

## Ordinary Council Meeting Agenda

25 December 2030

- (e) Following preparation and compaction of road sub-grade;
- (f) Following placement and compaction of each road pavement layer and prior to laying of the next pavement layer or surfacing layer;
- (g) Of the finished pavement surface prior to any bitumen seal;
- (h) At the point of completion of all works before placing on-maintenance; and
- (i) At the point of requesting Council to accept the works off-maintenance.

- ENG 37 Submit to Council, all inspection and test data in its entirety prepared by the applicant, Engineer, Principal Contractor or by Subcontractors in relation to the Operational Work or as described in the application prior to commencement of the use. Undertake any further inspection, 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 (where applicable).
- ENG 38 Uncover all works covered prior to inspection to allow inspection by Council at Council's sole discretion.
- ENG 39 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, any reasonable instruction given by Council Officers must be considered to be a condition of approval and undertaken by the Principal Contractor.
- ENG 40 Where complete or incomplete works under this approval adversely affect adjoining properties, Council land, roads or other infrastructure, Council requires by notice, works to be completed.
- ENG 41 Undertake any works for the safety or health of the community or protection of infrastructure where Council deems it necessary.

**MAINTENANCE**

- ENG 42 Submit to Council, a written request to place constructed works on-maintenance or off-maintenance from the developer's certifying Engineer stating that all approved works have been completed and are ready for Council inspection.
- ENG 43 Pay to Council, a maintenance bond of 5% of the cost of the operational work as estimated or accepted by Council, prior to commencement of the on-maintenance period.
- ENG 44 Maintain all works that will become Council infrastructure for a period of 12 months (maintenance period) from commencement of the on-maintenance period. Undertake any necessary maintenance or repairs to non-conforming work, defects and/or damage to any works undertaken in relation to this approval, even where damage has resulted from a third party activity within the maintenance period.
- ENG 45 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.
- ENG 46 The on-maintenance period commences only when Council provides written confirmation that all of the following are completed:
- (a) satisfactory completion of all works and conditions of Operational Work approval including associated Material Change of Use approval;

- (b) provision of all necessary test and quality audit requirements;
- (c) lodgement with Council, of certification from an RPEQ that the works have been undertaken in accordance with the approved plans and specifications and to Council's requirements;
- (d) lodgement of a maintenance bond of 5% of the cost of the operational work as accepted by Council;
- (e) submission of "As Constructed" data in the required format; and
- (f) compliance with the conditions of approval for any Operational Work and associated Material Change of Use approval and any other approvals on the subject site.

**AS CONSTRUCTED INFORMATION**

ENG 47 Submit to Council within 10 working days of completion of the operational work, suitable "As Constructed" drawings in hard copy and AutoCAD format and on GDA Zone 56 coordinates. The "As Constructed" drawings or data capture methods as required by Council must be certified by a Registered Professional Engineer of Queensland (RPEQ) on every drawing and shall be to an appropriate electronic format and standard as required by Council's Infrastructure Services General Manager.

ENG 48 Provide "As Constructed" data for the following elements, where applicable:  
(a) Roadworks.

The approval is subject to construction being undertaken in accordance with the Approved Plans prepared by Baker Rossow Consulting Engineers, Project No 180237, as listed below:

Sheet No.	Rev	Drawing/Plan Title	Date
HR_101	A	Road Typical Cross Section and Details	30/9/22
HR_201	A	Greenwood Creek Road Setout Plan – Sheet 1 of 3	30/9/22
HR_202	A	Greenwood Creek Road Setout Plan – Sheet 2 of 3	30/9/22
HR_203	A	Greenwood Creek Road Setout Plan – Sheet 3 of 3	30/9/22
HR_204	A	Greenwood Creek Road Detailed Layout – Sheet 1 of 3	30/9/22
HR_205	A	Greenwood Creek Road Detailed Layout – Sheet 2 of 3	30/9/22
HR_206	A	Greenwood Creek Road Detailed Layout – Sheet 3 of 3	30/9/22
HR_207	A	Greenwood Creek Road Longitudinal Section – Sheet 1 of 5	30/9/22
HR_208	A	Greenwood Creek Road Longitudinal Section – Sheet 2 of 5	30/9/22
HR_209	A	Greenwood Creek Road Longitudinal Section – Sheet 3 of 5	30/9/22
HR_210	A	Greenwood Creek Road Longitudinal Section – Sheet 4 of 5	30/9/22
HR_211	A	Greenwood Creek Road Longitudinal Section – Sheet 5 of 5	30/9/22
HR_212	A	Greenwood Creek Road Cross Section – Sheet 1 of 4	30/9/22
HR_213	A	Greenwood Creek Road Cross Section – Sheet 2 of 4	30/9/22
HR_214	A	Greenwood Creek Road Cross Section – Sheet 3 of 4	30/9/22
HR_215	A	Greenwood Creek Road Cross Section – Sheet 4 of 4	30/9/22
HR_301	A	Tim Dwyer Setout Plan – Sheet 1 of 2	30/9/22



