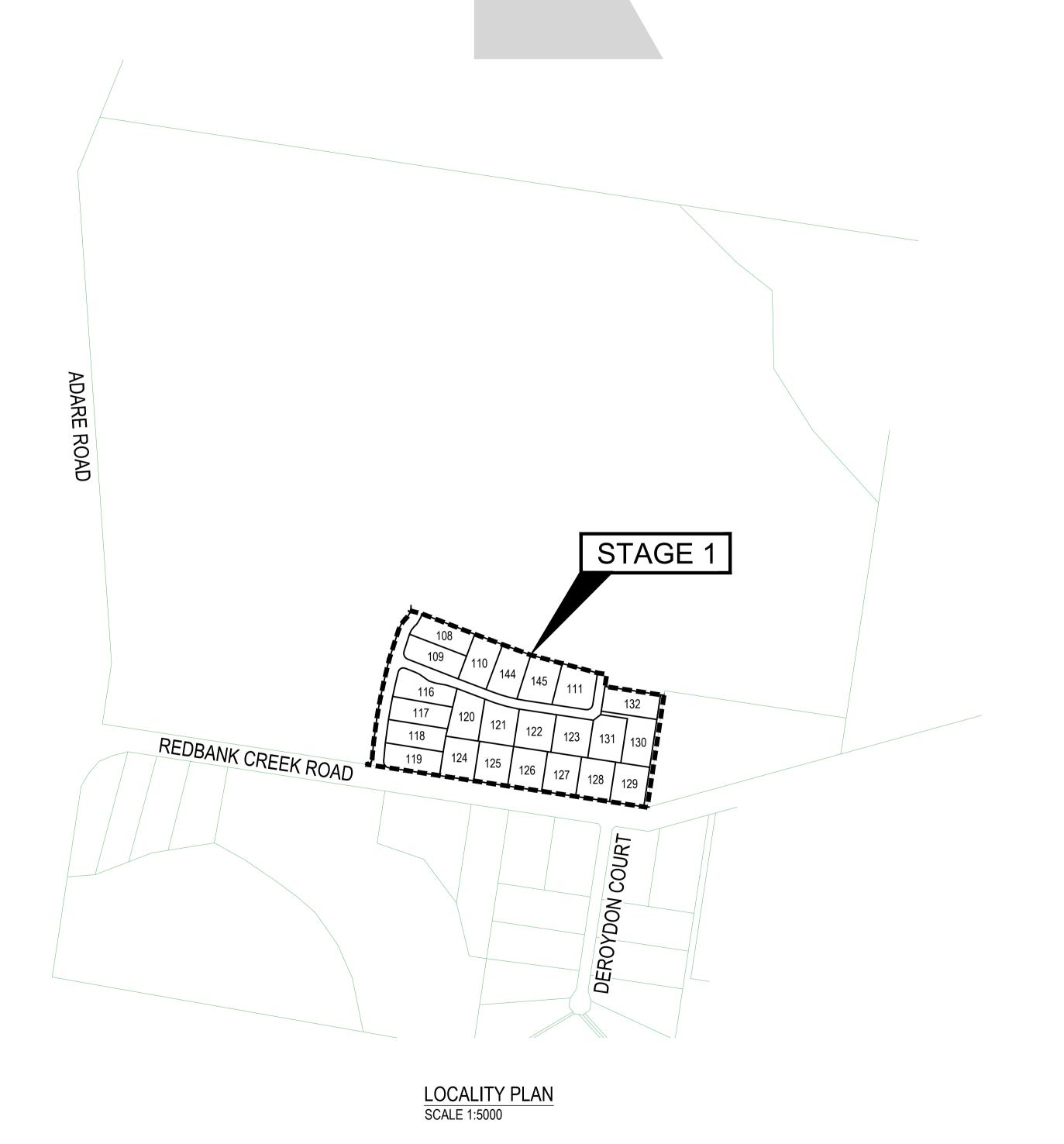
PROPOSED SUBDIVISION

PARKLAKE, ADARE - STAGE 1 174 ADARE ROAD, ADARE, QLD 4343



	CIVIL ENGINEERING DRAWINGS	
SHEET NUMBER	SHEET TITLE	REVISION
C1000	COVER SHEET	A
C1001	STANDARD NOTES	A
C1002	SITE PLAN	A
C1100	EROSION AND SEDIMENT CONTROL PLAN	A
C1190	EROSION AND SEDIMENT CONTROL DETAILS	А
C1191	EROSION AND SEDIMENT CONTROL NOTES	А
C1200	BULK EARTHWORKS PLAN	А
C1290	BULK EARTHWORKS DETAILS	A
C1300	PAVEMENT PLAN	A
C1400	ROADWORKS PLAN	A
C1430	SIGNS AND PAVEMENT MARKING PLAN	A
C1450	ROAD LONGITUDINAL SECTION - ROAD 1	A
C1451	ROAD CROSS SECTIONS - ROAD 1 - SHEET 1	A
C1452	ROAD CROSS SECTIONS - ROAD 1 - SHEET 2	А
C1453	ROAD LONGITUDINAL SECTION - ROAD 2 - SHEET 1	А
C1454	ROAD LONGITUDINAL SECTION - ROAD 2 - SHEET 2	А
C1455	ROAD CROSS SECTIONS - ROAD 2 - SHEET 1	А
C1456	ROAD CROSS SECTIONS - ROAD 2 - SHEET 2	А
C1457	ROAD CROSS SECTIONS - REDBANK CREEK ROAD - SHEET 1	А
C1458	ROAD CROSS SECTIONS - REDBANK CREEK ROAD - SHEET 2	А
C1480	INTERSECTION DETAILS	А
C1490	ROADWORKS DETAILS	A
C1500	DRAINAGE CATCHMENT PLAN	A
C1501	DRAINAGE PLAN	A
C1550	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1	А
C1560	DRAINAGE CALCULATIONS	A
C1600	WATER RETICULATION COVER SHEET	A
C1601	WATER RETICULATION PLAN	А
C1602	WATER RETICULATION SECTIONS	
C1700	BUSHFIRE TRAIL PLAN	A
C1701	BUSHFIRE TRAIL LONGITUDINAL SECTION	A
C1702	BUSHFIRE TRAIL CROSS SECTIONS	A
C1703	BUSHFIRE TRAIL DETAILS	A

REVISIONS:

A ORIGINAL ISSUE

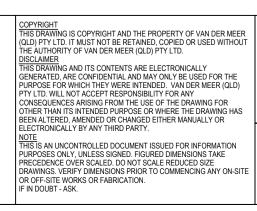
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ARCHITECT

PROPOSED SUBDIVISION

174 ADARE ROAD, ADARE, QLD 4343

STAGE 1

DRAWING TITLE

COVER SHEET

ORIGINAL ISSUE
NOT FOR CONSTRUCTION

PROJECT LEADER CK MP

DRAFTSPERSON SCALE AS SHOWN JUL 2022 A1

JOB No. DRAWING No. REVISION

BR222025 C1000 A

GENERAL NOTES

- G1. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BMS OR SSM.
- G2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- G3. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.
- G4. DIMENSIONS MUST NOT BE SCALED FROM DRAWINGS.
- G5. CONTRACTOR TO ENSURE THAT ALL ROADWORKS ARE SMOOTHLY TRANSITIONED TO EXISTING LEVELS FREE FROM ABRUPT CHANGES
- G6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR. FURTHER, THE LOCATION OF RECOVERY MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT
- G7. AT COMPLETION OF WORKS ALL ADJOINING DISTURBED AREAS ARE TO BE REINSTATED TO THE "AS FOUND" CONDITION.
- G8. THE CONTRACTOR SHALL ENSURE ALL AREAS DRAIN WITH A MINIMUM FALL OF 1% (1:100) GRADE TO OUTLETS UNLESS INDICATED OTHERWISE. NO WORKS SHALL CAUSE PONDING OF STORMWATER ON UPSTREAM PROPERTIES OR CONCENTRATE RUNOFF ONTO DOWNSTREAM PROPERTIES.
- G9. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, ELECTRICAL, RETICULATION, WATER AND SEWER DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- G10. THE CONTRACTOR SHALL ENSURE THAT ALL PAVEMENTS GRADE EVENLY BETWEEN NOMINATED RL'S ON PLAN AND NO POND OF WATER OCCURS.
- G11. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.
- G12. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- G13. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS. AND THE LOCAL STATUTORY AUTHORITIES. EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- G14 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.
- G15 THE CONTRACTOR IS TO EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED FOR ALL GEOTECHNICAL ASPECTS OF THE BUILDING WORKS. REFER TO FOUNDATION, GROUNDWORKS AND RETENTION/SHORING NOTES. REFER ALSO TO THE GEOTECHNICAL REPORT FOR THIS PROJECT.

SUBGRADE PREPARATION

- RW1. REMOVE ALL VEGETATION, TOPSOIL AND DELETERIOUS MATERIAL FROM AREA OF PROPOSED BUILDING PLATFORM AND PAVEMENTS.
- RW2. PROOF ROLL EXPOSED SUB GRADE TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD MAXIMUM DRY DENSITY (SMDD), DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1.
- RW3. REMOVE ANY SOFT, HEAVING, WET OR UNSTABLE AREAS IDENTIFIED DURING PROOF ROLLING AND REPLACE USING SELECT IMPORTED FILL COMPACTED IN LAYERS NOT EXCEEDING 200mm MEASURED LOOSE TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY.
- RW4. NOTE THAT THE SITE IS UNDERLAIN BY EXISTING SERVICES AND COMPACTION UTILISING VIBRATION MAY NOT BE SUITABLE IN THE VICINITY OF UNDERGROUND SERVICES.
- RW5. ANY FILL REQUIRED TO RAISE LEVELS TO BULK EARTHWORKS TO WITHIN 50mm OF NOMINATED LEVELS IS TO BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 300mm MEASURED LOOSE TO 98% STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).
- RW6. THE CONTRACTOR IS TO PROVIDE CERTIFICATION TO THE EFFECT THAT EARTHWORKS COMPACTION TO 98% STANDARD MAXIMUM DRY DENSITY. (AS 1289 E1.1, E4.1) HAS BEEN ACHIEVED, UNLESS OTHERWISE AGREED IN WRITING BY SITE SUPERINTENDENT.
- RW7. THE CONTRACTOR IS TO PROVIDE TO THE SITE SUPERINTENDENT A SURVEY CONFIRMATION FROM A REGISTERED SURVEYOR. CONFIRMING BULK EARTHWORKS LEVELS AS WITHIN +/-50mm OF LEVELS NOMINATED.
- RW8. SUBGRADE REPLACEMENT MATERIAL IS TO CONSIST OF CLEAN, UNCONTAMINATED, WELL-GRADED MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 75mm, WITH 80% LESS THAN 20mm, AND A SOAKED C.B.R. GREATER THAN 10% AND A PLASTICITY INDEX LESS THAN 12.
- RW9. BACK FILLING FOR SERVICE TRENCHES AND REMOVED SERVICES OR PITS OR FOUNDATIONS IS TO USE APPROVED WELL-GRADED GRANULAR MATERIAL WITH MINIMUM VOIDS, (EITHER SELECT INSITU OR IMPORTED FILL), COMPACTION AS SPECIFIED ABOVE.
- RW10. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AS3798-1996: GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

REVISION DESCRIPTION

GENERAL EARTHWORKS

- E1. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.
- E2. COMPACT SUBGRADE TO 98% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1289 TESTS E.1.1. OR E.1.2. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.
- E3. NO STORMWATER IS TO POND ON ADJOINING PROPERTIES. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED AWAY FROM THE BUILDING PLATFORM. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE DWELLING AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER COLLECTION PITS.
- E4. ENSURE ALL RETAINING WALLS ARE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

GROUND WORKS AND EXCAVATION

- GW1. ALL GROUND WORKS AND EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
- GW2. SEPARATE AND REMOVE ALL TOPSOIL, NON SOIL MATERIAL, CONCRETE, VEGETATION, BRICKBATS, TIMBER, ROOT AFFECTED SOIL AND EXISTING FILL. STORE TOPSOIL IF REQUIRED.
- GW3. ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL AND SHALL NOT UNDERMINE FOOTINGS. WALLS etc...
- GW4. PROOF ROLL WITH AN 8 TONNE ROLLER, REPLACE ANY SOFT MATERIAL WITH APPROVED FILL AND RE-COMPACT. GEOTECHNICAL ENGINEER TO
- GW5. THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 300mm.
- GW6. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY, GEOTECHNICAL ENGINEER TO VERIFY.
- GW7. ALL PERMANENT EMBANKMENTS TO BE COMPACTED IN 200 mm LAYERS AS PER NOTE GW6 AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 2.5 HORIZONTAL UNLESS NOTED OTHERWISE. SHOULD DRAINAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.
- GW8. ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 1 STANDARD IN ACCORDANCE WITH AS 3798 - 1996.
- GW9. ALL EXCAVATIONS TO BE INSPECTED AT REGULAR INTERVALS BY A GEOTECHNICAL ENGINEER.
- GW10. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM SETOUT OF BUILDINGS, CARPARKS ETC.
- GW11. THE LEVELS SHOWN ARE ONLY RELEVANT TO THE PLAN UPON WHICH THEY ARE SHOWN.
- GW12. ALL CONTOURS AND LEVELS USED TO PRODUCE EARTHWORK DETAILS HAVE BEEN BASED ON SURVEYOR AND ARCHITECTS SURVEY
- GW13. ALL FINISHED FLOOR LEVELS ARE TO BE CONFIRMED BY ARCHITECT.
- GW14. ALL EXISTING SERVICES ARE TO BE CAPPED OFF PRIOR TO ANY WORKS.
- GW15. A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, THE GEOTECHNICAL ENGINEER, AND THE EARTHWORKS CONTRACTOR TO UNDERSTAND POTENTIAL DIFFICULTIES AND TO ORGANISE TESTING PROCEDURES. THE CONTRACTOR SHALL CONFIRM TO THE ENGINEER THAT THE MEETING HAS BEEN HELD.

DRAINAGE NOTES

- D1. PIT LEVELS SHOWN ON STORMWATER DRAINAGE PLANS ARE FOR INFORMATION. EXACT PIT LEVELS TO BE ADJUSTED TO SUIT FALLS IN PAVEMENT/LANDSCAPED AREA.
- D2. PITS GREATER THAN 1.2m DEEP TO BE FITTED WITH STEP IRONS.
- D3. DRAINAGE PIPES SHALL BE BACKFILLED WITH COMPACTED CLEAN SHARP SAND TO 200 ABOVE PIPE OBVERT. ADDITIONAL BACKFILL UNDER ROADS SHALL CONSIST OF CLASS 2 F.C.R. MATERIAL COMPACTED IN 200mm LAYERS TO 98% SMDD. UNDER LANDSCAPED AREAS ADDITIONAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL COMPACTED IN 200mm LAYERS A 3m LENGTH OF 100 Ø SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING SHALL BE PROVIDED ON THE UPSTREAM SIDE OF ALL
- D4. CONCRETE STORMWATER PIPES TO BE CLASS '3' UNDER ROADS AND CLASS '2' IN NON-TRAFFICED AREAS. ALL PIPES GREATER THAN 300Ø ARE TO BE RUBBER RING JOINTS U.N.O.
- D5. CONCRETE PITS GREATER THAN 1.0m DEEP TO BE REINFORCED WITH N12-200 EACH WAY CENTRED, MIN. 300 LAP, CONCRETE - F'c 25MPa
- D6. 150Ø, 225Ø AND 300Ø uPVC PIPES TO BE SEWER GRADE PIPE UNDER TRAFFICABLE PAVEMENT. MIN. 400 COVER UNDER NON-TRAFFICABLE **PAVEMENT**
- D7. PIT COVERS AND GRATED DRAINS IN TRAFFICABLE PAVEMENT TO BE AS 3996 CLASS D "HEAVY DUTY" AND IN NON-TRAFFICABLE AREAS TO BE AS 3996 CLASS C "LIGHT DUTY".

UTILITY SERVICES

- S1. CONDUITS TO BE PROVIDED FOR WATER AND ENERGY AUTHORITIES, TELSTRA AND OTHER SERVICES AS REQUIRED.
- S2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWING'S HAVE BEEN PLOTTED FROM SURVEY AND 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.
- VAN DER MEER CANNOT 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 ARISING FROM ANY CAUSE WHATSOEVER.
- S4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE 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.

TELSTRA - DUTY OF CARE NOTE:

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT, THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR UPHOLD THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POT HOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

ELECTRICAL AND GAS NETWORK: A MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS THE SUBCONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG.

RETAINING WALL GENERAL

- GR1. BASE MATERIAL SHALL BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SMOC) DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. MINIMUM ALLOWABLE BEARING PRESSURE OF 150 kPa. GEOTECHNICAL ENGINEER EMPLOYED BY CONTRACTOR TO INSPECT AND CONFIRM.
- GR2. DRAINAGE MATERIAL WITHIN AND IMMEDIATELY BEHIND THE WALL SHALL BE 12-20mm CLEAN AGGREGATE. DRAINAGE MATERIAL TO EXTEND A MINIMUM 300mm BEHIND WALL, COMPACT DRAINAGE MATERIAL.
 - ALTERNATIVELY, USE NO FINES CONCRETE, AS FOLLOWS:
- CONCRETE STRENGTH N15. 210kg/m3 PORTLAND CEMENT
- MAXIMUM AGGREGATE SIZE 20 mm.
- W/C RATIO 0.45 TO 0.55.
- DENSITY 1600 TO 2000 kg/m3
- GR3. INFILL SOIL SHALL BE CLASS 1 CONTROLLED FILL TO AS4678, OR AS SPECIFIED ON THE DRAWINGS. UNSUITABLE SOILS, SUCH AS HEAVY CLAYS OR ORGANIC SOILS WITH HIGH PLASTICITY, SHALL NOT BE USED IN THE REINFORCED SOIL MASS.
- GR4. SPREAD BACKFILL IN UNIFORM LIFTS OF 200mm UNCOMPACTED THICKNESS. COMPACT TO MINIMUM 95% OF SMDD. COMPACTION WITHIN 1.0 m BEHIND THE WALL SHALL BE ACCOMPLISHED BY USING A HAND-OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE DIRECTLY ON THE BLOCK. THEN COMPACTING IN PARALLEL PATHS, PROGRESSIVELY AWAY FROM THE WALL FACE.
- GR5. WHERE ROADWAYS OR BUILDING STRUCTURES ARE LOCATED ABOVE THE REINFORCED ZONE, COMPACT TO 98% SMDD WITHIN 2% OF SOMC DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. COMPACTION TESTING SHALL BE TAKEN AT 1.2m BEHIND THE WALL.

PAVEMENT

- F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER COUNCIL SPECIFICATION.
- PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND NOT LESS THEN 75mm COMPACTED THICKNESS. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.
- CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75mm NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL
- F5. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.52)

DESCRIPTION MODIFIED DENSITY RATIO SUB-BASE 98% MDD BASE COURSE 98% MDD ASPHALTIC CONCRETE 97% MDD

AND SUBJECT TO COUNCIL'S CONSTRUCTION SPECIFICATION.

TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER, FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978-1996.

AS CONSTRUCTED

PRIVATE WORKS (SITE CIVIL WORKS)

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTATION TO VAN DER

MEER PRIOR TO PRACTICAL COMPLETION OF CIVIL WORKS: PW.01 A COMPLETE SURVEY OF COMPLETED SURFACE INCLUDING SURFACE LEVELS OF ALL

STRUCTURES INCLUDING BUT NOT LIMITED TO:

- STORMWATER MANHOLES AND PITS. BIO-RETENTION AREAS, INCLUDING BASE AND TOP OF FILTER TRENCH MATERIAL AND AREA INSTALLED, IF APPLICABLE.
- WATER SERVICE CONNECTION INCLUDING FITTINGS AND METERS.
- SEWERAGE PROPERTY CONNECTIONS INCLUDING MANHOLES.
- SEWER PUMP STATIONS, IF APPLICABLE
- PW.02 COPIES OF NATA TEST CERTIFICATE RESULTS IN RESPECT OF:
- THE COMPACTION OF FILL INCLUDING COMPACTION OF TRENCH BACKFILL. EARTHWORKS CERTIFICATION FROM GEOTECHNICAL RPEQ INCLUDING LEVEL 1 CERTIFICATION WHERE REQUIRED.
- THE SUB-GRADE CBR.
- THE SUB-GRADE COMPACTION.
- THE LOWER SUBBASE (CBR 15) MATERIAL QUALITY.
- THE LOWER SUBBASE (CBR 15) COMPACTION.
- THE SUB-BASE COURSE (CBR 45) MATERIAL QUALITY.
- THE SUB-BASE COURSE (CBR 45) COMPACTION. THE BASE COURSE (CBR 80) MATERIAL QUALITY.
- THE BASE COURSE (CBR 80) COMPACTION.
- THE PRIME OR PRIMER SEAL SPRAY AND APPLICATION RATES. THE AC CORE TESTS
- ANY CONCRETE TESTING REQUIRED.
- CCTV VIDEO FOR UNDERGROUND STORMWATER INFRASTRUCTURE WORK. PW.03 DURING CONSTRUCTION, DIGITAL PHOTOGRAPHS MUST:
- BE TAKEN OF COMPLEX CONSTRUCTIONS OR INSTALLATIONS WHICH WILL BE BELOW GROUND
- LEVEL OR NOT VISIBLE AFTER CONSTRUCTION COMPLETION OR AS REQUESTED ON SITE. BE TAKEN PRIOR TO BACKFILLING.
- INCLUDE A CHAINAGE OR EXACT LOCATION REFERENCE IN THE TITLE OF THE DIGITAL PHOTO
- BE DATE STAMPED.

COUNCIL WORKS

CW.01 TO PROVIDE AS CONSTRUCTED INFORMATION AS PER LOCAL COUNCIL SUBMISSION GUIDELINES REQUIREMENTS.

REINFORCED CONCRETE BLOCKWORK

- M1. CONCRETE BLOCKS SHALL BE BORAL 'CORE FILL BLOCKS', DOUBLE-U TYPE, OR SIMILAR APPROVED.
- M2. MINIMUM DURABILITY REQUIREMENTS:

LOCATION	SALT ATTACK RESISTANCE GRADE OF MASONRY UNIT	MORTAR CLASS	DURABILITY CLASS OF WALL TIES AND BUILT-IN COMPONENTS
INTERIOR MASONRY	GENERAL PURPOSE	M3	R3
EXTERIOR MASONRY ABOVE DAMP PROOF COURSE	GENERAL PURPOSE	M3	R3
BELOW DAMP PROOF COURSE OR IN CONTACT WITH GROUND	EXPOSURE	M4	R4

M3. MINIMUM STRENGTH REQUIREMENTS:

ELEMENT	STRENGTH OF MASONRY UNIT	MORTAR CLASS #
CONCRETE BLOCKWORK (REINF)	fuc = 15 MPa	M3

UNLESS A HIGHER CLASSIFICATION IS REQUIRED FOR DURABILITY (REFER NOTE M2).

