPOSED GRATED INLET PIT
 - PROPOSED RETAINING WALL TYPE 1
 - PROPOSED RETAINING WALL TYPE 2
 - PROPOSED RETAINING WALL TYPE 3
 - PROPOSED KERB LINES
 - PROPOSED BREAKLINE
 - LINE NUMBER
 - PIT NUMBER

- | | |
|---|---|
|  | SUB_CATCHMENT WITHIN
INTERNAL DRIVEWAY |
|  | SUB_CATCHMENT WITHIN
RESIDENTIAL LOTS |
|  | SUB_CATCHMENT
BYPASSING SWALE |



DETENTION TREATMENT RESULTS

RETURN	Pre Development I/s	Post Development I/s				
		Roof*	Driveway	Courtyard	Bypass	TOTAL
5	15	0	8	1	1	10
10	21	0	9	2	1	12
20	25	0	11	2	1	14
50	32	0	12	3	2	17
100	37	0	13	3	2	18

⁴ Rainwater Tank designed to cater for 100 yr event and for reuse within household to keep 100 yr capacity

ISSUED FOR SWC APPROVAL

[illegible]

DESIGNED	TUNG PHAM
CHECKED	MICHA ZESCHKE
PROJECT MANAGER	MICHA ZESCHKE
ENGINEERING CERTIFICATION	
MICHA ZESCHKE	

SCALE

SCALE 1:125 (A1)

0 2.5 5 7.5m

0 2.5 5 7.5m

SCALE 1:250 (A3)

ORIGINAL SHEET SIZE A1

CLIENT

PROJECT

LOCATION

SHEET TITLE:

GOULBURN PROJECTS

PROPOSED COMMUNITY TITLE SUBDIVISION

62 VERNER STREET, GOULBURN, NSW 2580

STORMWATER MODELLING RESULTS AND CATCHMENT PLAN

	JOB CODE
--	----------

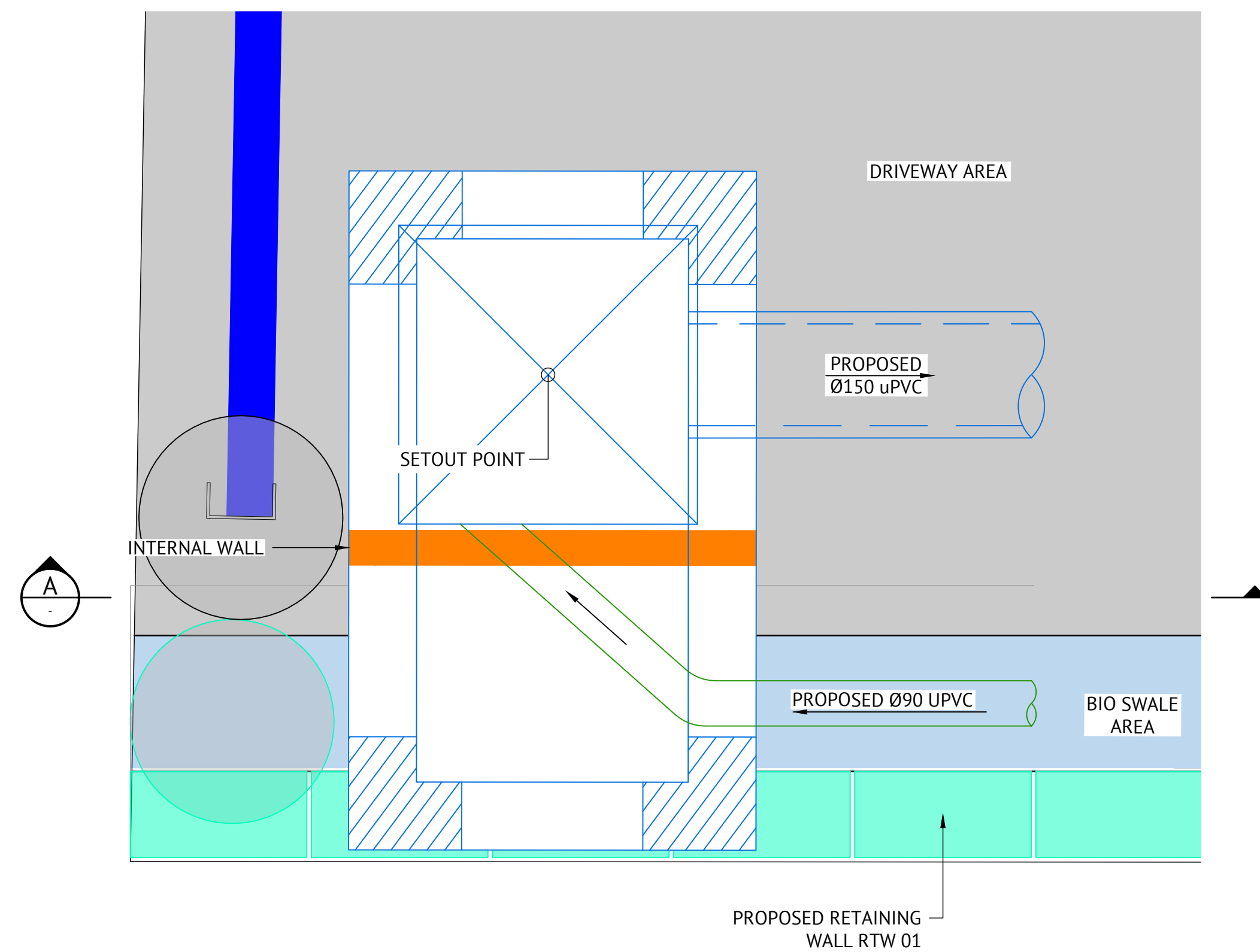
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SHEET NUMBER

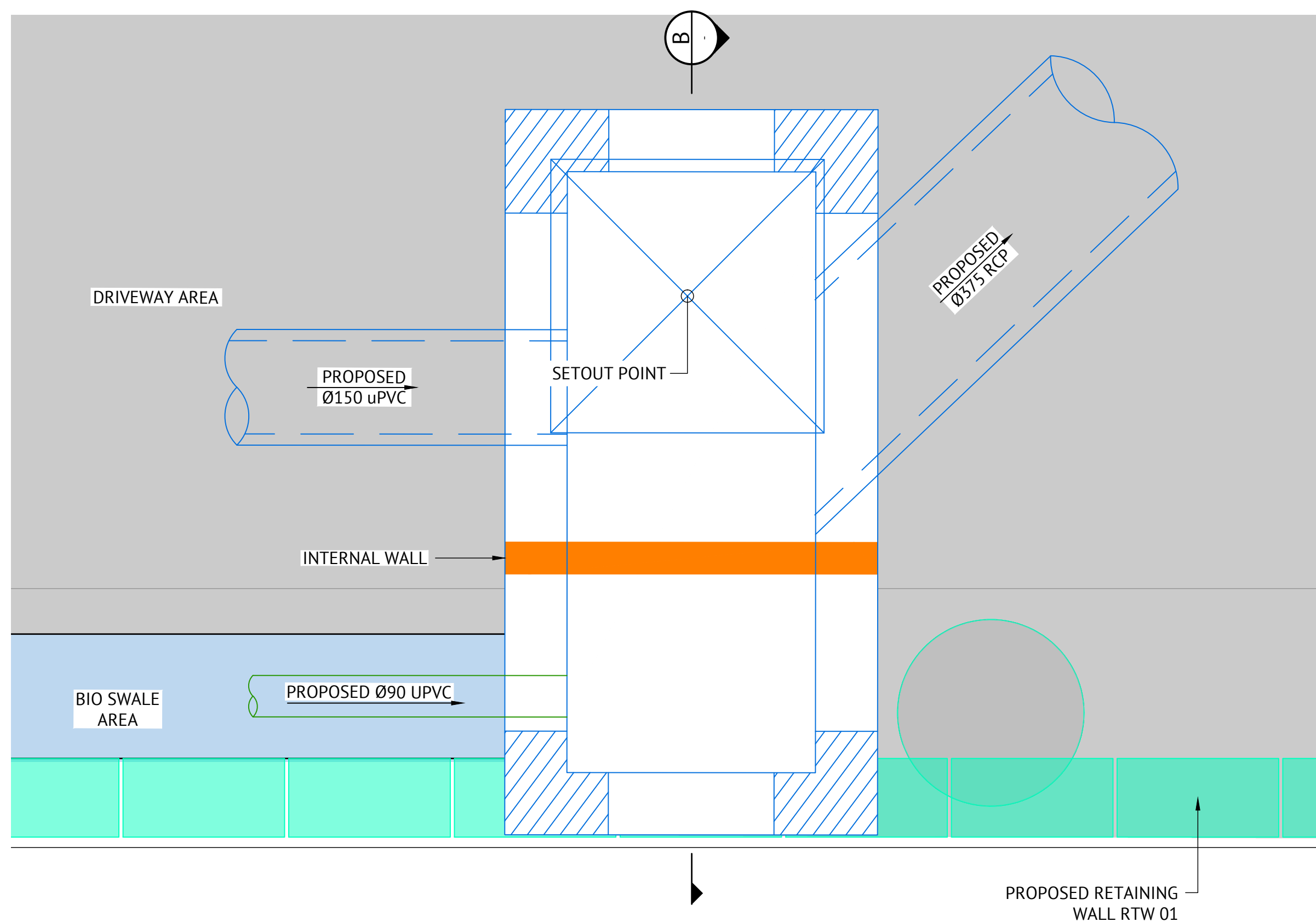
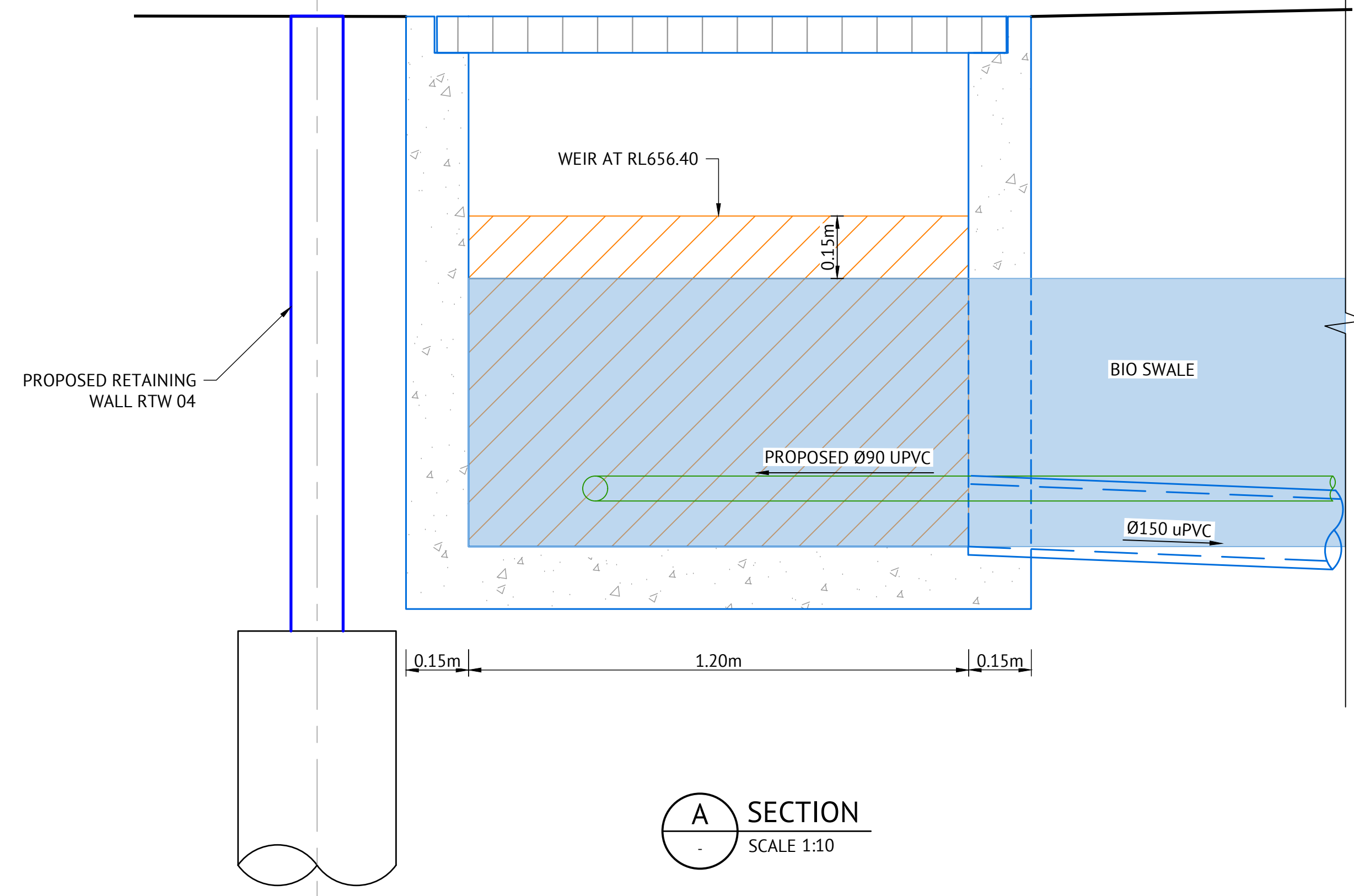
C250