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HR_302	A	Tim Dwyer Setout Plan – Sheet 2 of 2	30/9/22
HR_303	A	Tim Dwyer Detailed Layout- Sheet 1 of 2	30/9/22
HR_304	A	Tim Dwyer Detailed Layout- Sheet 2 of 2	30/9/22
HR_305	A	Tim Dwyer Longitudinal Section – Sheet 1 of 4	30/9/22
HR_306	A	Tim Dwyer Longitudinal Section – Sheet 2 of 4	30/9/22
HR_307	A	Tim Dwyer Longitudinal Section – Sheet 3 of 4	30/9/22
HR_308	A	Tim Dwyer Longitudinal Section – Sheet 4 of 4	30/9/22
HR_309	A	Tim Dwyer Cross Section – Sheet 1 of 5	30/9/22
HR_310	A	Tim Dwyer Cross Section – Sheet 2 of 5	30/9/22
HR_311	A	Tim Dwyer Cross Section – Sheet 3 of 5	30/9/22
HR_312	A	Tim Dwyer Cross Section – Sheet 4 of 5	30/9/22
HR_313	A	Tim Dwyer Cross Section – Sheet 5 of 5	30/9/22
HR_401	A	Vehicle Turning Path Plan	30/9/22

**ADVICE NOTES**

The applicant be advised that:

- (a) Prior to commencement of the use or endorsement of the survey plan as applicable, the applicant shall contact Council to arrange a Development Compliance Inspection.
- (b) The applicant must ensure compliance with environmental conditions whether required to hold an Environmental Authority or not. These include, but are not limited to water quality, air quality, noise levels, waste waters, lighting and visual quality as a result of any activity or by-product or storage of materials within the confines of the building(s) and property boundaries.

Any amendment, alteration or addition to the development approval will require further consideration by Council in assessing any changes to the environmental conditions.

- (c) The Aboriginal Cultural Heritage Act 2003 (ACHA) is administered by the Department of Aboriginal and Torres Strait Islander and Multicultural Affairs (DATSIMA). The ACHA establishes a duty of care to take all reasonable and practicable measures to ensure any activity does not harm Aboriginal cultural heritage. This duty of care:
  - (i) is not negated by the issuing of this development approval;
  - (ii) applies on all land and water, including freehold land;
  - (iii) lies with the person or entity conducting an activity; and
  - (iv) if breached, is subject to criminal offence penalties.

Those proposing an activity involving surface disturbance beyond that which has already occurred at the proposed site must observe this duty of care. Details of how to fulfil this duty of care are outlined in the duty of care guidelines gazetted with the ACHA. The applicant should contact DATSIP's Cultural Heritage Co-ordination Unit on telephone (07) 3224 2070 for further information on the responsibilities of developers under the ACHA.

- (d) The **relevant period** for the development approval (Operational Work) shall be **two (2) years** starting the day the approval is granted or takes effect. In accordance with Section 85(1)(c) of the Planning Act 2016 (PA), the development approval for Operational Work lapses if the development does not substantially start within the abovementioned **relevant period**.

An applicant may request Council to extend the **relevant period** provided that such request is made in accordance with Section 86 of PA and before the development approval lapses under Section 85 of the PA.

- (e) Council is to be indemnified against any claims arising from works carried out by the applicant on Council's property.
- (f) The relevant Planning Scheme for this Development Permit is the South Burnett Regional Council Planning Scheme 2017. All references to the Planning Scheme and Schedules within these conditions refer to the above Planning Scheme.

**FINANCIAL AND RESOURCE IMPLICATIONS**

No implication can be identified.

**LINK TO CORPORATE/OPERATIONAL PLAN**

Growing our Region's Economy and Prosperity

- GR8 Support and advocate for appropriate growth and development with responsive planning schemes, process, customer service and other initiatives.

**COMMUNICATION/CONSULTATION (INTERNAL/EXTERNAL)**

Refer to CONSULTATION in this report.

**LEGAL IMPLICATIONS (STATUTORY BASIS, LEGAL RISKS)**

No implication identified.

**POLICY/LOCAL LAW/DELEGATION IMPLICATIONS**

No implication can be identified.

**ASSET MANAGEMENT IMPLICATIONS**

The reconstructed Greenwood Creek Road, and Tim Dwyer Road remain Council assets.