- M4. LAY BOTTOM COURSE OF BLOCKS ON FULL MORTAR BED. ALL PERPENDS SHALL BE FILLED WITH MORTAR, EXCEPT WEEPHOLES. M5. ALL CORES SHALL BE GROUTED UNLESS NOTED OTHERWISE.
- GROUT FOR CORE FILLING SHALL BE IN ACCORDANCE WITH AS3600, WITH THE FOLLOWING PROPERTIES:
- STRENGTH GRADE S20
- MAX. AGGREGATE SIZE 10mm
- SLUMP 230mm ± 25mm MIN. CEMENT CONTENT 300kg/m³ M7. PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS

WALL TYPE	JOINT WIDTH	MAX JOINT SPACING
CONCRETE BLOCKWORK (REINF)	15mm	12m

- M7. AT CORNERS, CONTROL JOINTS SHALL BE WITHIN HALF THE SPECIFIED JOINTS SPACING FROM THE CORNER. JOINTS SHALL BE SEALED WITH AN APPROVED FLEXIBLE SEALANT.
- PROVIDE JOINTS TO MATCH JOINTS IN SUPPORTING SLABS M8. PROVIDE CLEANOUT OPENINGS AT THE BASE OF ALL REINFORCED CORES AND REMOVE ALL MORTAR PROTRUSIONS BEFORE GROUTING. ADDITIONAL CLEANOUT OPENINGS SHALL BE PROVIDED ABOVE EACH HORIZONTAL POUR BREAK
- M9. MAXIMUM HEIGHT OF POUR FOR GROUTING SHALL NOT EXCEED 3.6m FOR 190 LOCKWORK. AND 0.8m FOR 140 BLOCKWORK. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR SUBSEQUENT POUR.

M10. GROUT SHALL BE THOROUGHLY COMPACTED IN THE CORES BY RODDING OR MECHANICAL

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- C2. CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.
- C3. CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:

ELEMENT	SLUMP (mm)	AGGREGATE	f'c (MPa)	OTHER REQ
EXTERNAL VEHICLE SLAB	+ 80	20	N32	(1)

- DENOTES SLUMP AT PLANT
- DENOTES MAXIMUM BASE SHRINKAGE STRAIN 600 x 10 -6 AT 56 DAYS (TO AS 1012 PART 13)
- SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED
- C5. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.
- HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS SHALL NOT BE PLACED IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CONDUITS, PIPES AND LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER, NOR DISPLACE THE REINFORCEMENT LAYERS.
- CONSTRUCTION JOINTS (CJ) SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER, ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY SCABBLED.
- THE MAXIMUM HEIGHT OF POUR FOR CONCRETE ELEMENTS SHALL BE 3m UNLESS METHOD OF PLACEMENT HAS BEEN APPROVED BY THE ENGINEER. COLUMNS SHALL NOT BE POURED WITH THE SLAB OVER.
- C10. CONCRETE SHALL BE THOROUGHLY COMPACTED IN THE FORMS BY MEANS OF MECHANICAL VIBRATION.
- C11. WHEN THE SHADE TEMPERATURE EXCEEDS 35°C, THE EXPOSED SURFACE OF CONCRETE SHALL BE SPRAYED WITH A FINE FILM OF APPROVED ALIPHATIC ALCOHOL DURING CONCRETE PLACEMENT AND FINISHING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURING ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK.
- C12. CURING OF CONCRETE SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS USING AN APPROVED PROPRIETARY CURING COMPOUND IN ACCORDANCE WITH AS 3799 AND COMPATIBLE WITH THE PROPOSED FINISH OR CONTINUOUS PONDING WITH POTABLE WATER. THE CONTRACTOR TO SUBMIT PROPOSED CURING PROCEDURE FOR
- C13. ALL CONCRETE DELIVERED TO SITE SHALL BE SUBJECT TO PROJECT ASSESSMENT IN ACCORDANCE WITH AS 1379.

APPROVAL OF THE ENGINEER.

C14. THE CONTRACTOR SHALL NOMINATE A CONCRETE DELIVERY SUPERVISOR WHO SHALL BE A SUITABLE EXPERIENCED PERSON FOR THE APPROVAL OF THE ENGINEER, TO MONITOR THE DELIVERY AND PLACING OF THE CONCRETE FOR EACH POUR ON THE PROJECT. IN ADDITION, THE MANUFACTURER SHALL SAMPLE AND TEST FOR DRYING SHRINKAGE EACH TYPE OF CONCRETE SUPPLIED, AT LEAST EVERY MONTH DURING THE COURSE OF THE PROJECT OR FOR EVERY 1000 CUBIC METRES PLACED. NATA TEST CERTIFICATES SHALL BE FORWARDED TO THE ENGINEER. THE RESULTS OF THESE TESTS SHALL ALSO BE KEPT ON SITE.

C15. CONCRETE SAMPLES AND TESTS

ARRANGE FOR A NATA REGISTERED TESTING LABORATORY TO TAKE SAMPLES OF AND TEST CONCRETE FOR COMPRESSION, FLEXURAL TENSILE STRENGTH (SLABS ON GROUND ONLY) AND SLUMP.

COMPRESSION TEST SAMPLES SHALL CONSIST OF 3 STANDARD CYLINDERS (4 STANDARD CYLINDERS FOR POST-TENSIONED CONCRETE), TESTED FOR COMPRESSIVE STRENGTH AS FOLLOWS:

ONE (1) CYLINDER AT 3 DAYS FOR POST-TENSIONED CONCRETE ONLY.

- 1 SAMPLE

- 2 SAMPLES

1 SAMPLE PER TRUCK AT TIME OF POURING.

ONE (1) CYLINDER AT 7 DAYS. TWO (2) CYLINDERS AT 28 DAYS.

THE MINIMUM NUMBER OF DAILY SAMPLES SHALL BE AS FOLLOWS:

IN COLUMNS/WALLS: 1 SAMPLE PER TRUCK

ALL OTHER CONCRETE OF ANY ONE TYPE AS FOLLOWS:

6 TO 10 TRUCKS PER DAY - 3 SAMPLES

1 TRUCK PER DAY

2 TO 5 TRUCKS PER DAY

10 TO 20 TRUCKS PER DAY - 4 SAMPLES FOR EACH ADDITIONAL 10 TRUCKS PER DAY, 1 SAMPLE.

C16. REFER TO TYPICAL STRIPPING AND PROPPING DETAIL.

REVISIONS: ADARE A ORIGINAL ISSU



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ORIGINAL ISSUE NOT FOR CONSTRUCTION MP DRAFTSPERSON MP AS SHOWN | JUL 2022

STANDARD NOTES

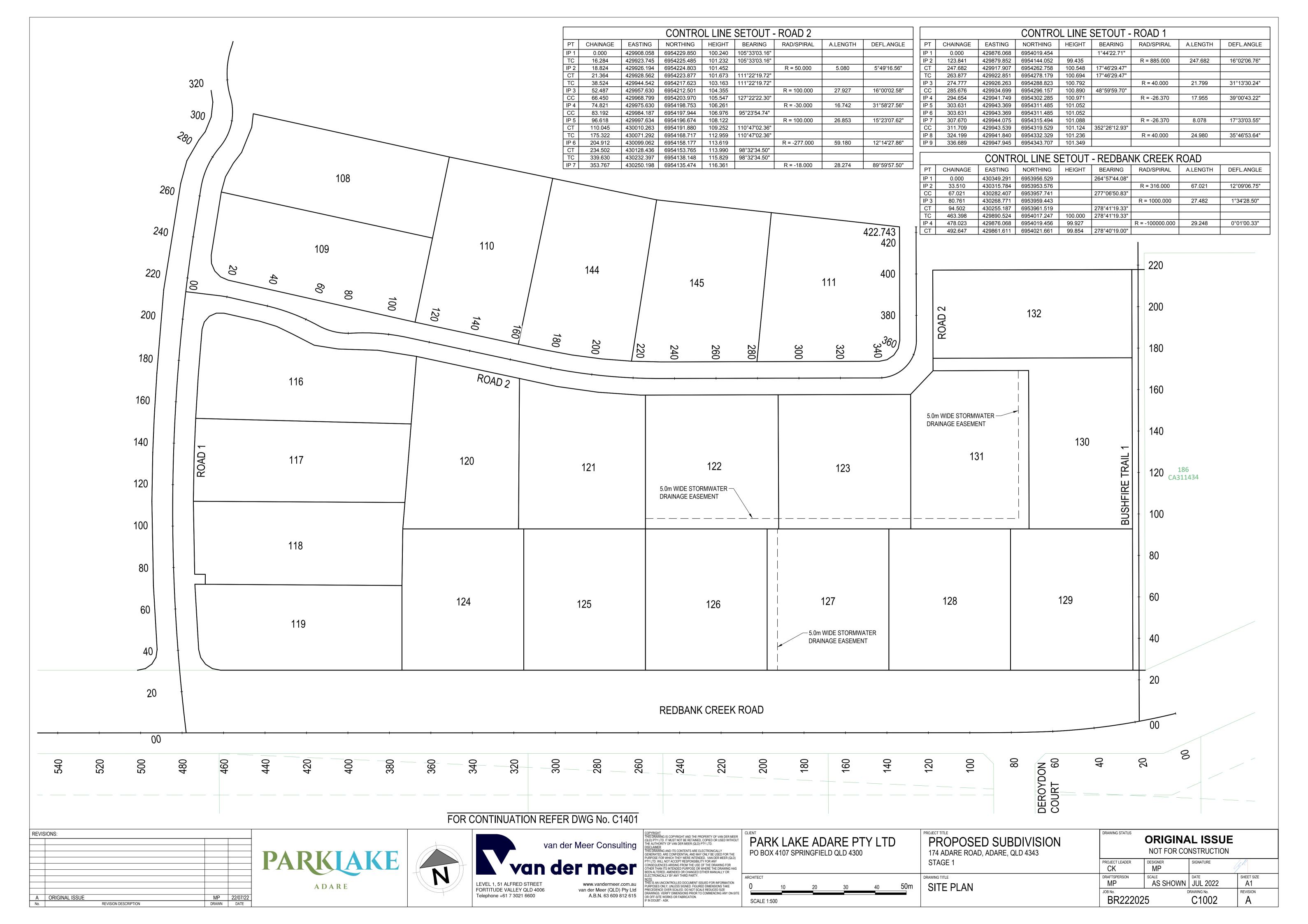
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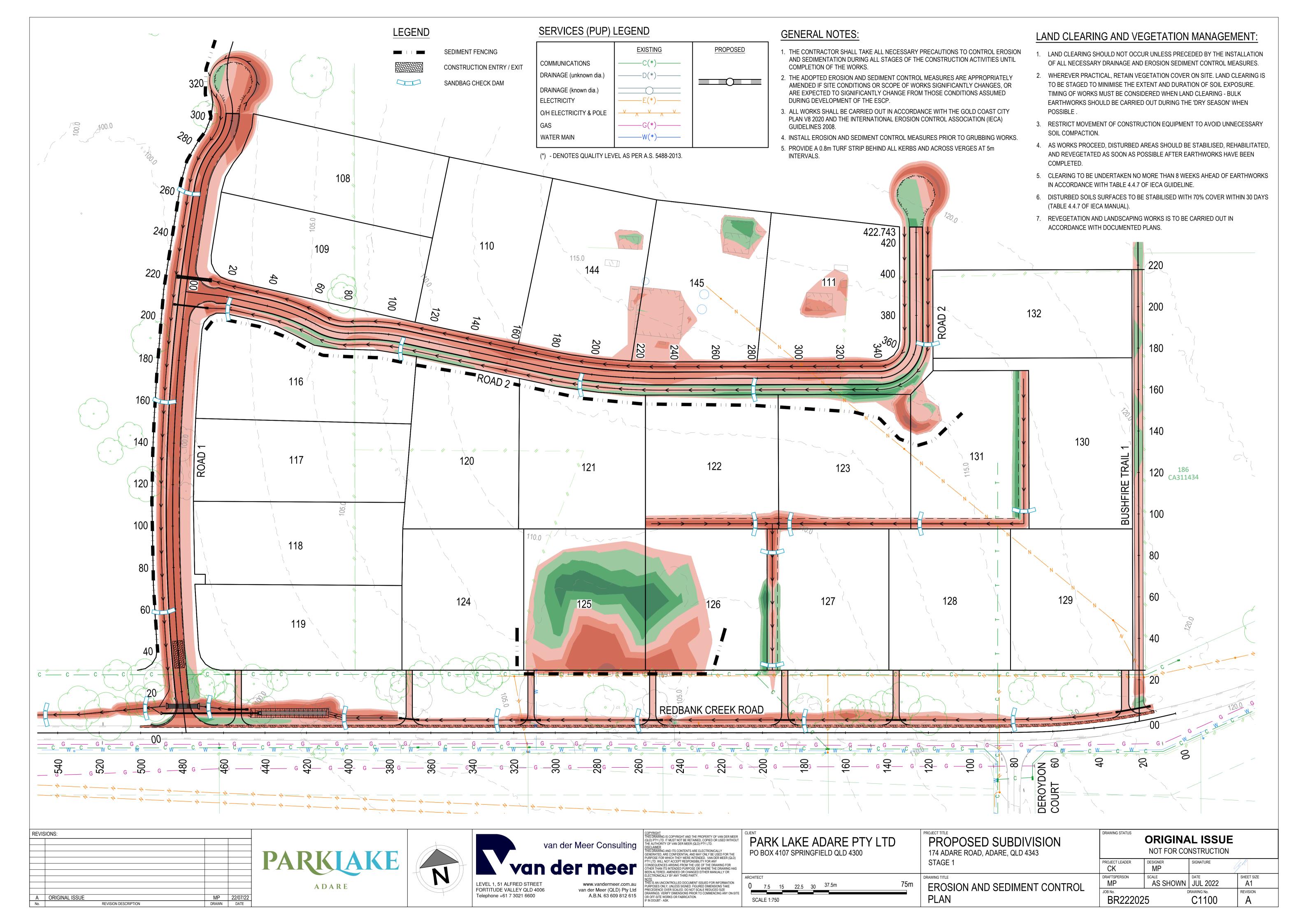
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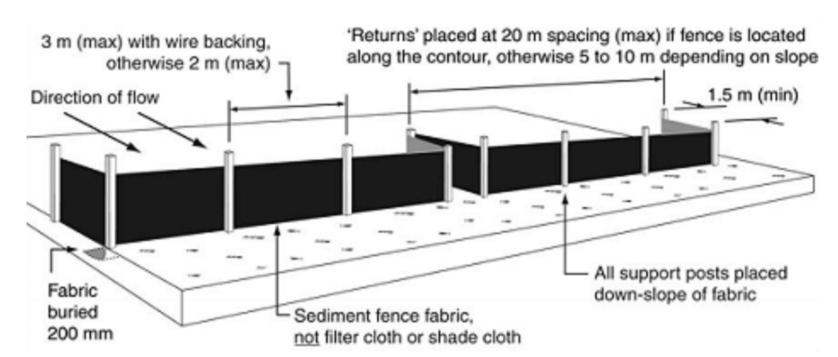
SHEET SIZE

A1

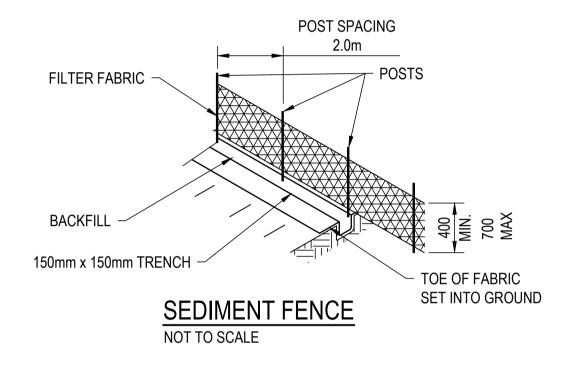
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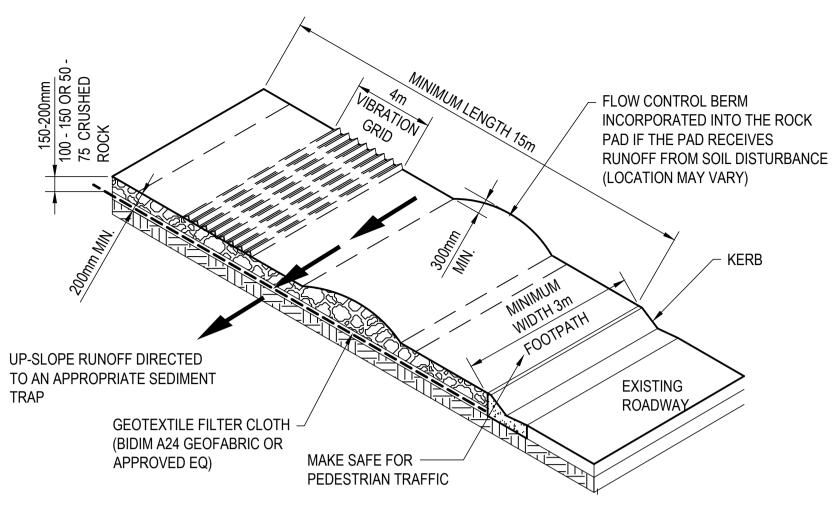




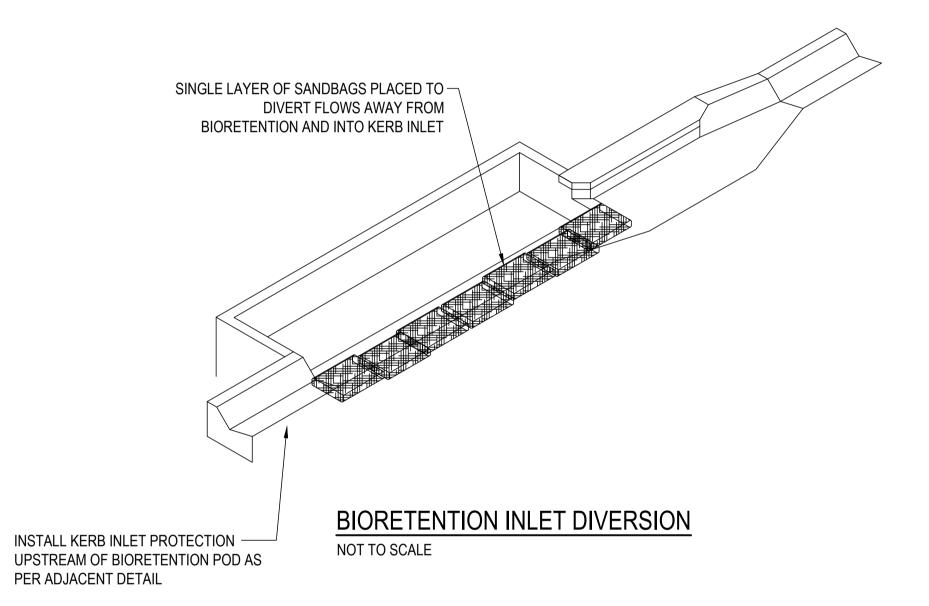


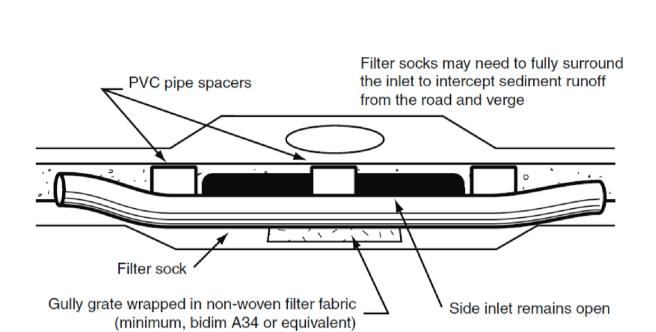
TYPICAL INSTALLATION OF A SEDIMENT FENCE NOT TO SCALE





CONSTRUCTION ENTRY/EXIT POINT DETAIL NOT TO SCALE





ON-GRADE KERB INLET SEDIMENT TRAP

4.0 m (min)

1 m (max) on public roads

Filter socks overlap

NOT TO SCALE

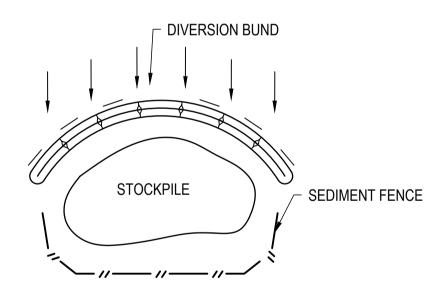
onto kerb 🔨

Sediment

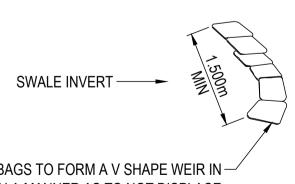
pond

Run-off

SAG INLET SEDIMENT TRAP NOT TO SCALE

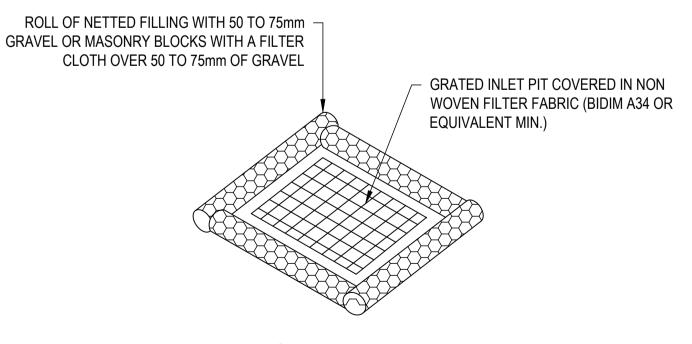


STOCKPILE SEDIMENT CONTROL NOT TO SCALE

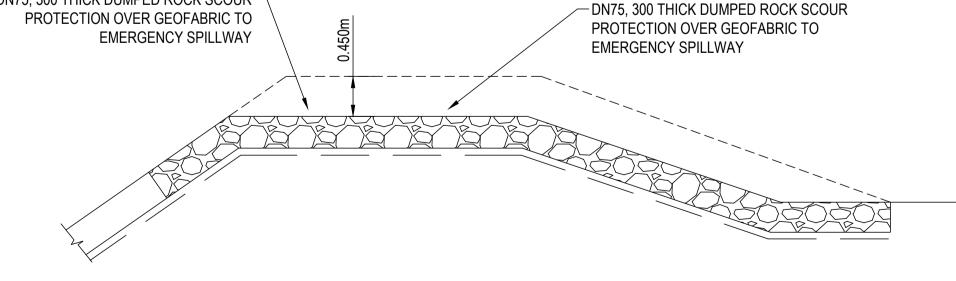


SINGLE LAYER OF SANDBAGS TO FORM A V SHAPE WEIR IN-CHANNEL. PLACE IS SUCH A MANNER AS TO NOT DISPLACE STORMWATER RUNOFF OUTSIDE OF SWALE I.E. CENTRE OF WEIR MUST BE LOWER THAN SURROUNDING SURFACE

TYPICAL SAND BAG CHECK DAM NOT TO SCALE

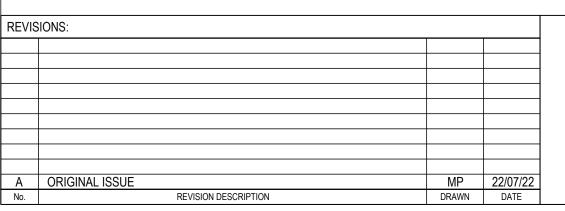






SEDIMENT BASIN EMERGENCY SPILLWAY DETAIL NOT TO SCALE

TOP OF BUND 1.5m







DN75, 300 THICK DUMPED ROCK SCOUR -

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PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGE 1
DRAWING TITLE EROSION AND SEDIMENT

CONTROL DETAILS

DRAWING STATUS		AL ISSUE	
	NOT FOR CO	NSTRUCTION	
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	6 R
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1
JOB No.	=	PRAWING No.	REVISION
BR22202	5	C1190	Α

SEDIMENT FENCE

MATERIALS

- 1. FABRIC: POLYPROPYLENE, POLYAMIDE, NYLON, POLYESTER OR POLYETHYLENE WOVEN OR NON-WOVEN FABRIC, AT LEAST 700mm IN WIDTH AND A MINIMUM UNIT WEIGHT OF 140GSM.
- 2. SUPPORT POSTS/STAKES AND STEEL STAR PICKETS SUITABLE FOR ATTACHING FABRIC.