	REV
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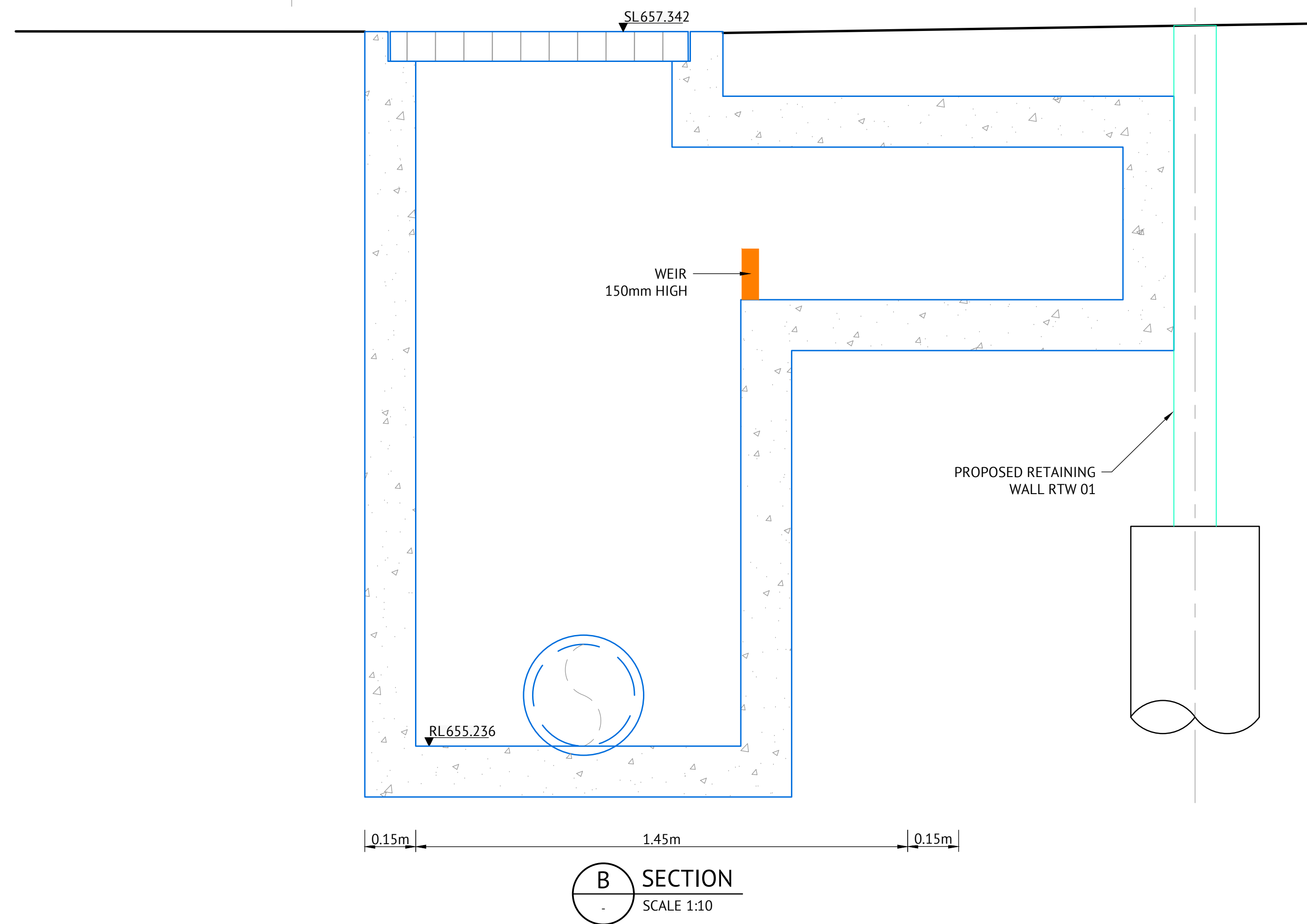
A



DETAIL 1 - SPLITTER PIT 1/4
SCALE 1:10



DETAIL 2 - SPLITTER PIT 1/3
SCALE 1:10



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				

ORAN PARK OFFICE
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351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500
www.premise.com.au

Premise

DESIGNED
TUNG PHAM

CHECKED
MICHA ZESCHKE

PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE

SCALE 1:10 (A1)

0 0.2 0.4 0.6m

SCALE 1:20 (A3)

0 0.2 0.4 0.6m

ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

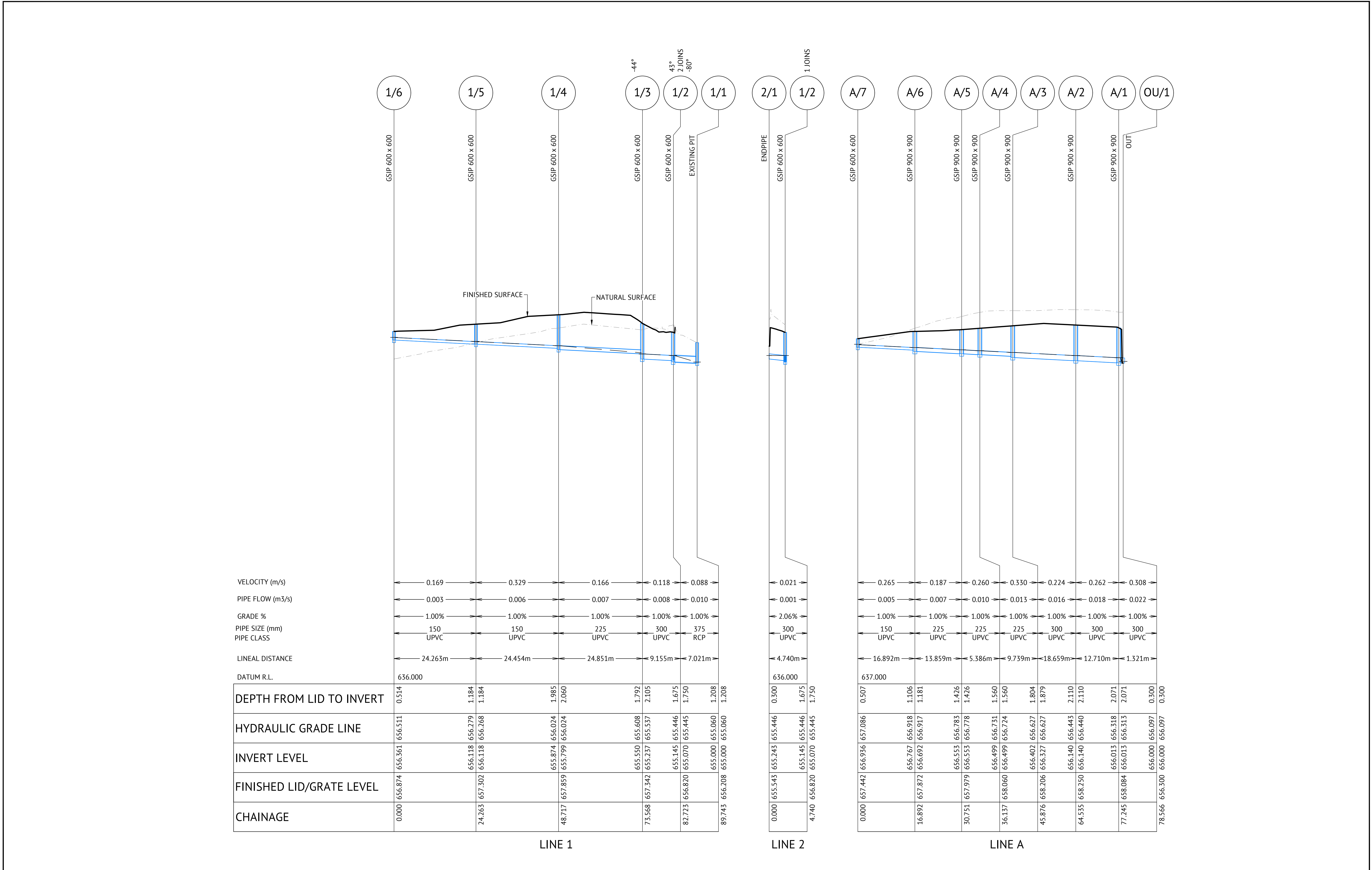
LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