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**REPORT****1. APPLICATION DETAILS**

Site address	79 Tim Dyer Road, East Nanango		
Real property description	Lot 169 on CSH697		
Easements or encumbrances on title	N/A		
Area of Site	1450687 Ha		
Current Use	Rural		
Environmental Management Register or Contaminated Land Register	Existing Cattle Dip		
Applicant's name	D Cassidy & Co		
Zone	Rural		
Applicable Overlays	Nil		
Proposed use as defined	N/A - Operational Work		
Details of proposal	Upgrading Greenwood Creek Road between Hamilton Road and Tim Dwyer Road, and Tim Dwyer Road from Greenwood Creek to the quarry access.		
Application type	Aspects of Development	Type of Approval Requested	
		Preliminary Approval	Development Permit
	Material Change of Use (MCU)		
	Reconfiguration of a Lot (RAL)		
	Building Work (BW)		
	Operational Work (OPW)		X
Level of Assessment	Code Assessment		
Pre-lodgement Consultation history /	- NIL		
Key planning issues e.g. vegetation, waterway corridors, overland flow	Clearing requirements are to be confirmed. Works in waterways to meet the "Accepted development requirements for operational work that is constructing or raising waterway barrier works" published by the Department of Agriculture and Fisheries, or approval sought.		
Referral agencies	Agency	Concurrence/ Advice	
	NA	NA	
Public notification	NA		
Planning Regulation 2017	-		

**2. THE SITE**

This section of the report provides a description of the site, details about the existing use and notable characteristics of the site, the standard of servicing; and the form of development in the immediately locality.

**2.1. SITE DESCRIPTION & EXISTING USE**

Table 1 – Maps & Descriptions (Source: Queensland Globe)

Greenwood Creek Road between Hamilton Road and Tim Dwyer Road, and Tim Dwyer Road from Greenwood Creek to the quarry access. The existing road will be upgraded to a 6m pavement on an 8m formation. Sections of Greenwood Creek will be bitumen sealed. The remainder of the road will remain unsealed.



**3. PROPOSAL DETAILS**

The proposal plans as set out in Table 1 below are included in.

**3.1. REFERRAL AGENCIES**

To determine whether the development application requires referral to the State Assessment and Referral Agency (SARA) or 'another entity', an assessment of the proposal against Schedule 10 of the Regulation has been undertaken.

The application does not require referral to any referral agencies prescribed under Schedule 10.



### 3.2. DEVELOPMENT CODE ASSESSMENTS

The proposal has been assessed against the relevant codes and requirements of the Planning Scheme, and is considered to comply without exception, or where identified as non-compliant, has been addressed through conditions.

#### SERVICE AND WORKS CODE

Performance outcomes	Assessment benchmarks	Assessment
<b>General</b>		
<b>PO1</b> The development is planned and designed considering the land use constraints of the site for achieving stormwater design objectives.	<b>AO1.1</b> A stormwater quality management plan provides for achievable stormwater quality treatment measures that meet the design objectives identified in Table 9.4.4.	N/A for Operational Work
<b>PO2</b> Development does not discharge wastewater to a waterway or off-site unless demonstrated to be best practice environmental management for that site.	<b>AO2.1</b> A wastewater management plan prepared by a suitably qualified person and addresses : (a) wastewater type; (b) climatic conditions; (c) water quality objectives; (d) best-practice environmental management;  and <b>AO2.2</b> Wastewater is managed in accordance with a waste management hierarchy that: (a) avoids wastewater discharge to waterways; or (b) minimises wastewater discharge to waterways by re-use, recycling, recovery and treatment for disposal to sewer, surface water and groundwater.	N/A
<b>PO3</b> Construction activities avoid or minimise adverse impacts on stormwater quality.	<b>AO3.1</b> An erosion and sediment control plan addresses the design objectives for the construction phase in Table 9.4.4.	Erosion and sediment control has been conditioned – ENG 32. No changes to stormwater arrangements. Culvert extensions only.
<b>PO4</b> Operational activities avoid or minimise changes to waterway hydrology from adverse impacts of altered stormwater quality and flow.	<b>AO4.1</b> Development incorporates stormwater flow control measures to achieve the design objectives for the post-construction phase in Table 9.4.4.	N/A



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Performance outcomes	Assessment benchmarks	Assessment
<b>Infrastructure</b>		
<p><b>PO5</b> Development is provided with infrastructure which:</p> <ul style="list-style-type: none"> <li>(a) conforms with industry standards for quality;</li> <li>(b) is reliable and service failures are minimised; and</li> <li>(c) is functional and readily augmented.</li> </ul>	<p><b>AO5.1</b> Except in the Rural zone, all development occurs on a site with frontage to a sealed road.</p> <p>and</p> <p><b>AO5.2</b> Infrastructure is designed and constructed in accordance with the standards contained in PSP1 – Design and Construction Standards.</p>	<p>N/A</p> <p>Infrastructure has been designed in accordance with the PSP1, and/or in accordance with relevant engineering standards.</p>
<b>Vehicle parking</b>		
<p><b>PO6</b> Vehicle parking and access is provided to meet the needs of occupants, employees, visitors and other users.</p>	<p><b>AO6.1</b> Vehicle parking spaces are provided on-site in accordance with Table 9.4.5.</p> <p>and</p> <p><b>AO6.2</b> A service bay is provided on-site for the service vehicle nominated in Table 9.4.5.</p> <p>and</p> <p><b>AO6.3</b> Driveway crossings are provided to the standard contained in PSP1 – Design and Construction Standards.</p> <p>and</p> <p><b>AO6.4</b> Vehicle parking and manoeuvring areas are provided in accordance with the standards contained in PSP1 – Design and Construction Standards.</p>	<p>N/A</p>
<b>Landscaping</b>		
<p><b>PO7</b> Landscaping is appropriate to the setting and enhances local character and amenity.</p>	<p><b>AO7.1</b> Landscaping is provided in accordance with the relevant zone code provisions.</p> <p>and</p> <p><b>AO7.2</b> Where shade tree planting is required in vehicle parking areas each planting bed has a minimum area of 2m<sup>2</sup> and is unsealed and permeable.</p> <p>and</p> <p><b>AO7.3</b> Plantings along frontages or boundaries are in the form of defined gardens with three tier planting comprised of groundcovers, shrubs (understorey), and trees (canopy) and provided with a drip irrigation system, mulching and border barriers.</p>	<p>N/A</p>