INSTALLATION

- 1. WHERE POSSIBLE INSTALL SEDIMENT FENCE AT LEAST 2m FROM THE TOE OF ANY FILLING OPERATIONS THAT MAY RESULT IN SHIFTING SOIL/FILL DAMAGING THE FENCE.
- 2. ENSURE THE EXTREME ENDS OF THE FENCE ARE TURNED UP THE SLOPE AT LEAST 1.5m OR AS NECESSARY TO MINIMISE WATER BYPASSING AROUND THE FENCE.
- 3. ENSURE THE SEDIMENT FENCE IS INSTALLED IN A MANNER THAT AVOIDS THE CONCENTRATION OF FLOW ALONG THE FENCE AND THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE FENCE.
- 4. IF THE SEDIMENT FENCE IS TO BE INSTALLED ALONG THE EDGE OF THE EXISTING TREES, ENSURE CARE IS TAKEN TO PROTECT THE TREES AND THEIR ROOT SYSTEMS DURING INSTALLATION OF THE FENCE.
- 5. UNLESS DIRECTED BY THE SITE SUPERVISOR OR THE APPROVED PLANS, EXCAVATE A 200mm WIDE BY 200mm DEEP TRENCH ALONG THE PROPOSED FENCE LINE, PLACING THE EXCAVATED MATERIAL ON THE UP-SLOPE SIDE OF THE TRENCH.
- 6. ALONG THE LOWER SIDE OF THE TRENCH, APPROPRIATELY SECURE THE STAKES INTO THE GROUND SPACED NO GREATER THAN 3m IF SUPPORTED BY A TOP SUPPORT WIRE OR WEIR MESH BACKING, OTHERWISE NO GREATER THAN 2m.
- 7. WHEREVER POSSIBLE, CONSTRUCT THE SEDIMENT FENCE FROM A CONTINUOUS ROLL OF FABRIC. TO JOIN FABRIC ATTACH EACH END OF TWO OVERLAPPING STAKES WITH THE FABRIC FOLDING AROUND THE ASSOCIATED STAKE ONE TURN AND WITH TWO STAKES TIED TOGETHER WITH THE WIRE METHOD OR OVERLAP THE FABRIC TO THE NEXT ADJACENT SUPPORT POST.
- 8. SECURELY ATTACH THE FABRIC TO THE SUPPORT POSTS USING 25 X 12.5mm STAPLES, OR TIE WIRE AT MAXIMUM 150mm SPACING.
- 9. SECURELY ATTACH THE FABRIC TO THE SUPPORT WIRE/MESH (IF ANY) AT A MAXIMUM SPACING
- 10. ENSURE THE COMPLETED SEDIMENT FENCE IS AT LEAST 450mm, BUT NOT MORE THAN 700mm HIGH. IF A SPILL THROUGH WEIR IS INSTALLED, ENSURE THE CREST OF THE WEIR IS AT LEAST 300mm ABOVE GROUND LEVEL.
- 11. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC AND MESH TO PREVENT WATER FROM FLOWING UNDER THE FENCE.
- 12. IF IT IS NOT POSSIBLE TO ANCHOR THE FABRIC IN AN EXCAVATED TRENCH, THEN USE A CONTINUOUS LAYER OF SAND OR AGGREGATE TO HOLD THE FABRIC FIRMLY ON THE GROUND.

MAINTENANCE

- 1. INSPECT THE SEDIMENT FENCE AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.
- 2. REPAIR ANY TORN SECTIONS WITH A CONTINUOUS PIECE OF FABRIC FROM POST TO POST.
- 3. WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.
- 4. IF THE FENCE IS SAGGING BETWEEN STAKES, INSTALL ADDITIONAL SUPPORT POSTS.
- 5. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 1/3 THE
- 6. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

SEDIMENT BASINS

GENERAL

- 1. SEDIMENT BASIN TO BE LOCATED ABOVE THE 5YR FLOOD LINE. INSTALL SEDIMENT BASINS FOR ALL CATCHMENTS ACROSS THE PROJECT AREA.
- 2. MATERIALS USED IN THE CONSTRUCTION OF SEDIMENT BASINS SHOULD NOT HAVE AN EMERSON NUMBER OF 3 OR ABOVE (I.E. DISPERSIVE SOILS SUCH AS THE SUBSOILS THAT CAN BE ENCOUNTERED AT THE SITE CANNOT BE USED TO CONSTRUCT SEDIMENT BASINS).
- 3. A "FULL OF SEDIMENT" MARKER MUST BE PLACED IN THE SEDIMENT BASIN TO SHOW THE DESIGN DEPTH OF THE SOIL/STORAGE ZONE VOLUME AND TO INDICATE WHEN REMOVAL OF THE SEDIMENT IS TO BE CARRIED OUT
- 4. CONSTRUCTED SEDIMENT BASINS TO BE FULLY OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL THE BASINS CATCHMENT AREA ACHIEVES 70% GROUND COVER ON ALL SOIL SURFACES.
- 5. FLOCCULATION REQUIREMENTS TO BE IN ACCORDANCE WITH TABLE B17 OF THE IECA GUIDELINES. IN GENERAL 32kg OF GYPSUM TO BE ADDED TO 100m3 OF STORED WATER.

MAINTENANCE

- 1. INSPECT THE SEDIMENT BASIN DURING THE FOLLOWING PERIODS AS STATED WITHIN PAGE B.52 OF THE IECA GUIDELINES:
- 1.1. DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY, FALLING TREES OR CONSTRUCTION ACTIVITY HAS DAMAGED ANY COMPONENT OF THE SEDIMENT BASIN. IF DAMAGE HAS OCCURRED, REPAIR IT.
- 1.2. AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS. IF DAMAGE HAS OCCURRED, MAKE THE NECESSARY REPAIRS.
- 1.3. AT LEAST WEEKLY DURING THE NOMINATED WET SEASON (IF ANY) OTHERWISE AT LEAST FORTNIGHTLY.
- 1.4. PRIOR TO, AND IMMEDIATELY AFTER, PERIODS OF "STOP WORK" OR SITE "SHUTDOWN"
- 2. CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL STORAGE VOLUME. PLACE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX WITH DRY SOIL ON THE SITE.
- 3. DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
- 4. CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
- 5. CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OR PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT; MAKE ALL NECESSARY REPAIRS.
- 6. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
- 7. SUBMERGED INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH INFLOW EVENT.

REMOVAL OR CONVERSION OF SEDIMENT BASIN

- 1. WHEN GRADING AND CONSTRUCTION IN THE DRAINAGE AREA ABOVE A TEMPORARY SEDIMENT BASIN IS COMPLETED AND THE DISTURBED AREAS ARE ADEQUATELY STABILISED, THE BASIN MUST BE REMOVED OR OTHERWISE INCORPORATED INTO THE PERMANENT STORMWATER DRAINAGE SYSTEM. IN EITHER CASE, SEDIMENT SHOULD BE CLEARED AND PROPERLY DISPOSED OF AND THE BASIN AREA STABILISED
- 2. BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN OR SPILLWAY, INSTALL ALL NECESSARY SHORT-TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT
- 3. ALL WATER AND SEDIMENT MUST BE REMOVED FROM THE BASIN PRIOR TO THE DAM'S REMOVAL. DISPOSE OF SEDIMENT AND WATER IN A MANNER THAT WILL NOT CREATE AN **EROSION OR POLLUTION HAZARD**
- 4. BRING THE DISTURBED AREA TO A PROPER GRADE, THEN SMOOTH, COMPACT AND STABILISE OR REVEGETATE AS REQUIRED TO ESTABLISH A STABLE LAND SURFACE.

MATERIAL STOCKPILING:

- 1. THE CONSTRUCTION CONTRACTOR IS TO ADHERE TO THE FOLLOWING SOIL AND STOCKPILE MANAGEMENT PRACTISES. STOCKPILES OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED MUST BE:
- 2. APPROPRIATELY PROTECTED FROM WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
- 3. LOCATED AT LEAST 2m FROM ANY HAZARDOUS AREA, RETAINED VEGETATION, OR CONCENTRATED DRAINAGE LINE.
- 4. LOCATED UP-SLOPE OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM.
- 5. PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 28 DAYS.
- 6. PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
- 7. PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 5 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
- 8. A SUITABLE FLOW DIVERSION SYSTEM MUST BE ESTABLISHED IMMEDIATELY UP-SLOPE OF A STOCKPILE OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, IF THE UP-SLOPE CATCHMENT AREA DRAINING TO THE STOCKPILE EXCEEDS 1500m2.

STABILISED ENTRY/EXIT NOTES

MATERIALS

- ROCK: WELL GRADED, HARD, ANGULAR, EROSION RESISTANT ROCK, NOMINAL DIAMETER OF 50mm TO 75mm (SMALL DISTURBANCES) OR 100 TO 150mm (LARGE DISTURBANCES). ALL REASONABLE MEASURES MUST BE TAKEN TO OBTAIN ROCK OF NEAR UNIFORM SIZE.
- FOOTPATH STABILISING AGGREGATE: 25 TO 50mm GRAVEL OR AGGREGATE.
- GEOTEXTILE FABRIC: HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH ('BIDIM' A24 OR EQUIVALENT).

- 1. REFER TO APPROVED PLANS FOR LOCATION AND DIMENSIONAL DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER
- 2. CLEAR THE LOCATION OF THE VIBRATION GRID, REMOVING STUMPS, ROOTS AND OTHER VEGETATION TO PROVIDE A FIRM FOUNDATION SO THAT THE ROCK IS NOT PRESSED INTO SOFT GROUND. CLEAR SUFFICIENT WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY THAT NECESSARY FOR THE EXIT. DO NOT CLEAR ADJACENT AREAS UNTIL THE REQUIRED EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE
- 3. IF THE EXPOSED SOIL IS SOFT, PLASTIC OR CLAYEY, PLACE A SUB-BASE OF CRUSHED ROCK OR A LAYER OF HEAVY-DUTY FILTER CLOTH TO PROVIDE A FIRM FOUNDATION.
- 4. ENSURE THAT THE INSTALLATION OF THE VIBRATION GRID INCLUDES ADEQUATE SEDIMENT STORAGE VOLUME UNDER THE GRID. WHERE NECESSARY, INSTALL SUITABLE PRECAST SEDIMENT COLLECTION CHAMBERS
- 5. PLACE A ROCK PAD/RAMP FORMING A MINIMUM 200mm THICK LAYER OF CLEAN. OPEN-VOID ROCK OVER THE ROADWAY BETWEEN THE VIBRATION GRID AND THE SEALED STREET TO PREVENT TYRES FROM PICKING UP MORE SOIL AFTER THEY HAVE BEEN CLEANED.
- 6. IF THE ASSOCIATED CONSTRUCTION SITE IS UP-SLOPE OF THE ROCK PAD, THUS CAUSING STORMWATER RUNOFF TO FLOW TOWARDS THE ROCK PAD. THEN FORM A MINIMUM 300mm HIGH FLOW CONTROL BERM ACROSS THE ROCK PAD TO DIVERT SUCH RUNOFF TO A SUITABLE SEDIMENT TRAP
- 7. THE TOTAL LENGTH OF THE VIBRATION GRIP AND ROCK RAMPS SHOULD BE AT LEAST 15m WHERE PRACTICABLE, AND AS WIDE AS THE FULL WIDTH OF THE ENTRY OR EXIT AND AT LEAST 3m. THE ROCK RAMP SHOULD COMMENCE AT THE EDGE OF THE OFF-SITE SEALED ROAD OR PAVEMENT
- 8. FLARE THE END OF THE ROCK PAD WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES DO NOT TRAVEL OVER UNPROTECTED SOIL.

- 1. INSPECT VIBRATION GRID PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF-PRODUCING RAINFALL. OR OTHERWISE AT FORTNIGHTLY INTERVALS
- 2. IF SAND, SOIL, SEDIMENT OR MUD IS TRACKED OR WASHED ONTO THE ADJACENT SEALED ROADWAY, THEN SUCH MATERIAL MUST BE PHYSICALLY REMOVED, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
- 3. IF NECESSARY FOR SAFETY REASONS, THE ROADWAY SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE ROADWAY.
- 4. WHEN THE VOIDS BETWEEN THE ROCK BECOMES FILLED WITH MATERIAL AND THE EFFECTIVENESS OF THE ROCK RAMPS ARE REDUCED TO A POINT WHERE SEDIMENT IS BEING TRACKED OFF THE SITE, A NEW 100mm LAYER OF ROCK MUST BE ADDED AND/OR THE ROCK PAD MUST BE EXTENDED.
- 5. ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.
- 6. DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

CHECK DAM SEDIMENT TRAPS

INSTALLATION

- 1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- 2. PRIOR TO PLACEMENT OF THE SEDIMENT TRAP, ENSURE THE DRAINAGE CHANNEL IS DEEP ENOUGH TO PREVENT WATER BEING UNSAFELY DIVERTED OUT OF THE DRAIN ONCE THE CHECK DAMS ARE INSTALLED
- 3. LOCATE EACH CHECK DAM SEDIMENT TRAP AS DIRECTED WITHIN THE APPROVED PLANS, OR OTHERWISE AT SUCH A SPACING TO ACHIEVE THE REQUIRED SEDIMENT TRAPPING OUTCOMES.
- 4. IF THE CHECK DAMS ARE ALSO BEING USED TO CONTROL EROSION WITHIN THE DRAINAGE CHANNEL, THEN LOCATE EACH SUCCESSIVE CHECK DAM SUCH THAT THE CREST OF THE IMMEDIATE DOWNSTREAM DAM IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM CHECK DAM.
- 5. ENSURE SAND BAGS EXTEND UP THE CHANNEL BANKS (WHERE PRACTICAL) TO A LEVEL AT LEAST 100mm ABOVE THE CREST LEVEL OF THE CHECK DAM.

MAINTENANCE

- 1. INSPECT EACH CHECK DAM AND THE DRAINAGE CHANNEL AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING RAINFALL.
- 2. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN ANY OF THE CHECK DAMS, THEN CHECK THE SPACING OF THE DAMS AND WHERE NECESSARY INSTALL INTERMEDIATE CHECK DAMS OR A SUITABLE CHANNEL LINER.
- 3. CHECK FOR DISPLACEMENT OF THE CHECK DAMS.
- 4. CHECK FOR SOIL SCOUR AROUND THE ENDS OF EACH CHECK DAM. IF SUCH EROSION IS OCCURRING, CONSIDER EXTENDING THE WIDTH OF THE CHECK DAM TO AVOID SUCH PROBLEMS.
- IF SEVERE SOIL EROSION OCCURS EITHER UNDER OR AROUND THE CHECK DAMS. THEN SEEK EXPERT ADVICE ON AN ALTERNATIVE TREATMENT MEASURE.
- 6. DE-SILT SEDIMENT TRAP IF THE SEDIMENT LEVEL EXCEEDS 1/3 THE CREST HEIGHT.
- 7. DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

KERB INLET SEDIMENT TRAPS

FROM ICEA (INTERNATIONAL EROSION SEDIMENT ASSOCIATION) AUSTRALASIA STANDARD DRAWING ESC-03 (DEC 09).

MATERIALS

- 1. SOCKS: MINIMUM 200mm DIAMETER SYNTHETIC OR BIODEGRADABLE TUBES MANUFACTURED FROM NON-WOVEN OR COMPOSITE FABRIC SUITABLE FOR THE 'FILTRATION' OF COARSE SEDIMENTS.
- 2. FILL MATERIAL: STRAW, CANE MULCH, COMPOSITE MATERIAL (AS4454), COARSE SAND, OR CLEAN AGGREGATE.
- 3. STAKES: MINIMUM 25 x 25mm TIMBER.

INSTALLATION

- 1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- 2. ENSURE THE SOCKS ARE PLACED INDIVIDUALLY OR COLLECTIVELY (AS A SINGLE SEDIMENT TRAP) SUCH THAT:
- (i) LEAKAGE AROUND OR UNDER THE SOCKS IS MINIMISED
- (ii) ADJOINING SOCKS ARE TIGHTLY BUTTED OR OVERLAPPED AT LEAST 450mm.

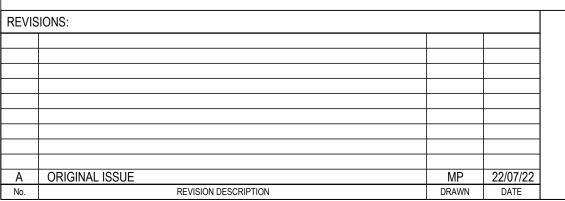
FORMED POND BEFORE FLOWING OVER THE DOWN-SLOPE END OF THE SEDIMENT TRAP.

- (iii) THE SURFACE AREA OF POTENTIAL WATER PONDING UP-SLOPE OF EACH SEDIMENT TRAP IS MAXIMISED. (iv) TO THE MAXIMUM DEGREE PRACTICAL, ALL SEDIMENT-LADEN WATER WILL PASS THROUGH THE
- 3. WHEN PLACED ACROSS THE INVERT OF MINOR DRAINS, ENSURE THE SOCKS ARE PLACED SUCH THAT (i) THE CREST OF THE DOWNSTREAM SOCK IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE
- UPSTREAM SOCK (IF ANY); (ii) EACH SOCK EXTENDS UP THE CHANNEL BANKS SUCK THAT THE CREST OF THE SOCK AT ITS LOWEST POINT IS LOWER THAN GROUND LEVEL AT EITHER END OF THE SOCK.
- 4. IF STAKES ARE REQUIRED TO ANCHOR THE SOCKS, THEIR SPACING DOES NOT EXCEED 1.2m OR SIX TIMES THE SOCK DIAMETER (WHICHEVER IS THE LESSER). A MAXIMUM STAKE SPACING OF 0.3m APPLIES WHEN USED TO FORM CHECK DAMS.

MAINTENANCE

- 1. INSPECT ALL FILTER SOCKS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF PRODUCING STORMS OR OTHERWISE AT WEEKLY INTERVALS.
- 2. REPAIR OR REPLACE DAMAGED SOCKS.
- 3. THE BULK OF THE SEDIMENT COLLECTED BEHIND THE FILTER SOCKS SHOULD BE REMOVED BY SHOVEL AFTER EACH STORM EVENT.
- 4. REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

- 1. ALL SAND, SOIL, SEDIMENT OR MUD MUST BE PHYSICALLY REMOVED FROM SEALED SURFACES, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
- 2. IF NECESSARY FOR SAFETY REASONS, THE SEALED SURFACE SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE SURFACE.
- 3. DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- 4. ALL SYNTHETIC (PLASTIC) MESH OR OTHER NON READILY BIODEGRADABLE MATERIAL MUST BE REMOVED FROM THE SITE ONCE THE SLOPE OR DRAIN IS STABILISED, OR THE SOCKS HAVE DETERIORATED TO A POINT WHERE THEY ARE NO LONGER PROVIDING THEIR INTENDED DRAINAGE OR SEDIMENT CONTROL FUNCTION.