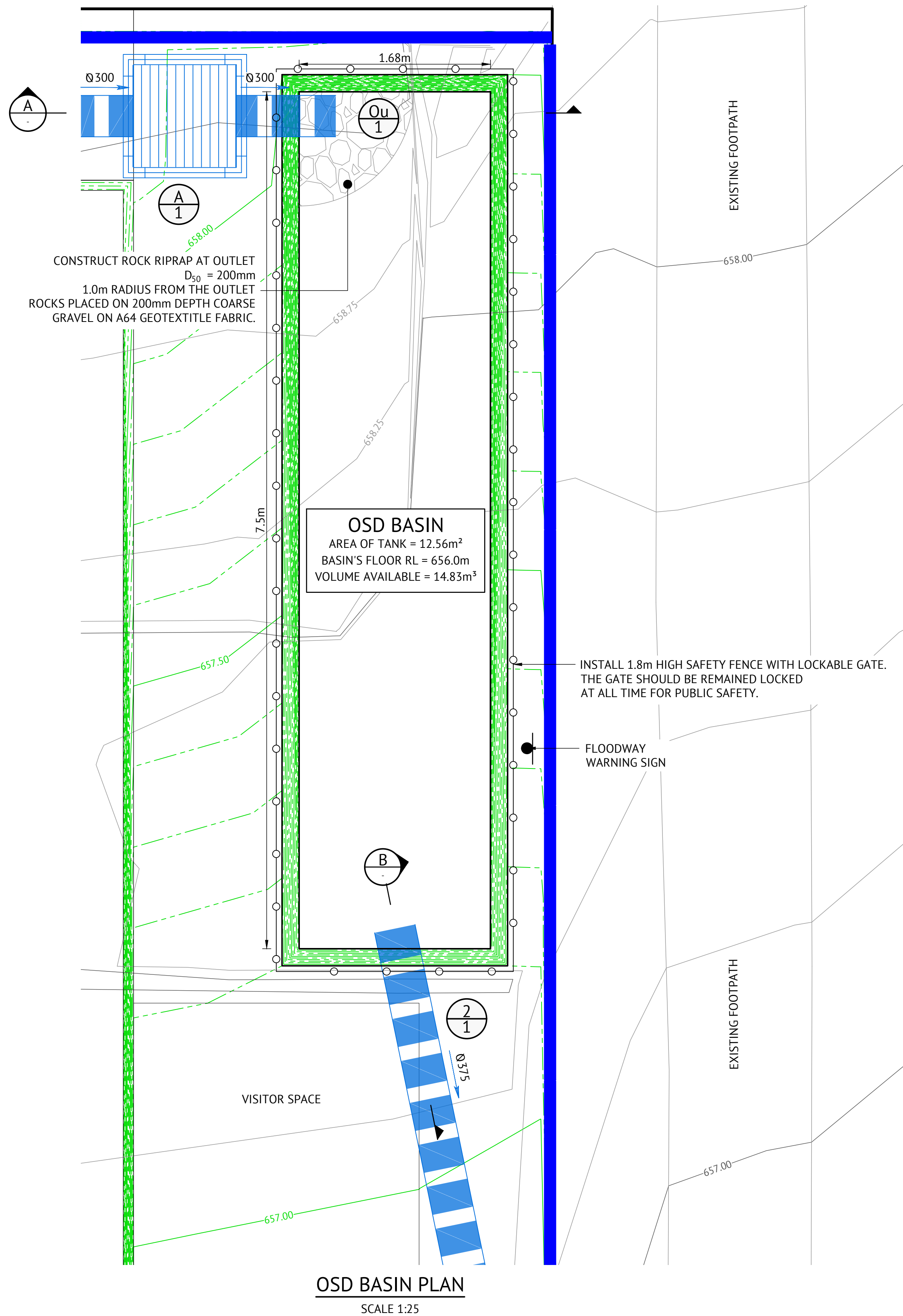
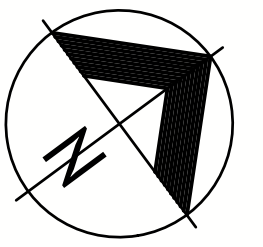
SHEET TITLE
SPECIAL CHAMPER PIT DETAILS

JOB CODE
024965

SHEET NUMBER
C255

REV
A





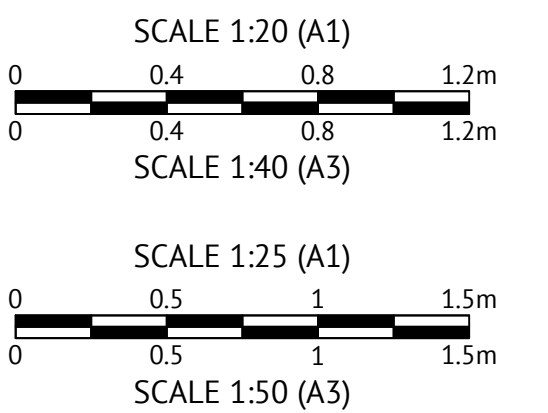
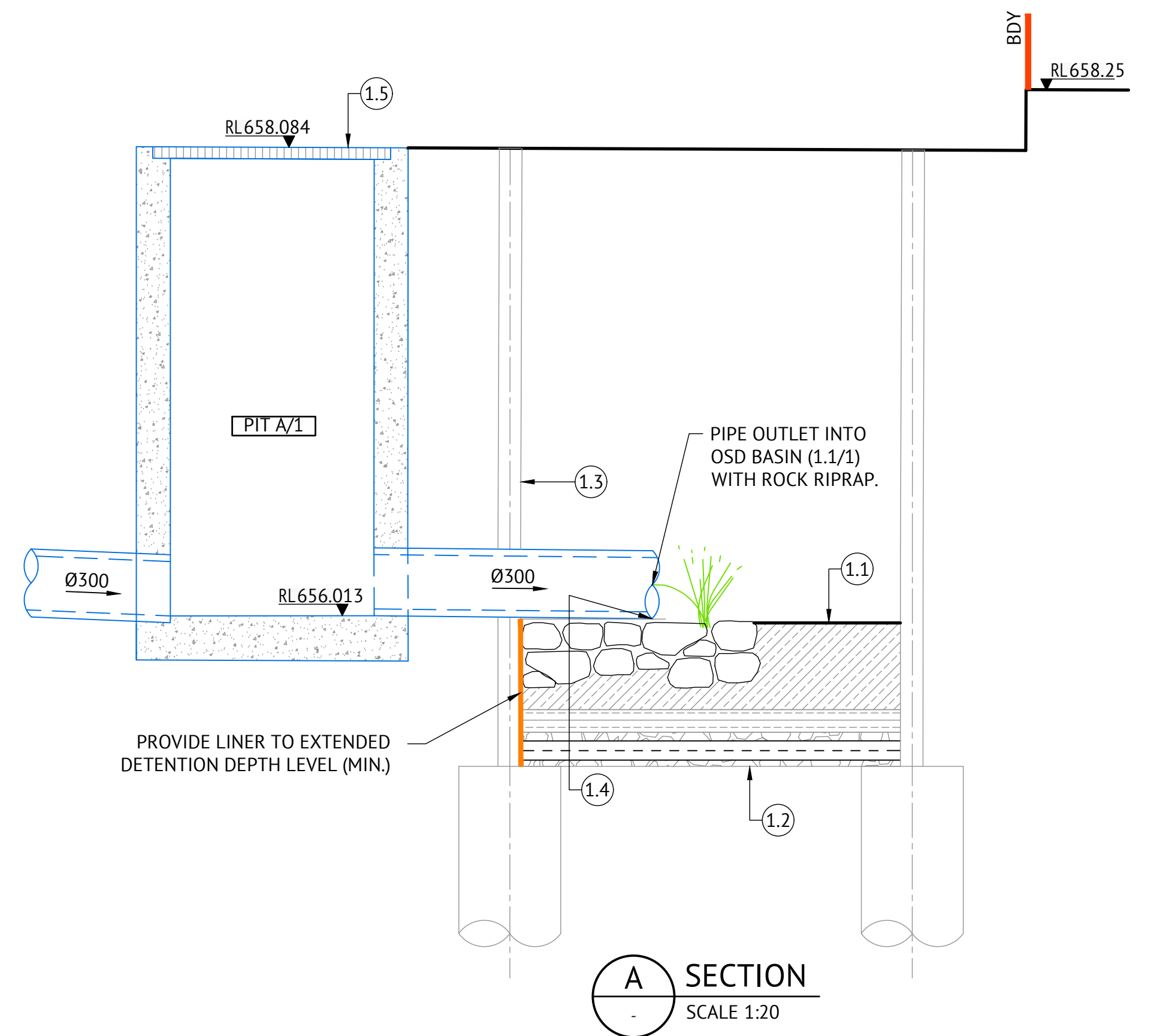
LEGEND

- EXISTING CONTOUR MINOR (0.25m INTERVAL)
- EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- DESIGN CONTOUR MAJOR (0.50m INTERVAL)
- DESIGN CONTOUR MINOR (0.10m INTERVAL)
- PROPOSED STORMWATER
- PROPOSED GRATED INLET PIT
- PROPOSED RETAINING WALL
- LINE NUMBER
- PIT NUMBER
- 1.8m HEIGHT AROUND THE OSD PERIMETER WITH LOCKABLE GATE AT THE ACCESS RAMP



FLOOD SIGN
SCALE NTS

DETNOTES (#)	DETAILS
1.1	BIORETENTION CELL'S SURFACE
1.2	LINER WITH A34 GEOTEXTILE FABRIC OVER AND UNDER
1.3	RETAINING WALL & FOOTING (BY STRUCTURAL ENGINEER)
1.4	INVERT LEVEL RL656.00 OF PIPE OULET TO THE BASIN
1.5	OVERFLOW CONTROL PIT WITH GRATE COVER



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500
www.premise.com.au

Premise

DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

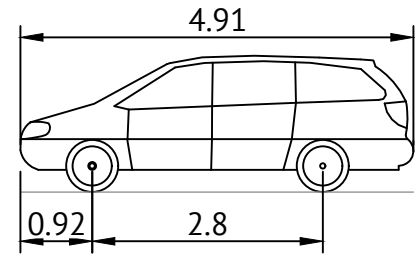
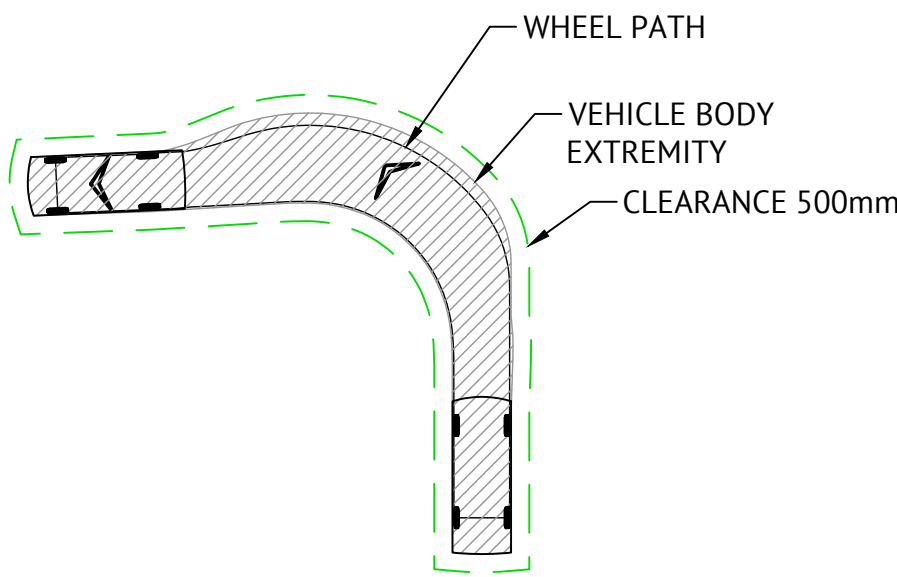
SCALE
AS SHOWN
ORIGINAL SHEET SIZE A1

CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	OSD BASIN & DETAILS

JOB CODE	024965
SHEET NUMBER	C300
REV	A

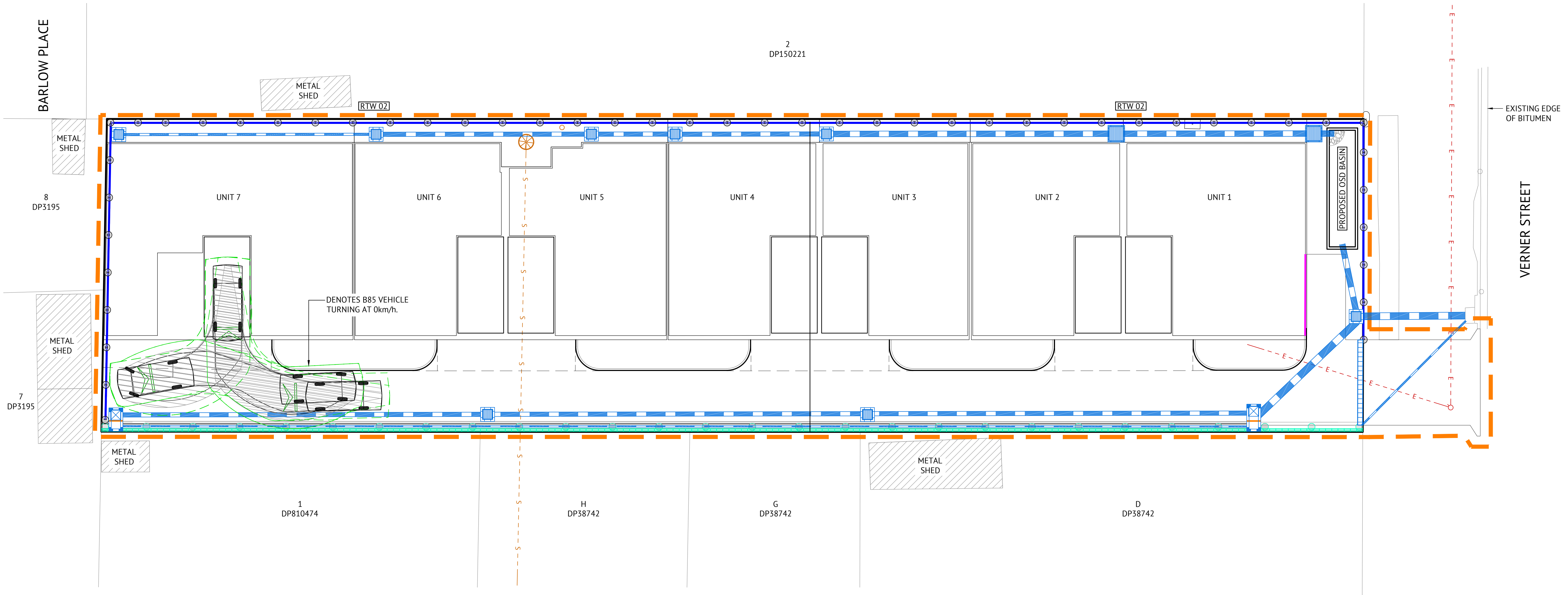
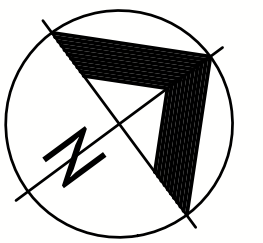


LEGEND



OVERALL LENGTH 4.910m
OVERALL WIDTH 1.870m
OVERALL BODY HEIGHT 1.421m
MIN BODY GROUND CLEARANCE 0.159m
TRACK WIDTH 1.770m
LOCK TO LOCK TIME 4.0s
KERB TO KERB TURNING RADIUS 5.750m
TURNING SPEED 0km/h

B85 VEHICLE
NOT TO SCALE



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
26/04/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
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contact: 1300 017 736 www.premise.com.au

DESIGNED TUNG PHAM
CHECKED MICHA ZESCHKE
PROJECT MANAGER MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE

SCALE 1:125 (A1)
0 2.5 5 7.5m

SCALE 1:250 (A3)
0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

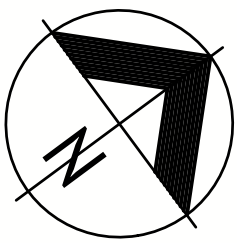
CLIENT	GOULBURN PROJECTS
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580
SHEET TITLE	TURING PATH

JOB CODE	024965
SHEET NUMBER	C350
REV	A



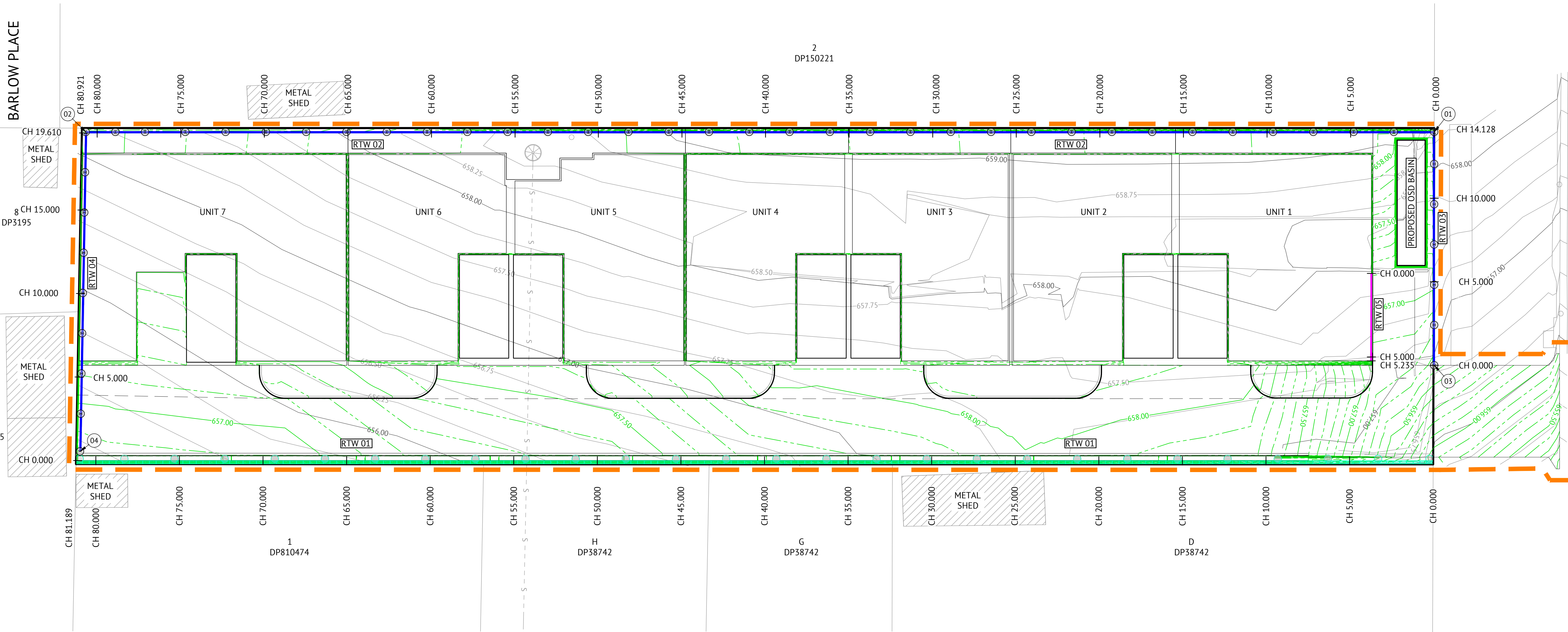
LEGEND

- EXTENT OF WORKS
- EXISTING CONTOUR MINOR (0.25m INTERVAL)
- EXISTING CONTOUR MAJOR (1.00m INTERVAL)
- DESIGN CONTOUR MAJOR (0.50m INTERVAL)
- DESIGN CONTOUR MINOR (0.10m INTERVAL)
- PROPOSED RETAINING WALL - TYPE 1
- PROPOSED RETAINING WALL - TYPE 2
- PROPOSED RETAINING WALL - TYPE 3
- PROPOSED KERB LINES
- PROPOSED BREAKLINE
- EXISTING BUILDING
- EXISTING KERB
- EXISTING SEWER
- EXISTING SEWER MANHOLE



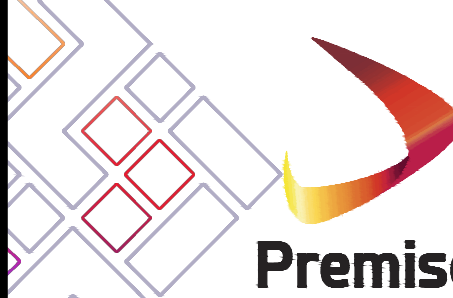
BARLOW PLACE

VERNER STREET



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		
REVISIONS				



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contact: 1300 017 736 www.premise.com.au

DESIGNED
TUNG PHAM

CHECKED
MICHA ZESCHKE

PROJECT MANAGER
MICHA ZESCHKE

ENGINEERING CERTIFICATION

MICHA ZESCHKE

SCALE

SCALE 1:125 (A1)
0 2.5 5 7.5m

SCALE 1:250 (A3)
0 2.5 5 7.5m

ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

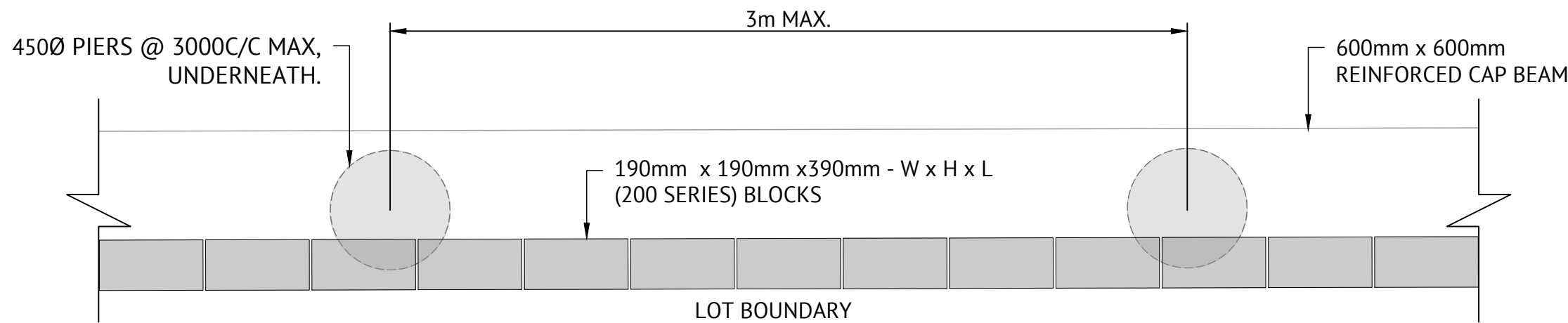
LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

