



Lockyer Valley Regional Council  
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## DECISION NOTICE

### *Planning Act 2016*

Application ID: OW2024/0019  
Enquiries: Scott Hambleton  
Contact: 5462 0618

29 July 2024

Park Lake Adare Pty Ltd TTE  
Park Lake Adare Unit Trust  
C/- Van Der Meer Consulting  
Level 3, 51 Alfred Street  
FORTITUDE VALLEY QLD 4006

Attention: Chris Liao

Dear Chris

### **DEVELOPMENT PERMIT FOR OPERATIONAL WORKS FOR ROADWORK, STORMWATER AND EARTHWORKS (RL2022/0017.03 – STAGES 4 AND 5)**

I wish to advise that on 26 July 2024, the application described below was approved subject to conditions.

#### **Application Details**

Description of Development: Development Permit for Operational Works for Roadwork, Stormwater and Earthworks (RL2022/0017.03 – Stages 4 and 5)  
Street Address: 63 Redbank Creek Road, Adare  
Real Property Description: L900 SP328401

#### **Conditions of Approval**

The conditions of approval are attached.

Unless otherwise specified, all assessment manager conditions of this development approval relating to the provision of infrastructure are non-trunk infrastructure conditions for Chapter 4 of the *Planning Act 2016*.

#### **Currency Period**

The currency period for this Development Permit is two (2) years starting the day this Development Permit takes effect (refer to Section 85 of the *Planning Act 2016*). The Approval will lapse unless the works are substantially started within the currency period.

## Representations and Rights of Appeal

You are entitled to appeal this decision or make representations in relation to the conditions of approval.

Within your appeal period (i.e. 20 business days after the Decision Notice is given), you may suspend your appeal period and make written representations to Council about the conditions of approval. If Council agrees with any of the representations, a Negotiated Decision Notice will be given. Only one Negotiated Decision Notice may be given. If a Negotiated Decision Notice is given, your 20 business day appeal period will commence again.

The rights of applicants to appeal to a tribunal or the Planning and Environment Court against decisions about development applications are set out in chapter 6, part 1 of the *Planning Act 2016*. Attached is an extract from the *Planning Act 2016* which details your appeal rights.

## Commencement of Approval

This approval takes effect in accordance with section 71 of the *Planning Act 2016*.

Yours faithfully

Michael Dargusch  
**COORDINATOR DEVELOPMENT ASSESSMENT**

Attach: Schedule 1 – Lockyer Valley Regional Council’s conditions of approval and advisory notes  
Approved Plans/Documents  
Appeal Rights (extracts from the *Planning Act 2016*)

CC: Urban Utilities  
[Development@urbanutilities.com.au](mailto:Development@urbanutilities.com.au)



## Schedule 1 – Lockyer Valley Regional Council’s Conditions of Approval and Advisory Notes

**APPROVED PLANS**

The following plans prepared by van der Meer Consulting are Approved without amendments:

Plan No.	Rev.	Plan Name	Date
C4000	A	COVER SHEET	15/4/24
C4001	B	STANDARD NOTES	26/6/24
C4002	A	SITE PLAN – SHEET 1	15/4/24
C4003	A	SITE PLAN – SHEET 2	15/4/24
C4004	A	SITE PLAN – SHEET 3	15/4/24
C4100	B	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1	26/6/24
C4101	B	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2	26/6/24
C4102	D	EROSION AND SEDIMENT CONTROL PLAN - SHEET 3	26/6/24
C4190	A	EROSION AND SEDIMENT CONTROL DETAILS	15/4/24
C4191	A	EROSION AND SEDIMENT CONTROL NOTES	15/4/24
C4200	C	BULK EARTHWORKS SECTION SHEET 1	26/6/24
C4201	B	BULK EARTHWORKS SECTION SHEET 2	26/6/24
C4202	B	BULK EARTHWORKS SECTION SHEET 3	26/6/24
C4290	C	BULK EARTHWORKS DETAILS	10/7/24
C4300	A	PAVEMENT PLAN - SHEET 1	15/4/24
C4301	A	PAVEMENT PLAN - SHEET 2	15/4/24
C4302	C	PAVEMENT PLAN - SHEET 3	06/6/24
C4400	A	ROADWORKS PLAN - SHEET 1	15/4/24
C4401	A	ROADWORKS PLAN - SHEET 2	15/4/24
C4402	C	ROADWORKS PLAN - SHEET 3	06/6/24
C4430	A	SIGNS AND PAVEMENT MARKING PLAN - SHEET 1	15/4/24
C4431	A	SIGNS AND PAVEMENT MARKING PLAN - SHEET 2	15/4/24
C4432	A	SIGNS AND PAVEMENT MARKING PLAN - SHEET 3	15/4/24
C4450	A	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 1	15/4/24
C4451	A	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 2	15/4/24
C4452	A	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 3	15/4/24
C4453	A	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 4	15/4/24
C4454	A	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 1	15/4/24
C4455	A	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 2	15/4/24
C4456	A	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 3	15/4/24
C4457	A	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 4	15/4/24
C4458	A	ROAD LONGITUDINAL SECTION - BURTON CRESCENT - SHEET 1	15/4/24
C4459	A	ROAD LONGITUDINAL SECTION - BURTON CRESCENT - SHEET 2	15/4/24
C4460	C	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 1	26/6/24

C4461	C	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 2	26/6/24
C4462	B	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 3	26/6/24
C4480	C	INTERSECTION DETAILS	26/6/24
C4490	B	ROADWORKS DETAILS	26/6/24
C4500	C	DRAINAGE CATCHMENT PLAN	06/6/24
C4501	B	DRAINAGE PLAN - SHEET 1	09/5/24
C4502	B	DRAINAGE PLAN - SHEET 2	09/5/24
C4503	D	DRAINAGE PLAN - SHEET 3	06/6/24
C4510	A	DRAINAGE BIO RETENTION BASIN DETAILS	15/4/24
C4550	B	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1	09/5/24
C4551	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2	15/4/24
C4560	A	DRAINAGE CALCULATIONS	15/4/24
C4700	A	BUSHFIRE TRAIL 3 AND 4 PLAN	15/4/24
C4701	A	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 1	15/4/24
C4702	A	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 2	15/4/24
C4703	A	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 3	15/4/24
C4704	A	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 1	15/4/24
C4705	A	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 2	15/4/24
C4706	A	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 3	15/4/24
C4707	A	BUSHFIRE TRAIL 4 LONGITUDINAL AND CROSS SECTIONS	15/4/24
C4708	A	BUSHFIRE TRAIL 5 AND 6 PLAN	15/4/24
C4709	A	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 1	15/4/24
C4710	A	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 2	15/4/24
C4711	A	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 3	15/4/24
C4712	A	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 1	15/4/24
C4713	A	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 2	15/4/24
C4714	A	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 3	15/4/24
C4715	A	BUSHFIRE TRAIL 6 LONGITUDINAL AND CROSS SECTIONS	15/4/24
C4716	A	BUSHFIRE TRAIL DETAILS	15/4/24

## ASSESSMENT MANAGER CONDITIONS

No.	Condition	Timing
<b>GENERAL</b>		
1.	Undertake all approved works in accordance with the approved plans as listed within this decision notice and any works required by conditions of this approval at no cost to Council.	At all times.
2.	<p>A Works on a Road Reserve Permit must be obtained for any works involving closing of Council roads or working on or adjacent to existing roads or road reserves.</p> <p><b>Advice Note:</b> Refer to Council's <a href="#">website</a> for information about how to apply.</p>	Prior to Pre-Start Meeting.
3.	<p>Submit to Council for approval, test results for subgrade and final pavement designs certified by a RPEQ prior to construction of road pavements. Pavement Design to be in accordance with Austroads Guide to Pavement Technology Part 2: Pavement Structural Design or the Department of Transport and Main Roads design standards after stripping of topsoil and assessment of soaked sub-grade CBR values and using an ESA's or design traffic based on traffic engineering predictions.</p> <p><b>Advice Notes:</b></p> <ul style="list-style-type: none"> <li>• A minimum <b>five (5) business days'</b> written notice must be provided to Council requesting approval for final pavement designs.</li> <li>• Provide soil test results from the source quarry taken within two weeks of the pavement design date.</li> </ul>	Prior to commencement of road construction.
4.	Provide pavement thickness of no less than 300 mm for including a minimum of 30mm of AC surfacing. The total pavement thickness as determined from the design charts is not to include the thickness of AC surfacing which is deemed to be a wearing surface only unless the AC thickness is greater than 75mm".	At all times.
5.	Install any new or reinstated signage in accordance with the IPWEAQ standard drawing no. RS 131. All new signage shall be coated with Class 1 retro-reflective material in accordance with AS1743: Road signs – Specifications.	At all times.
<b>BONDS AND SECURITIES</b>		
6.	<p><b>EROSION AND SEDIMENT CONTROL BOND</b></p> <p>Submit the following to Council:</p> <ol style="list-style-type: none"> <li>a. Priced Bill of Quantities prepared and certified by a Registered Professional Engineer Queensland (RPEQ) for the earthworks and stabilisation works.</li> <li>b. Erosion and Sediment Control (ESC) Bond equivalent to at least 3% of the value of the earthworks and stabilisation works or \$10,000 (whichever is greater). The ESC Bond is a security for the stabilisation of exposed areas where there are earthworks and the performance of restoration works, and for achieving grass coverage at the completion of works.</li> </ol>	Prior to a pre-start meeting.

	<b>Advice Note:</b> The Erosion and Sediment Control (ESC) Bond will be released after the project is accepted off-maintenance.	
7.	<p><b>MAINTENANCE BOND – CIVIL WORKS</b></p> <p>Submit the following to Council:</p> <ol style="list-style-type: none"> <li>Priced Bill of Quantities prepared and certified by a Registered Professional Engineer Queensland (RPEQ) for all development works which are to be contributed to Council.</li> <li>Maintenance Bond – Civil Works equivalent to at least 10% of the value of the development works which are to be contributed to Council or \$5,000 (whichever is greater). The Maintenance Bond – Civil Works is a security to ensure the works are maintained during the maintenance period.</li> </ol> <p><b>Advice Note:</b> The Maintenance Bond – Civil Works will be released after the project is accepted off-maintenance.</p>	Prior to acceptance of works On-Maintenance.
<b>PRE-START MEETING REQUIREMENTS</b>		
8.	<p>Submit a written request for Council’s delegated officers to attend a Pre-Start Meeting for the proposed works with the Engineer (RPEQ) and Contractor. The written request must include at a minimum the following details:</p> <ol style="list-style-type: none"> <li>The Engineer (RPEQ), the Principal Contractor, including the name and contact details during and outside of construction hours.</li> <li>The supervising engineer’s office and after hours contact details.</li> <li>Date of commencement of works and expected duration (programme of works).</li> <li>Proposed haul route during construction works.</li> <li>Pre- construction dilapidation report on existing Council infrastructure for identified local section of the haul route during construction works.</li> <li>CCTV footage and an inspection report for underground stormwater drainage works along with a letter from a suitably qualified and experienced RPEQ stating that CCTV inspection report and video had been reviewed and identifying any issues.</li> <li>Proposed access locations for trucks and other heavy machinery during construction phase.</li> <li>Works on a Road Reserve Permit for traffic management and any lane/footpath closures during construction (if required).</li> <li>Erosion and sediment control plans.</li> <li>A set of “Issued for Construction” drawings, amended if required by the conditions of this approval.</li> <li>Evidence of possession of site by contractor.</li> <li>Public Liability Insurance to a limit of \$20,000,000 with a notation with the Local Government as an Insured Party that is current/valid for the full duration of works.</li> <li>Workers’ Compensation Insurance.</li> <li>Evidence of Bond Payment(s) as per relevant conditions.</li> </ol> <p>The Pre-Start Meeting date and time will be confirmed by Council’s delegated officer.</p>	Prior to commencement of works.
<b>DEVELOPMENT WORKS</b>		
9.	All works associated with this approval must occur within the following times, unless otherwise approved in writing by the assessment manager:	At all times.

	Monday to Saturday (inclusive) - 6:30am to 6:30pm Sunday and Public Holidays - No work permitted	
10.	Carry out works to ensure compliance with Work Health and Safety legislative requirements.	At all times.
11.	Ensure all work sites are maintained in a clean, orderly state at all times.	At all times.
12.	Manage all waste in accordance with the relevant legislation and regulations and dispose of regulated waste at a licensed facility by a licensed regulated waste disposal contractor.	At all times.
13.	All services crossings for existing or completed new roads must be carried out only using under boring technique and open cut crossing will not be permitted.	At all times.
14.	Ensure the re-location and protection of any Council and public utility services infrastructure and assets that may be impacted on during construction of the development.	At all times.
15.	Repair all damages incurred to Council and public utility services infrastructure and assets to relevant authority's standards as a result of the proposed development, immediately should hazards exist for public health and safety or vehicular safety. Otherwise, repair all damage immediately upon completion of works associated with the development.	At all times.
16.	Ensure that development works on the subject land do not lead to ponding of stormwater or cause actionable nuisance to adjoining properties.	At all times.
17.	Protect nearby property owners from dust pollution arising from construction and maintenance of the works required by this approval in accordance with requirements of the <i>Environmental Protection Act 1994</i> .	At all times.
18.	In the event that bona fide complaints are received by Council in relation to dust emissions from the site or Council notices that a non-compliance exists, dust mitigation measures must be undertaken as directed by the Council.	At all times.
19.	Provide a minimum 100mm capping layer of good quality, non-dispersive soil on all areas disturbed during the earthworks.	Prior to acceptance on-maintenance.
20.	<b>VERGES</b> All verges are to be: <ul style="list-style-type: none"> <li>a. Topsoiled to a depth of at least 100mm, using topsoil free of stones and deleterious matter, and lightly compacted.</li> <li>b. Provided with a continuous turf strip behind all new kerb and channel and any footpaths.</li> <li>c. Fully turfed or grassed.</li> </ul> <p><b>Advice Note:</b> Specifications are detailed in the <i>Lockyer Valley Planning Scheme</i>, Planning Scheme Policy 6 Infrastructure Design.</p>	Prior to acceptance of works On-Maintenance.
21.	Disturbed areas on newly created lots and balance areas (excluding verges) must be seeded to achieve a minimum of 80% grass coverage, prior to on maintenance.	Prior to acceptance on-maintenance.
22.	Install signage displaying the business and afterhours telephone number/s of the applicant, supervising engineer and Principal Contractor as well as the operational works application number.	At all times.

23.	Ensure that supervision of all construction works is carried out by a suitably qualified and experienced Engineer (RPEQ).	At all times.
24.	Allow Council to enter a work site to which this approval relates and undertake testing or analysis of any part of the construction, and Council is not liable for the rectification of or compensation for any damage caused in the testing or analysis process. Should work be found to be not constructed to specification or of poor quality, rectification works must be undertaken by the Principal Contractor.	At all times.
<b>EROSION AND SEDIMENT CONTROL</b>		
25.	Implement erosion and sediment control generally in accordance with the approved drawings and the Best Practice Erosion and Sediment Control guidelines by the International Erosion Control Association Australasia. Where the drawings and the guidelines are conflicting, the requirements of the guidelines take precedence.	At all times.
26.	The supervising engineer must undertake inspections of the erosion and sediment control devices after all significant rain events. Where necessary, the devices will be modified, repaired or improved to prevent any erosion or sediment discharge from the development in future rain events.	At all times.
27.	Implement and maintain measures to prevent the tracking of sediment to and from the site onto the adjoining street network for the duration of the construction period. Any sediment discharging from the site to the road network must be cleaned immediately at the expense of the developer.	At all times during construction.
<b>STOCKPILING</b>		
28.	All temporary stockpiles of erodible material must be: <ul style="list-style-type: none"> <li>a. Protected from wind, rain, concentrated surface flow, and excessive up-slope stormwater surface flows; and</li> <li>b. Located up-slope of an appropriate sediment control system; and</li> <li>c. Provided with an appropriate protective cover (synthetic or organic) if the materials are likely to be stockpiled for more than four (4) weeks; or</li> <li>d. Provided with an appropriate protective cover (synthetic or organic) if the materials are likely to be stockpiled for more than ten (10) days during months of high erosion risk; or</li> <li>e. Provided with an appropriate protective cover (synthetic or organic) if the materials are likely to be stockpiled for more than five (5) days during months of extreme erosion risk.</li> </ul>	At all times.
<b>IMPORT OR EXPORT OF MATERIALS</b>		
29.	This approval does not extend to any material proposed to be imported to or exported from the site other than: <ul style="list-style-type: none"> <li>a. from or to site(s) that have a current Development Approval enabling them to export/accept any material; or</li> <li>b. the material is being exported to and accepted at a licensed Council refuse facility.</li> </ul>	At all times.
30.	Submit to Council, the following for approval in the event it is proposed to import material to or export material from the site, prior to commencement of the work:	Prior to commencement any works.



	<ul style="list-style-type: none"> <li>a. details of the location of any material to be sourced for fill including the volume of fill to be moved from any particular source site;</li> <li>b. details of the final location for any material to be exported from the site from excavations including the volume to be moved to any particular site;</li> <li>c. the proposed haulage route(s) and truck sizes for carting of the material; and</li> <li>d. Council approval will be required for all roads on the haul route below Collector standard.</li> </ul> <p>Note: Further Development Approvals may be required for sites (e.g. sites impacted by flooding and overland flows) proposed to import material from or export material to, prior to commencement of such work.</p>	
<b>VEGETATION CLEARING</b>		
31.	<p>Any vegetation clearing as a result of this approval (e.g. along new boundary fence lines) is to comply with the following:</p> <ul style="list-style-type: none"> <li>A. Ensure that an accredited fauna spotter/wildlife consultant* is present to check all potential habitat prior to vegetation removal or earthworks. The accredited fauna spotter/wildlife consultant: <ul style="list-style-type: none"> <li>a. inspect vegetation approved for removal (or any dams to be removed or dewatered) and advise contractors when it is appropriate to commence works;</li> <li>b. clearly mark (flag) vegetation found to contain fauna or fauna habitat (such as tree hollows, arboreal termite mounds, stick nests or possum drays with flagging tape), and visually and verbally communicate this information to the tree feller to ensure flagged trees are not felled until authorised by the fauna spotter;</li> <li>c. Where native vertebrate animals are found, clearing must only continue in coordination with a fauna spotter. All native vertebrate animals located within, on and amongst vegetation or areas of vegetation approved for clearing, are only to be managed under the guidance of the fauna spotter; and</li> <li>d. Keep and maintain accurate records of all animal captures, incidents and disposals for the site and a report prepared for Council and other relevant authorities within one month of completion of the project.</li> </ul> </li> </ul> <p>*An accredited Fauna Spotter/ Wildlife Consultant is a person or company holding a current Rehabilitation Permit – Spotter Catcher issued by the Department of Environment and Science under the <i>Nature Conservation (Animals) Regulation 2020</i>.</p> <ul style="list-style-type: none"> <li>B. Any clearing of koala habitat trees must ensure the clearing is carried out in a way the complies with the sequential clearing conditions in Part 3 section 10 of the Nature Conservation (Koala) Conservation Plan 2017.</li> </ul> <p>Note: Koala Habitat Trees are defined as:</p> <ul style="list-style-type: none"> <li>a. a tree of the <i>Corymbia</i>, <i>Melaleuca</i>, <i>Lophostemon</i> or <i>Eucalyptus</i> genera that is edible by koalas; or</li> </ul>	At all times.

	<ul style="list-style-type: none"> <li>b. a tree of a type typically used by koalas for shelter, including, for example, a tree of the Angophora genus.</li> <li>C. Limit the felling of habitat and hollow bearing trees to the following methods: <ul style="list-style-type: none"> <li>a. segmental removal of the tree, with hollow-bearing limbs being checked by the wildlife spotter and cleared of fauna using a cherry picker;</li> <li>b. segmental removal of the tree, with hollow-bearing limbs plugged and lowered to the ground for inspection by the wildlife spotter;</li> <li>c. use of an excavator with vertical grab to lower the main trunk; or</li> <li>d. a combination of the above methods.</li> </ul> </li> <li>D. Preserve valuable habitat features such as large fallen logs, log piles, rock piles or outcrops wherever practicable through the translocation and re-establishment in coordination with the wildlife spotter.</li> <li>E. Ensure compliance with AS 4970 - 2009 Protection of trees on development sites, including but not limited to the implementation of a 'Tree Protection Zone' where trees are to be retained onsite and undertake the following: <ul style="list-style-type: none"> <li>a. install protective fencing to prevent any damage to areas not in the approved vegetation clearing area in general accordance with Section 4.3 of AS 4970 - 2009;</li> <li>b. provide signs identifying the 'Tree Protection Zone' on exclusion fencing that are clearly visible from all areas within the development site within 20 metres of the exclusion fencing; and</li> <li>c. ensure all trees to be retained within allotments are protected from harm during works on site. Ensure activities such as traffic, stockpiling and compaction are excluded from areas of retained vegetation particularly within the tree protection zones of retained trees.</li> </ul> </li> <li>F. Ensure vegetation and rubble piles are not left to serve as a refuge for displaced or roaming wildlife through the implementation of the following measures: <ul style="list-style-type: none"> <li>a. immediately (within 12 hours) remove or destroy such materials; or</li> <li>b. ensure old (&gt;12 hours) piles of felled vegetation are treated as potential wildlife habitat and inspected by a wildlife spotter catcher prior to removal or destruction</li> </ul> </li> <li>G. Ensure all vegetation cleared as a result of this development approval and requiring disposal is disposed of: <ul style="list-style-type: none"> <li>a. on the premises for landscaping and sediment and erosion control purposes (for example as mulch); and/or</li> <li>b. at a waste disposal facility operated by Council provided that the waste is delivered to the waste disposal facility in a manner and form which allows it to be mulched at the facility; and/or</li> <li>c. in such other environmentally responsible manner as meets with the written approval of the Council; and</li> <li>d. ensure any vegetation cleared as a result of this development approval is not burnt or incinerated except for the purpose of domestic heating inside a dwelling on the subject site.</li> </ul> </li> </ul>	
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<b>MANDATORY COUNCIL INSPECTIONS</b>		
32.	<p>The following inspections must be attended by Council's delegated officer, the supervising engineer (a suitably qualified RPEQ) and the Principal Contractor:</p> <ol style="list-style-type: none"> <li>Prestart meeting;</li> <li>Prior to backfilling of any stormwater drainage works;</li> <li>At the time of spreading topsoil;</li> <li>Structural steel inspection prior to pouring of any structural concrete;</li> <li>Prior to back filling road crossings (during construction of new roads, refer to condition on 'under boring' otherwise);</li> <li>Following preparation and compaction of road sub-grade;</li> <li>Following placement and compaction of each road pavement layer and prior to laying of the next pavement layer or surfacing layer; and</li> <li>Finished pavement surface prior to any bitumen primer-seal or prime or asphalt surfacing.</li> </ol> <p>A minimum two (2) business days' written notice must be provided to Council requesting attendance for above inspections.</p> <ol style="list-style-type: none"> <li>On Maintenance inspection (refer to on-maintenance requirements);</li> <li>Off Maintenance inspection (further to a minimum 12 months defects liability period);</li> </ol> <p>A minimum five (5) business days' written notice must be provided to Council requesting attendance for maintenance inspections.</p>	At all times.
<b>ON MAINTENANCE REQUIREMENTS</b>		
33.	<p>Ensure that following works will be completed prior to On-maintenance inspection:</p> <ol style="list-style-type: none"> <li>Stabilise adequately all unstable or disturbed soil surfaces against erosion (minimum 80% stabilised).</li> <li>Cover all dispersible soils exposed during soil disturbing activities with a minimum 100mm layer of non-dispersible soil before being covered with vegetation, mulch, erosion control blankets or infrastructure.</li> <li>All approved landscaping works have been completed.</li> <li>Install Kerb markers to identify the location of crossroad services e.g. water, electricity, telecommunication, gas etc.</li> </ol>	Prior to request for on-maintenance.
34.	<p>Submit the following to Council prior to the on-maintenance inspection:</p> <ol style="list-style-type: none"> <li>Evidence of Bond Payment(s) as per relevant conditions.</li> <li>Completed Inspection Check Lists (ITP) and all inspection and test data in its entirety;</li> <li>Originals of relevant test results;</li> <li>Certification from a suitably qualified Registered Professional Engineer Queensland (RPEQ) stating that works have been undertaken in accordance with the approved plans, approval conditions and any agreed variations;</li> <li>CCTV footage and an inspection report for underground stormwater drainage works along with a letter from a suitably qualified and experienced RPEQ stating that CCTV inspection report and video had been reviewed and rectification works were successful and satisfactory.</li> </ol>	Prior to request for on-maintenance.

	<p>f. Geotechnical and structural certificates (where applicable);</p> <p>g. Payment of any outstanding Fees and Permits;</p> <p>h. Any other relevant document that may be required by Council;</p> <p>i. Certification from a suitably qualified Registered Professional Engineer Queensland (RPEQ) that stormwater drainage works as a part of development works for the subdivision has been constructed to enable slab on ground construction for residential dwellings in lots and areas of lot established above Q100 flood line (provide a layout plan indicating building envelopes , if required for clarity).</p> <p>j. "As Constructed" data for [stormwater drainage, roadworks and earthworks where applicable]:</p> <p>i. In digital format all construction details compatible with IPWEAQ's Asset Design and As Constructed (ADAC) version 4.1 format with all details and values (e.g. survey levels, material types) matching the associated As-Constructed drawing(s). The electronic file will conform to the ADAC requirements including an electronic signature by a suitably qualified RPEQ / Registered Cadastral Surveyor where appropriate. The levels and positions of infrastructure must be referenced to GDA 94 (Zone 56) coordinate system and AHD.</p> <p>ii. A full set of approved drawings in PDF format that are clear and legible when printed at A3 scale with red-lined marked-up (strike through the original design data where applicable) showing changes to construction materials, design levels, locational details and other amendments from approved design that may have approved during the construction of approved Operational Works.</p> <p>iii. Each drawing marked as 'As Constructed' and signed by a suitably qualified RPEQ/ Registered Cadastral Surveyor.</p> <p>iv. A written confirmation from a Registered Cadastral Surveyor verifying the accuracy of the locational details, relative levels, boundaries and alignments as shown on the drawing(s).</p> <p>v. Details are to include any redundant and/or removed assets as well as the details of the immediate existing infrastructure where new works connect to an existing stormwater network.</p>	
35.	Submit to Council, a written request for an on-maintenance inspection issued by the developer's certifying Engineer (RPEQ) stating that all approved works have been completed and are ready for Council inspection.	Prior to acceptance on-maintenance.
36.	Rectify any defects identified by Council during the on-maintenance period. Defects must be remedied under the direction of the supervising engineer (RPEQ).	Prior to acceptance off-maintenance.
37.	Upon completion of the remedial works, the supervising engineer must request Council for another inspection of remedied works.	Prior to acceptance off-maintenance.
<b>MAINTENANCE PERIOD</b>		
38.	The works that will become Council's infrastructure will be subject to a minimum twelve (12) month maintenance period, commencing from the On-Maintenance date stipulated by the assessment manager in 'On Maintenance' correspondence.	Prior to acceptance off-maintenance.

<b>ON/OFF MAINTENANCE</b>		
39.	Undertake any further inspections, testing or analysis required, due to failure of work to meet specifications or where the testing previously provided is considered insufficient on behalf of the Principal Contractor by a NATA accredited entity, as directed by the Council further to the initial on/off-maintenance inspection.	At all times.
40.	Provide a letter from a suitably qualified and experienced RPEQ stating that report and test results had been reviewed and proposed rectification works for Council approval.	At all times.
41.	Undertake any rectification works further to a written approval from the Council.	At all times.
42.	Council is not liable for the rectification of or compensation for any damage caused in the testing or analysis process should work be found to be not constructed to specification or of poor quality and not satisfactory by Council.	At all times.
43.	The applicant and supervising engineer are responsible and liable for the rectification of defects, materials and works.	At all times.
44.	The Council reserves the right to call on the applicant or supervising engineer to rectify any works that have been found to not comply with the Certificates received or for the safety or health of the community or protection of infrastructure where Council deems it necessary.	At all times.
<b>OFF MAINTENANCE</b>		
45.	The Council reserves the right to extend the maintenance period for a period determined by the Council pending the performance of the Council infrastructure, landscaping, erosion and sediment control and earthworks during the initial maintenance period. The above performance monitoring process to continue until any matters are resolved to Council's satisfaction.	At all times.
46.	The Council reserves the right to extend the maintenance period to allow establishment of approved landscaping works and grass coverage (of 80% except in areas that has dispersible or erosive soils characteristics) or request to provide an alternative permanent erosion control measure acceptable to Council for affected areas; <ul style="list-style-type: none"> <li>a. in the event it is proposed to provide grass seeding or hydro mulching at off-maintenance inspection to address any grass coverage issues to allow establishment.</li> <li>b. in the event the region is experiencing an unfavourable climate conditions for the establishment of approved landscaping works or grass coverage at the time of off-maintenance inspection.</li> </ul>	At all times.
47.	Comply with the following conditions prior to Off-maintenance inspection: <ul style="list-style-type: none"> <li>a. Fill and grade the remaining unsealed verge area or reinstate any areas subject to erosion and must be either fully turfed or grassed to achieve 80% grass coverage.</li> <li>b. All the other areas disturbed during construction works (including areas where water management works are constructed) must be either fully turfed or grassed to achieve 80% grass coverage.</li> </ul>	Prior to request for off-maintenance.
48.	Submit to Council a Closed Circuit Television camera (CCTV) inspection undertaken for underground stormwater drainage works no more than 2 weeks prior to the off maintenance inspection along with a letter from	Prior to request for off-maintenance.

	a suitably qualified and experienced RPEQ stating that CCTV inspection report and video had been reviewed and identifying any issues.	
49.	The works will be accepted Off Maintenance only where the works have been suitably maintained to engineer or manufacturer's specifications and any rectification works approved by the Council has been completed to Council's satisfaction and Council standards.	At all times.
50.	All works must be fully completed to RPEQ Certified design and specifications, and the assessment manager must be satisfied that the works have been properly completed and landscaping and grass cover established.	At all times.
51.	The maintenance bond will be entirely forfeited to Council should there be any failure by the applicant to undertake any such works considered by Council as necessary, to rectify any non-compliant works and to protect public safety. In the event that the bond is insufficient to address the non-compliant works, Council reserves the right to seek restitution. After expiration of the maintenance period and where required maintenance is suitably undertaken to Council's satisfaction, the bond will be returned accordingly, after the project is accepted off-maintenance.	At all times.
52.	Undertake any necessary maintenance or repairs to defects and/or damage to any works undertaken in relation to this approval, even where damage has resulted from a third-party activity prior to Council accepting work off-maintenance.	At all times.

#### ADVISORY NOTES

- (i) All works associated with this approval may not start until all subsequent approvals have been obtained, and its conditions complied with.
- (ii) Any additions or modifications to the approved use (not covered in this approval) may be subject to further application for development approval.
- (iii) The maintenance bond will be entirely forfeited to Council should there be any failure by the applicant to undertake any such works considered by Council as necessary, to rectify any non-compliant works and to protect public safety. If the bond is insufficient to address the non-compliant works, Council reserves the right to seek restitution.
- (iv) In approving plans and specifications for this project, Council has carried out an audit check of information submitted by Van Der Meer Consulting Pty Ltd. Accordingly, Council has placed reliance on the certificate of design signed by the Registered Professional Engineer Queensland (RPEQ) that the Approved Plans and specifications are correct and in accordance with required engineering standards. The RPEQ bears full responsibility for all aspects of the engineering design. Council reserves the right to require further amendments and/or additions at a later stage, should design errors become apparent.
- (v) **Fire ants**  
Biosecurity Queensland should be notified on 13 25 23 of proposed development(s) occurring in the fire ant biosecurity zone before operational works commence. It should be noted that works involving fire ant carrier materials may be subject to movement controls and failure to obtain necessary approvals from Biosecurity Queensland is an offence.

It is a legal obligation to report any sighting or suspicion of fire ants within 24 hours to Biosecurity Queensland on 13 25 23.

The Fire Ant Restricted Area as well as general information can be viewed on the [DAF website](#).

(vi) **Biosecurity**

Ensure all prohibited and restricted biosecurity matter under the Biosecurity Act 2014 are removed appropriately prior to conducting any works on the site.

Everyone is obligated under the *Biosecurity Act 2014* to take all reasonable and practical steps to minimise the risks associated with invasive plants under their control. More information on restricted and invasive plants as well as your general biosecurity obligation (GBO) can be viewed on the [Business Queensland website](#).

(vii) **Cultural heritage**

The *Aboriginal Cultural Heritage Act 2003* requires anyone who carries out a land use activity to exercise a duty of care. Further information on cultural heritage duty of care is available on the [Department of Aboriginal and Torres Strait Islander Partnerships \(DATSIP\)](#) website:

The DATSIP has established a [register and database](#) of recorded cultural heritage matters, which is also available on the Department's website:

Should any aboriginal, archaeological or historic sites, items or places be identified, located or exposed during construction or operation of the development, the *Aboriginal Cultural Heritage Act 2003* requires all activities to cease. Please contact DATSIP for further information.

**Advice for Urban Utilities**

On 1 July 2014, Urban Utilities became the assessment manager for the water and wastewater aspects of development applications. An application will need to be made directly to Urban Utilities for water supply connections for the proposed development.



## Appeal Rights

Extract from the *Planning Act 2016*

### Chapter 6 Dispute resolution

#### Part 1 Appeal rights

#### 229 Appeals to tribunal or P&E Court

- (1) Schedule 1 states–
  - (a) matters that may be appealed to–
    - (i) either a tribunal or the P&E Court; or
    - (ii) only a tribunal; or
    - (iii) only the P&E Court; and
  - (b) The person–
    - (i) who may appeal a matter (**the appellant**); and
    - (ii) who is a respondent in an appeal of the matter; and
    - (iii) who is a co-respondent in an appeal of the matter; and
    - (iv) who may elect to be a co-respondent in an appeal of the matter.
- (2) An appellant may start an appeal within the appeal period.
- (3) The **appeal period** is–
  - (a) for an appeal by a building advisory agency – 10 business days after a decision notice for the decision is given to the agency; or
  - (b) for an appeal against a deemed refusal – at any time after the deemed refusal happens; or
  - (c) for an appeal against a decision of the Minister, under chapter 7, part 4, to register premises or to renew the registration of premises – 20 business days after a notice is published under section 269(3)(a) or (4); or
  - (d) for an appeal against an infrastructure charges notice – 20 business days after the infrastructure charges notice is given to the person; or
  - (e) for an appeal about a deemed approval of a development application for which a decision notice has not been given – 30 business days after the applicant gives the deemed approval notice to the assessment manager; or
  - (g) for any other appeal – 20 business days after a notice of the decision for the matter, including an enforcement notice, is given to the person.

*Note – See the P&E Court Act for the court’s power to extend the appeal period.*
- (4) Each respondent and co-respondent for an appeal may be heard in the appeal.
- (5) If an appeal is only about a referral agency’s response, the assessment manager may apply to the tribunal or P&E Court to withdraw from the appeal.
- (6) To remove any doubt, it is declared that an appeal against an infrastructure charges notice must not be about-
  - (a) the adopted charge itself; or
  - (b) for a decision about an offset or refund-
    - (i) the establishment cost of trunk infrastructure identified in a LGIP; or
    - (ii) the cost of infrastructure decided using the method included in the local government’s charges resolution.

#### 230 Notice of appeal

- (1) An appellant starts an appeal by lodging, with the registrar of the tribunal or P&E Court, a notice of appeal that–
  - (a) is in the approved form; and
  - (b) succinctly states the grounds of the appeal.
- (2) The notice of appeal must be accompanied by the required fee.
- (3) The appellant or, for an appeal to a tribunal, the registrar must, within the service period, give a copy of the notice of appeal to–
  - (a) the respondent for the appeal; and
  - (b) each co-respondent for the appeal; and



- (c) for an appeal about a development application under schedule 1, table 1, item 1 – each principal submitter for the development application; and
  - (d) for and appeal about a change application under schedule 1, table 1, item 2 – each principal submitter for the change application; and
  - (e) each person who may elect to become a co-respondent for the appeal, other than an eligible submitter who is not a principal submitter in an appeal under paragraph (c) or (d); and
  - (f) for an appeal to the P&E Court – the chief executive; and
  - (g) for an appeal to a tribunal under another Act – any other person who the registrar considers appropriate.
- (4) The service period is–
    - (a) if a submitter or advice agency started the appeal in the P&E Court – 2 business days after the appeal has started; or
    - (b) otherwise – 10 business days after the appeal is started.
  - (5) A notice of appeal given to a person who may elect to be a co-respondent must state the effect of subsection (6).
  - (6) A person elects to be a co-respondent by filing a notice of election, in the approved form, within 10 business days after the notice of appeal is given to the person.

### 231 Other appeals

- (1) Subject to this chapter, section 316(2), schedule 1 and the P&E Court Act, unless the Supreme Court decides a decision or other matter under this Act is affected by jurisdictional error, the decision or matter is non-appealable.
- (2) The *Judicial Review Act 1991*, part 5 applies to the decision or matter to the extent it is affected by jurisdictional error.
- (3) A person who, but for subsection (1) could have made an application under the *Judicial Review Act 1991* in relation to the decision or matter, may apply under part 4 of that Act for a statement of reasons in relation to the decision or matter.
- (4) In this section–
  - decision** includes–
    - (a) conduct engaged in for the purpose of making a decision; and
    - (b) other conduct that relates to the making of a decision; and
    - (c) the making of a decision or failure to make a decision; and
    - (d) a purported decision ; and
    - (e) a deemed refusal.
  - non-appealable**, for a decision or matter, means the decision or matter–
    - (a) is final and conclusive; and
    - (b) may not be challenged, appealed against, reviewed, quashed, set aside or called into question in any other way under the *Judicial Review Act 1991* or otherwise, whether by the Supreme Court, another court, a tribunal or another entity; and
    - (c) is not subject to any declaratory, injunctive or other order of the Supreme Court, another court, a tribunal or another entity on any ground.

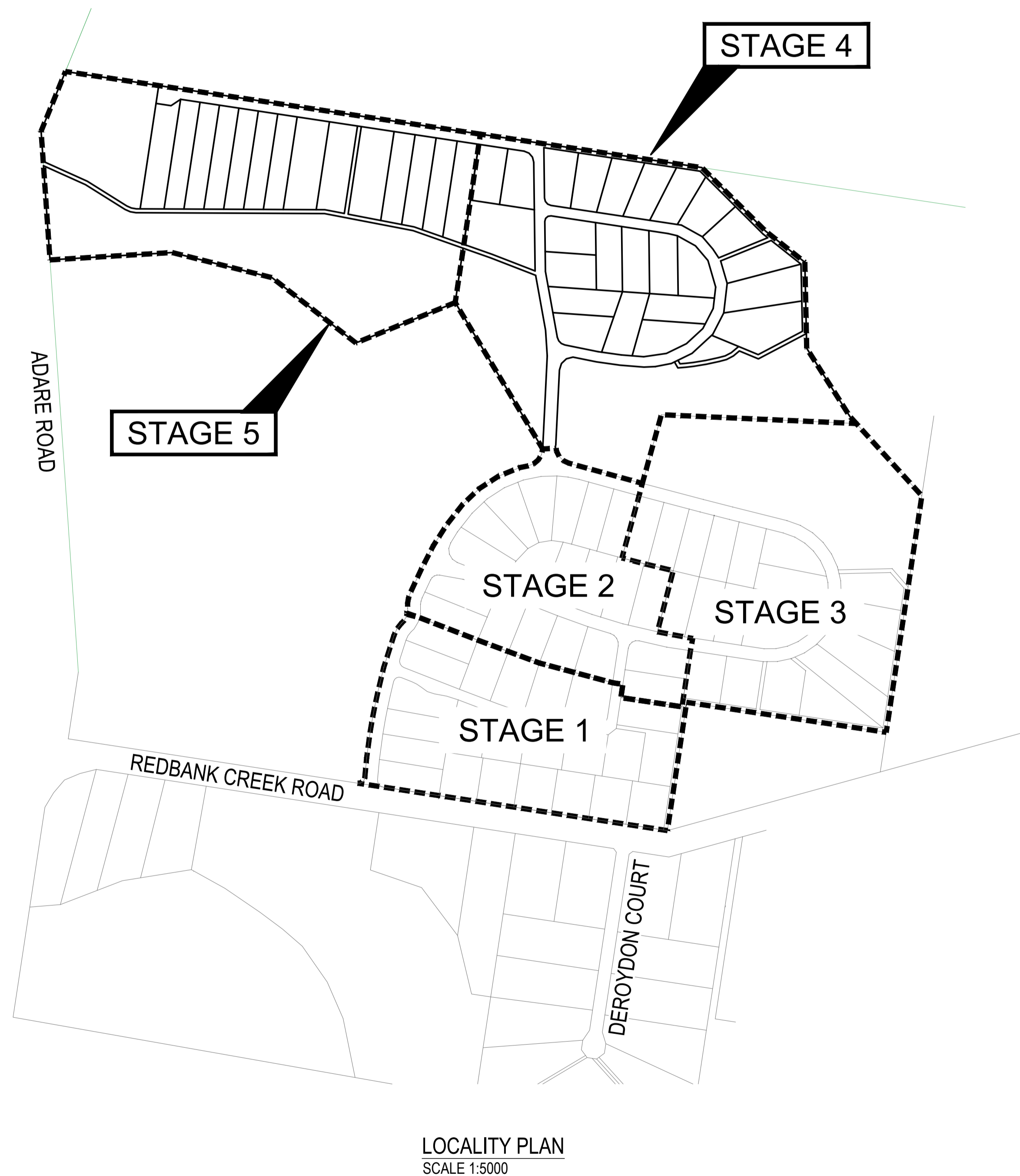
### 232 Rules of the P&E Court

- (1) A person who is appealing to the P&E Court must comply with the rules of the court that apply to the appeal.
- (2) However, the P&E Court may hear and decide an appeal even if the person has not complied with the rules of the P&E Court.

# PROPOSED SUBDIVISION

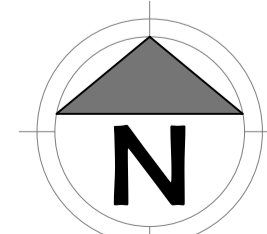
## PARKLAKE, ADARE - STAGES 4 AND 5

### 174 ADARE ROAD, ADARE, QLD 4343



CIVIL ENGINEERING DRAWINGS	
SHEET NUMBER	SHEET TITLE
C4000	COVER SHEET
C4001	STANDARD NOTES
C4002	SITE PLAN - SHEET 1
C4003	SITE PLAN - SHEET 2
C4004	SITE PLAN - SHEET 3
C4100	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1
C4101	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2
C4102	EROSION AND SEDIMENT CONTROL PLAN - SHEET 3
C4190	EROSION AND SEDIMENT CONTROL DETAILS
C4191	EROSION AND SEDIMENT CONTROL NOTES
C4200	BULK EARTHWORKS PLAN - SHEET 1
C4201	BULK EARTHWORKS PLAN - SHEET 2
C4202	BULK EARTHWORKS PLAN - SHEET 3
C4290	BULK EARTHWORKS DETAILS
C4300	PAVEMENT PLAN - SHEET 1
C4301	PAVEMENT PLAN - SHEET 2
C4302	PAVEMENT PLAN - SHEET 3
C4400	ROADWORKS PLAN - SHEET 1
C4401	ROADWORKS PLAN - SHEET 2
C4402	ROADWORKS PLAN - SHEET 3
C4430	SIGNS AND PAVEMENT MARKING PLAN - SHEET 1
C4431	SIGNS AND PAVEMENT MARKING PLAN - SHEET 2
C4432	SIGNS AND PAVEMENT MARKING PLAN - SHEET 3
C4450	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 1
C4451	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 2
C4452	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 3
C4453	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 4
C4454	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 1
C4455	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 2
C4456	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 3
C4457	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 4
C4458	ROAD LONGITUDINAL SECTION - BURTON CRESCENT - SHEET 1
C4459	ROAD LONGITUDINAL SECTION - BURTON CRESCENT - SHEET 2
C4460	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 1
C4461	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 2
C4462	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 3
C4480	INTERSECTION DETAILS
C4490	ROADWORKS DETAILS
C4500	DRAINAGE CATCHMENT PLAN
C4501	DRAINAGE PLAN - SHEET 1
C4502	DRAINAGE PLAN - SHEET 2
C4503	DRAINAGE PLAN - SHEET 3
C4510	DRAINAGE BIO RETENTION BASIN DETAILS
C4550	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
C4551	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
C4560	DRAINAGE CALCULATIONS
C4600	WATER RETICULATION COVER SHEET
C4601	WATER RETICULATION PLAN - SHEET 1
C4602	WATER RETICULATION PLAN - SHEET 2
C4603	WATER RETICULATION PLAN - SHEET 3
C4700	BUSHFIRE TRAIL 3 AND 4 PLAN
C4701	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 1
C4702	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 2
C4703	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 3
C4704	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 1
C4705	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 2
C4706	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 3
C4707	BUSHFIRE TRAIL 4 LONGITUDINAL AND CROSS SECTIONS
C4708	BUSHFIRE TRAIL 5 AND 6 PLAN
C4709	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 1
C4710	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 2
C4711	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 3
C4712	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 1
C4713	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 2
C4714	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 3
C4715	BUSHFIRE TRAIL 6 LONGITUDINAL AND CROSS SECTIONS
C4716	BUSHFIRE TRAIL DETAILS

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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IF IN DOUBT - ASK.

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

SCALE  
0 100 200 300 400 500m  
SCALE 1:5000

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**COVER SHEET**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4000	REVISION 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 OF WORK.
- 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 RLS 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.
- G16. ORIGINAL SURVEY WAS COMPLETED BY BPLANNED & SURVEYED PH 1300 275 266

## 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 (SMD), 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 E.1.1, E.4.1) 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.

## 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: 93323.00.R01.Rev01.
- 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 APPROVE.
- 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 016 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 INFORMATION.
- 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% SMD. UNDER LANDSCAPED AREAS ADDITIONAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL COMPACTED IN 200mm LAYERS TO 98% SMD. A 3m LENGTH OF 100 Ø SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING SHALL BE PROVIDED ON THE UPSTREAM SIDE OF ALL PITS.
- D4. CONCRETE STORMWATER PIPES TO BE CLASS '3' UNDER ROADS AND CLASS '2' IN NON-TRAFFICED AREAS. ALL PIPES GREATER THAN 3000 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 - Fc 25MPa
- D6. 1500, 2250 AND 3000 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".
- D8. SUPERINTENDENT TO APPROVE LOCATION OF SUBSOIL OUTLET HEADWALLS IN ACCORDANCE WITH IPWEAQ STD DRG RS-142.

## 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 DRAWINGS 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.
- S3. 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.
- S5. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- S6. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE WORKS.
- S7. 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 ITS LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO ITS PROPERTY AND LOSSES CAUSED TO TELSTRA AND ITS 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 (SMD) WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC) 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/m<sup>3</sup> PORTLAND CEMENT
    - MAXIMUM AGGREGATE SIZE 20 mm.
    - W/C RATIO 0.45 TO 0.55.
    - DENSITY 1600 TO 2000 kg/m<sup>3</sup>.
  - 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 SMD. 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% SMD 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.
  - F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND NOT LESS THAN 75mm COMPACTED THICKNESS. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.
  - F4. 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.
  - F6. 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.
  - F7. A MINIMUM GRAVEL LAYER 150-200mm ABOVE THE GEOGRID SHALL BE ADHERED TO AS PER SUPPLIER (GLOBAL SYNTHETICS) REQUIREMENTS AND SPECIFICATIONS.

## 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 FILE.
- 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)	f <sub>uc</sub> = 15 MPa	M3

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

- M4. LAY BOTTOM COURSE OF BLOCKS ON FULL MORTAR BED.
- M5. ALL PERPENDS SHALL BE FILLED WITH MORTAR, EXCEPT WEEPHOLES.
- M6. ALL CORES SHALL BE GROUTED UNLESS NOTED OTHERWISE.
- M7. 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/m<sup>3</sup> 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 VIBRATION.

## 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 <sub>c</sub> (MPa)	OTHER REQ
EXTERNAL VEHICLE SLAB	+ 80	20	N32	(1)

- + DENOTES SLUMP AT PLANT
  - (1) DENOTES MAXIMUM BASE SHRINKAGE STRAIN 600 x 10<sup>-6</sup> AT 56 DAYS (TO AS 1012 PART 13)
- C4. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
  - C5. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.
  - C6. HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS SHALL NOT BE PLACED IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
  - C7. CONDUITS, PIPES AND LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER, NOR DISPLACE THE REINFORCEMENT LAYERS.
  - C8. 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.
  - C9. 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 APPROVAL OF THE ENGINEER.

- C13. ALL CONCRETE DELIVERED TO SITE SHALL BE SUBJECT TO PROJECT ASSESSMENT IN ACCORDANCE WITH AS 1379.

- 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.

## 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.  
 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:  
 1 TRUCK PER DAY - 1 SAMPLE  
 2 TO 5 TRUCKS PER DAY - 2 SAMPLES  
 6 TO 10 TRUCKS PER DAY - 3 SAMPLES  
 10 TO 20 TRUCKS PER DAY - 4 SAMPLES  
 FOR EACH ADDITIONAL 10 TRUCKS PER DAY, 1 SAMPLE.

SLUMP: 1 SAMPLE PER TRUCK AT TIME OF POURING.

- C16. REFER TO TYPICAL STRIPPING AND PROPPING DETAIL.

REVISIONS:				
B	NOTE D8 ADDED	MP	26/06/24	
A	ISSUED FOR APPROVAL	MP	15/04/24	
No.	REVISION DESCRIPTION	DRAWN	DATE	



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 IF IN DOUBT, ASK.

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

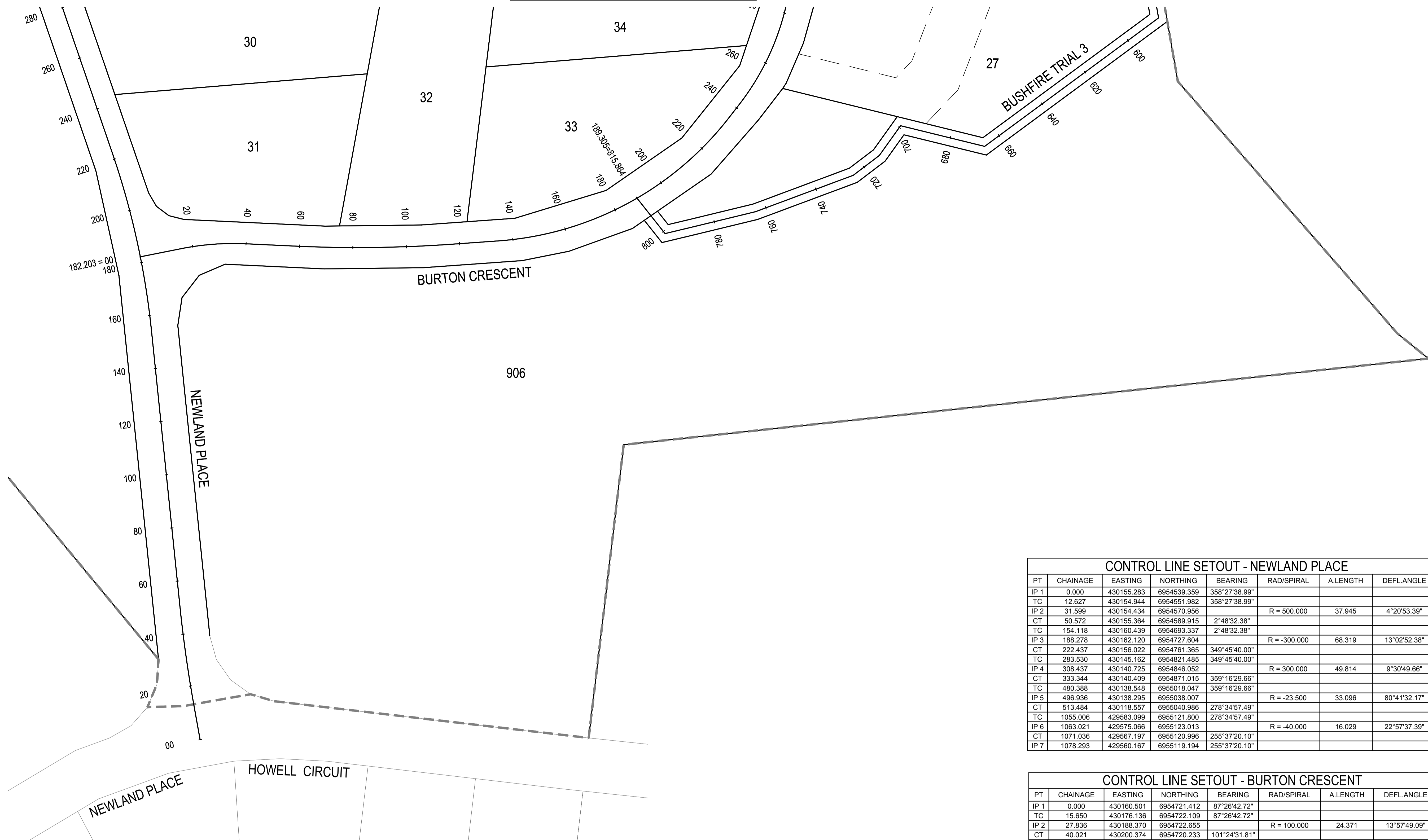
SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5

DRAWING TITLE  
**STANDARD NOTES**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4001	B	

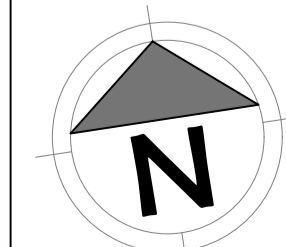
FOR CONTINUATION REFER DWG No. C4003



CONTROL LINE SETOUT - NEWLAND PLACE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430155.283	6954539.359	358°27'38.99"			
TC	12.627	430154.944	6954551.982	358°27'38.99"			
IP 2	31.599	430154.434	6954570.956		R = 500.000	37.945	4°20'53.39"
CT	50.572	430155.364	6954589.915	2°48'32.38"			
TC	154.118	430160.439	6954693.337	2°48'32.38"			
IP 3	188.278	430162.120	6954727.604		R = -300.000	68.319	13°02'52.38"
CT	222.437	430156.022	6954761.365	349°45'40.00"			
TC	283.530	430145.162	6954821.485	349°45'40.00"			
IP 4	308.437	430140.725	6954846.052		R = 300.000	49.814	9°30'49.66"
CT	333.344	430140.409	6954871.015	359°16'29.66"			
TC	480.388	430138.548	6955018.047	359°16'29.66"			
IP 5	496.936	430138.295	6955038.007		R = -23.500	33.096	80°41'32.17"
CT	513.484	430118.557	6955040.986	278°34'57.49"			
TC	1055.006	429583.099	6955121.800	278°34'57.49"			
IP 6	1063.021	429575.066	6955123.013		R = -40.000	16.029	22°57'37.39"
CT	1071.036	429567.197	6955120.996	255°37'20.10"			
IP 7	1078.293	429560.167	6955119.194	255°37'20.10"			

CONTROL LINE SETOUT - BURTON CRESCENT							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430160.501	6954721.412	87°26'42.72"			
TC	15.650	430176.136	6954722.109	87°26'42.72"			
IP 2	27.836	430188.370	6954722.655		R = 100.000	24.371	13°57'49.09"
CT	40.021	430200.374	6954720.233	101°24'31.81"			
TC	58.038	430218.034	6954716.669	101°24'31.81"			
IP 3	87.733	430247.177	6954710.788		R = -500.000	59.391	6°48'20.39"
CT	117.428	430276.812	6954708.402	94°36'11.42"			
TC	134.629	430293.957	6954707.022	94°36'11.42"			
IP 4	184.944	430347.270	6954702.729		R = -120.000	100.628	48°02'47.09"
CT	235.258	430386.104	6954739.508	46°33'24.33"			
TC	241.529	430390.658	6954743.821	46°33'24.33"			
IP 5	275.195	430416.178	6954767.990		R = -95.000	67.330	40°36'27.74"
CT	308.860	430419.821	6954802.950	5°56'56.59"			
TC	315.692	430420.529	6954809.745	5°56'56.59"			
IP 6	388.124	430429.933	6954899.992		R = -95.000	144.864	87°22'10.09"
CT	460.556	430340.213	6954913.528	278°34'46.51"			
TC	638.819	430164.142	6954940.092	278°34'46.51"			
IP 7	646.739	430156.095	6954941.306		R = -100.000	16.240	9°18'16.85"
CT	654.859	430147.958	6954941.203	269°16'29.66"			
IP 8	663.296	430139.522	6954941.097	269°16'29.66"			

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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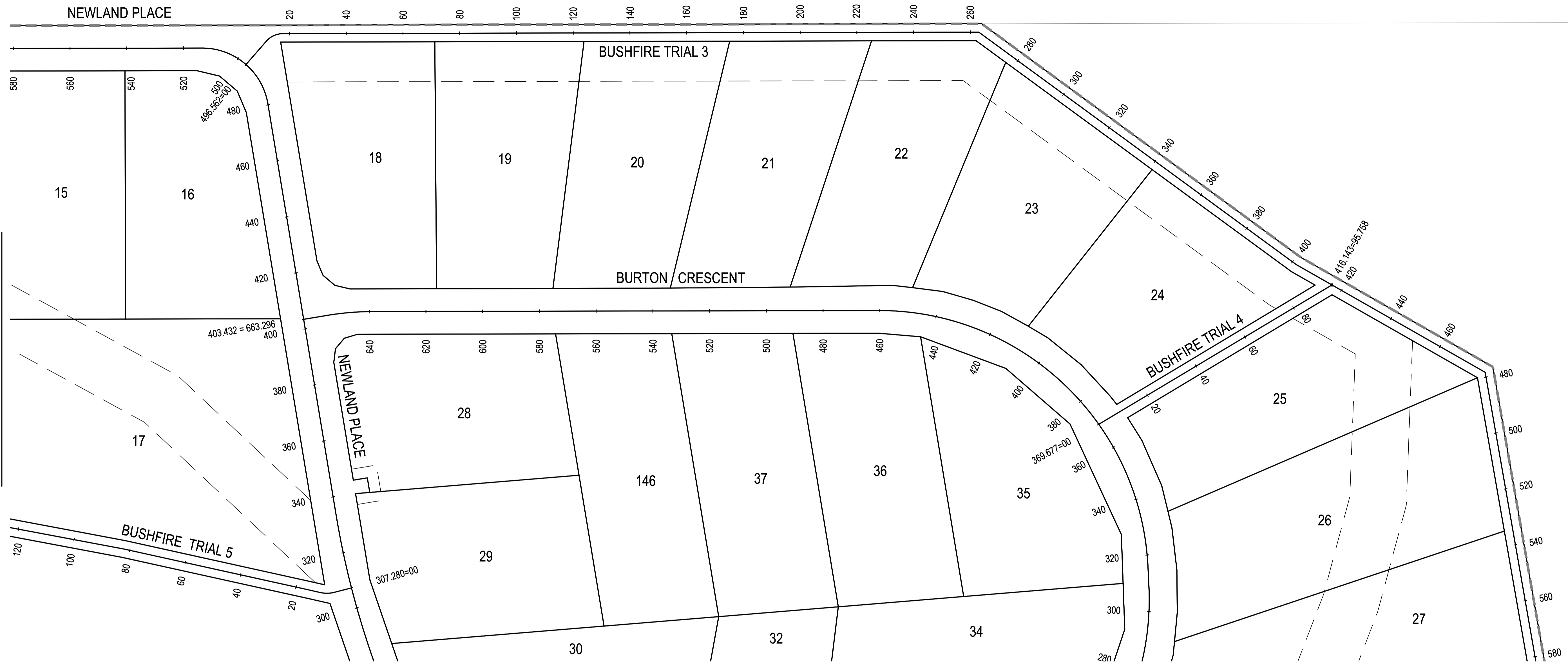
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 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE  
  
 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**SITE PLAN SHEET 1**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4002	SHEET SIZE A1
	REVISION	

OR CONTINUATION REFER DWG No. C4004



FOR CONTINUATION REFER DWG No. C4002

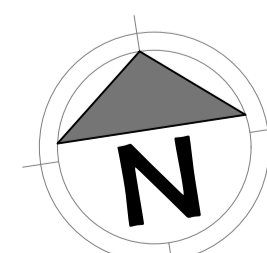
CONTROL LINE SETOUT - BUSHFIRE TRAIL 3

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A. LENGTH	DEFL. ANGLE
IP 1	0.000	430132.890	6955032.804	49°48'52.57"			
TC	10.985	430141.282	6955039.893	49°48'52.57"			
IP 2	14.390	430144.053	6955042.232		R = 8.000	6.809	48°45'53.94"
CT	17.794	430147.638	6955041.692	98°34'46.51"			
IP 3	262.984	430390.084	6955005.113				
IP 4	401.652	430488.313	6954907.236				
IP 5	478.299	430548.398	6954859.649				
IP 6	585.818	430550.741	6954752.155				
IP 7	666.750	430479.117	6954714.472				
IP 8	699.139	430449.198	6954726.875				
IP 9	712.841	430439.633	6954717.063				
IP 10	725.073	430428.891	6954711.213				
IP 11	764.170	430390.610	6954703.265				
IP 12	788.089	430366.780	6954701.205				
IP 13	798.958	430355.949	6954700.301				
IP 14	815.864	430347.573	6954714.986	330°18'00.00"			

CONTROL LINE SETOUT - BUSHFIRE TRAIL 4

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	430410.978	6954862.144	67°51'20.12"
IP 2	95.758	430499.672	6954898.239	67°51'20.12"

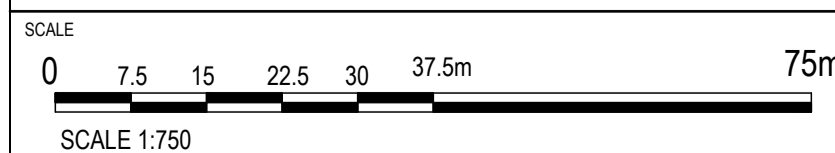
REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL



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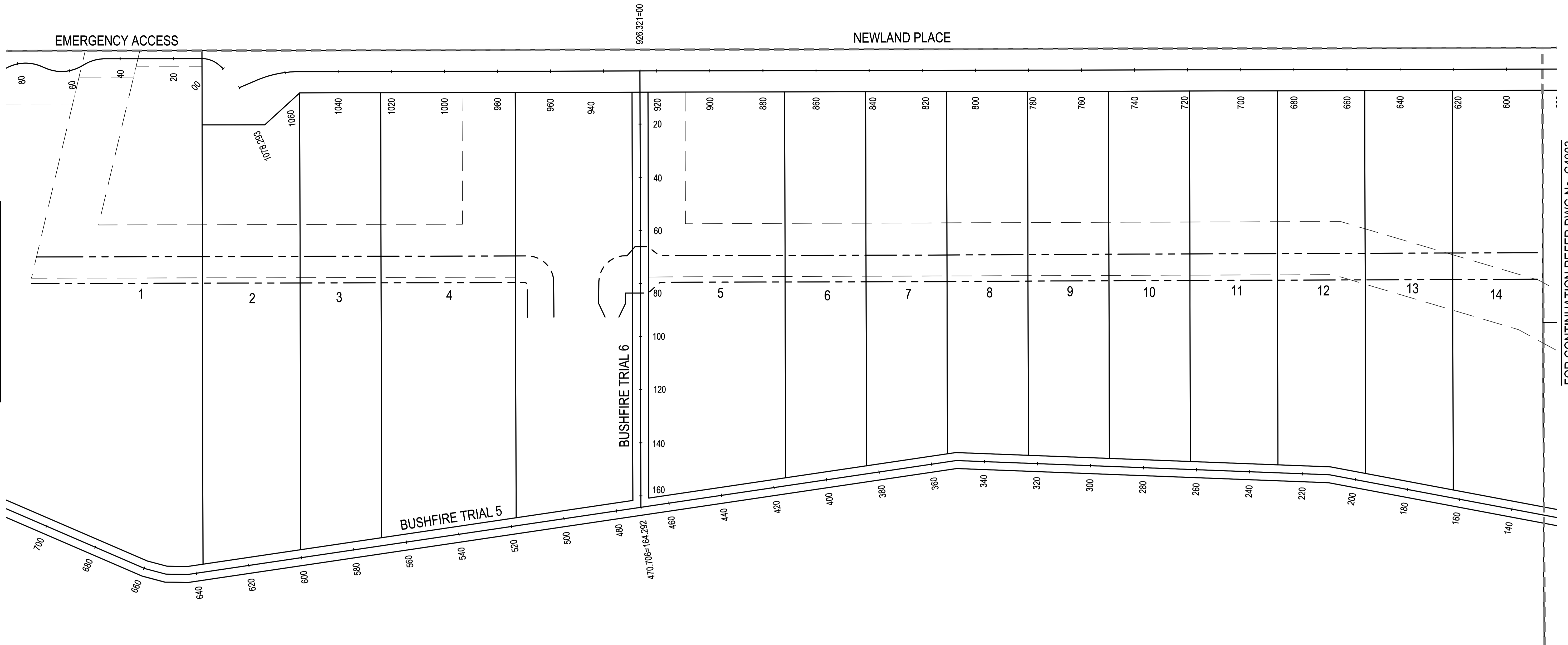
PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5

DRAWING TITLE  
**SITE PLAN SHEET 2**

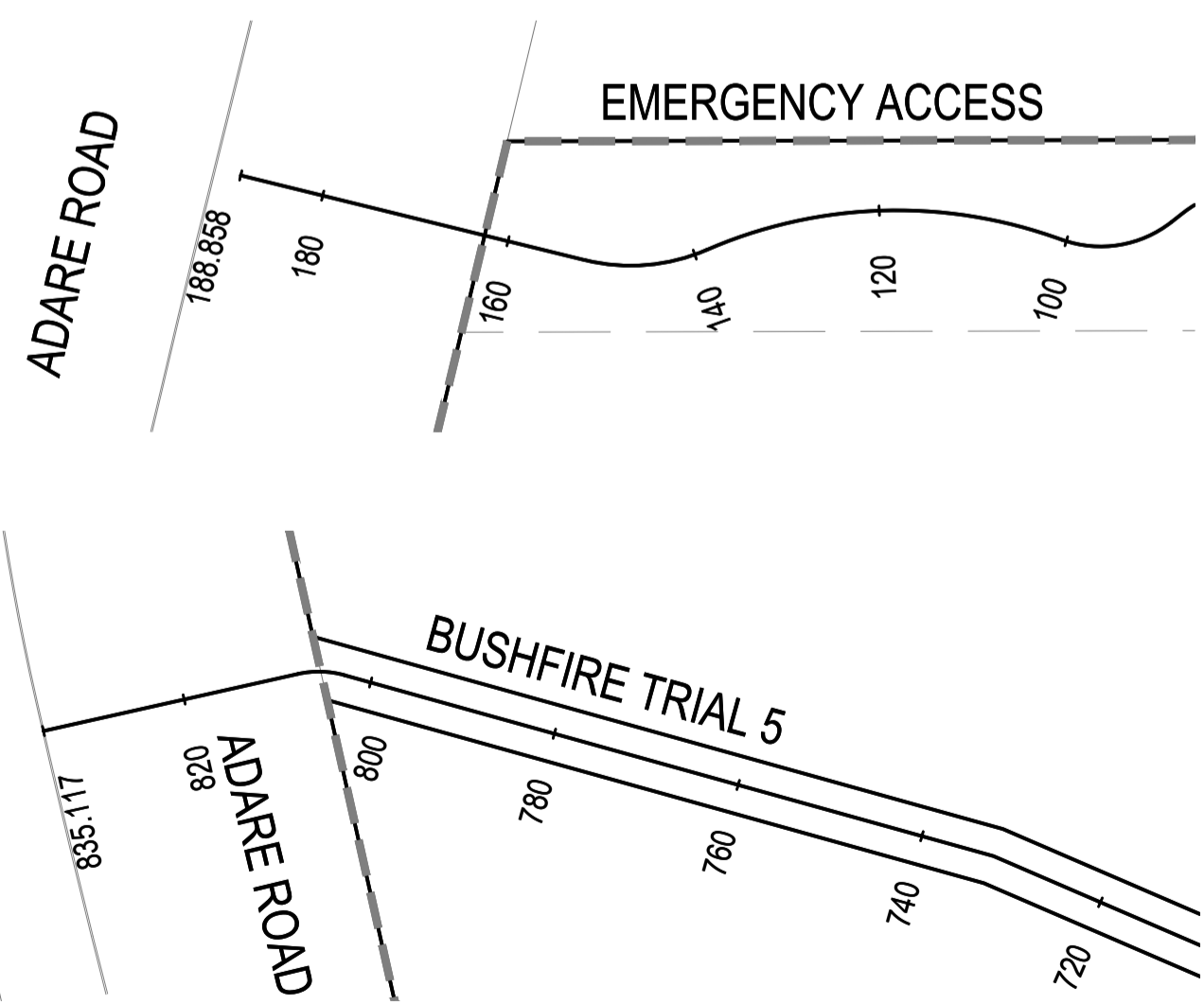
DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4003	A	

FOR CONTINUATION REFER BELOW



FOR CONTINUATION REFER DWG No. C4003



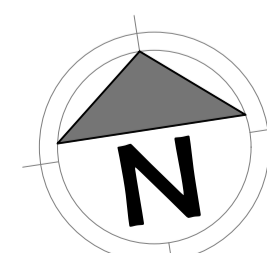
FOR CONTINUATION REFER ABOVE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430132.890	6955032.804	49°48'52.57"			
TC	10.985	430141.282	6955039.893	49°48'52.57"			
IP 2	14.390	430144.053	6955042.232		R = 8.000	6.809	48°45'53.94"
CT	17.794	430147.638	6955041.692	98°34'46.51"			
IP 3	262.984	430390.084	6955005.113				
IP 4	401.652	430488.313	6954907.236				
IP 5	478.299	430548.398	6954859.649				
IP 6	585.818	430550.741	6954752.155				
IP 7	666.750	430479.117	6954714.472				
IP 8	699.139	430449.198	6954726.875				
IP 9	712.841	430439.633	6954717.063				
IP 10	725.073	430428.891	6954711.213				
IP 11	764.170	430390.610	6954703.265				
IP 12	788.089	430366.780	6954701.205				
IP 13	798.958	430355.949	6954700.301				
IP 14	815.864	430347.573	6954714.986	330°18'00.00"			

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430141.870	6954845.000	264°17'49.22"			
TC	6.365	430135.536	6954844.367	264°17'49.22"			
IP 2	8.736	430133.131	6954844.127		R = 10.000	4.742	27°10'10.78"
CT	11.107	430130.882	6954845.011	291°28'00.00"			
IP 3	16.114	430126.224	6954846.843				
IP 4	82.169	430064.621	6954870.686				
IP 5	209.918	429944.088	6954913.014				
IP 6	350.579	429805.957	6954939.572				
IP 7	643.216	429513.324	6954940.941				
IP 8	651.458	429505.195	6954942.301				
IP 9	659.720	429497.621	6954945.602				
IP 10	732.210	429436.170	6954984.056				
TC	802.857	429371.770	6955013.100	294°16'30.00"			
IP 11	805.319	429369.479	6955014.133		R = -10.000	4.924	28°12'42.51"
CT	807.781	429366.972	6955013.961	266°03'47.49"			
IP 12	835.117	429339.700	6955012.084	266°03'47.49"			

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	429710.341	6955102.588	188°34'47.00"
IP 2	164.292	429685.831	6954940.134	188°34'47.00"

No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**SITE PLAN SHEET 3**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4004	SHEET SIZE A1
	REVISION	A

FOR CONTINUATION REFER DWG No. C4101



**GENERAL NOTES:**

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND SEDIMENTATION DURING ALL STAGES OF THE CONSTRUCTION ACTIVITIES UNTIL COMPLETION OF THE WORKS.
2. THE ADOPTED EROSION AND SEDIMENT CONTROL MEASURES ARE APPROPRIATELY AMENDED IF SITE CONDITIONS OR SCOPE OF WORKS SIGNIFICANTLY CHANGES, OR ARE EXPECTED TO SIGNIFICANTLY CHANGE FROM THOSE CONDITIONS ASSUMED DURING DEVELOPMENT OF THE ESCP.
3. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S AND THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINES 2008.
4. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO GRUBBING WORKS.
5. WHERE KERB AND CHANNEL OR KERB ONLY IS INSTALLED, AN 800mm WIDE CONTINUOUS STRIP OF TURF WITH ADDITIONAL FILTER STRIPS AT 5.0m SPACING SHALL BE LAID BEHIND ALL KERBS. THE REMAINING UNSEALED VERGE AREA SHALL BE FILLED, GRADED AND GRASS SEEDING TO ACHIEVE 80% GRASS COVERAGE AT OFF MAINTENANCE. (UNLESS NOTED OTHERWISE)

**LAND CLEARING AND VEGETATION MANAGEMENT:**

1. CLEARING EXTENTS IS NOT TO EXCEED A DISTANCE OF 5.0m OUTSIDE OF THE CUT AND FILL HATCH EXTENTS. ALL VEGETATION IS TO BE REMOVED TO FACILITATE THE IDENTIFIED BULK EARTHWORKS.
2. LAND CLEARING SHOULD NOT OCCUR UNLESS PRECEDED BY THE INSTALLATION OF ALL NECESSARY DRAINAGE AND EROSION SEDIMENT CONTROL MEASURES.
3. WHEREVER PRACTICAL, RETAIN VEGETATION COVER ON SITE. LAND CLEARING IS TO BE STAGED TO MINIMISE THE EXTENT AND DURATION OF SOIL EXPOSURE. TIMING OF WORKS MUST BE CONSIDERED WHEN LAND CLEARING - BULK EARTHWORKS SHOULD BE CARRIED OUT DURING THE 'DRY SEASON' WHEN POSSIBLE.
4. RESTRICT MOVEMENT OF CONSTRUCTION EQUIPMENT TO AVOID UNNECESSARY SOIL COMPACTION.
5. AS WORKS PROCEED, DISTURBED AREAS SHOULD BE STABILISED, REHABILITATED, AND REVEGETATED AS SOON AS POSSIBLE AFTER EARTHWORKS HAVE BEEN COMPLETED.
6. CLEARING TO BE UNDERTAKEN NO MORE THAN 8 WEEKS AHEAD OF EARTHWORKS IN ACCORDANCE WITH TABLE 4.4.7 OF IECA GUIDELINE.
7. DISTURBED SOILS SURFACES TO BE STABILISED WITH 70% COVER WITHIN 30 DAYS (TABLE 4.4.7 OF IECA MANUAL).
8. REVEGETATION AND LANDSCAPING WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH DOCUMENTED PLANS.