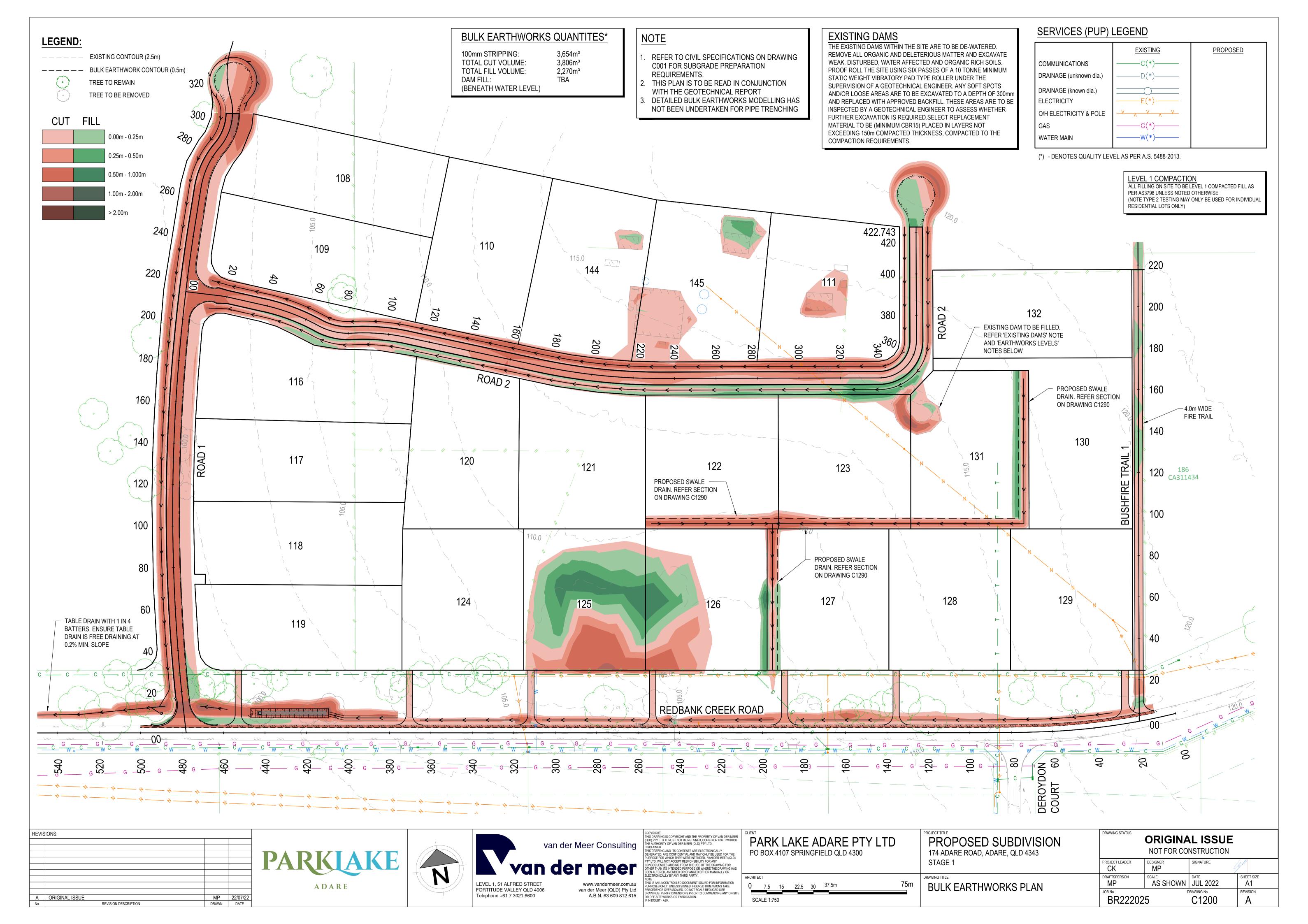
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IF IN DOUBT - ASK.

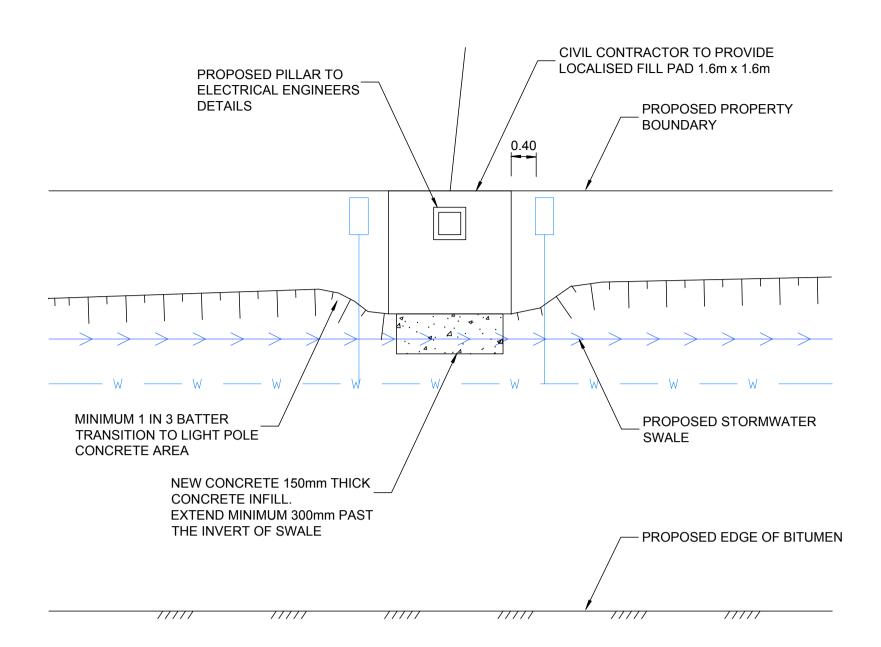
PARK LAKE ADARE PTY LTD PO BOX 4107 SPRINGFIELD QLD 4300

PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGE 1

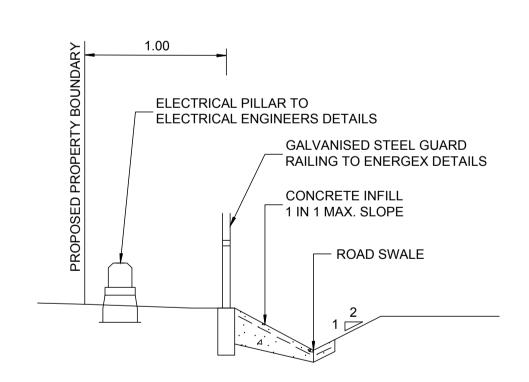
CONTROL NOTES

ORIGINAL ISSUE NOT FOR CONSTRUCTION DRAFTSPERSON SHEET SIZE MP AS SHOWN | JUL 2022 A1 EROSION AND SEDIMENT BR222025 C1191

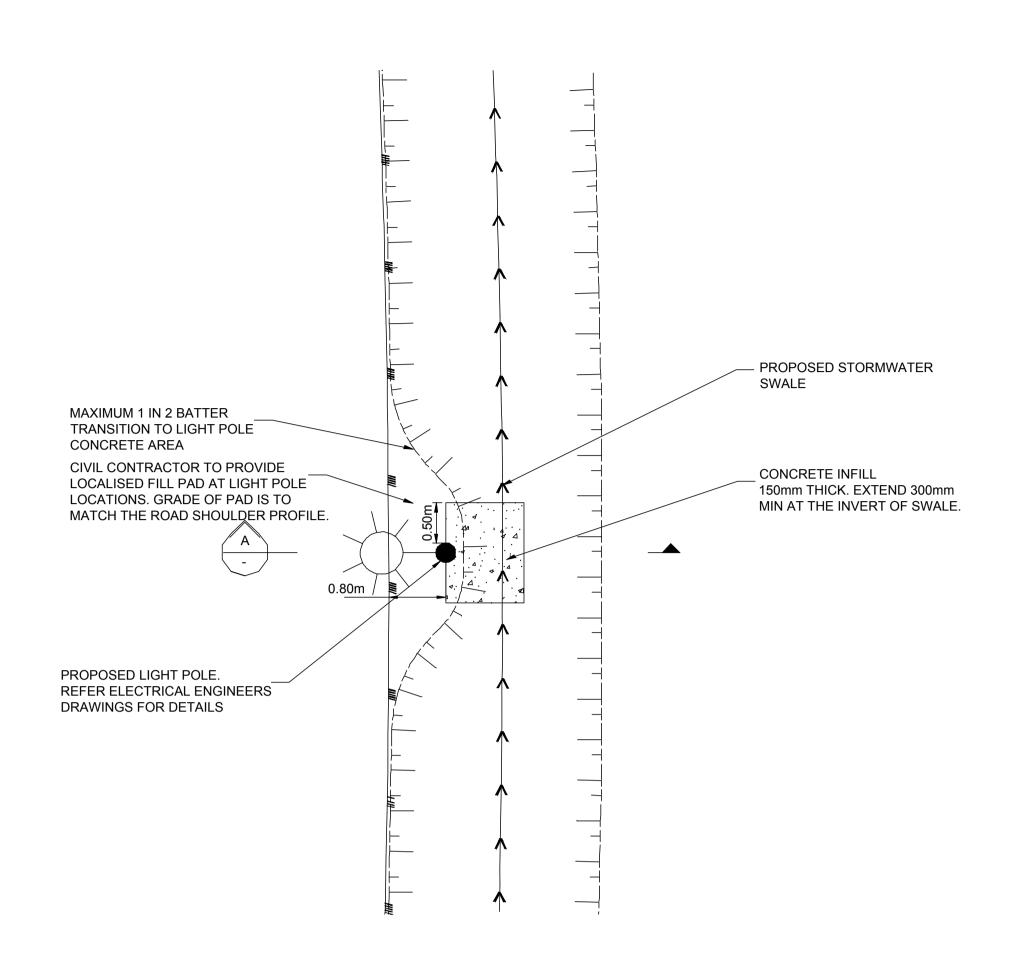




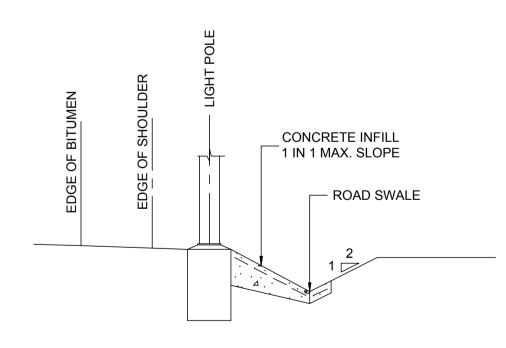
TYPICAL ELECTRICAL PILLAR PROTECTION DETAIL SCALE 1:50



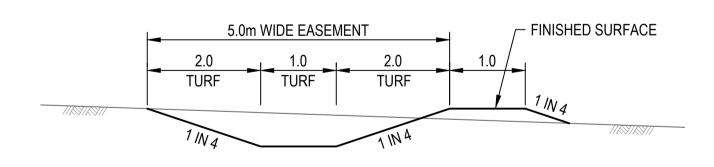
B TYPICAL ELECTRICAL PILLAR SECTION
SCALE 1:50



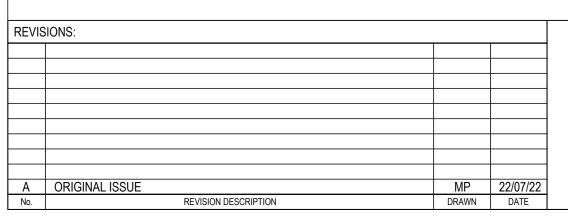
TYPICAL LIGHT POLE PROTECTION DETAIL
SCALE 1:50



TYPICAL LIGHT POLE SECTION A
SCALE 1:50



TYPICAL SWALE DRAIN SECTION



PARKIAKE





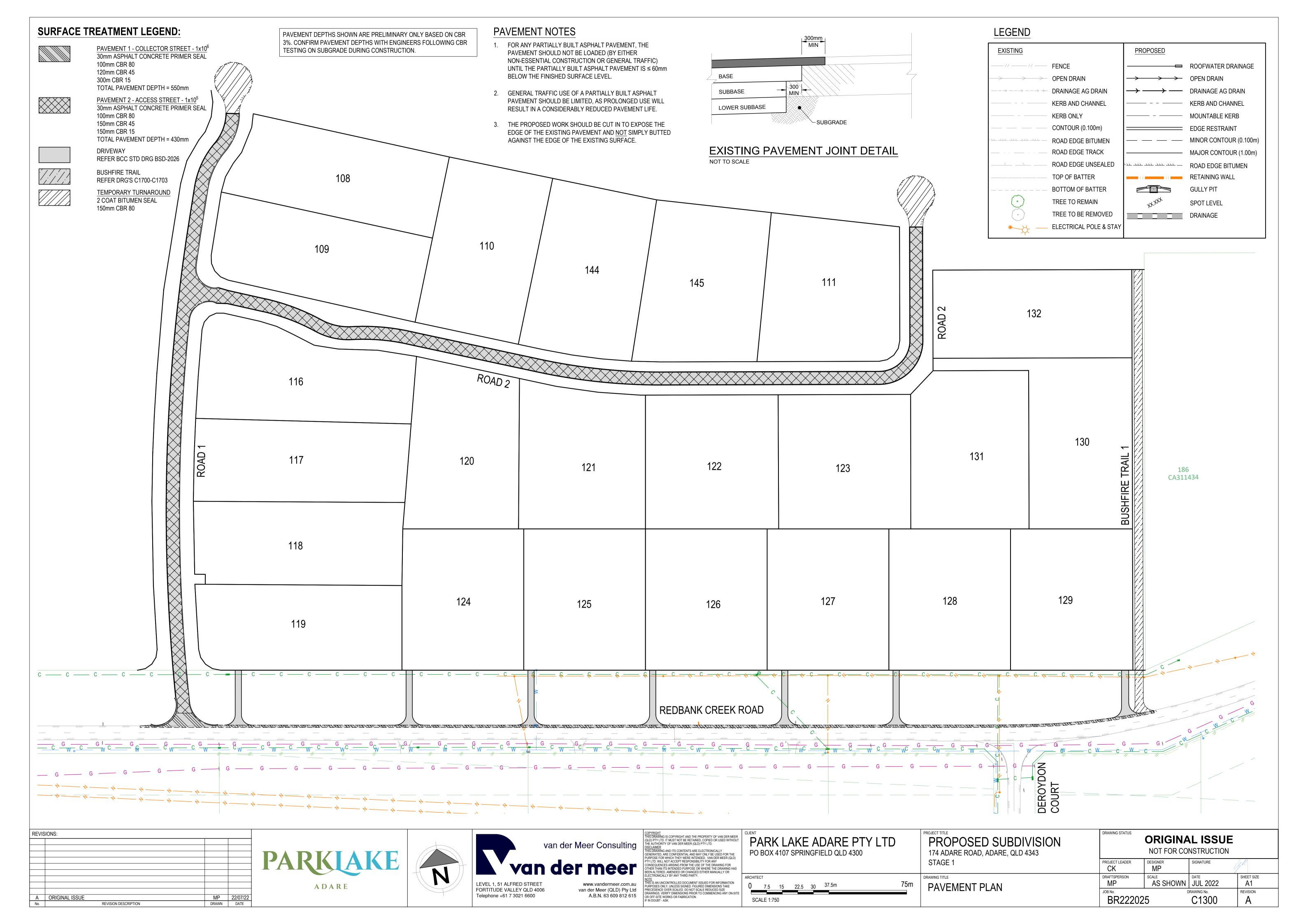
CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

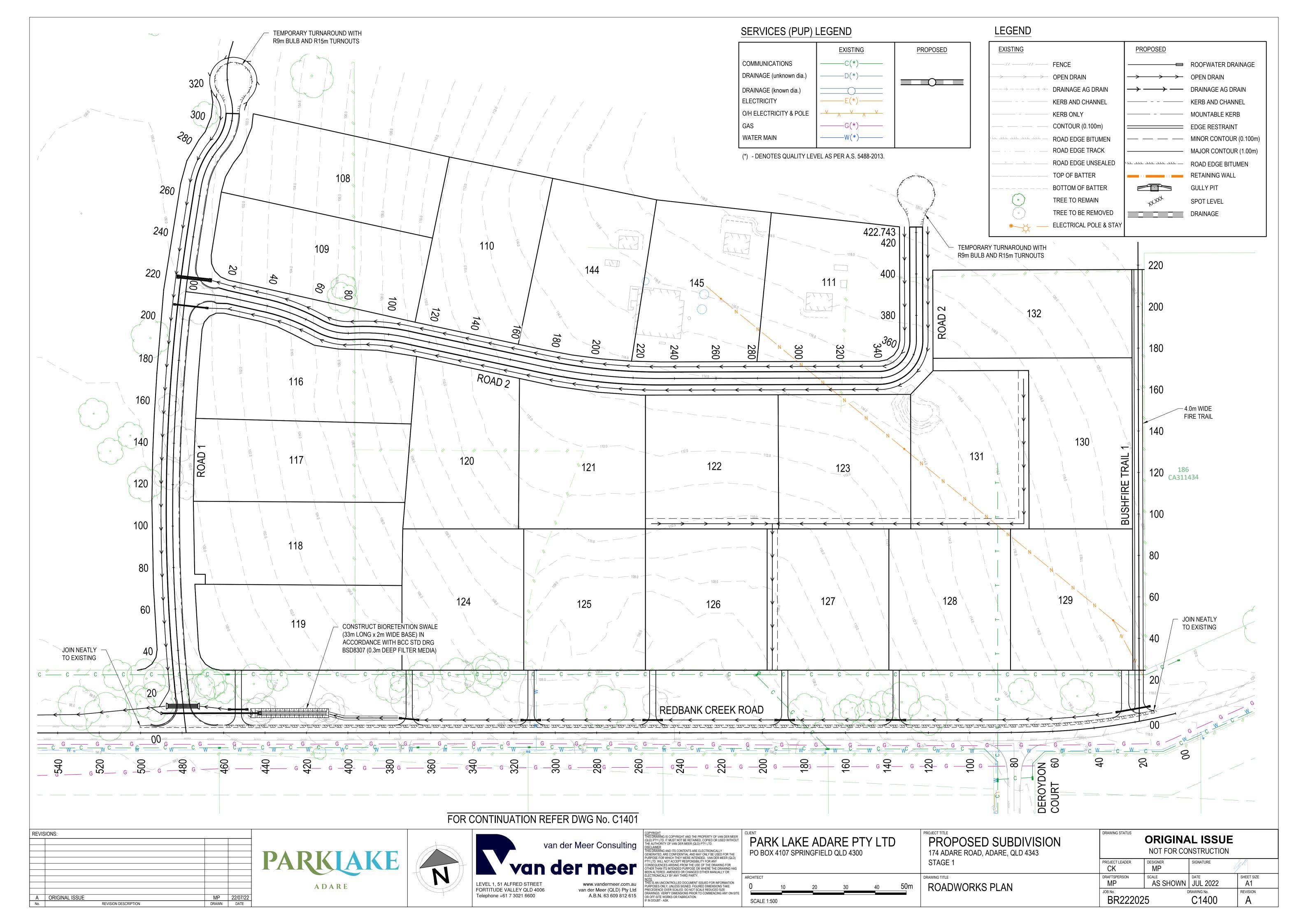
SCALE 1:50

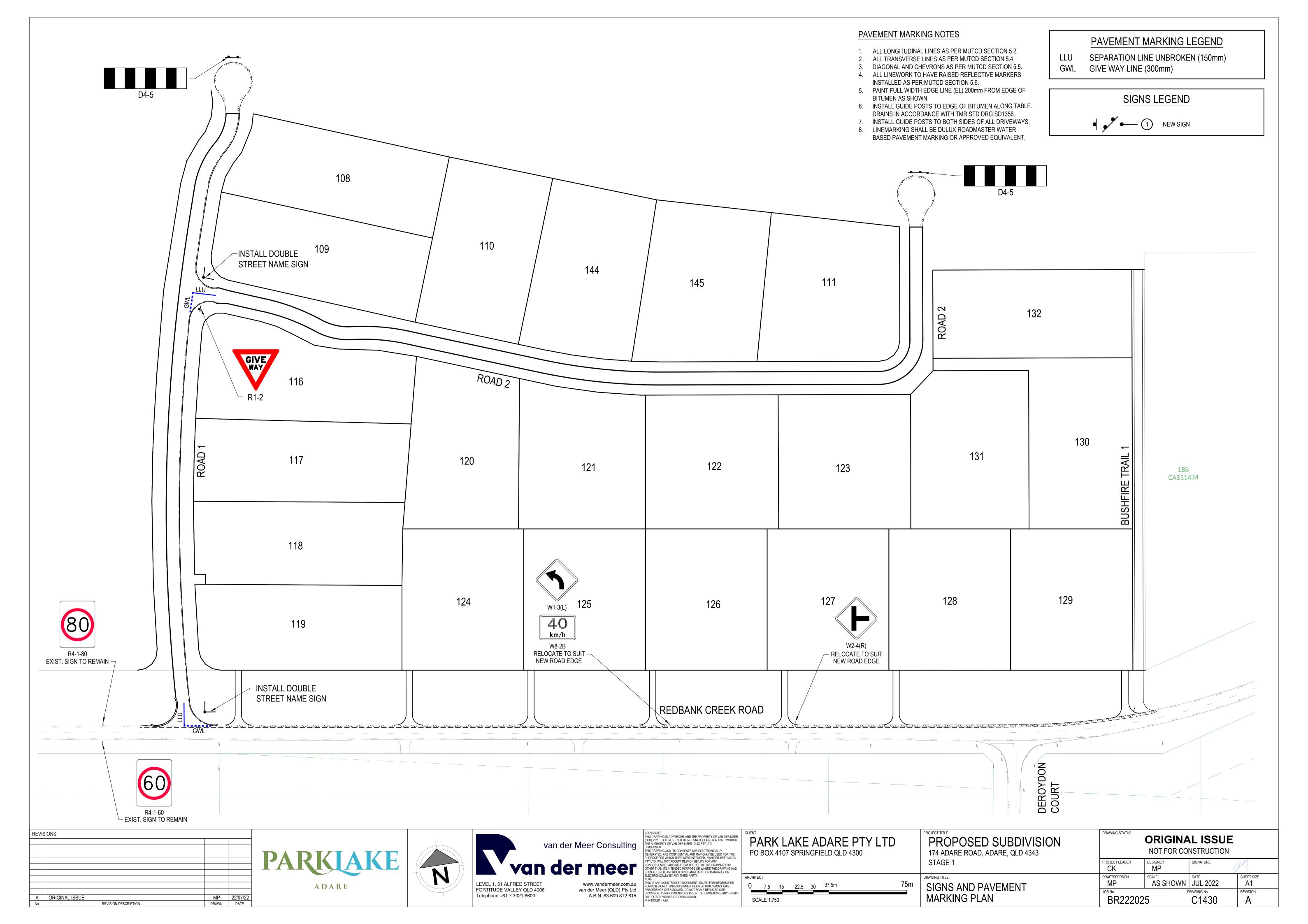
PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGE 1