SHEET TITLE
RETAINING WALL PLAN

JOB CODE
024965

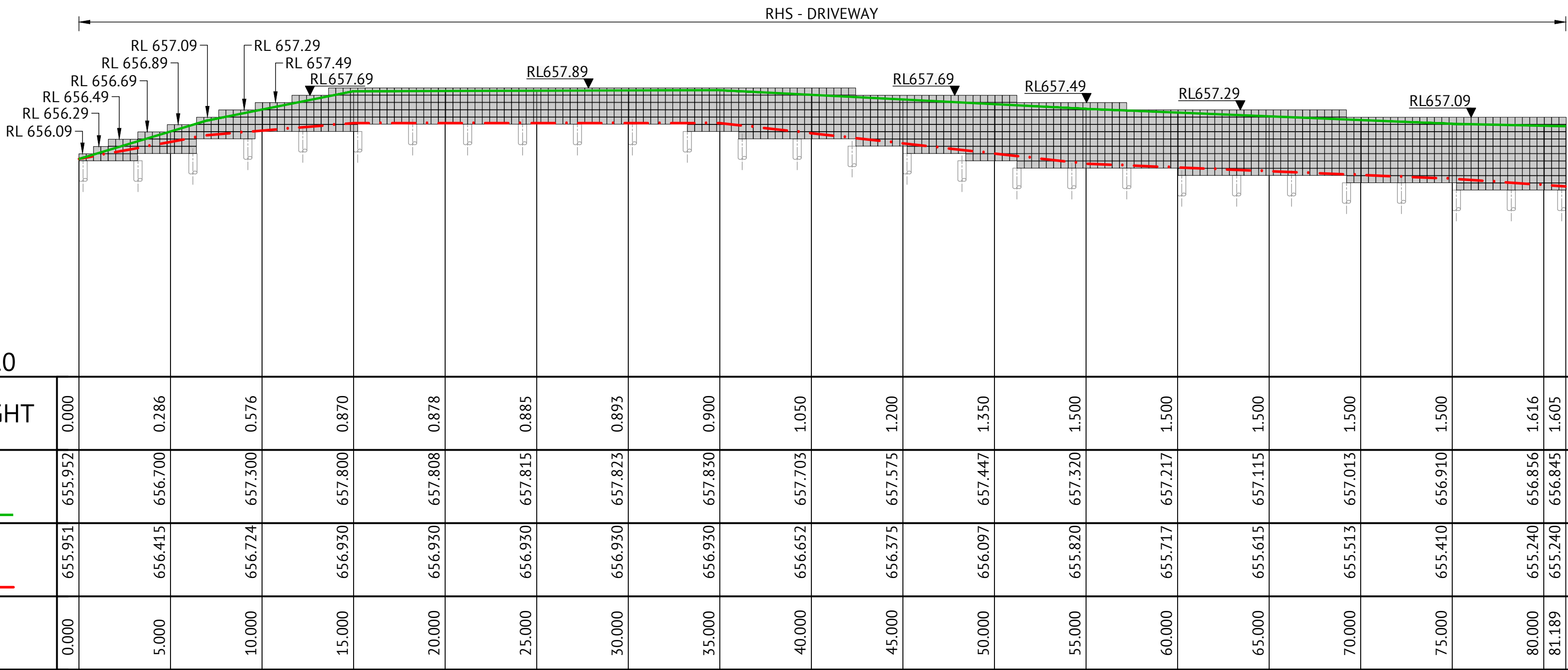
SHEET NUMBER
C400

REV
A

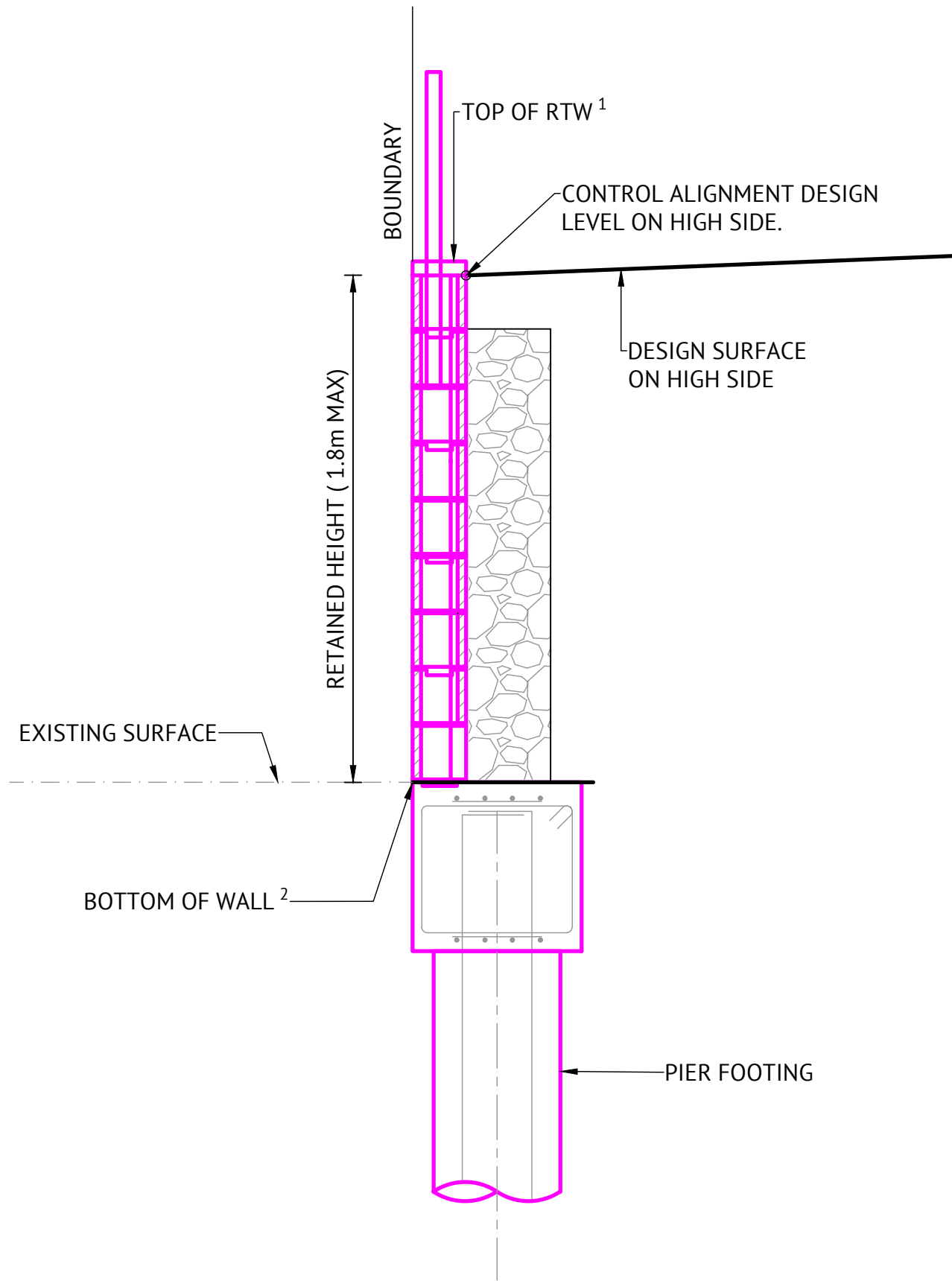


TYPICAL PLAN VIEW - BLOCK RETAINING WALL - TYPE 1
SCALE 1:20

- NOTES:
1. TOP OF RETAINING WALL IS AT DESIGN LEVEL ON THE HIGH SIDE OR SLIGHTLY LESS.
 2. BOTTOM OF RETAINING WALL IS 200mm (MAX) BELOW THE DESIGN LEVEL ON THE LOW SIDE.
 3. FOOTING FOR RETAINING WALL IS BY STRUCTURAL ENGINEERS.



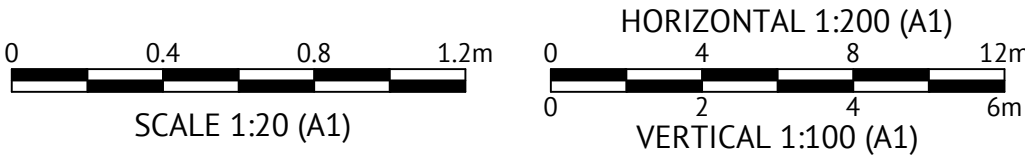
RETAINIGN WALL RTW 01 LONGITUDINAL SECTION
SCALE 1:200 HORIZ. 1: 100 VERT.



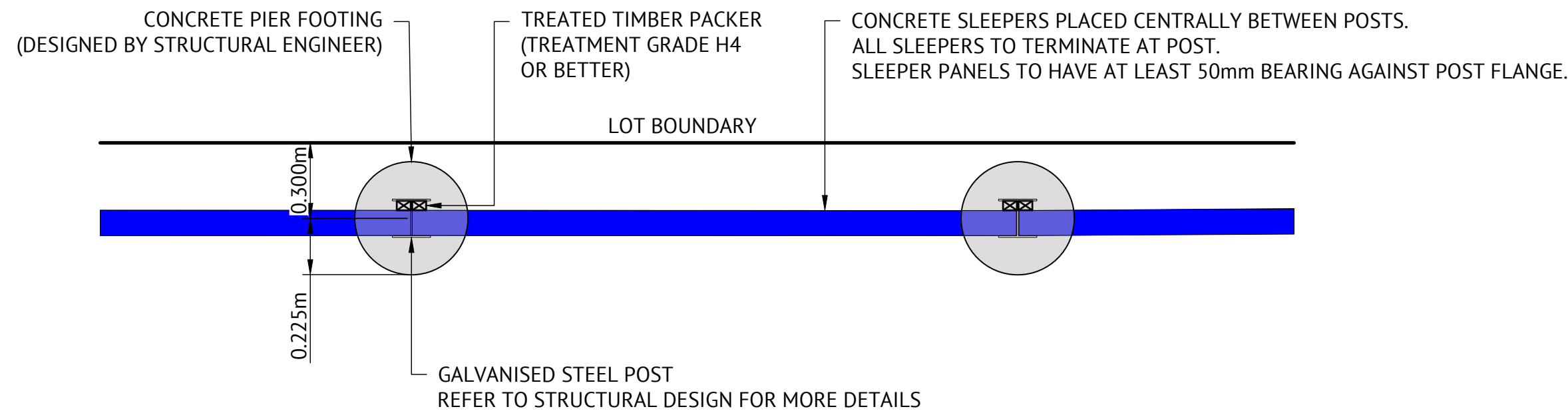
WALL TYPICAL SECTION - TYPE 1
SCALE 1:20