**SERVICES (PUP) LEGEND**

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

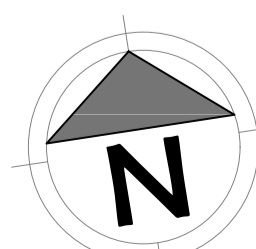
(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

**LEGEND**

- SEDIMENT FENCING
- CONSTRUCTION ENTRY / EXIT
- SANDBAG CHECK DAM
- STAGE BOUNDARY

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
B	SEDIMENT FENCE EXTENT UPDATED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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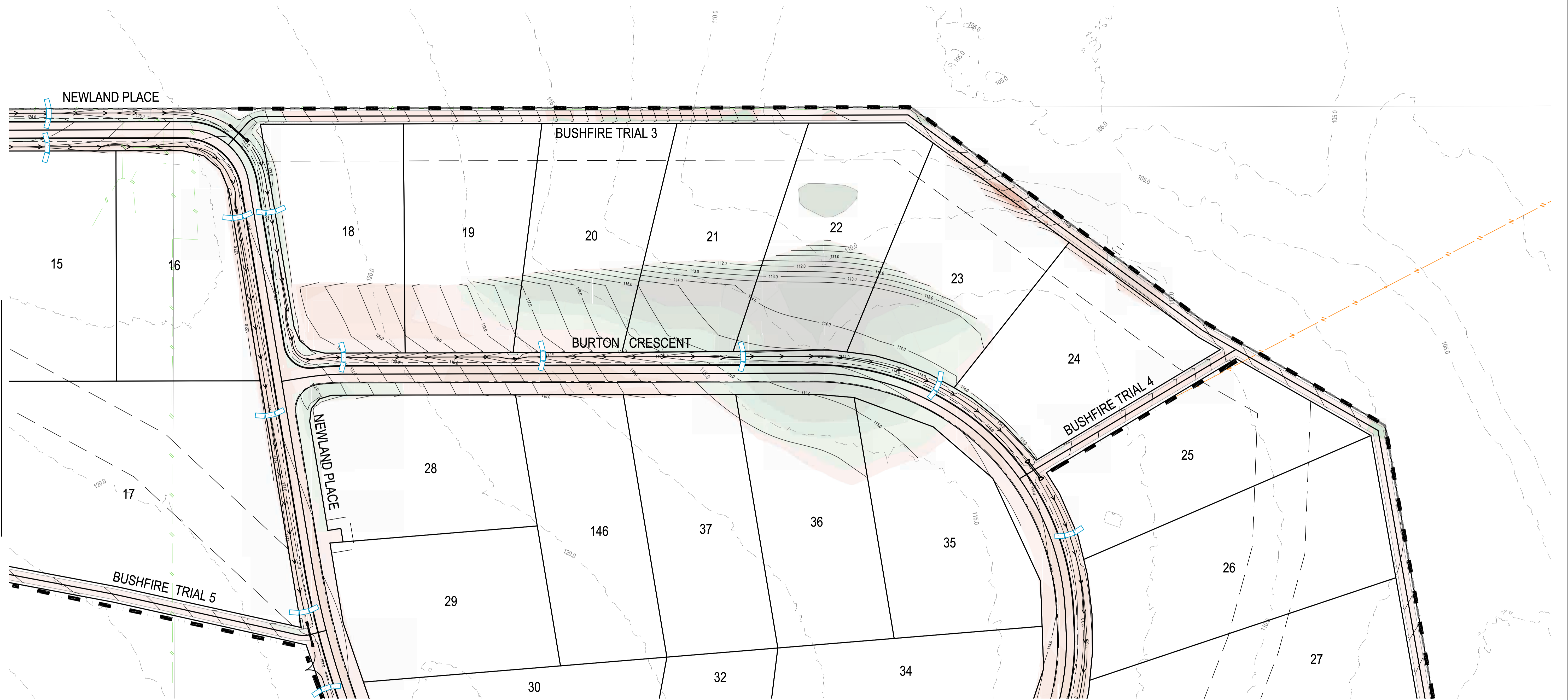
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 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE  
  
 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**EROSION AND SEDIMENT CONTROL PLAN - SHEET 1**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4100	SHEET SIZE A1
		REVISION B

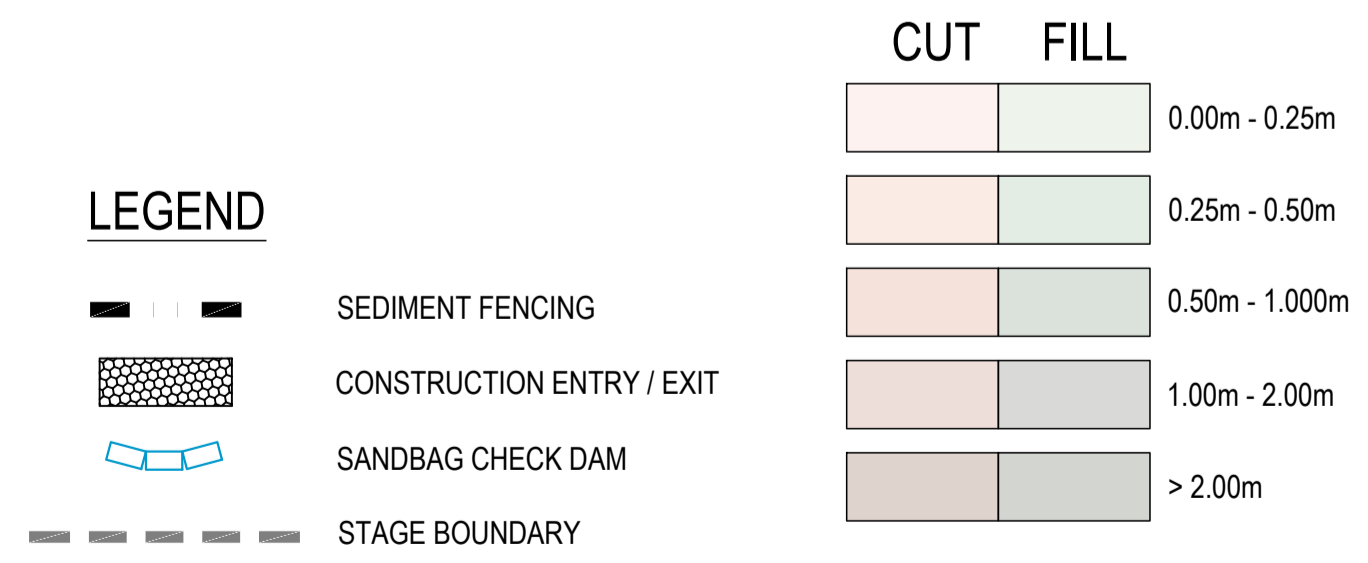
OR CONTINUATION REFER DWG No. C4102



FOR CONTINUATION REFER DWG No. C4100

**LAND CLEARING AND VEGETATION MANAGEMENT:**

- CLEARING EXTENTS IS NOT TO EXCEED A DISTANCE OF 5.0m OUTSIDE OF THE CUT AND FILL HATCH EXTENTS. ALL VEGETATION IS TO BE REMOVED TO FACILITATE THE IDENTIFIED BULK EARTHWORKS.
- LAND CLEARING SHOULD NOT OCCUR UNLESS PRECEDED BY THE INSTALLATION OF ALL NECESSARY DRAINAGE AND EROSION SEDIMENT CONTROL MEASURES.
- WHEREVER PRACTICAL, RETAIN VEGETATION COVER ON SITE. LAND CLEARING IS TO BE STAGED TO MINIMISE THE EXTENT AND DURATION OF SOIL EXPOSURE. TIMING OF WORKS MUST BE CONSIDERED WHEN LAND CLEARING - BULK EARTHWORKS SHOULD BE CARRIED OUT DURING THE 'DRY SEASON' WHEN POSSIBLE.
- RESTRICT MOVEMENT OF CONSTRUCTION EQUIPMENT TO AVOID UNNECESSARY SOIL COMPACTION.
- AS WORKS PROCEED, DISTURBED AREAS SHOULD BE STABILISED, REHABILITATED, AND REVEGETATED AS SOON AS POSSIBLE AFTER EARTHWORKS HAVE BEEN COMPLETED.
- CLEARING TO BE UNDERTAKEN NO MORE THAN 8 WEEKS AHEAD OF EARTHWORKS IN ACCORDANCE WITH TABLE 4.4.7 OF IECA GUIDELINE.
- DISTURBED SOILS SURFACES TO BE STABILISED WITH 70% COVER WITHIN 30 DAYS (TABLE 4.4.7 OF IECA MANUAL).
- REVEGETATION AND LANDSCAPING WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH DOCUMENTED PLANS.



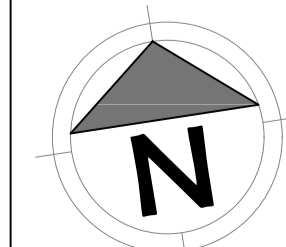
**SERVICES (PUP) LEGEND**

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
B	SEDIMENT FENCE EXTENT UPDATED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE  
 0 7.5 15 22.5 30 37.5m 75m  
 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**EROSION AND SEDIMENT CONTROL PLAN - SHEET 2**

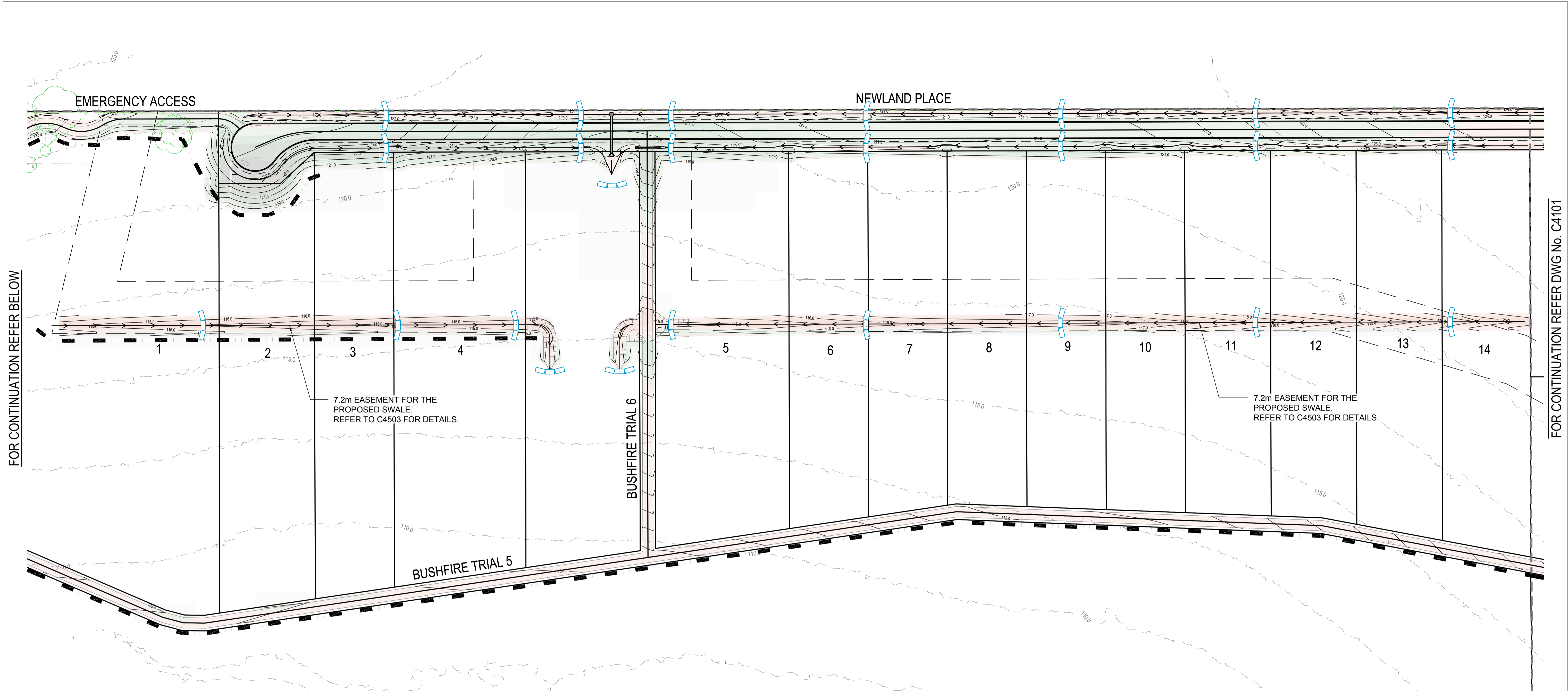
DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1

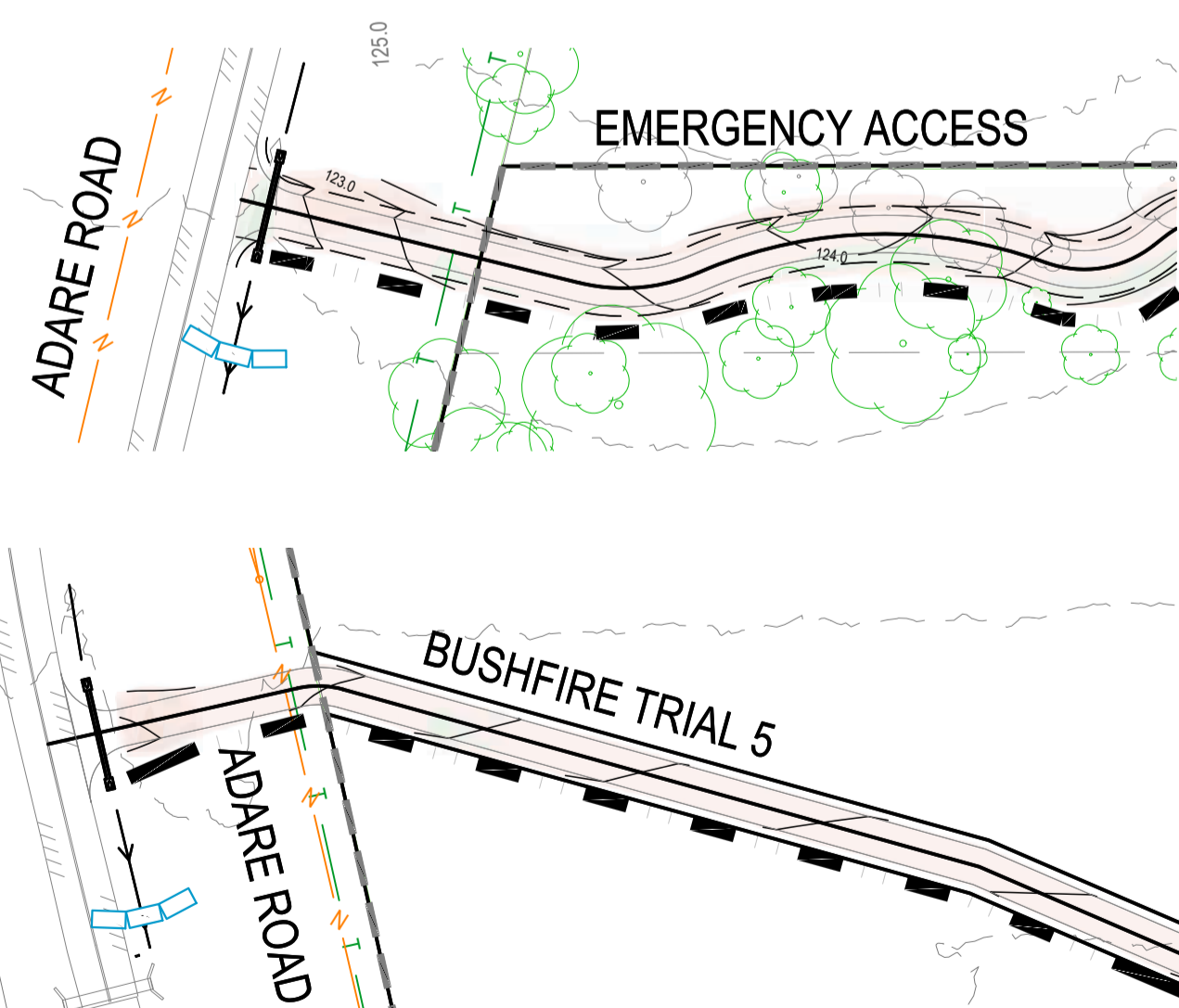
JOB No.	DRAWING No.	REVISION
BR242001	C4101	B





FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4101



FOR CONTINUATION REFER ABOVE

**LEGEND**

	SEDIMENT FENCING
	CONSTRUCTION ENTRY / EXIT
	SANDBAG CHECK DAM
	STAGE BOUNDARY

**CUT FILL**

	0.00m - 0.25m
	0.25m - 0.50m
	0.50m - 1.000m
	1.00m - 2.00m
	> 2.00m

**SERVICES (PUP) LEGEND**

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

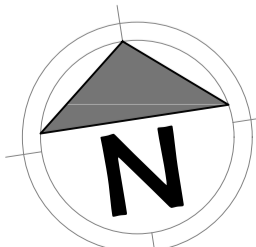
(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

**LAND CLEARING AND VEGETATION MANAGEMENT:**

- CLEARING EXTENTS IS NOT TO EXCEED A DISTANCE OF 5.0m OUTSIDE OF THE CUT AND FILL HATCH EXTENTS. ALL VEGETATION IS TO BE REMOVED TO FACILITATE THE IDENTIFIED BULK EARTHWORKS.
- LAND CLEARING SHOULD NOT OCCUR UNLESS PRECEDED BY THE INSTALLATION OF ALL NECESSARY DRAINAGE AND EROSION SEDIMENT CONTROL MEASURES.
- WHEREVER PRACTICAL, RETAIN VEGETATION COVER ON SITE. LAND CLEARING IS TO BE STAGED TO MINIMISE THE EXTENT AND DURATION OF SOIL EXPOSURE. TIMING OF WORKS MUST BE CONSIDERED WHEN LAND CLEARING - BULK EARTHWORKS SHOULD BE CARRIED OUT DURING THE 'DRY SEASON' WHEN POSSIBLE.
- RESTRICT MOVEMENT OF CONSTRUCTION EQUIPMENT TO AVOID UNNECESSARY SOIL COMPACTION.
- AS WORKS PROCEED, DISTURBED AREAS SHOULD BE STABILISED, REHABILITATED, AND REVEGETATED AS SOON AS POSSIBLE AFTER EARTHWORKS HAVE BEEN COMPLETED.
- CLEARING TO BE UNDERTAKEN NO MORE THAN 8 WEEKS AHEAD OF EARTHWORKS IN ACCORDANCE WITH TABLE 4.4.7 OF IECA GUIDELINE.
- DISTURBED SOILS SURFACES TO BE STABILISED WITH 70% COVER WITHIN 30 DAYS (TABLE 4.4.7 OF IECA MANUAL).
- REVEGETATION AND LANDSCAPING WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH DOCUMENTED PLANS.

**REVISIONS:**

No.	REVISION DESCRIPTION	DRAWN	DATE
D	SEDIMENT FENCE EXTENT UPDATED	MP	26/06/24
C	ISSUE FOR APPROVAL	MA	06/06/24
B	ISSUE FOR APPROVAL	MA	24/05/24
A	ISSUE FOR APPROVAL	MP	15/04/24



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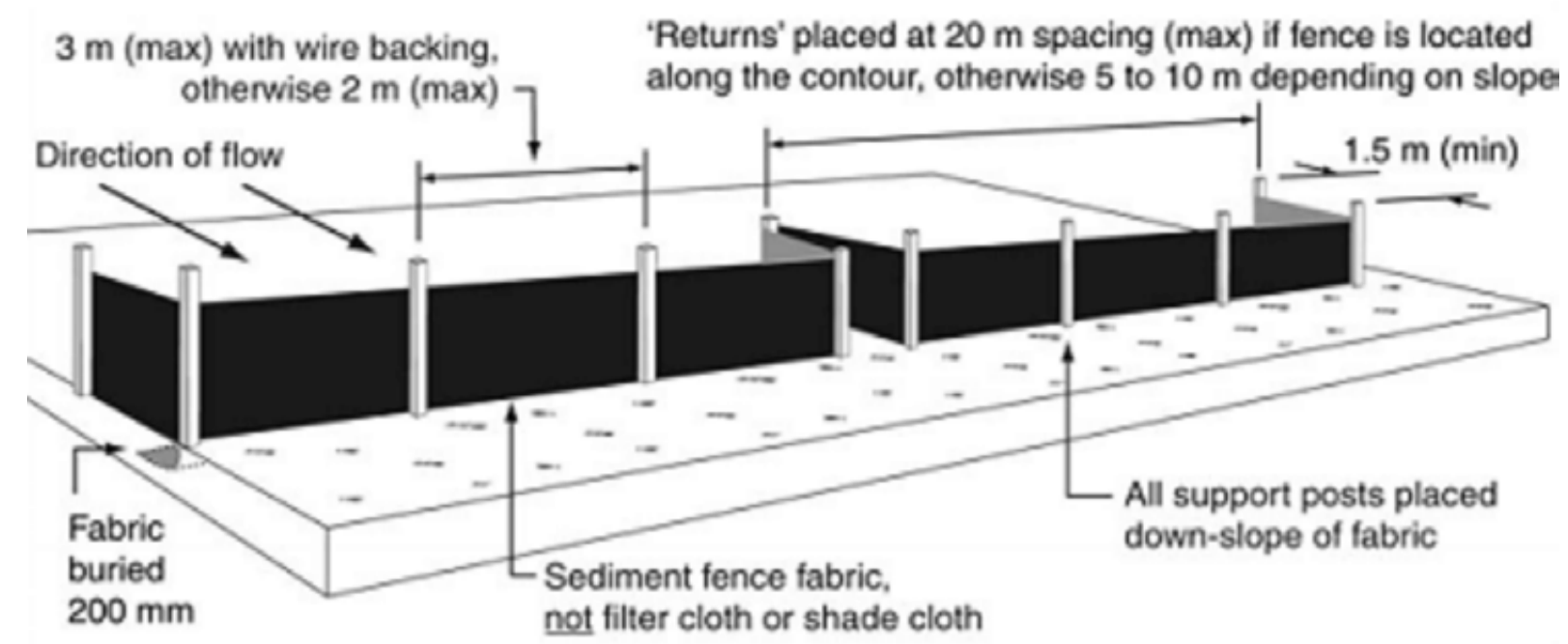
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**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

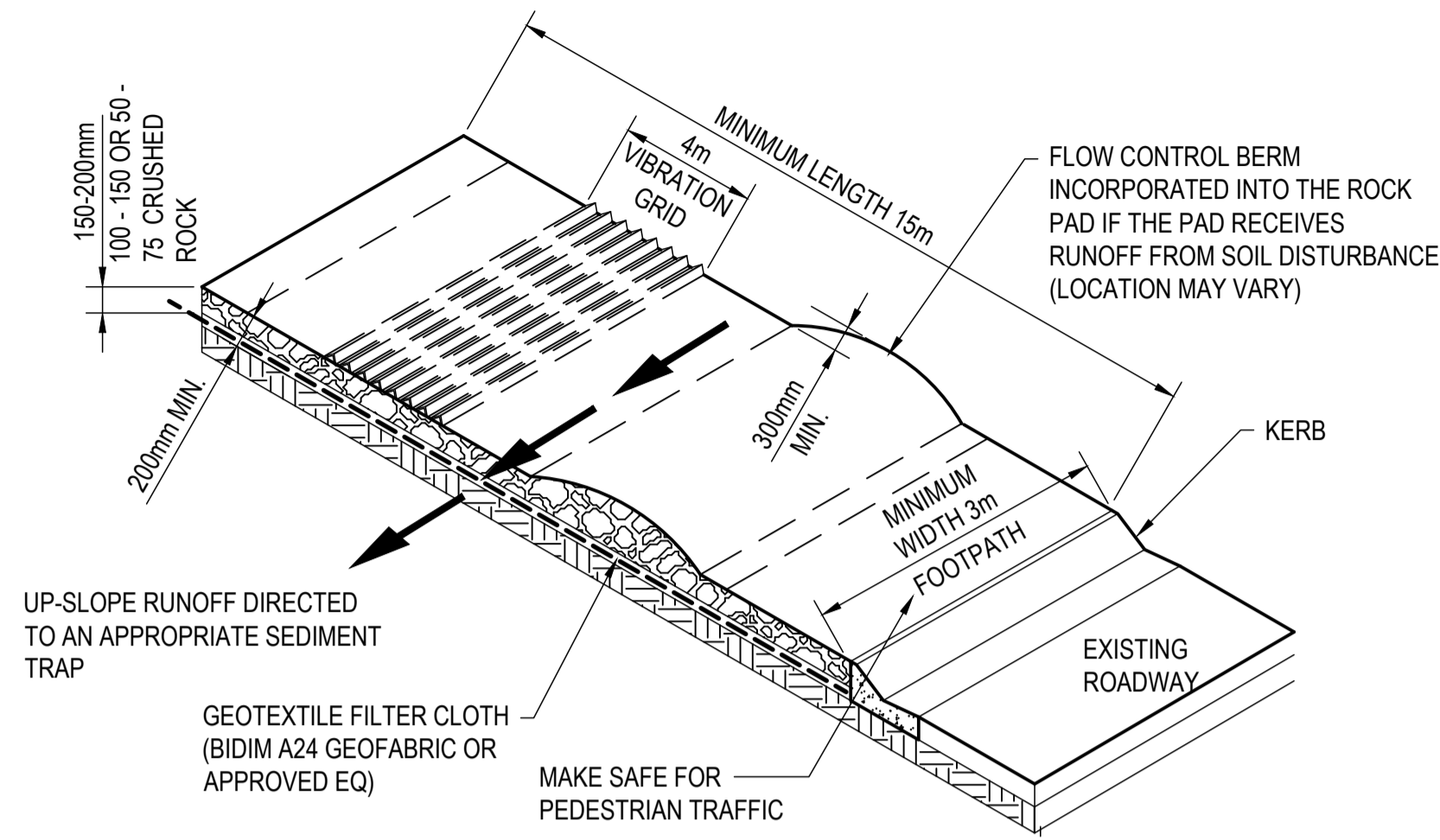
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**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

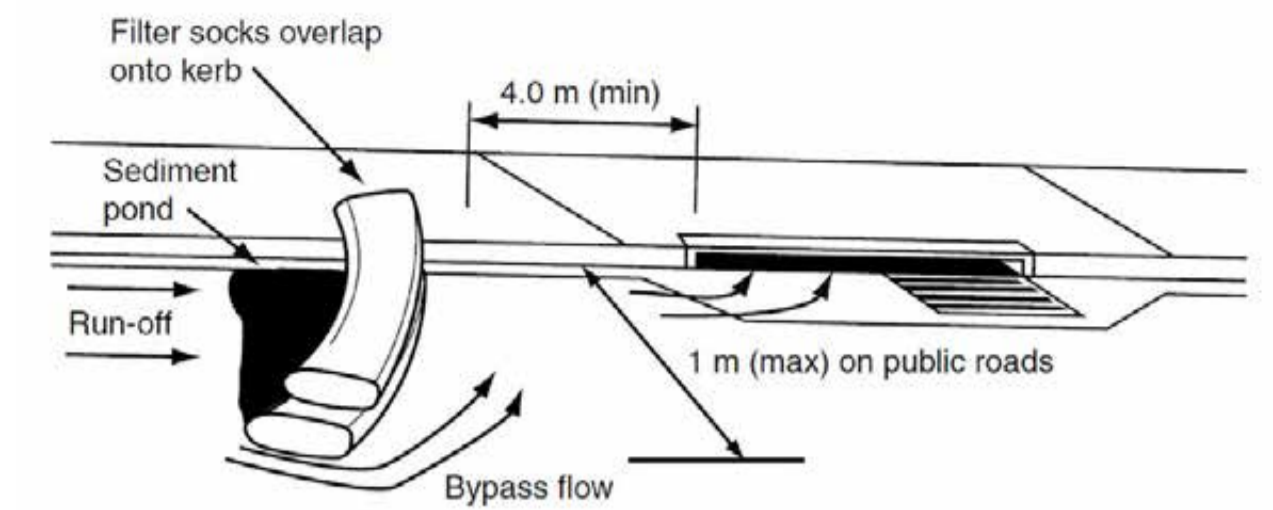
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CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4102	D	



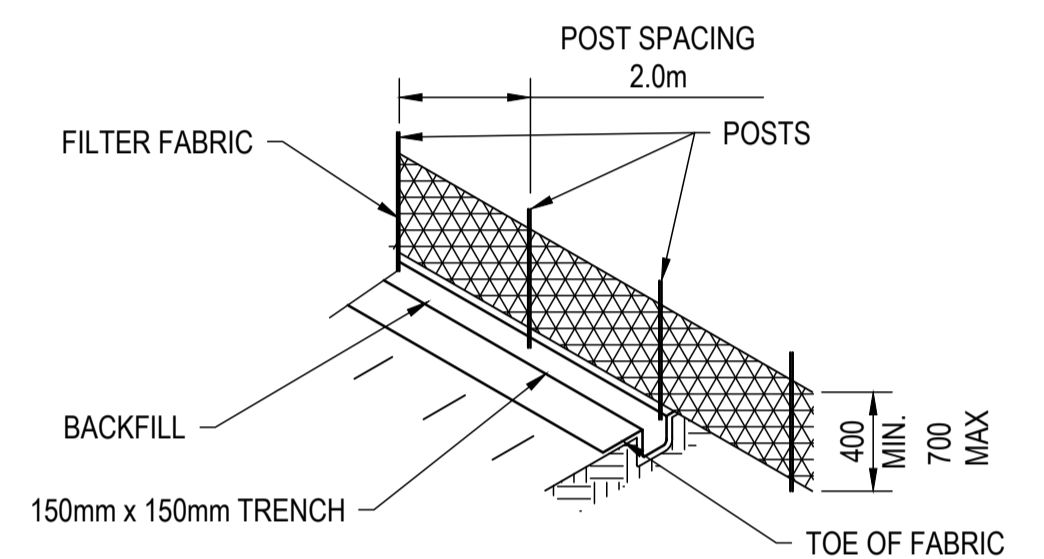
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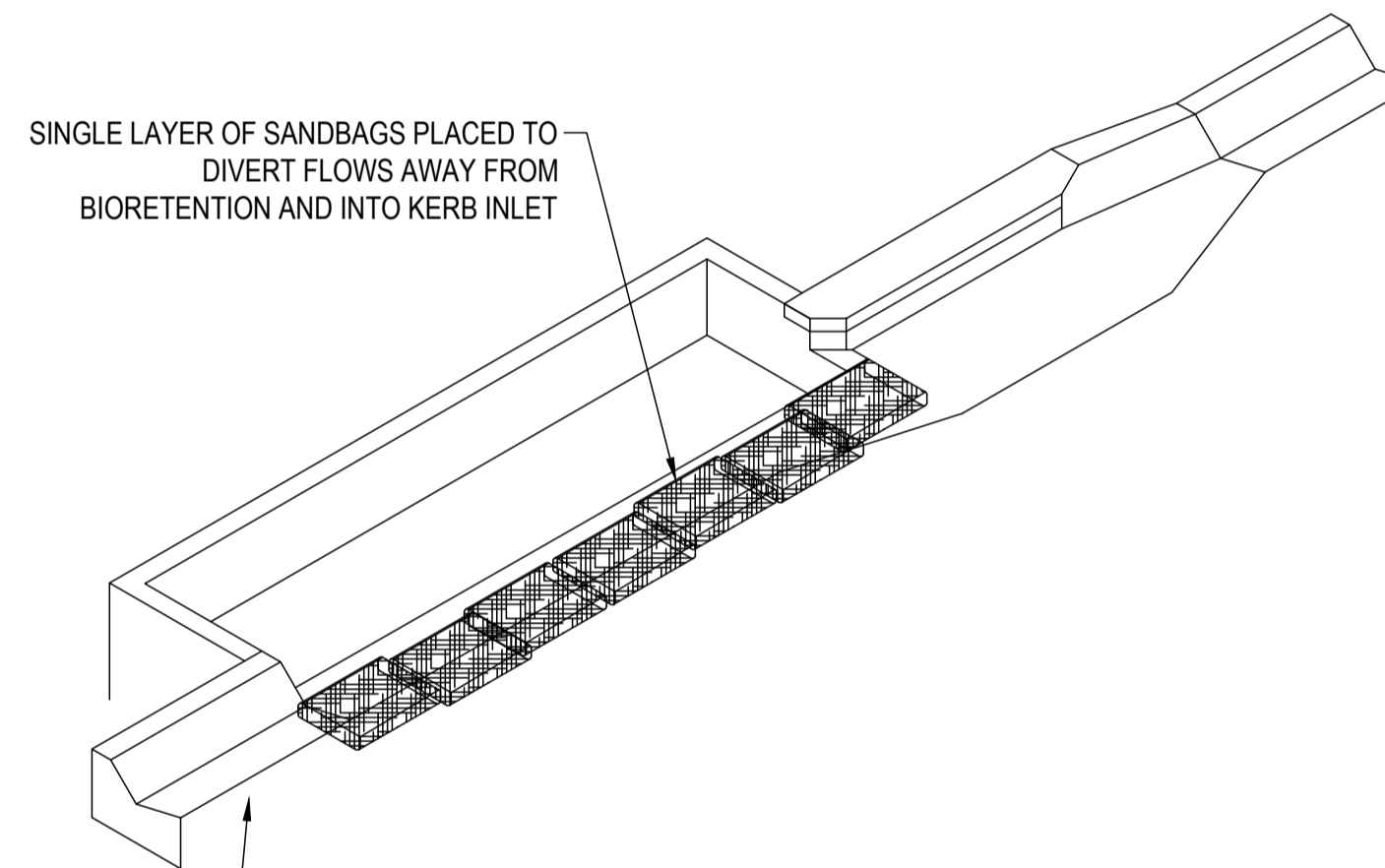
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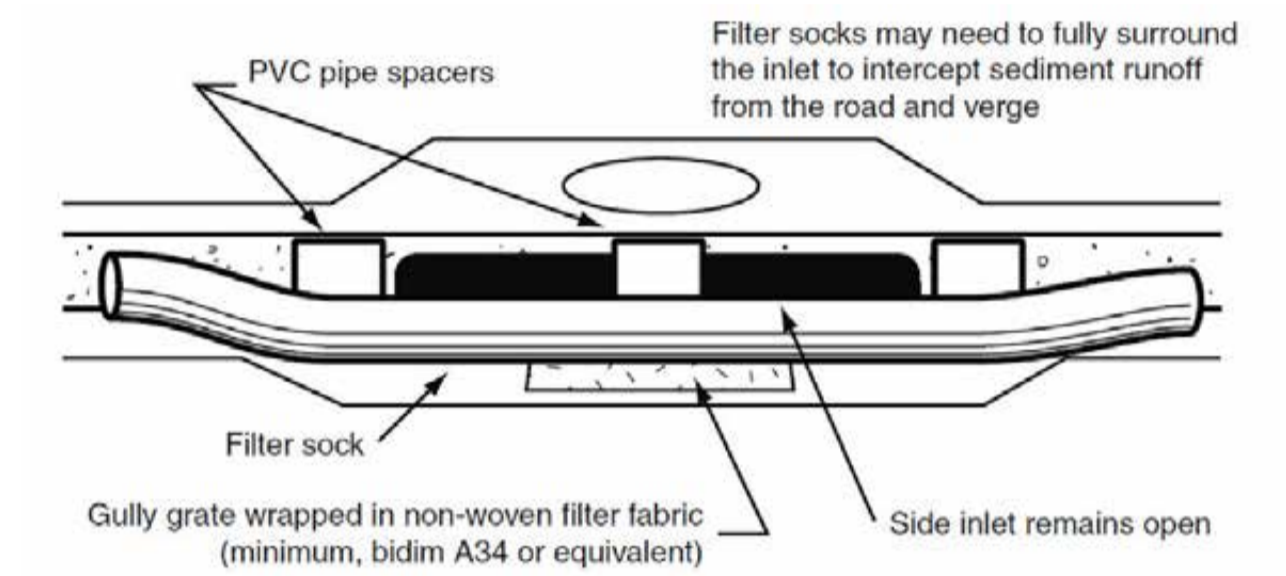
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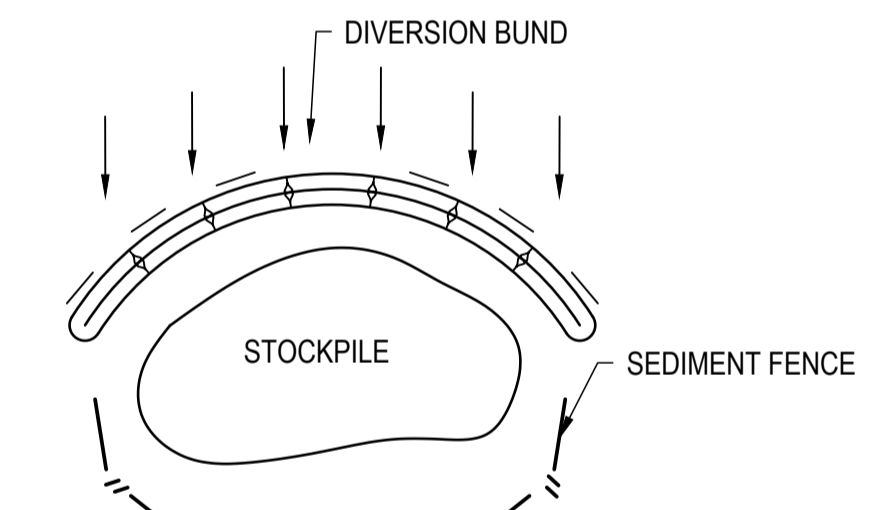
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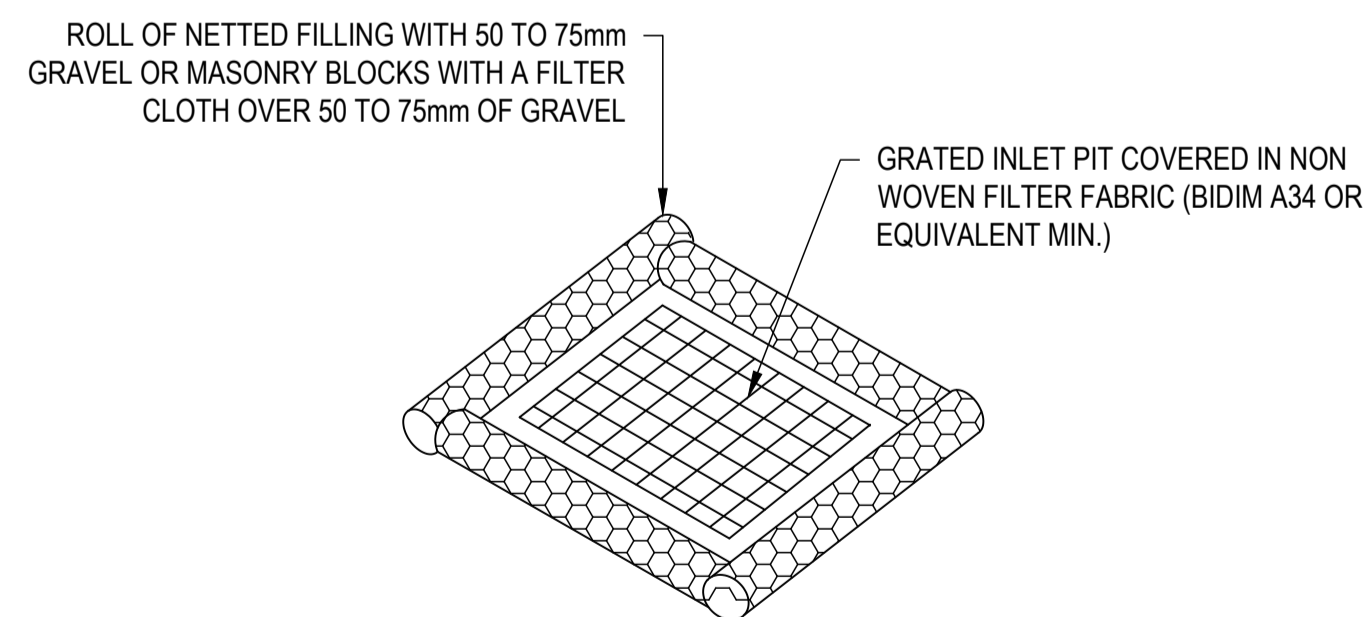
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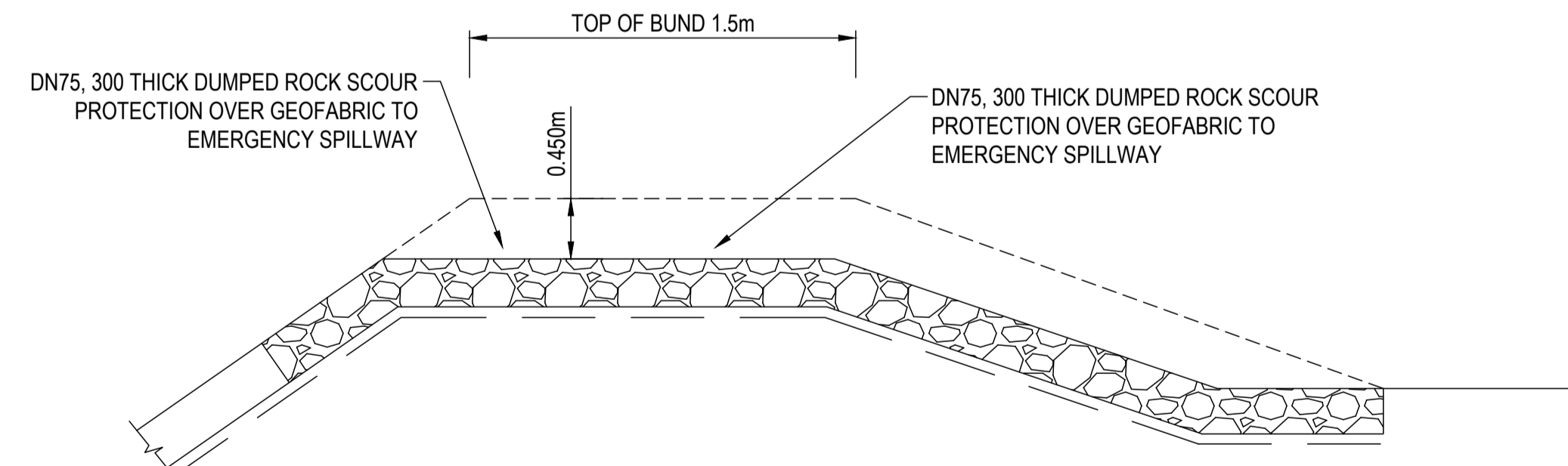
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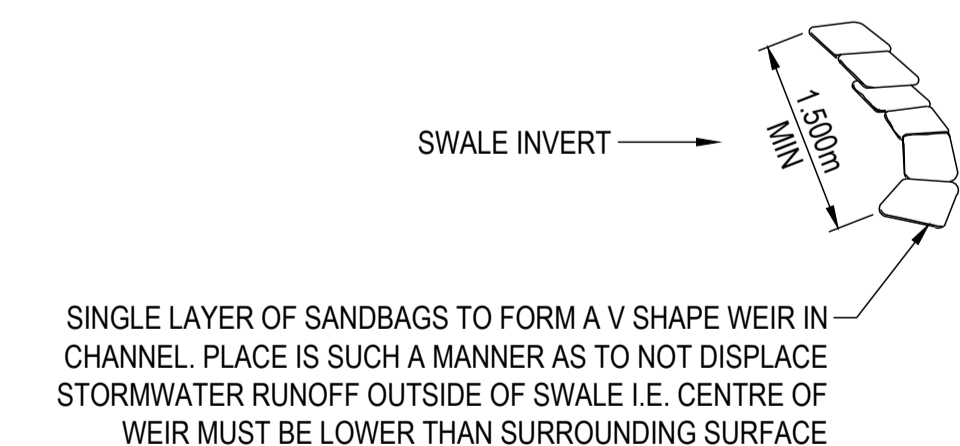
**STOCKPILE SEDIMENT CONTROL**  
NOT TO SCALE



**FIELD INLET SEDIMENT TRAP**  
NOT TO SCALE



**SEDIMENT BASIN EMERGENCY SPILLWAY DETAIL**  
NOT TO SCALE



**TYPICAL SAND BAG CHECK DAM**  
NOT TO SCALE

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**EROSION AND SEDIMENT CONTROL DETAILS**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4190		A

## SEDIMENT FENCE

### MATERIALS

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

### INSTALLATION

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- SECURELY ATTACH THE FABRIC TO THE SUPPORT POSTS USING 25 X 12.5mm STAPLES, OR TIE WIRE AT MAXIMUM 150mm SPACING.
- SECURELY ATTACH THE FABRIC TO THE SUPPORT WIRE/MESH (IF ANY) AT A MAXIMUM SPACING OF 1m.
- 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.
- 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.
- 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

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

## SEDIMENT BASINS

### GENERAL

- SEDIMENT BASIN TO BE LOCATED ABOVE THE 5YR FLOOD LINE. INSTALL SEDIMENT BASINS FOR ALL CATCHMENTS ACROSS THE PROJECT AREA.
- 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).
- 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.
- 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.
- FLOCCULATION REQUIREMENTS TO BE IN ACCORDANCE WITH TABLE B17 OF THE IECA GUIDELINES. IN GENERAL 32kg OF GYPSUM TO BE ADDED TO 100m<sup>3</sup> OF STORED WATER.

### MAINTENANCE

- INSPECT THE SEDIMENT BASIN DURING THE FOLLOWING PERIODS AS STATED WITHIN PAGE B.52 OF THE IECA GUIDELINES:
  - 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.
  - AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS. IF DAMAGE HAS OCCURRED, MAKE THE NECESSARY REPAIRS.
  - AT LEAST WEEKLY DURING THE NOMINATED WET SEASON (IF ANY) OTHERWISE AT LEAST FORTNIGHTLY.
  - PRIOR TO, AND IMMEDIATELY AFTER, PERIODS OF "STOP WORK" OR SITE "SHUTDOWN".
- 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.
- DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
- CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
- 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.
- REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
- SUBMERGED INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH INFLOW EVENT.

### REMOVAL OR CONVERSION OF SEDIMENT BASIN

- 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.
- BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN OR SPILLWAY, INSTALL ALL NECESSARY SHORT-TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT BASIN.
- 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.
- 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:

- 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:
  - APPROPRIATELY PROTECTED FROM WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
  - LOCATED AT LEAST 2m FROM ANY HAZARDOUS AREA, RETAINED VEGETATION, OR CONCENTRATED DRAINAGE LINE.
  - LOCATED UP-SLOPE OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM.
- PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 28 DAYS.
- 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.
- 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.
- 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 1500m<sup>2</sup>.

## 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).

### INSTALLATION

- 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 FOR ASSISTANCE.
- 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
- 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.
- ENSURE THAT THE INSTALLATION OF THE VIBRATION GRID INCLUDES ADEQUATE SEDIMENT STORAGE VOLUME UNDER THE GRID. WHERE NECESSARY, INSTALL SUITABLE PRECAST SEDIMENT COLLECTION CHAMBERS.
- 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.
- 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
- 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.
- 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.

### MAINTENANCE

- INSPECT VIBRATION GRID PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF-PRODUCING RAINFALL, OR OTHERWISE AT FORTNIGHTLY INTERVALS.
- 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.
- 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.
- 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.
- ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.
- DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

## CHECK DAM SEDIMENT TRAPS

### INSTALLATION

- 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.
- 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.
- 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.
- 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.
- 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

- INSPECT EACH CHECK DAM AND THE DRAINAGE CHANNEL AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING RAINFALL.
- 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.
- CHECK FOR DISPLACEMENT OF THE CHECK DAMS.
- 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.
- DE-SILT SEDIMENT TRAP IF THE SEDIMENT LEVEL EXCEEDS 1/3 THE CREST HEIGHT.
- DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

## KERB INLET SEDIMENT TRAPS

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

### MATERIALS

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

### INSTALLATION

- 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.

- ENSURE THE SOCKS ARE PLACED INDIVIDUALLY OR COLLECTIVELY (AS A SINGLE SEDIMENT TRAP) SUCH THAT:
  - LEAKAGE AROUND OR UNDER THE SOCKS IS MINIMISED.
  - ADJOINING SOCKS ARE TIGHTLY BUTTED OR OVERLAPPED AT LEAST 450mm.
  - THE SURFACE AREA OF POTENTIAL WATER PONDING UP-SLOPE OF EACH SEDIMENT TRAP IS MAXIMISED.
  - TO THE MAXIMUM DEGREE PRACTICAL, ALL SEDIMENT-LADEN WATER WILL PASS THROUGH THE FORMED POND BEFORE FLOWING OVER THE DOWN-SLOPE END OF THE SEDIMENT TRAP.

- WHEN PLACED ACROSS THE INVERT OF MINOR DRAINS, ENSURE THE SOCKS ARE PLACED SUCH THAT:
  - THE CREST OF THE DOWNSTREAM SOCK IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM SOCK (IF ANY);
  - EACH SOCK EXTENDS UP THE CHANNEL BANKS SUCH THAT THE CREST OF THE SOCK AT ITS LOWEST POINT IS LOWER THAN GROUND LEVEL AT EITHER END OF THE SOCK.

- 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

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

### REMOVAL

- 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.

- 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.

- DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

- 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.

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



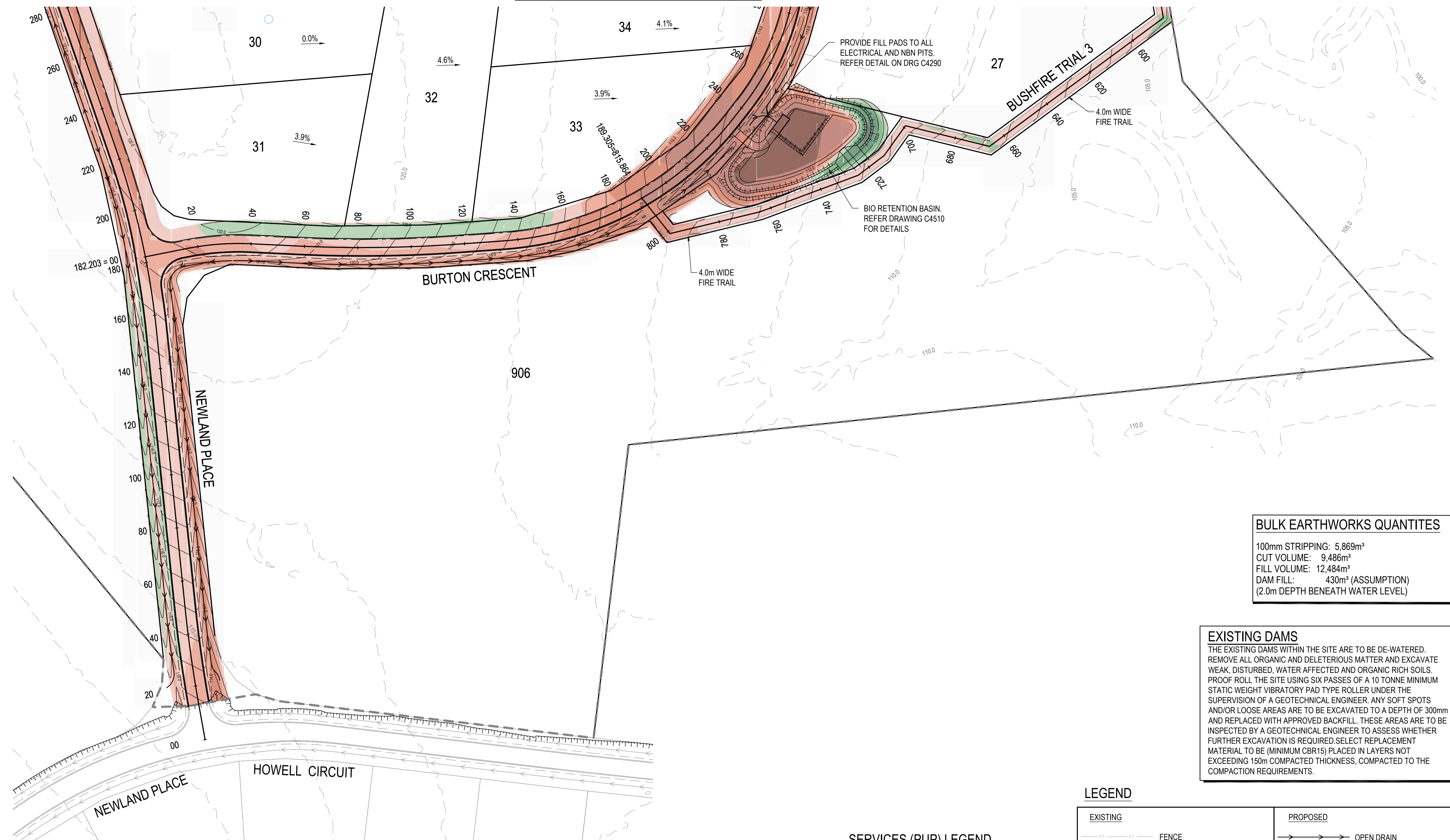
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<b>PARK LAKE ADARE PTY LTD</b> PO BOX 4107 SPRINGFIELD QLD 4300	
SCALE	

PROJECT TITLE	
<b>PROPOSED SUBDIVISION</b> 174 ADARE ROAD, ADARE, QLD 4343 STAGES 4 AND 5	
DRAWING TITLE	<b>EROSION AND SEDIMENT CONTROL NOTES</b>

DRAWING STATUS			
<b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
DRAFTSPERSON	DESIGNER	SIGNATURE	
MP	MP		
DATE	SCALE	SHEET SIZE	REVISION
15/04/24	AS SHOWN	A1	
JOB No:	DRAWING No:		
BR242001	C4191		A

FOR CONTINUATION REFER DWG No. C4201



BULK EARTHWORKS QUANTITIES	
100mm STRIPPING:	5,869m³
CUT VOLUME:	9,486m³
FILL VOLUME:	12,484m³
DAM FILL:	430m³ (ASSUMPTION)
(2.0m DEPTH BENEATH WATER LEVEL)	

**EXISTING DAMS**  
 THE EXISTING DAMS WITHIN THE SITE ARE TO BE DE-WATERED. REMOVE ALL ORGANIC AND DELETERIOUS MATTER AND EXCAVATE WEAK, DISTURBED, WATER AFFECTED AND ORGANIC RICH SOILS. PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. ANY SOFT SPOTS AND/OR LOOSE AREAS ARE TO BE EXCAVATED TO A DEPTH OF 300mm AND REPLACED WITH APPROVED BACKFILL. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED. SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

**NOTE**

- REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
- DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

**LEVEL 1 COMPACTION**  
 ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.  
 ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.  
 (NOTE: TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

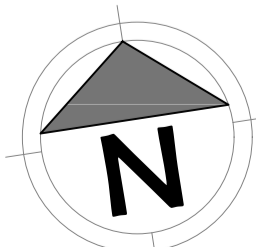
CUT FILL	
	0.00m - 0.25m
	0.25m - 0.50m
	0.50m - 1.000m
	1.00m - 2.00m
	> 2.00m

SERVICES (PUP) LEGEND	
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	E
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	▽
GAS	G(*)
WATER MAIN	W(*)

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND	
<b>EXISTING</b>	<b>PROPOSED</b>
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
C	ELECTRICAL PADS ADDED	MP	26/06/24
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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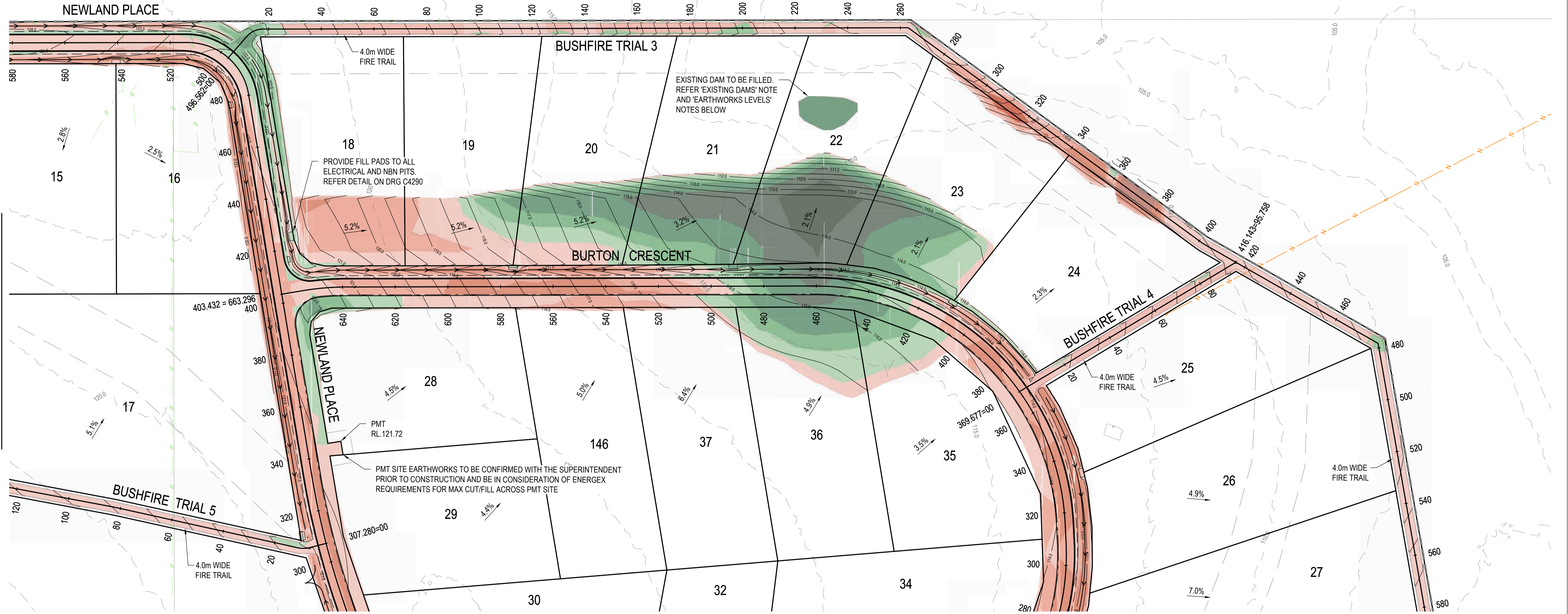
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 SCALE  
  
 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**BULK EARTHWORKS PLAN**  
 SHEET 1

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4200		C

OR CONTINUATION REFER DWG No. C4202

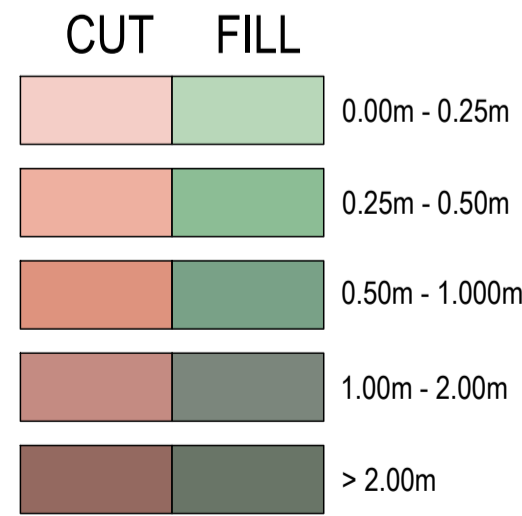


FOR CONTINUATION REFER DWG No. C4200

**NOTE**

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- DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

**LEVEL 1 COMPACTION**  
 ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.  
 ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.  
 (NOTE: TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)



**SERVICES (PUP) LEGEND**

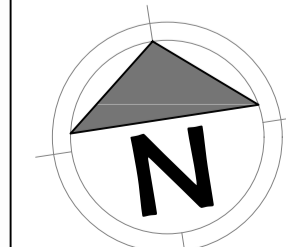
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DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	O
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	▽
GAS	G(*)
WATER MAIN	W(*)

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

**LEGEND**

EXISTING	PROPOSED
--- FENCE	→ OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- MOUNTABLE KERB TYPE M4	--- MOUNTABLE KERB TYPE M6
--- MOUNTABLE KERB TYPE M6	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	--- STAGE BOUNDARY
○ TREE TPZ	

No.	REVISION DESCRIPTION	DRAWN	DATE
B	ELECTRICAL PADS ADDED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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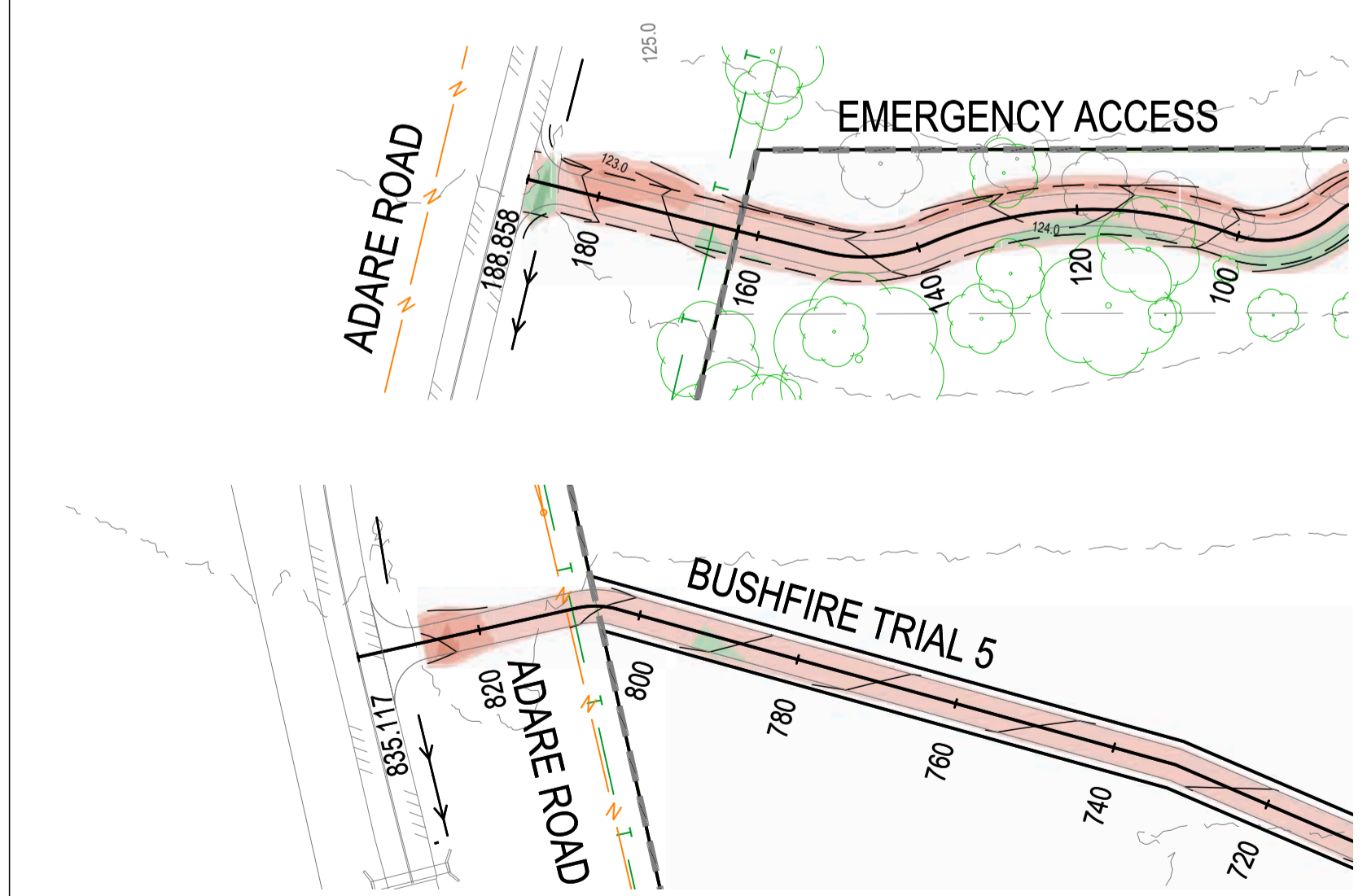
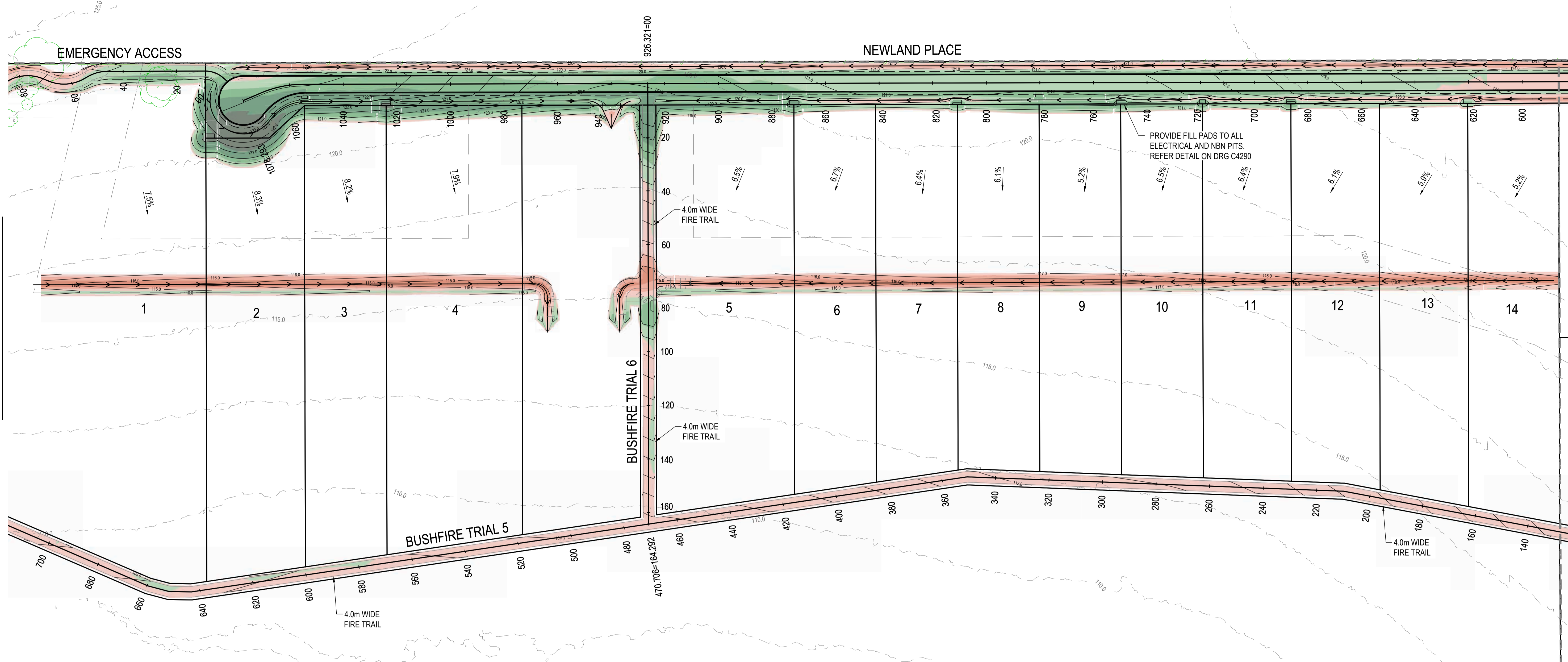
**CLIENT**  
**PARK LAKE ADARE PTY LTD**  
 PO BOX 4107 SPRINGFIELD QLD 4300  
**SCALE**  
 0 7.5 15 22.5 30 37.5m 75m  
 SCALE 1:750

**PROJECT TITLE**  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
**DRAWING TITLE**  
**BULK EARTHWORKS PLAN SHEET 2**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4201	REVISION B	

FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4201



FOR CONTINUATION REFER ABOVE

**NOTE**

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- DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

**LEVEL 1 COMPACTION**

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.

ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.

(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	DEPTH
[Red]	[Green]	0.00m - 0.25m
[Orange]	[Light Green]	0.25m - 0.50m
[Yellow]	[Medium Green]	0.50m - 1.00m
[Brown]	[Dark Green]	1.00m - 2.00m
[Dark Brown]	[Very Dark Green]	> 2.00m

**SERVICES (PUP) LEGEND**

SERVICE	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	[Symbol]
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	[Symbol]
GAS	G(*)
WATER MAIN	W(*)

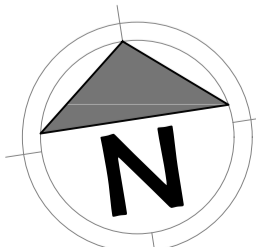
**LEGEND**

EXISTING	PROPOSED
[Symbol]	FENCE
[Symbol]	OPEN DRAIN
[Symbol]	MOUNTABLE KERB TYPE M4
[Symbol]	MOUNTABLE KERB TYPE M6
[Symbol]	CONTOUR (0.5m)
[Symbol]	CONTOUR (1.0m)
[Symbol]	ROAD EDGE BITUMEN
[Symbol]	ROAD SHOULDER
[Symbol]	TREE TO REMAIN
[Symbol]	TREE TO BE REMOVED
[Symbol]	TREE TPZ
[Symbol]	OPEN DRAIN
[Symbol]	MOUNTABLE KERB TYPE M4
[Symbol]	MOUNTABLE KERB TYPE M6
[Symbol]	CONTOUR (0.5m)
[Symbol]	CONTOUR (1.0m)
[Symbol]	ROAD EDGE BITUMEN
[Symbol]	ROAD SHOULDER
[Symbol]	DRAINAGE
[Symbol]	STAGE BOUNDARY

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

**REVISIONS:**

No.	REVISION DESCRIPTION	DRAWN	DATE
B	ELECTRICAL PADS ADDED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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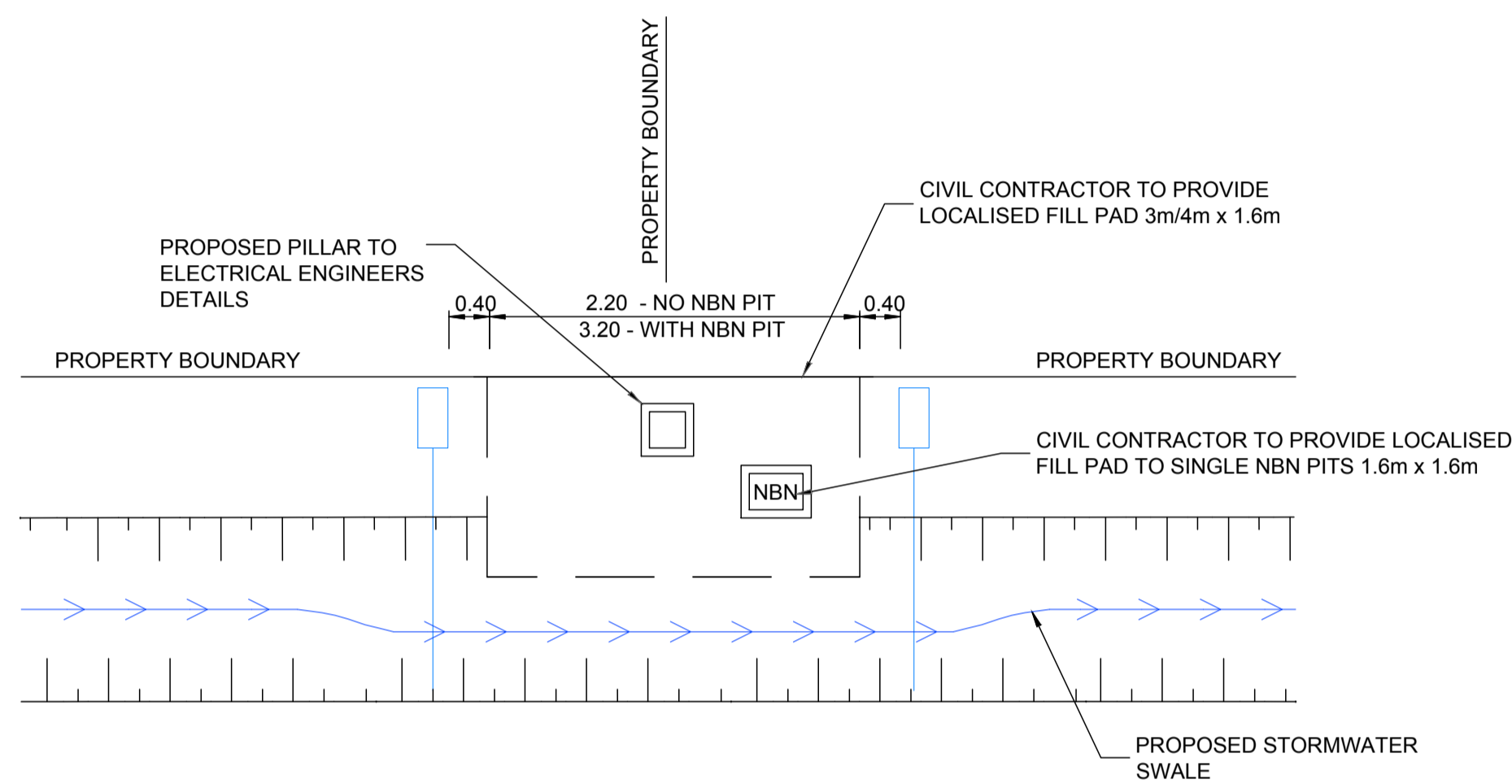
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PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

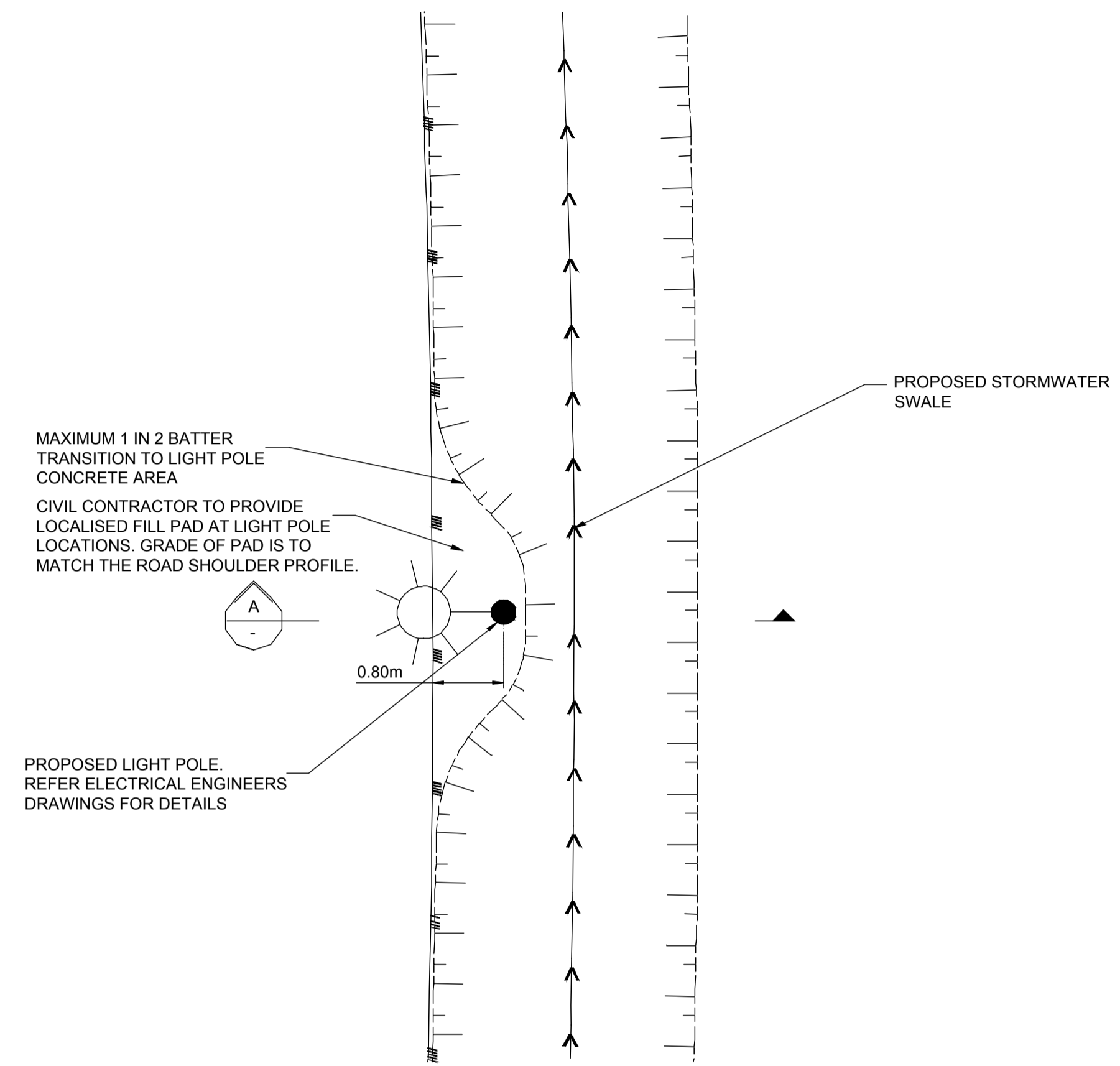
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**BULK EARTHWORKS PLAN SHEET 3**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

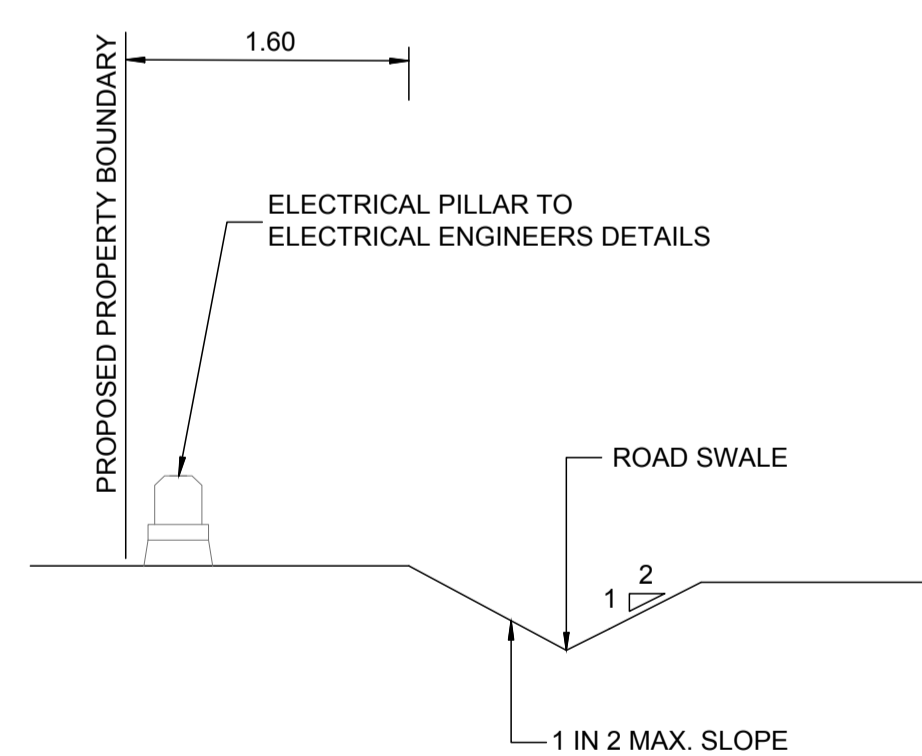
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CK	MP	[Signature]	
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4202	B	



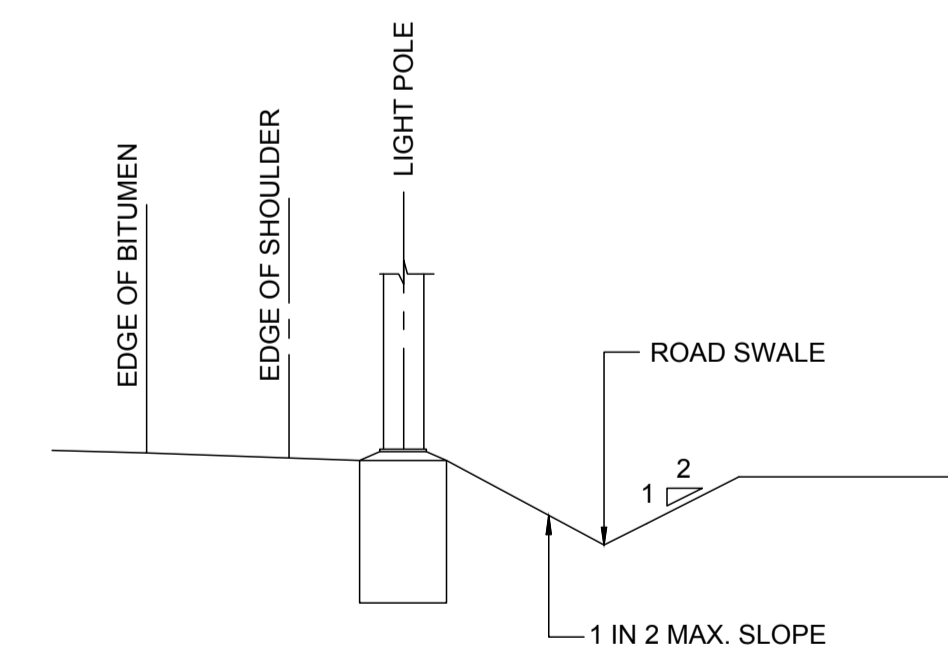
**TYPICAL ELECTRICAL PILLAR PROTECTION DETAIL**  
SCALE 1:50



**TYPICAL LIGHT POLE PROTECTION DETAIL**  
SCALE 1:50



**B TYPICAL ELECTRICAL PILLAR SECTION**  
SCALE 1:50



**TYPICAL LIGHT POLE SECTION A**  
SCALE 1:50

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
C	ISSUED FOR CONTRACT	MKP	10/07/24
B	STONE PITCHING REMOVED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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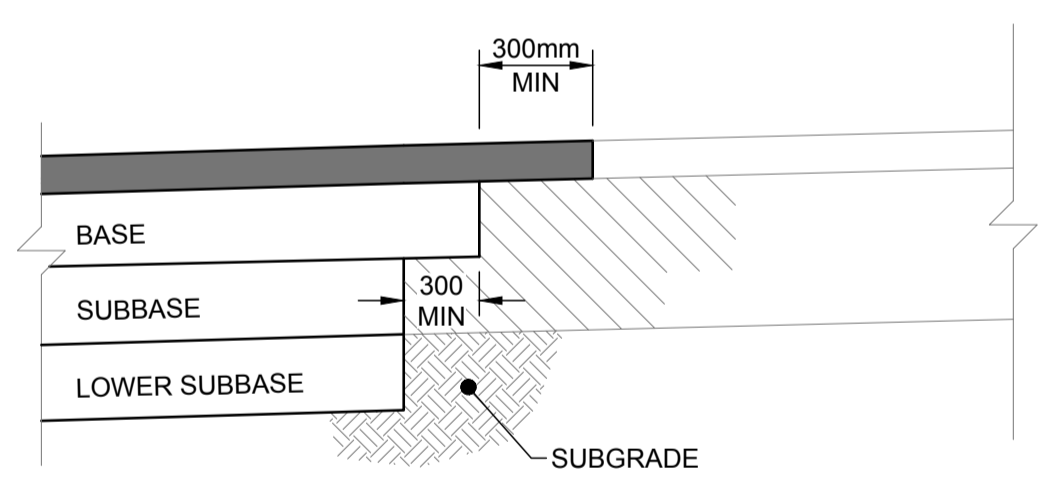
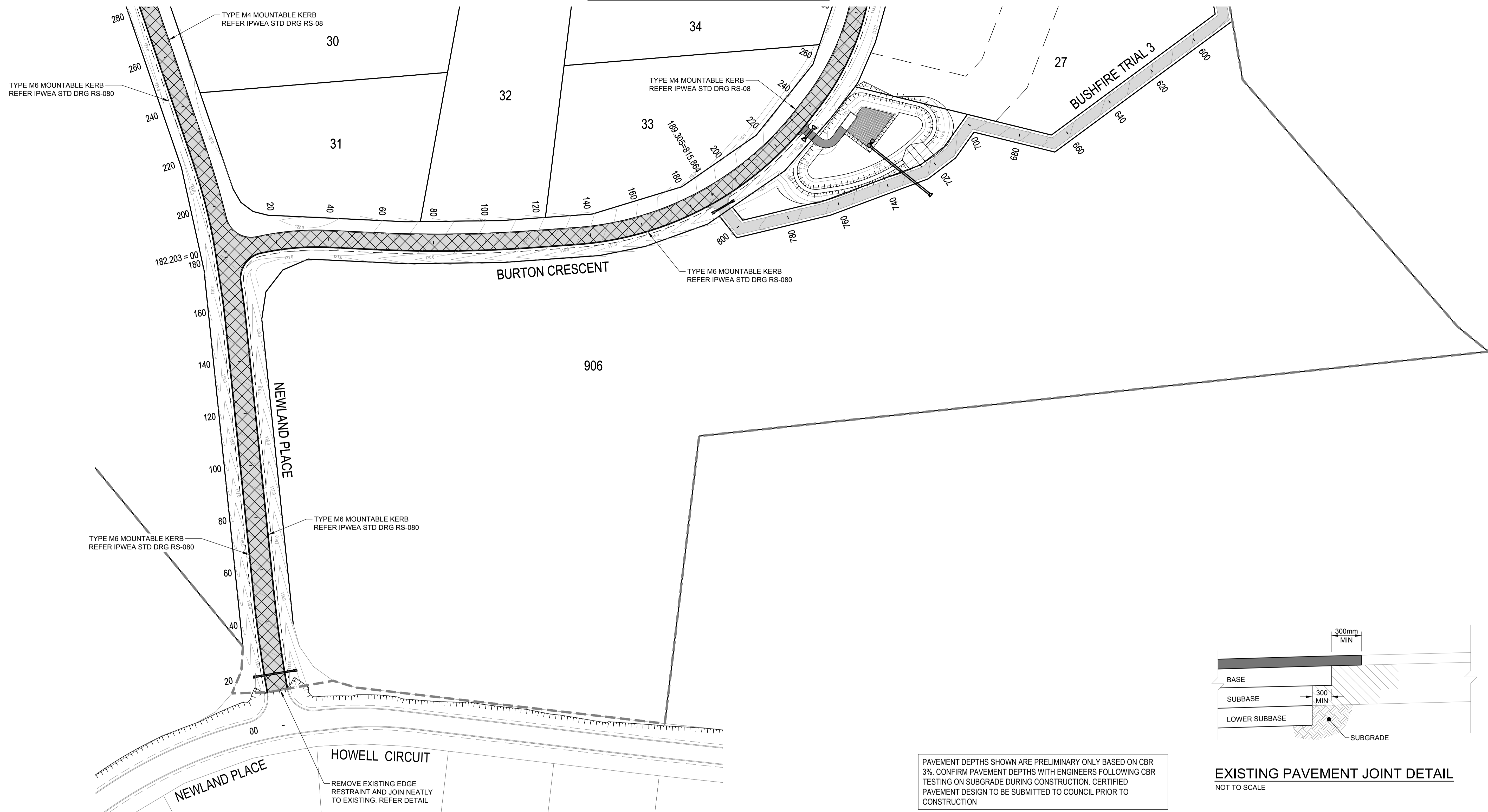
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SCALE  
0 1 2 3 4 5m  
SCALE 1:50

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**BULK EARTHWORKS DETAILS**

DRAWING STATUS			
<b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4290	C	

FOR CONTINUATION REFER DWG No. C4301



**EXISTING PAVEMENT JOINT DETAIL**  
NOT TO SCALE

PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY BASED ON CBR 3%. CONFIRM PAVEMENT DEPTHS WITH ENGINEERS FOLLOWING CBR TESTING ON SUBGRADE DURING CONSTRUCTION. CERTIFIED PAVEMENT DESIGN TO BE SUBMITTED TO COUNCIL PRIOR TO CONSTRUCTION

**LEGEND**

EXISTING	PROPOSED
FENCE	MOUNTABLE KERB TYPE M4
OPEN DRAIN	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M4	CONTOUR (0.5m)
MOUNTABLE KERB TYPE M6	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

**SURFACE TREATMENT LEGEND:**

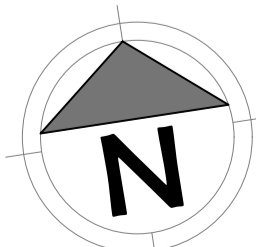
	PAVEMENT 1 - ACCESS STREET - 1x10 <sup>5</sup> ASPHALT - 30mm @ DG10, CLASS 320 BITUMEN BINDER WITH EMULSION PRIME 150mm THICK BASE COURSE - TYPE 2.1 (CBR 80) BINDER WITH EMULSION PRIME 150mm THICK SUB-BASE - TYPE 2.3 (CBR 45) TOTAL PAVEMENT DEPTH = 330mm
	HEAVY DUTY DRIVEWAY REFER IPWEA STD DRG RS-051
	BUSHFIRE TRAIL REFER DRGS C4700-C1716 FOR DETAILS.

**PAVEMENT NOTES**

- FOR ANY PARTIALLY BUILT ASPHALT PAVEMENT, THE PAVEMENT SHOULD NOT BE LOADED (BY EITHER NON-ESSENTIAL CONSTRUCTION OR GENERAL TRAFFIC) UNTIL THE PARTIALLY BUILT ASPHALT PAVEMENT IS  $\leq$  60mm BELOW THE FINISHED SURFACE LEVEL.
- GENERAL TRAFFIC USE OF A PARTIALLY BUILT ASPHALT PAVEMENT SHOULD BE LIMITED, AS PROLONGED USE WILL RESULT IN A CONSIDERABLY REDUCED PAVEMENT LIFE.
- THE PROPOSED WORK SHOULD BE CUT IN TO EXPOSE THE EDGE OF THE EXISTING PAVEMENT AND NOT SIMPLY BUTTED AGAINST THE EDGE OF THE EXISTING SURFACE.

REVISIONS:

No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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Telephone +61 7 3021 6600  
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P.19/04/24 - AK

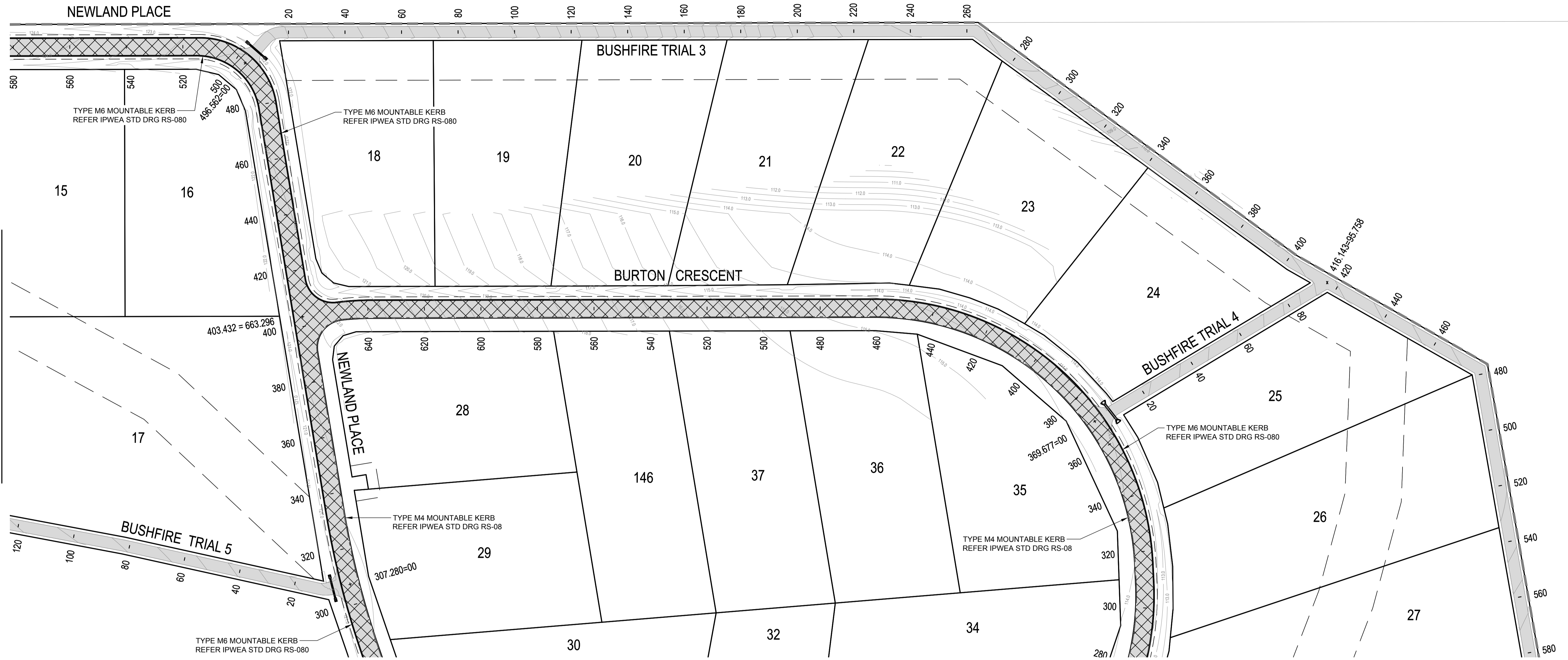
CLIENT  
**PARK LAKE ADARE PTY LTD**  
PO BOX 4107 SPRINGFIELD QLD 4300  
SCALE  
0 7.5 15 22.5 30 37.5m 75m  
SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**PAVEMENT PLAN SHEET 1**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4300	REVISION A	



OR CONTINUATION REFER DWG No. C4302



FOR CONTINUATION REFER DWG No. C4300

**LEGEND**

EXISTING	PROPOSED
FENCE	MOUNTABLE KERB TYPE M4
OPEN DRAIN	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M4	CONTOUR (0.5m)
MOUNTABLE KERB TYPE M6	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

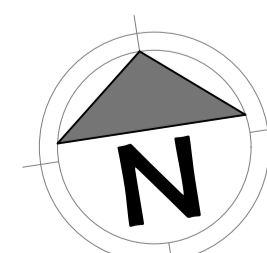
**SURFACE TREATMENT LEGEND:**

	PAVEMENT 1 - ACCESS STREET - 1x10 <sup>5</sup> ASPHALT - 30mm @ DG10, CLASS 320 BITUMEN BINDER WITH EMULSION PRIME 150mm THICK BASE COURSE - TYPE 2.1 (CBR 80) BINDER WITH EMULSION PRIME 150mm THICK SUB-BASE - TYPE 2.3 (CBR 45) TOTAL PAVEMENT DEPTH = 330mm
	HEAVY DUTY DRIVEWAY REFER IPWEA STD DRG RS-051
	BUSHFIRE TRAIL REFER DRGS C4700-C1716 FOR DETAILS.

**PAVEMENT NOTES**

- FOR ANY PARTIALLY BUILT ASPHALT PAVEMENT, THE PAVEMENT SHOULD NOT BE LOADED (BY EITHER NON-ESSENTIAL CONSTRUCTION OR GENERAL TRAFFIC) UNTIL THE PARTIALLY BUILT ASPHALT PAVEMENT IS ≤ 60mm BELOW THE FINISHED SURFACE LEVEL.
- GENERAL TRAFFIC USE OF A PARTIALLY BUILT ASPHALT PAVEMENT SHOULD BE LIMITED, AS PROLONGED USE WILL RESULT IN A CONSIDERABLY REDUCED PAVEMENT LIFE.
- THE PROPOSED WORK SHOULD BE CUT IN TO EXPOSE THE EDGE OF THE EXISTING PAVEMENT AND NOT SIMPLY BUTTED AGAINST THE EDGE OF THE EXISTING SURFACE.

REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL



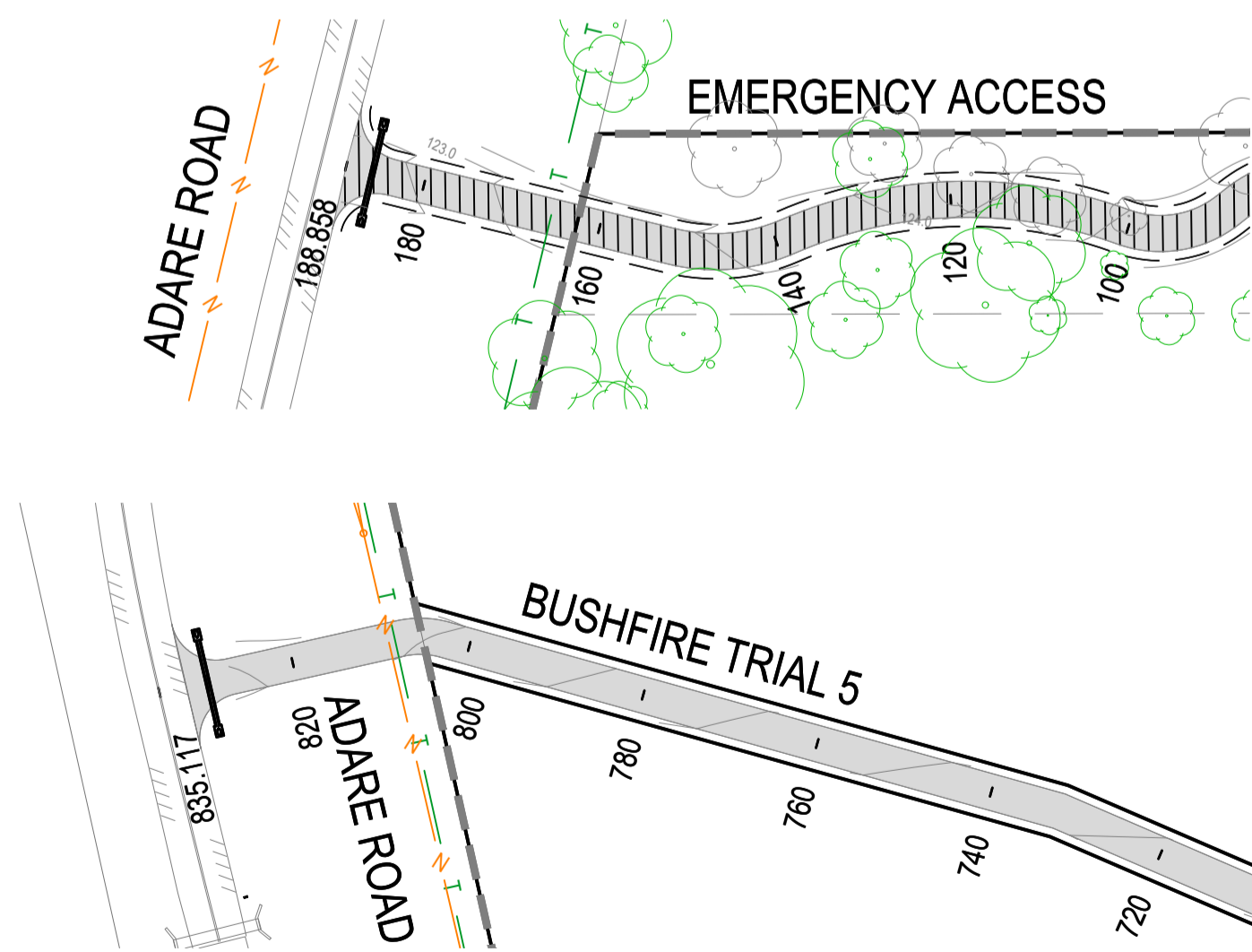
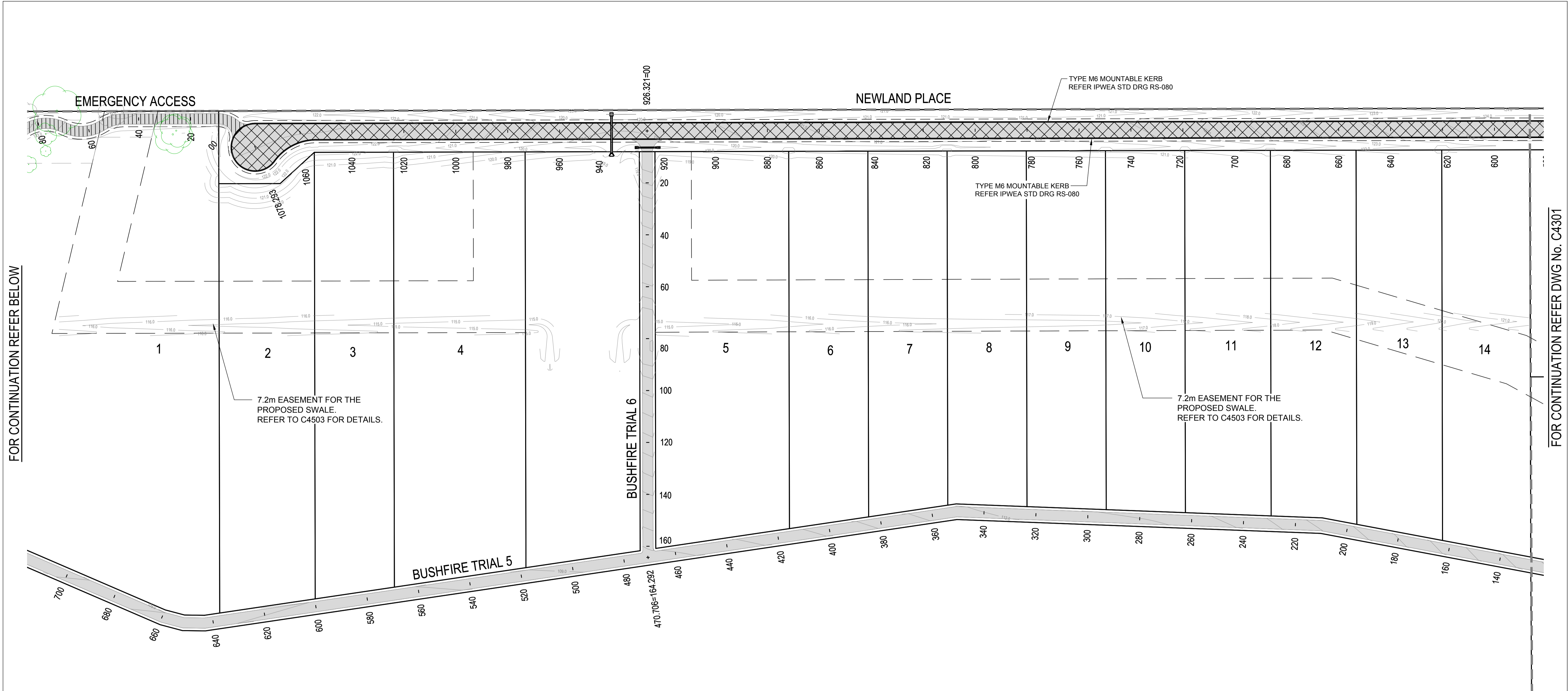
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 Telephone +61 7 3021 6600  
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 IF IN DOUBT ASK

CLIENT  
**PARK LAKE ADARE PTY LTD**  
 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE  
  
 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**PAVEMENT PLAN SHEET 2**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4301		A



**LEGEND**

EXISTING	PROPOSED
FENCE	ROAD EDGE BITUMEN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
ROAD EDGE BITUMEN	ROAD EDGE BITUMEN
TREE TO REMAIN	ROAD SHOULDER
TREE TO BE REMOVED	DRAINAGE

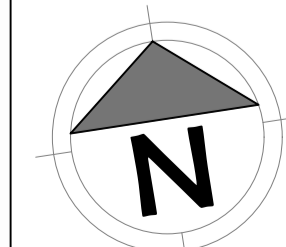
**SURFACE TREATMENT LEGEND:**

PAVEMENT 1 - ACCESS STREET - 1x10 <sup>5</sup> ASPHALT - 30mm @ DG10, CLASS 320 BITUMEN BINDER WITH EMULSION PRIME 150mm THICK BASE COURSE - TYPE 2.1 (CBR 80) BINDER WITH EMULSION PRIME 150mm THICK SUB-BASE - TYPE 2.3 (CBR 45) TOTAL PAVEMENT DEPTH = 330mm
HEAVY DUTY DRIVEWAY REFER IPWEA STD DRG RS-051
BUSHFIRE TRAIL REFER DRGS C4700-C1716 FOR DETAILS.
EMERGENCY ACCESS 100mm BASE COURSE - TYPE 2.5 (CBR15)

**PAVEMENT NOTES**

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REVISIONS:	REVISION DESCRIPTION	DRAWN	DATE
C	ISSUE FOR APPROVAL	MA	06/06/24
B	ISSUE FOR APPROVAL	MA	24/05/24
A	ISSUE FOR APPROVAL	MP	15/04/24



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SCALE

0 7.5 15 22.5 30 37.5m 75m

SCALE 1:750

PROJECT TITLE

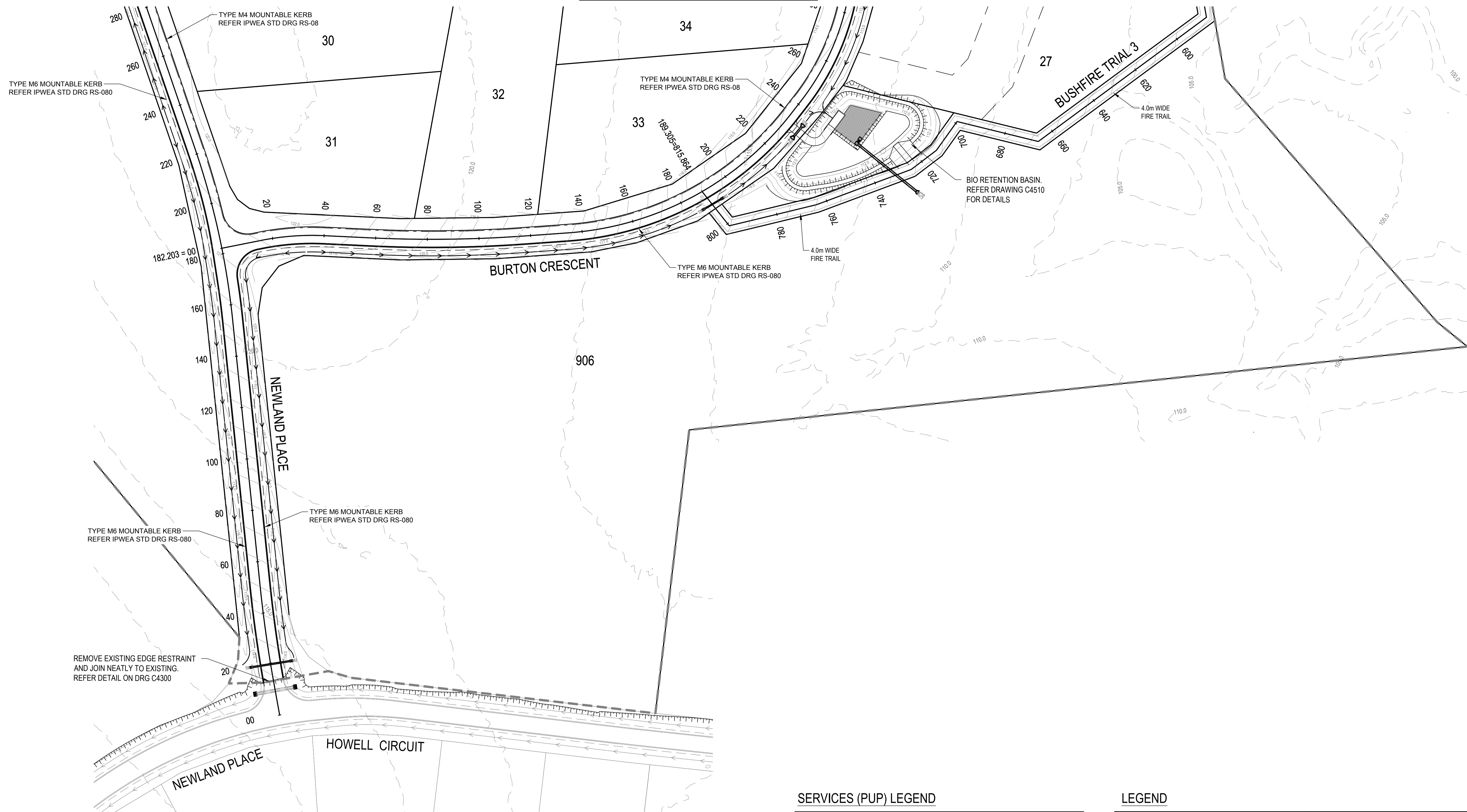
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE

**PAVEMENT PLAN SHEET 3**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4302		C

FOR CONTINUATION REFER DWG No. C4401



SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

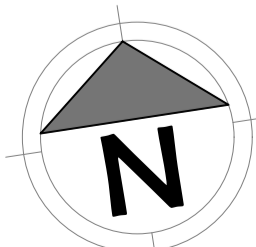
(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
KERB AND CHANNEL	MOUNTABLE KERB TYPE M6
KERB ONLY	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

**NOTE**  
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10% FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL



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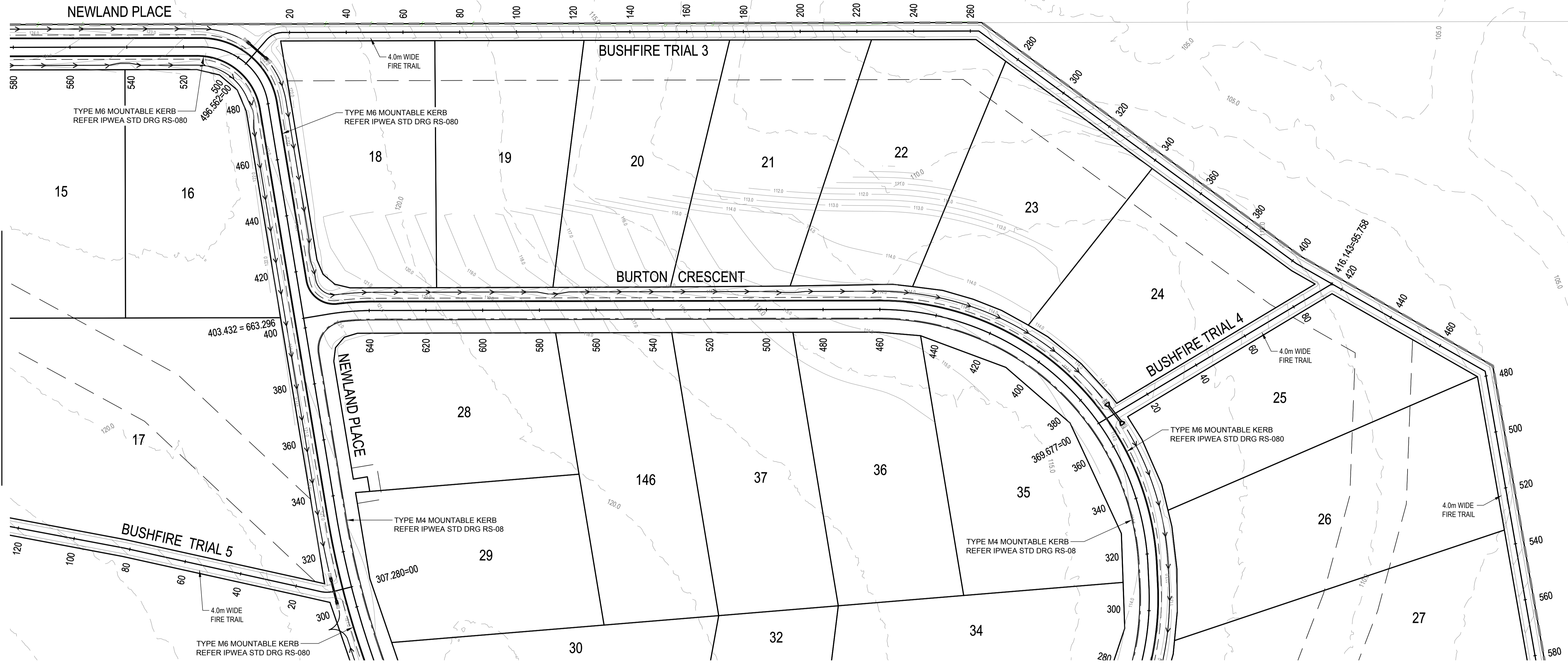
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SCALE  
0 7.5 15 22.5 30 37.5m 75m  
SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**ROADWORKS PLAN SHEET 1**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4400	A	

OR CONTINUATION REFER DWG No. C4402



FOR CONTINUATION REFER DWG No. C4400

**NOTE**  
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10%  
FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

**SERVICES (PUP) LEGEND**

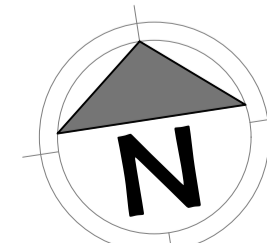
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

**LEGEND**

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
KERB AND CHANNEL	MOUNTABLE KERB TYPE M6
KERB ONLY	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

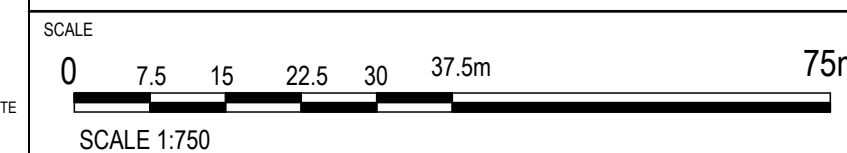
REVISIONS:	NO.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL		MP	15/04/24



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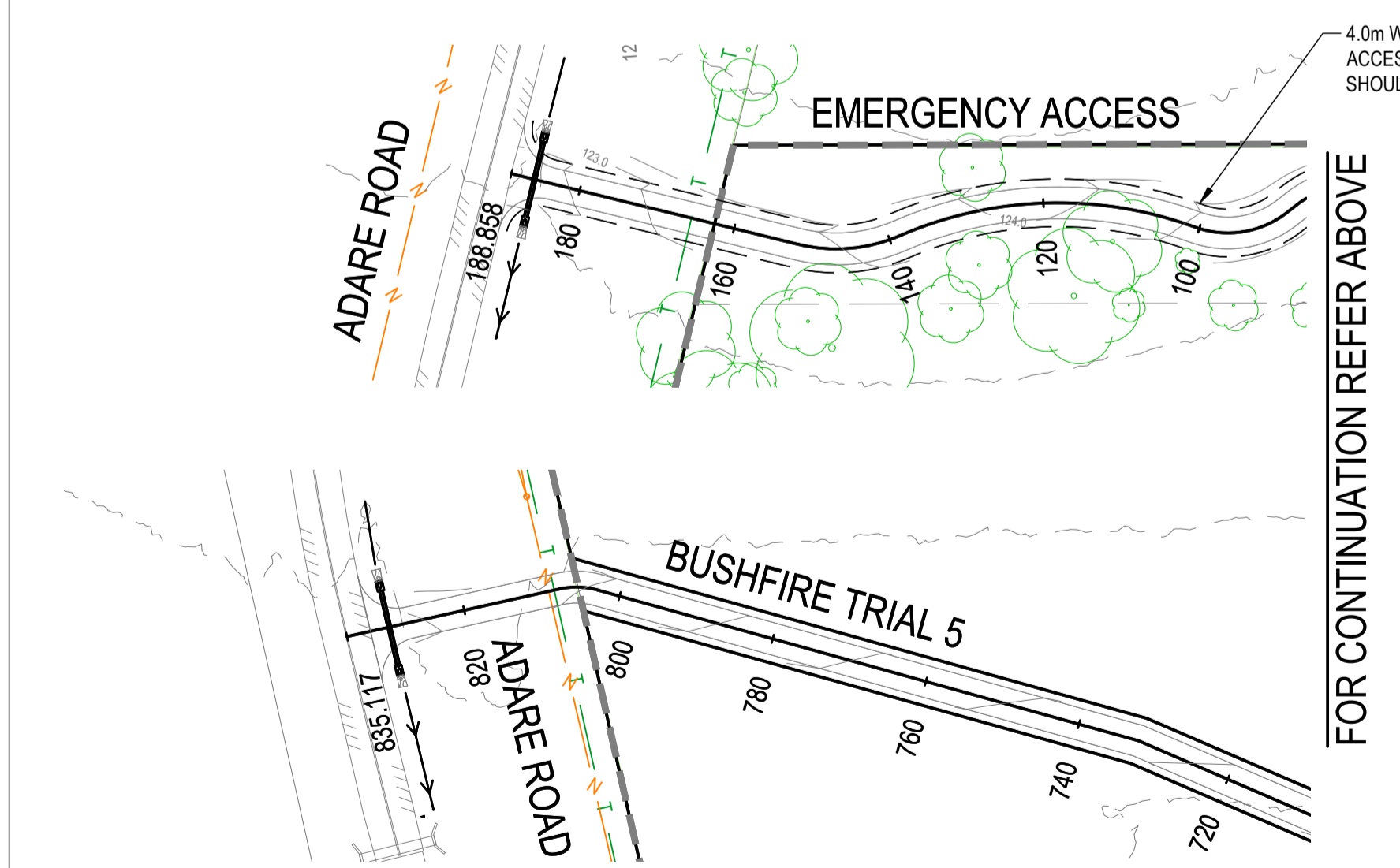
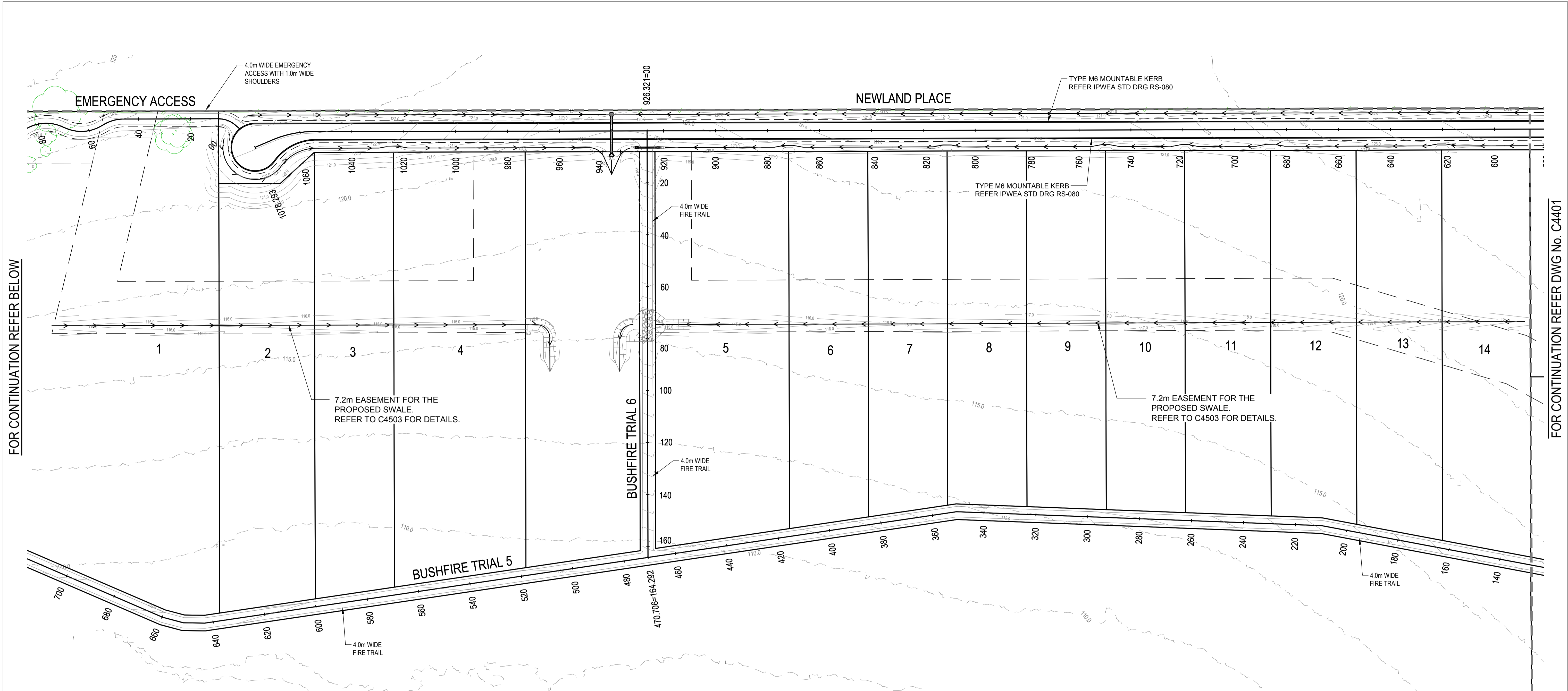


PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**ROADWORKS PLAN SHEET 2**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4401	A	



**NOTE**  
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10% FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

**SERVICES (PUP) LEGEND**

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

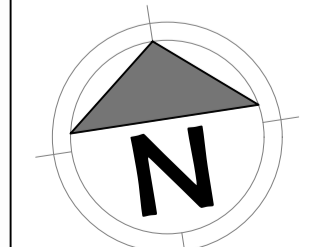
(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

**LEGEND**

EXISTING	PROPOSED
FENCE	EASEMENT BOUNDARY
OPEN DRAIN	OPEN DRAIN
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (1.0m)	CONTOUR (0.5m)
ROAD EDGE BITUMEN	ROAD EDGE BITUMEN
TREE TO REMAIN	ROAD SHOULDER
TREE TO BE REMOVED	DRAINAGE

**REVISIONS:**

No.	REVISION DESCRIPTION	DRAWN	DATE
C	ISSUE FOR APPROVAL	MA	06/06/24
B	ISSUE FOR APPROVAL	MA	24/05/24
A	ISSUE FOR APPROVAL	MP	15/04/24



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IF IN DOUBT, ASK.

CLIENT

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PO BOX 4107 SPRINGFIELD QLD 4300

SCALE

0 7.5 15 22.5 30 37.5m 75m

SCALE 1:750

PROJECT TITLE

**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE

**ROADWORKS PLAN SHEET 3**

DRAWING STATUS

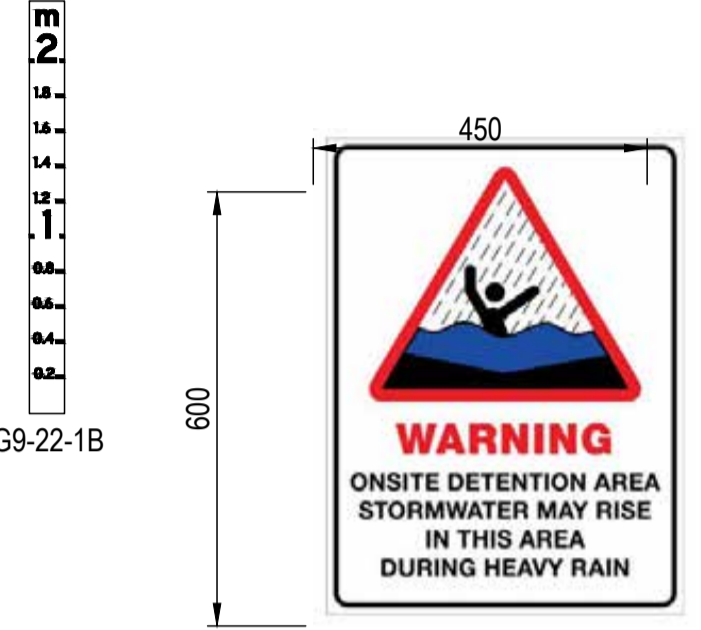
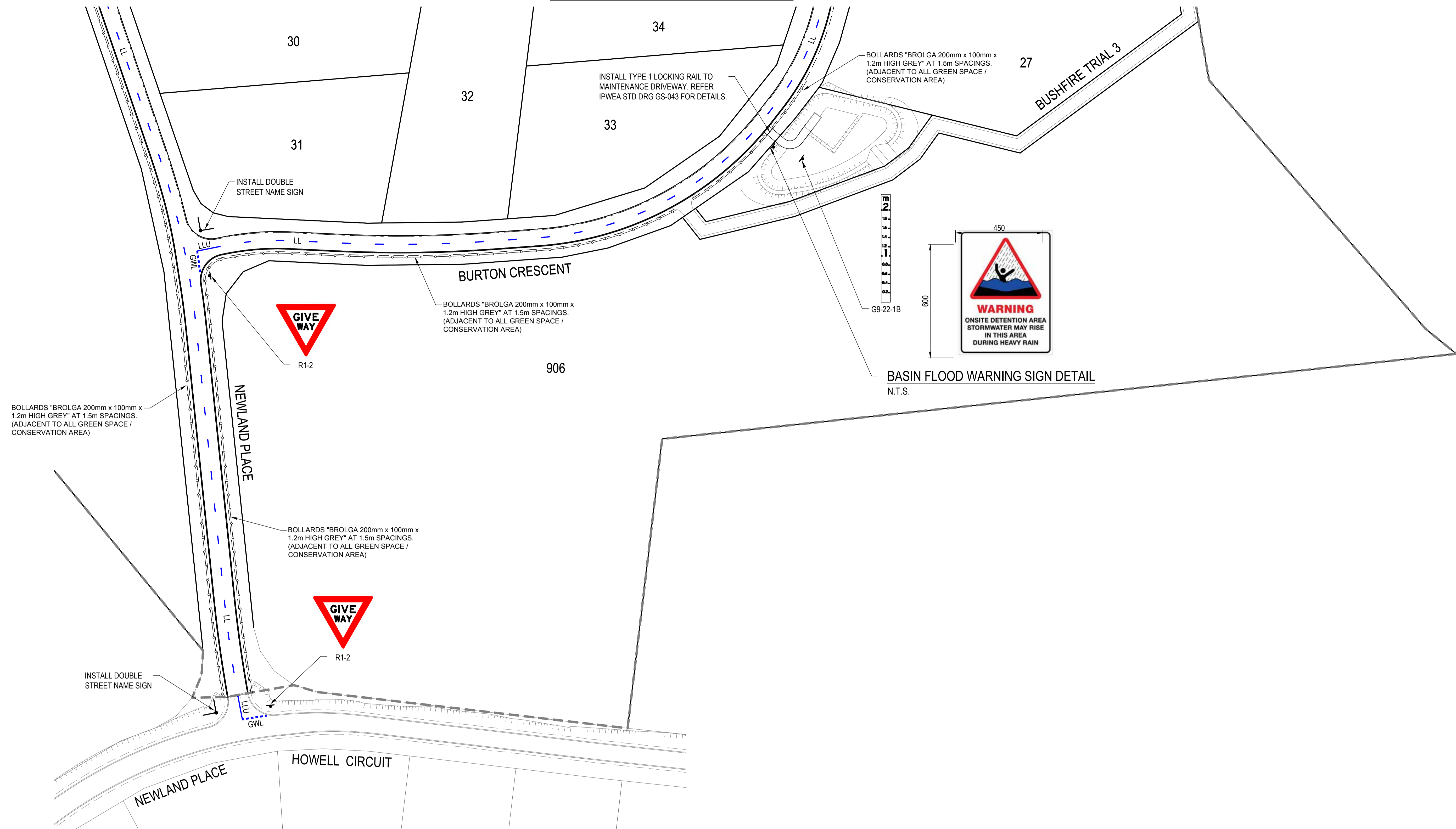
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1

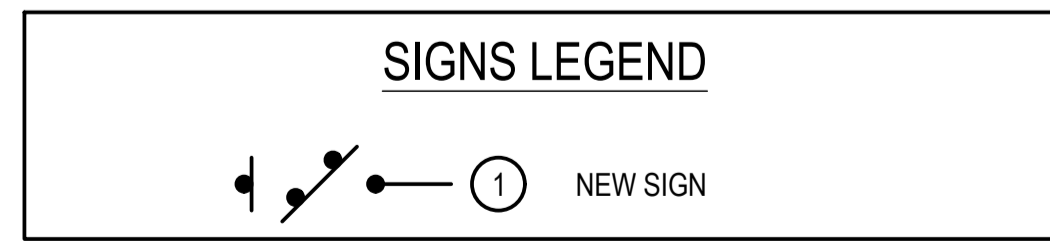
JOB No.	DRAWING No.	REVISION
BR242001	C4402	C

FOR CONTINUATION REFER DWG No. C4431



BASIN FLOOD WARNING SIGN DETAIL  
N.T.S.