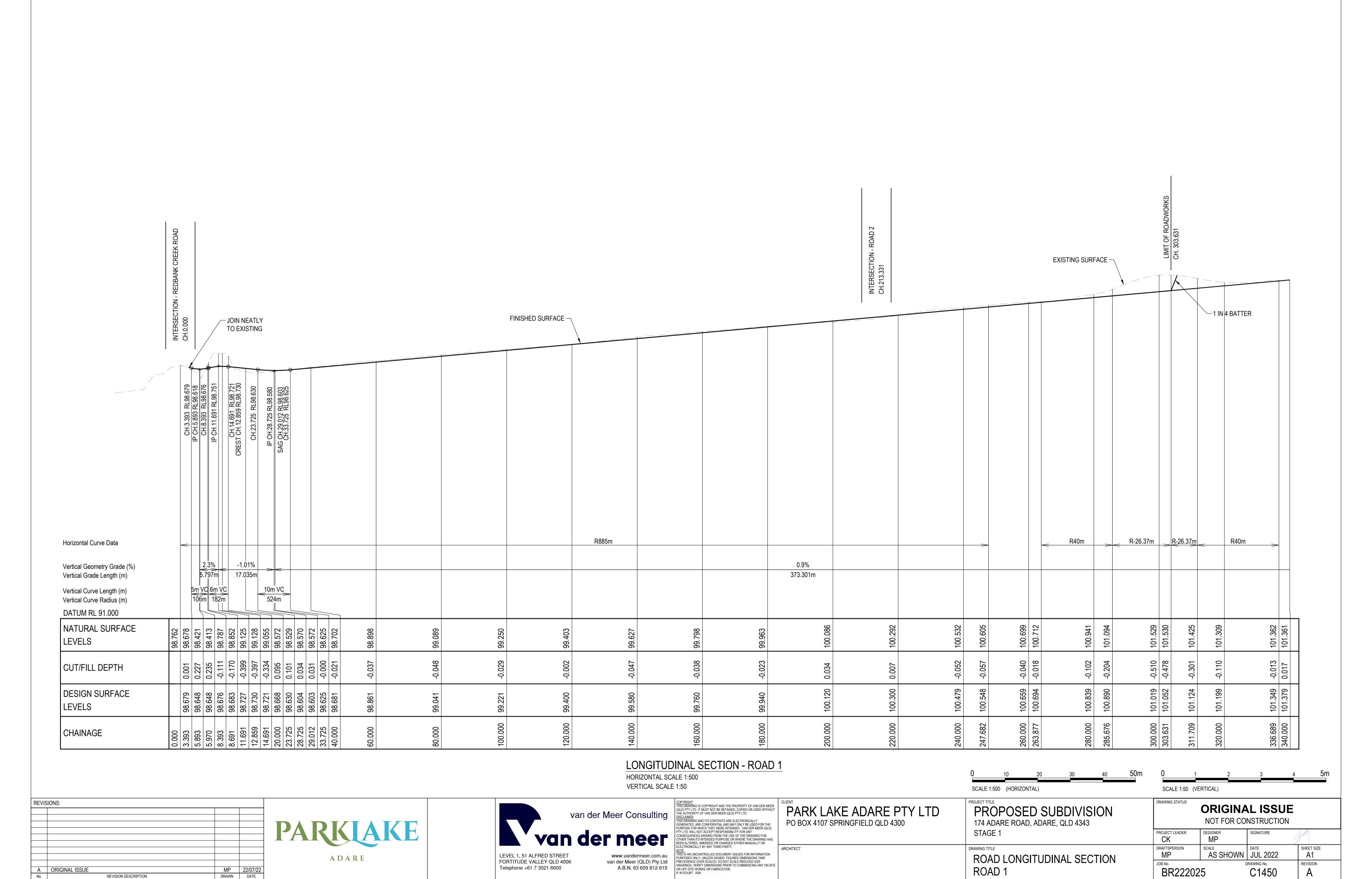
BULK EARTHWORKS DETAILS

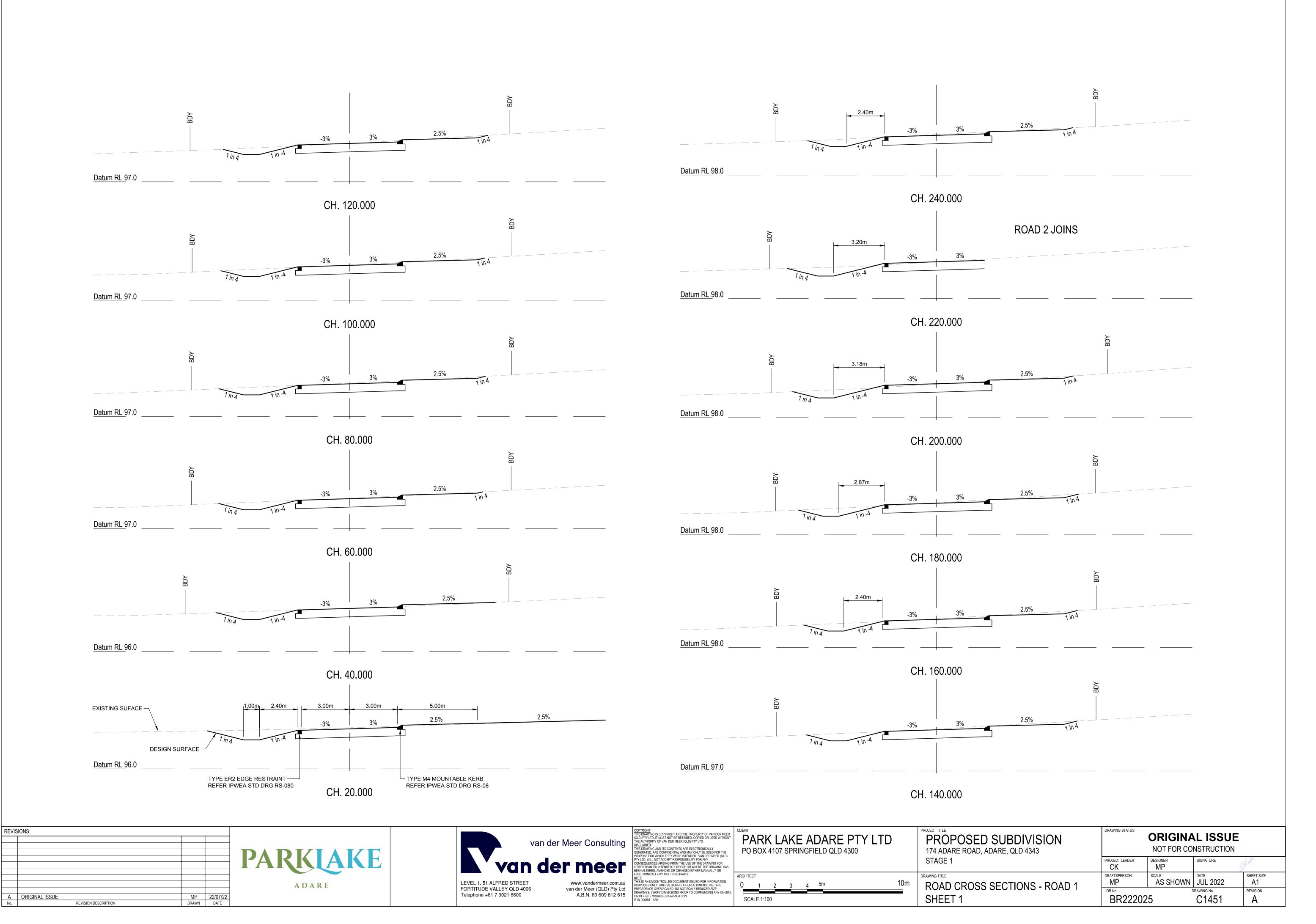
ORIGINAL ISSUE NOT FOR CONSTRUCTION					
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	4R		
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1		
JOB No. BR22202	_	RAWING No. C1290	REVISION		

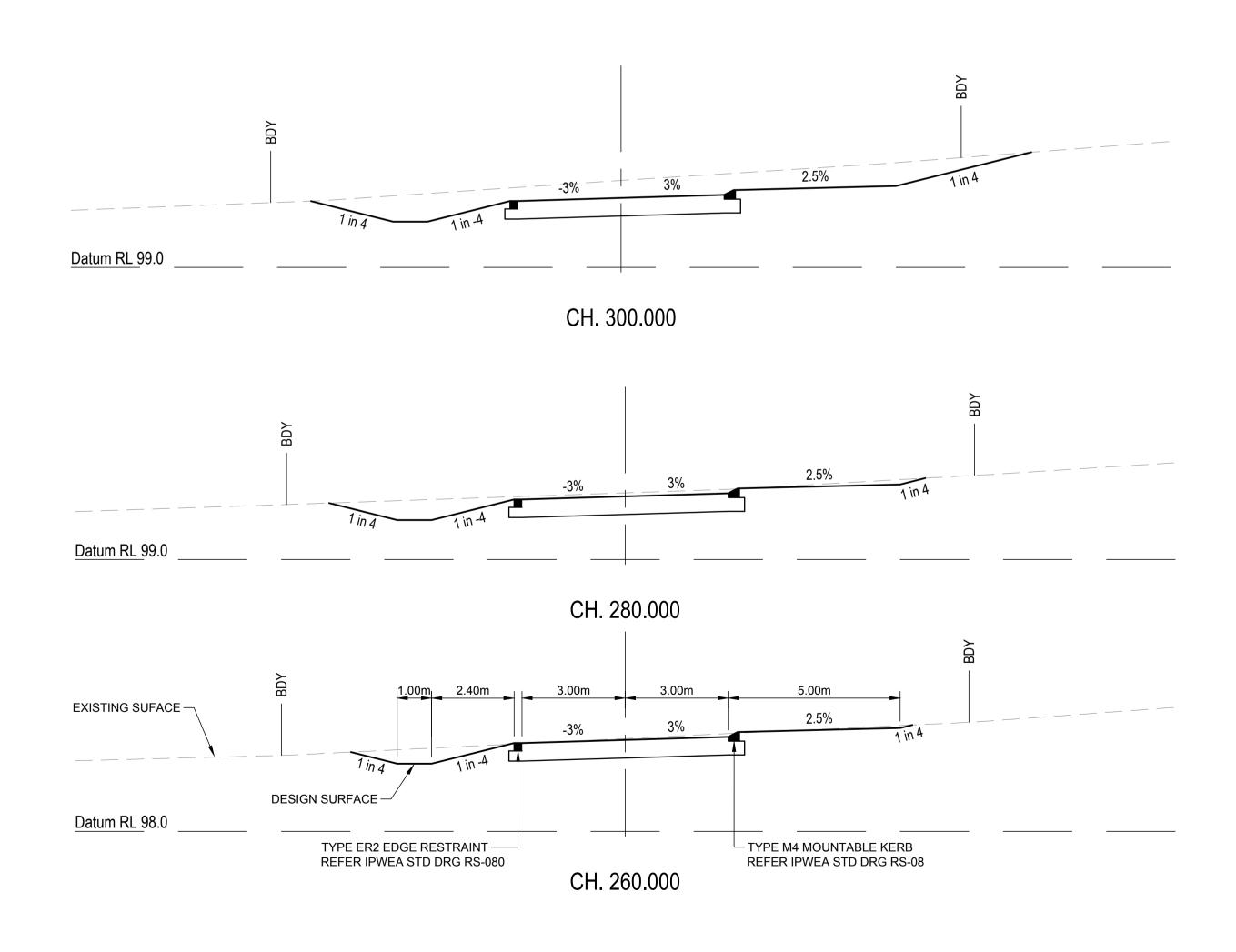


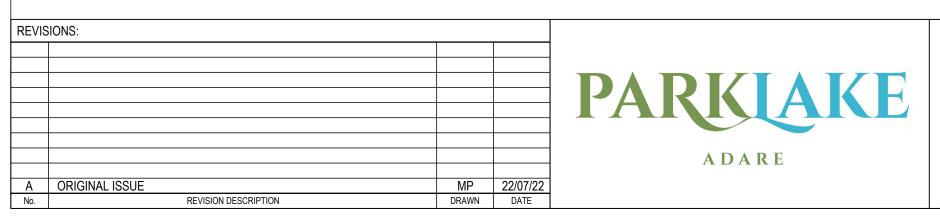




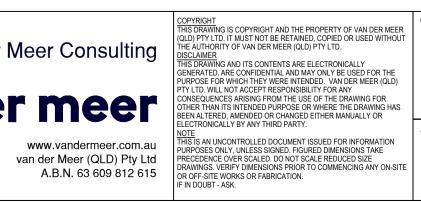










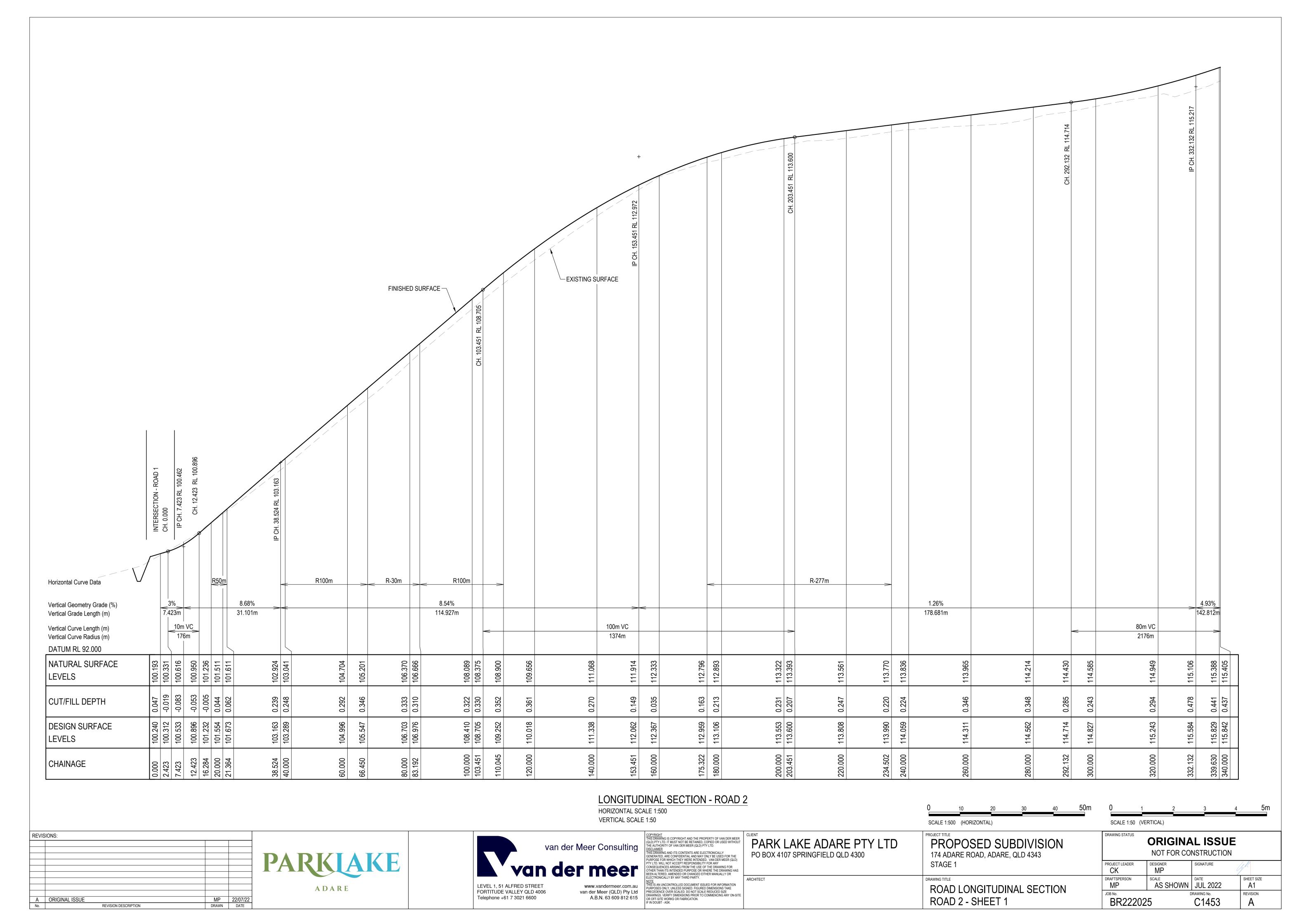


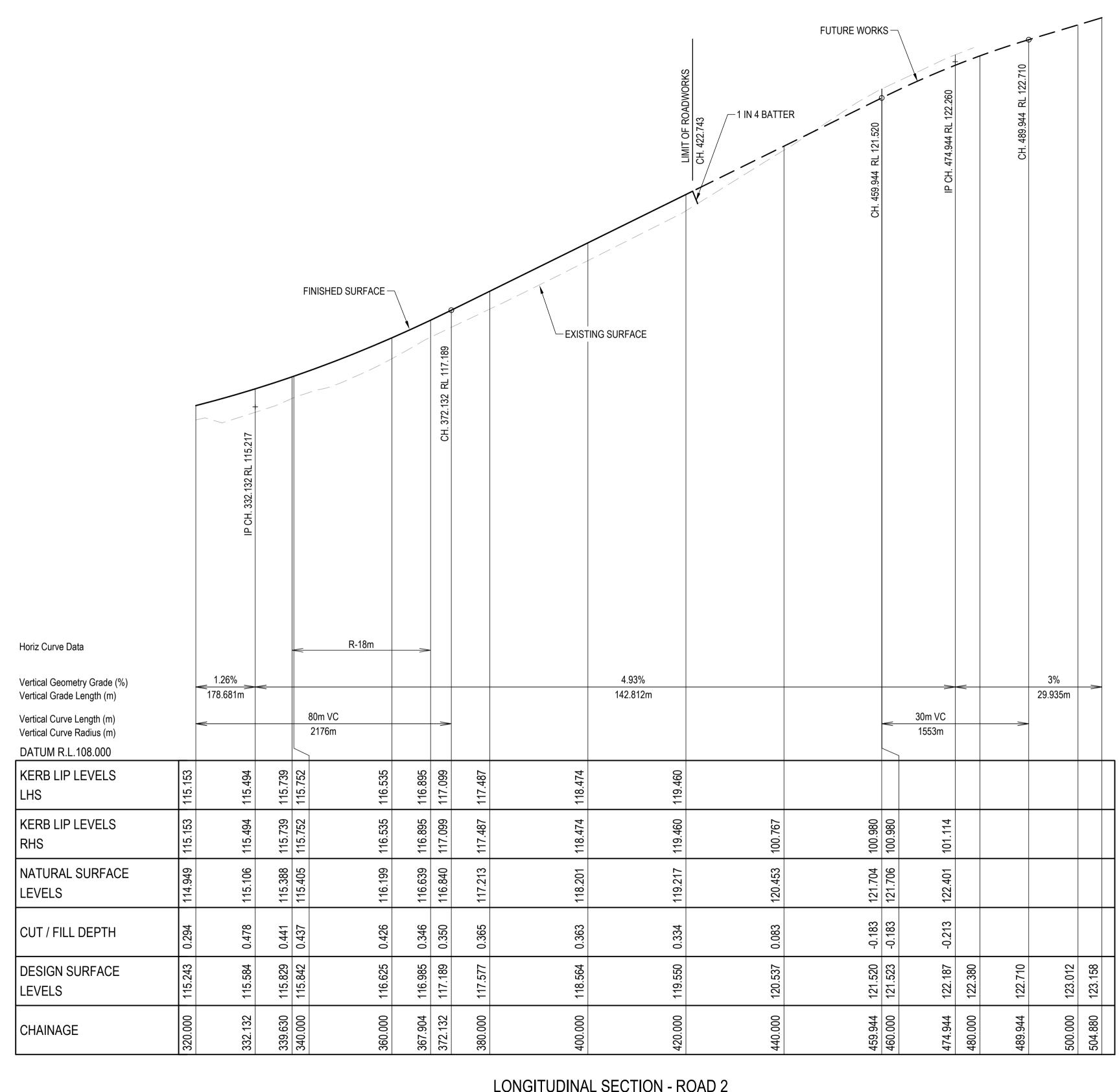
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SCALE 1:100

PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGE 1
ROAD CROSS SECTIONS - ROAD 1 SHEET 2

ORIGINAL ISSUE NOT FOR CONSTRUCTION						
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	/y/l			
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1			
JOB No. BR22202	_	C1452	REVISION			





LONGITUDINAL SECTION - ROAD 2 HORIZONTAL SCALE 1:500

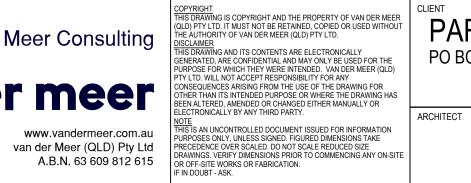
VERTICAL SCALE 1:50

REVISIONS: ADARE A ORIGINAL ISSUE

REVISION DESCRIPTION







PARK LAKE ADARE PTY LTD	
PO BOX 4107 SPRINGFIELD QLD 4300	

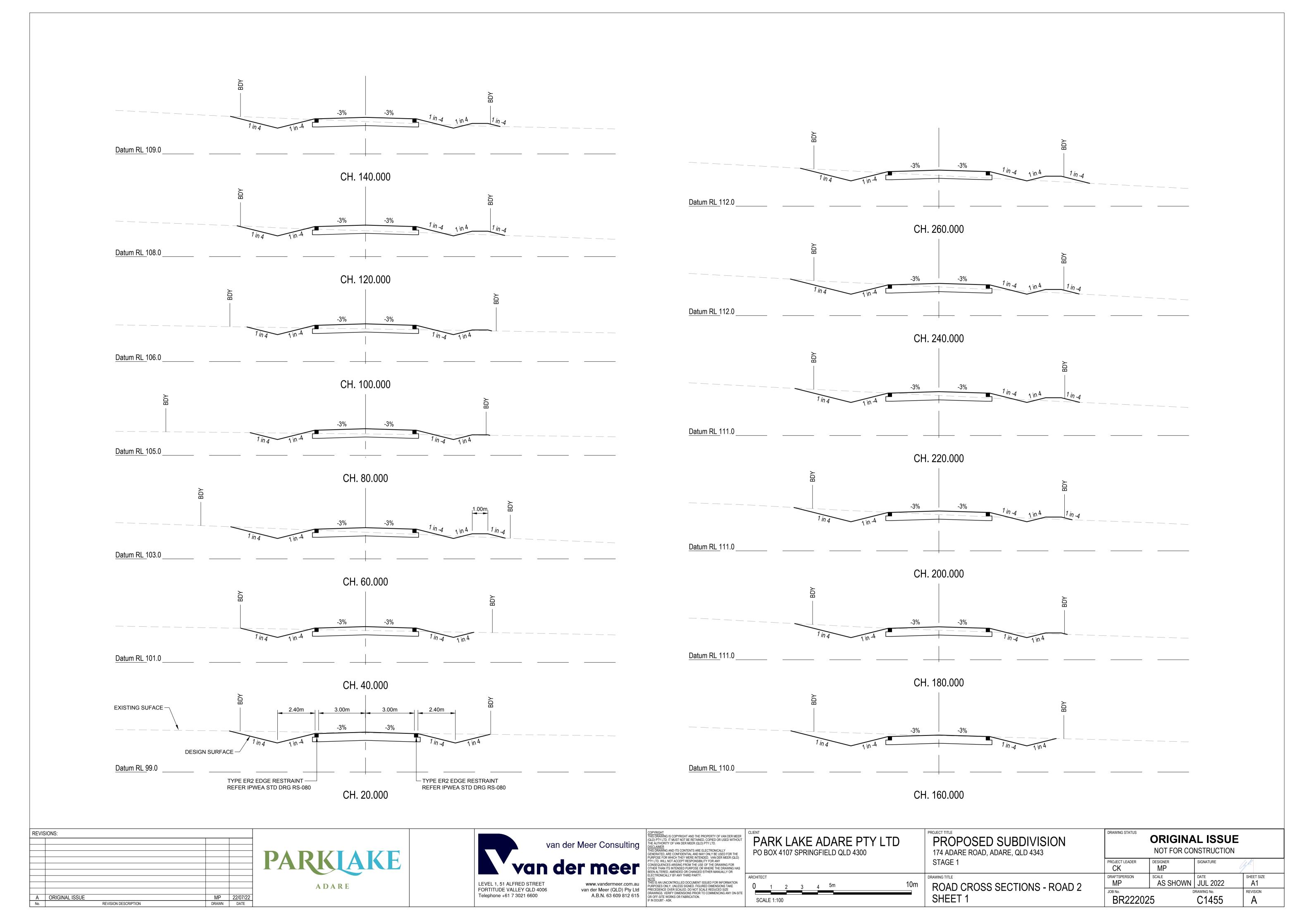
PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGE 1
ROAD LONGITUDINAL SECTION