LEGEND

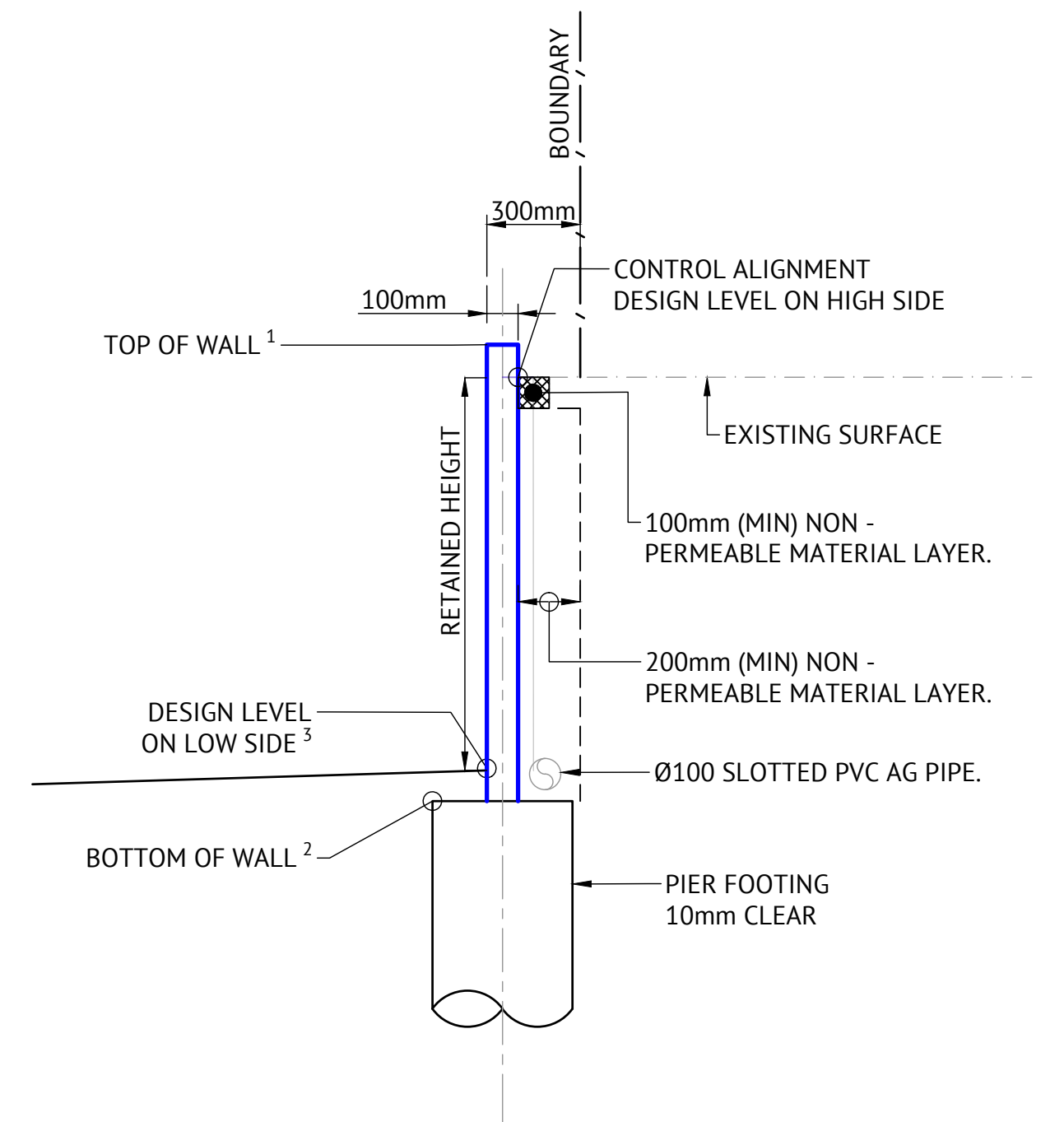
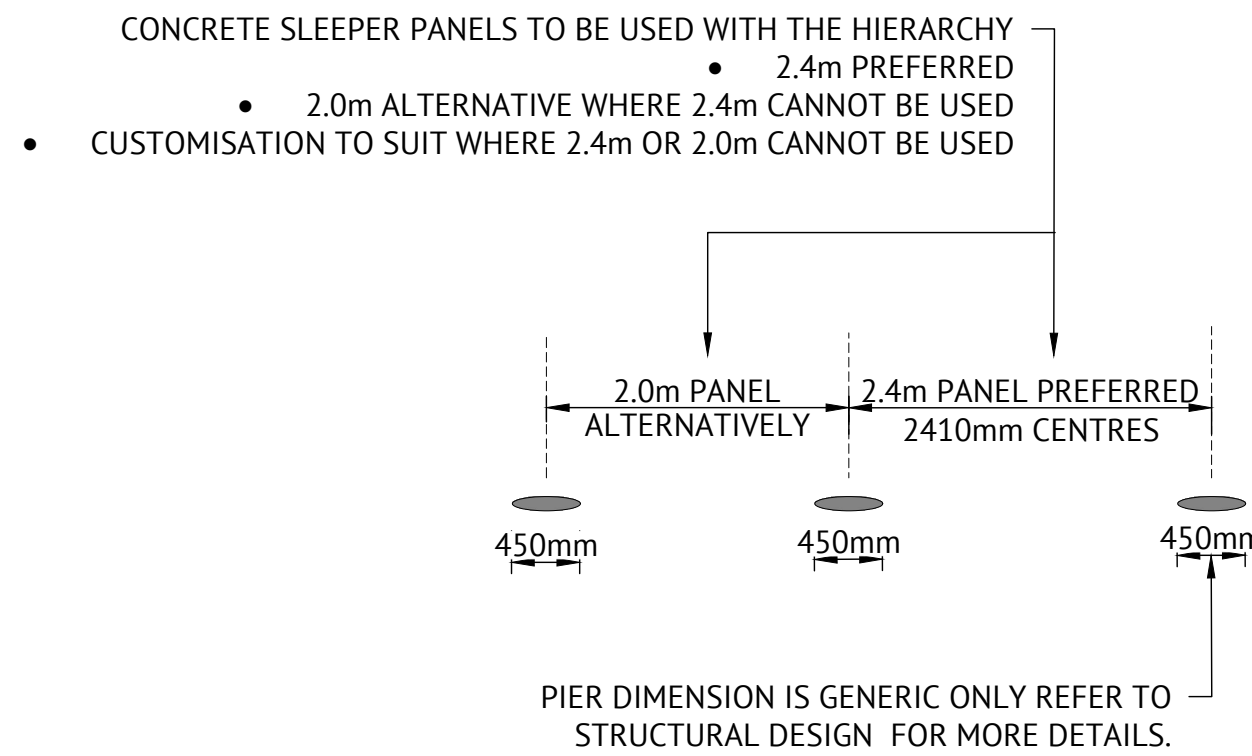
BLOCK UNIT 190x190x390mm (WxHxL)
(200 SERIES)



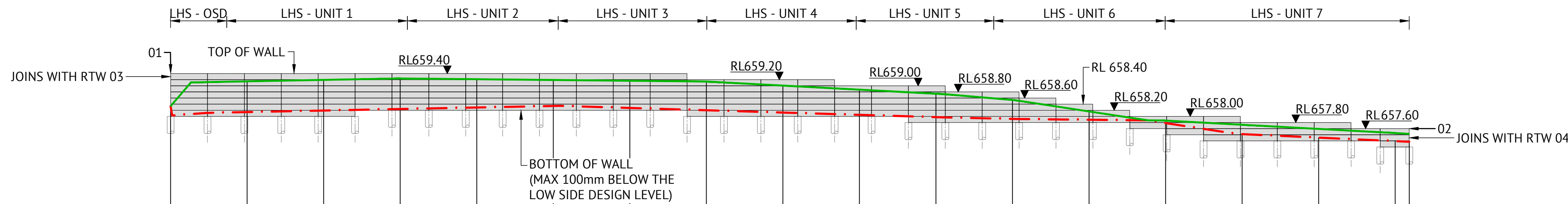
ISSUED FOR SWC APPROVAL				 ORAN PARK OFFICE SUITE 301, LEVEL 3 ORAN PARK PODIUM 351 ORAN PARK DRIVE ORAN PARK, NSW 2570 Ph. (02) 4632 6500 contact: 1300 017 736 www.premise.com.au		DESIGNED TUNG PHAM		SCALE AS SHOWN ORIGINAL SHEET SIZE A1	CLIENT GOULBURN PROJECTS		JOB CODE 024965	
		CHECKED MICHA ZESCHKE				PROJECT			PROPOSED COMMUNITY TITLE SUBDIVISION			
		PROJECT MANAGER MICHA ZESCHKE				LOCATION			62 VERNER STREET, GOULBURN, NSW 2580			
		ENGINEERING CERTIFICATION				SHEET TITLE			RETAINING WALL LONG SECTION - SHEET 1 OF 3			
23/05/2024		A		ISSUED FOR SWC APPROVAL		BNB		MZ		SHEET NUMBER C410		
DATE		REV		DESCRIPTION		REC		APP		REV A		
REVISIONS												



TYPICAL PLAN VIEW CONCRETE SLEEPER RETAINING WALL AT THE NORTHERN BOUNDARY
SCALE 1:20



WALL TYPICAL SECTION - TYPE 2
SCALE 1:20



Datum R.L.652.0

RETAINED HEIGHT	0.000	1.005	1.002	1.000	0.975	0.850	0.889	0.939	0.881	0.823	0.765	0.618	0.272	0.081	0.305	0.285	0.264	0.264
DESIGN LEVEL ON HIGH SIDE	658.336	659.145	659.193	659.240	659.215	659.190	659.165	659.140	659.007	658.873	658.740	658.537	658.162	657.862	657.727	657.591	657.455	657.455
DESIGN LEVEL ON LOW SIDE	658.336	658.140	658.190	658.240	658.290	658.340	658.276	658.201	658.126	658.050	657.975	657.919	657.891	657.781	657.421	657.306	657.191	657.191
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	80.971

RETAINIGN WALL RTW 02 LONGITUDINAL SECTION
SCALE 1:200 HORIZ. 1: 100 VERT.

SETOUT TABLE

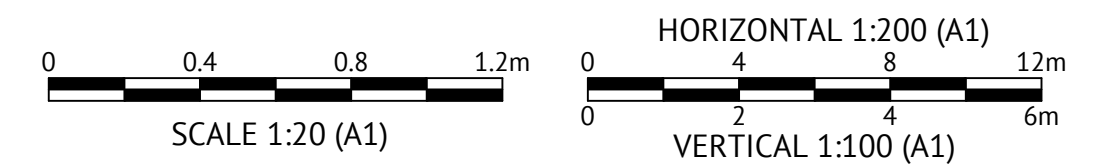
POINTS	EASTING	NORTHING
01	4877.330	5036.951
02	4829.459	4972.024

NOTES:

- TOP OF RETAINING WALL IS AT DESIGN LEVEL ON THE HIGH SIDE OR SLIGHTLY LESS.
- BOTTOM OF RETAINING WALL IS 200mm (MAX) BELOW THE DESIGN LEVEL ON THE LOW SIDE.
- FOOTING FOR RETAINING WALL IS BY STRUCTURAL ENGINEERS.