Performance outcomes	Assessment benchmarks	Assessment
<p><b>PO8</b> Plant species avoid adverse impacts on the natural and built environment, infrastructure and the safety of road networks.</p>	<p><b>AO8.1</b> Landscaping utilises plant species that are appropriate for the location and intended purpose of the landscaping.</p> <p>and</p> <p><b>AO8.2</b> Species selection avoids non-invasive plants.</p> <p>Editor's Note. Guidance on plant selection is provided in Branching Out - Your Handy Guide to tree Planting in the South Burnett available from Council.</p>	<p>N/A</p>
<b>Filling and excavation</b>		
<p><b>PO9</b> Development results in ground levels that retain:</p> <ul style="list-style-type: none"> <li>(a) access to natural light;</li> <li>(b) aesthetic amenity;</li> <li>(c) privacy; and</li> <li>(d) safety.</li> </ul>	<p><b>AO9.1</b> The depth of:</p> <ul style="list-style-type: none"> <li>(a) fill is less than 2m above ground level; or</li> <li>(b) excavation is less than 2m below ground level.</li> </ul> <p>and</p> <p><b>AO9.2</b> The toe of the fill, or top of the excavation is not less than 0.5m inside the site property boundary.</p> <p>and</p> <p><b>AO9.3</b> Works do not occur on slopes over 15% in grade.</p> <p>and</p> <p><b>AO9.4</b> Retaining walls over 1m in height are terraced 1.5m for every 1m in height and landscaped.</p> <p>and</p> <p><b>AO9.5</b> Batter slopes are not steeper than 25% and are grassed and terraced 1.5m for every 1m in height.</p> <p>and</p> <p><b>AO9.6</b> Filling or excavation for the purpose or retention of water:</p> <ul style="list-style-type: none"> <li>(a) is certified by an RPEQ engineer to safely withstand the hydraulic loading;</li> <li>(b) directs overflow such that no scour damage or nuisance occurs on adjoining lots.</li> </ul>	<p>N/A</p> <p>Roadwork is for widening of the existing formation.</p>
<p><b>PO10</b> Filling or excavation does not cause damage to public utilities.</p>	<p><b>AO10.1</b> Filling or excavation does not occur within 2m horizontally of any part of an underground water supply, sewerage, stormwater, electricity or telecommunications system.</p>	<p>Roadwork is for widening of the existing formation. Public Utilities have been identified with survey and considered in the design.</p>

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Performance outcomes	Assessment benchmarks	Assessment
<b>PO11</b> Filling and excavation avoids water ponding on the premises or nearby premises that will adversely impact on the health of the community.	<b>AO11.1</b> Following filling or excavation: (a) the premises: (i) are self-draining; and, (ii) has a minimum slope of 0.25%; and, (b) surface water flow is: (i) directed away from neighbouring properties; or (ii) discharged into a stormwater drainage system designed and constructed in accordance with AS3500 section 3.2.	N/A
<b>All operational work subject to an overlay</b>		
<b>Biodiversity overlay</b>		
<b>PO12</b> Development avoids, minimises or mitigates adverse impacts on areas of environmental significance.	<b>AO12.1</b> Uses and associated works are confined to areas not identified on Overlay Map 05.  or <b>AO12.2</b> Development is compatible with the environmental values of the area.  or <b>AO12.3</b> Where development within an area identified on Overlay Map 05 is unavoidable, measures recommended by a suitably qualified ecologist are incorporated to protect and retain the environmental values and underlying ecosystem processes within or adjacent to the development site to the greatest extent practical.	N/A
<b>PO13</b> Biodiversity values of identified areas of environmental significance are protected from the impacts of development	<b>AO13.1</b> Development adjacent to Protected Areas identified on Overlay Map 05 is set back a minimum of 100m from the park boundaries in the absence of any current 'Management Plans' for these areas.	N/A
<b>PO14</b> There are no significant adverse effects on water quality, ecological and biodiversity values.	<b>AO14.1</b> Uses and associated works are confined to areas outside overland flow paths and natural drainage features.  and <b>AO14.2</b> The Waterway Corridors identified on Overlay Map 05 are maintained in a natural state.	N/A