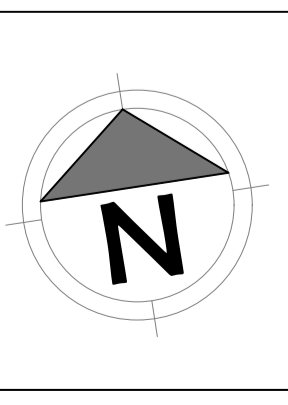
PAVEMENT MARKING LEGEND	
LLU	SEPARATION LINE UNBROKEN (150mm)
LL	LANE LINE BROKEN (150mm) 3m LINE, 9m GAP
GWL	GIVE WAY LINE (300mm)



- PAVEMENT MARKING NOTES**
- ALL LONGITUDINAL LINES AS PER MUTCD SECTION 5.2.
  - ALL TRANSVERSE LINES AS PER MUTCD SECTION 5.4.
  - DIAGONAL AND CHEVRONS AS PER MUTCD SECTION 5.5.
  - ALL LINWORK TO HAVE RAISED REFLECTIVE MARKERS INSTALLED AS PER MUTCD SECTION 5.6.
  - PAINT FULL WIDTH EDGE LINE (EL) 200mm FROM EDGE OF BITUMEN AS SHOWN.
  - INSTALL GUIDE POSTS TO EDGE OF BITUMEN ALONG TABLE DRAINS IN ACCORDANCE WITH TMR STD DRG SD1356.
  - INSTALL GUIDE POSTS TO BOTH SIDES OF ALL DRIVEWAYS.
  - LINEMARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.
  - GIVEWAY PAVEMENT MARKING LOCATIONS TO BE IN ACCORDANCE WITH MUTCD.

REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL

**PARKLAKE**  
ADARE



van der Meer Consulting  
**van der meer**  
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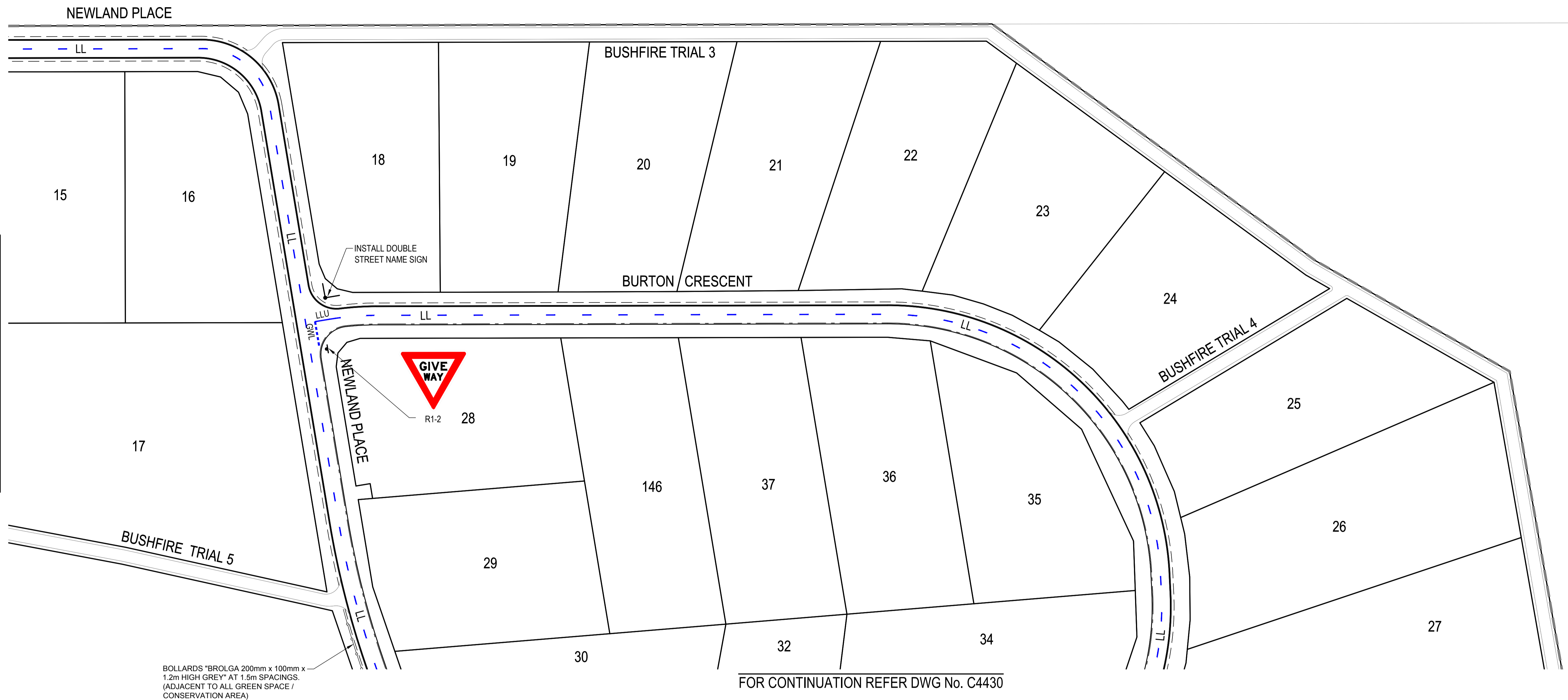
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SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**SIGNS AND PAVEMENT MARKING PLAN - SHEET 1**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4430	A	

OR CONTINUATION REFER DWG No. C4432



**PAVEMENT MARKING LEGEND**

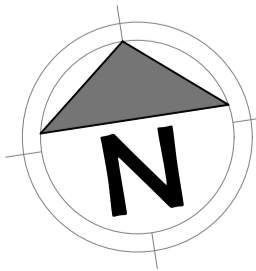
LLU	SEPARATION LINE UNBROKEN (150mm)
LL	LANE LINE BROKEN (150mm) 3m LINE, 9m GAP
GWL	GIVE WAY LINE (300mm)



- PAVEMENT MARKING NOTES**
- ALL LONGITUDINAL LINES AS PER MUTCD SECTION 5.2.
  - ALL TRANSVERSE LINES AS PER MUTCD SECTION 5.4.
  - DIAGONAL AND CHEVRONS AS PER MUTCD SECTION 5.5.
  - ALL LINEMARKING TO HAVE RAISED REFLECTIVE MARKERS INSTALLED AS PER MUTCD SECTION 5.6.
  - PAINT FULL WIDTH EDGE LINE (EL) 200mm FROM EDGE OF BITUMEN AS SHOWN.
  - INSTALL GUIDE POSTS TO EDGE OF BITUMEN ALONG TABLE DRAINS IN ACCORDANCE WITH TMR STD DRG SD1356.
  - INSTALL GUIDE POSTS TO BOTH SIDES OF ALL DRIVEWAYS.
  - LINEMARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.
  - GIVEWAY PAVEMENT MARKING LOCATIONS TO BE IN ACCORDANCE WITH MUTCD.

**REVISIONS:**

No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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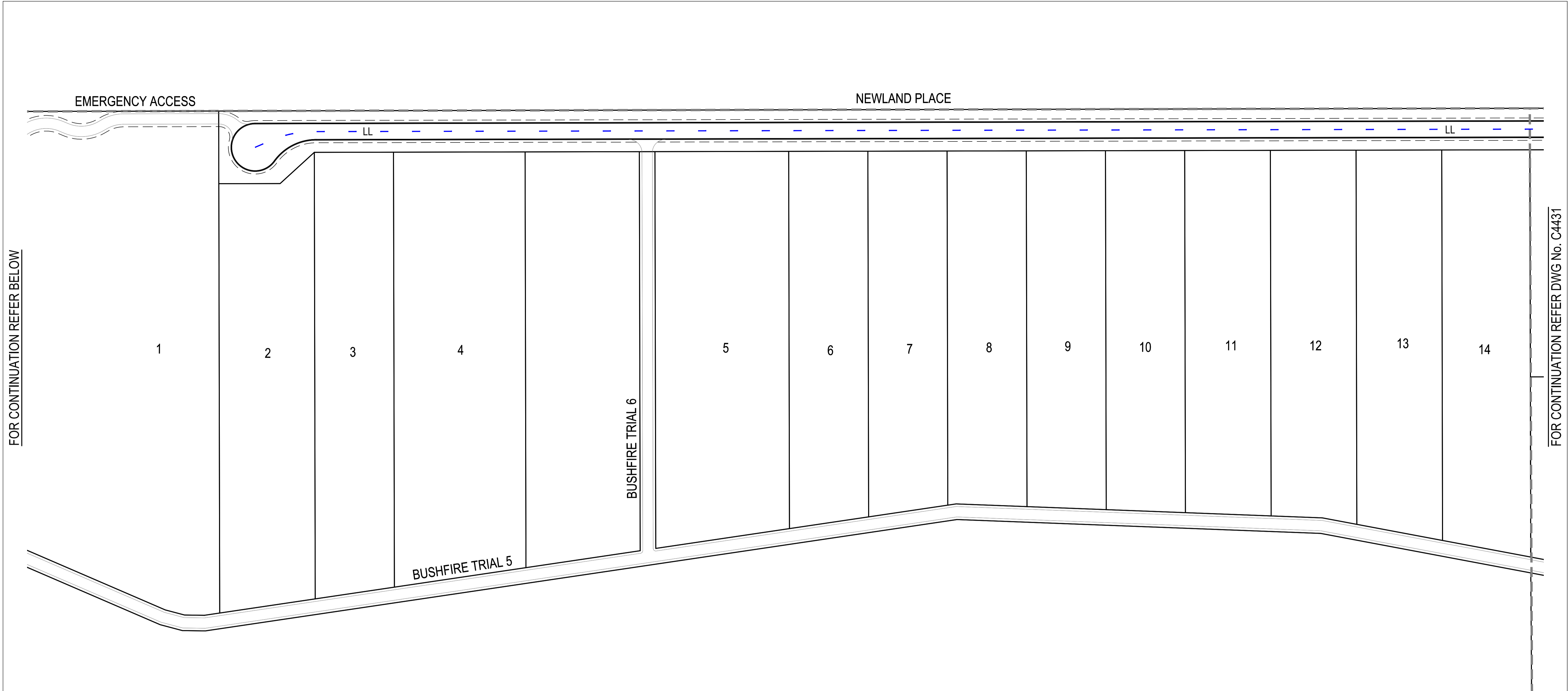
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SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**SIGNS AND PAVEMENT MARKING PLAN - SHEET 2**

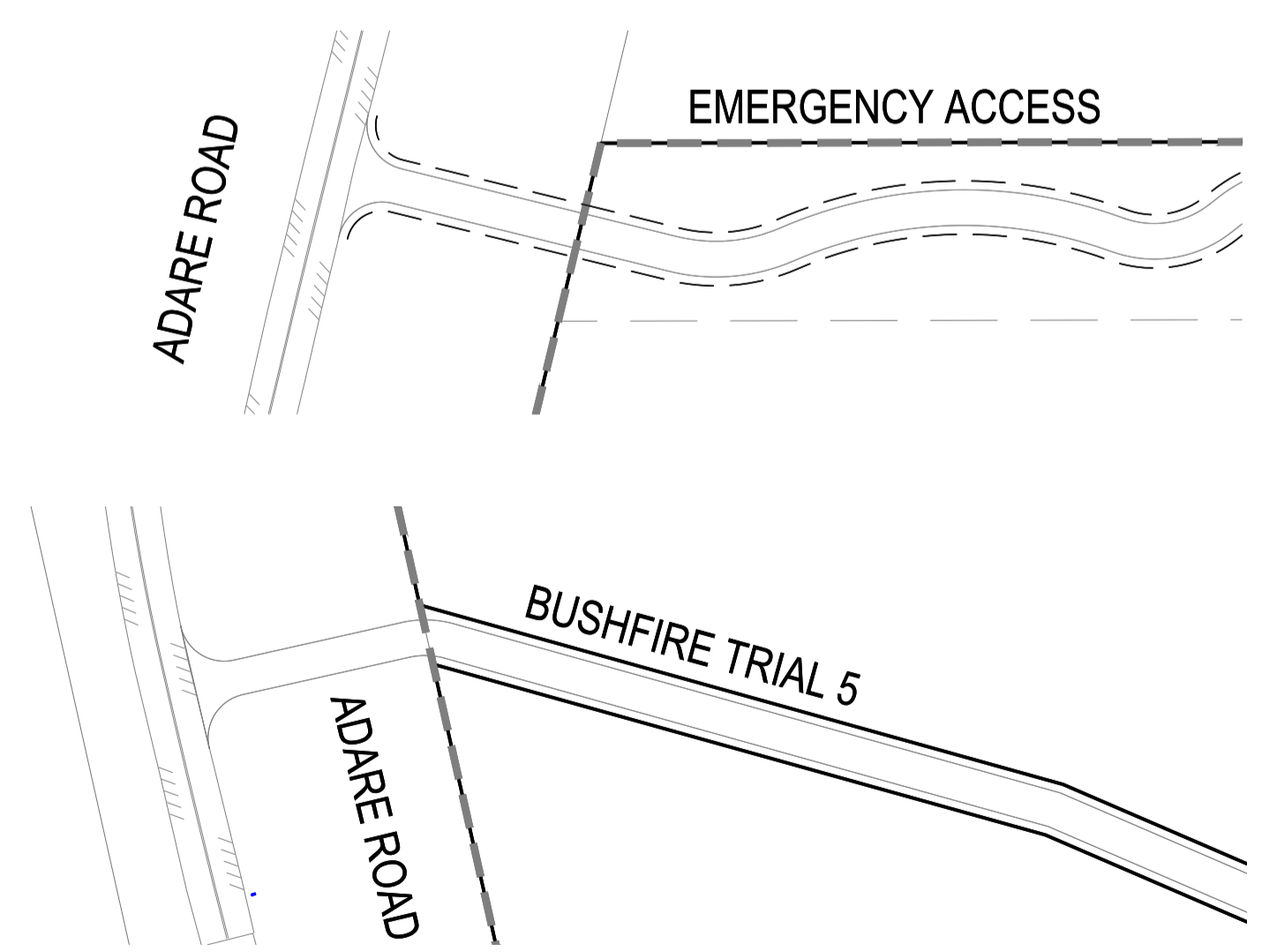
DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4431	A	



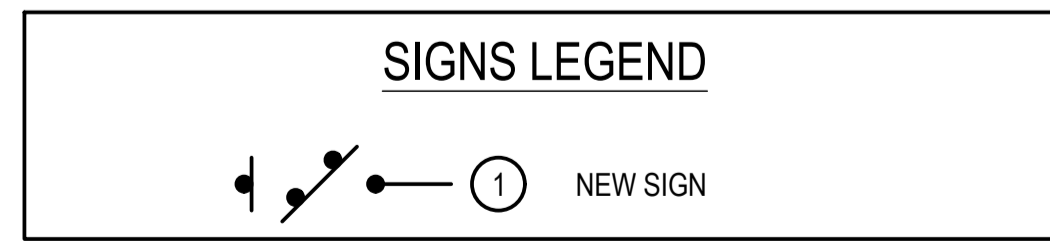
FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4431



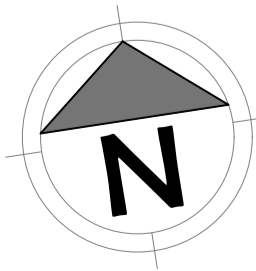
FOR CONTINUATION REFER ABOVE

PAVEMENT MARKING LEGEND	
LLU	SEPARATION LINE UNBROKEN (150mm)
LL	LANE LINE BROKEN (150mm) 3m LINE, 9m GAP
GWL	GIVE WAY LINE (300mm)



- PAVEMENT MARKING NOTES**
- ALL LONGITUDINAL LINES AS PER MUTCD SECTION 5.2.
  - ALL TRANSVERSE LINES AS PER MUTCD SECTION 5.4.
  - DIAGONAL AND CHEVRONS AS PER MUTCD SECTION 5.5.
  - ALL LINework TO HAVE RAISED REFLECTIVE MARKERS INSTALLED AS PER MUTCD SECTION 5.6.
  - PAINT FULL WIDTH EDGE LINE (EL) 200mm FROM EDGE OF BITUMEN AS SHOWN.
  - INSTALL GUIDE POSTS TO EDGE OF BITUMEN ALONG TABLE. DRAINS IN ACCORDANCE WITH TMR STD DRG SD1356.
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  - GIVEWAY PAVEMENT MARKING LOCATIONS TO BE IN ACCORDANCE WITH MUTCD.

REVISIONS:			
No.	REVISION DESCRIPTION	MP DRAWN	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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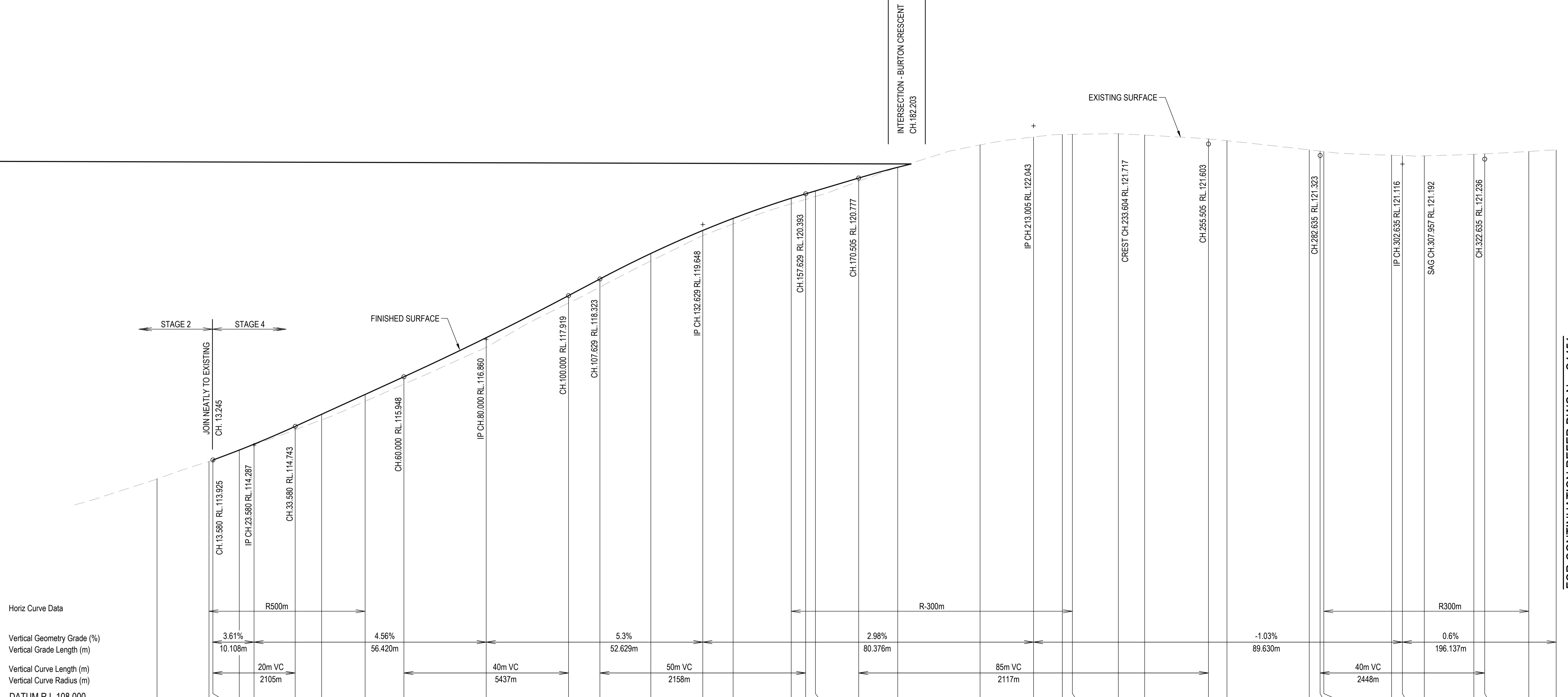
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SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**SIGNS AND PAVEMENT MARKING PLAN - SHEET 3**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4432	A	

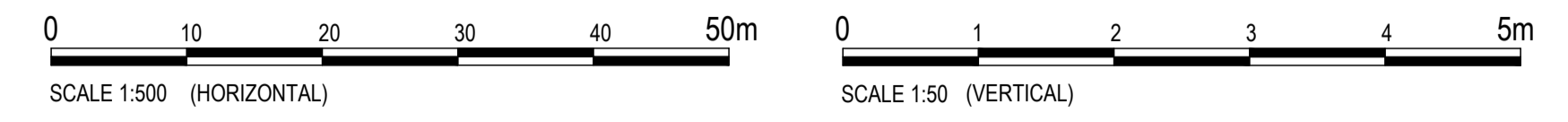




Horiz Curve Data  
 Vertical Geometry Grade (%)  
 Vertical Grade Length (m)  
 Vertical Curve Length (m)  
 Vertical Curve Radius (m)  
 DATUM R.L. 108.000

CHAINAGE	0.000	12.627	13.580	13.925	14.175	14.298	33.580	40.000	50.572	60.000	80.000	100.000	107.629	118.128	118.760	132.629	140.000	154.118	157.629	160.000	170.505	180.000	200.000	213.005	220.000	222.437	233.604	240.000	255.505	260.000	280.000	282.635	283.530	300.000	302.635	307.957	320.000	322.635	333.344	340.000
NATURAL SURFACE LEVELS	113.465	113.891	113.925	113.925	114.175	114.298	114.660	114.900	115.350	115.768	116.662	117.739	118.128	118.760	119.380	119.660	120.151	120.257	120.328	120.328	120.698	121.033	121.580	121.774	121.833	121.838	121.852	121.820	121.727	121.682	121.461	121.431	121.420	121.330	121.322	121.315	121.353	121.364	121.422	121.457
CUT / FILL DEPTH			-0.032	-0.008	0.013	0.083	0.136	0.168	0.180	0.234	0.181	0.195	0.183	0.122	0.135	0.136	0.136	0.136	0.079	0.005	-0.130	-0.157	-0.160	-0.150	-0.135	-0.113	-0.124	-0.125	-0.111	-0.108	-0.107	-0.125	-0.124	-0.123	-0.132	-0.128	-0.122	-0.117		
DESIGN SURFACE LEVELS			113.925	114.167	114.310	114.743	115.036	115.518	115.948	116.897	117.919	118.323	118.943	119.503	119.795	120.285	120.393	120.463	120.777	121.038	121.450	121.617	121.673	121.687	121.717	121.707	121.603	121.557	121.350	121.323	121.314	121.205	121.198	121.192	121.222	121.236	121.300	121.340		

LONGITUDINAL SECTION - NEWLAND PLACE  
 HORIZONTAL SCALE 1:500  
 VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	DATE
A	1	ISSUED FOR APPROVAL	15/04/24



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 SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**ROAD LONGITUDINAL SECTION**  
 NEWLAND PLACE - SHEET 1

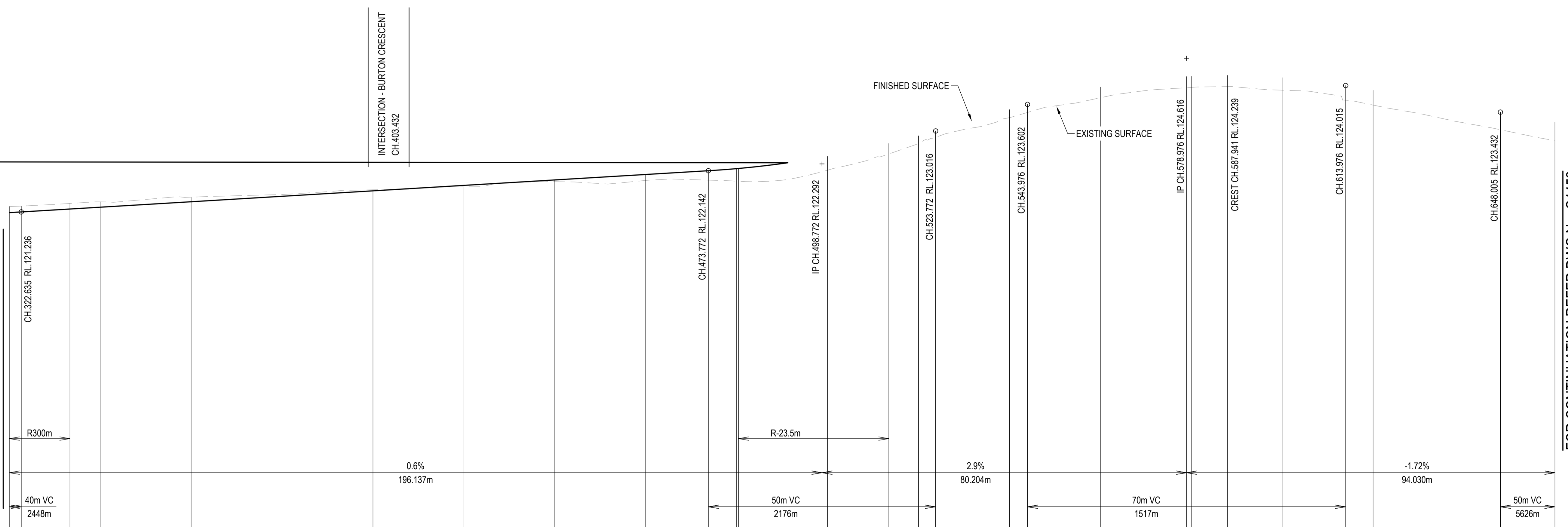
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**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  
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 DESIGNER: MP  
 SIGNATURE: [Signature]  
 DRAFTSPERSON: MP  
 SCALE: AS SHOWN  
 DATE: 15/04/24  
 SHEET SIZE: A1  
 JOB No: BR242001  
 DRAWING No: C4450  
 REVISION: A

FOR CONTINUATION REFER DWG No. C4451

FOR CONTINUATION REFER DWG No. C4450

FOR CONTINUATION REFER DWG No. C4452

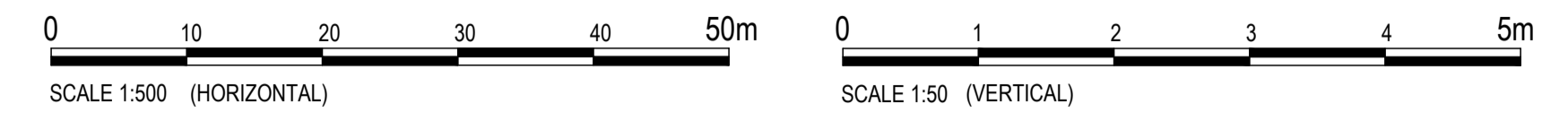
Horiz Curve Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Vertical Curve Radius (m)  
DATUM R.L.114.000



INTERSECTION - BURTON CRESCENT  
CH.403.432

CHAINAGE	320.000	322.635	333.344	340.000	360.000	380.000	400.000	420.000	440.000	460.000	473.772	480.000	480.388	498.772	500.000	513.484	520.000	523.772	540.000	543.976	560.000	578.976	580.000	587.941	600.000	613.976	620.000	640.000	648.005	660.000
NATURAL SURFACE LEVELS	121.353	121.364	121.422	121.457	121.561	121.620	121.723	121.787	121.901	121.929	121.936	121.912	121.910	122.119	122.153	122.511	122.738	122.876	123.309	123.424	123.747	123.969	123.976	123.993	123.914	123.680	123.587	123.195	123.044	122.804
CUT / FILL DEPTH	-0.132	-0.128	-0.122	-0.117	-0.101	-0.040	-0.023	0.032	0.038	0.131	0.206	0.276	0.282	0.316	0.304	0.231	0.172	0.140	0.178	0.178	0.234	0.243	0.242	0.246	0.277	0.335	0.325	0.374	0.387	0.409
DESIGN SURFACE LEVELS	121.222	121.236	121.300	121.340	121.460	121.580	121.700	121.820	121.940	122.060	122.142	122.188	122.192	122.436	122.457	122.743	122.910	123.016	123.487	123.602	123.982	124.212	124.218	124.239	124.191	124.015	123.912	123.569	123.432	123.213

LONGITUDINAL SECTION - NEWLAND PLACE  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



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No.	REVISION DESCRIPTION
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P.10/04/24 - AK

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PO BOX 4107 SPRINGFIELD QLD 4300

SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

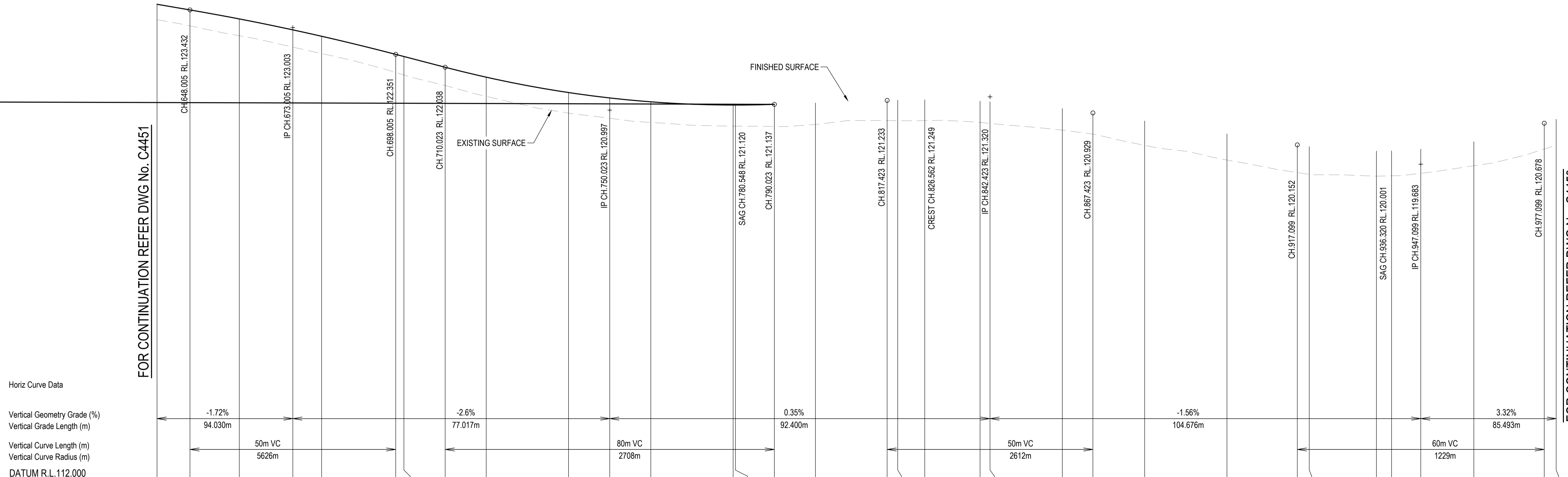
DRAWING TITLE  
**ROAD LONGITUDINAL SECTION**  
NEWLAND PLACE - SHEET 2

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4451	REVISION A	

FOR CONTINUATION REFER DWG No. C4451

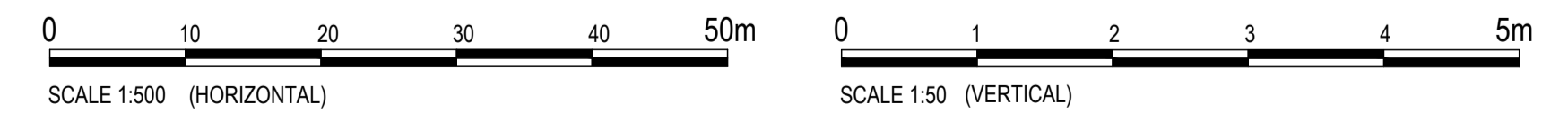
FOR CONTINUATION REFER DWG No. C4453



Horiz Curve Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Vertical Curve Radius (m)  
DATUM R.L.112.000

CHAINAGE	640.000	648.005	660.000	673.005	680.000	698.005	700.000	710.023	720.000	740.000	750.023	760.000	780.000	780.548	790.023	800.000	817.423	820.000	826.562	840.000	842.423	860.000	867.423	880.000	900.000	917.099	920.000	936.320	940.000	947.099	960.000	977.099	980.000
NATURAL SURFACE LEVELS	123.195	123.044	122.804	122.529	122.371	121.913	121.853	121.595	121.331	120.925	120.798	120.698	120.607	120.607	120.599	120.648	120.744	120.741	120.742	120.697	120.674	120.510	120.415	120.141	119.784	119.479	119.435	119.392	119.400	119.460	119.644	120.050	120.138
CUT / FILL DEPTH	0.374	0.387	0.409	0.418	0.421	0.439	0.447	0.444	0.466	0.498	0.494	0.500	0.513	0.513	0.538	0.524	0.489	0.500	0.506	0.517	0.526	0.524	0.514	0.591	0.636	0.673	0.675	0.610	0.607	0.589	0.586	0.628	0.637
DESIGN SURFACE LEVELS	123.569	123.432	123.213	122.947	122.792	122.351	122.300	122.038	121.797	121.424	121.292	121.198	121.120	121.120	121.137	121.172	121.233	121.240	121.249	121.214	121.200	121.034	120.929	120.732	120.419	120.152	120.110	120.001	120.007	120.049	120.230	120.678	120.774

LONGITUDINAL SECTION - NEWLAND PLACE  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



REVISIONS:	
No.	REVISION DESCRIPTION
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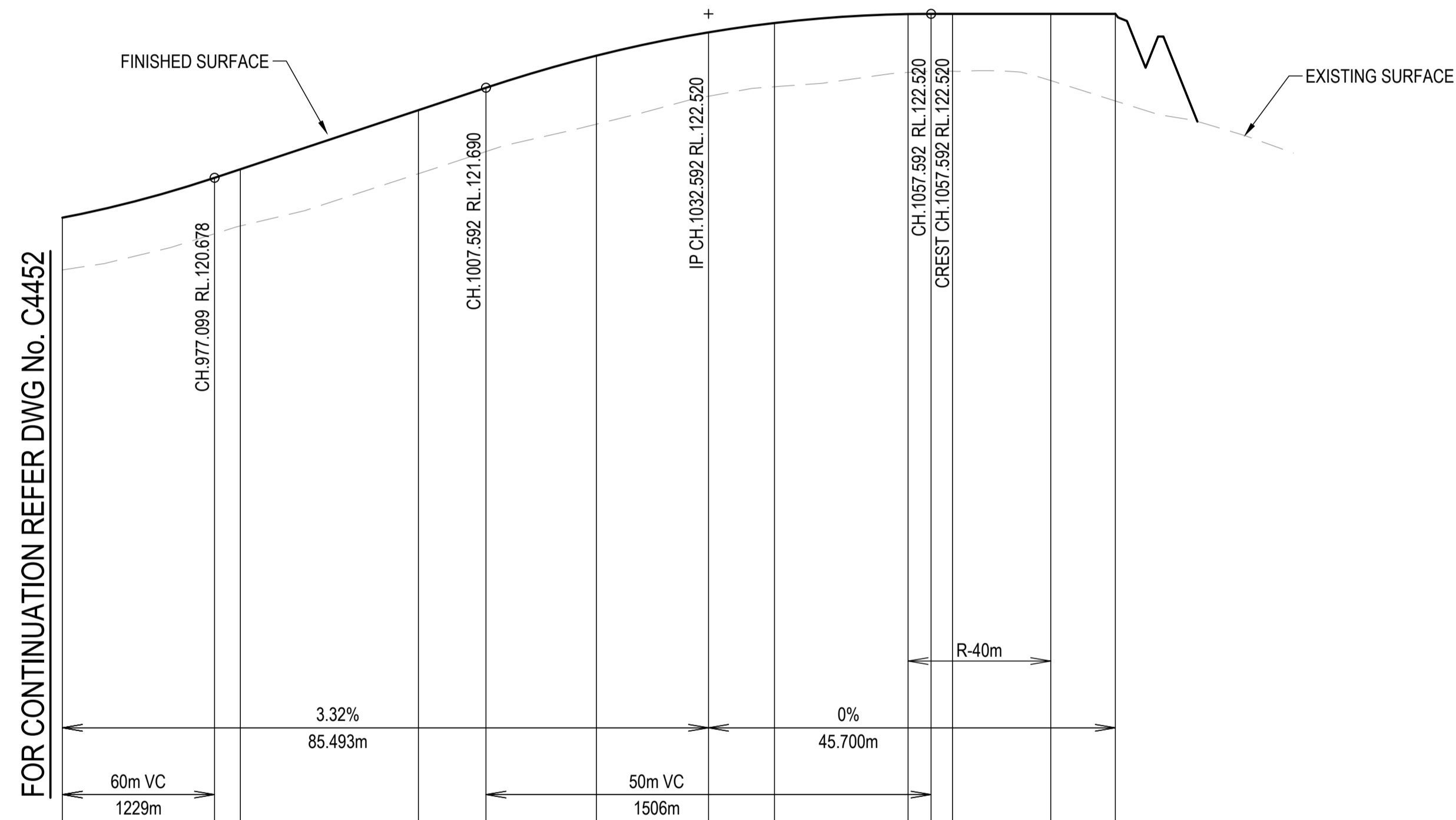
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**van der meer**  
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CLIENT  
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PO BOX 4107 SPRINGFIELD QLD 4300  
SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**ROAD LONGITUDINAL SECTION**  
NEWLAND PLACE - SHEET 3

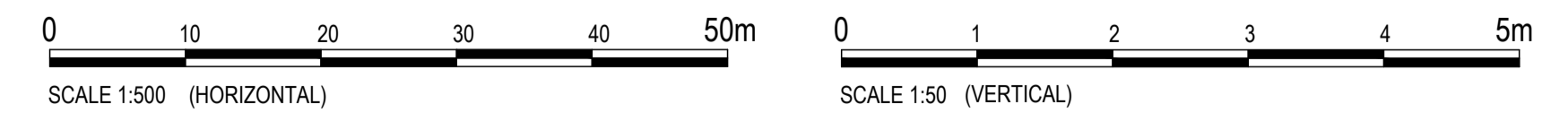
DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
DRAFTSPERSON CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4452	REVISION A	



Horiz Curve Data  
 Vertical Geometry Grade (%)  
 Vertical Grade Length (m)  
 Vertical Curve Length (m)  
 Vertical Curve Radius (m)  
 DATUM R.L. 113.000

NATURAL SURFACE LEVELS	119.644	120.050	120.138	120.724	120.973	121.281	121.595	121.701	121.862	121.875	121.875	121.771	121.542
CUT / FILL DEPTH	0.586	0.628	0.637	0.714	0.717	0.770	0.718	0.716	0.655	0.645	0.645	0.749	0.978
DESIGN SURFACE LEVELS	120.230	120.678	120.774	121.438	121.690	122.051	122.313	122.417	122.518	122.520	122.520	122.520	122.520
CHAINAGE	960.000	977.099	980.000	1000.000	1007.592	1020.000	1032.592	1040.000	1055.006	1057.592	1060.000	1071.036	1078.293

**LONGITUDINAL SECTION - NEWLAND PLACE**  
 HORIZONTAL SCALE 1:500  
 VERTICAL SCALE 1:50



REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL



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SCALE

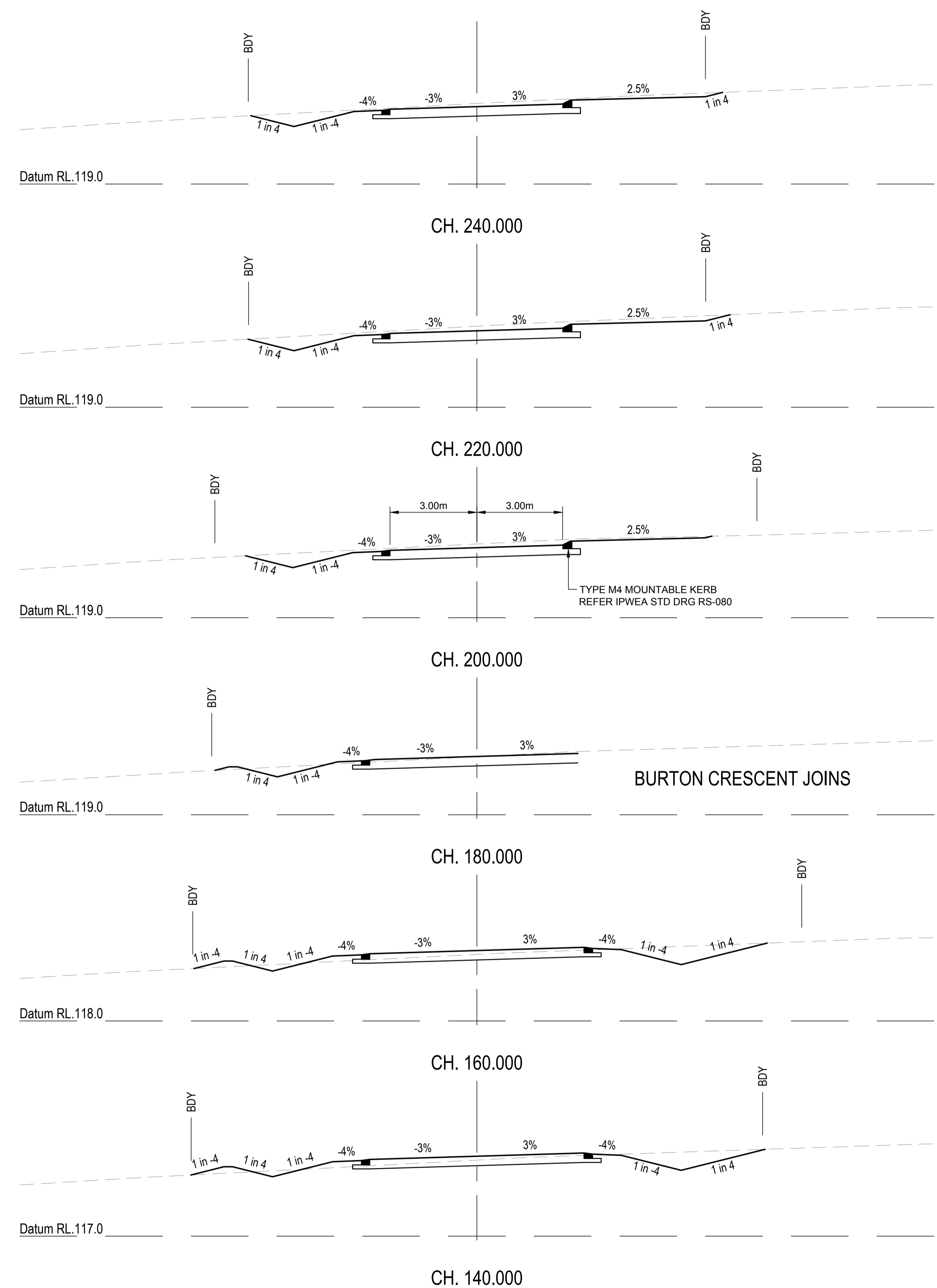
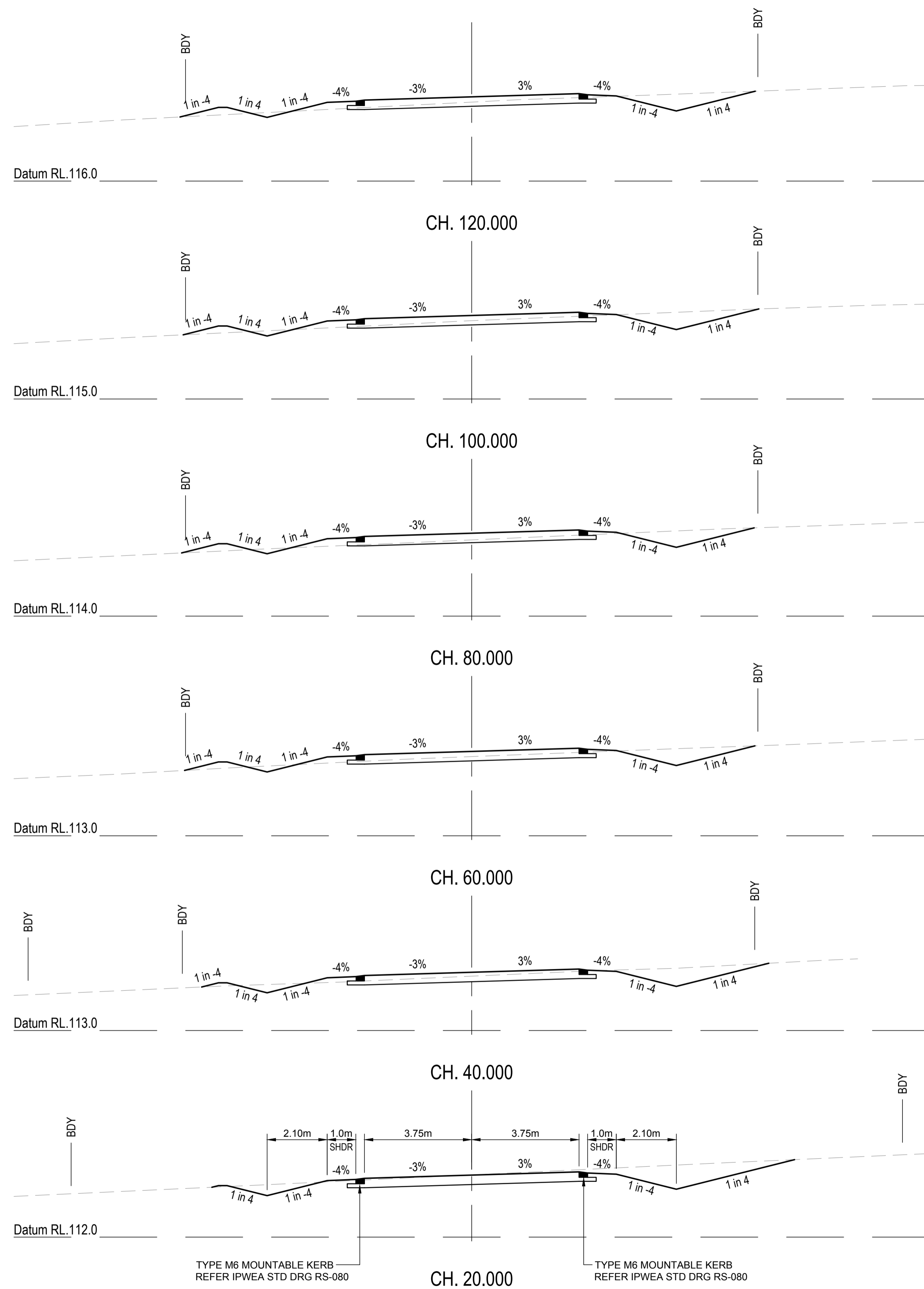
PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5

DRAWING TITLE  
**ROAD LONGITUDINAL SECTION**  
**NEWLAND PLACE - SHEET 4**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001		DRAWING No. C4453	REVISION A

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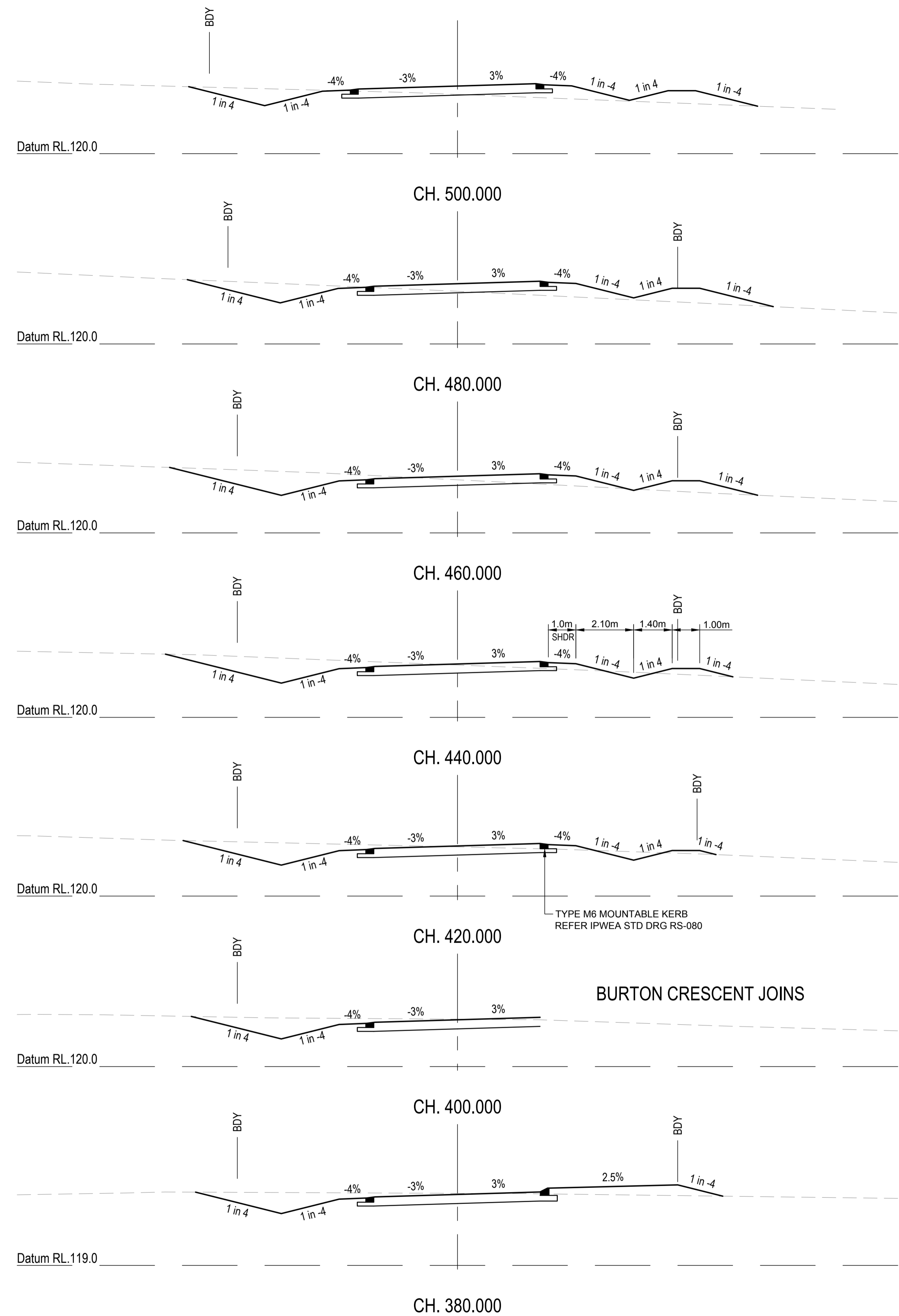
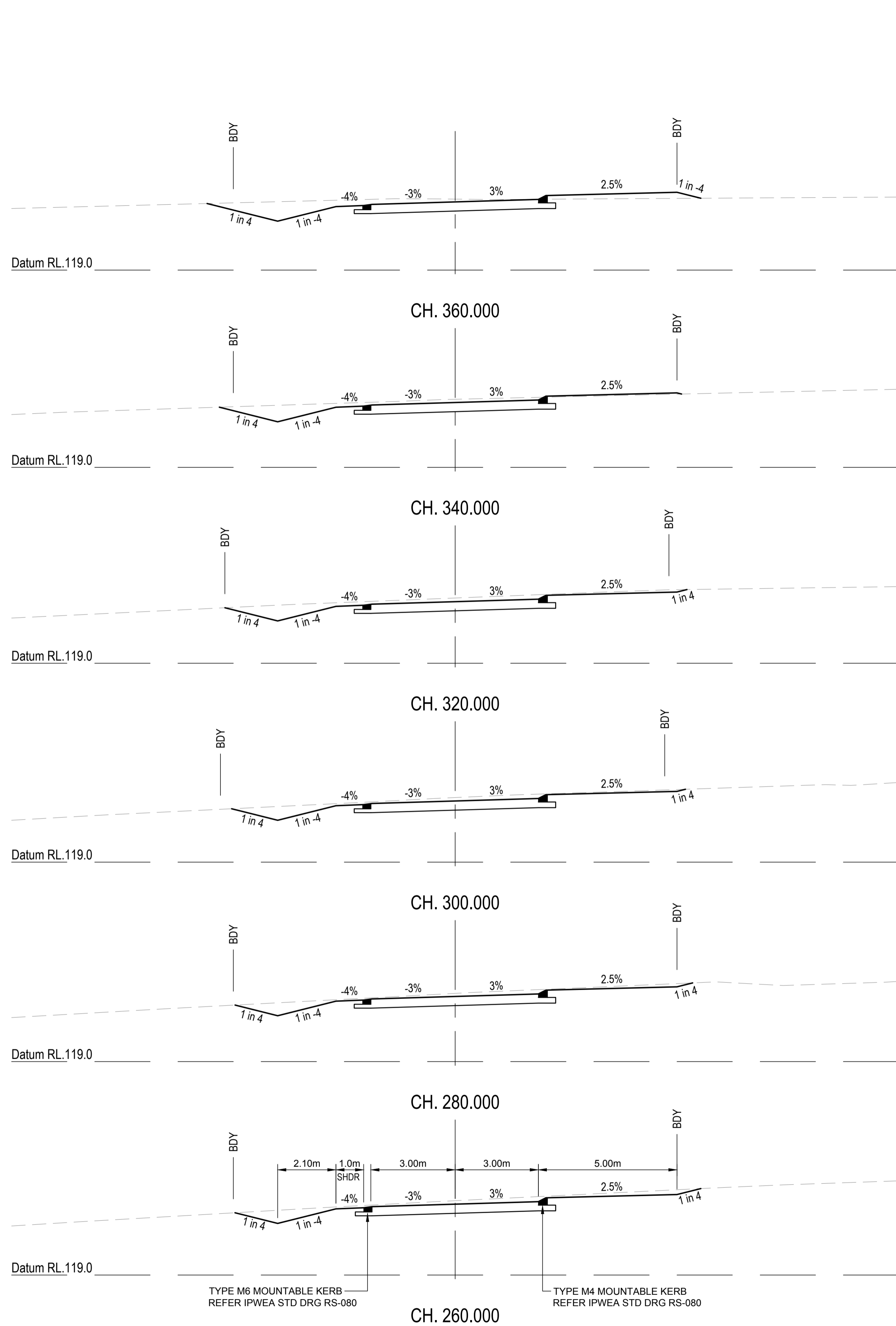
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SCALE  
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SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**ROAD CROSS SECTIONS**  
NEWLAND PLACE - SHEET 1

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4454	A	



REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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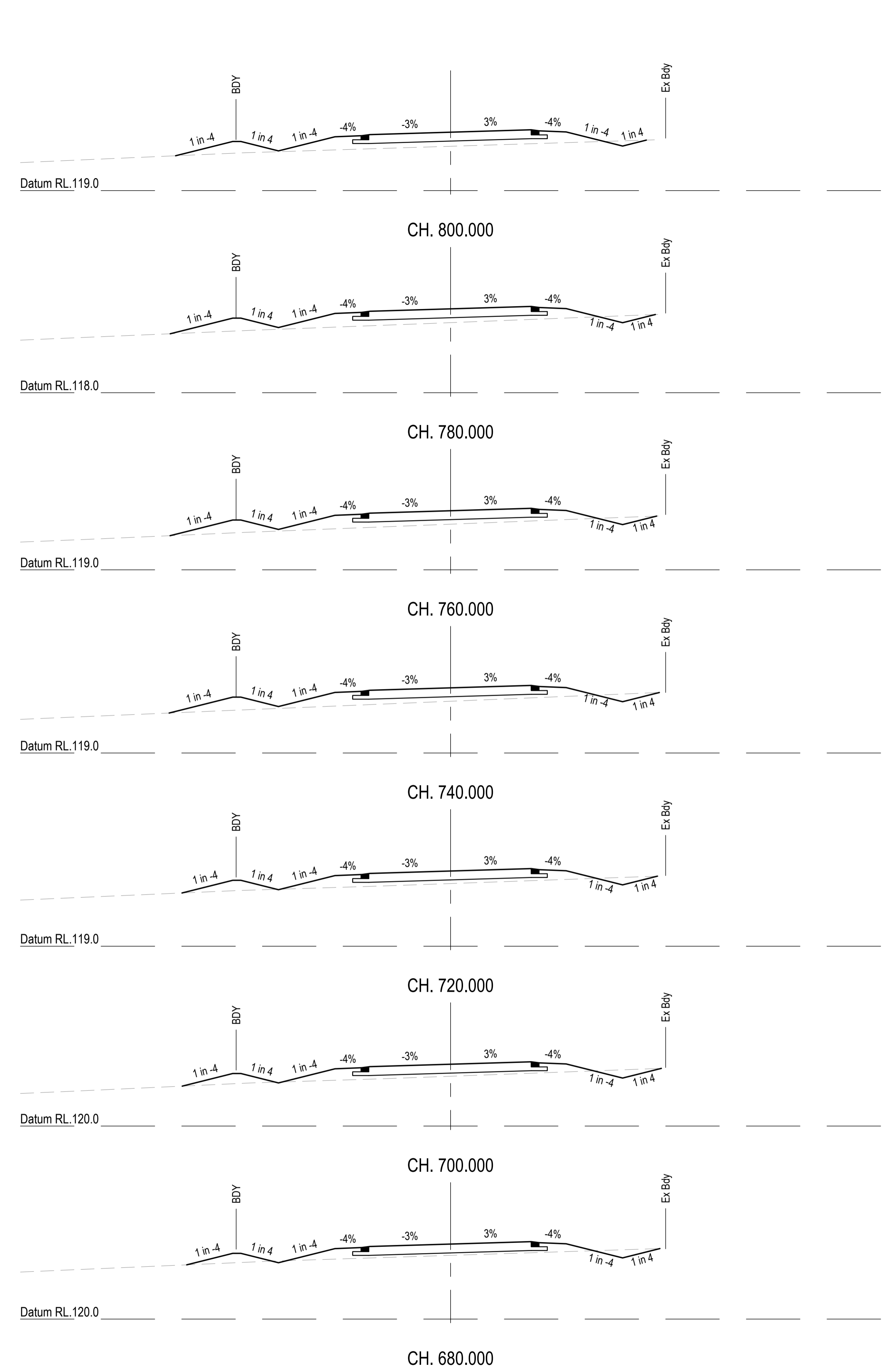
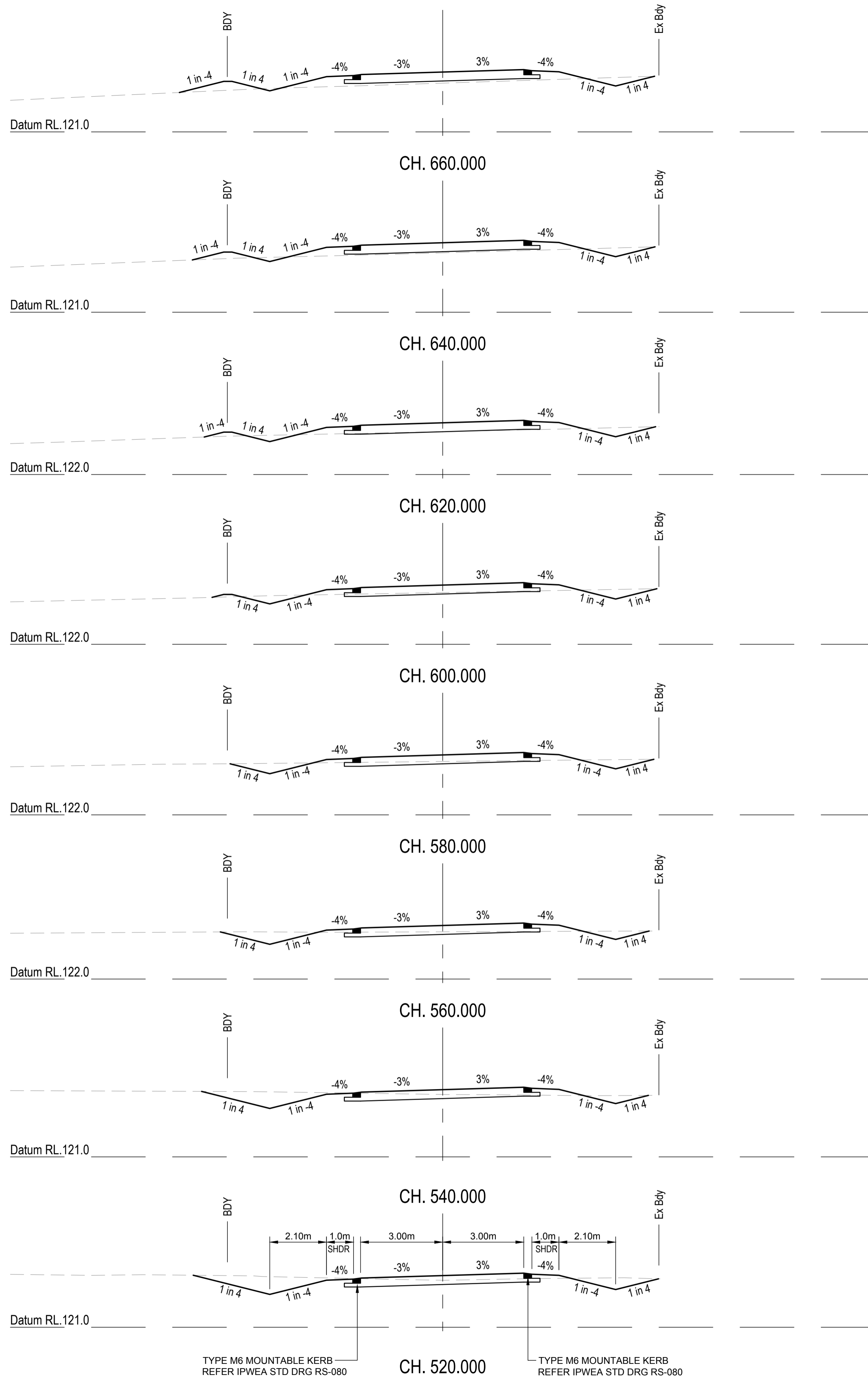
SCALE  
 0 1 2 3 4 5m 10m  
 SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5

DRAWING TITLE  
**ROAD CROSS SECTIONS**  
**NEWLAND PLACE - SHEET 2**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4455	A	

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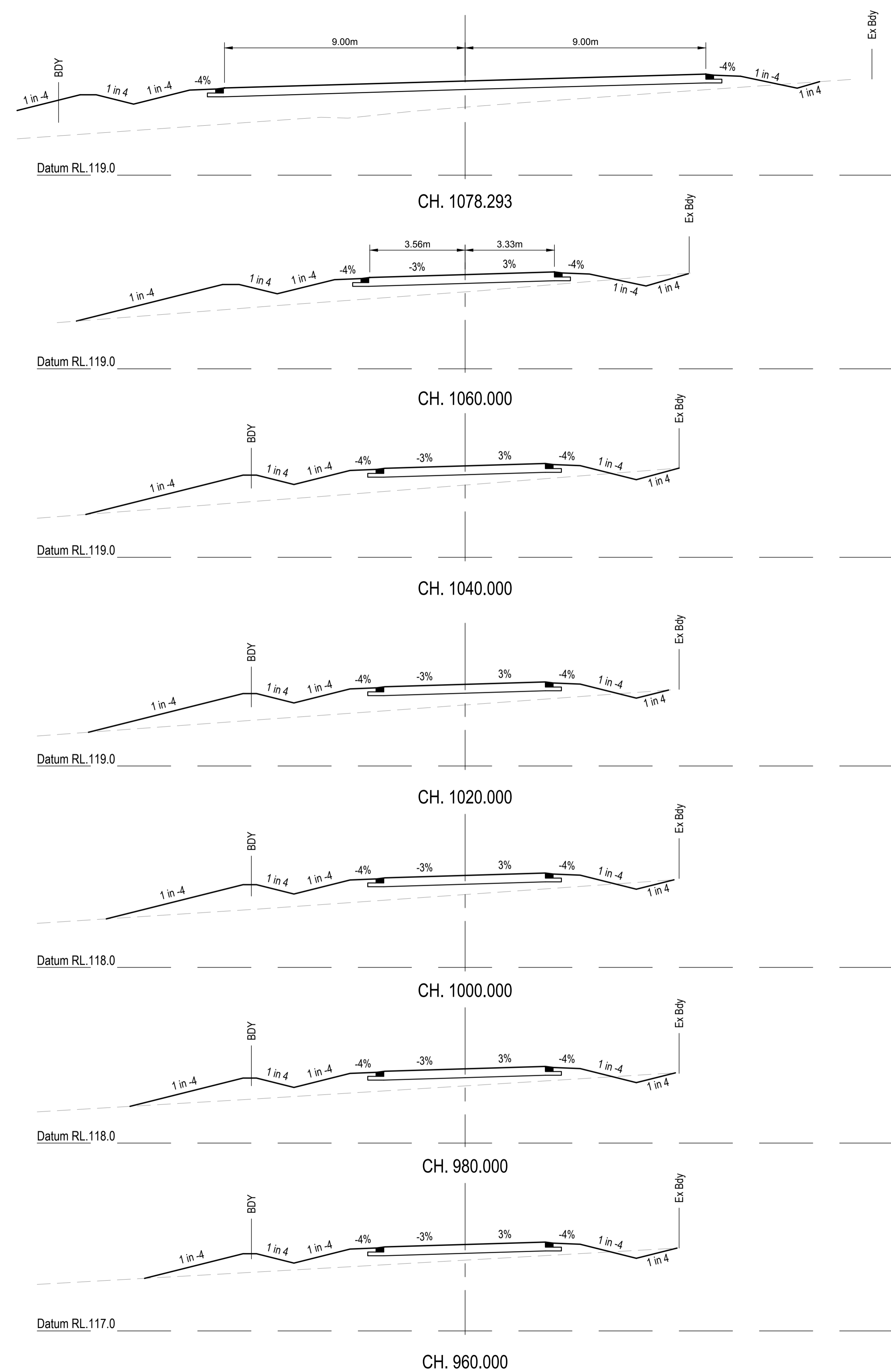
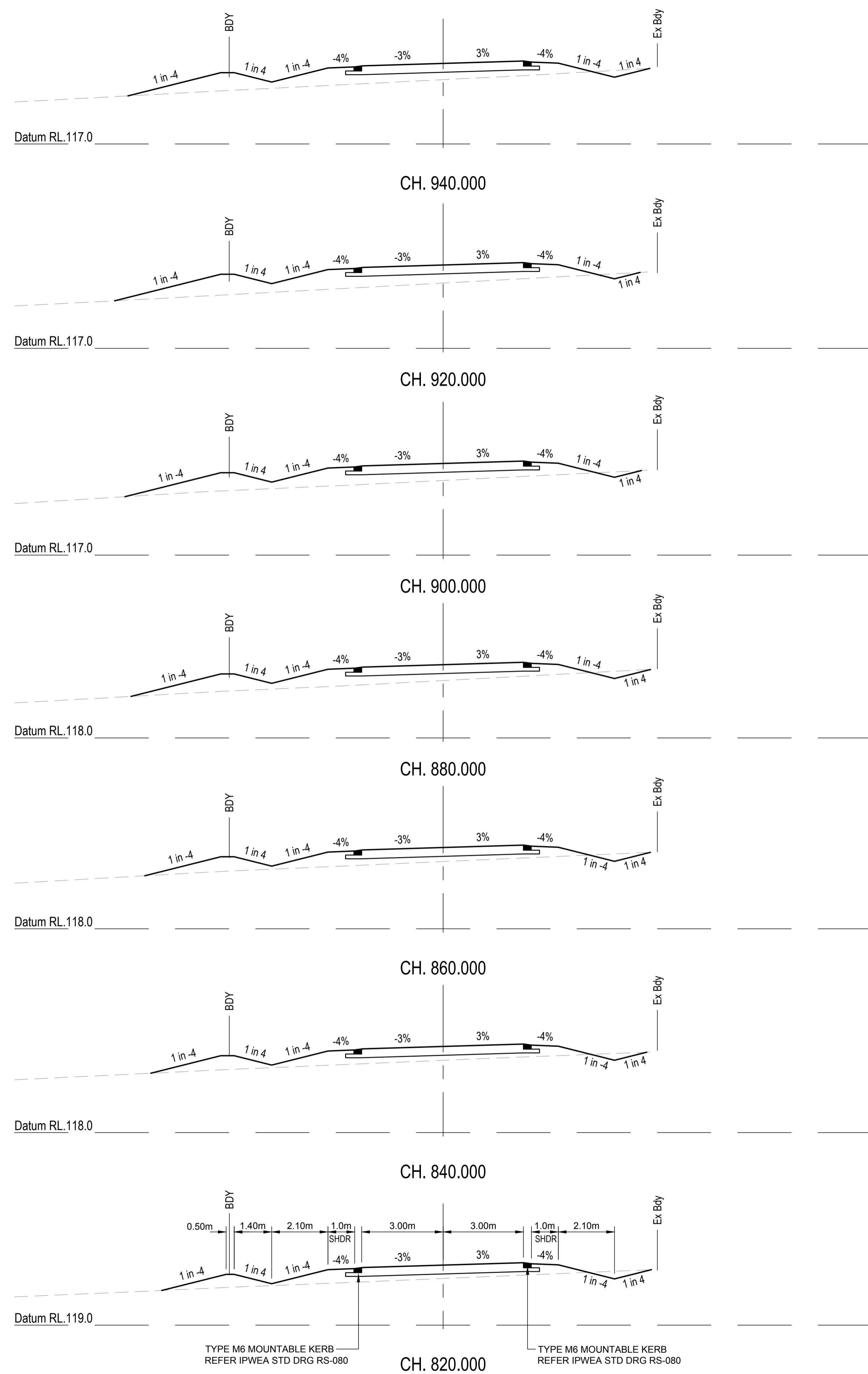
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SCALE  
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SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**ROAD CROSS SECTIONS**  
NEWLAND PLACE - SHEET 3