LEGEND

PROPOSED RETAINING WALL



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		

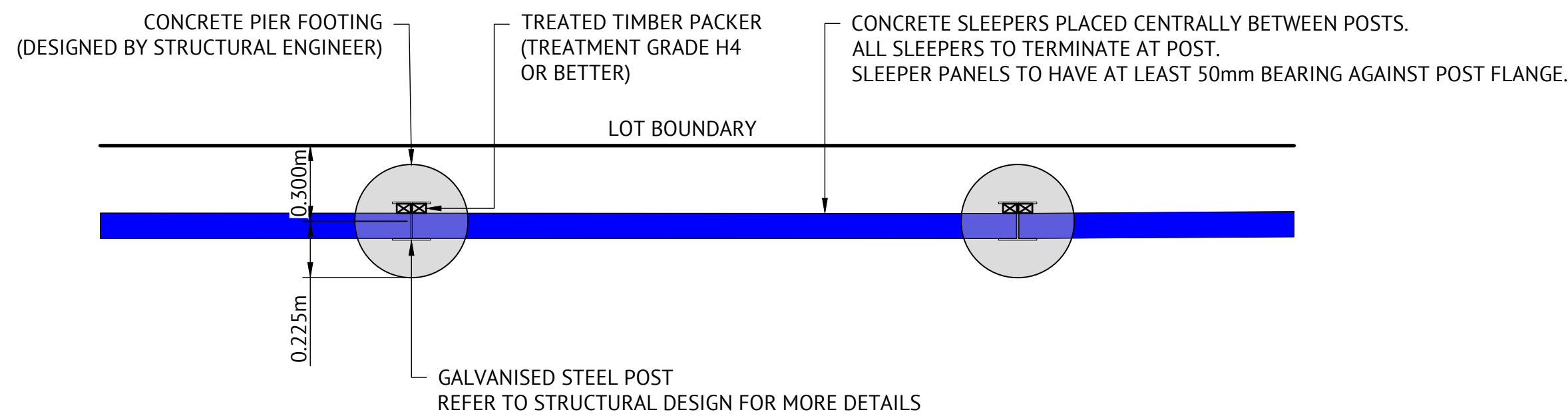
ORAN PARK OFFICE
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ORAN PARK, NSW 2570
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www.premise.com.au

Premise

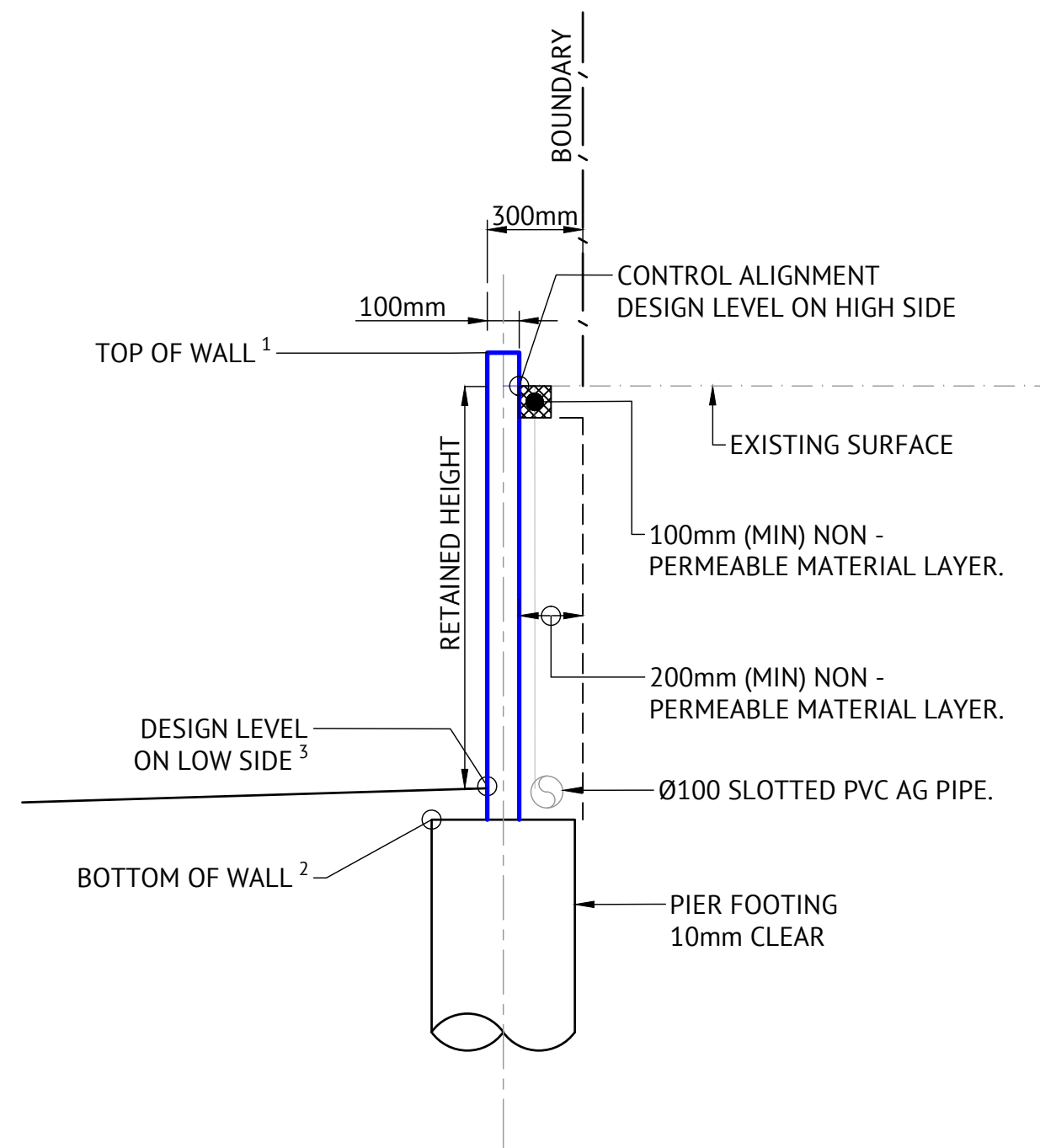
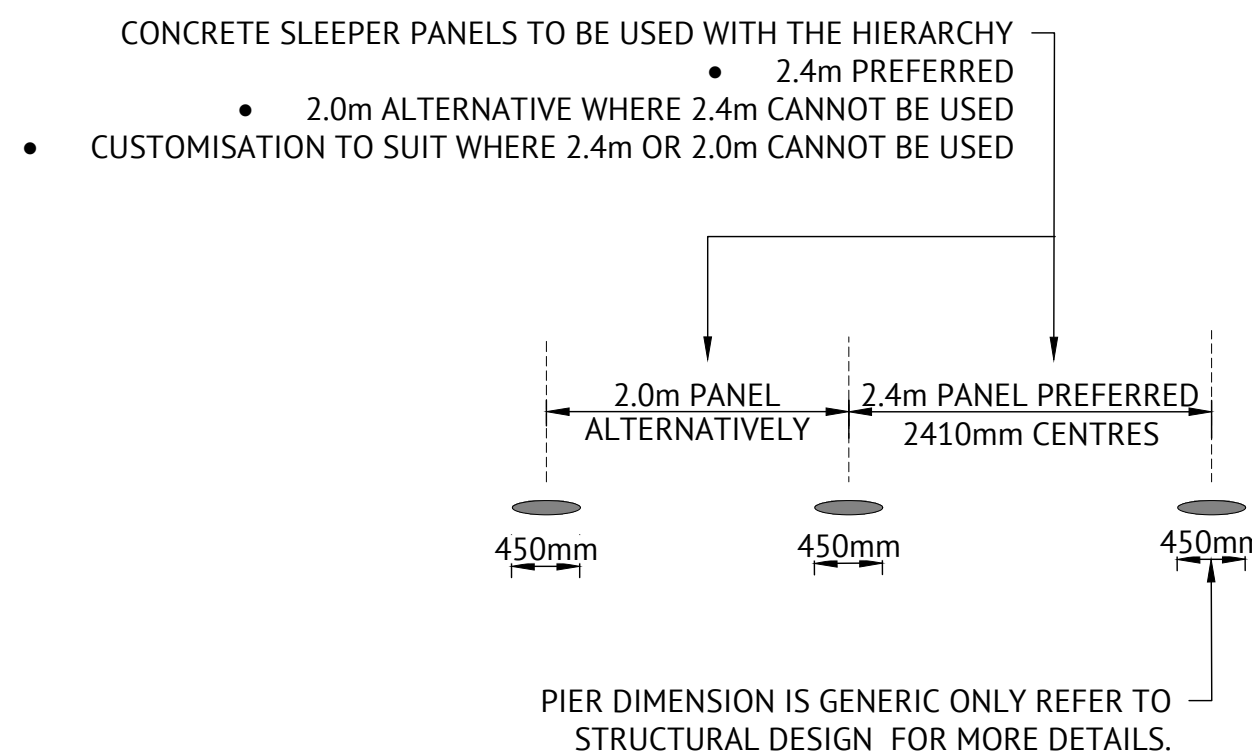
DESIGNED
TUNG PHAM
CHECKED
MICHA ZESCHKE
PROJECT MANAGER
MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE
AS SHOWN
ORIGINAL SHEET SIZE A1

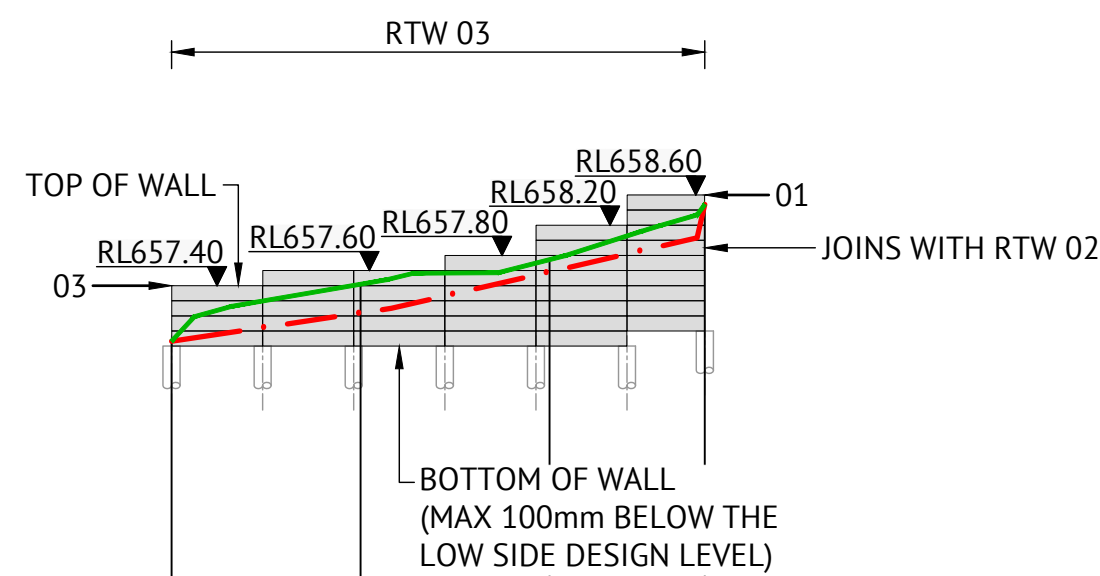
CLIENT	GOULBURN PROJECTS	JOB CODE	024965
PROJECT	PROPOSED COMMUNITY TITLE SUBDIVISION	SHEET NUMBER	C411
LOCATION	62 VERNER STREET, GOULBURN, NSW 2580	REV	A
SHEET TITLE	RETAINING WALL LONG SECTION - SHEET 2 OF 3		