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Performance outcomes	Assessment benchmarks	Assessment
<b>Flood hazard overlay</b>		
<b>PO15</b> Development directly, indirectly and cumulatively avoids any significant increase in water flow, velocity or flood level, and does not increase the potential for flood damage either on site or other properties.	<b>AO15.1</b> Works associated with the proposed development do not: <ul style="list-style-type: none"> <li>(a) involve a net increase in filling greater than 50m<sup>3</sup> in the area identified on Overlay Map 03;</li> <li>(b) result in any reductions of on-site flood storage capacity and contain within the site any changes to depth / duration/velocity of flood waters; or</li> <li>(c) change flood characteristics outside the site in ways that result in: <ul style="list-style-type: none"> <li>(i) loss of flood storage;</li> <li>(ii) loss of/changes to flow paths;</li> <li>(iii) acceleration or retardation of flows; or</li> <li>(iv) any reduction in flood warning times.</li> </ul> </li> </ul>	N/A
<b>Regional infrastructure overlay</b>		
<b>PO16</b> Earthworks do not restrict access to and along major electricity infrastructure corridors by the electricity providers, using their normal vehicles and equipment.	<b>AO16.1</b> Earthworks do not alter levels along the boundaries of existing easements by more than 300mm and do not result in increased inundation of electricity infrastructure.	Site is not near any existing easements
<b>PO17</b> There is no worsening of drainage or erosion conditions affecting the bulk supply and linear infrastructure.	No outcome specified.	N/A
<b>Water catchments overlay</b>		
<b>PO18</b> There are no significant adverse effects on the water quality of the Region's drinking water supply.	<b>AO18.1</b> Development within the Bjelke-Petersen Dam Water Resource Catchment Area and the 800m buffer to Boondooma and Gordonbrook Dams shown on Overlay Map 06 has no significant adverse effect on the quantity and availability of raw water for consumption, as determined by a suitably qualified water quality expert. or <b>AO18.2</b> Development within the Cooyar Creek water supply buffer area shown on Overlay Map 06 complies with the specific outcomes and measures of the <i>Seqwater Development Guidelines: Development Guidelines for Water Quality Management in Drinking Water Catchments 2012</i> .	Site is not within a water supply catchment

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**4. CONSULTATION****Referral Agencies**

No referral agencies

**Council Referrals**

<i>INTERNAL REFERRAL SPECIALIST</i>	<i>REFERRAL / RESPONSE</i>
Development Engineer	Council's Development Engineer has carried out the assessment

**5. RECOMMENDATION**

The proposed development has been assessed against the requirements of the South Burnett Regional Council Planning Scheme 2017. It is considered that the proposed development generally complies with the requirements of the Planning Scheme and as such, the applicant should be provided with a Development Permit. The Development Permit should contain the conditions detailed in the Officer's Recommendation in order to ensure that the proposal complies with the South Burnett Regional Council Planning Scheme 2017.

**ATTACHMENTS**

- Attachment A - Approved Plans**

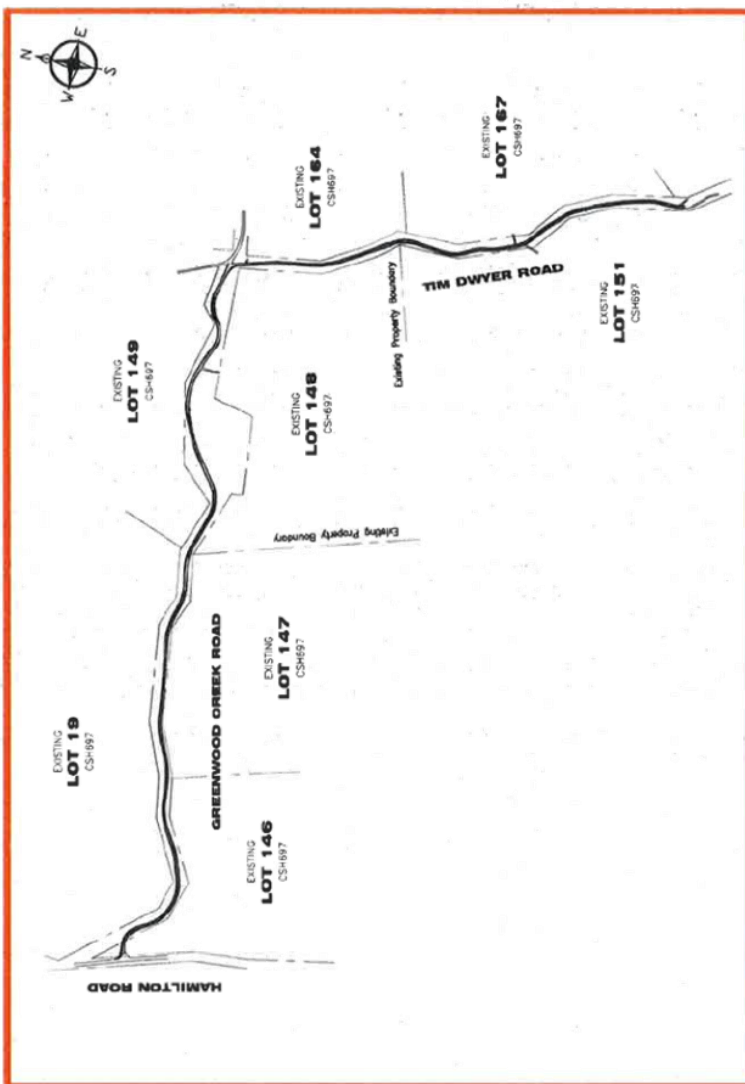
**PROPOSED QUARRY HAUL ROUTE UPGRADE  
GREENWOOD CREEK ROAD & TIM DWYER ROAD,  
EAST NANANGO FOR D CASSIDY & CO PTY LTD**