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4456	A	



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SCALE  
0 1 2 3 4 5m 10m  
SCALE 1:100

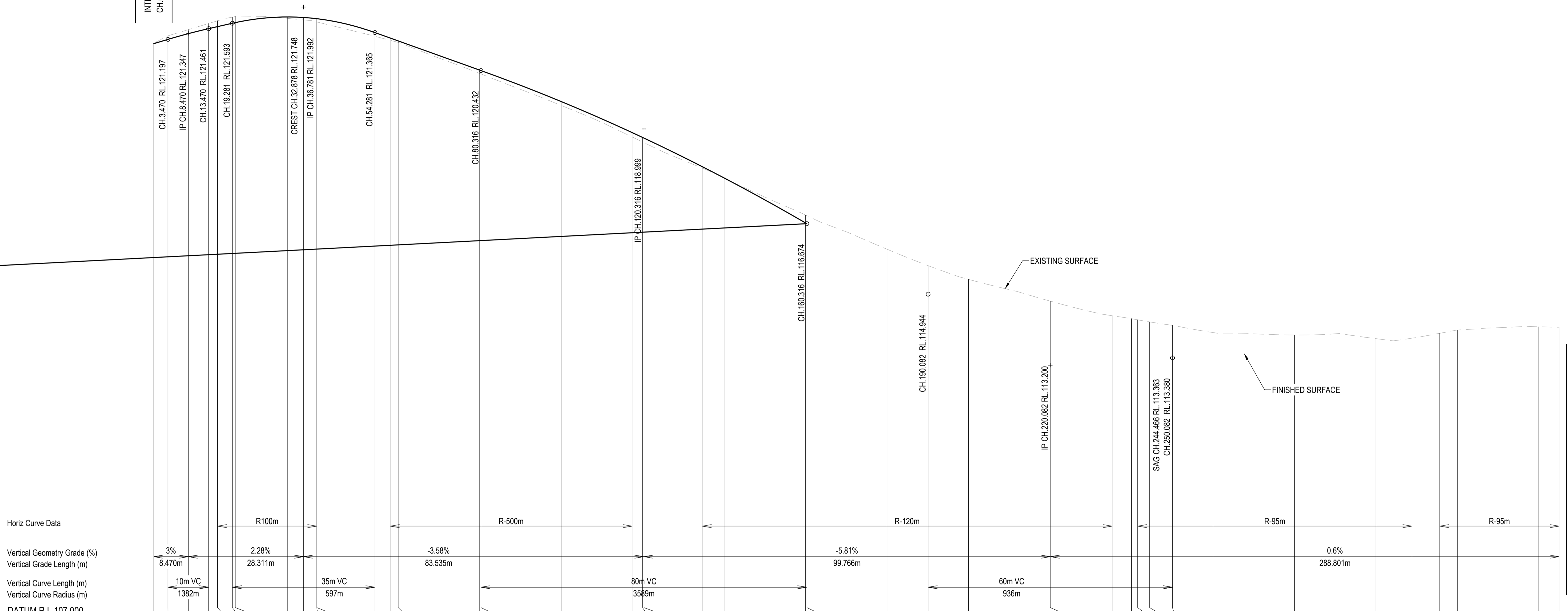
PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**ROAD CROSS SECTIONS**  
NEWLAND PLACE - SHEET 4

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4457	REVISION A	



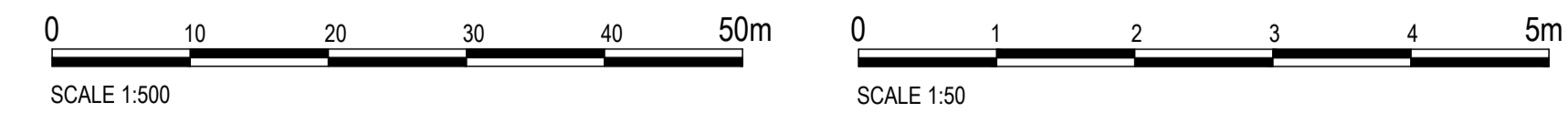
INTERSECTION - NEWLAND PLACE  
CH.0.000



Horiz Curve Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Vertical Curve Radius (m)  
DATUM R.L.107.000

CHAINAGE	0.000	3.470	8.470	13.470	15.650	19.281	20.000	32.878	36.781	40.000	40.021	54.281	58.038	60.000	80.000	80.316	100.000	117.428	120.000	120.316	134.629	140.000	160.000	160.316	180.000	190.082	200.000	220.000	220.082	235.258	240.000	241.529	244.466	250.082	260.000	280.000	300.000	308.860	315.692	320.000	340.000	345.000
NATURAL SURFACE LEVELS	121.103	121.285	121.436	121.588	121.654	121.743	121.757	121.713	121.676	121.626	121.625	121.274	121.175	121.123	120.361	120.348	119.576	118.802	118.679	118.664	118.038	117.795	116.886	116.871	116.047	115.643	115.307	114.775	114.772	114.415	114.343	114.314	114.263	114.178	114.002	113.942	113.853	113.863	113.983	114.063	114.143	114.132
CUT / FILL DEPTH	-0.010	-0.087	-0.098	-0.127	-0.143	-0.150	-0.147	0.035	0.060	0.080	0.080	0.091	0.056	0.037	0.082	0.084	0.096	0.108	0.112	0.112	0.037	0.002	-0.194	-0.197	-0.517	-0.700	-0.887	-1.092	-1.091	-1.007	-0.969	-0.947	-0.900	-0.798	-0.563	-0.382	-0.173	-0.130	-0.209	-0.264	-0.223	-0.182
DESIGN SURFACE LEVELS	121.093	121.197	121.338	121.461	121.511	121.593	121.609	121.748	121.735	121.706	121.705	121.365	121.230	121.160	120.443	120.432	119.673	118.910	118.791	118.776	118.075	117.797	116.692	116.674	115.530	114.944	114.420	113.683	113.681	113.409	113.374	113.368	113.363	113.380	113.440	113.560	113.680	113.733	113.774	113.800	113.920	113.950

LONGITUDINAL SECTION - BURTON CRESCENT  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



FOR CONTINUATION REFER DWG No. C4459

REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
A	1	ISSUED FOR APPROVAL	MP	15/04/24



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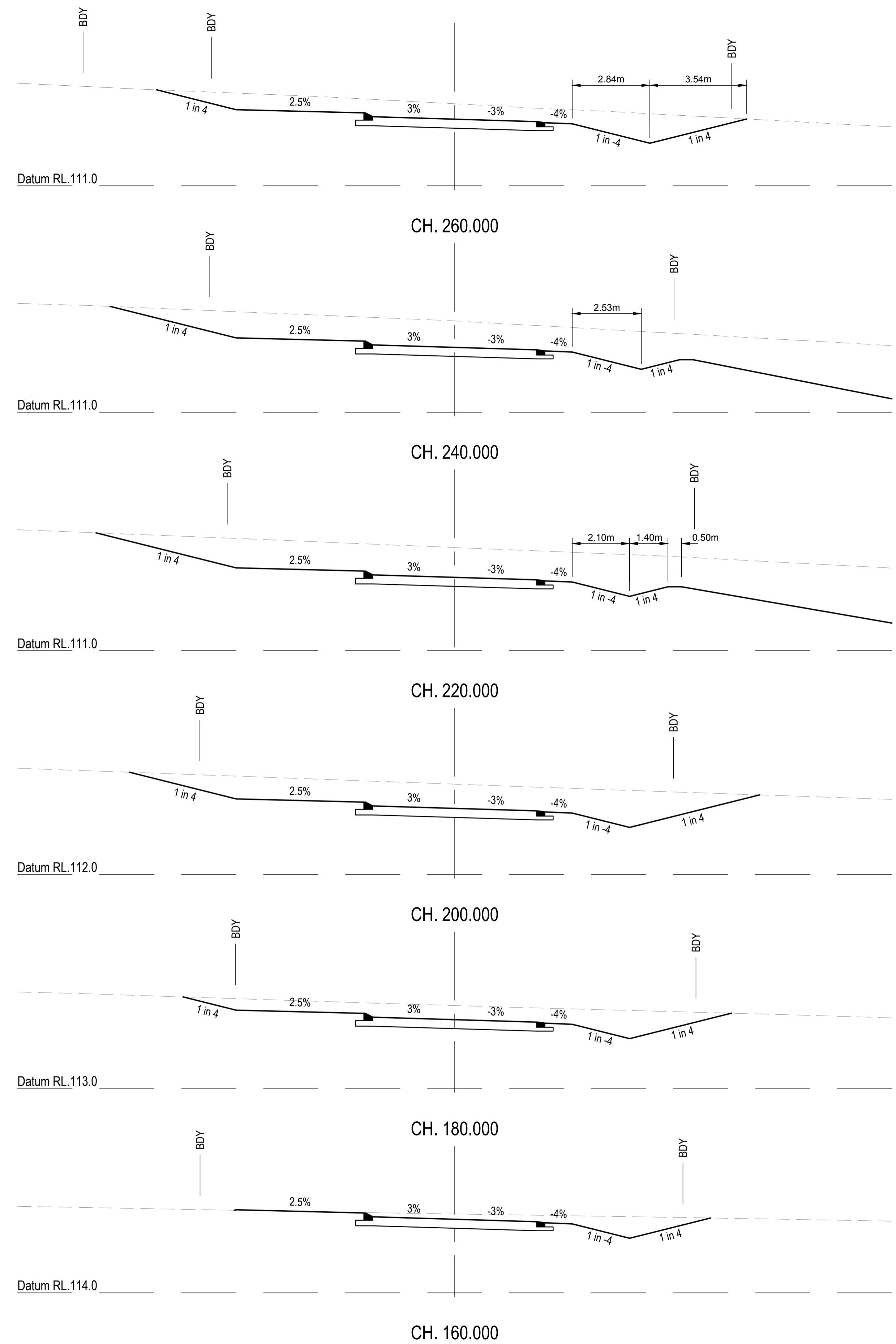
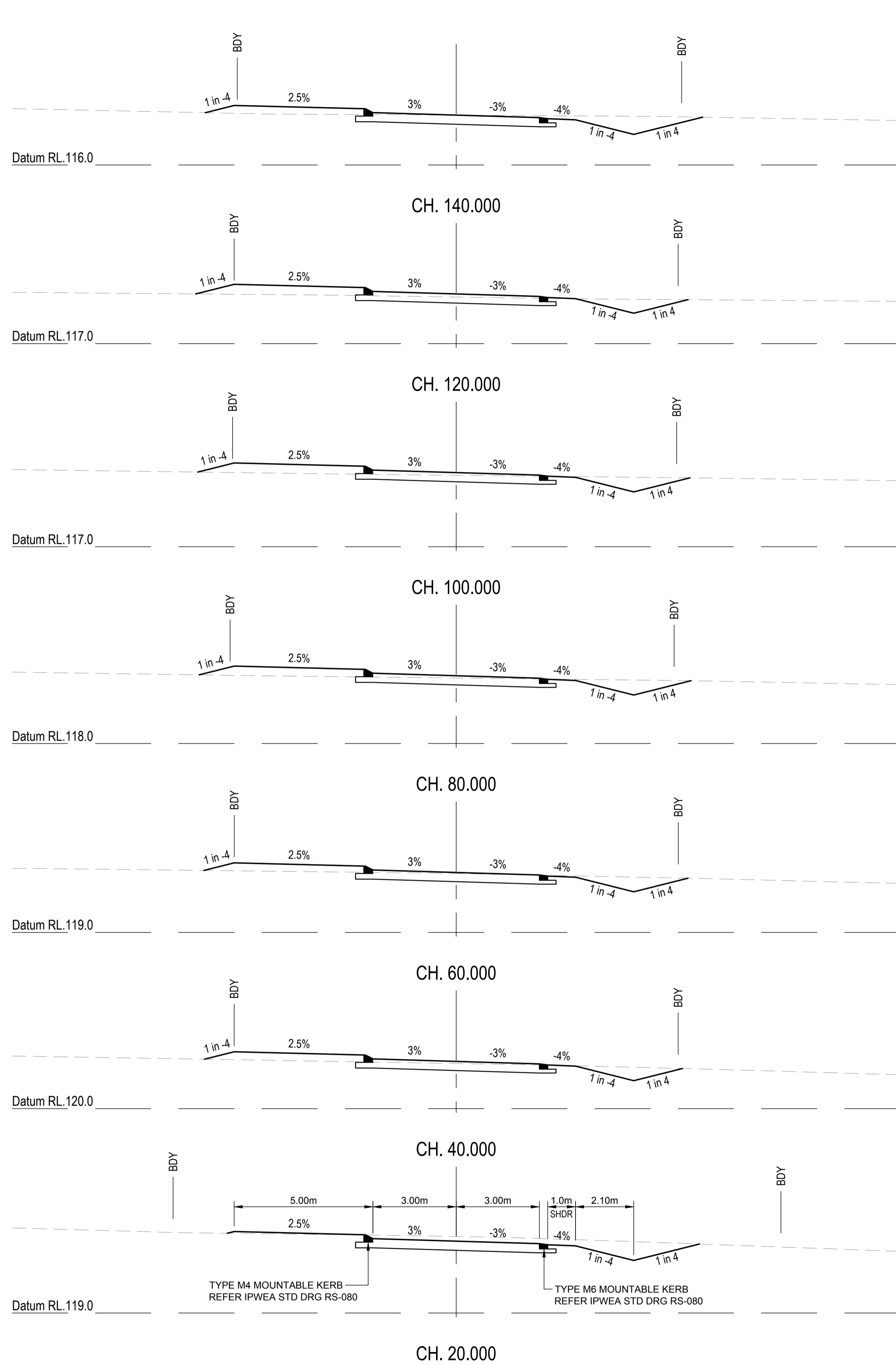
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PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**ROAD LONGITUDINAL SECTION**  
BURTON CRESCENT - SHEET 1

DRAWING STATUS			
<b>FOR APPROVAL</b>			
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PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4458	REVISION A	





REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
C	DIMENSIONS UPDATED	MP	26/06/24
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



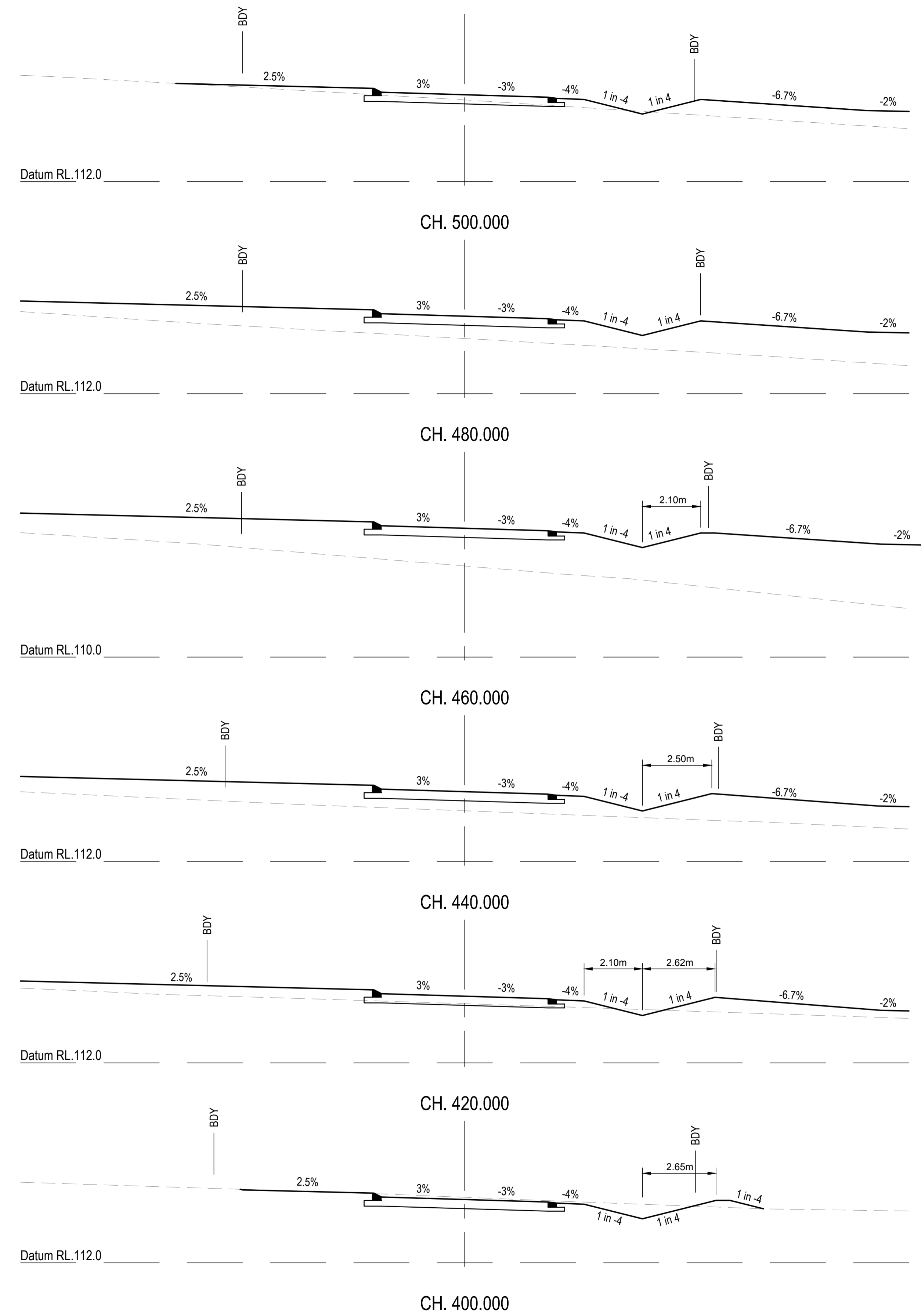
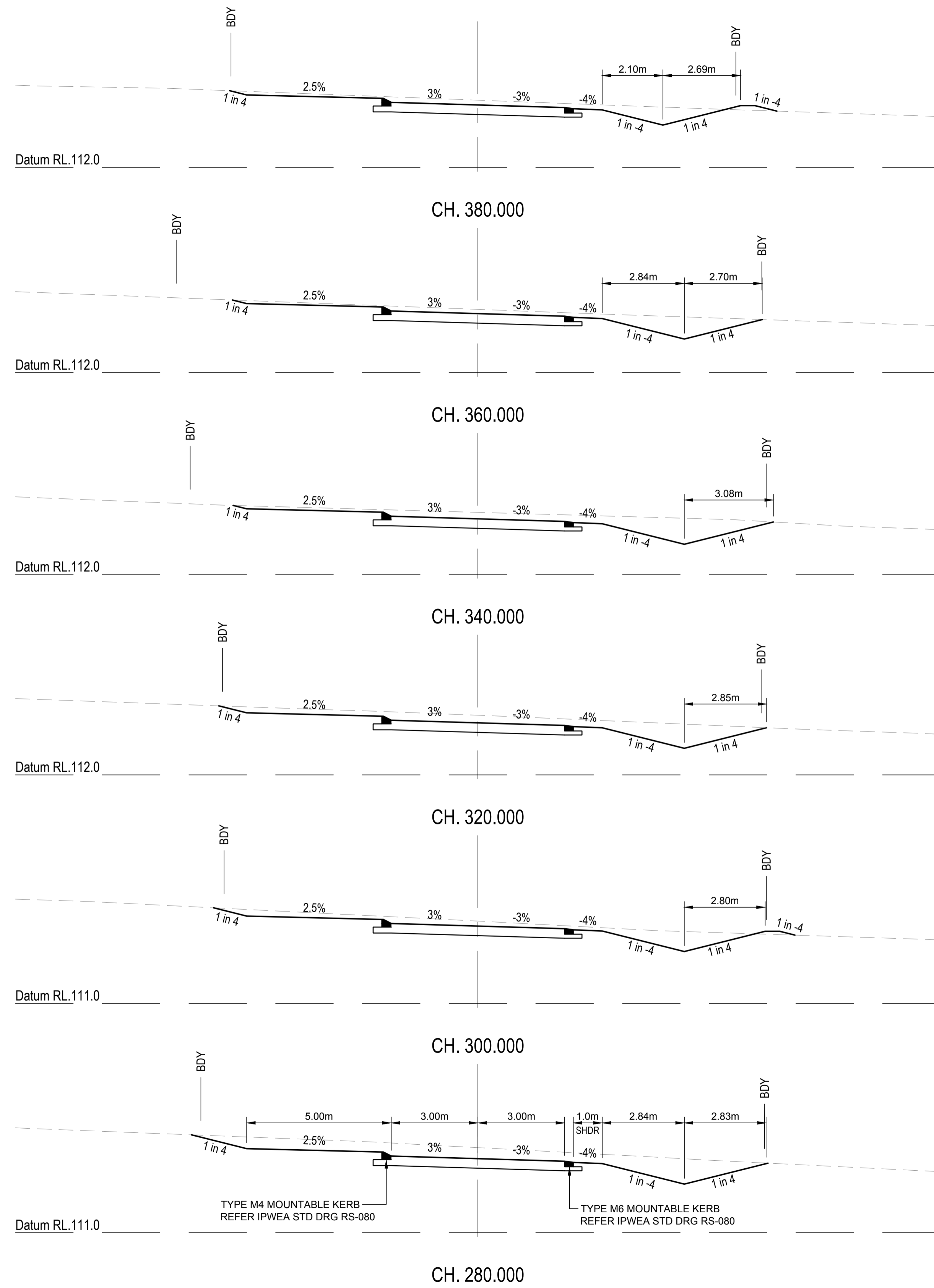
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 SCALE  
  
 SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**ROAD CROSS SECTIONS**  
 BURTON CRESCENT - SHEET 1

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4460	C	



REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
C	DIMENSIONS UPDATED	MP	26/06/24
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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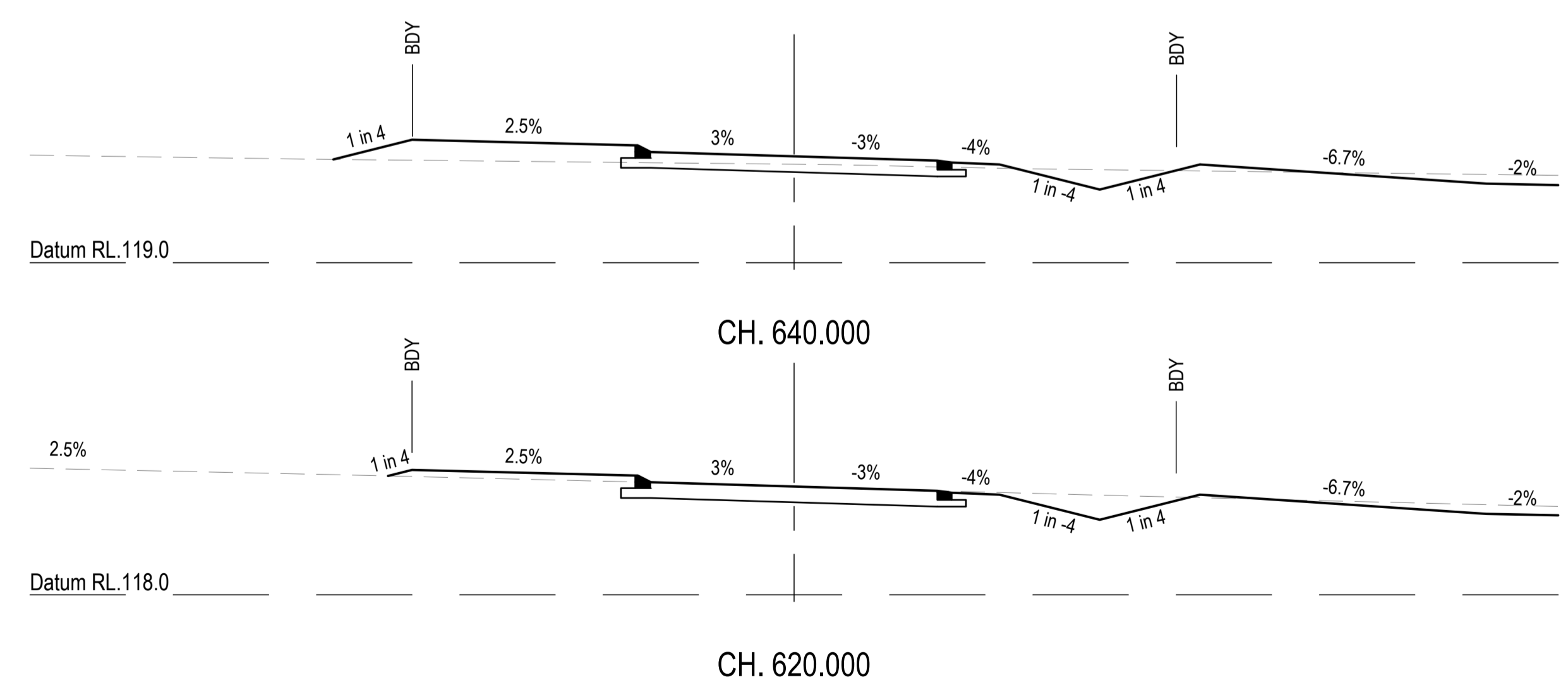
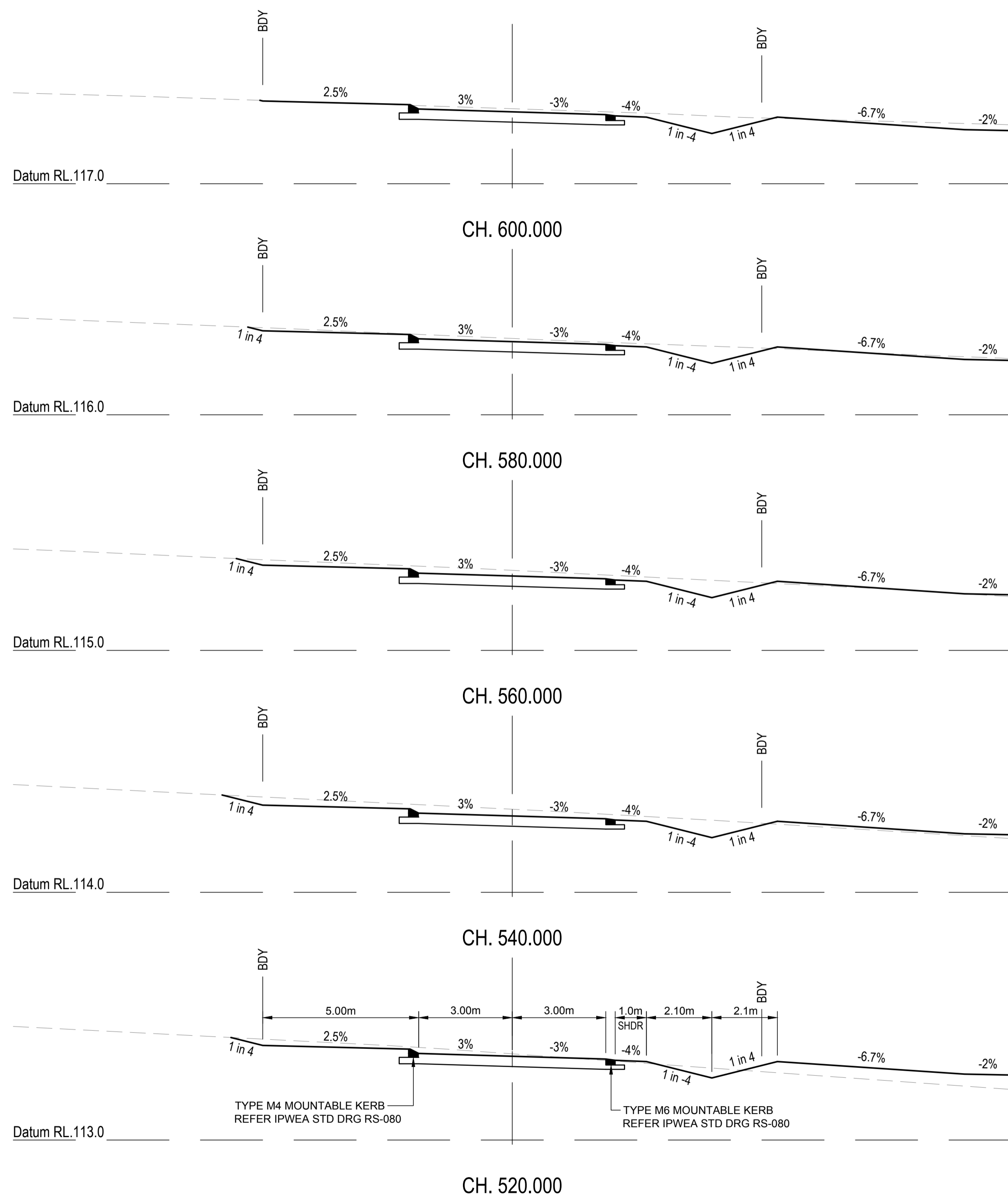
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SCALE  
0 1 2 3 4 5m 10m  
SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**ROAD CROSS SECTIONS**  
BURTON CRESCENT - SHEET 2

DRAWING STATUS			
<b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4461	C	



REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
B	DIMENSIONS UPDATED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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www.vandermeer.com.au  
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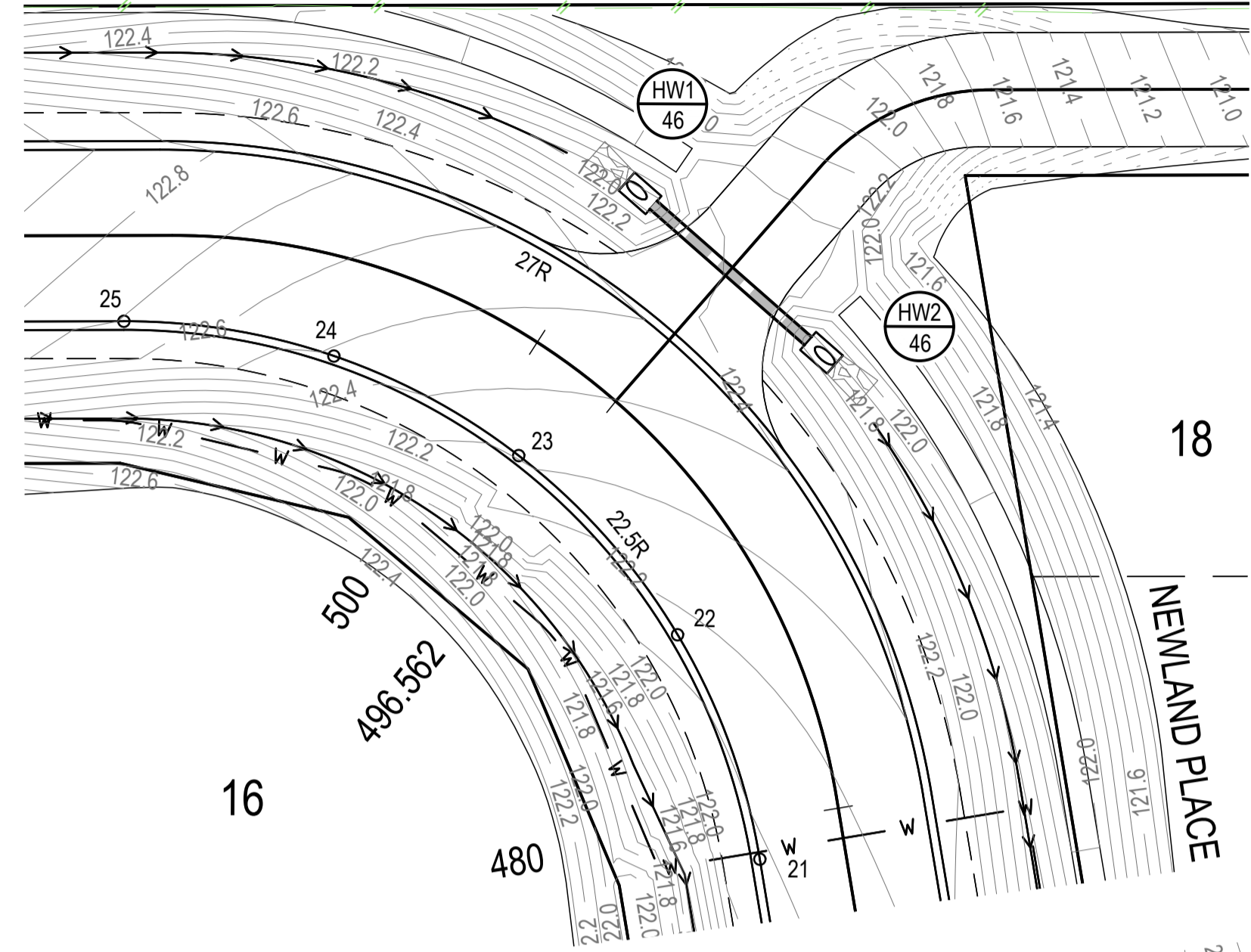
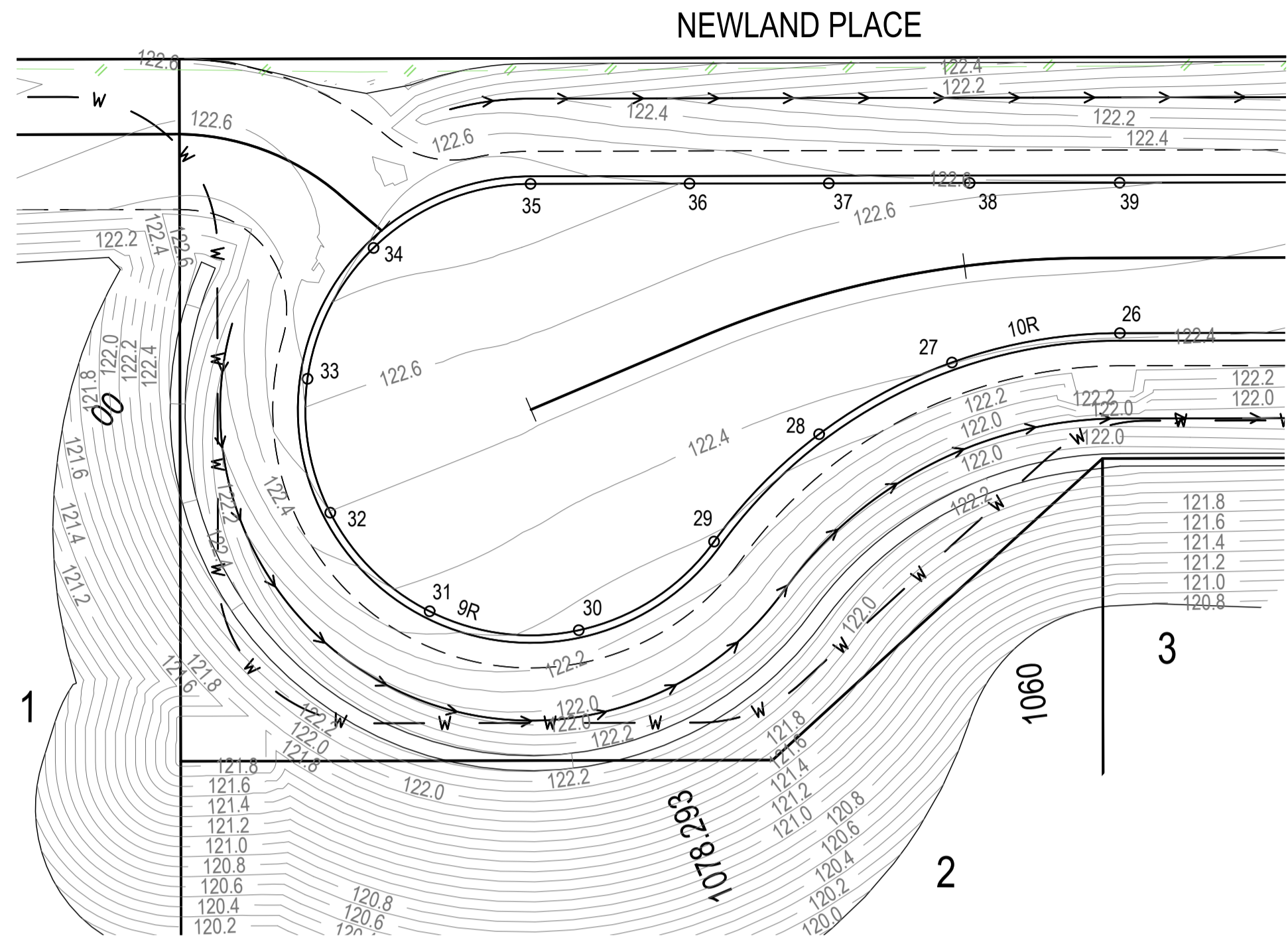
CLIENT  
**PARK LAKE ADARE PTY LTD**  
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE  
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SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**ROAD CROSS SECTIONS**  
BURTON CRESCENT - SHEET 3

DRAWING STATUS <b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4462	REVISION B	

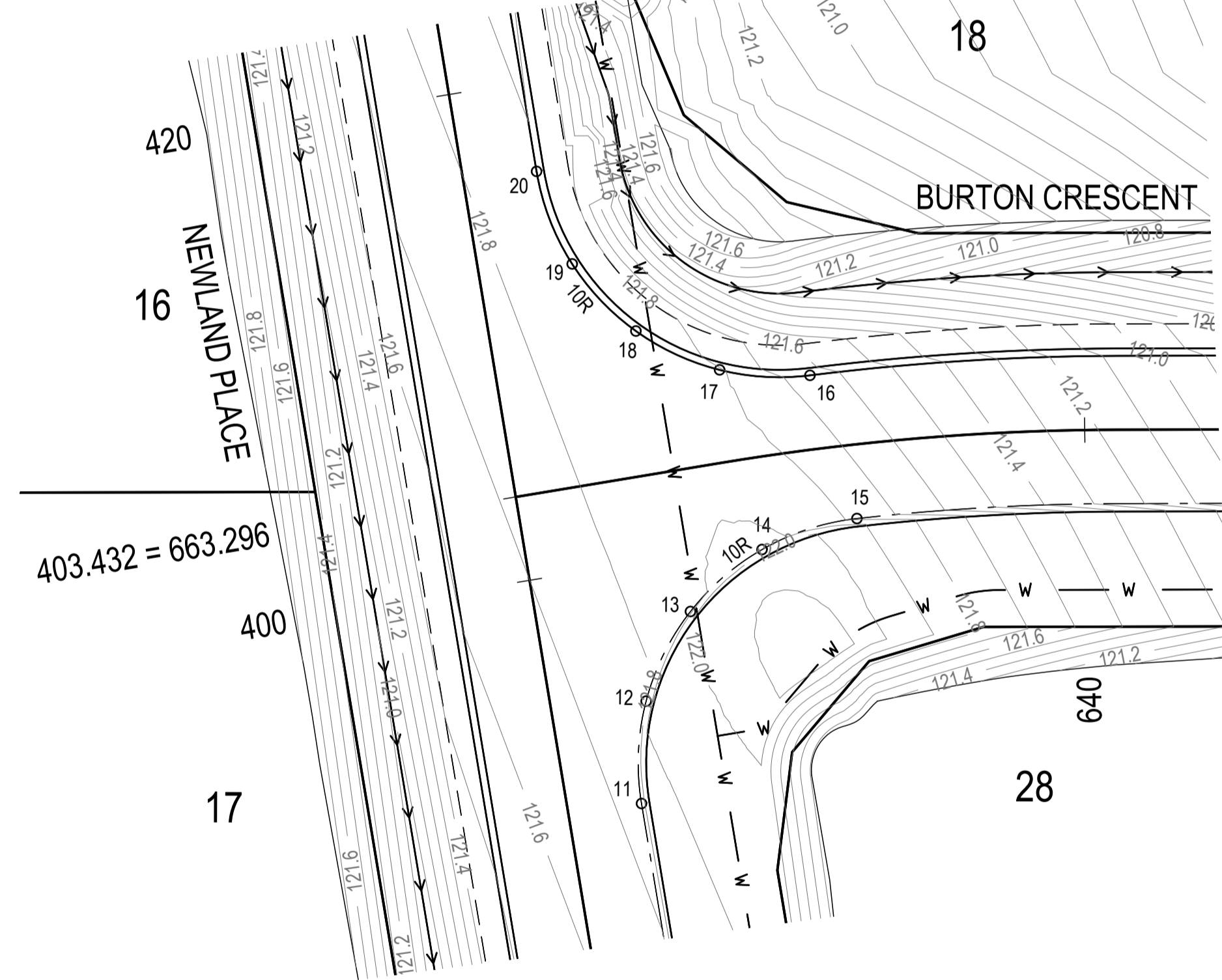
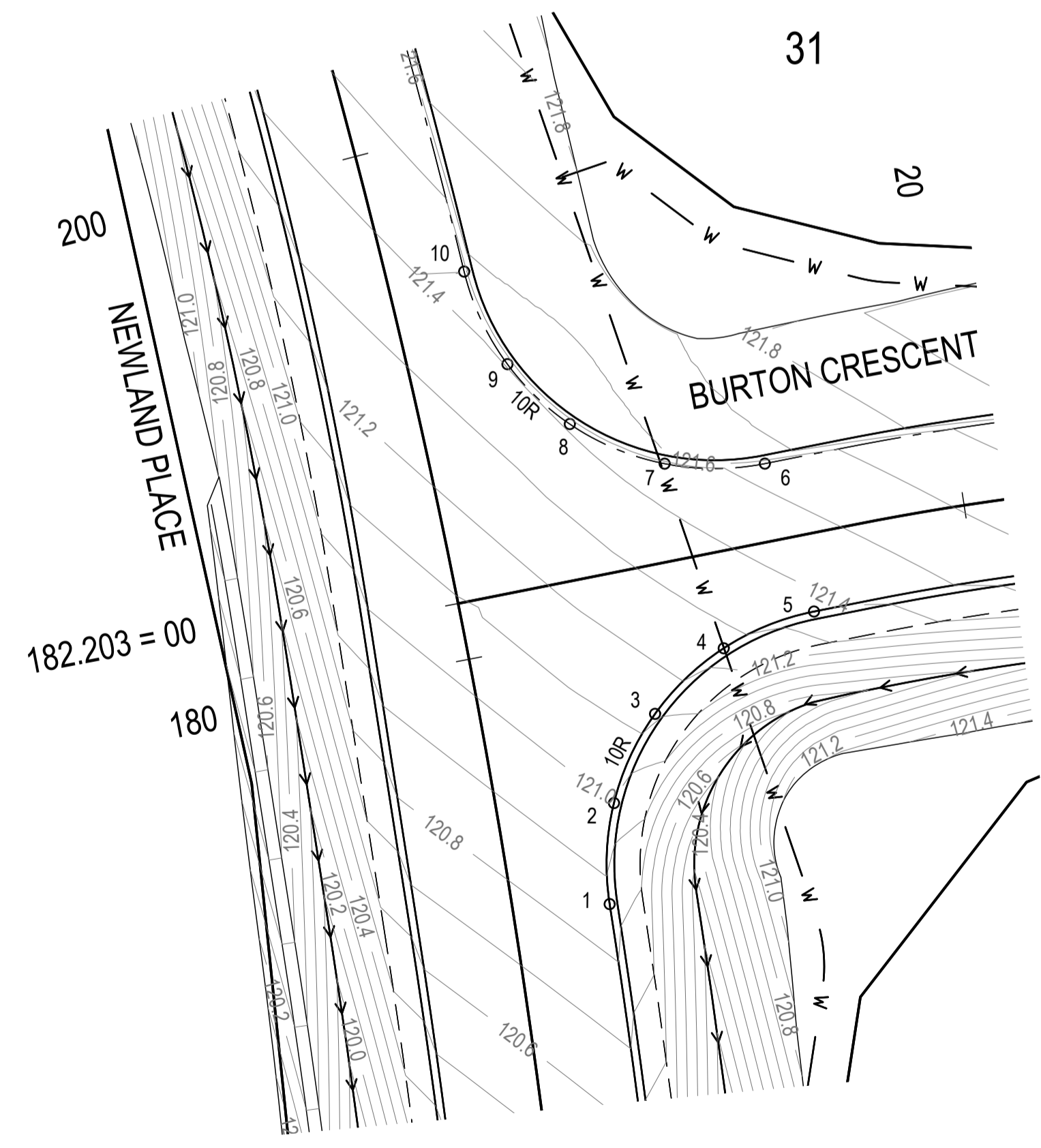


EXISTING		PROPOSED	
	FENCE		OPEN DRAIN
	OPEN DRAIN		MOUNTABLE KERB TYPE M4
	MOUNTABLE KERB TYPE M4		MOUNTABLE KERB TYPE M6
	MOUNTABLE KERB TYPE M6		CONTOUR (0.1m)
	ROAD EDGE BITUMEN		ROAD EDGE BITUMEN
	TREE TO REMAIN		ROAD SHOULDER
	TREE TO BE REMOVED		DRAINAGE

**SERVICES (PUP) LEGEND**

	EXISTING	PROPOSED
COMMUNICATIONS		
DRAINAGE (unknown dia.)		
DRAINAGE (known dia.)		
ELECTRICITY		
O/H ELECTRICITY & POLE		
GAS		
WATER MAIN		

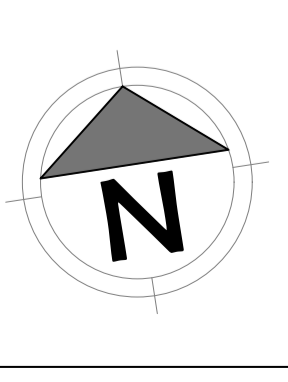
(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.



**KERB LIP SETOUT / LEVELS**

POINT	EASTING	NORTHING	LEVEL
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2	430165.305	6954712.842	120.993
3	430167.403	6954716.022	121.137
4	430170.422	6954718.135	121.268
5	430174.102	6954719.016	121.371
6	430173.084	6954724.976	121.534
7	430169.241	6954725.561	121.458
8	430165.833	6954727.639	121.410
9	430163.794	6954730.300	121.404
10	430162.676	6954734.106	121.449
11	430142.688	6954928.016	121.732
12	430143.502	6954932.097	121.870
13	430145.832	6954935.424	121.872
14	430149.086	6954937.472	121.921
15	430153.085	6954938.135	121.777
16	430152.080	6954944.172	121.654
17	430148.487	6954944.947	121.811
18	430145.364	6954947.020	121.895
19	430143.220	6954950.105	121.882
20	430142.358	6954954.041	121.888
21	430135.570	6955016.310	-999.000
22	430133.912	6955024.505	-999.000
23	430129.367	6955031.540	-999.000
24	430123.505	6955035.960	-999.000
25	430116.429	6955038.273	-999.000
26	429583.846	6955118.654	-999.000
27	429577.048	6955118.511	122.407
28	429571.379	6955116.487	122.362
29	429566.589	6955112.889	122.291
30	429560.719	6955110.210	122.270
31	429554.954	6955111.856	122.368
32	429551.630	6955116.342	122.499
33	429551.539	6955121.756	122.626
34	429554.933	6955126.515	122.739
35	429561.510	6955128.093	122.766
36	429567.779	6955127.147	122.696
37	429573.271	6955126.318	122.648
38	429578.826	6955125.479	122.618
39	429584.742	6955124.586	122.605

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
C	CONTOURS UPDATED	MP	26/06/24
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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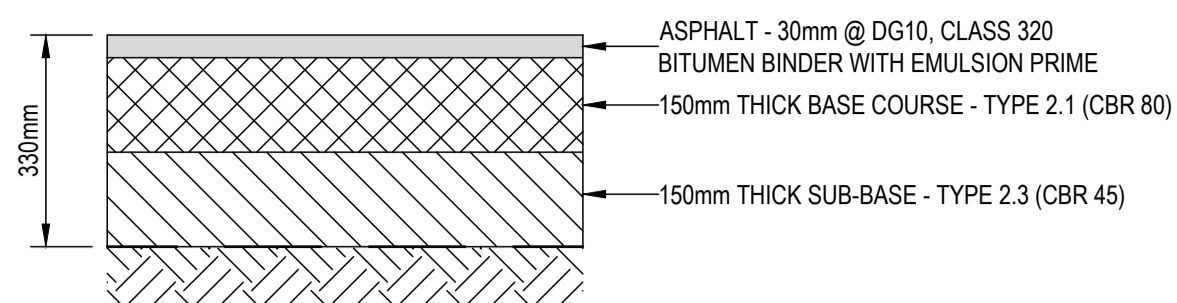
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PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

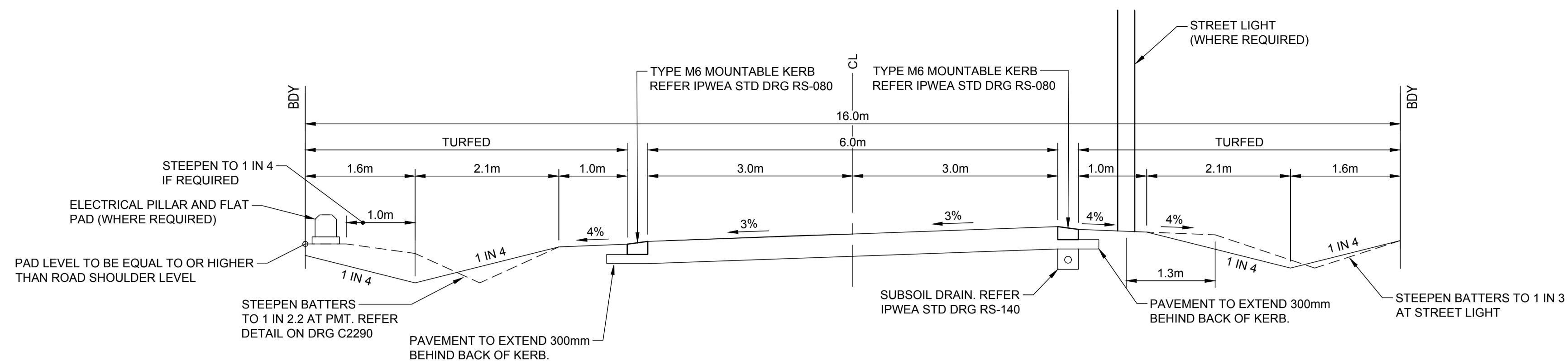
DRAWING TITLE  
**INTERSECTION DETAILS**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

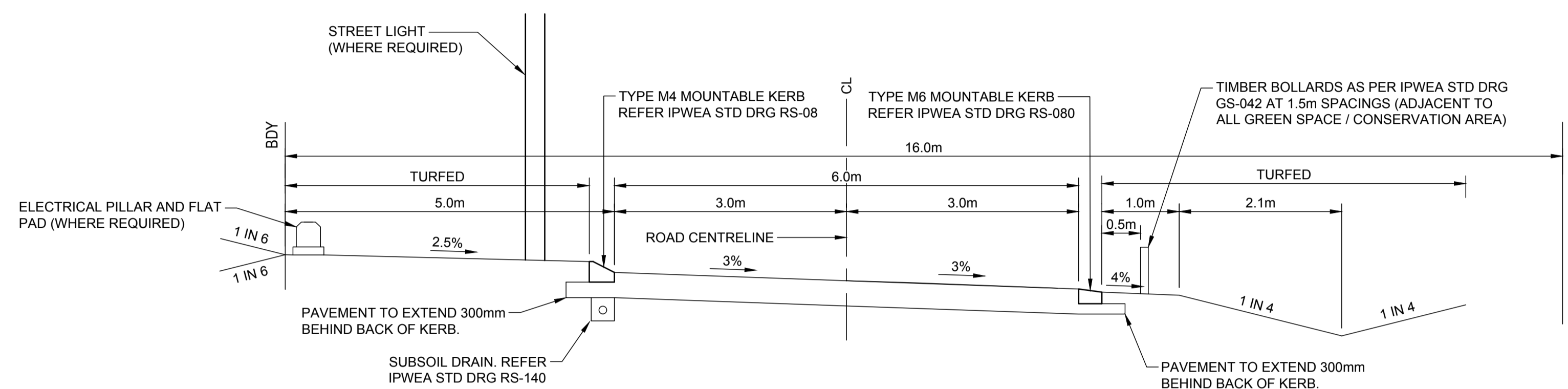
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DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4480	SHEET SIZE A1
		REVISION C



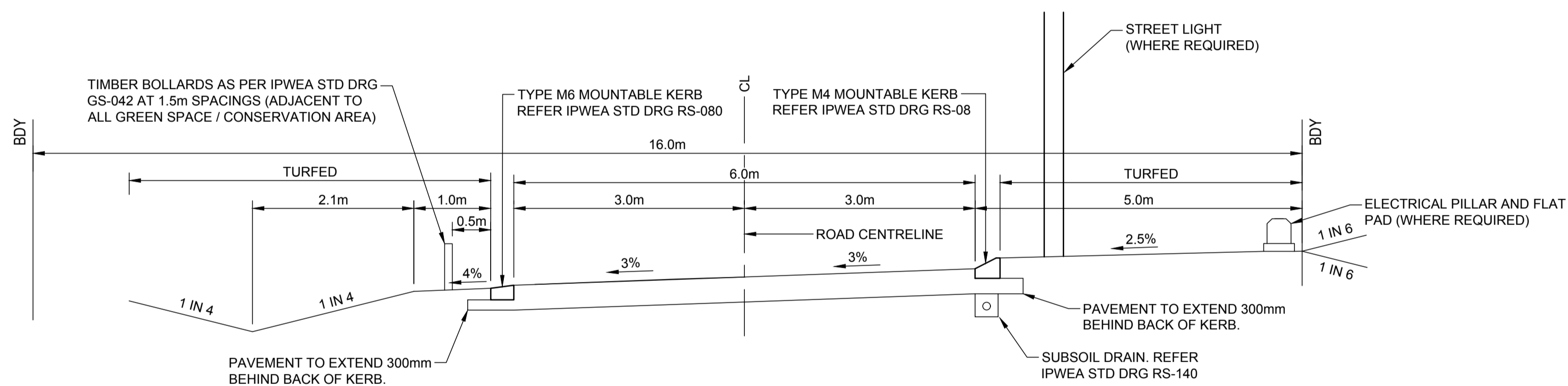
PAVEMENT 1 ACCESS STREET - 1 x 10<sup>5</sup>  
NEWLAND PLACE / BURTON CRESCENT  
330mm THICKNESS  
SCALE 1:10



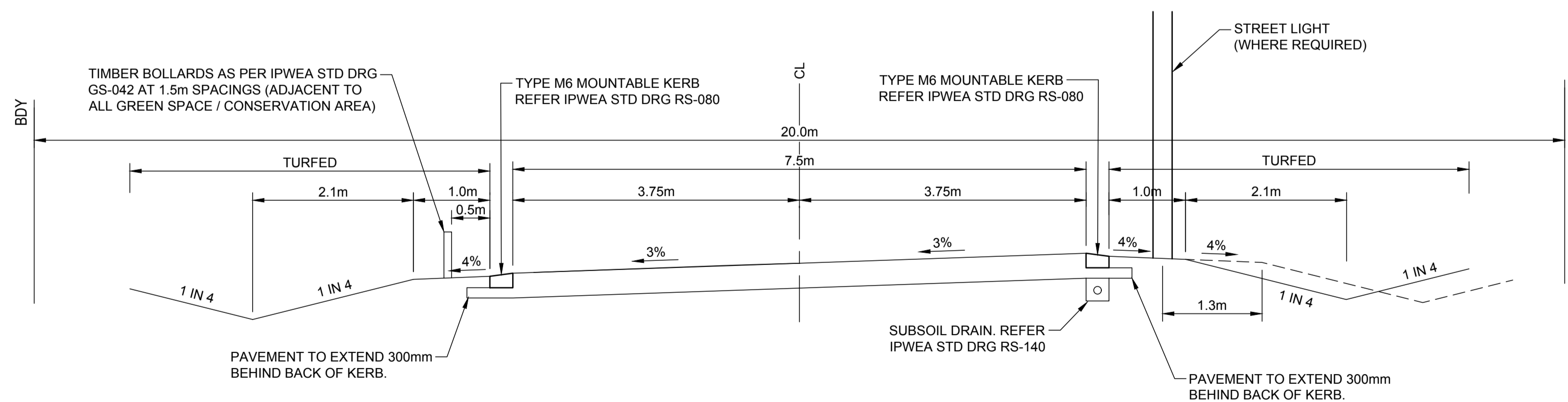
ROAD TYPICAL SECTION - NEWLAND PLACE - CH.403 TO END  
SCALE 1:50



ROAD TYPICAL SECTION - BURTON CRESCENT  
SCALE 1:50

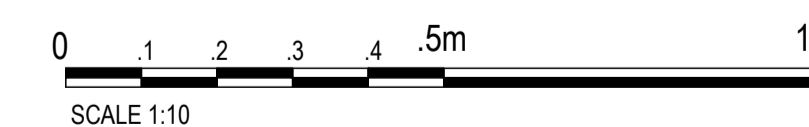


ROAD TYPICAL SECTION - NEWLAND PLACE - CH.182 TO CH.403  
SCALE 1:50



ROAD TYPICAL SECTION - NEWLAND PLACE - CH.13.245 TO CH.182  
SCALE 1:50

REFER DRAWING C4300 FOR PAVEMENT TYPE LEGEND



REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
B	SUBSOIL DRAIN EXTENT UPDATED	MP	26/06/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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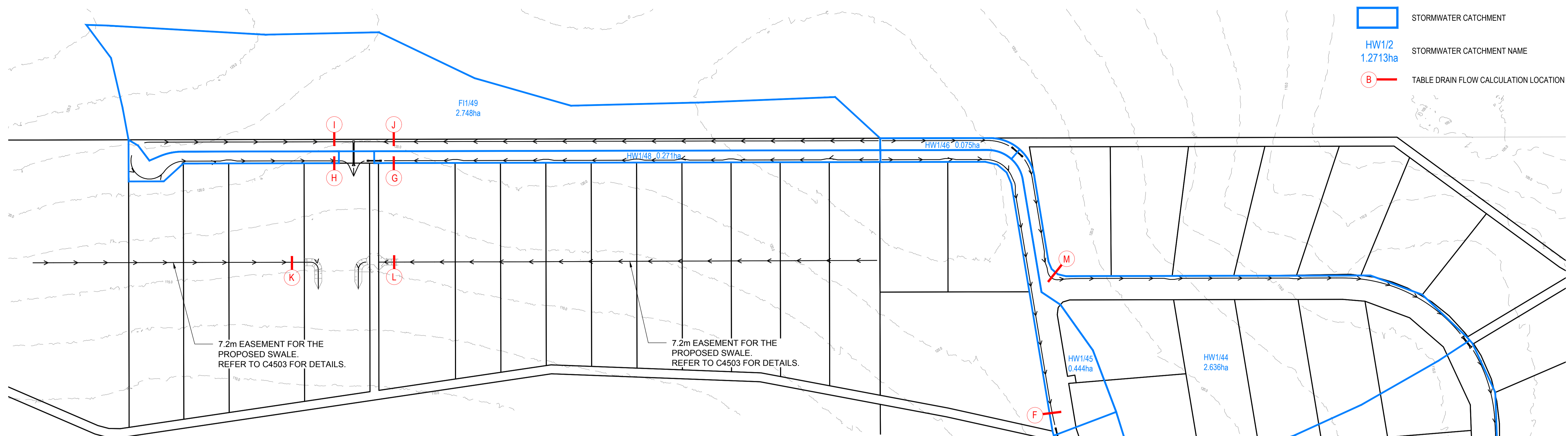
CLIENT  
**PARK LAKE ADARE PTY LTD**  
PO BOX 4107 SPRINGFIELD QLD 4300  
SCALE  
0 1 2 3 4 5m  
SCALE 1:50

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**ROADWORKS DETAILS**

DRAWING STATUS			
<b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4490	B	

**LEGEND:**

- STORMWATER CATCHMENT
- HW1/2**  
1.2713ha STORMWATER CATCHMENT NAME
- TABLE DRAIN FLOW CALCULATION LOCATION



**TABLE DRAIN CALCULATIONS - LOCATION K**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 2.174ha  
Mannings n = 0.03  
Longitudinal Grade = 0.60%  
TC = 14.6 minutes  
Q<sub>2</sub> Flow = 851l/s  
Q<sub>2</sub> Depth of flow = 402mm  
Q<sub>30</sub> Freeboard = 198mm  
Q<sub>30</sub> Velocity = 0.88m/s  
Depth x Velocity Ratio = 0.35

**TABLE DRAIN CALCULATIONS - LOCATION L**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 2.989ha  
Mannings n = 0.03  
Longitudinal Grade = 0.91%  
TC = 14.6 minutes  
Q<sub>2</sub> Flow = 1170l/s  
Q<sub>2</sub> Depth of flow = 405mm  
Q<sub>30</sub> Freeboard = 195mm  
Q<sub>30</sub> Velocity = 1.09m/s  
Depth x Velocity Ratio = 0.44

**TABLE DRAIN CALCULATIONS - LOCATION M**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.077ha  
Mannings n = 0.03  
Longitudinal Grade = 0.6%  
TC = 5 minutes  
Q<sub>2</sub> Flow = 18l/s  
Q<sub>2</sub> Depth of flow = 110mm  
Q<sub>2</sub> Freeboard = 440mm  
Q<sub>2</sub> Velocity = 0.37m/s  
Depth x Velocity Ratio = 0.04

Q<sub>30</sub> Flow = 37l/s  
Q<sub>30</sub> Depth of flow = 145mm  
Q<sub>30</sub> Freeboard = 405mm  
Q<sub>30</sub> Velocity = 0.44m/s  
Depth x Velocity Ratio = 0.07

**TABLE DRAIN CALCULATIONS - LOCATION A**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.342ha  
Mannings n = 0.03  
Longitudinal Grade = 4%  
TC = 5 minutes  
Q<sub>2</sub> Flow = 52l/s  
Q<sub>2</sub> Depth of flow = 116mm  
Q<sub>2</sub> Freeboard = 234mm  
Q<sub>2</sub> Velocity = 1.0m/s  
Depth x Velocity Ratio = 0.12

Q<sub>30</sub> Flow = 164l/s  
Q<sub>30</sub> Depth of flow = 178mm  
Q<sub>30</sub> Freeboard = 172mm  
Q<sub>30</sub> Velocity = 1.3m/s  
Depth x Velocity Ratio = 0.23

**TABLE DRAIN CALCULATIONS - LOCATION C**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.087ha  
Mannings n = 0.03  
Longitudinal Grade = 1.9%  
TC = 14.1 minutes  
Q<sub>2</sub> Flow = 117l/s  
Q<sub>2</sub> Depth of flow = 181mm  
Q<sub>2</sub> Freeboard = 369mm  
Q<sub>2</sub> Velocity = 0.9m/s  
Depth x Velocity Ratio = 0.17

Q<sub>30</sub> Flow = 369l/s  
Q<sub>30</sub> Depth of flow = 277mm  
Q<sub>30</sub> Freeboard = 273mm  
Q<sub>30</sub> Velocity = 1.2m/s  
Depth x Velocity Ratio = 0.33

**TABLE DRAIN CALCULATIONS - LOCATION E**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.239ha  
Mannings n = 0.03  
Longitudinal Grade = 0.5%  
TC = 5 minutes  
Q<sub>2</sub> Flow = 36l/s  
Q<sub>2</sub> Depth of flow = 150mm  
Q<sub>2</sub> Freeboard = 400mm  
Q<sub>2</sub> Velocity = 0.4m/s  
Depth x Velocity Ratio = 0.06

Q<sub>30</sub> Flow = 115l/s  
Q<sub>30</sub> Depth of flow = 230mm  
Q<sub>30</sub> Freeboard = 320mm  
Q<sub>30</sub> Velocity = 0.6m/s  
Depth x Velocity Ratio = 0.14

**TABLE DRAIN CALCULATIONS - LOCATION G**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.271ha  
Mannings n = 0.03  
Longitudinal Grade = 1.3%  
TC = 5 minutes  
Q<sub>2</sub> Flow = 41l/s  
Q<sub>2</sub> Depth of flow = 130mm  
Q<sub>2</sub> Freeboard = 220mm  
Q<sub>2</sub> Velocity = 0.5m/s  
Depth x Velocity Ratio = 0.07

Q<sub>30</sub> Flow = 130l/s  
Q<sub>30</sub> Depth of flow = 201mm  
Q<sub>30</sub> Freeboard = 149mm  
Q<sub>30</sub> Velocity = 0.8m/s  
Depth x Velocity Ratio = 0.16

**TABLE DRAIN CALCULATIONS - LOCATION I**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.010ha  
Mannings n = 0.03  
Longitudinal Grade = 1.3%  
TC = 10.6 minutes  
Q<sub>2</sub> Flow = 123l/s  
Q<sub>2</sub> Depth of flow = 197mm  
Q<sub>2</sub> Freeboard = 353mm  
Q<sub>2</sub> Velocity = 0.8m/s  
Depth x Velocity Ratio = 0.16

Q<sub>30</sub> Flow = 181l/s  
Q<sub>30</sub> Depth of flow = 269mm  
Q<sub>30</sub> Freeboard = 281mm  
Q<sub>30</sub> Velocity = 1.0m/s  
Depth x Velocity Ratio = 0.27

**TABLE DRAIN CALCULATIONS - LOCATION B**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.078ha  
Mannings n = 0.03  
Longitudinal Grade = 4%  
TC = 13.5 minutes  
Q<sub>2</sub> Flow = 119l/s  
Q<sub>2</sub> Depth of flow = 158mm  
Q<sub>2</sub> Freeboard = 392mm  
Q<sub>2</sub> Velocity = 1.2m/s  
Depth x Velocity Ratio = 0.19

Q<sub>30</sub> Flow = 372l/s  
Q<sub>30</sub> Depth of flow = 242mm  
Q<sub>30</sub> Freeboard = 308mm  
Q<sub>30</sub> Velocity = 1.8m/s  
Depth x Velocity Ratio = 0.44

**TABLE DRAIN CALCULATIONS - LOCATION D**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 4.074ha  
Mannings n = 0.03  
Longitudinal Grade = 0.56%  
TC = 16.2 minutes  
Q<sub>2</sub> Flow = 410l/s  
Q<sub>2</sub> Depth of flow = 362mm  
Q<sub>2</sub> Freeboard = 0mm  
Q<sub>2</sub> Velocity = 0.9m/s  
Depth x Velocity Ratio = 0.31

Q<sub>30</sub> Flow = 1296 l/s  
Q<sub>30</sub> Depth of flow = 558mm  
Q<sub>30</sub> Freeboard = 152mm  
Q<sub>30</sub> Velocity = 1.0m/s  
Depth x Velocity Ratio = 0.56

**TABLE DRAIN CALCULATIONS - LOCATION F**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.443ha  
Mannings n = 0.03  
Longitudinal Grade = 0.5%  
TC = 5 minutes  
Q<sub>2</sub> Flow = 67l/s  
Q<sub>2</sub> Depth of flow = 187mm  
Q<sub>2</sub> Freeboard = 363mm  
Q<sub>2</sub> Velocity = 0.5m/s  
Depth x Velocity Ratio = 0.09

Q<sub>30</sub> Flow = 212l/s  
Q<sub>30</sub> Depth of flow = 289mm  
Q<sub>30</sub> Freeboard = 261mm  
Q<sub>30</sub> Velocity = 0.6m/s  
Depth x Velocity Ratio = 0.19

**TABLE DRAIN CALCULATIONS - LOCATION H**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.147ha  
Mannings n = 0.03  
Longitudinal Grade = 1.2%  
TC = 5 minutes  
Q<sub>2</sub> Flow = 22l/s  
Q<sub>2</sub> Depth of flow = 105mm  
Q<sub>2</sub> Freeboard = 245mm  
Q<sub>2</sub> Velocity = 0.5m/s  
Depth x Velocity Ratio = 0.05

Q<sub>30</sub> Flow = 70l/s  
Q<sub>30</sub> Depth of flow = 162mm  
Q<sub>30</sub> Freeboard = 188mm  
Q<sub>30</sub> Velocity = 0.7m/s  
Depth x Velocity Ratio = 0.11

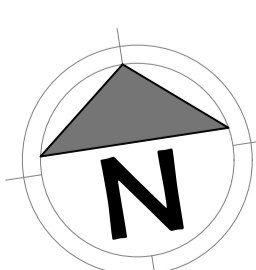
**TABLE DRAIN CALCULATIONS - LOCATION J**  
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.738ha  
Mannings n = 0.03  
Longitudinal Grade = 1.3%  
TC = 10.6 minutes  
Q<sub>2</sub> Flow = 212l/s  
Q<sub>2</sub> Depth of flow = 245mm  
Q<sub>2</sub> Freeboard = 305mm  
Q<sub>2</sub> Velocity = 0.9m/s  
Depth x Velocity Ratio = 0.22

Q<sub>30</sub> Flow = 483l/s  
Q<sub>30</sub> Depth of flow = 334mm  
Q<sub>30</sub> Freeboard = 216mm  
Q<sub>30</sub> Velocity = 1.1m/s  
Depth x Velocity Ratio = 0.37

**REVISIONS:**

No.	REVISION DESCRIPTION	DRAWN	DATE
C	ISSUE FOR APPROVAL	MA	06/06/24
B	ISSUE FOR APPROVAL	MA	24/05/24
A	ISSUE FOR APPROVAL	MP	15/04/24



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IF IN DOUBT ASK.