TYPICAL PLAN VIEW CONCRETE SLEEPER RETAINING WALL AT THE NORTHERN BOUNDARY
SCALE 1:20

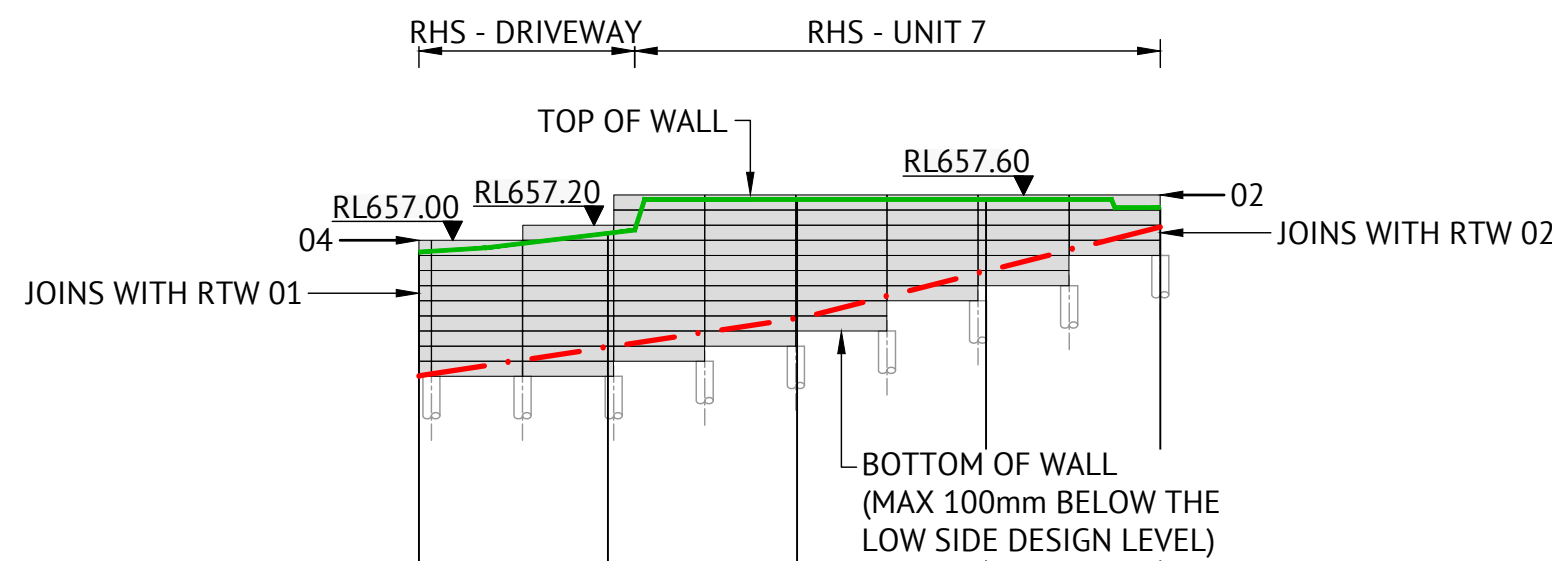


WALL TYPICAL SECTION - TYPE 2
SCALE 1:20



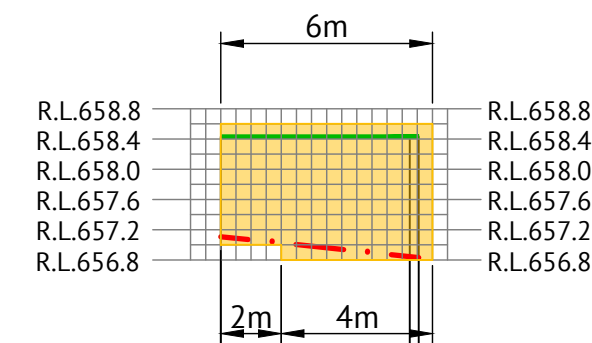
Datum R.L.651.0					
RETAINED HEIGHT	0.000	0.380	0.162	0.000	
DESIGN LEVEL ON HIGH SIDE	656.664	657.419	657.744	658.474	
DESIGN LEVEL ON LOW SIDE	656.664	657.039	657.582	658.474	
CHAINAGE	0.000	5.000	10.000	14.109	

RETAINIGN WALL RTW 03 LONGITUDINAL SECTION
SCALE 1:200 HORIZ. 1: 100 VERT.



Datum R.L.650.0					
RETAINED HEIGHT	1.631	1.503	1.574	0.955	0.269
DESIGN LEVEL ON HIGH SIDE	656.845	657.092	657.540	657.540	657.433
DESIGN LEVEL ON LOW SIDE	655.214	655.590	655.966	656.585	657.164
CHAINAGE	0.000	5.000	10.000	15.000	19.610

RETAINIGN WALL RTW 04 LONGITUDINAL SECTION
SCALE 1:200 HORIZ. 1: 100 VERT.



Datum R.L.651.0			
RETAINED HEIGHT	1.323	1.573	1.523
DESIGN LEVEL ON HIGH SIDE	658.430	658.430	
DESIGN LEVEL ON LOW SIDE	657.107	656.857	656.907
CHAINAGE	0.000	5.000	5.235

RETAINIGN WALL RTW 05 LONGITUDINAL SECTION
SCALE 1:200 HORIZ. 1: 100 VERT.

SETOUT TABLE

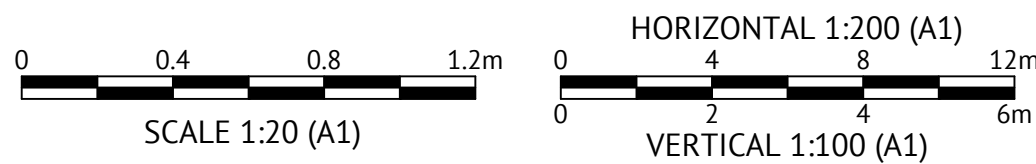
POINTS	EASTING	NORTHING
01	4877.330	5036.951
02	4829.459	4972.024
03	4888.573	5028.661
04	4844.644	4960.404

NOTES:

- TOP OF RETAINING WALL IS AT DESIGN LEVEL ON THE HIGH SIDE OR SLIGHTLY LESS.
- BOTTOM OF RETAINING WALL IS 200mm (MAX) BELOW THE DESIGN LEVEL ON THE LOW SIDE.
- FOOTING FOR RETAINING WALL IS BY STRUCTURAL ENGINEERS.

LEGEND

PROPOSED RETAINING WALL



ISSUED FOR SWC APPROVAL

DATE	REV	DESCRIPTION	BNB REC	MZ APP
23/05/2024	A	ISSUED FOR SWC APPROVAL		

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500
www.premise.com.au

Premise

DESIGNED
TUNG PHAM
CHECKED
MICHA ZESCHKE
PROJECT MANAGER
MICHA ZESCHKE
ENGINEERING CERTIFICATION
MICHA ZESCHKE

SCALE
AS SHOWN
ORIGINAL SHEET SIZE A1

CLIENT
GOULBURN PROJECTS

PROJECT
PROPOSED COMMUNITY TITLE SUBDIVISION

LOCATION
62 VERNER STREET, GOULBURN, NSW 2580

SHEET TITLE
RETAINING WALL LONG SECTION - SHEET 3 OF 3

JOB CODE
024965

SHEET NUMBER
C412

REV
A



LEGEND

- EXTENT OF WORKS
- 650.00 —

FINISHED CONTOUR (0.1m INTERVAL)
- ⊕ — ⊕ — ⊕

PROPOSED RETAINING WALL
- PROPOSED KERB LINES
- - -

PROPOSED BREAKLINE
- ▨

EXISTING BUILDING
- EXISTING KERB

■

MUSIC SUBCATCHMENT - LANDSCAPE

■

MUSIC SUBCATCHMENT - DRIVEWAY

■

MUSIC SUBCATCHMENT - ROOF SURFACE

■

MUSIC SUBCATCHMENT - CARPARKING

■

MUSIC SUBCATCHMENT - COURTYARD

■

MUSIC SUBCATCHMENT - DRIVEWAY LANDSCAPING

■

MUSIC SUBCATCHMENT - BYPASS BIO SWALE

Pollutant	Pre Development kg/yr	Post Development kg/yr	Reduction %
Tss	23.5	4.17	82%
TP	0.07	0.066	6%
Tn	0.741	0.482	35%
GP	10.6	0	100%

MUSIC MODEL CATCHMENT TABLE						
CAT. ID	SUB_CATCH. ID	NOTE	CATCH. AREA (m ²)	CATCH. DIVIDED AREA (m ²)	CATCH. AREA (ha)	IMPER. (%)
	DRIVEWAY AREA				0.014	
	M2.2 - DRW	DRIVEWAY AREA	40.90		0.004	100
	M3.2 - DRW	DRIVEWAY AREA	40.90		0.004	100
	M4.2 - DRW	DRIVEWAY AREA	40.90		0.004	100
	M5.2 - DRW	DRIVEWAY AREA	21.10		0.002	100
	GRASSED/LANDSCAPED AREA				0.009	
	M2.3 - LSC	GRASSED/LANDSCAPED AREA	19.10		0.002	0
	M3.3 - LSC	GRASSED/LANDSCAPED AREA	23.90		0.002	0
	M4.3 - LSC	GRASSED/LANDSCAPED AREA	25.70		0.003	0
	M5.3 - LSC	GRASSED/LANDSCAPED AREA	23.90		0.002	0
	HARDSTAND OTHER THAN DRIVEWAY				0.023	
	M2.4 - VERANDA	HARDSTAND OTHER THAN DRIVEWAY	49.90		0.005	100
	M3.4 - VERANDA	HARDSTAND OTHER THAN DRIVEWAY	68.30		0.007	100
	M4.4 - VERANDA	HARDSTAND OTHER THAN DRIVEWAY	69.40		0.007	100
	M5.4 - VERANDA	HARDSTAND OTHER THAN DRIVEWAY	43.40		0.004	100
	MAIN DRIVEWAY				0.035	
	M1.1	MAIN DRIVEWAY	348.50		0.035	95
	DRIVEWAY LANDSCAPING				0.004	
	M1.2	DRIVEWAY LANDSCAPING	37.80		0.004	0
	ROOF BYPASSING RWT				0.053	
	M2.1 - RBPRWT	ROOF BYPASSING RWT		377.70	0.038	100
	M3.1 - RBPRWT	ROOF BYPASSING RWT		151.00	0.015	100
	ROOF CONNECTING TO RWT				0.062	
	M2.1 - R2RWT	ROOF CONNECTING TO RWT	124.65	62.33	0.006	100
	M3.1 - R2RWT	ROOF CONNECTING TO RWT	124.80	62.40	0.006	100
	M4.1 - R2RWT	ROOF CONNECTING TO RWT	329.67	164.84	0.016	100
	M5.1 - R2RWT	ROOF CONNECTING TO RWT	329.67	164.84	0.016	100
	M6.1 - R2RWT	ROOF CONNECTING TO RWT	322.88	161.44	0.016	100
	COURTYARD BYPASS				0.014	
	M7.1	LANDSCAPED BYPASS	138.20		0.014	0
TOTAL					0.214	