136 HERRIES STREET  
PO BOX 1382  
TODDWOOLMHA,  
QLD 4350  
PH.: 07 4636 5955  
EMAIL: mail@bakerossov.com.au



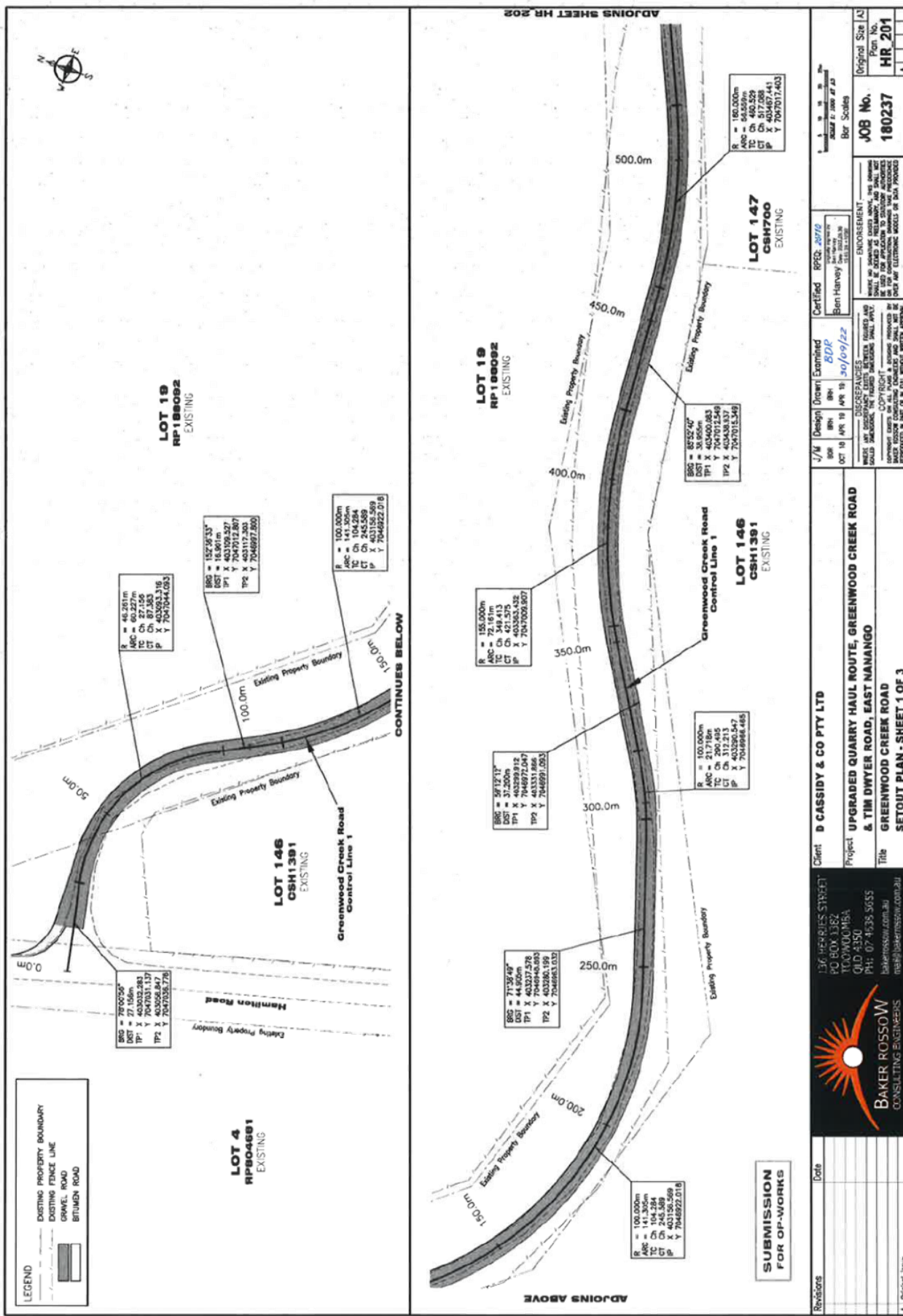
**BRCE NO. 180237 DRAWING LIST**

PROJECT NO.	SHEET	REV	TITLE
180237	HR_101	A	ROAD TYPICAL CROSS SECTION AND DETAILS
180237	HR_201	A	GREENWOOD CREEK ROAD SETOUT PLAN - SHEET 1 OF 3
180237	HR_202	A	GREENWOOD CREEK ROAD SETOUT PLAN - SHEET 2 OF 3
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**Client:** D CASSIDY & CO PTY LTD