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

SCALE  
0 10 20 30 40 50m 100m  
SCALE 1:1000

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**DRAINAGE CATCHMENT PLAN**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

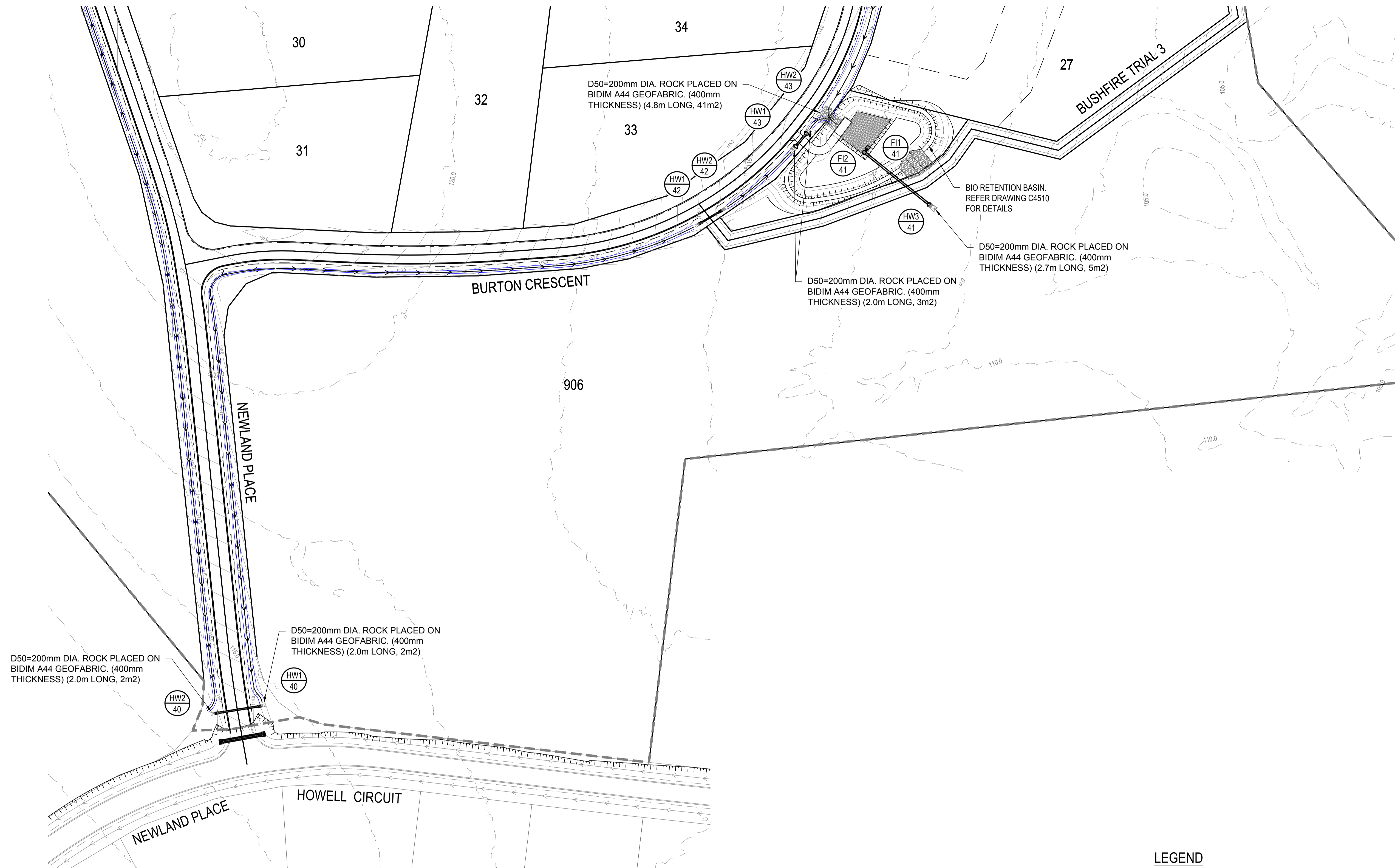
PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTER/PERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1

JOB No.	DRAWING No.	REVISION
BR242001	C4500	C



FOR CONTINUATION REFER DWG No. C4502



**SERVICES (PUP) LEGEND**

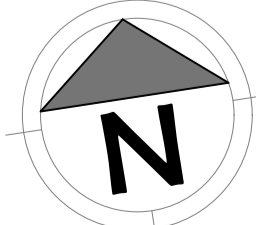
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

**LEGEND**

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
KERB AND CHANNEL	MOUNTABLE KERB TYPE M6
KERB ONLY	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	Q50 FLOODED WIDTH

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:	No.	REVISION DESCRIPTION	DRAWN	DATE
B	1	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	1	ISSUED FOR APPROVAL	MP	15/04/24



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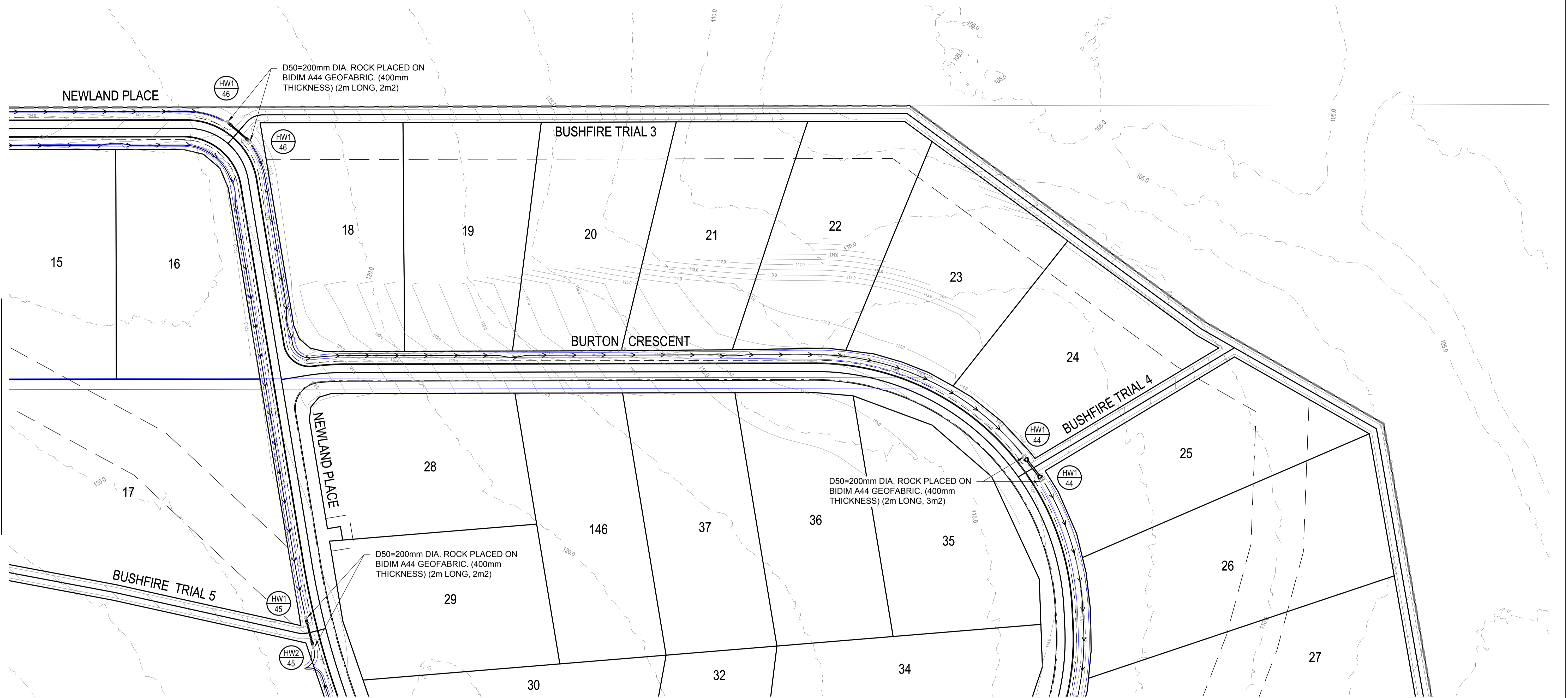
CLIENT  
**PARK LAKE ADARE PTY LTD**  
 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE  
 0 7.5 15 22.5 30 37.5m 75m  
 SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**DRAINAGE PLAN SHEET 1**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4501	SHEET SIZE A1
		REVISION B

OR CONTINUATION REFER DWG No. C4503



FOR CONTINUATION REFER DWG No. C4501

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

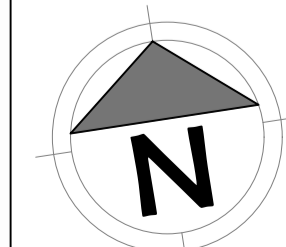
LEGEND

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- KERB AND CHANNEL	--- MOUNTABLE KERB TYPE M6
--- KERB ONLY	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	--- Q50 FLOODED WIDTH

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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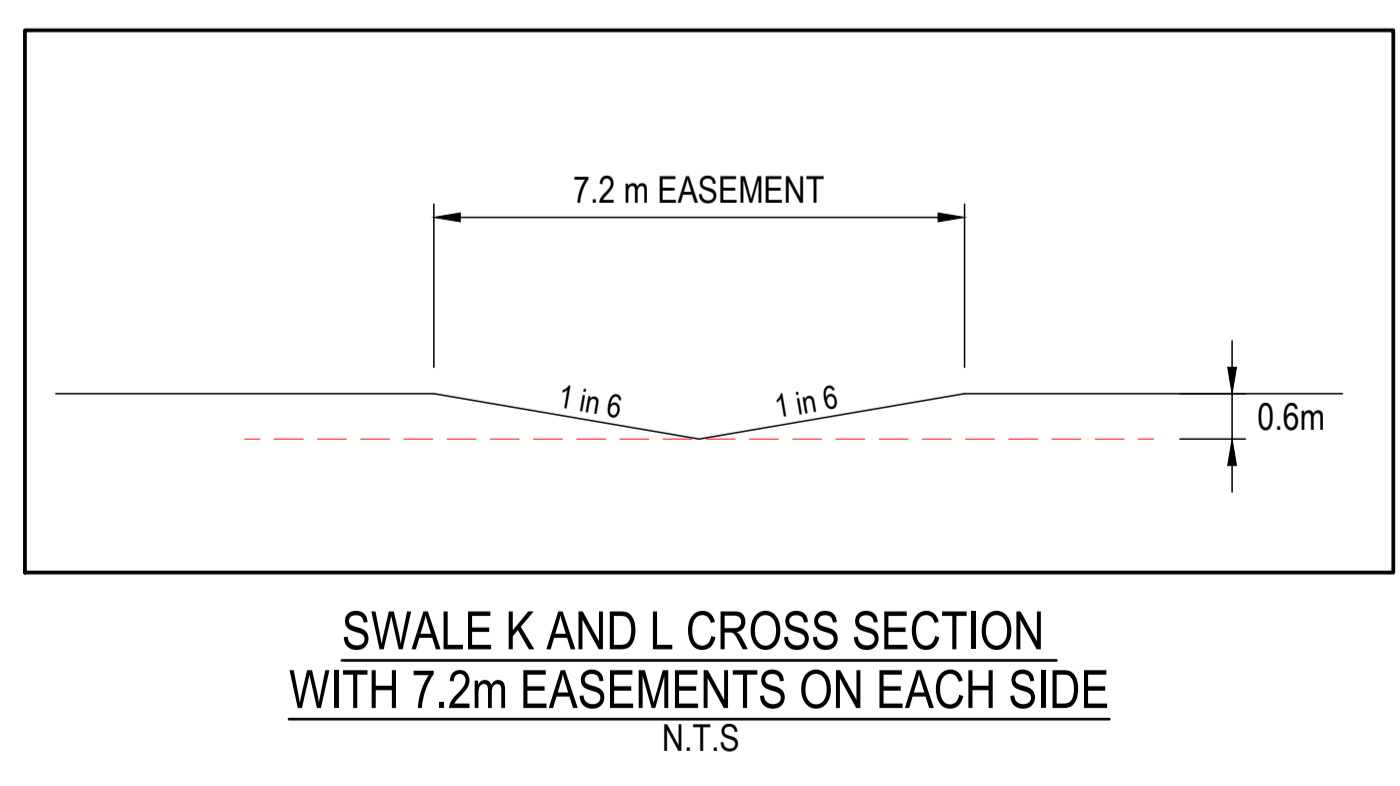
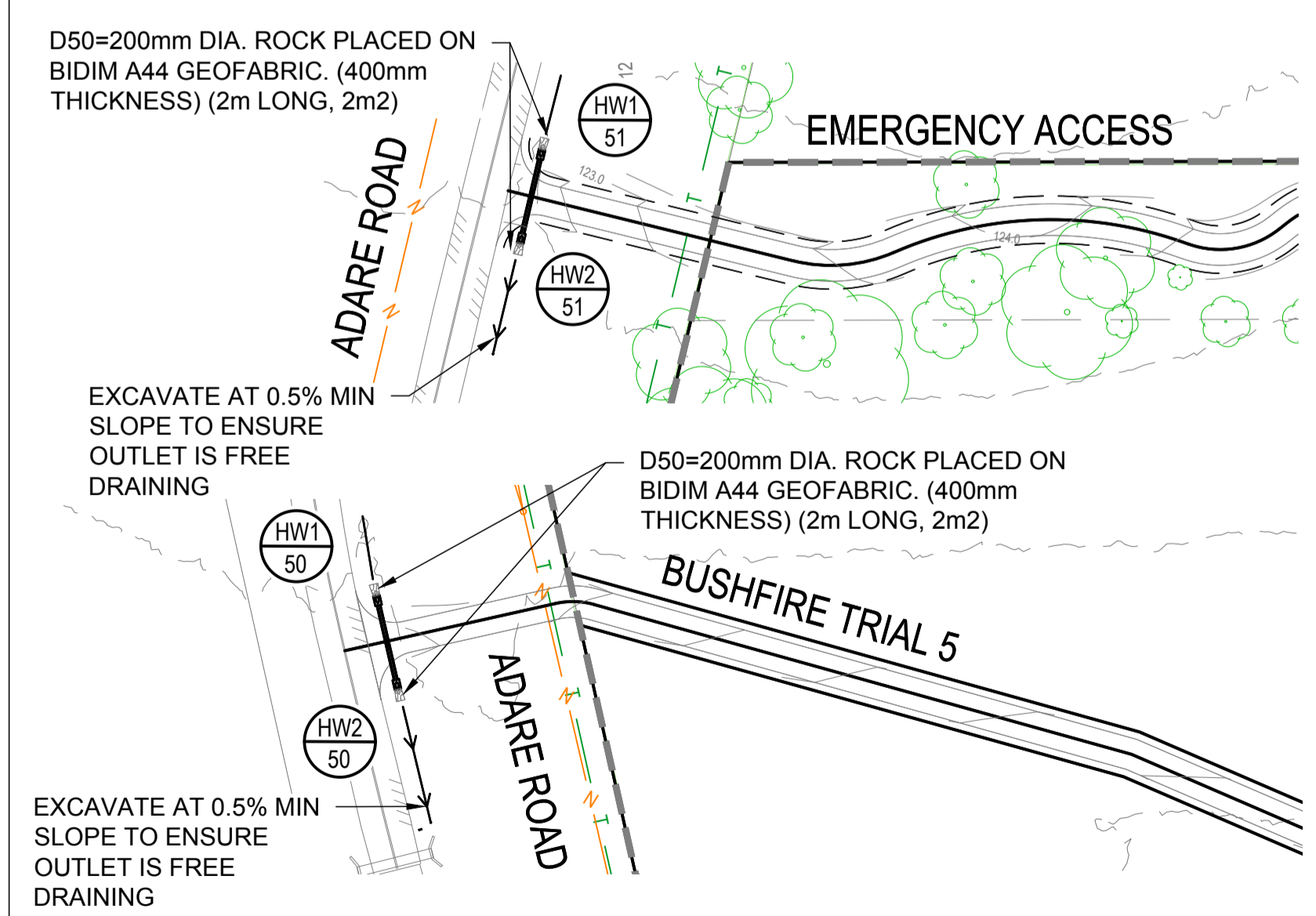
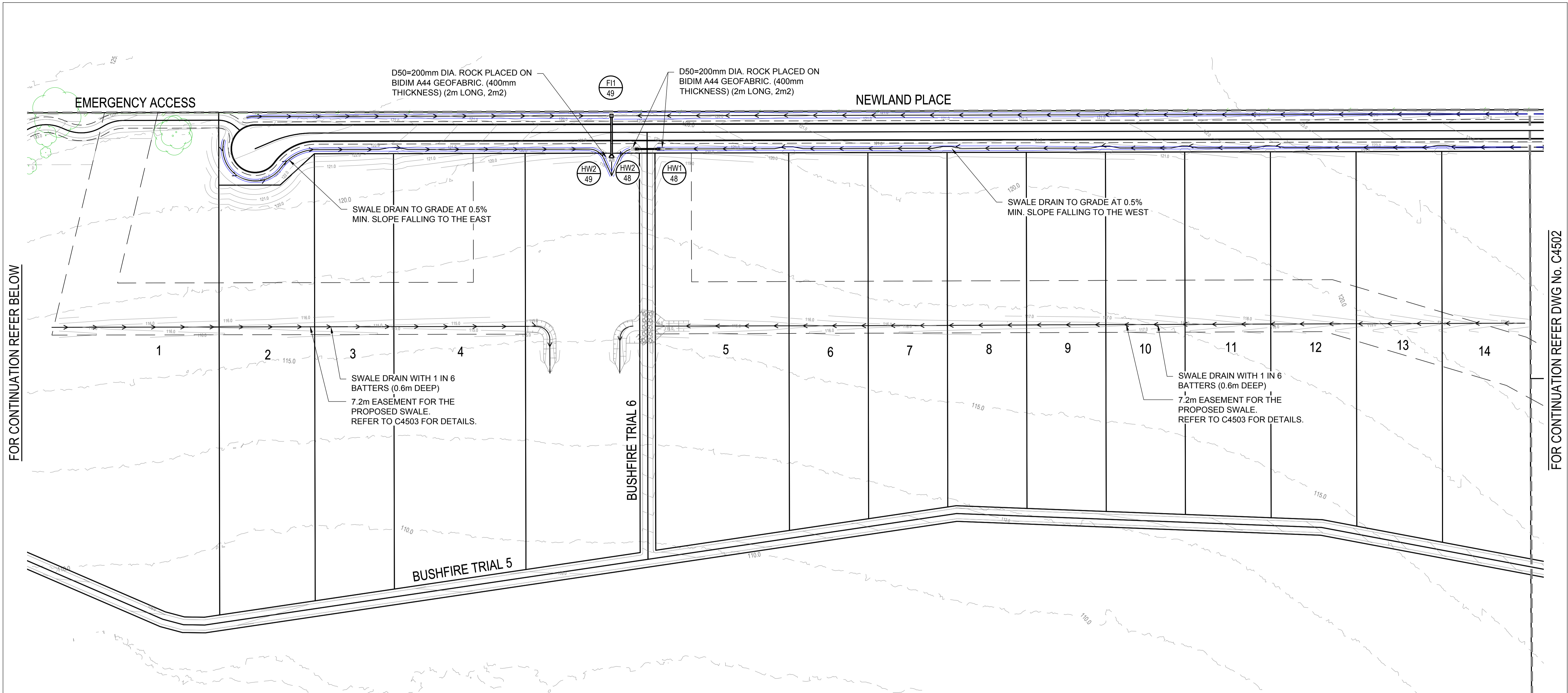
SCALE  
0 7.5 15 22.5 30 37.5m 75m  
SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**DRAINAGE PLAN SHEET 2**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4502		B



**SERVICES (PUP) LEGEND**

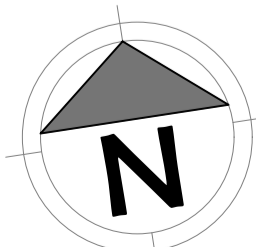
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

**LEGEND**

EXISTING	PROPOSED
FENCE	EASEMENT BOUNDARY
OPEN DRAIN	OPEN DRAIN
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (1.0m)	CONTOUR (0.5m)
ROAD EDGE BITUMEN	ROAD EDGE BITUMEN
TREE TO REMAIN	ROAD SHOULDER
TREE TO BE REMOVED	DRAINAGE
	Q50 FLOODED WIDTH

**REVISIONS:**

No.	REVISION DESCRIPTION	DRAWN	DATE
D	ISSUE FOR APPROVAL	MA	06/06/24
C	ISSUE FOR APPROVAL	MA	24/05/24
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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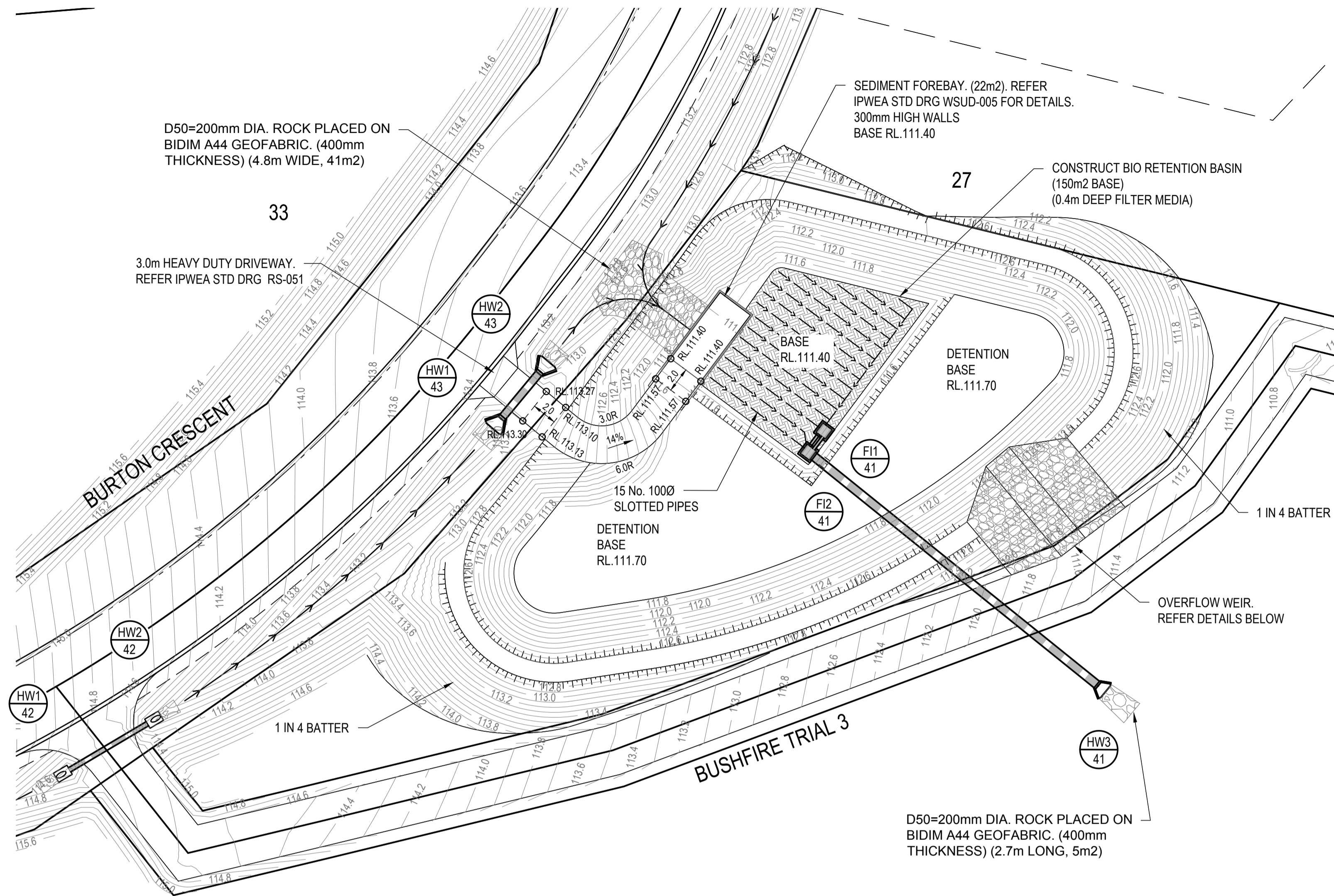
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0 7.5 15 22.5 30 37.5m 75m  
SCALE 1:750

**PROJECT TITLE**  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

**DRAWING TITLE**  
**DRAINAGE PLAN SHEET 3**

**DRAWING STATUS**  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4503		D



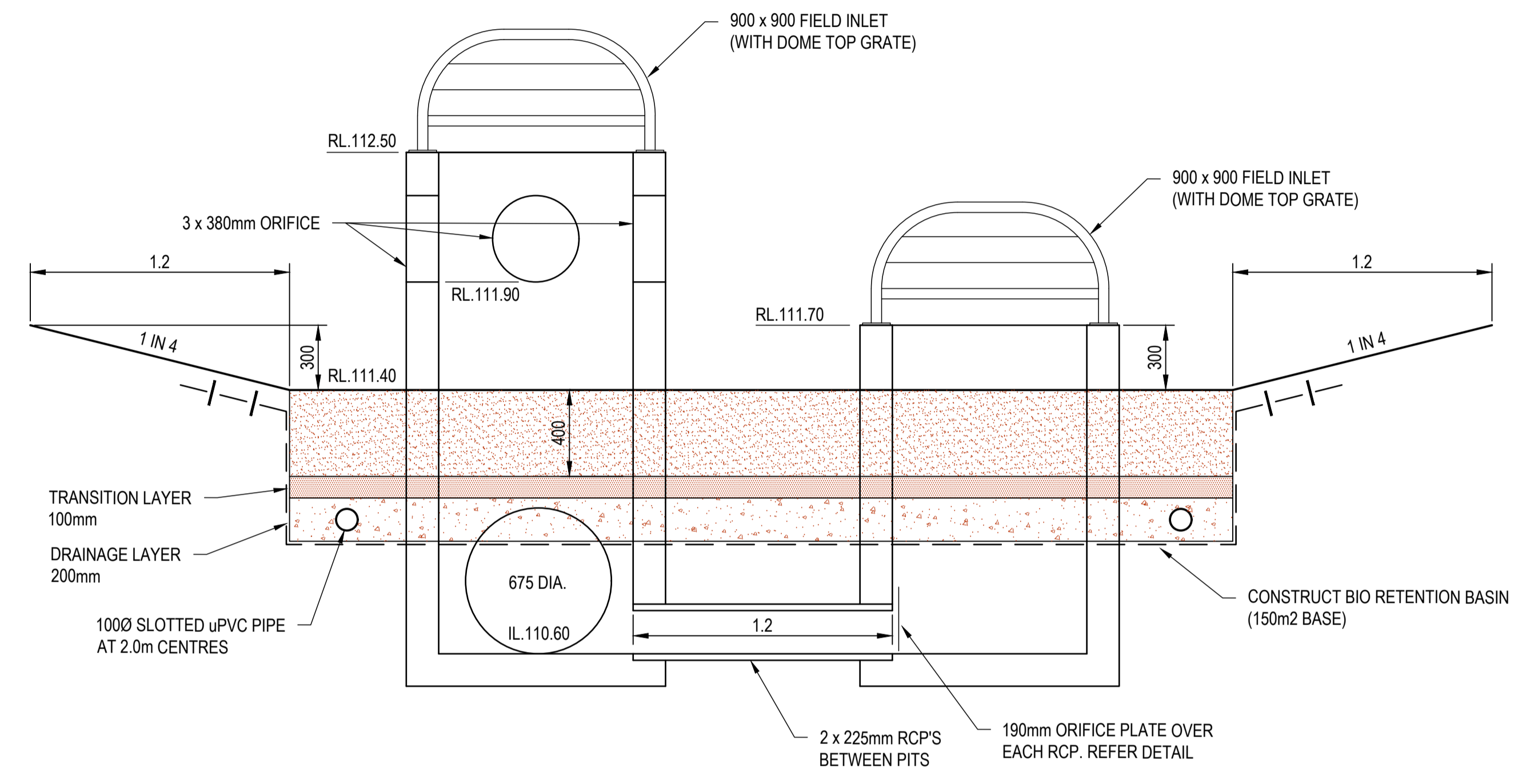
**SERVICES (PUP) LEGEND**

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(\*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

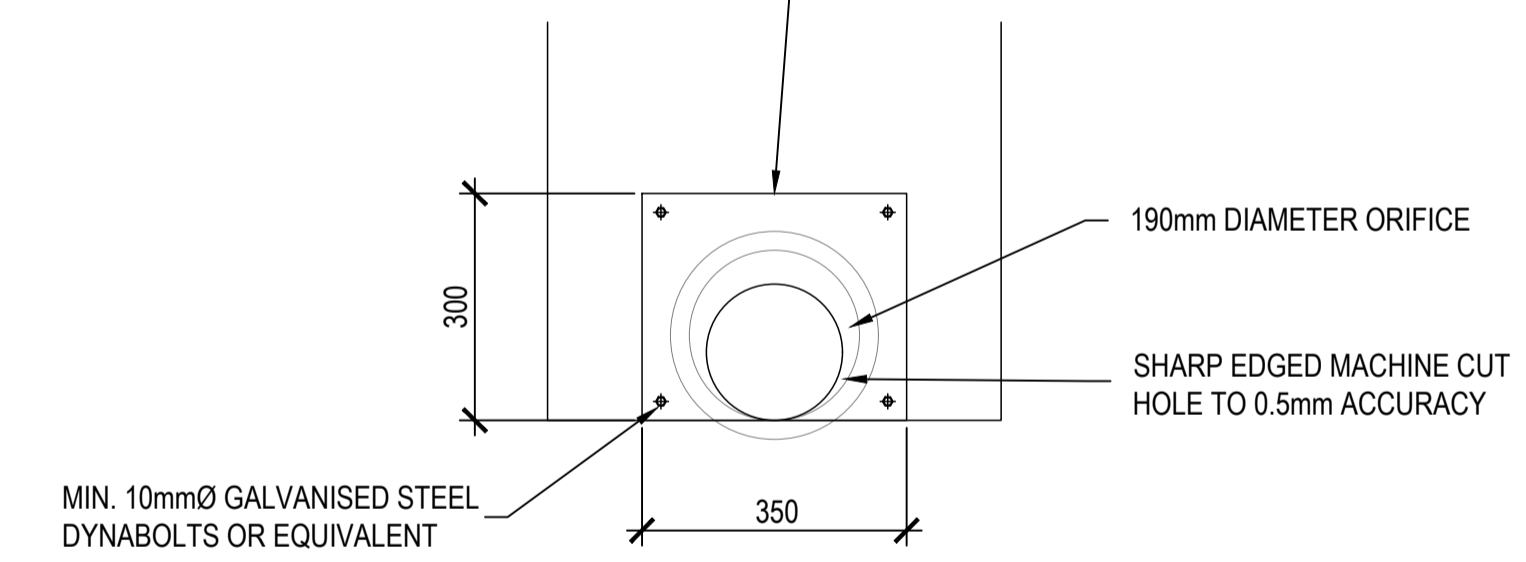
**LEGEND**

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- MOUNTABLE KERB TYPE M4	--- MOUNTABLE KERB TYPE M6
--- MOUNTABLE KERB TYPE M6	--- CONTOUR (0.1m)
--- ROAD EDGE BITUMEN	--- ROAD EDGE BITUMEN
--- ROAD SHOULDER	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	

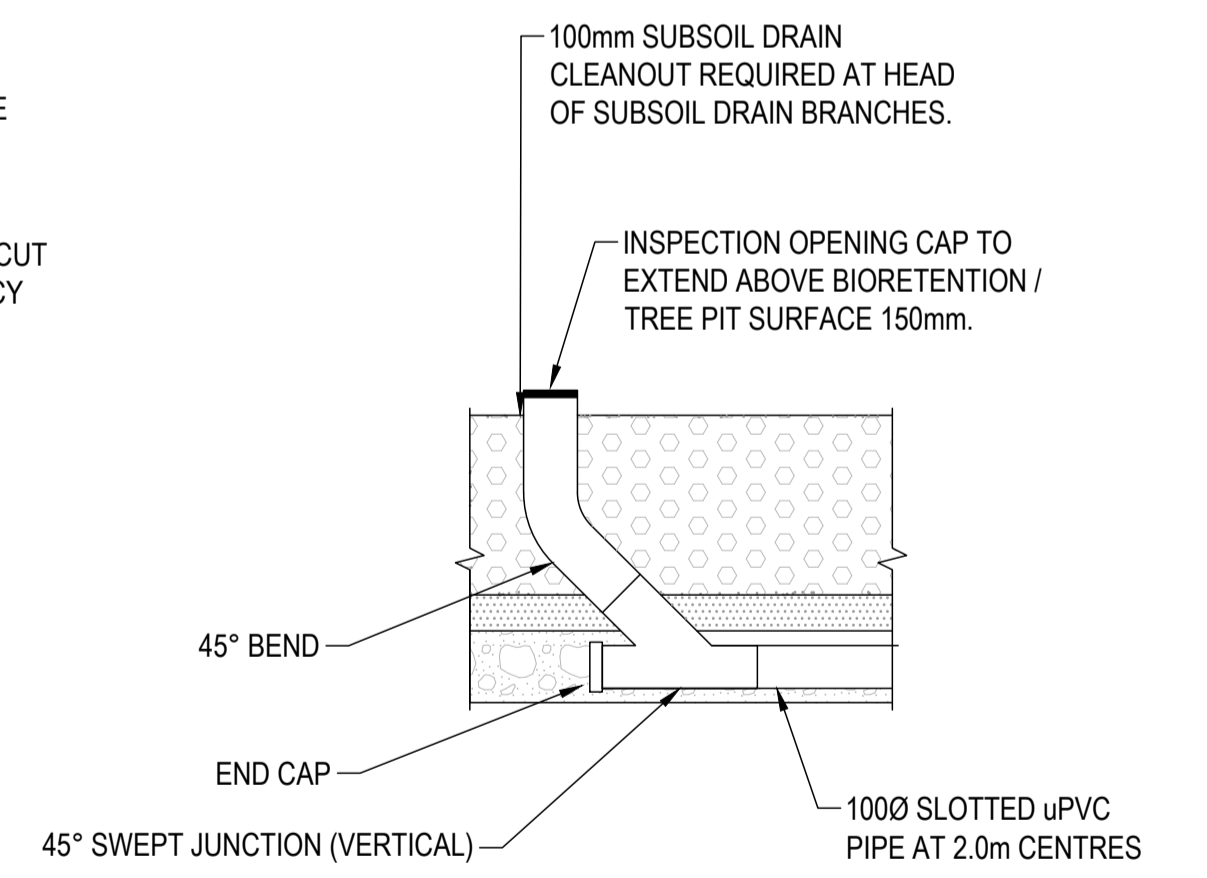


**TYPICAL BIORETENTION BASIN SECTION**  
SCALE 1:20

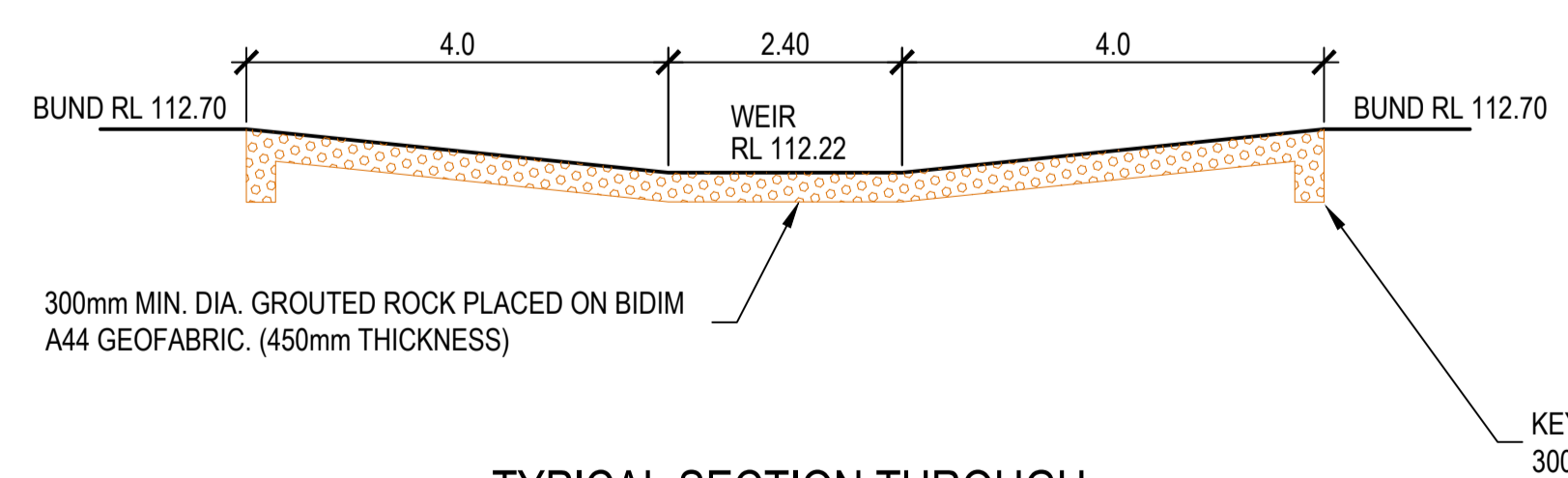
EXPOXY RESIN 10mm THICK ORIFICE PLATE TO WALL AND PROVIDE SILICON SEALANT AROUND THE EDGES OF THE PLATE



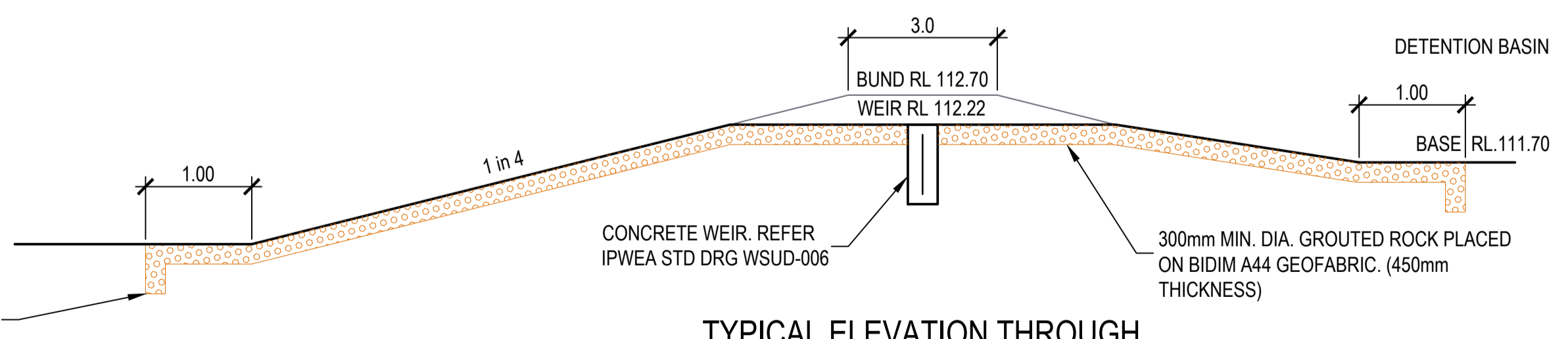
**ORIFICE PLATE DETAIL**  
OVER 225 DIA. OUTLET PIPES  
SCALE 1 : 10



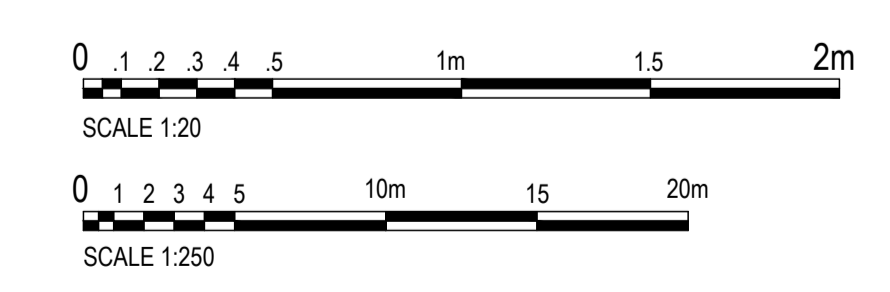
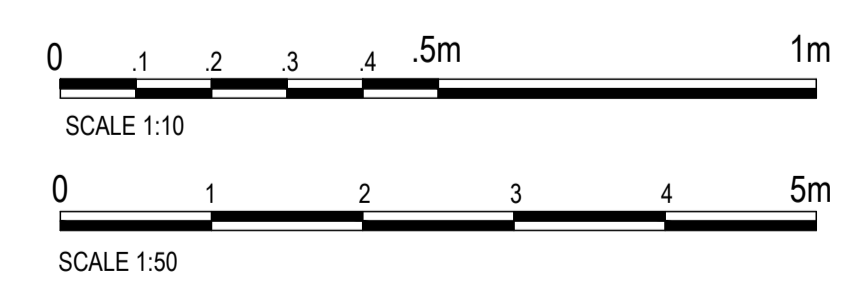
**TYPICAL CLEAROUT TO SURFACE DETAIL**  
NTS



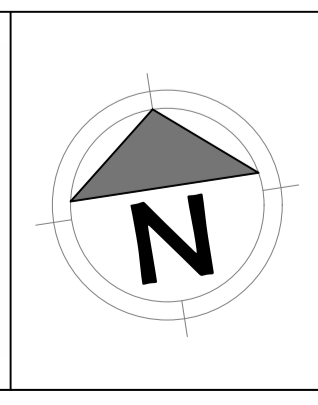
**TYPICAL SECTION THROUGH OVERFLOW WEIR**  
SCALE 1:50



**TYPICAL ELEVATION THROUGH OVERFLOW WEIR**  
SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL		MP	15/04/24



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**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

**DRAINAGE BIO RETENTION BASIN DETAILS**

**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4510	SHEET SIZE A1
		REVISION A

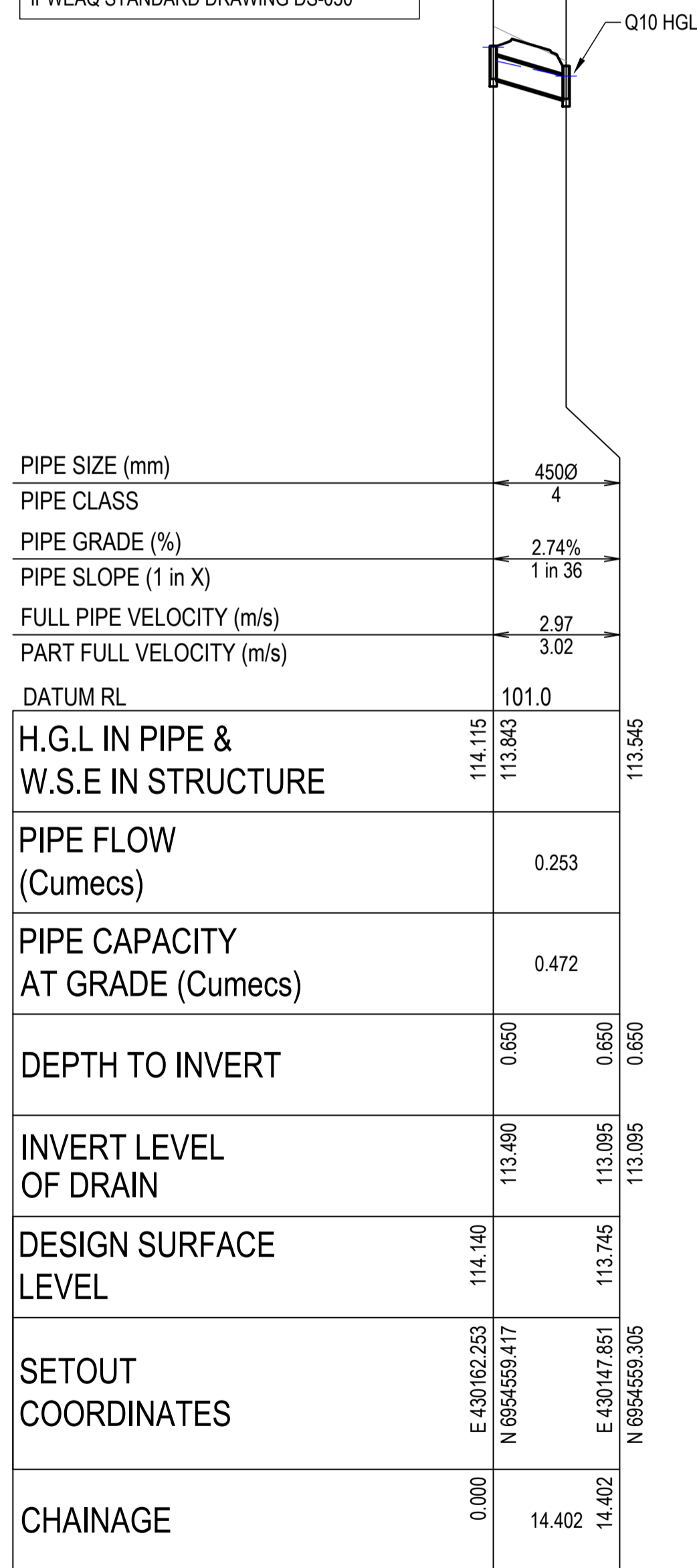
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STRUCTURE NAME	HW1/40	HW2/40
STRUCTURE DESCRIPTION	CONCRETE HEADWALL	CONCRETE HEADWALL

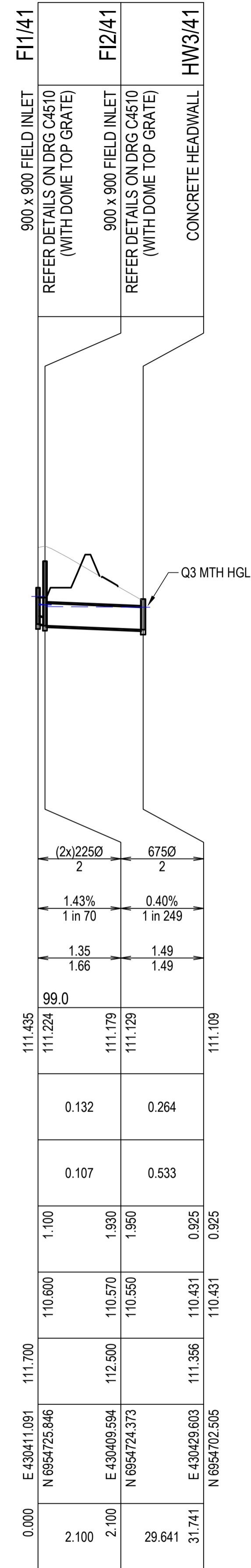
ALL PIPEWORK TO BE FIBRE REINFORCED CONCRETE TO THE SIZES NOMINATED.

ALL BEDDING AND BACKFILLING OF PIPE TRENCHES AS PER IPWEAQ STANDARD DRAWING DS-030

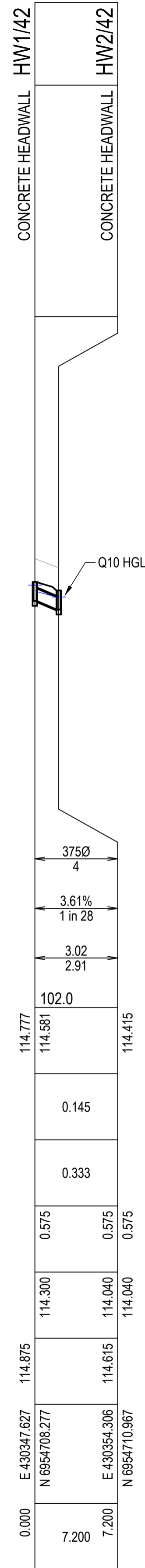
ALL DRAINAGE FIELD INLETS AS PER IPWEAQ STANDARD DRAWING DS-050



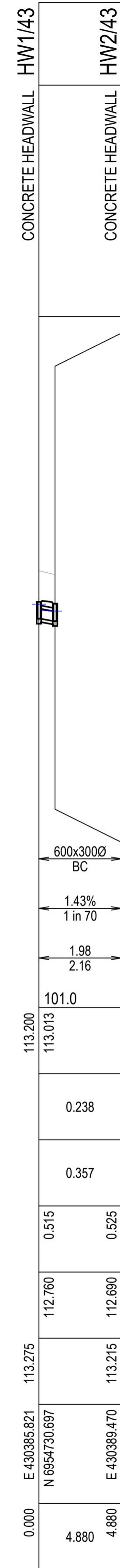
LINE 40



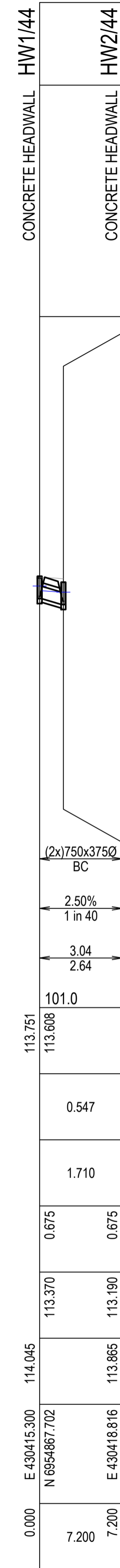
LINE 41



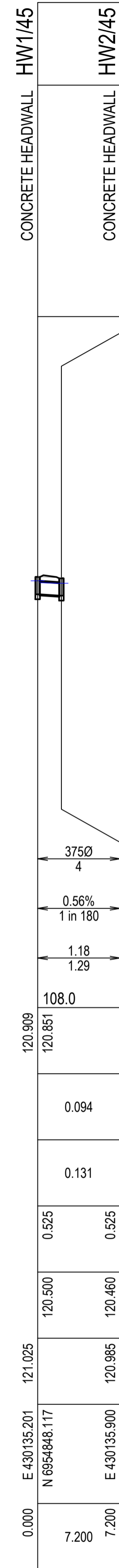
LINE 42



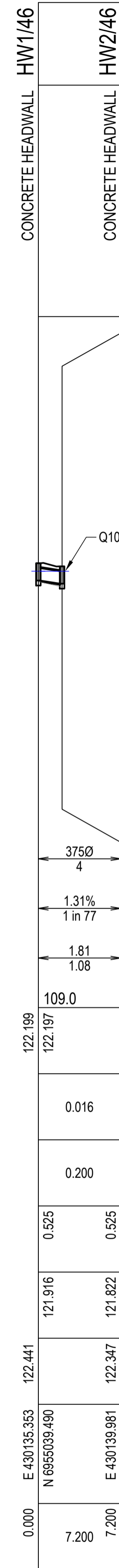
LINE 43



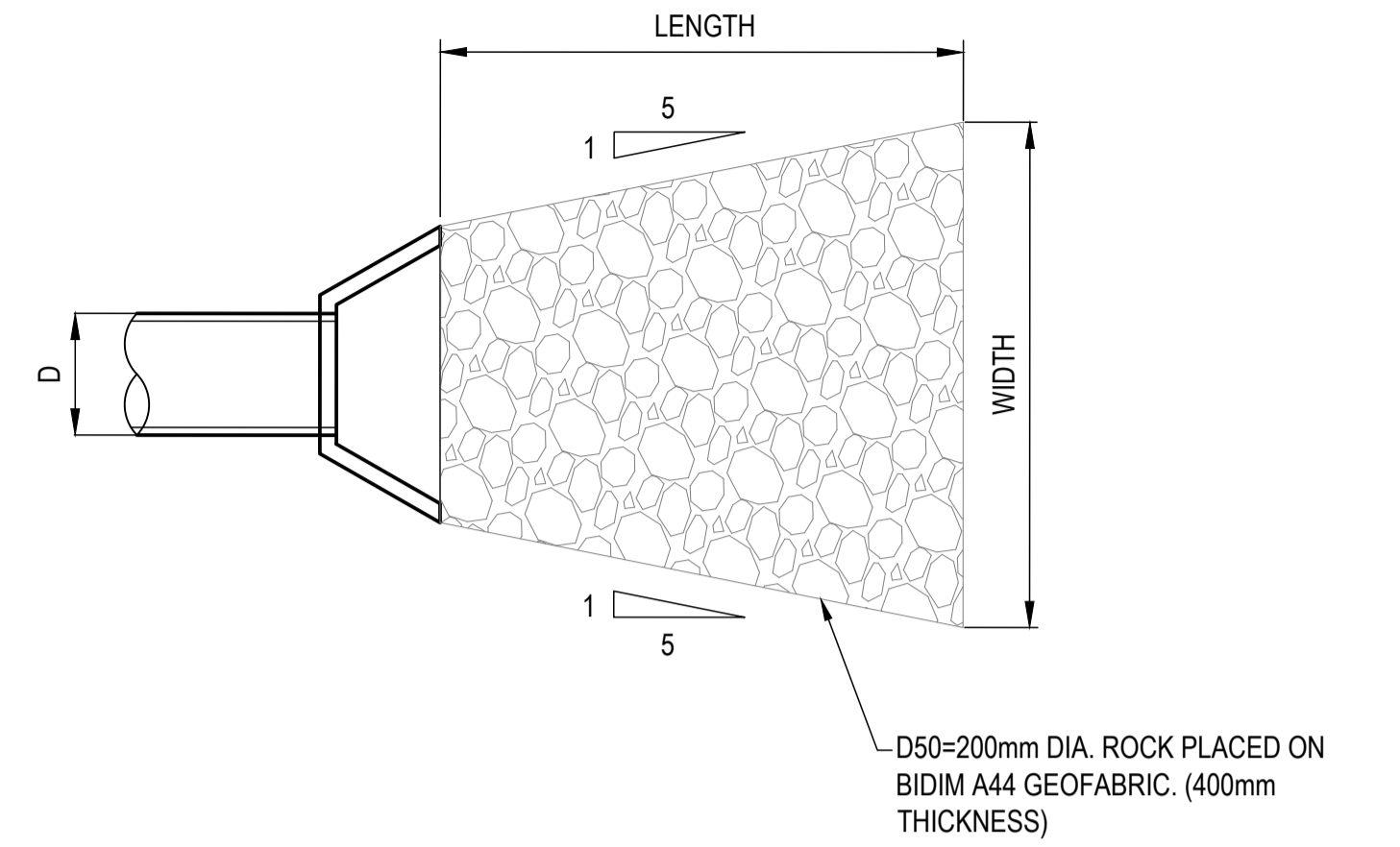
LINE 44



LINE 45



LINE 46



INLET / OUTLET PROTECTION DETAIL  
PROVIDE TO ALL OUTLETS  
N.T.S.

LINE 40

LINE 41

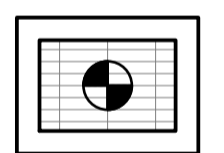
LINE 42

LINE 43

LINE 44

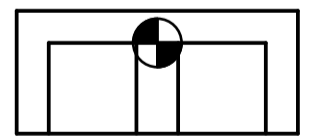
LINE 45

LINE 46



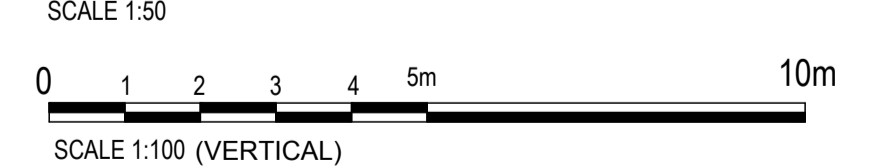
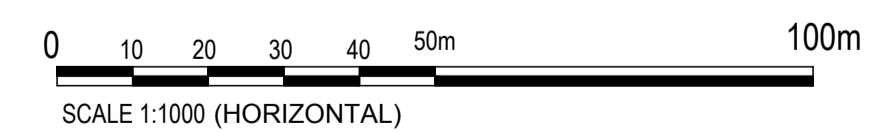
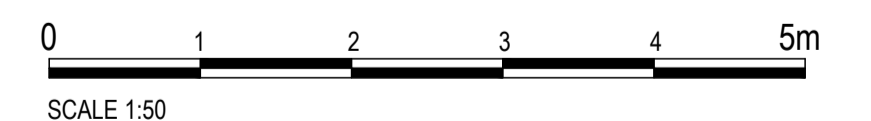
TYPICAL FIELD INLET SETOUT  
SCALE 1:50

⊙ DENOTES SETOUT POINT



TYPICAL HEADWALL SETOUT  
SCALE 1:50

⊙ DENOTES SETOUT POINT



NO.	REVISION DESCRIPTION	DRAWN	DATE
B	INFORMATION REQUEST RESPONSE	MP	09/05/24
A	ISSUED FOR APPROVAL	MP	15/04/24



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P.000007 - AK

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

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**DRAINAGE LONGITUDINAL SECTIONS**  
SHEET 1

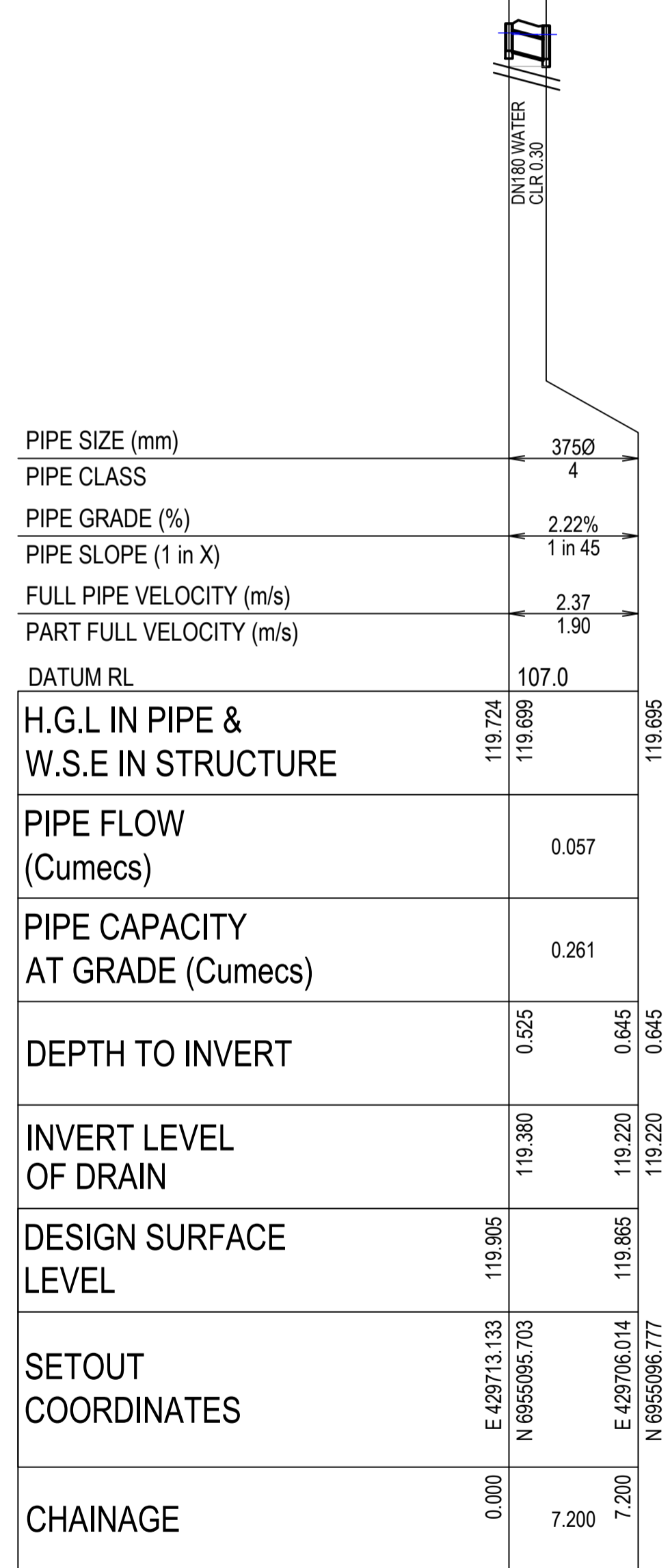
DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION  
PROJECT LEADER  
CK  
DESIGNER  
MP  
SIGNATURE  
DATE  
15/04/24  
SCALE  
AS SHOWN  
SHEET SIZE  
A1  
JOB No.  
BR242001  
DRAWING No.  
C4550  
REVISION  
B

STRUCTURE NAME	HW1/48
STRUCTURE DESCRIPTION	CONCRETE HEADWALL
	HW2/48
	CONCRETE HEADWALL

ALL PIPEWORK TO BE FIBRE REINFORCED CONCRETE TO THE SIZES NOMINATED.