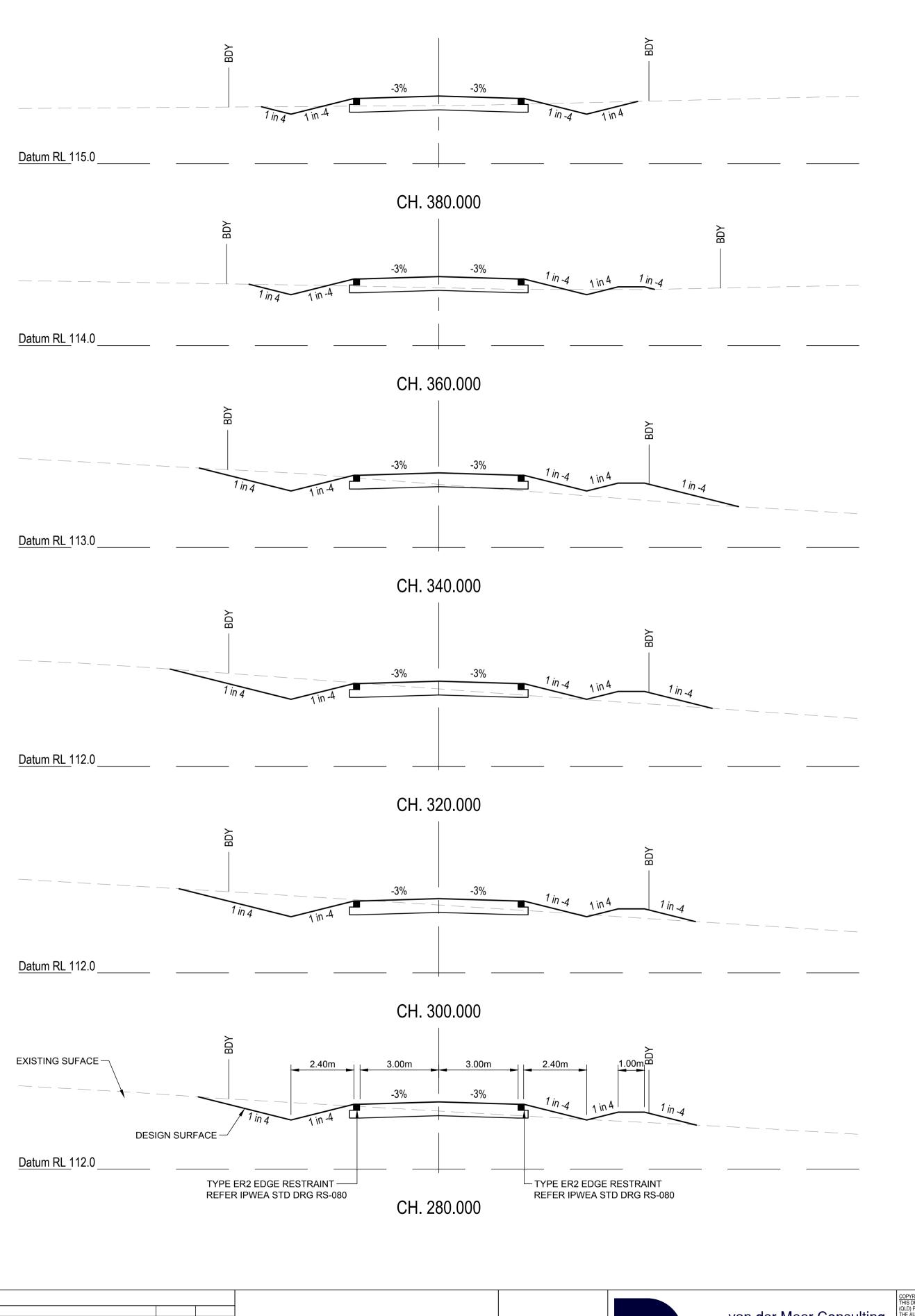
SCALE 1:500 (HORIZONTAL)

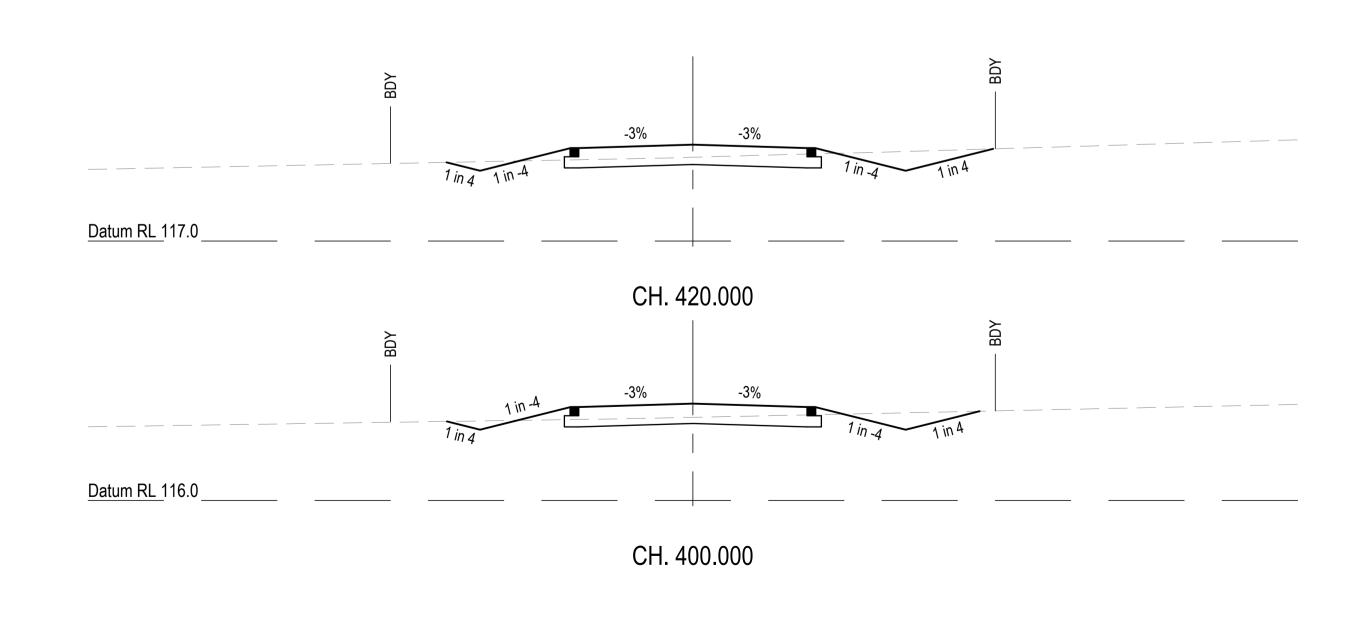
ROAD 2 - SHEET 2

50m

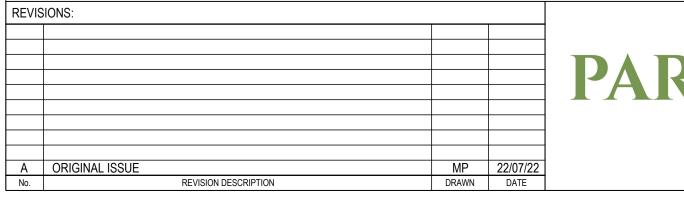
SCALE 1:50 (VE	ERTICAL)		
DRAWING STATUS	0 0	AL ISSUE NSTRUCTION	
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	1 P
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1
JOB No. BR22202	_	C1454	REVISION







SHEET 2







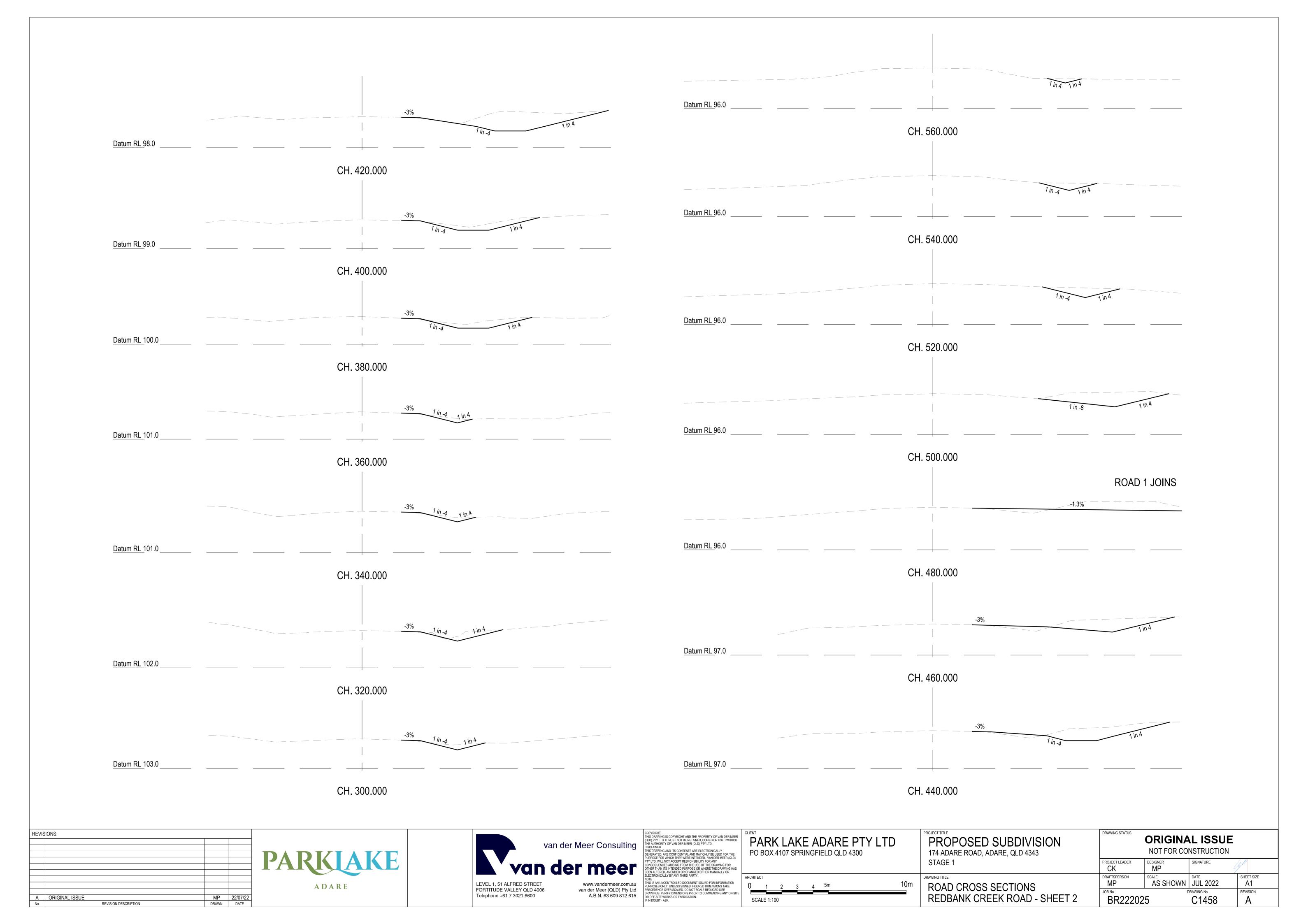
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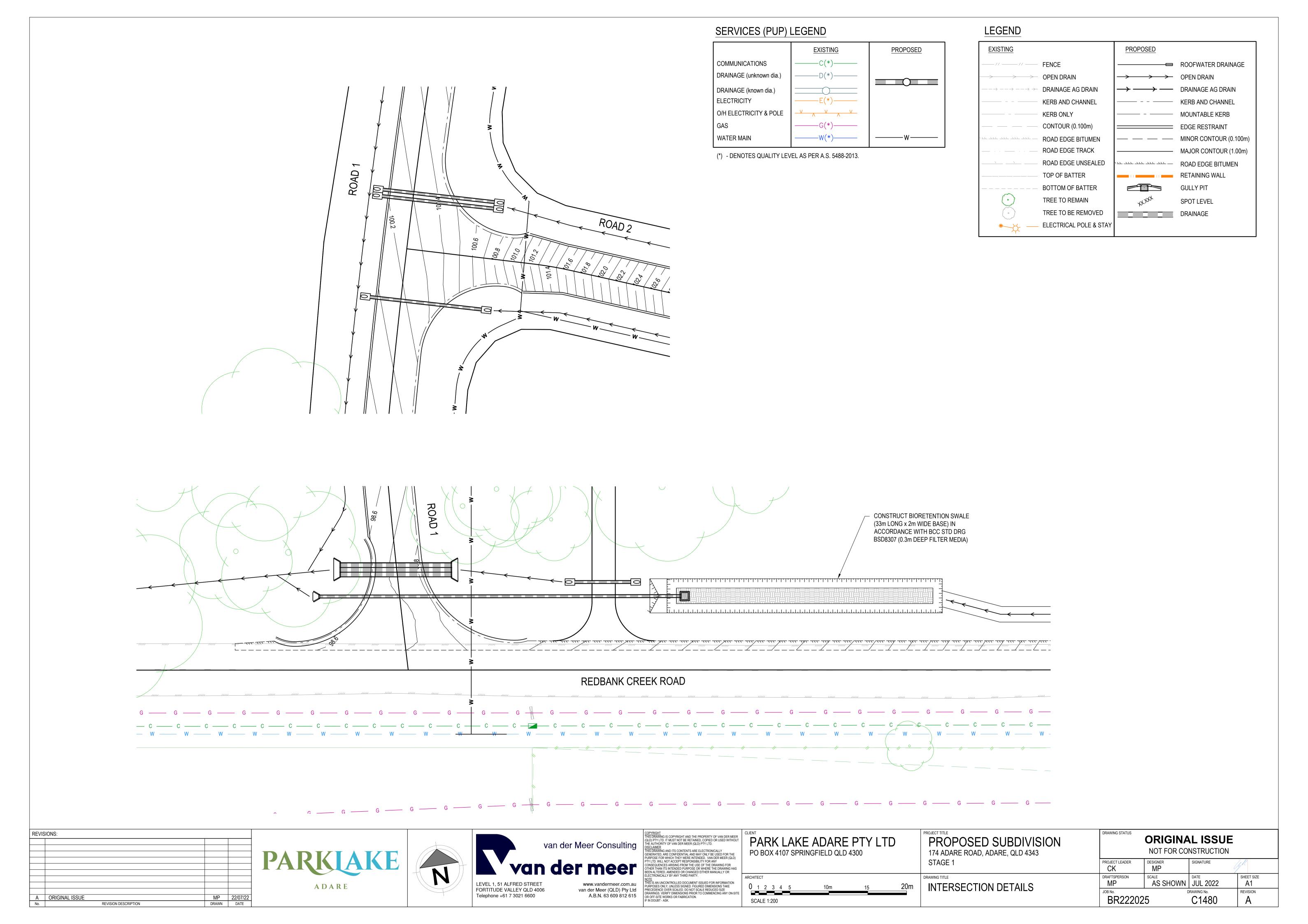
SCALE 1:100

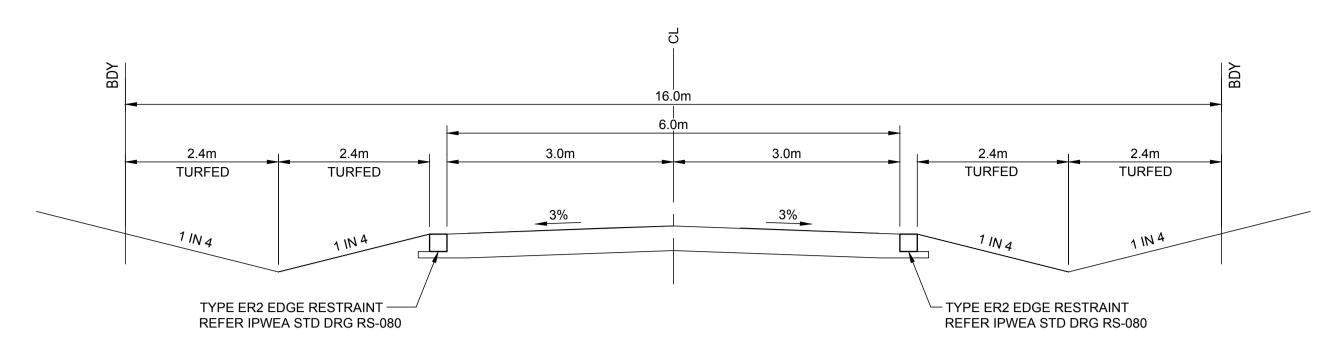
PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
CTACE 4
STAGE 1
DRAWING TITLE
ROAD CROSS SECTIONS - ROAD 2
RUAD CRUSS SECTIONS - RUAD Z

DRAWING STATUS	ORIGINA NOT FOR CO	AL ISSUE NSTRUCTION	
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	/s/l
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1
JOB No. BR22202	_	RAWING No. C1456	REVISION