ALL BEDDING AND BACKFILLING OF PIPE TRENCHES AS PER IPWEAQ STANDARD DRAWING DS-030

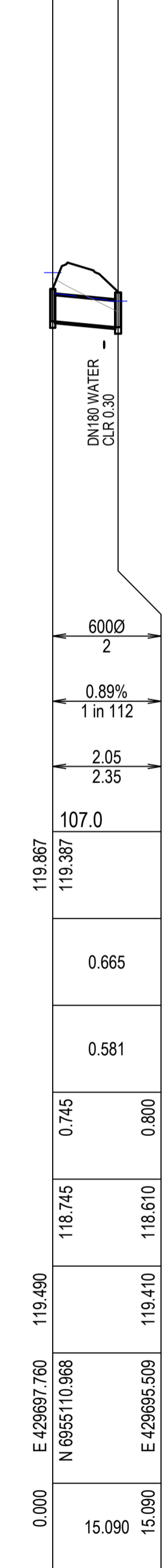
ALL DRAINAGE FIELD INLETS AS PER IPWEAQ STANDARD DRAWING DS-050



PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	2.22%
PIPE SLOPE (1 in X)	1 in 45
FULL PIPE VELOCITY (m/s)	2.37
PART FULL VELOCITY (m/s)	1.90
DATUM RL	107.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	119.724 119.695
PIPE FLOW (Cumecs)	0.057
PIPE CAPACITY AT GRADE (Cumecs)	0.261
DEPTH TO INVERT	0.525 0.645 0.645
INVERT LEVEL OF DRAIN	119.380 119.220 119.220
DESIGN SURFACE LEVEL	119.905 119.865
SETOUT COORDINATES	E 429713.133 N 6955095.703 E 429706.014 N 6955096.777
CHAINAGE	0.000 7.200 7.200

LINE 48

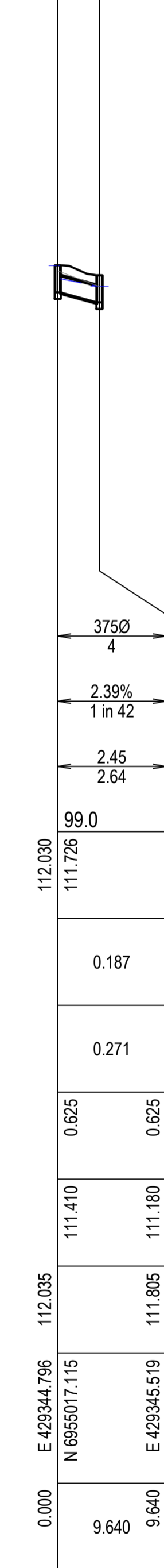
STRUCTURE NAME	F11/49
STRUCTURE DESCRIPTION	900 x 900 FIELD INLET (WITH DOME TOP GRATE)
	HW2/49
	CONCRETE HEADWALL



PIPE SIZE (mm)	6000
PIPE CLASS	2
PIPE GRADE (%)	0.89%
PIPE SLOPE (1 in X)	1 in 112
FULL PIPE VELOCITY (m/s)	2.05
PART FULL VELOCITY (m/s)	2.35
DATUM RL	107.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	119.867 119.387
PIPE FLOW (Cumecs)	0.665
PIPE CAPACITY AT GRADE (Cumecs)	0.581
DEPTH TO INVERT	0.745 0.800 0.800
INVERT LEVEL OF DRAIN	118.745 118.610 118.610
DESIGN SURFACE LEVEL	119.490 119.410
SETOUT COORDINATES	E 429697.760 N 6955110.968 E 429695.509 N 6955096.046
CHAINAGE	0.000 15.090 15.090

LINE 49

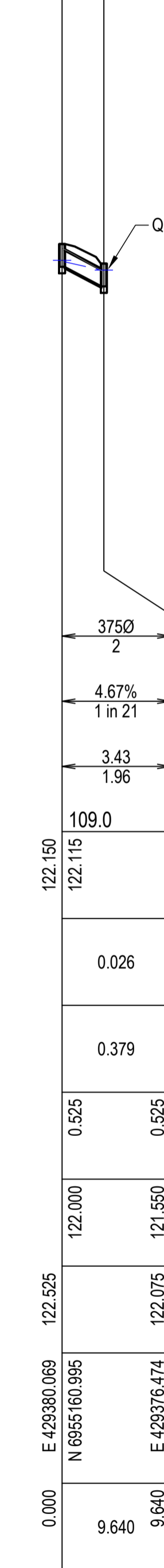
STRUCTURE NAME	HW1/50
STRUCTURE DESCRIPTION	CONCRETE HEADWALL
	HW2/50
	CONCRETE HEADWALL



PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	2.39%
PIPE SLOPE (1 in X)	1 in 42
FULL PIPE VELOCITY (m/s)	2.45
PART FULL VELOCITY (m/s)	2.64
DATUM RL	99.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	112.030 111.726
PIPE FLOW (Cumecs)	0.187
PIPE CAPACITY AT GRADE (Cumecs)	0.271
DEPTH TO INVERT	0.625 0.625 0.625
INVERT LEVEL OF DRAIN	111.410 111.180 111.180
DESIGN SURFACE LEVEL	112.035 111.805
SETOUT COORDINATES	E 429344.796 N 6955017.115 E 429345.519 N 6955007.502
CHAINAGE	0.000 9.640 9.640

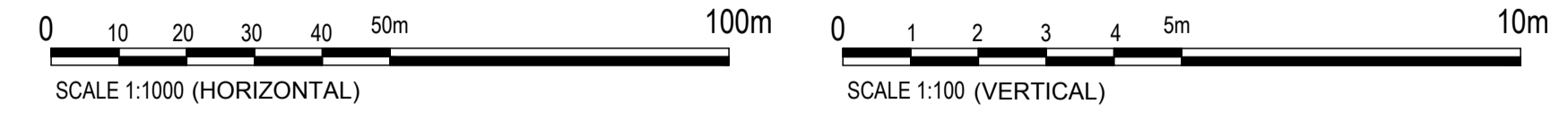
LINE 50

STRUCTURE NAME	HW1/51
STRUCTURE DESCRIPTION	CONCRETE HEADWALL
	HW2/51
	CONCRETE HEADWALL



PIPE SIZE (mm)	3750
PIPE CLASS	2
PIPE GRADE (%)	4.67%
PIPE SLOPE (1 in X)	1 in 21
FULL PIPE VELOCITY (m/s)	3.43
PART FULL VELOCITY (m/s)	1.96
DATUM RL	109.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	122.150 122.115
PIPE FLOW (Cumecs)	0.026
PIPE CAPACITY AT GRADE (Cumecs)	0.379
DEPTH TO INVERT	0.525 0.525 0.525
INVERT LEVEL OF DRAIN	122.000 121.550 121.550
DESIGN SURFACE LEVEL	122.525 122.075
SETOUT COORDINATES	E 429380.069 N 6955160.995 E 429376.474 N 6955152.050
CHAINAGE	0.000 9.640 9.640

LINE 51



REVISIONS:			
A	ISSUED FOR APPROVAL	MP	15/04/24
No.	REVISION DESCRIPTION	DRAWN	DATE



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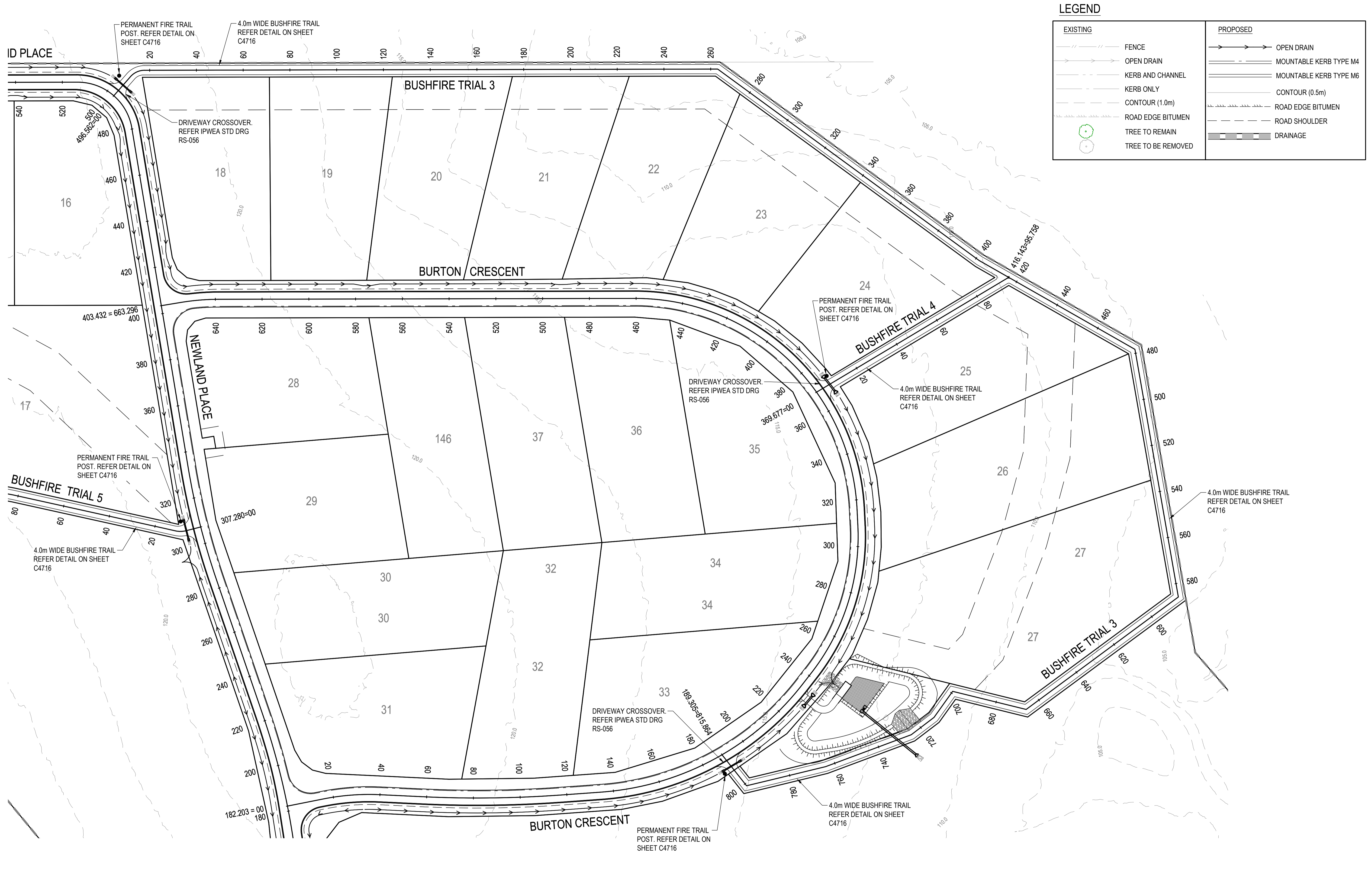
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 SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**DRAINAGE LONGITUDINAL SECTIONS**  
 SHEET 2

DRAWING STATUS <b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4551	REVISION A	

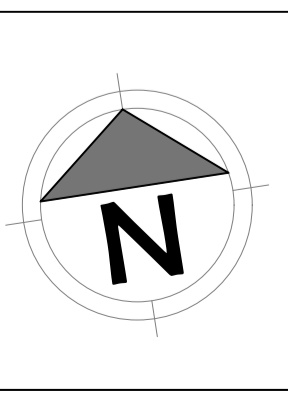




EXISTING		PROPOSED	
	FENCE		OPEN DRAIN
	OPEN DRAIN		MOUNTABLE KERB TYPE M4
	KERB AND CHANNEL		MOUNTABLE KERB TYPE M6
	KERB ONLY		CONTOUR (0.5m)
	CONTOUR (1.0m)		ROAD EDGE BITUMEN
	ROAD EDGE BITUMEN		ROAD SHOULDER
	TREE TO REMAIN		DRAINAGE
	TREE TO BE REMOVED		

REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL

**PARKLAKE**  
ADARE



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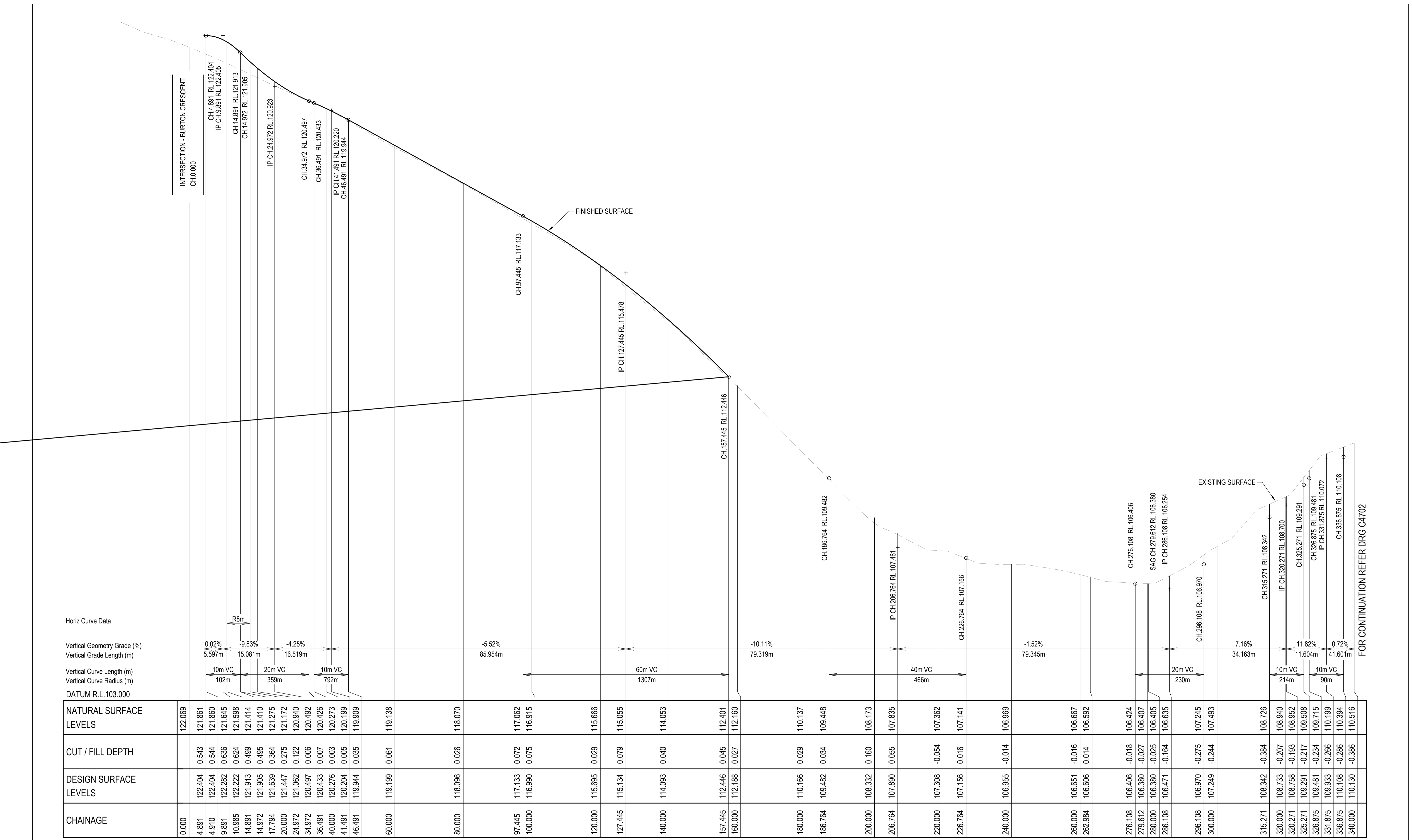
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SCALE  
0 7.5 15 22.5 30 37.5m 75m  
SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**BUSHFIRE TRIAL 3 AND 4 PLAN**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4700	A	

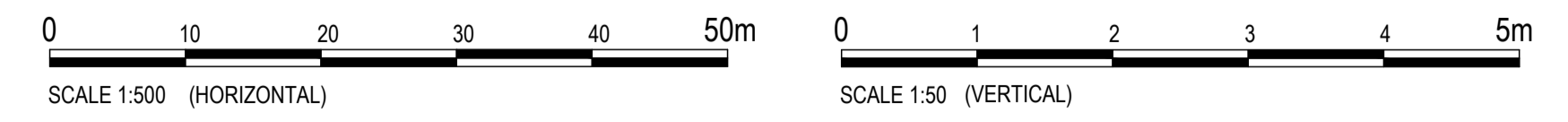




Horiz Curve Data  
 Vertical Geometry Grade (%)  
 Vertical Grade Length (m)  
 Vertical Curve Length (m)  
 Vertical Curve Radius (m)  
 DATUM R.L. 103.000

CHAINAGE	NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS
0.000	122.069		
4.891	121.861	0.543	122.404
4.910	122.404	0.544	122.404
9.891	122.282	0.636	122.282
10.985	122.222	0.624	122.222
14.891	121.913	0.499	121.913
14.972	121.905	0.495	121.905
17.794	121.639	0.364	121.639
20.000	121.447	0.275	121.447
24.972	121.062	0.122	120.940
34.972	120.497	0.006	120.492
36.491	120.433	0.007	120.426
40.000	120.276	0.003	120.273
41.491	120.204	0.005	120.199
46.491	119.944	0.035	119.909
60.000	119.199	0.061	119.138
80.000	118.096	0.026	118.070
97.445	117.133	0.072	117.062
100.000	116.990	0.075	116.915
120.000	115.695	0.029	115.666
127.445	115.134	0.079	115.055
140.000	114.093	0.040	114.053
157.445	112.446	0.045	112.401
160.000	112.188	0.027	112.160
180.000	110.166	0.029	110.137
186.764	109.482	0.034	109.448
200.000	108.332	0.160	108.173
206.764	107.890	0.055	107.835
220.000	107.308	-0.054	107.362
226.764	107.156	0.016	107.141
240.000	106.955	-0.014	106.969
260.000	106.651	-0.016	106.667
262.984	106.606	0.014	106.592
276.108	106.406	-0.018	106.424
279.612	106.380	-0.027	106.407
280.000	106.380	-0.025	106.405
286.108	106.471	-0.164	106.635
296.108	106.970	-0.275	107.245
300.000	107.249	-0.244	107.493
315.271	108.342	-0.384	108.726
320.000	108.733	-0.207	108.940
320.271	108.758	-0.193	108.952
325.271	109.291	-0.217	109.508
326.875	109.481	-0.234	109.715
331.875	109.933	-0.266	110.199
336.875	110.108	-0.286	110.394
340.000	110.130	-0.386	110.516

**LONGITUDINAL SECTION - BUSHFIRE TRIAL 3**  
 HORIZONTAL SCALE 1:500  
 VERTICAL SCALE 1:50



REVISIONS:	REVISION DESCRIPTION	DATE
A	ISSUED FOR APPROVAL	15/04/24



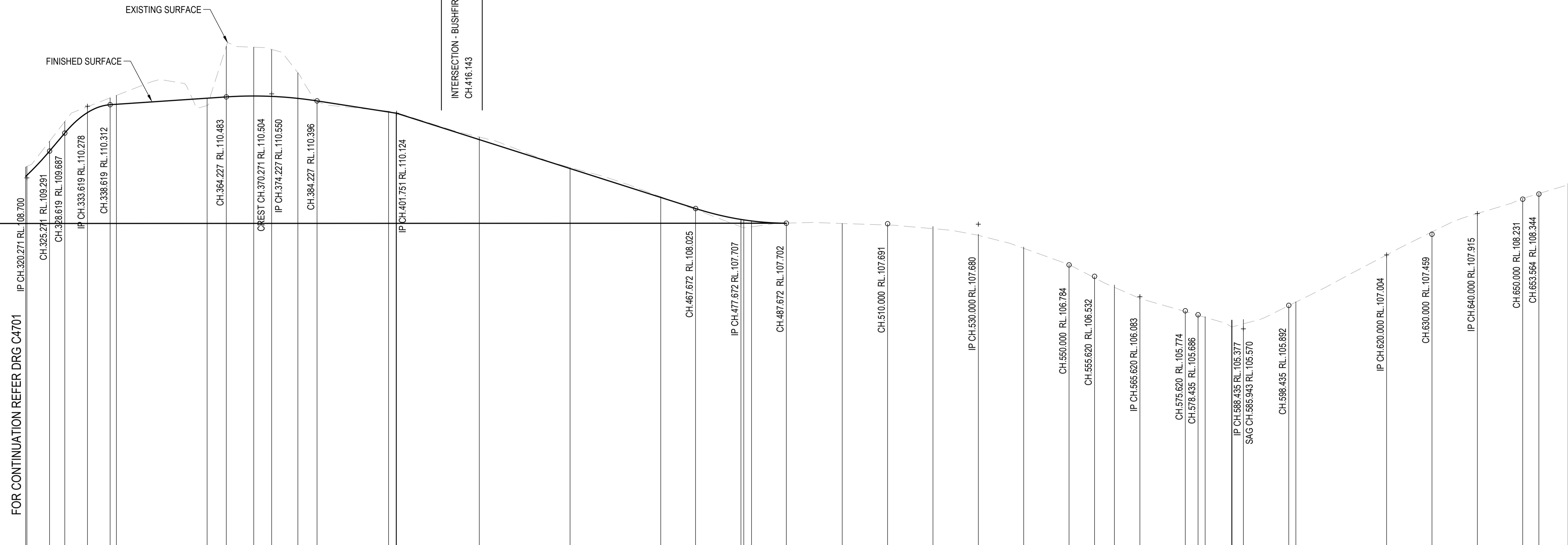
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**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5

**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4701	SHEET SIZE A1
		REVISION A

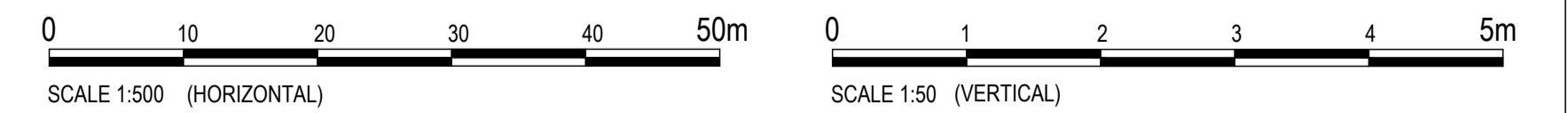


Vertical Geometry Grade (%)	Vertical Grade Length (m)	Vertical Curve Length (m)	Vertical Curve Radius (m)
11.82%	13.349m	10m VC	214m
0.67%	40.608m	10m VC	90m
-1.55%	27.524m	20m VC	901m
-3.18%	75.921m	20m VC	638m
-0.05%	52.328m	40m VC	902m
-4.48%	35.620m	20m VC	1444m
-3.1%	22.815m	20m VC	242m
5.16%	31.565m	20m VC	1439m
4.55%	20.000m	20m VC	707m
3.16%	23.564m	20m VC	707m

CHAINAGE	NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS
320.000	108.940	-0.207	108.733
320.271	108.952	-0.193	108.758
325.271	109.508	-0.217	109.291
328.619	109.940	-0.253	109.687
333.619	110.267	-0.129	110.139
338.619	110.462	-0.150	110.312
340.000	110.516	-0.195	110.321
360.000	110.296	0.159	110.455
364.227	111.602	-1.118	110.483
370.271	111.578	-1.075	110.504
374.227	111.528	-1.033	110.495
380.000	111.016	-0.565	110.451
384.227	110.383	0.012	110.396
400.000	110.169	-0.018	110.151
401.652	110.140	-0.014	110.126
401.751	110.138	-0.013	110.124
420.000	109.800	-0.057	109.543
440.000	108.930	-0.024	108.906
460.000	108.285	-0.015	108.270
467.672	107.998	0.027	108.025
477.672	107.624	0.162	107.765
478.299	107.600	0.176	107.776
480.000	107.622	0.130	107.752
487.672	107.704	-0.002	107.702
500.000	107.696	-0.000	107.696
510.000	107.662	0.028	107.691
520.000	107.582	0.049	107.630
530.000	107.434	0.025	107.459
540.000	107.150	0.027	107.177
550.000	106.790	-0.007	106.784
555.620	106.499	0.033	106.532
560.000	106.289	0.053	106.342
565.620	106.046	0.072	106.118
575.620	105.757	0.017	105.774
578.435	105.675	0.011	105.686
580.000	105.630	0.013	105.643
585.818	105.416	0.154	105.570
585.943	105.420	0.150	105.570
588.435	105.486	0.097	105.583
598.435	105.887	0.005	105.892
600.000	105.965	0.008	105.973
620.000	107.004	0.000	107.004
630.000	107.509	-0.050	107.459
640.000	107.915	-0.035	107.880
650.000	108.248	-0.017	108.231
653.564	108.355	-0.011	108.344
660.000	108.548	0.029	108.577

LONGITUDINAL SECTION - BUSHFIRE TRIAL 3

HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL		MP	15/04/24



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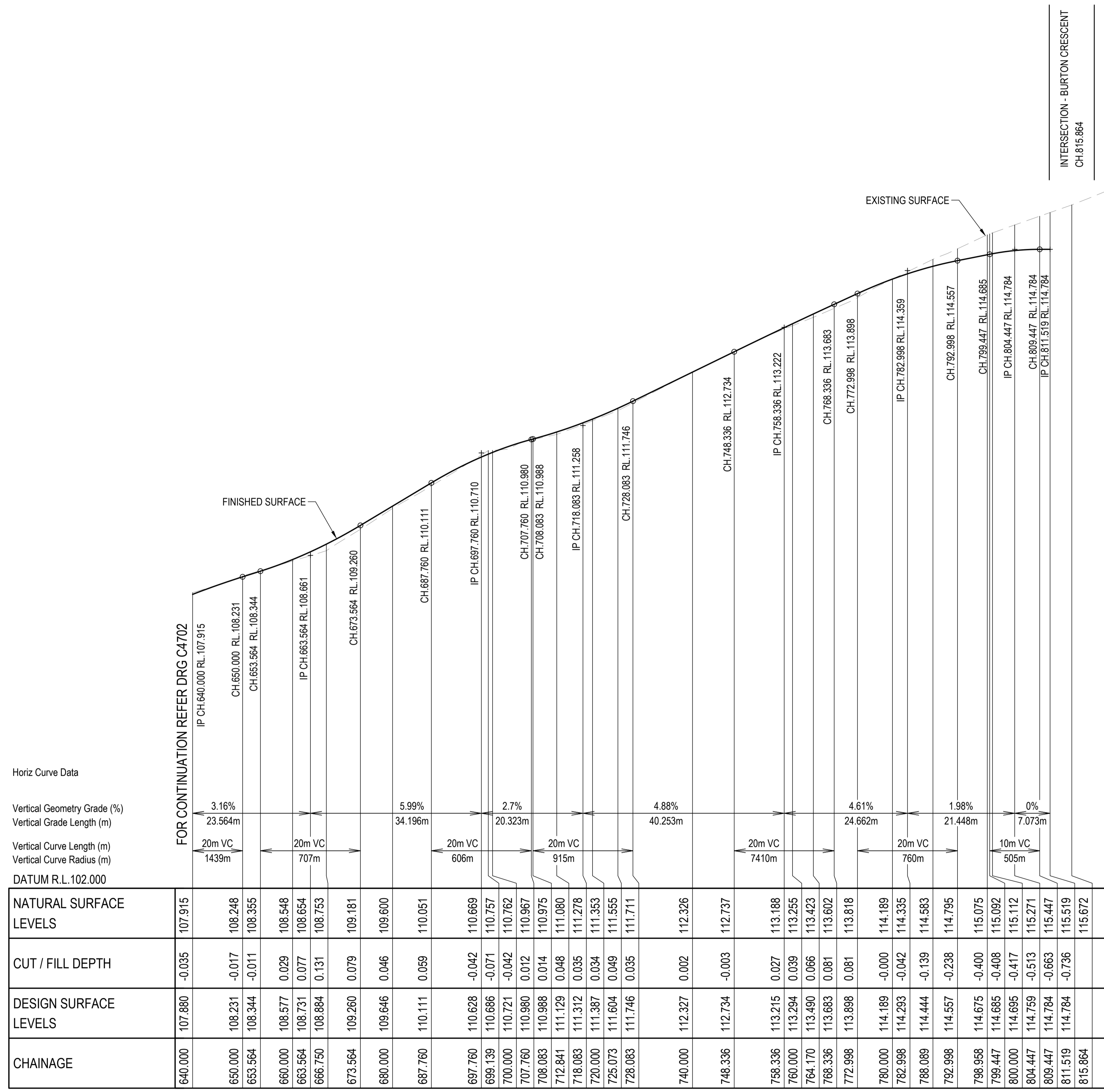
SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRIAL 3 LONGITUDINAL SECTION - SHEET 2**

DRAWING STATUS  
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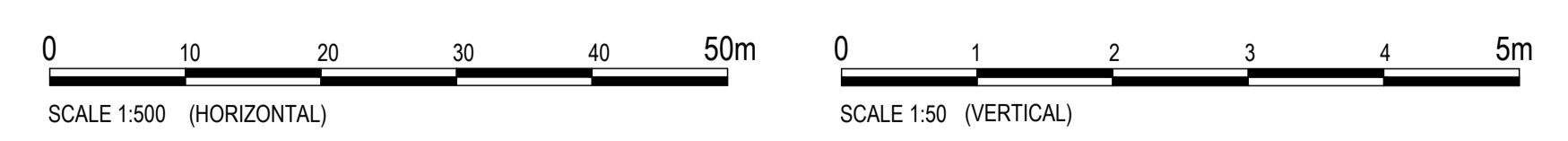
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4702	A	



Horiz Curve Data  
 Vertical Geometry Grade (%)  
 Vertical Grade Length (m)  
 Vertical Curve Length (m)  
 Vertical Curve Radius (m)  
 DATUM R.L.102.000

CHAINAGE	DESIGN SURFACE LEVELS	CUT / FILL DEPTH	NATURAL SURFACE LEVELS
640.000	107.880	-0.035	107.915
650.000	108.231	-0.017	108.248
653.564	108.344	-0.011	108.355
660.000	108.577	0.029	108.548
663.564	108.731	0.077	108.654
666.750	108.884	0.131	108.753
673.564	109.260	0.079	109.181
680.000	109.646	0.046	109.600
687.760	110.111	0.059	110.051
697.760	110.628	-0.042	110.669
699.139	110.666	-0.071	110.757
700.000	110.721	-0.042	110.762
707.760	110.990	0.012	110.967
708.083	110.998	0.014	110.975
712.841	111.129	0.048	111.080
718.083	111.312	0.035	111.278
720.000	111.387	0.034	111.353
725.073	111.604	0.049	111.555
728.083	111.746	0.035	111.711
740.000	112.327	0.002	112.326
748.336	112.734	-0.003	112.737
758.336	113.215	0.027	113.188
760.000	113.294	0.039	113.255
764.170	113.490	0.066	113.423
768.336	113.663	0.081	113.602
772.998	113.898	0.081	113.818
780.000	114.189	-0.000	114.189
782.998	114.293	-0.042	114.335
788.089	114.444	-0.139	114.583
792.998	114.557	-0.238	114.795
798.958	114.675	-0.400	115.075
799.447	114.665	-0.408	115.092
800.000	114.695	-0.417	115.112
804.447	114.759	-0.513	115.271
809.447	114.784	-0.663	115.447
811.519	114.784	-0.736	115.519
815.864			115.672

LONGITUDINAL SECTION - BUSHFIRE TRIAL 3  
 HORIZONTAL SCALE 1:500  
 VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL		MP	15/04/24



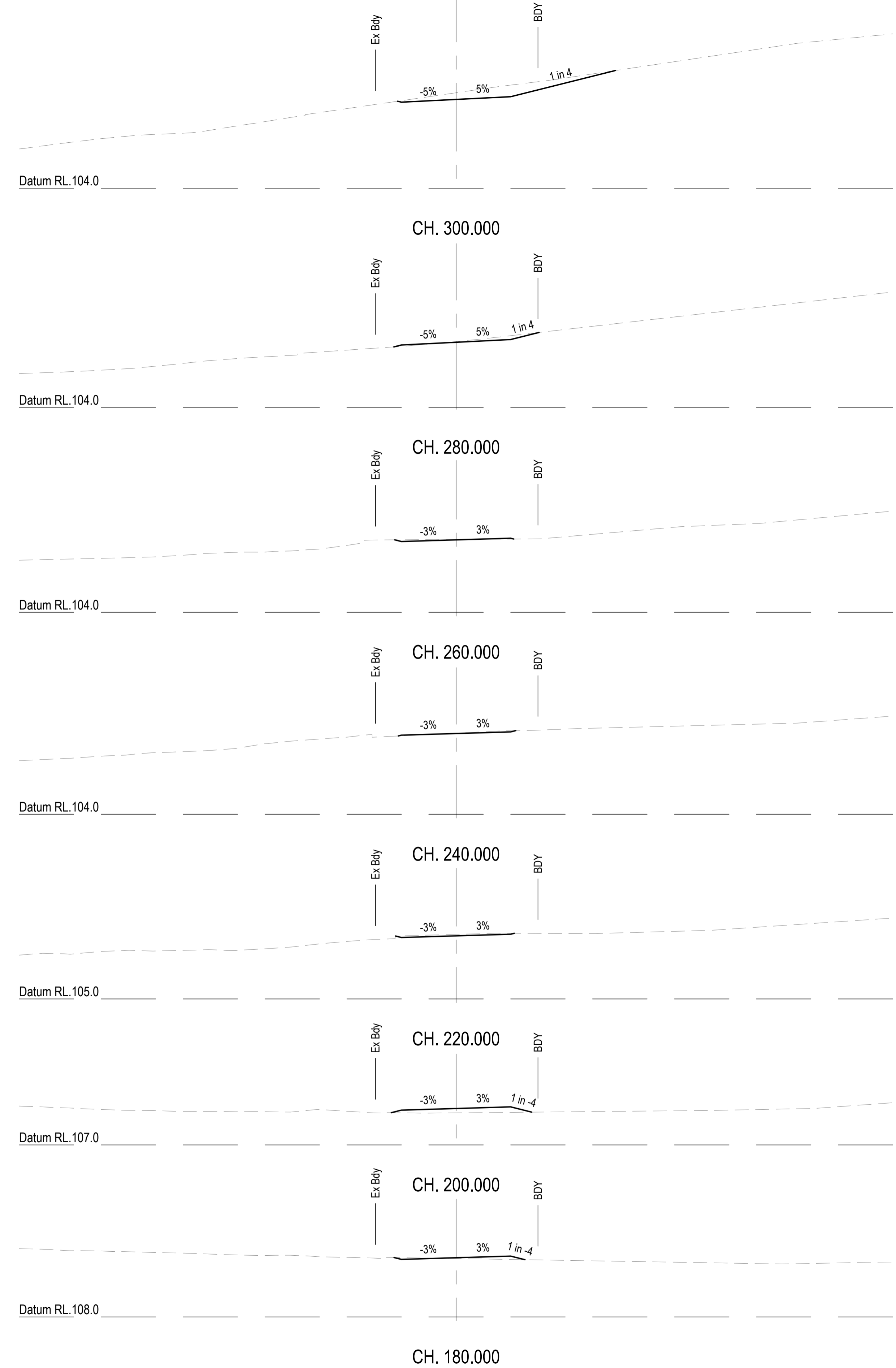
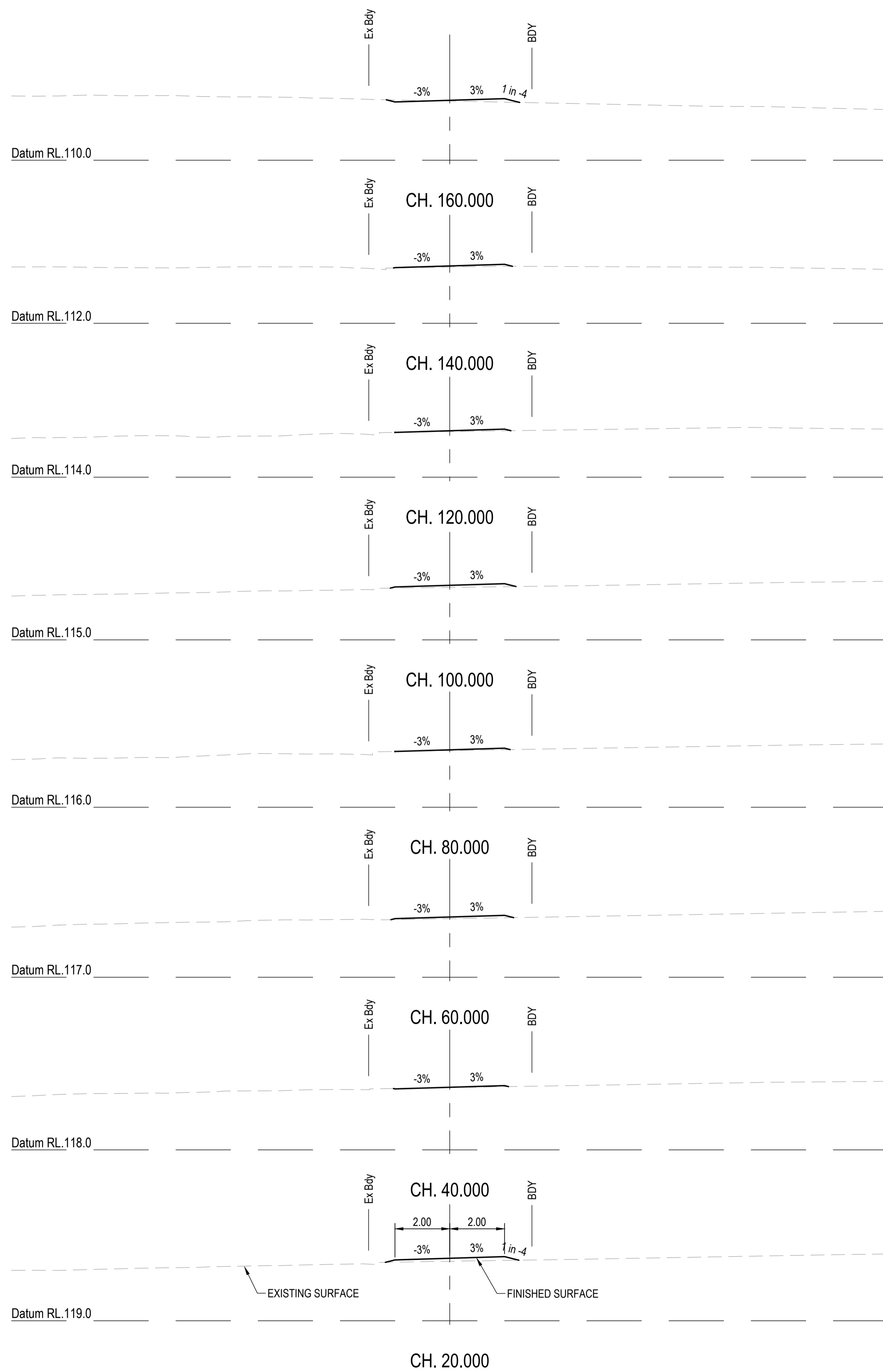
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CLIENT  
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 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**BUSHFIRE TRIAL 3 LONGITUDINAL SECTION - SHEET 3**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  
 PROJECT LEADER: CK  
 DESIGNER: MP  
 SIGNATURE: [Signature]  
 DRAFTSPERSON: MP  
 SCALE: AS SHOWN  
 DATE: 15/04/24  
 SHEET SIZE: A1  
 JOB No: BR242001  
 DRAWING No: C4703  
 REVISION: A

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No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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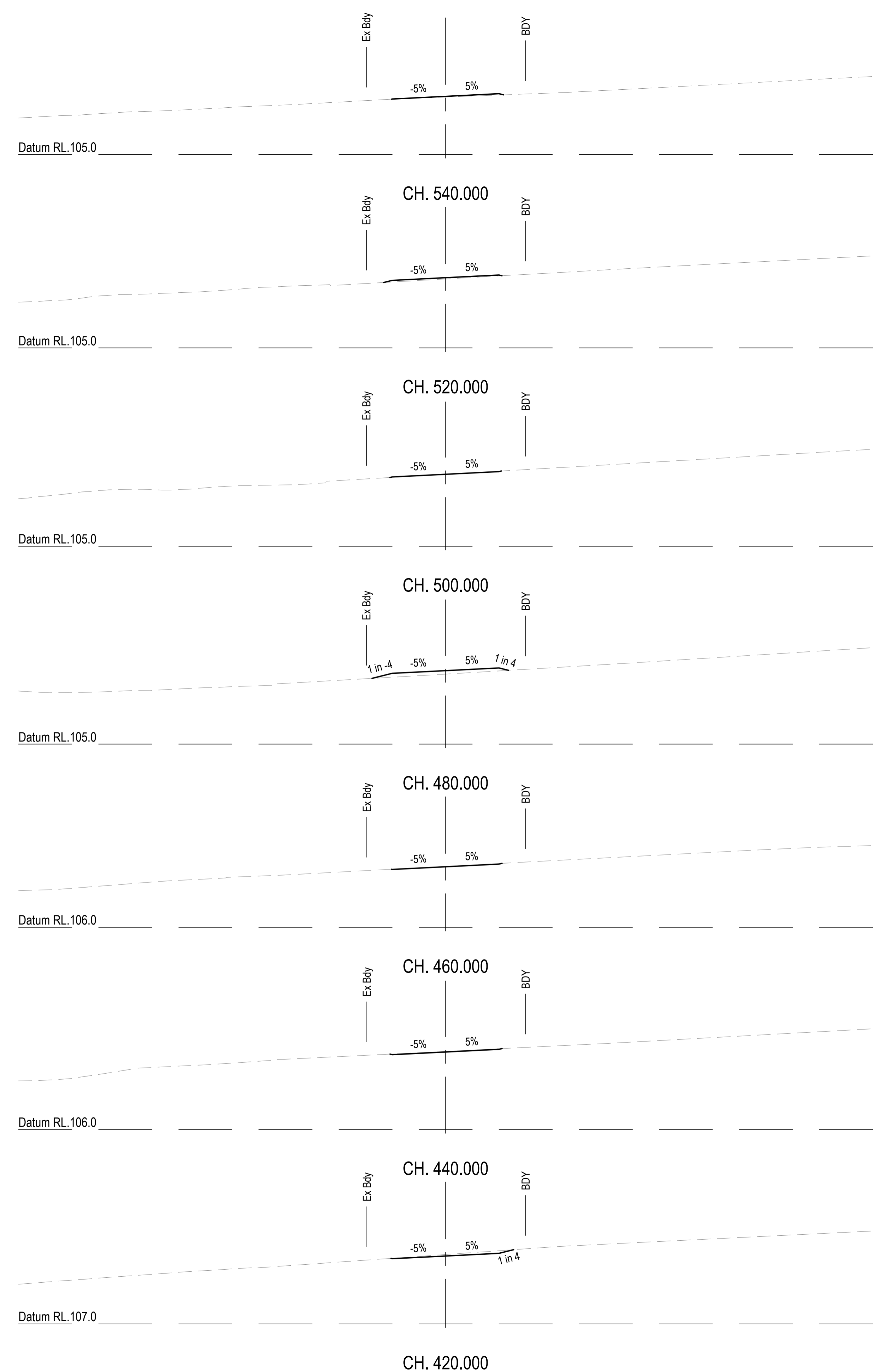
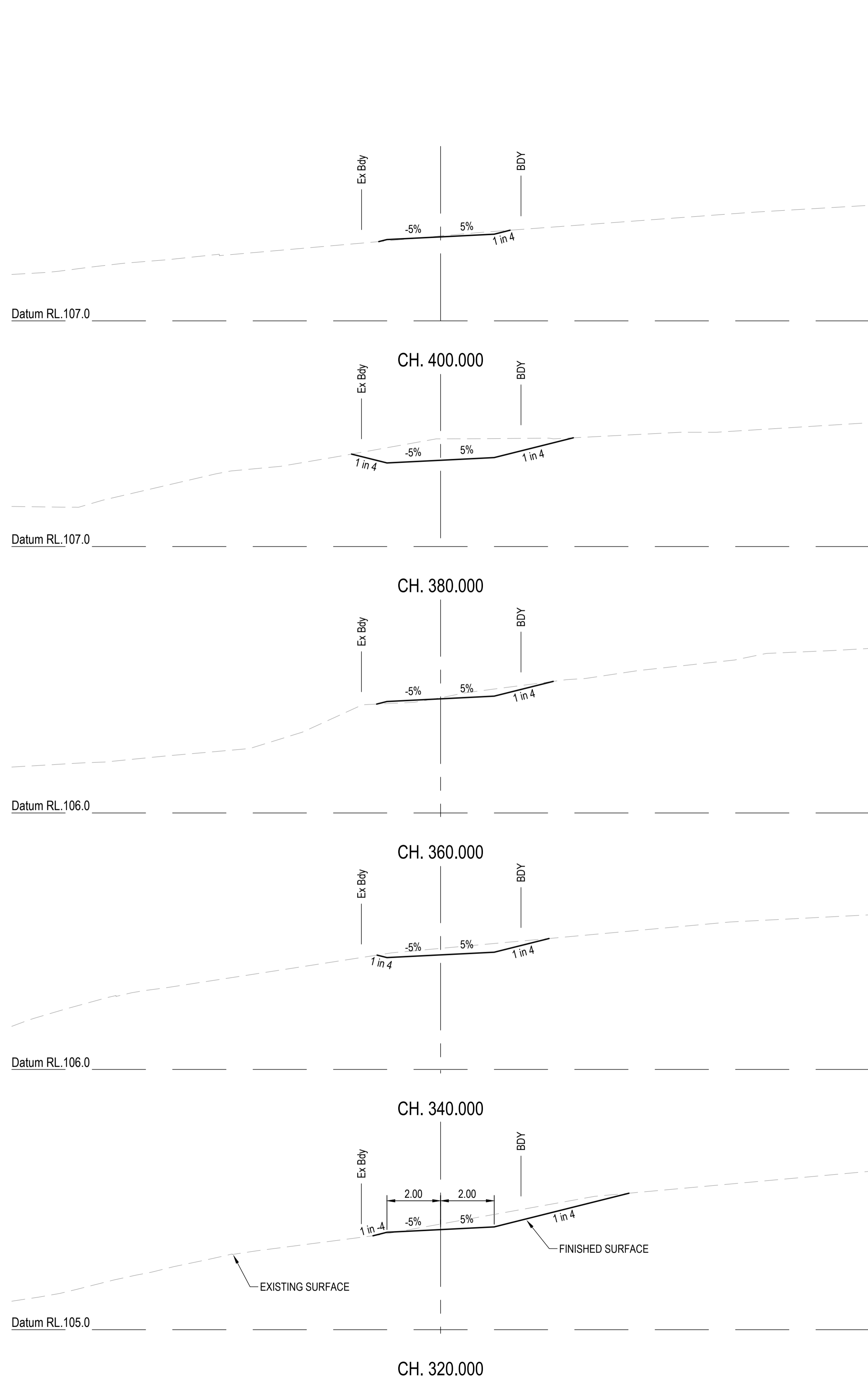
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SCALE  
0 1 2 3 4 5m 10m  
SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRAIL 3**  
**CROSS SECTIONS - SHEET 1**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4704	A	



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No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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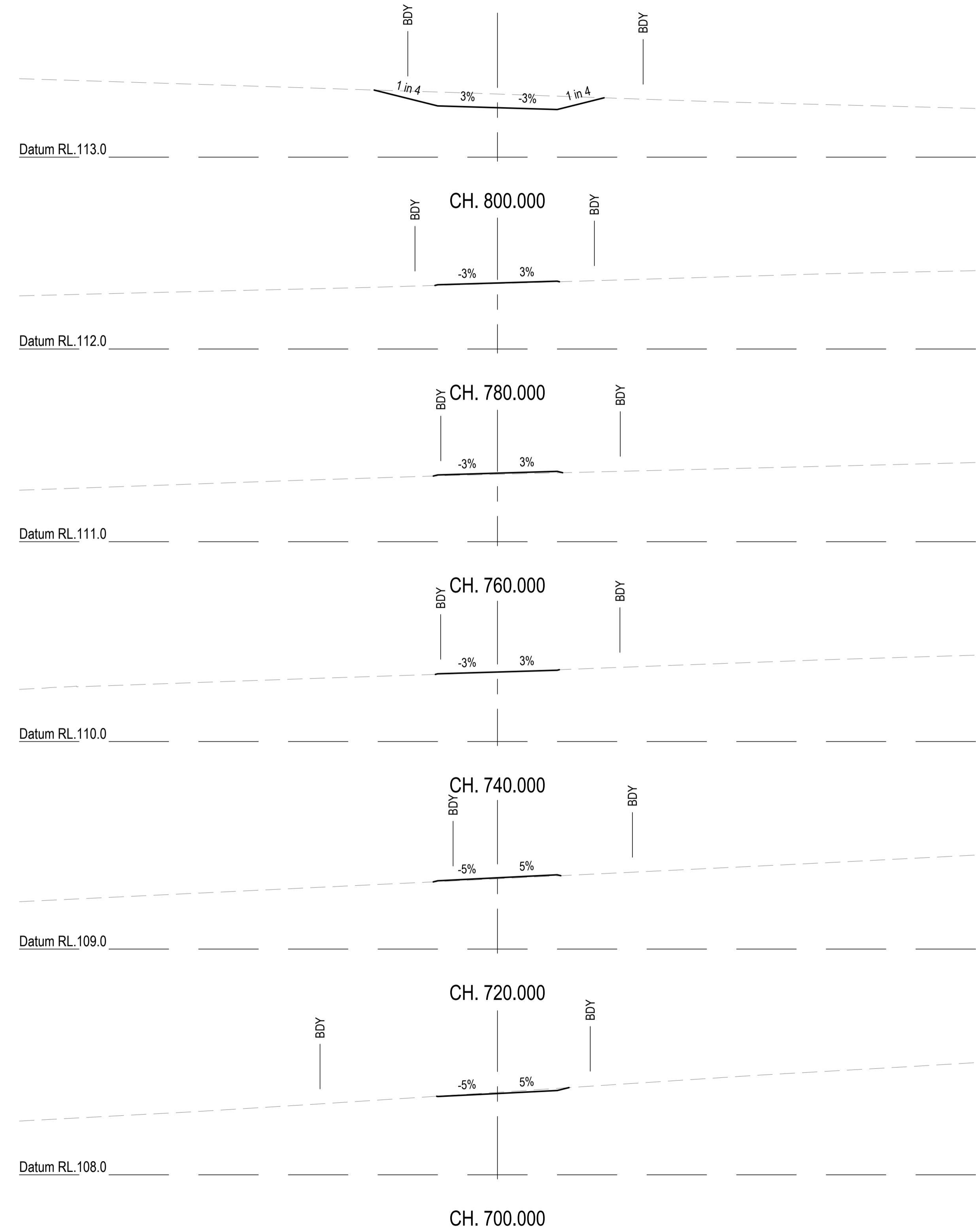
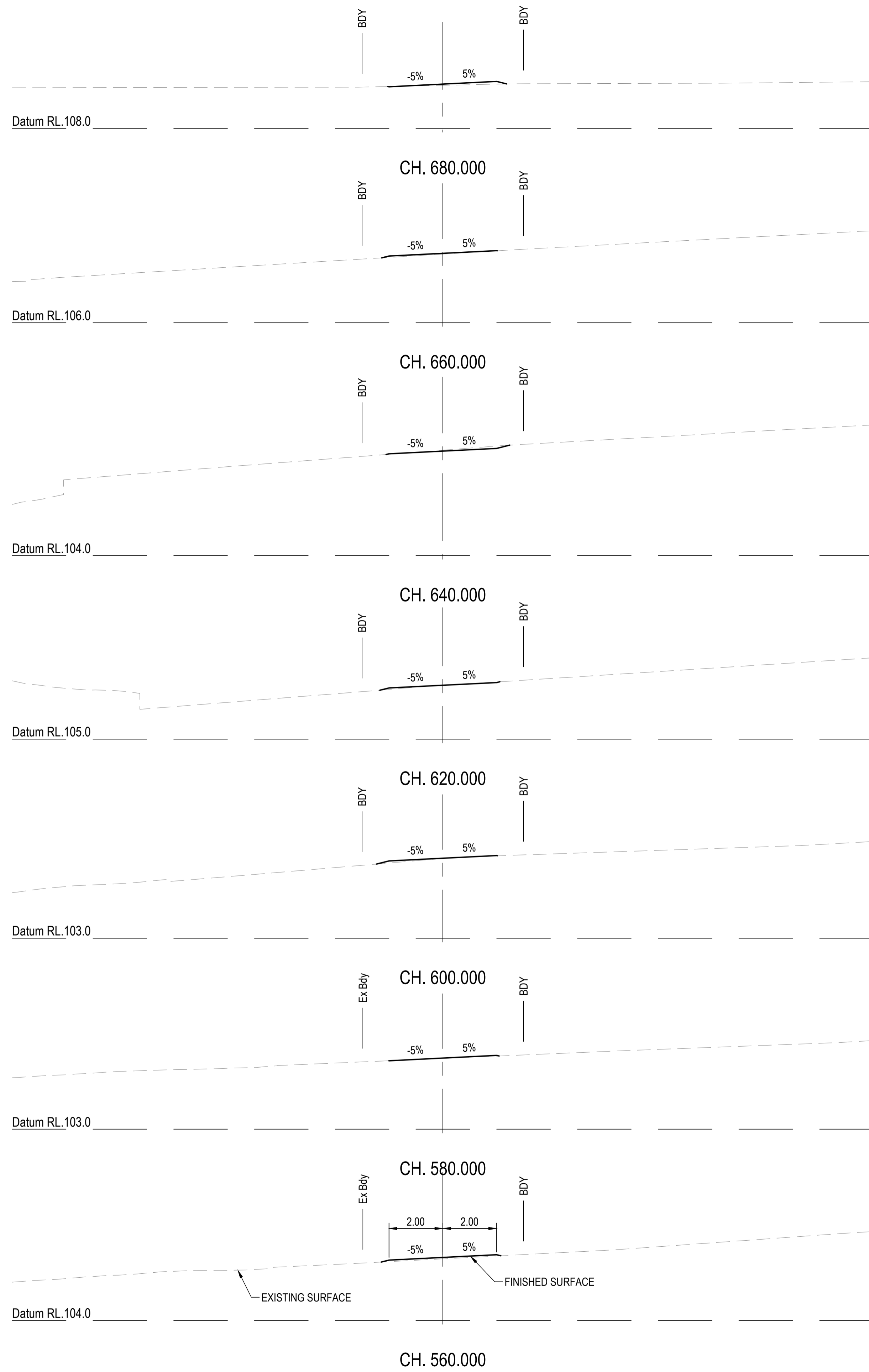
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PO BOX 4107 SPRINGFIELD QLD 4300

SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRAIL 3**  
**CROSS SECTIONS - SHEET 2**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4705	A	



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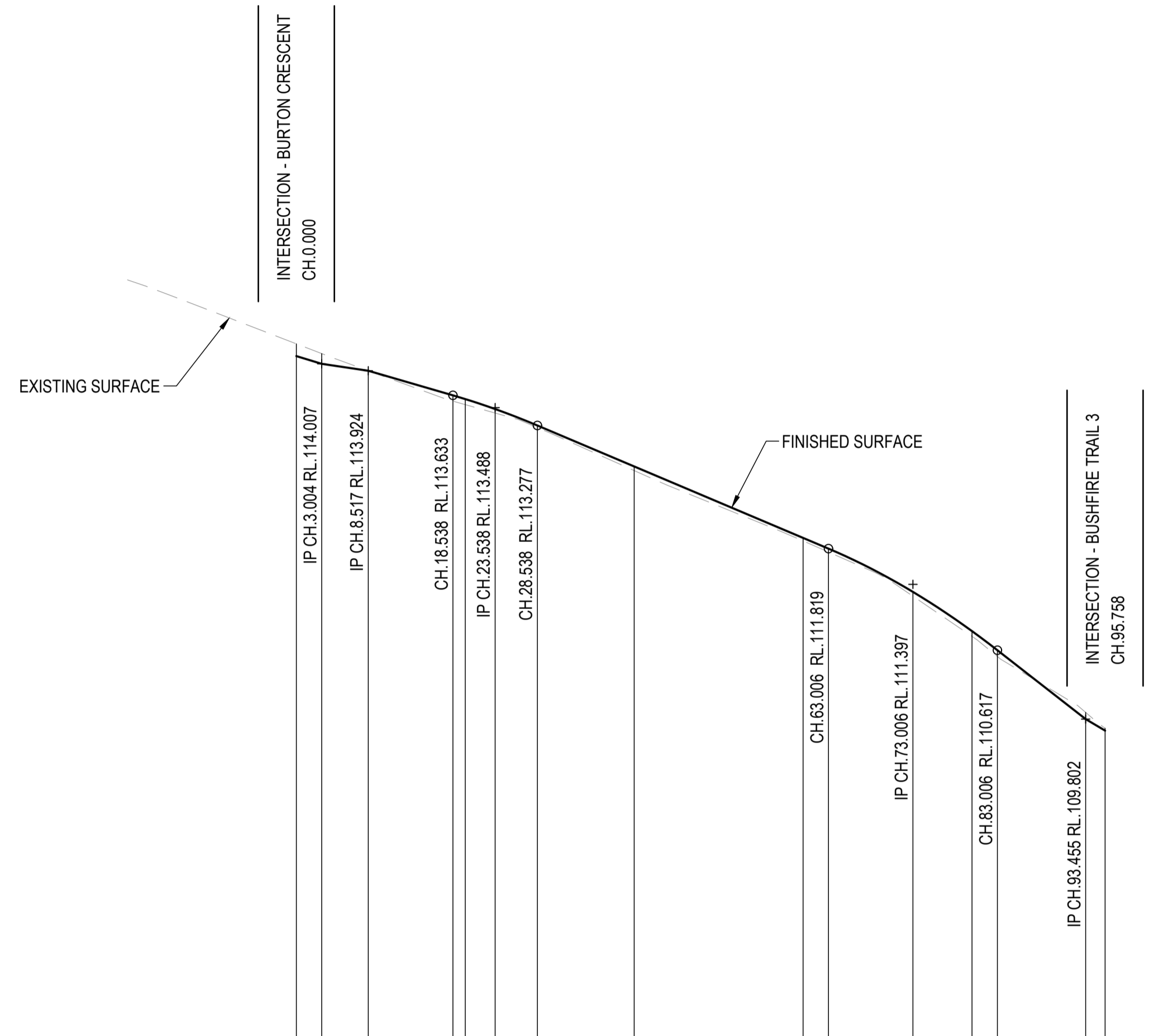
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SCALE  
0 1 2 3 4 5m 10m  
SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRAIL 3**  
**CROSS SECTIONS - SHEET 3**

DRAWING STATUS			
<b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4706	A	

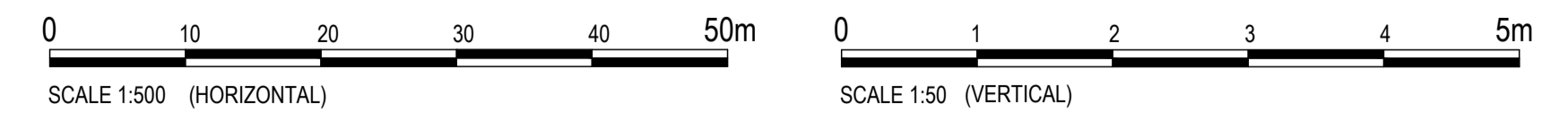
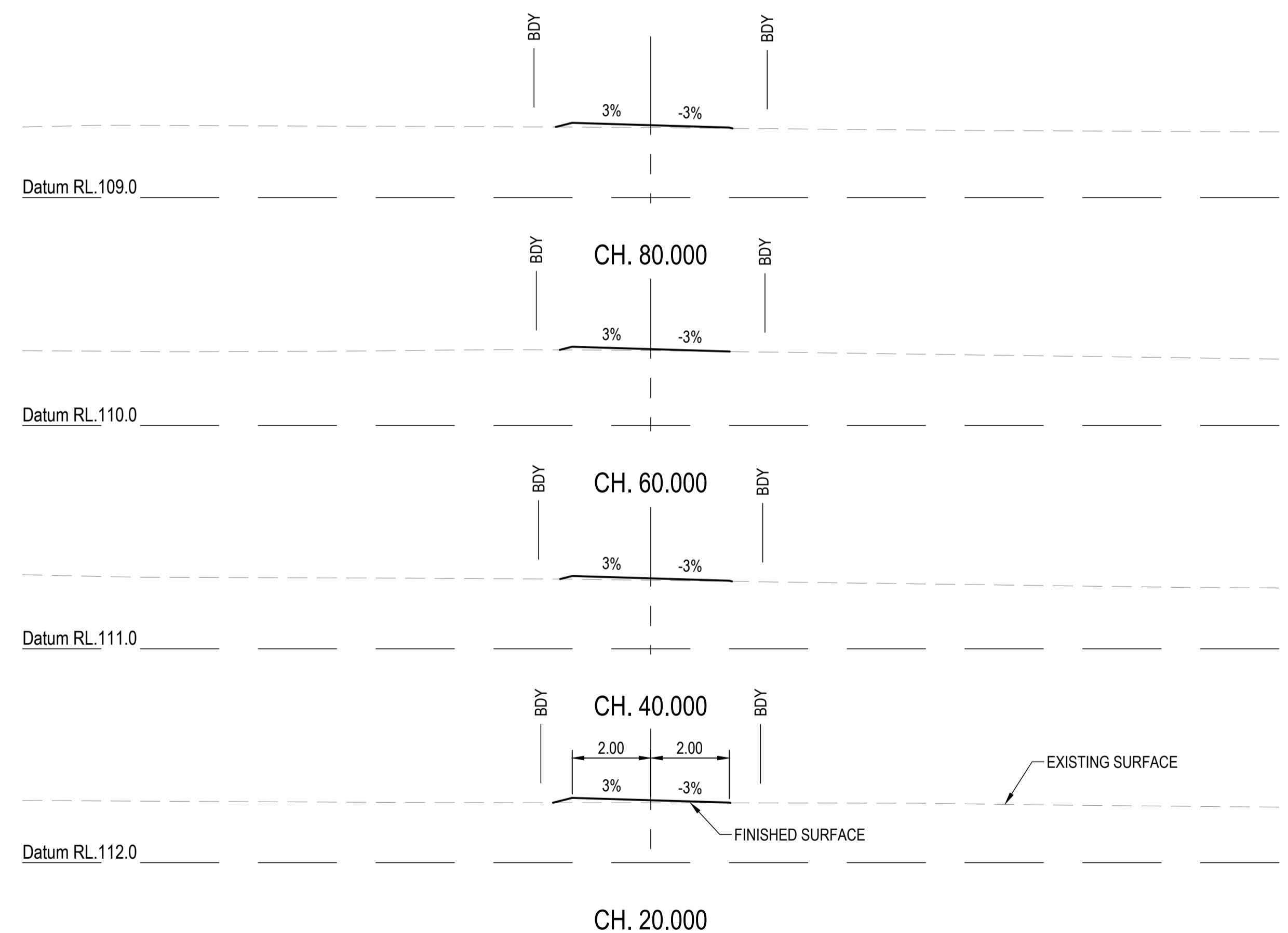


Horiz Curve Data

Vertical Geometry Grade (%)	-3.04%	-1.49%	-2.91%		-4.23%		-7.8%	-5.92%
Vertical Grade Length (m)	3.007m	5.514m	15.020m		49.468m		20.449m	2.309m
Vertical Curve Length (m)			10m VC		20m VC			
Vertical Curve Radius (m)			757m		560m			
DATUM R.L.	103.000							

	0.00	3.004	8.517	18.538	20.000	23.538	28.538	40.000	60.000	63.006	73.006	80.000	83.006	93.455	95.758
NATURAL SURFACE LEVELS	114.243	114.127	113.924	113.565	113.524	113.424	113.251	112.743	111.911	111.779	111.257	110.781	110.543	109.882	109.694
CUT / FILL DEPTH	-0.145	-0.121	0.000	0.068	0.066	0.047	0.025	0.049	0.035	0.040	0.051	0.063	0.074	-0.079	-0.028
DESIGN SURFACE LEVELS	114.098	114.007	113.924	113.633	113.589	113.471	113.277	112.792	111.947	111.819	111.308	110.843	110.617	109.802	109.666
CHAINAGE	0.00	3.004	8.517	18.538	20.000	23.538	28.538	40.000	60.000	63.006	73.006	80.000	83.006	93.455	95.758

**LONGITUDINAL SECTION - BUSHFIRE TRIAL 4**  
 HORIZONTAL SCALE 1:500  
 VERTICAL SCALE 1:50



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No.	REVISION DESCRIPTION
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MP	15/04/24
MP	AS SHOWN
DATE	15/04/24
DRAWN	DATE

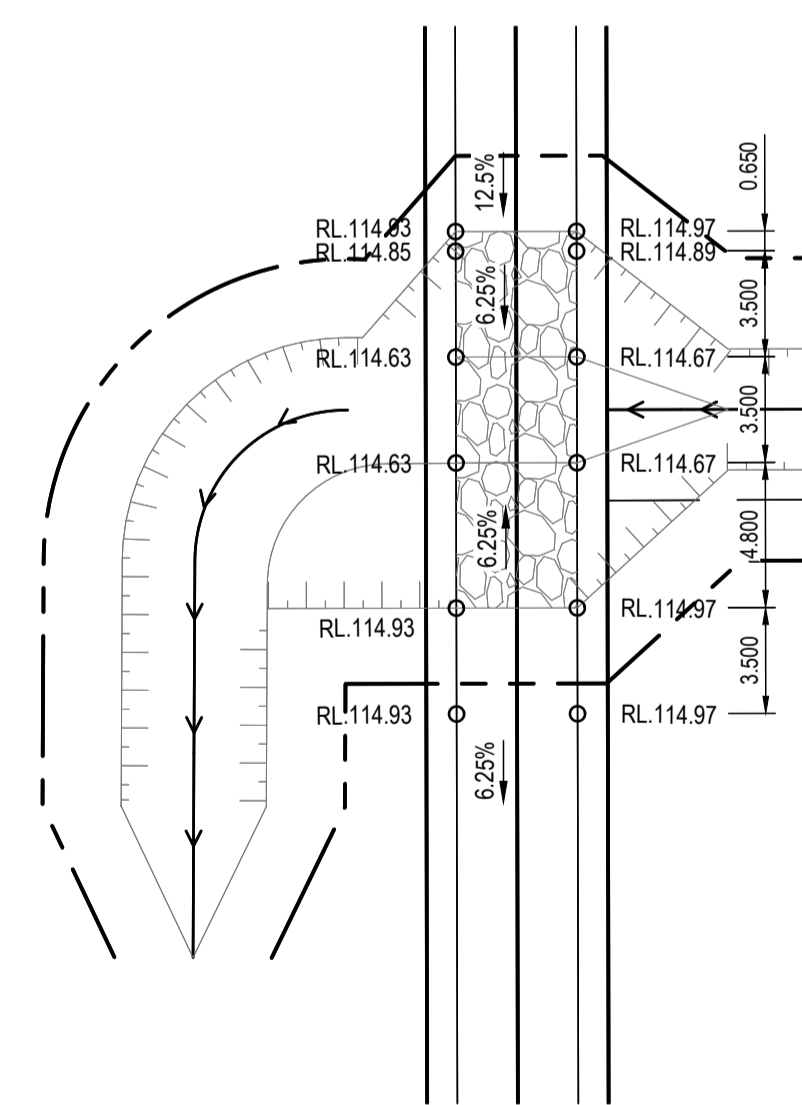
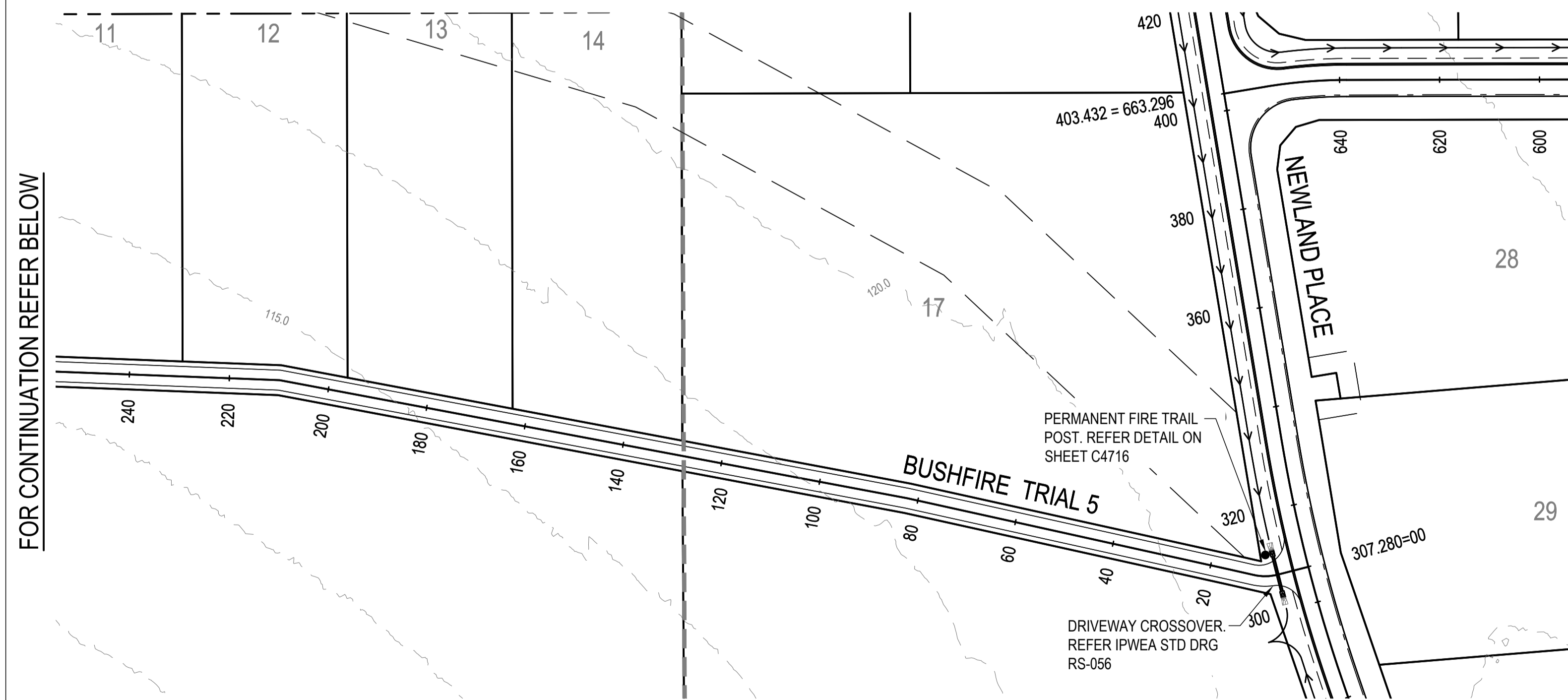
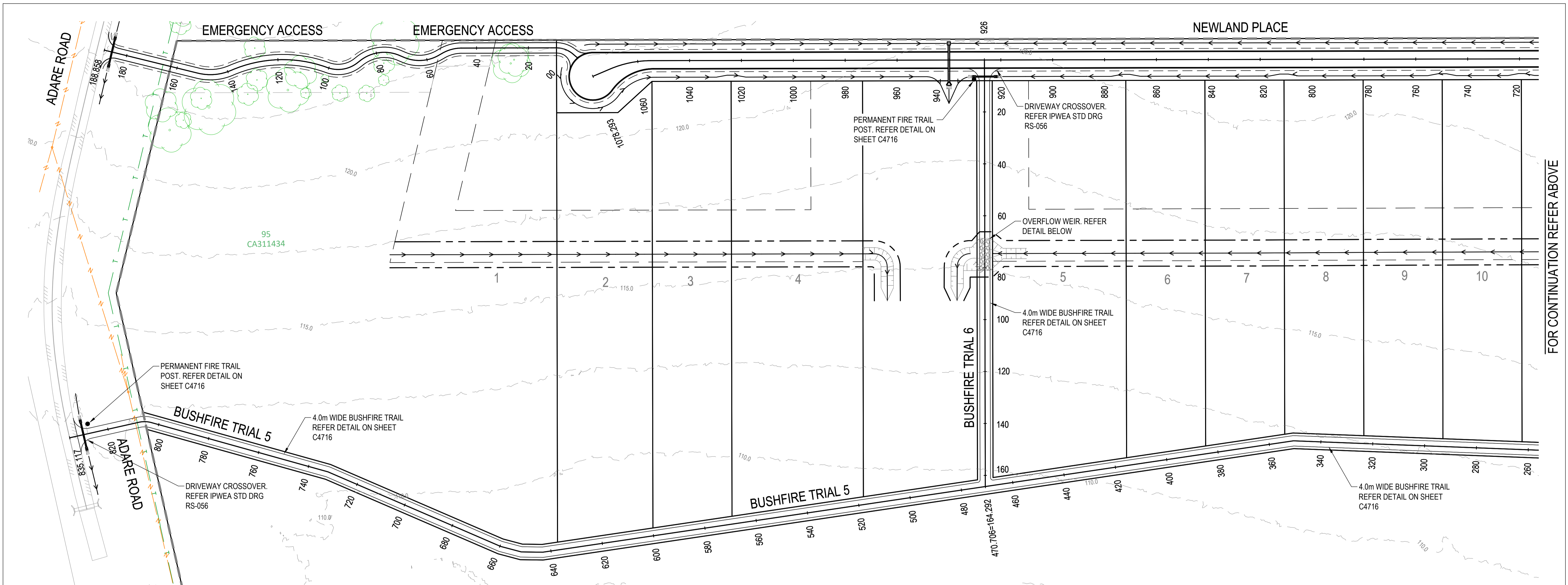
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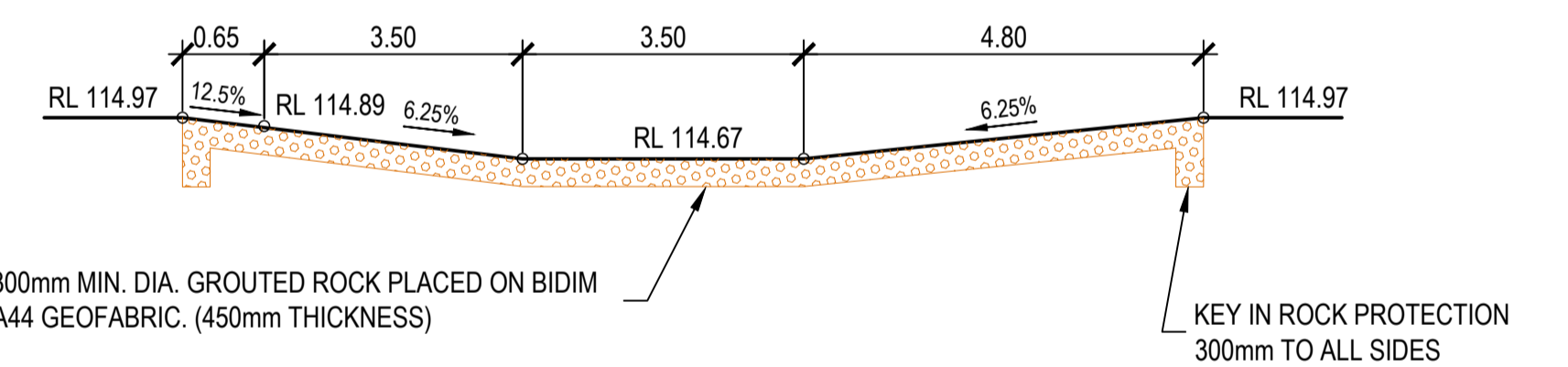
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 PO BOX 4107 SPRINGFIELD QLD 4300  
 SCALE  
 0 1 2 3 4 5m 10m  
 SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**BUSHFIRE TRIAL 4 LONGITUDINAL AND CROSS SECTIONS**

DRAWING STATUS  
**FOR APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION  
 PROJECT LEADER: CK  
 DESIGNER: MP  
 SIGNATURE: [Signature]  
 DRAFTSPERSON: MP  
 SCALE: AS SHOWN  
 DATE: 15/04/24  
 SHEET SIZE: A1  
 JOB No: BR242001  
 DRAWING No: C4707  
 REVISION: A



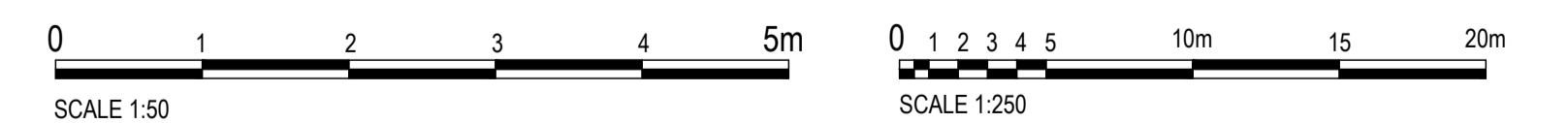
**OVERFLOW WEIR DETAIL**  
SCALE 1:250



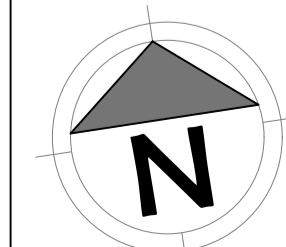
**TYPICAL SECTION THROUGH OVERFLOW WEIR**  
SCALE 1:50

**LEGEND**

EXISTING	PROPOSED



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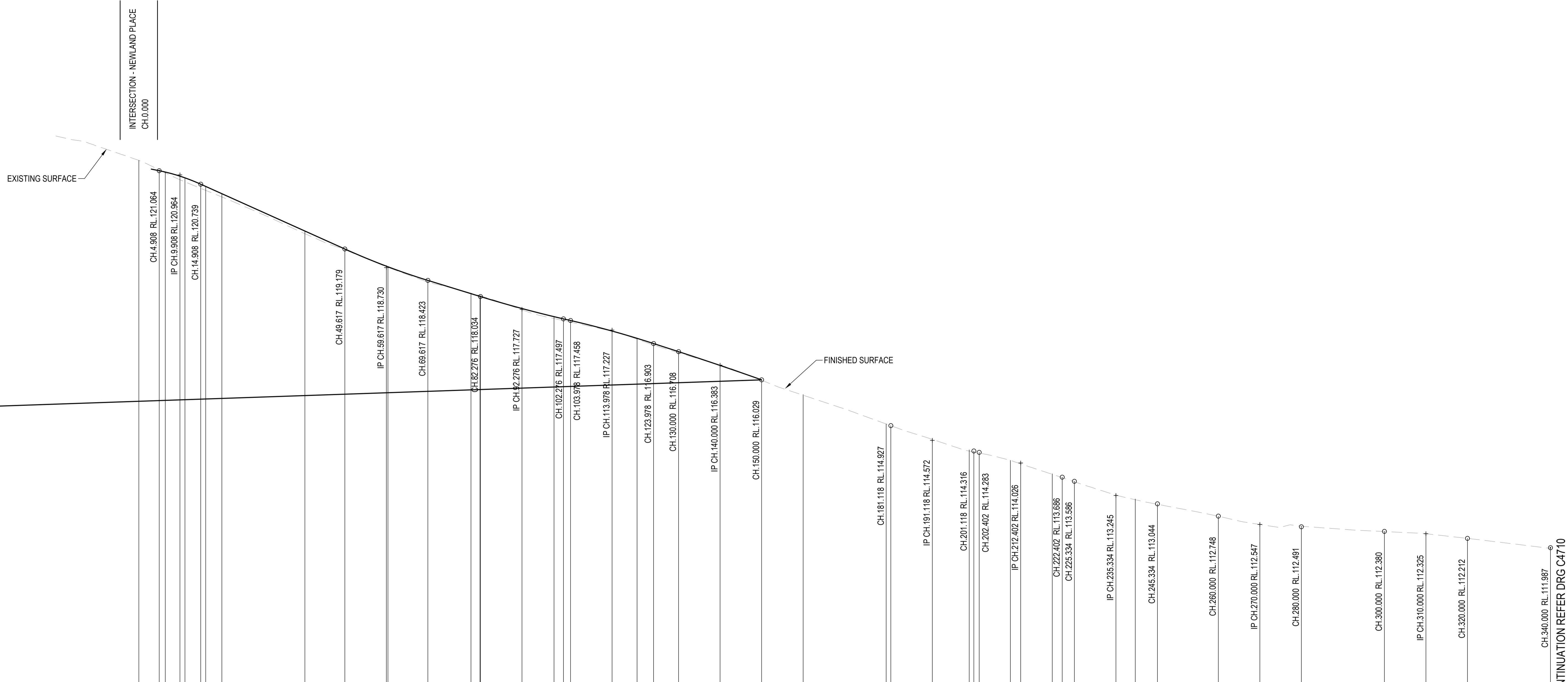
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SCALE  
0 7.5 15 22.5 30 37.5m  
SCALE 1:750

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**BUSHFIRE TRAIL 5 AND 6 PLAN**

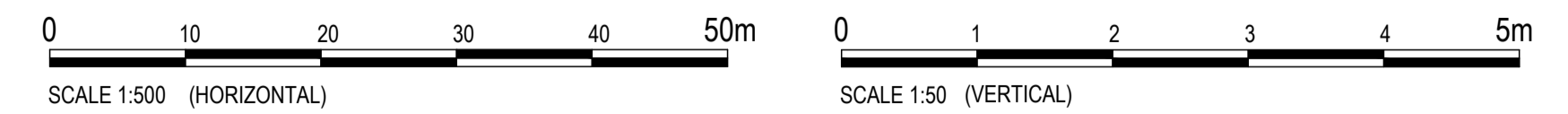
DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4708	A	





Horiz Curve Data		Vertical Geometry		Vertical Curve		DATUM R.L. 106.000	
Chainage	Grade (%)	Grade Length (m)	Curve Length (m)	Curve Radius (m)	Natural Surface Level	Cut / Fill Depth	Design Surface Level
0.000					121.313		
4.908	-2%	6.908m	10m VC	401m	121.084	-0.020	121.064
6.365	-4.49%	49.709m			121.013	0.019	121.032
9.908					120.846	0.087	120.933
11.107					120.795	0.097	120.892
14.908					120.639	0.100	120.739
16.114					120.590	0.095	120.685
20.000					120.432	0.078	120.510
40.000					119.547	0.064	119.612
49.617					119.160	0.020	119.179
59.617					118.750	0.015	118.766
60.000					118.735	0.016	118.751
69.617					118.380	0.043	118.423
80.000	-3.07%	32.659m	20m VC	1406m	118.116	-0.012	118.104
82.169					118.055	-0.017	118.037
82.276					118.051	-0.017	118.034
92.276					117.714	0.032	117.746
100.000					117.505	0.045	117.550
102.276					117.497	0.041	117.497
103.978					117.419	0.039	117.458
113.978					117.202	0.002	117.204
120.000					117.008	0.020	117.028
123.978					116.866	0.037	116.903
130.000					116.679	0.028	116.708
140.000					116.383	-0.007	116.376
150.000					116.019	0.010	116.029
160.000					115.659	0.016	115.675
180.000					114.966	0.000	114.966
181.118					114.926	0.001	114.927
191.118					114.595	0.001	114.597
200.000					114.314	0.031	114.345
201.118					114.292	0.024	114.316
202.402					114.267	0.016	114.283
209.918					114.091	-0.013	114.078
212.402					114.006	-0.000	114.005
220.000					113.754	0.012	113.766
222.402					113.674	0.011	113.686
225.334					113.575	0.011	113.586
235.334					113.252	0.028	113.280
240.000					113.143	0.018	113.161
245.334					113.033	0.011	113.044
260.000					112.746	0.003	112.748
270.000					112.547	0.036	112.583
280.000					112.505	-0.014	112.491
300.000					112.377	0.004	112.380
310.000					112.325	-0.014	112.310
320.000					112.212	0.001	112.212
340.000					111.971	0.016	111.987

LONGITUDINAL SECTION - BUSHFIRE TRIAL 5  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



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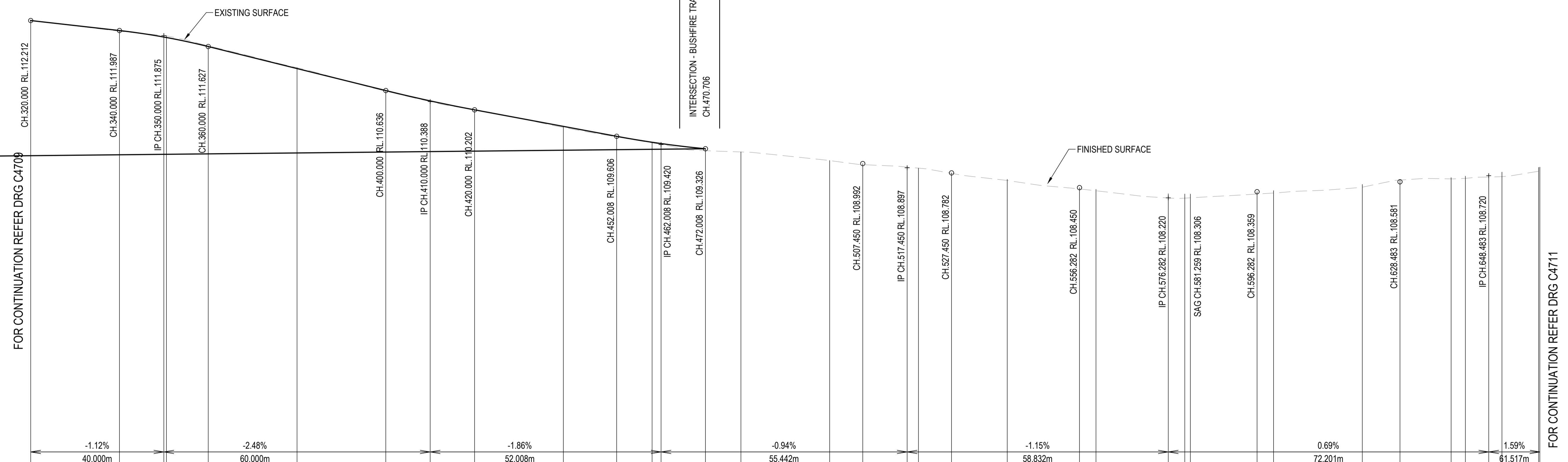
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PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**BUSHFIRE TRIAL 5 LONGITUDINAL SECTION - SHEET 1**

DRAWING STATUS  
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PROJECT LEADER: CK  
DESIGNER: MP  
SIGNATURE: [Signature]  
DRAFTSPERSON: MP  
SCALE: AS SHOWN  
DATE: 15/04/24  
SHEET SIZE: A1  
JOB No: BR242001  
DRAWING No: C4709  
REVISION: A



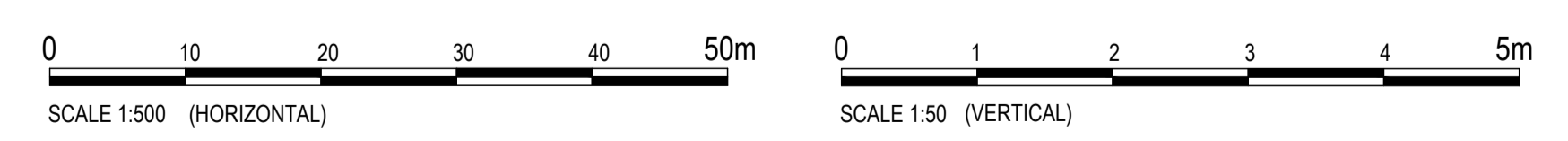
FOR CONTINUATION REFER DRG C4709

FOR CONTINUATION REFER DRG C4711

Horiz Curve Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Vertical Curve Radius (m)  
DATUM R.L.101.000

	112.212	111.971	111.875	111.869	111.645	111.151	110.623	110.388	110.207	109.805	109.593	109.458	109.424	109.283	109.254	109.059	108.968	108.912	108.889	108.772	108.611	108.422	108.380	108.218	108.215	108.222	108.306	108.330	108.461	108.620	108.648	108.659	108.690	108.697	108.820	108.825
NATURAL SURFACE LEVELS	112.212	111.971	111.875	111.869	111.645	111.151	110.623	110.388	110.207	109.805	109.593	109.458	109.424	109.283	109.254	109.059	108.968	108.912	108.889	108.772	108.611	108.422	108.380	108.218	108.215	108.222	108.306	108.330	108.461	108.620	108.648	108.659	108.690	108.697	108.820	108.825
CUT / FILL DEPTH	0.001	0.016	-0.034	-0.039	-0.018	-0.020	0.013	0.015	-0.005	0.025	0.013	0.014	0.019	0.043	-0.003	0.003	0.024	-0.020	-0.024	0.010	0.026	0.029	0.031	0.094	0.092	0.085	0.052	0.055	0.062	-0.039	0.029	0.049	0.075	0.103	0.088	0.087
DESIGN SURFACE LEVELS	112.212	111.987	111.841	111.830	111.627	111.131	110.636	110.404	110.202	109.830	109.606	109.472	109.443	109.326	109.250	109.062	108.992	108.892	108.865	108.762	108.638	108.450	108.411	108.312	108.307	108.306	108.359	108.384	108.523	108.581	108.676	108.708	108.765	108.800	108.908	108.912
CHAINAGE	320.000	340.000	350.000	350.579	360.000	380.000	400.000	410.000	420.000	440.000	452.008	460.000	462.008	472.008	480.000	500.000	507.450	517.450	520.000	527.450	540.000	556.282	560.000	576.282	580.000	581.259	596.282	600.000	620.000	628.483	640.000	643.216	648.483	651.458	659.720	660.000

LONGITUDINAL SECTION - BUSHFIRE TRIAL 5  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



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PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRIAL 5 LONGITUDINAL SECTION - SHEET 2**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4710	SHEET SIZE A1
		REVISION A

FOR CONTINUATION REFER DRG C4710

Horiz Curve Data

Vertical Geometry Grade (%)  
Vertical Grade Length (m)

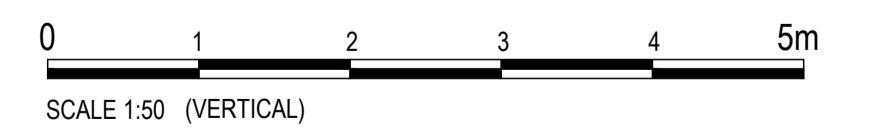
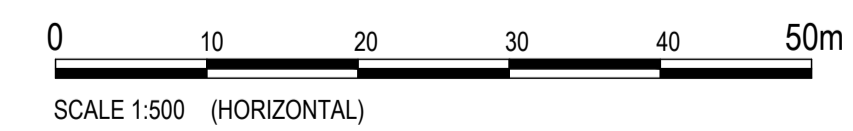
Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L. 102.000

NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS	CHAINAGE
108.648	0.029	108.676	640.000
108.659	0.049	108.708	643.216
108.690	0.075	108.765	648.483
108.697	0.103	108.800	651.458
108.820	0.088	108.908	659.720
108.825	0.087	108.912	660.000
109.001	0.038	109.039	668.483
109.164	0.058	109.222	680.000
109.494	0.046	109.541	700.000
109.663	0.047	109.710	710.000
109.907	-0.007	109.900	720.000
110.186	-0.043	110.143	732.210
110.312	-0.013	110.299	740.000
110.362	-0.002	110.360	743.084
110.698	-0.004	110.693	758.084
110.751	-0.011	110.741	760.000
111.093	0.001	111.094	773.084
111.272	0.022	111.294	780.000
111.859	0.014	111.873	800.000
111.947	0.009	111.956	802.857
112.052	0.047	112.098	807.781
112.227	0.018	112.245	812.837
112.355	-0.059	112.296	815.356
112.385	-0.098	112.287	817.837
112.428	-0.187	112.241	820.000
112.485	-0.362	112.123	822.837
112.467	-0.413	112.054	824.124
112.131	-0.206	111.924	828.124
111.838	0.080	111.918	829.243
111.961	0.000	111.961	832.124
112.051			835.117

LONGITUDINAL SECTION - BUSHFIRE TRIAL 5

HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



REVISIONS:	
No.	REVISION DESCRIPTION
A	ISSUED FOR APPROVAL



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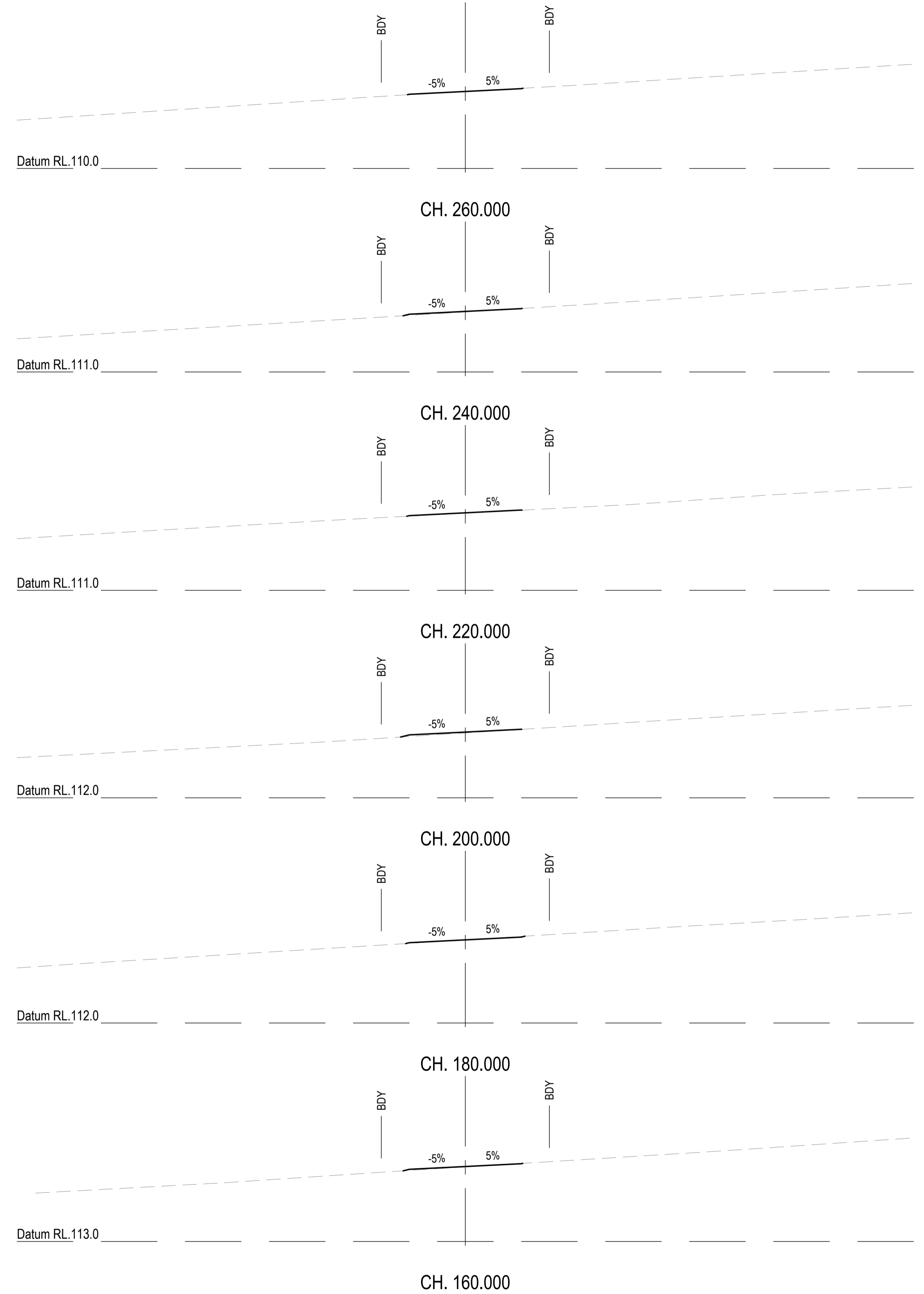
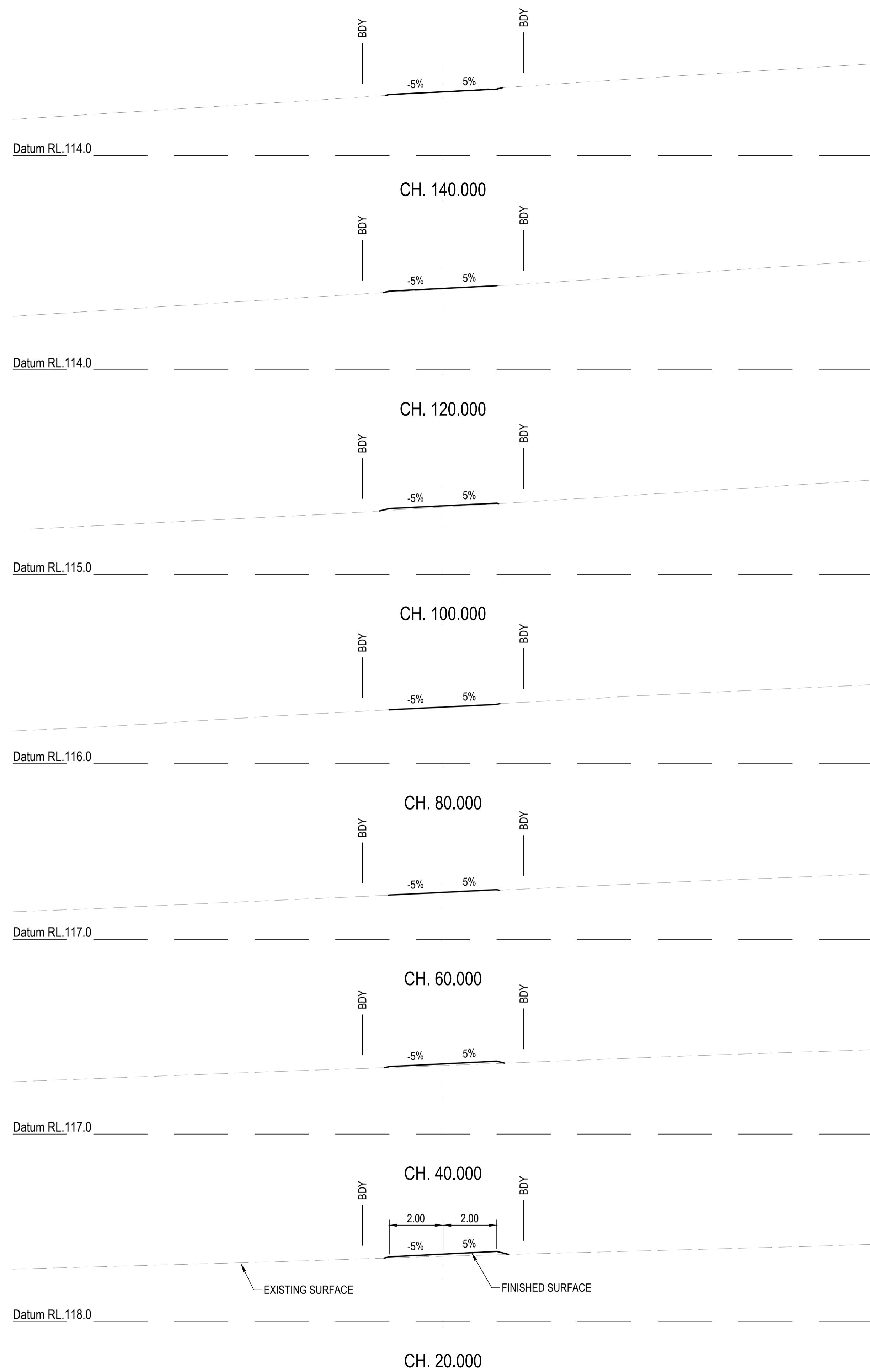
CLIENT  
**PARK LAKE ADARE PTY LTD**  
PO BOX 4107 SPRINGFIELD QLD 4300  
SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5  
DRAWING TITLE  
**BUSHFIRE TRIAL 5 LONGITUDINAL SECTION - SHEET 3**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4711	SHEET SIZE A1
		REVISION A





REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
A	ISSUED FOR APPROVAL	MP	15/04/24



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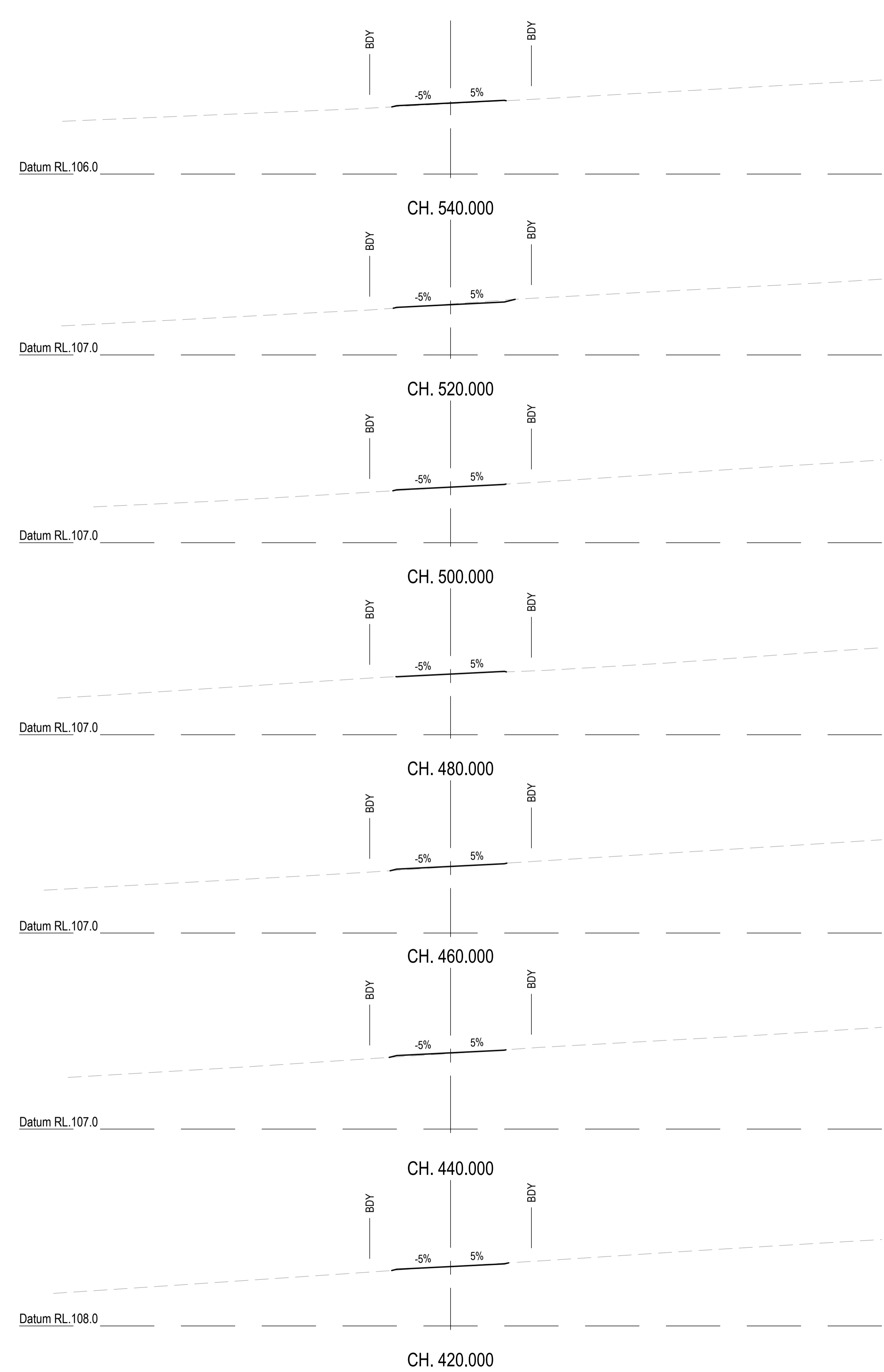
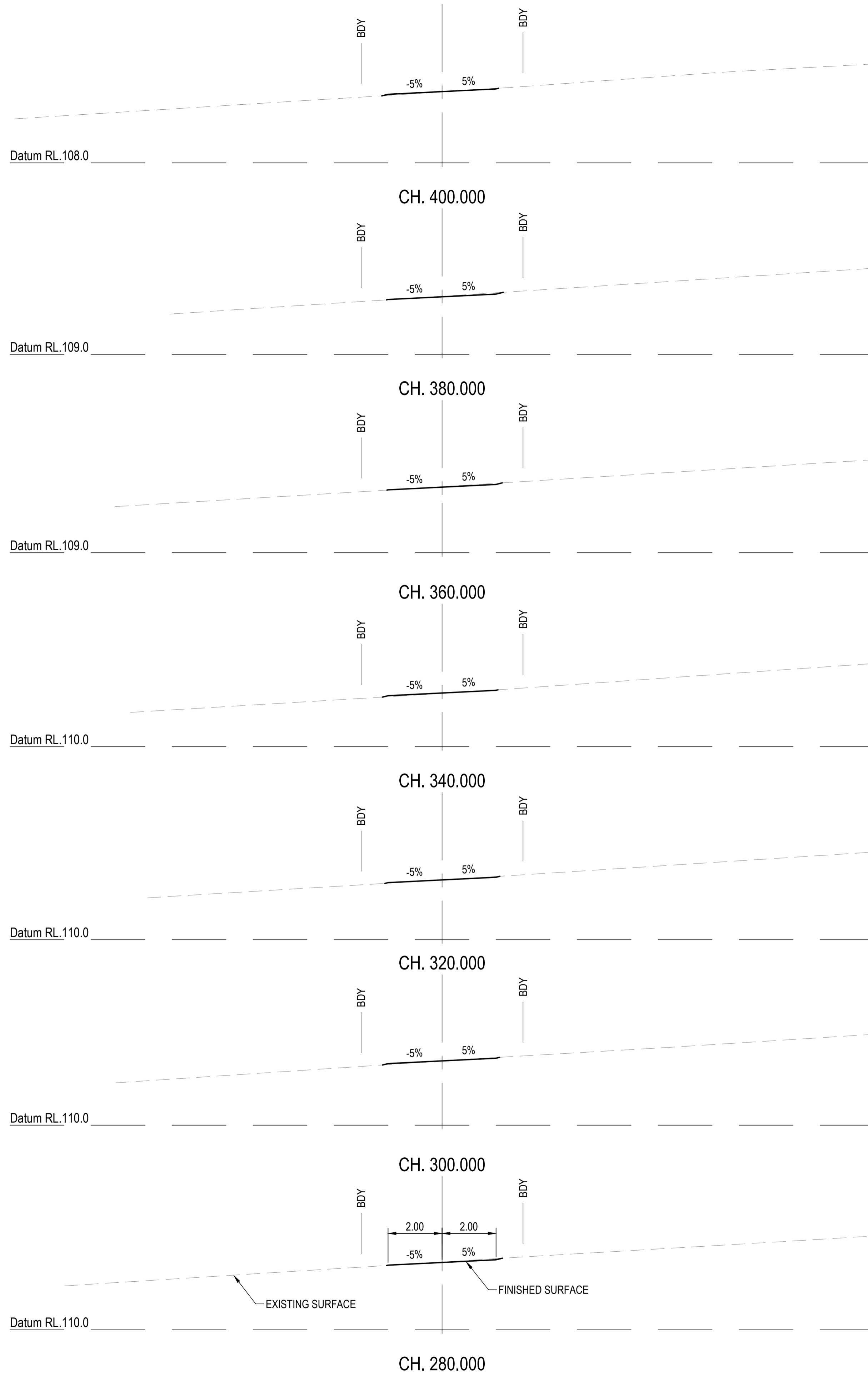
SCALE  
  
 SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRAIL 5**  
**CROSS SECTIONS - SHEET 1**

DRAWING STATUS <b>FOR APPROVAL</b> NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4712	REVISION A	

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A	ISSUED FOR APPROVAL	MP	15/04/24



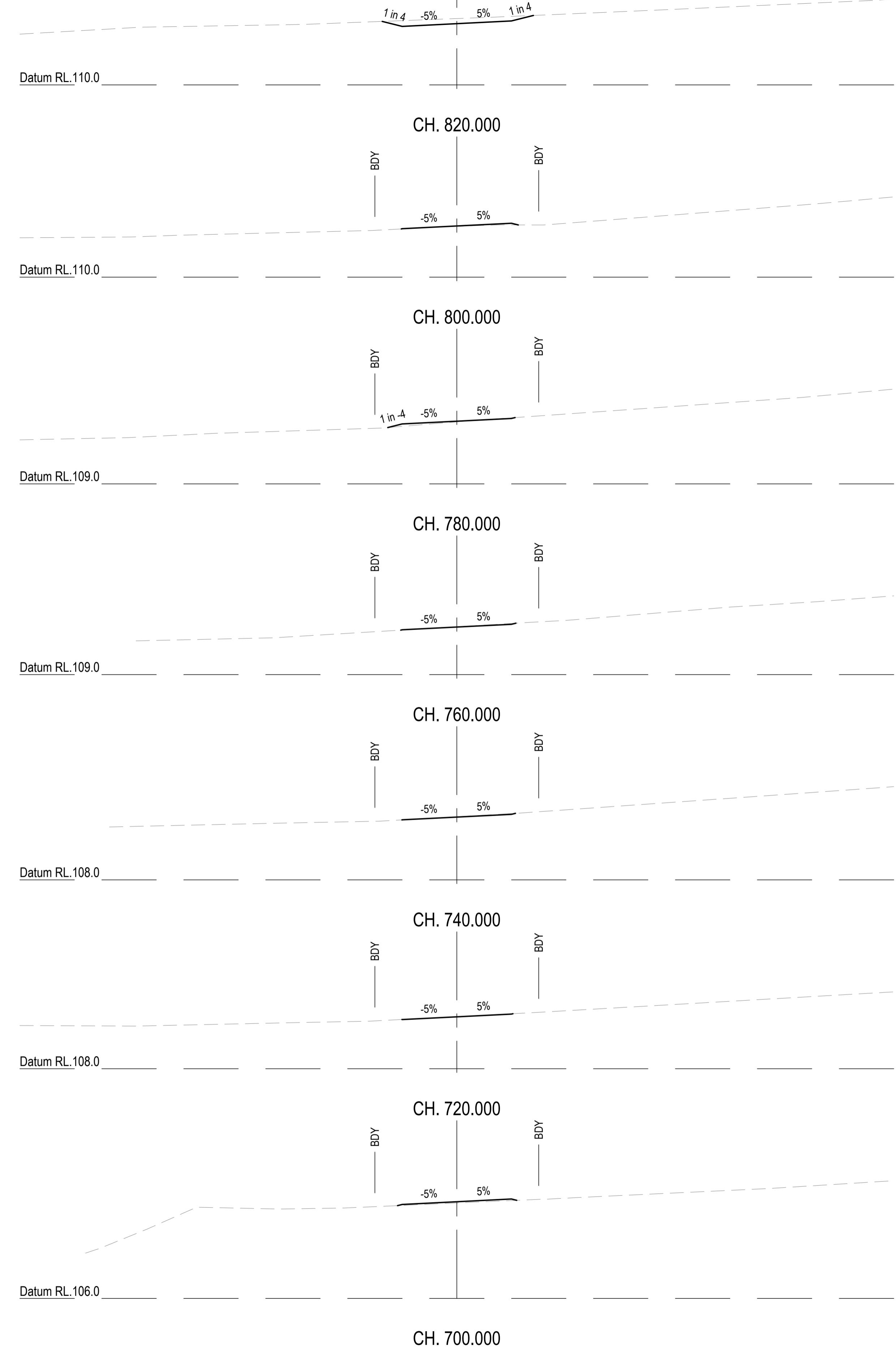
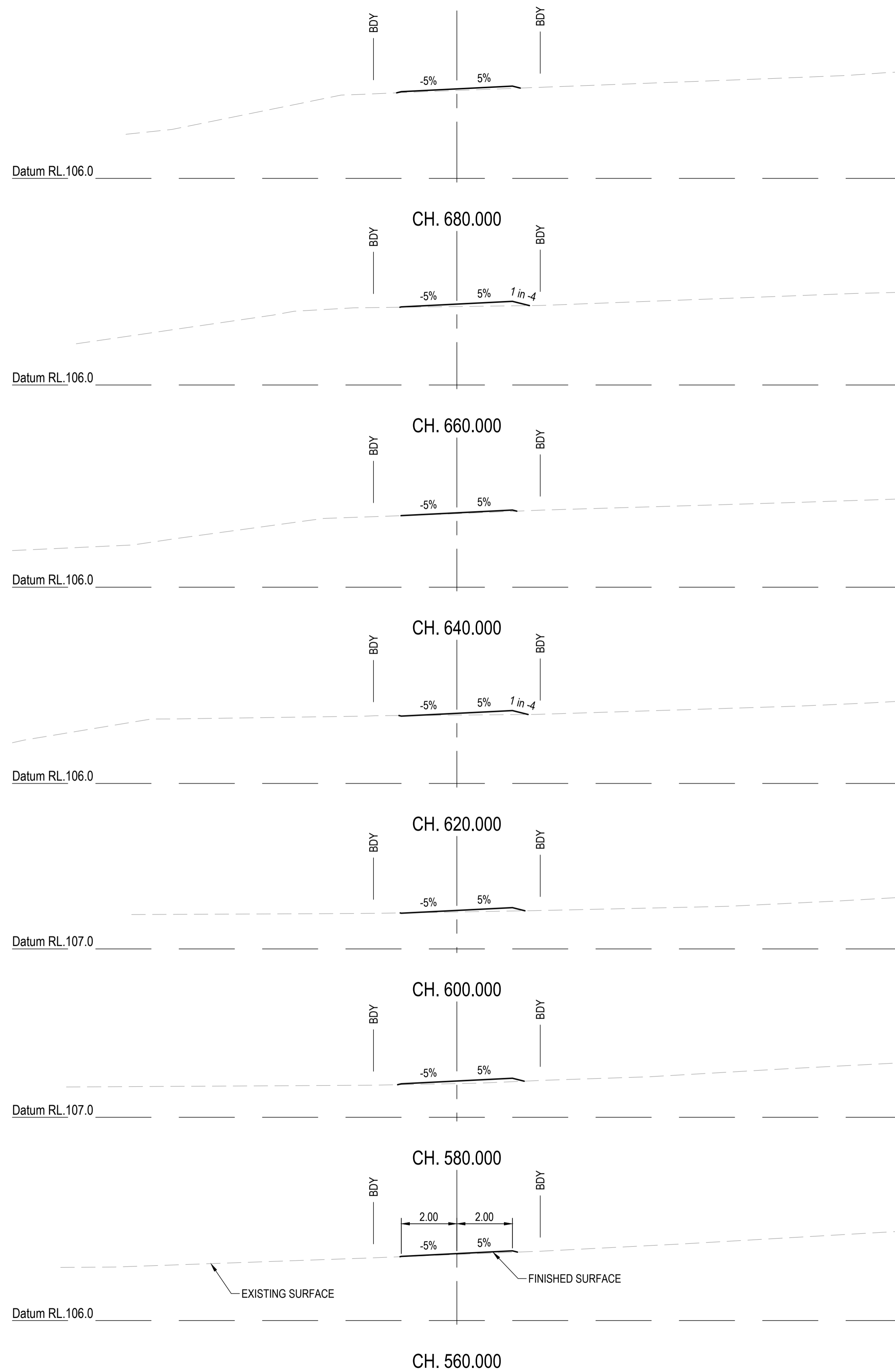
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 SCALE 1:100

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
 174 ADARE ROAD, ADARE, QLD 4343  
 STAGES 4 AND 5  
 DRAWING TITLE  
**BUSHFIRE TRAIL 5**  
**CROSS SECTIONS - SHEET 2**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4713	A	

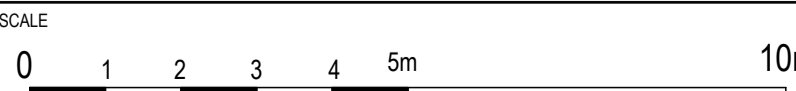


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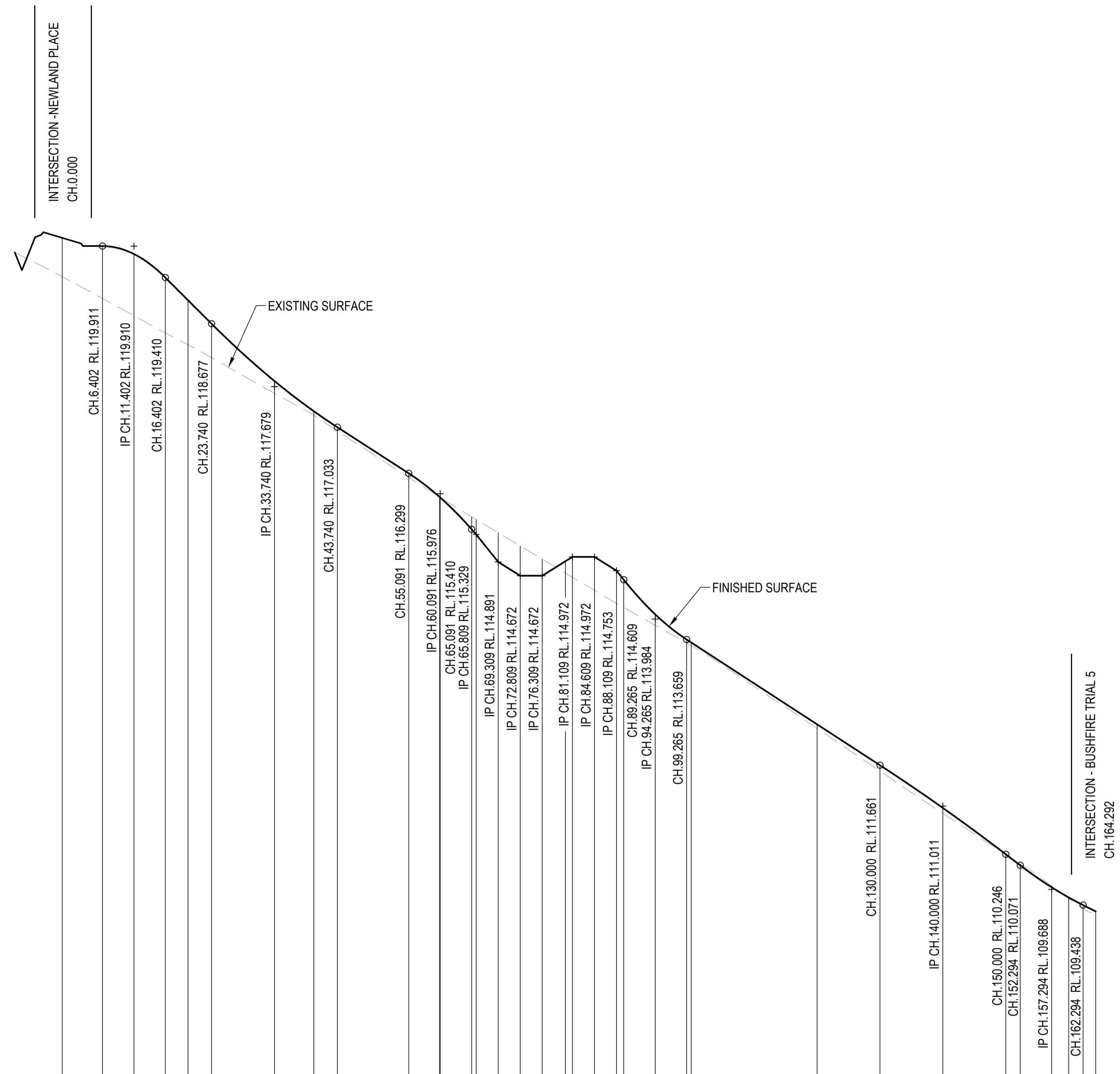
  
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 SCALE 1:100

PROJECT TITLE
   
**PROPOSED SUBDIVISION**
  
 174 ADARE ROAD, ADARE, QLD 4343
   
 STAGES 4 AND 5
   
 DRAWING TITLE
   
**BUSHFIRE TRAIL 5**
  
**CROSS SECTIONS - SHEET 3**

DRAWING STATUS			
<b>FOR APPROVAL</b>			
NOT TO BE USED FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	15/04/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4714	A	

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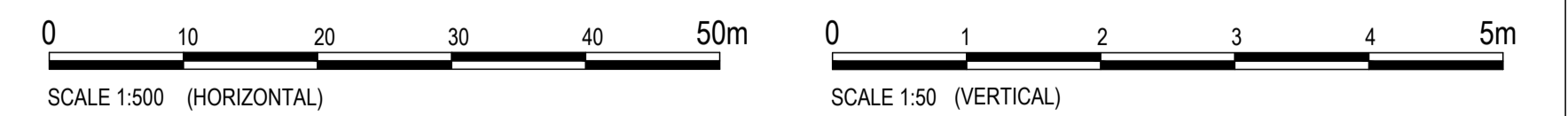
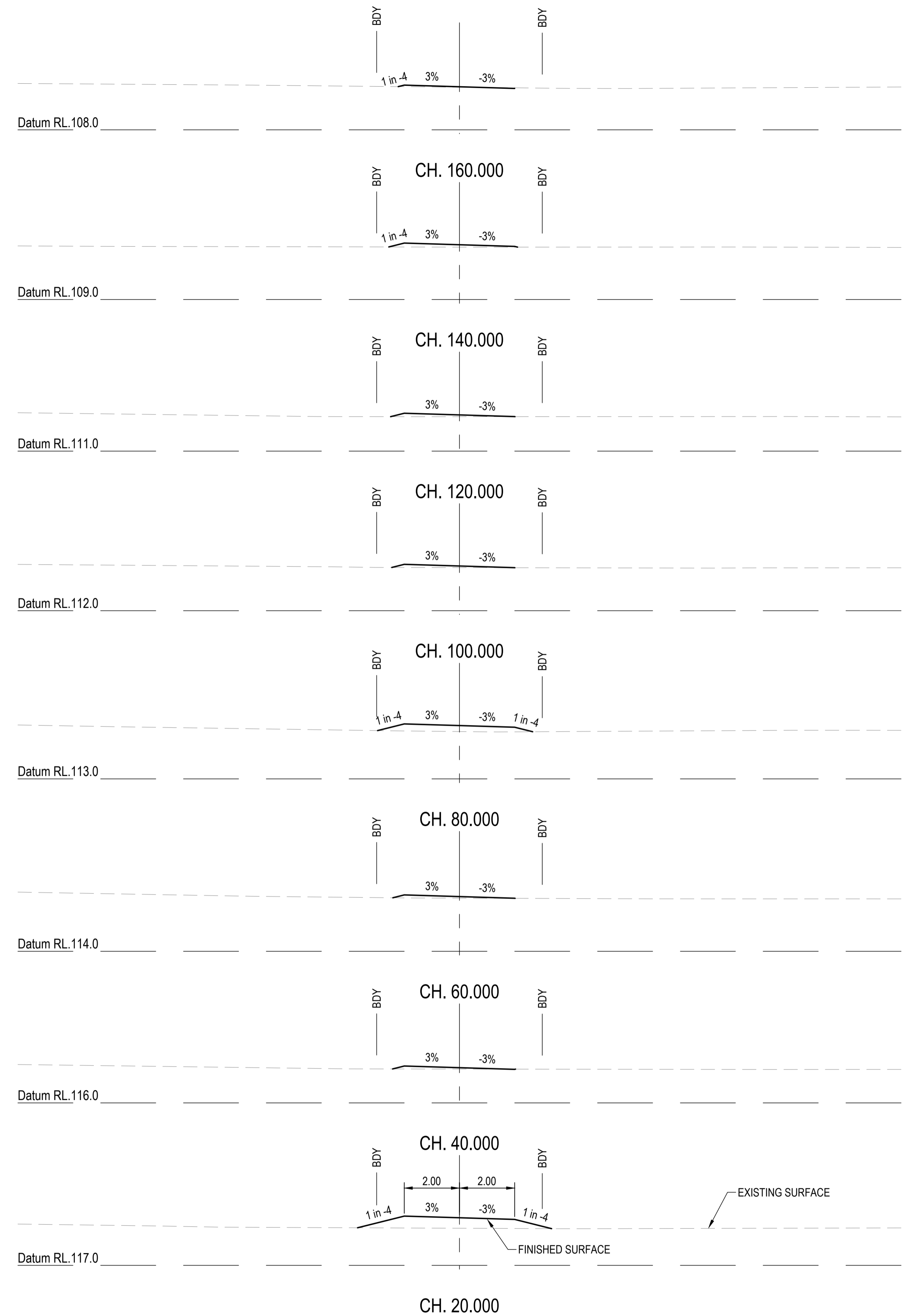


Horiz Curve Data

Vertical Geometry Grade (%)	-0.03%	-9.99%	-6.46%	-11.32%	-12.5%	-6.25%	0%	6.24%	0%	-6.25%	-12.5%	-6.5%	-7.65%	-5%
Vertical Grade Length (m)	8.110m	22.338m	26.351m	5.719m	3.500m	3.500m	4.800m	3.500m	6.156m	45.735m	17.294m	7.000m		
Vertical Curve Length (m)	10m VC	20m VC	10m VC	10m VC	10m VC	10m VC	10m VC	10m VC	10m VC	20m VC	10m VC	10m VC		
Vertical Curve Radius (m)	100m	567m	206m	206m	206m	206m	206m	206m	167m	1742m	378m	378m		
DATUM R.L.104.000														

NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS	CHAINAGE
119.424			0.000
119.079	0.833	119.911	6.402
118.805	0.980	119.785	11.402
118.530	0.880	119.410	16.402
118.344	0.707	119.051	20.000
118.137	0.541	118.677	23.740
117.572	0.195	117.767	33.740
117.225	0.062	117.286	40.000
116.973	0.060	117.033	43.740
116.234	0.066	116.299	55.091
115.924	-0.001	115.924	60.000
115.918	-0.003	115.916	60.091
115.608	-0.198	115.410	65.091
115.565	-0.236	115.329	65.809
115.355	-0.464	114.891	69.309
115.145	-0.473	114.672	72.809
114.936	-0.263	114.672	76.309
114.714	0.189	114.903	80.000
114.648	0.324	114.972	81.109
114.443	0.529	114.972	84.609
114.234	0.519	114.753	88.109
114.168	0.440	114.609	89.265
113.885	0.174	114.059	94.265
113.602	0.057	113.659	99.265
113.560	0.051	113.611	100.000
112.247	0.064	112.311	120.000
111.569	0.092	111.661	130.000
110.896	0.086	110.982	140.000
110.239	0.007	110.246	150.000
110.092	-0.021	110.071	152.294
109.743	-0.022	109.721	157.294
109.542	0.018	109.560	160.000
109.382	0.056	109.438	162.294
109.288	0.051	109.338	164.292

LONGITUDINAL SECTION - BUSHFIRE TRIAL 6  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
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SCALE

SCALE 1:100

PROJECT TITLE

**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

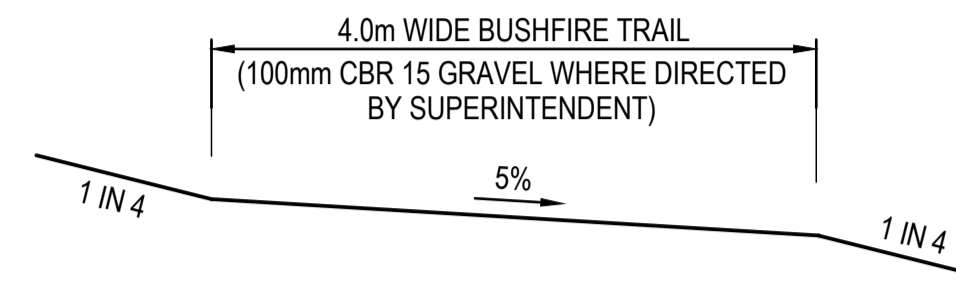
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**BUSHFIRE TRIAL 6 LONGITUDINAL AND CROSS SECTIONS**

DRAWING STATUS

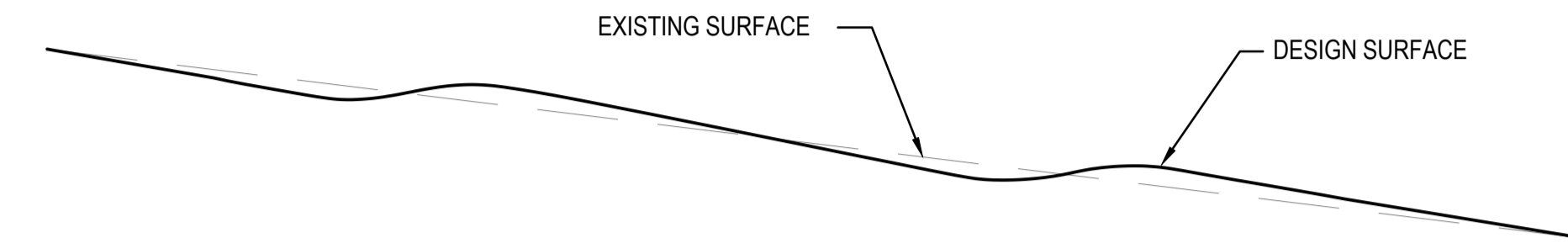
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PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24
JOB No. BR242001	DRAWING No. C4715	SHEET SIZE A1
		REVISION A

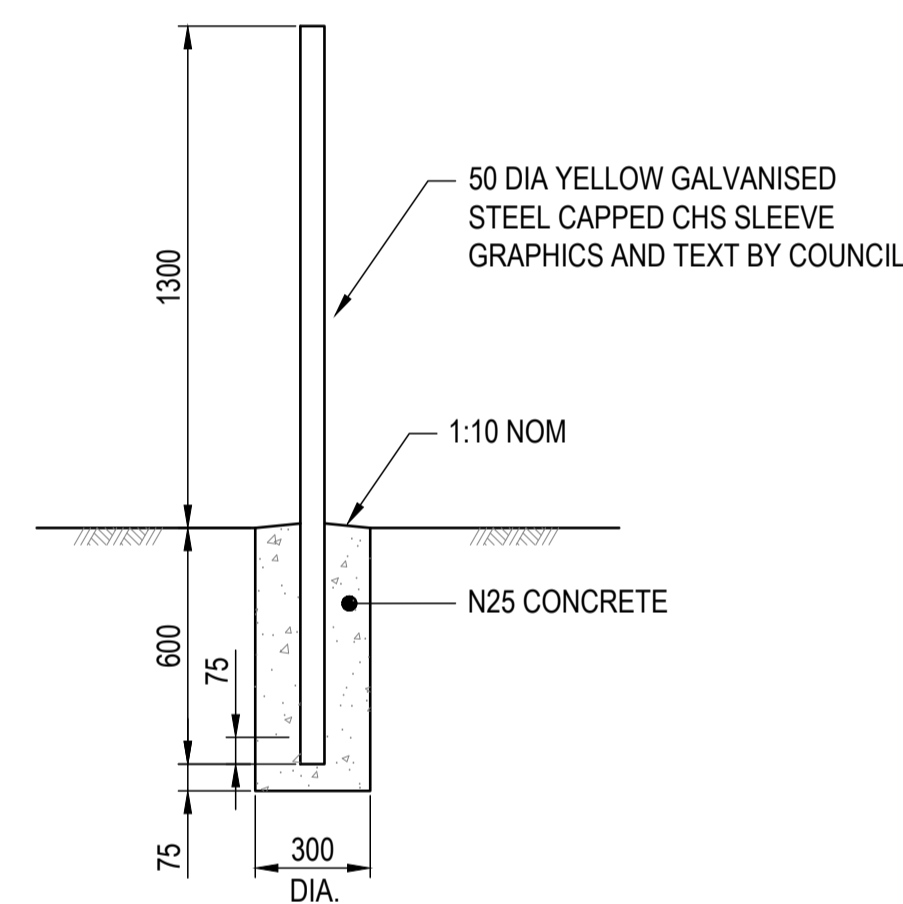


**TYPICAL SECTION - BUSHFIRE TRAIL**  
SCALE 1:50

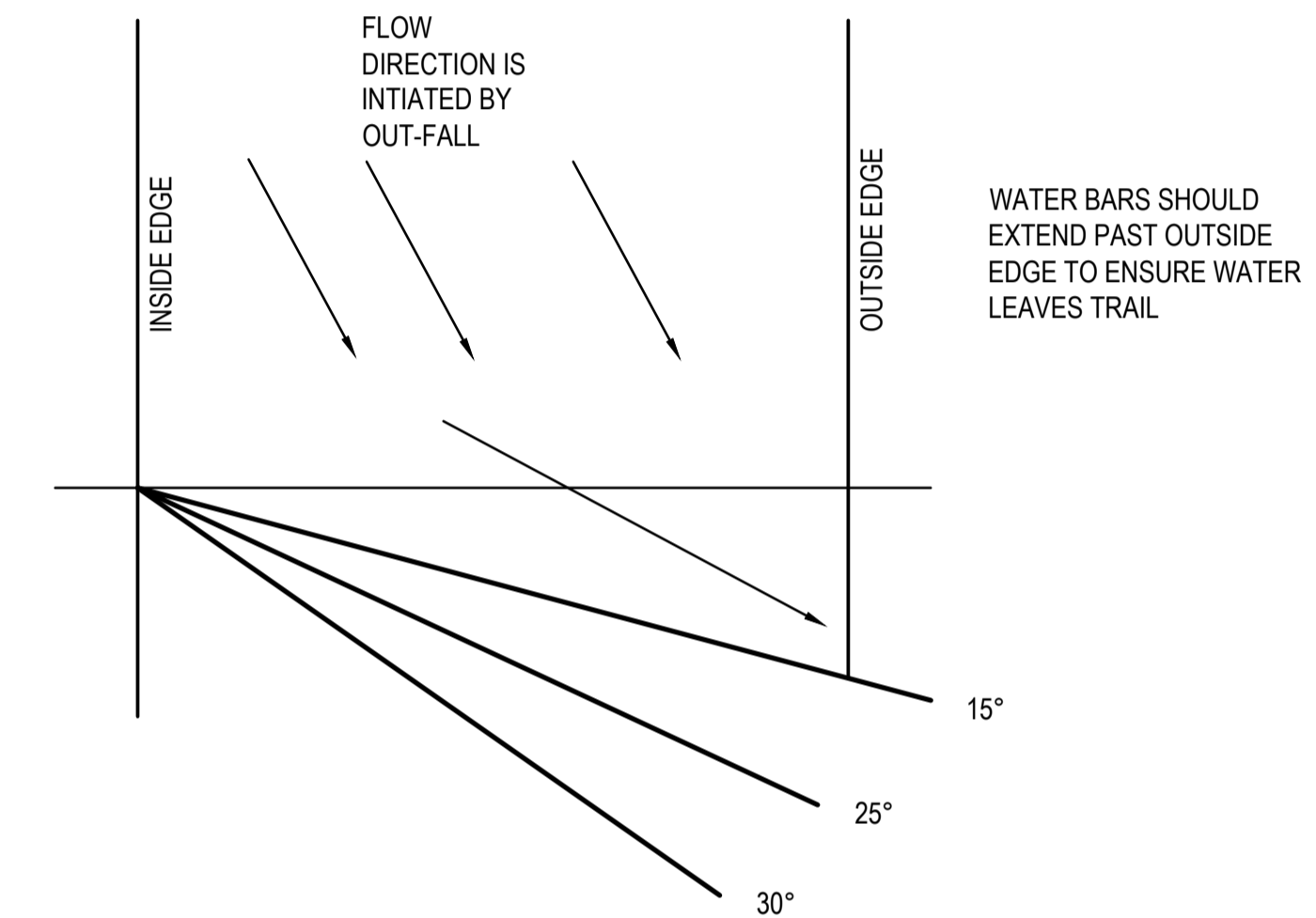
NOTE:  
SUBGRADE SUITABILITY TO BE CONFIRMED  
BY SUPERINTENDENT PRIOR TO GRAVEL PLACEMENT



**FORMATION OF WATERBAR**  
NOT TO SCALE



**PERMANENT FIRE TRAIL POST DETAIL**  
SCALE 1:20

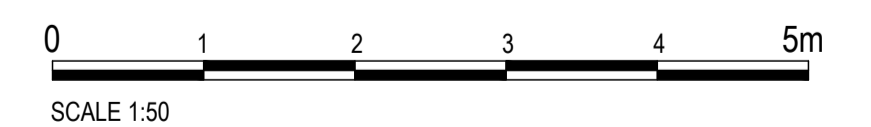
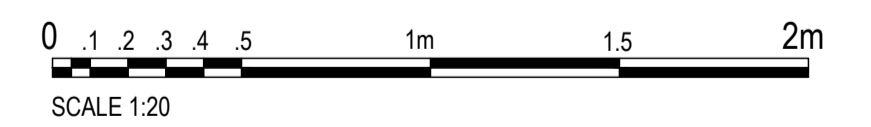


**WATER BAR ORIENTATION ON THE TRAIL**  
NOT TO SCALE

**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.

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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No.	REVISION DESCRIPTION
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PO BOX 4107 SPRINGFIELD QLD 4300

SCALE

PROJECT TITLE  
**PROPOSED SUBDIVISION**  
174 ADARE ROAD, ADARE, QLD 4343  
STAGES 4 AND 5

DRAWING TITLE  
**BUSHFIRE TRAIL DETAILS**

DRAWING STATUS  
**FOR APPROVAL**  
NOT TO BE USED FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 15/04/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4716	REVISION A	