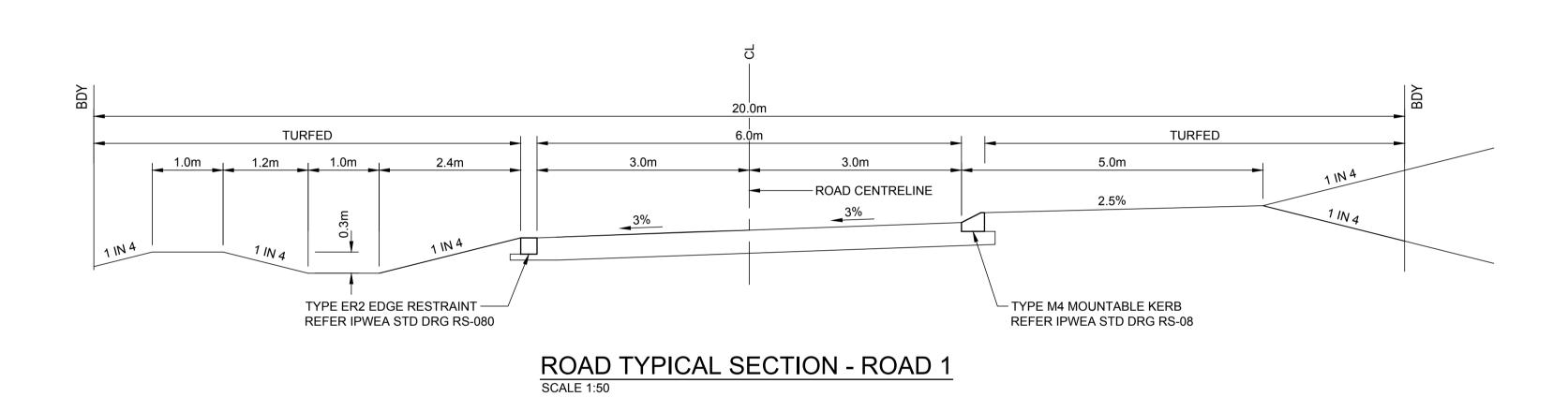


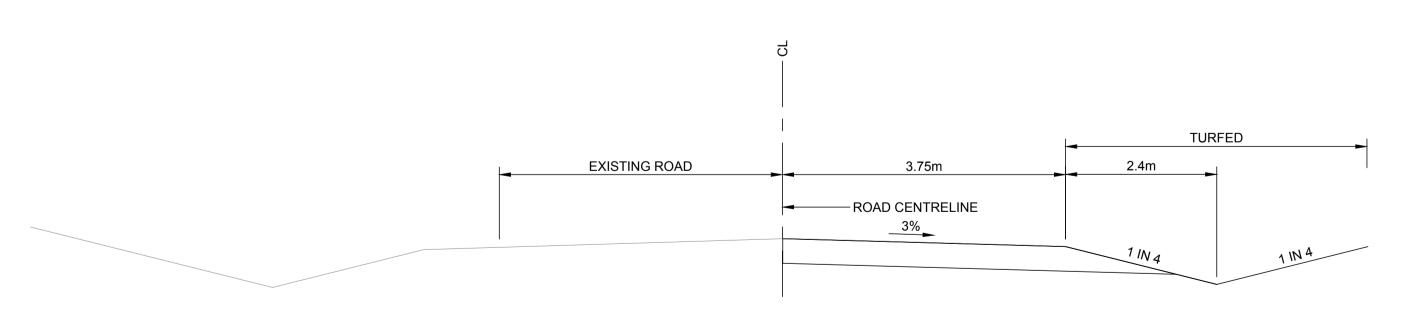




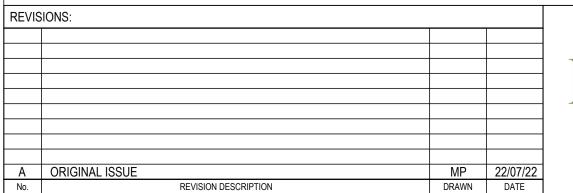


ROAD TYPICAL SECTION - ROAD 2
SCALE 1:50





ROAD TYPICAL SECTION - REDBANK CREEK ROAD SCALE 1:50





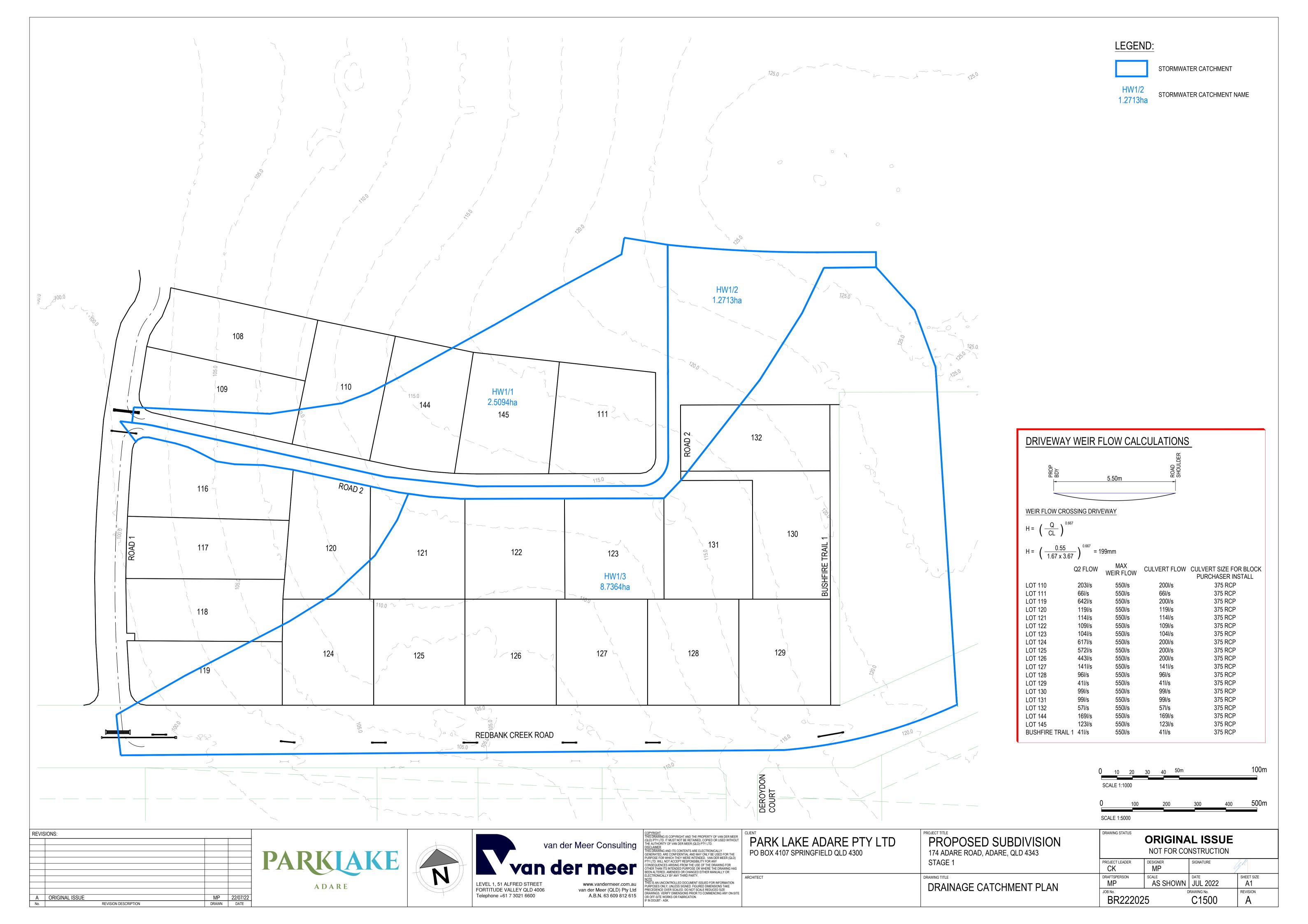


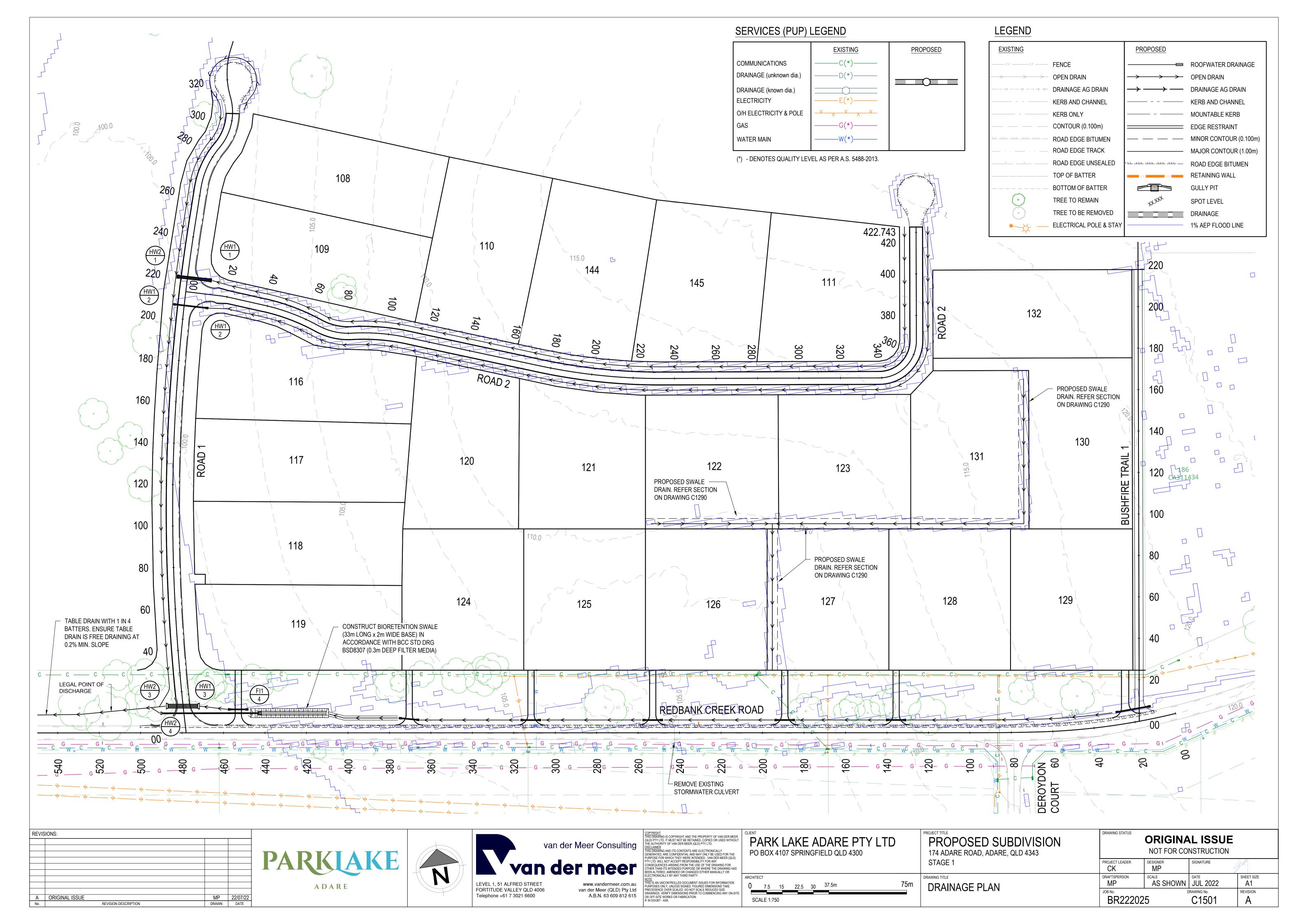
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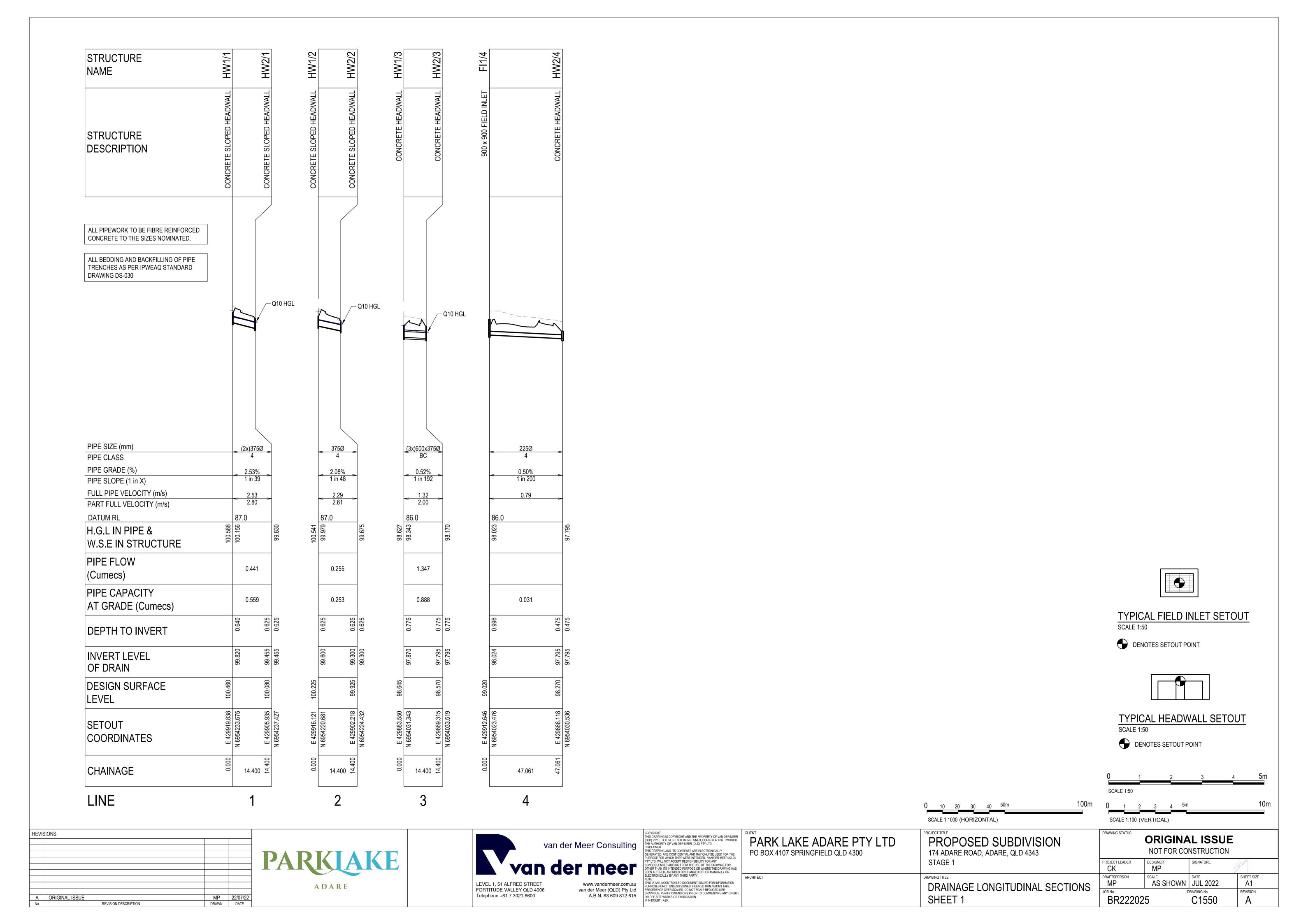
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ARCHITECT					
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SCALE	1:50				

PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGE 1
ROADWORKS DETAILS

DRAWING STATUS	0 1 11 0 11 11	AL ISSUE NSTRUCTION	
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	h l
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1
JOB No. BR22202	_	C1490	REVISION

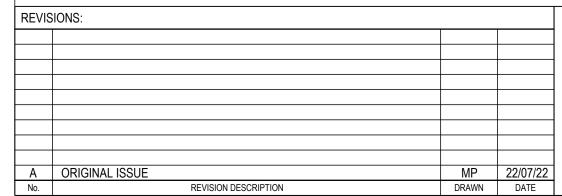






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giltoliato	CATCHMEN	CONTRIBU	DRAIN SEC		SUB-CATCH	OF COINC.	RAINFALLI	CO-EFFICIE RUNOFF	SUB-CATCH		EQUIVALEN	SUB-CATCH DISCHARGE	FLOW IN K		HALF ROAD	FLOW WID	FLOW DEP		FLOW DxV	ROAD GRAI	ROAD XFAL			INLET TYPE			BLOCKAGE	INLET CUR'	i	LOW IN C	BYPASS FLO	BYPASS STF	CRITICAL T	CONC.	KAINFALLI	TOTAL (C x	PEAK FLOW	PIPE FLOW	REACH LEN	PIPE GRADI		PIPE SIZE	FULL PIPE \	CAPACITY F	CAPACITY	TRAVEL VE		CHART(S) U	VELOCITY H	U/S HEAD I	COEPHICIEN	U/S HEAD I	W.S.E COEI	CHANGE IN	PIPE FRICTI	PIPE FRICTI	NORMAL D		NORMAL D	PIPE U/S I.I	PIPE D/S I.I	PIPE U/S H.	PIPE D/S H.	W.S.E	SURFACE L	FREEBOARI	<u> </u>	20110
					min	n m	m/h		ha	h	ha	L/s	L/s		L/s	m	m	n r	n^2/s	%	%								L	/s	L/s		mir	n mm	n/hr	ha	L/s	L/s	m	%	6	mm	m/s	L/s	m/s	s m/s	s		m		r	m		m	<u></u> %	m	m	n	m/s	m	m	m	m	m	m			
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STORMWATER CALCULATIONS TABLE (Q10)









PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 1

ORIGINAL ISSUE
NOT FOR CONSTRUCTION

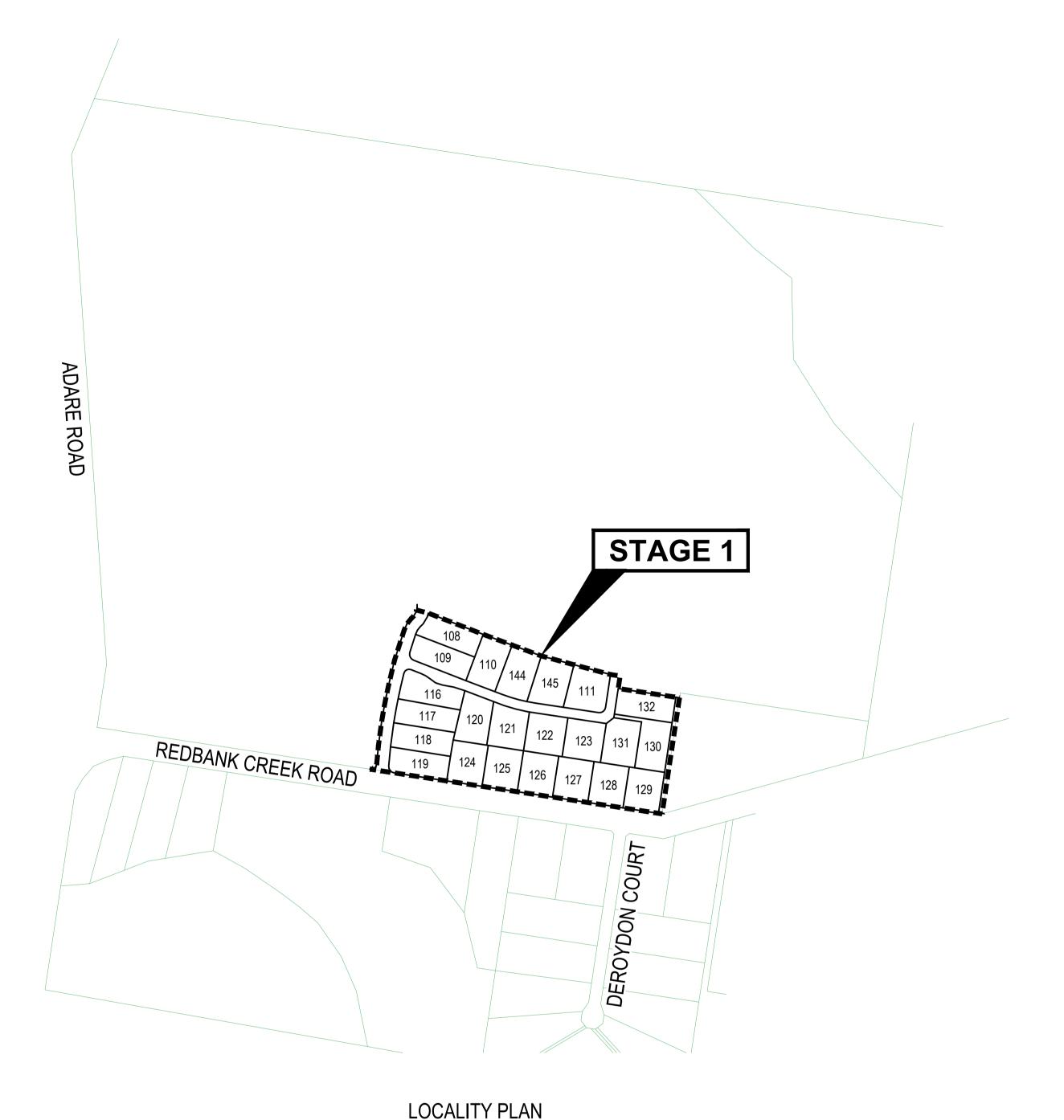
PROJECT LEADER CK MP

DRAFTSPERSON SCALE AS SHOWN JUL 2022 A1

JOB No. DRAWING No. REVISION A

DRAINAGE CALCU

DRAINAGE CALCULATIONS



ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

ALL WATER AND SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011.

CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION PHONE: 1300 362 128

SEQ CODE STANDARD DRAWING SCHEDULE

SOIL CLASSIFICATION

EMBEDMENT AND TRENCH FILL

THRUST BLOCK DETAILS

VALVE THRUST BLOCKS

IDENTIFICATION MARKERS

SEQ-WAT-1200-1

SEQ-WAT-1206-1

SEQ-WAT-1300-1,2

SCALE 1:5000 EXISTING AC MAIN TO BE REMOVED TO NEAREST COLLAR EITHER SIDE DN150 PE FULL FACE FLANGE OF LIVE CONNECTION. S.S. BACKING RING DN150 VALVE (FL / FL) EXISTING DN150 VALVE (FL / FL) DN225 AC DN150 APPROVED CONNECTOR DN150 SHORT PIPE (FL / SP) DN150 APPROVED CONNECTOR DN150 x 100 TEE (FL / FL / FL) 14.0 KN / DN150 SHORT PIPE (FL / SP) DN150 HYDRANT (FL / FL)

LIVE CONNECTION DETAIL '1'

LIVE WORKS CONNECTION 1

<u> </u>
REDBANK CREEK ROAD
CUT IN TO EXISTING MAIN
EXISTING DN225 AC
DATE
COMPLETED :

LIVE WORKS CONNECTIONS 2, 3 AND 4

STREET:	REDBANK CREEK ROAD
INSTALLATION :	TAPPING BAND
TYPE OF MAIN :	EXISTING DN225 AC
DATE COMMENCED :	DATE COMPLETED :
SIGNATURE :	

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- 2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- 4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- 5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- 6. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
- 7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
- 8. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS.
- 9. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO.SEQ-WAT-1410-1.
- 10. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- 11. WATER MAIN ROAD CROSSING AND VALVE PAVEMENT MARKERS TO BE INSTALLED AS PER SEQ-WAT-1300-1.

VEGETATION PROTECTION

- 1. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- 2. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE
 SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT
 RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- 4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- 3. IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL SHALL BE ADHERED TO.

REHABILITATION

- 1. PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.
- 3. ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION SHALL BE REHABILITATED. HEAVILY COMPACTED AREAS SHOULD BE RIPPED PRIOR TO TREATMENT
- 4. ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
- 5. ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.
- 6. TRENCH REINSTATEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH SEQ STANDARD REQUIREMENTS FOR EMBEDMENT AND TRENCH FILL. STANDARD DRAWINGS HAVE BEEN NOTED ON THIS PLAN.

VALVE MARKERS, HYDRANT MARKERS AND PAVEMENT MARKINGS ARE TO BE INSTALLED/REINSTATED IN ACCORDANCE WITH SEQ-WAT-1300-1

AS CONSTRUCTED

AS CONSTRUCTED DOCUMENTATION IS TO BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN THE SEQ D&C CODE INCLUSIVE OF FULL ADAC COMPLAINT SURVEY

LIVE WORKS CONNECTIONS 5, 6, 7, 8, 9 AND 10

STREET :	REDBANK CREEK ROAD
INSTALLATION:	FIRE HYDRANT
TYPE OF MAIN :	EXISTING DN225 AC
DATE COMMENCED:	DATE COMPLETED :
SIGNATURE:	

REVISIONS:

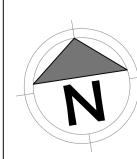
A ORIGINAL ISSUE

No. REVISION DESCRIPTION

DRAWN

DATE







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PO BOX 4107 SERINGITILED QLD 4300

RCHITECT

0 100 200 300 400 500m

SCALE 1:5000

PROPOSED SUBDIVISION

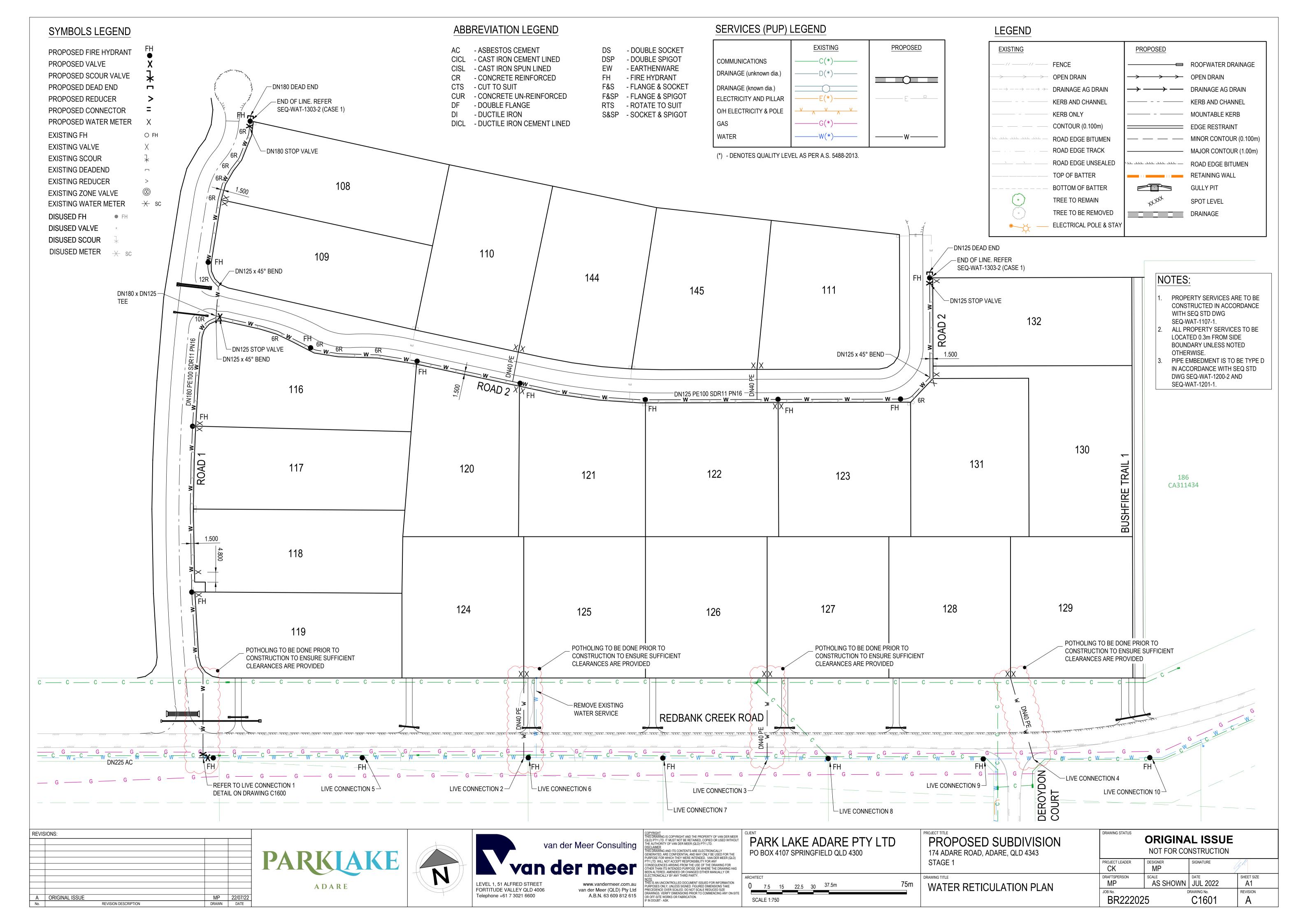
174 ADARE ROAD, ADARE, QLD 4343

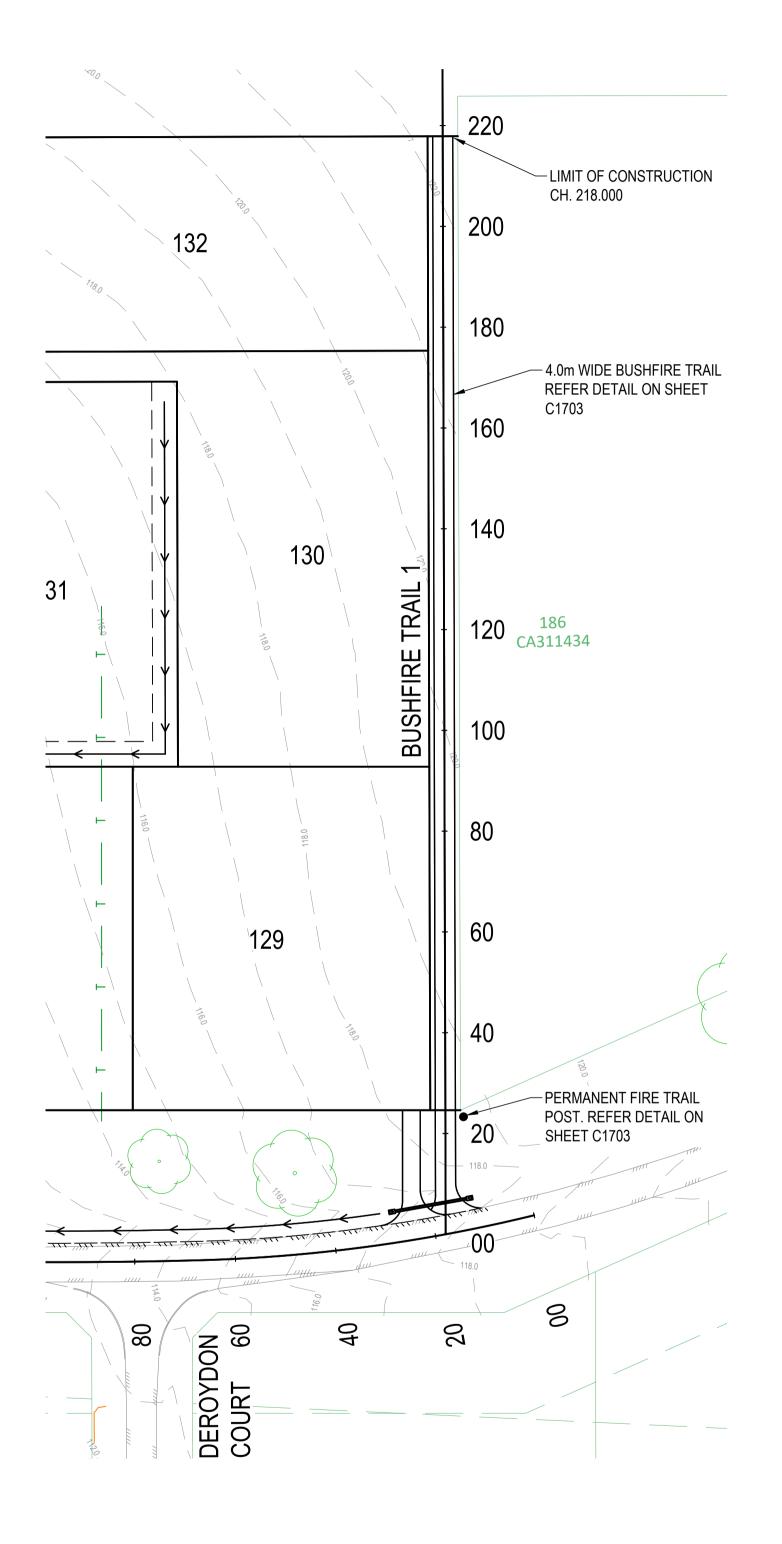
STAGE 1

ORIGINAL ISSUE
NOT FOR CONSTRUCTION

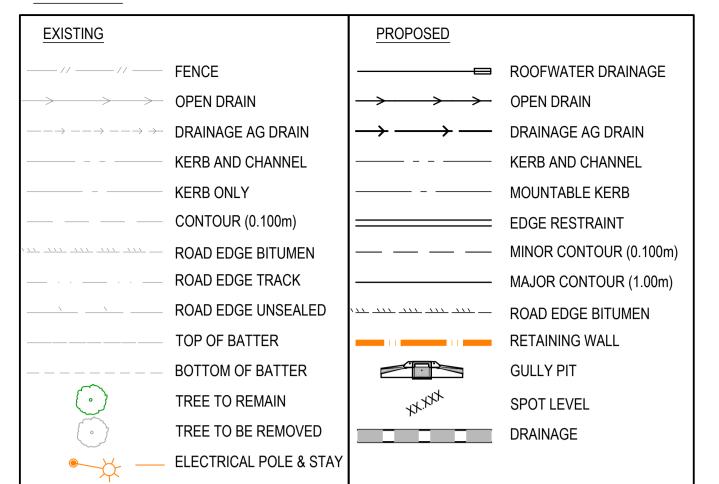
PROJECT LEADER CK MP

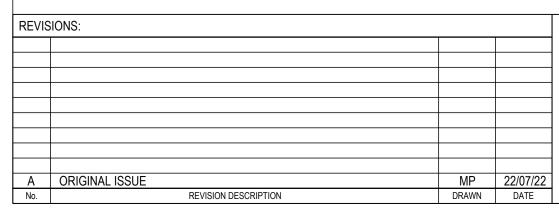
DRAFTSPERSON SCALE DATE SHEET SIZE



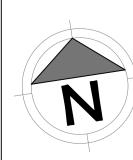


LEGEND













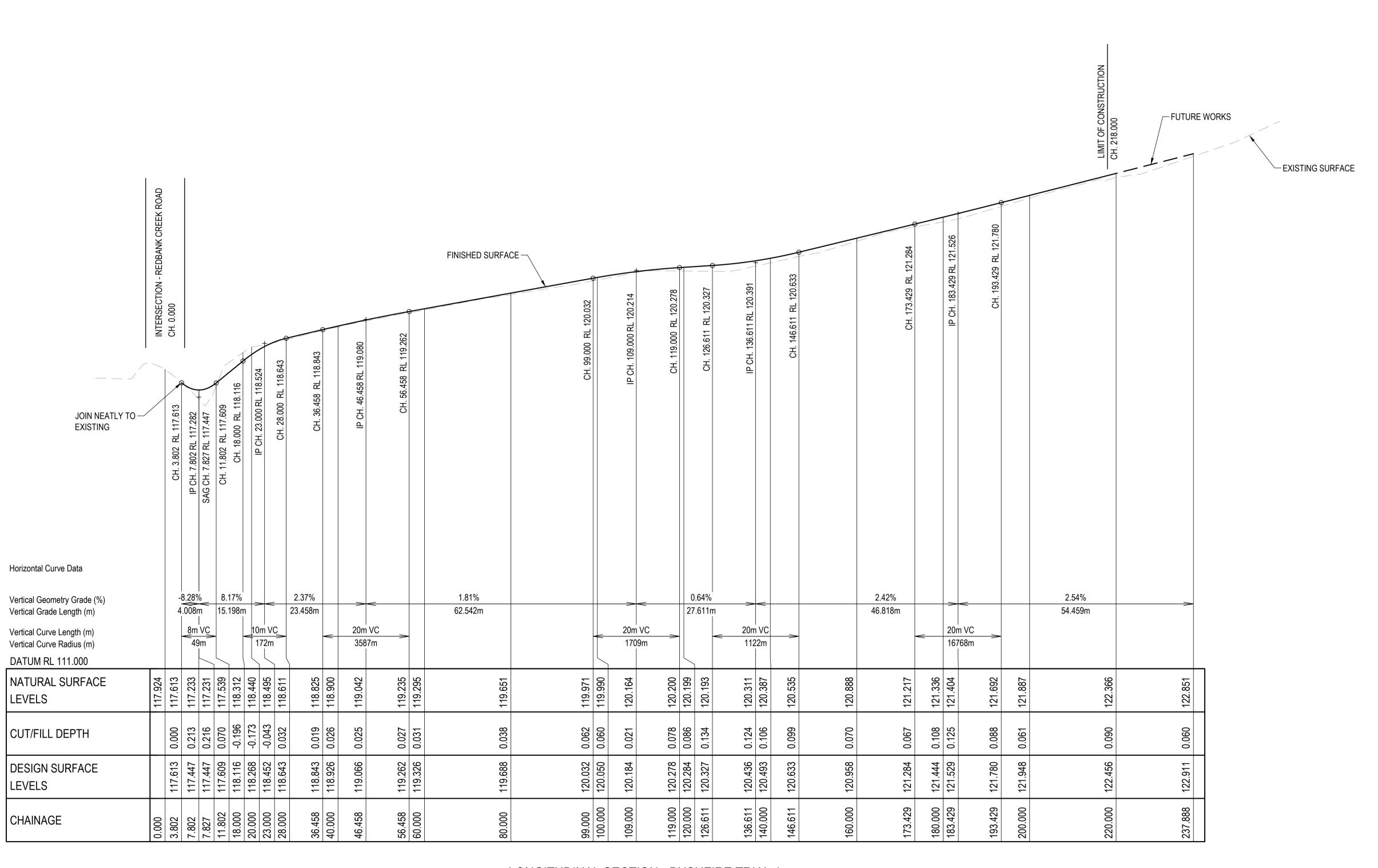
PARK LAKE ADARE PTY LTD PO BOX 4107 SPRINGFIELD QLD 4300
ARCHITECT

SCALE 1:500

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 1
DRAWING TITLE

BUSHFIRE TRAIL PLAN

DRAWING STATUS		AL ISSUE NSTRUCTION	
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	4R
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1
JOB No. BR22202	_	C1700	REVISION



LONGITUDINAL SECTION - BUSHFIRE TRIAL 1
HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:50

van der Meer Consulting

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van der Meer (QLD) Pty Ltd
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PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 1

DRAWING TITLE
BUSHFIRE TRAIL

LONGITUDINAL SECTION

SCALE 1:500 (HORIZONTAL)

50m

30 40

ORIGINAL ISSUE
NOT FOR CONSTRUCTION

PROJECT LEADER CK MP

DRAFTSPERSON SCALE AS SHOWN JUL 2022 A1

C1701

BR222025

REVISION

REVISIONS:

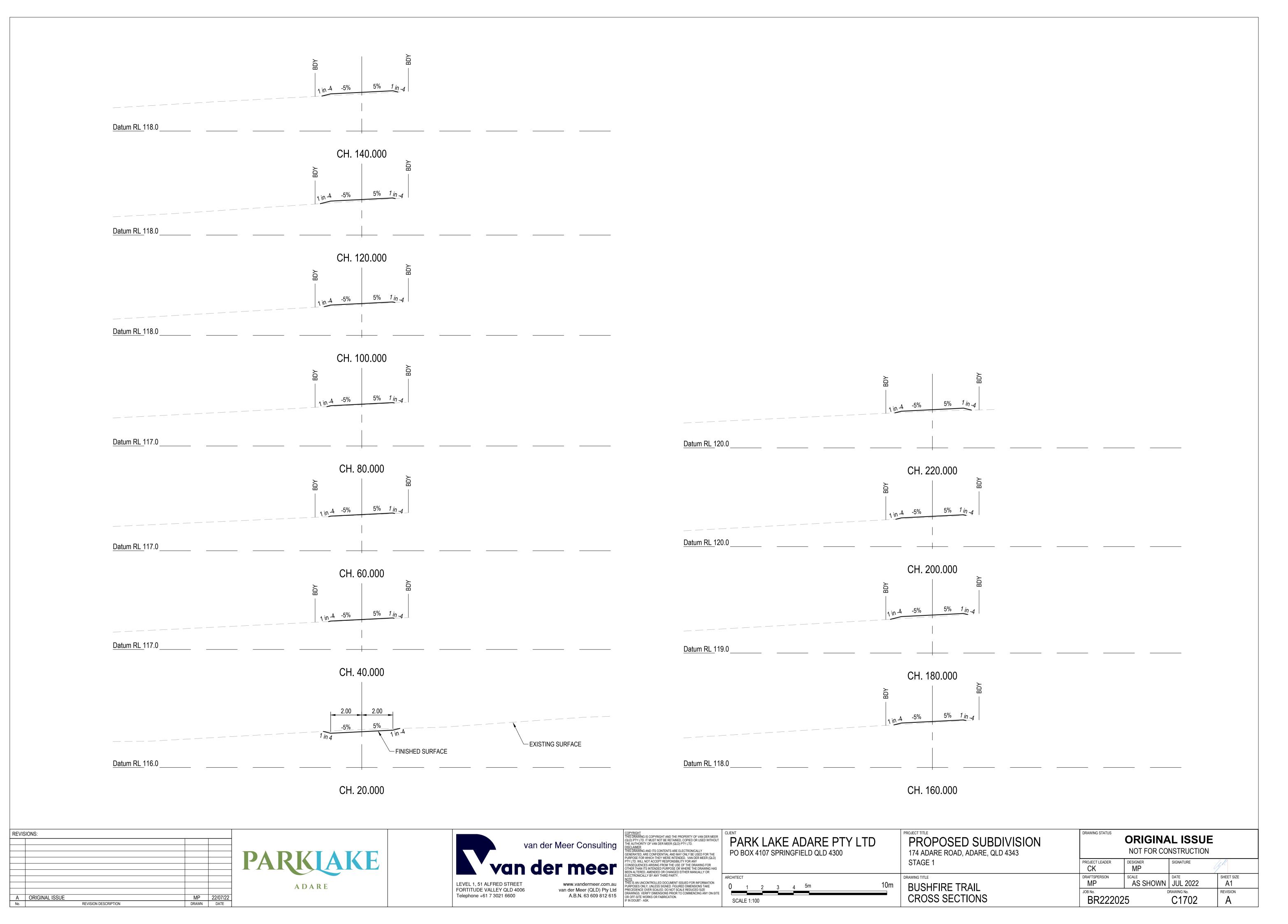
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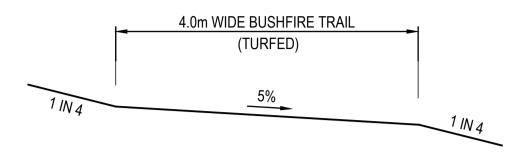
No. REVISION DESCRIPTION

MP 22/07/22

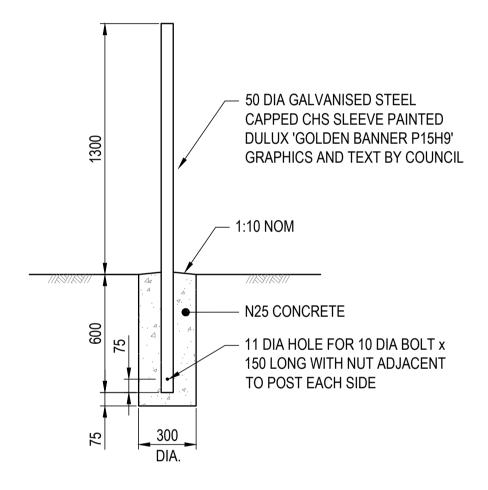
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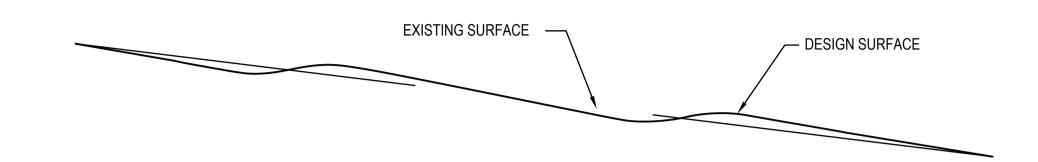
TYPICAL SECTION - BUSHFIRE TRAIL SCALE 1:50



PERMANENT FIRE TRAIL POST DETAIL

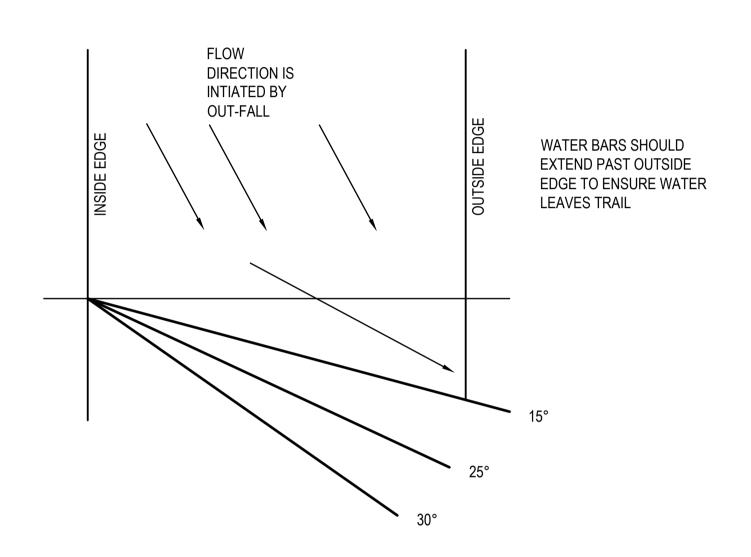
FIRE TRAIL NOTES

- 1. FIRE TRAIL TO BE IN ACCORDANCE WITH THE APPROVED REPORT "BUSHFIRE RISK ASSESSMENT & MANAGEMENT PLAN" PREPARED BY BUSHLAND PROTECTION SYSTEMS DATED 20TH APRIL 2022.
- 2. PROVIDE A FIRE TRAIL NUMBER SIGN AT EVERY ENTRANCE TO A FIRE TRAIL.
- 3. COUNCIL WILL ALLOCATE TRAIL NUMBERS AND INSTALL NUMBERING ON POST.



FORMATION OF WATERBAR

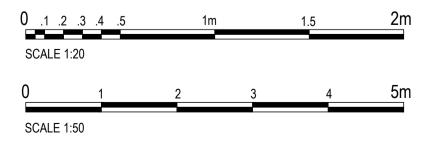
NOT TO SCALE

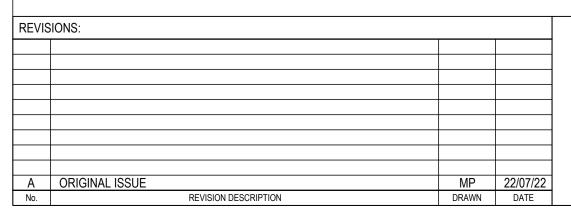


WATER BAR ORIENTATION ON THE TRAIL

NOT TO SCALE

		TAE	BLE A		
ROAD GRADE	WATER BAR ORIENTATION	SOIL CLASS A WATER BAR SPACING	SOIL CLASS B WATER BAR SPACING	SOIL CLASS C WATER BAR SPACING	WATER BAR HEIGHT
UP TO 10%	35°	15 - 20m	10 - 12m (apart)	7 - 10m (apart)	0.3 - 0.4m
11% TO 15%	25°	8 - 10m	7 - 10m	UNDESIRABLE	0.4 - 0.6m
15% TO 20%	15°	5 - 8m	CONCRETE	CONCRETE	CONCRETE & OUT-FALL
21% TO 25%	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE & OUT-FALL
26% TO 30%	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE & OUT-FALL
ABOVE 30%	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT









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PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 1

BUSHFIRE TRAIL DETAILS

DRAWING STATUS	ORIGINAL ISSUE NOT FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	4R	
DRAFTSPERSON MP	AS SHOWN	JUL 2022	SHEET SIZE A1	
JOB No. BR22202	=	C1703	REVISION	