**Project:** UPGRADED QUARRY HAUL ROUTE, GREENWOOD CREEK ROAD & TIM DYER ROAD, EAST NANANGO

**Title:** GREENWOOD CREEK ROAD SETOUT PLAN - SHEET 1 OF 3

**137 HERRIS STREET  
 4000 NANANGO  
 QLD 4400  
 PH: 07-4535-3635  
 bakerross.com.au  
 mail@bakerross.com.au**

**BAKER ROSSO**  
 CONSULTING ENGINEERS

**Revisions**

Revisions	Date

**Design Drawn Examined**  
 J/M BRH BRH BDR  
 10/19 APR 19 19/09/22

**Certified RPQD 287/2**  
 Sun Harvey  
 10/19 APR 19 19/09/22

**ENDORSEMENT**  
 THIS PLAN IS FOR INFORMATION ONLY AND SHALL BE USED FOR APPLICATION TO LOCAL GOVERNMENT ONLY. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR THE ACCURACY OF THE DATA PROVIDED OR FOR THE RESULTS OF ANY ELECTRONIC MODELS OR DATA PROVIDED.

**JOB No. 180237**  
**Original Size A1**  
**Plan No. HR 201**

**SUBMISSION FOR OP-WORKS**





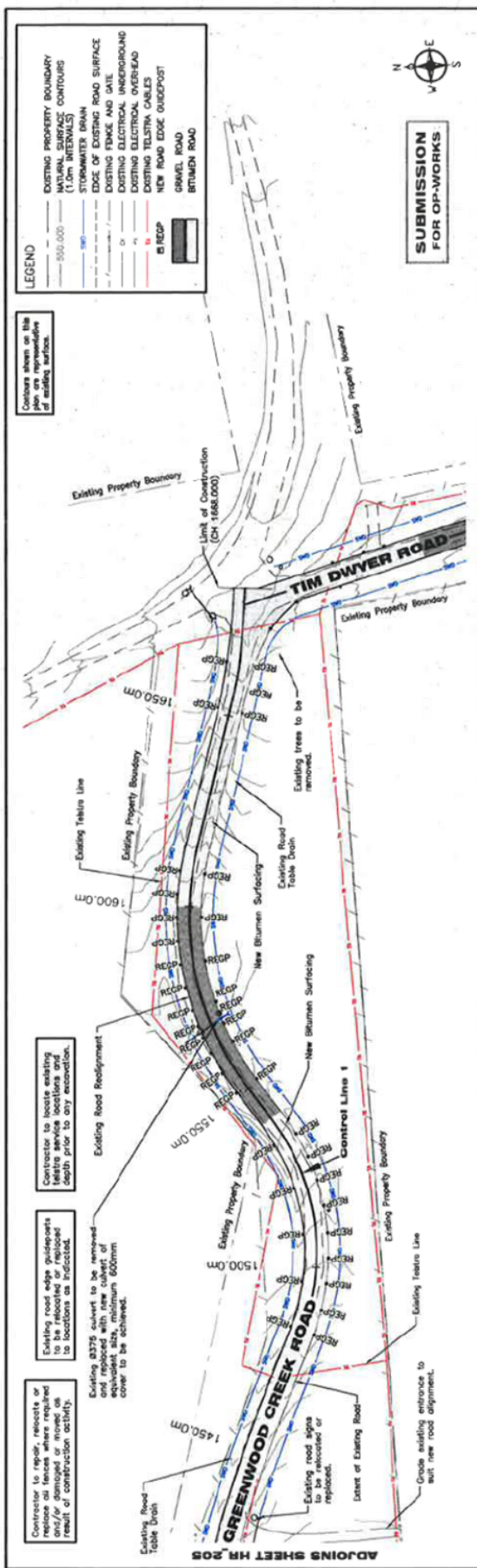












**GENERAL NOTES:**

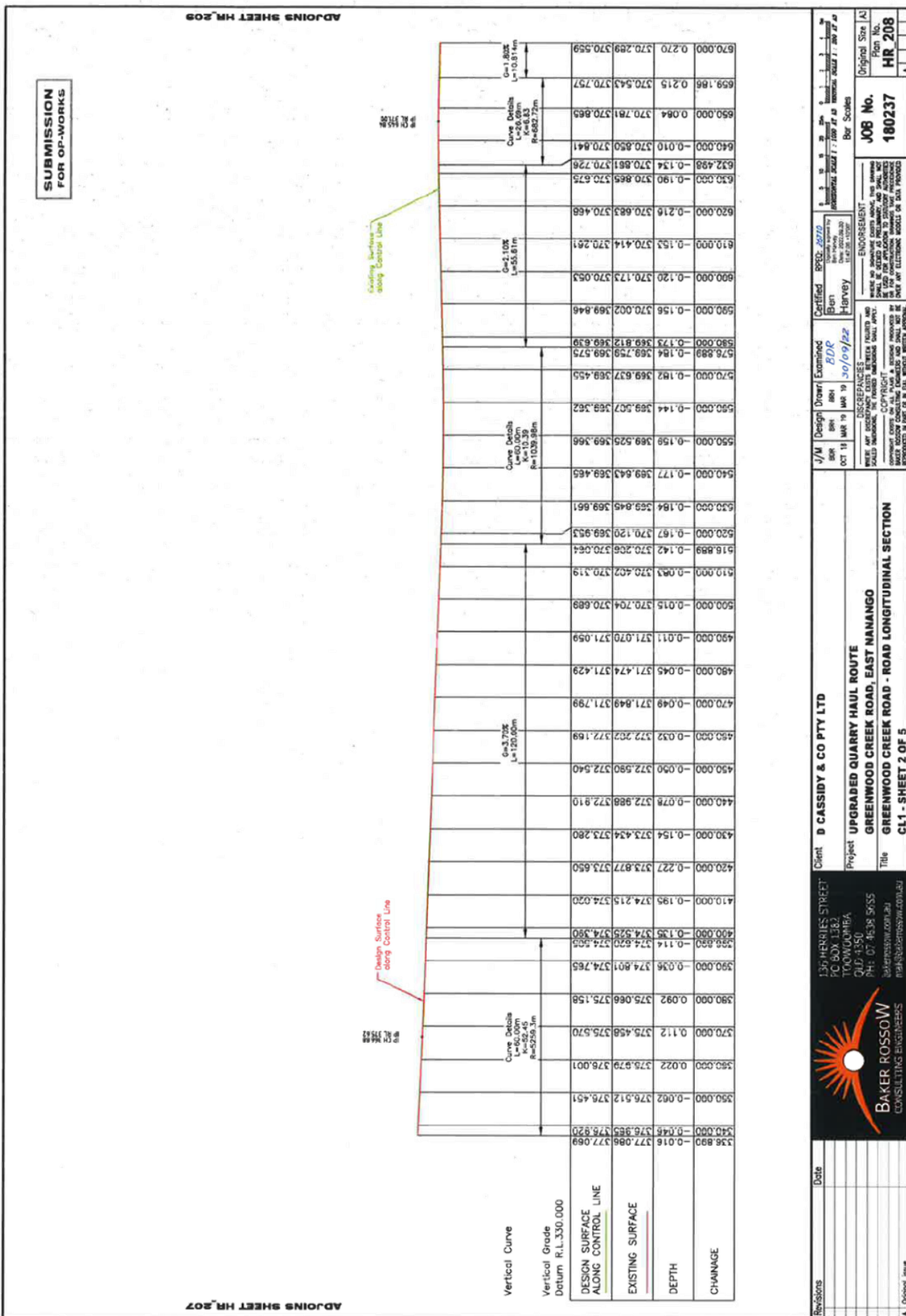
1. ALL DIMENSIONS ON THE DRAWINGS ARE IN METRES UNLESS SHOWN OTHERWISE.
2. ALL TURNOUT ROAD ARE TO THE EDGE OF CONCRETE. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL RELEVANT STANDARDS AND STANDARD DRAWINGS UNLESS DIRECTED OTHERWISE.
3. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE COMMENCING WORK. ANY DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL ERECT TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE STANDARD DRAWINGS.
5. SUB-BASE GRANUL COMPACTED AS PER SPECIFICATION.
6. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE THE COMMENCEMENT OF CONSTRUCTION.
7. UNDESIRABLE MATERIALS SHALL BE REMOVED FROM THE SITE ABOVE A DEPTH OF 100mm. ALL SUBGRADE SHALL BE FREE FROM CONTAMINANTS WITH ANY DIMENSION GREATER THAN 60mm.
8. ACCESS TO EXISTING PROPERTIES TO BE MAINTAINED AT ALL TIMES. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITH NOTICE OF CONSTRUCTION ACTIVITIES THAT MAY IMPACT UPON.
9. EXISTING PROPERTY ACCESSES TO BE RECONSTRUCTED TO SUIT NEW ROAD ALIGNMENT.
10. ALL CONSTRUCTION ACTIVITIES TO BE OBTAINED AND PROTECTED WHERE PRACTICABLE AND ARE ONLY TO BE REMOVED WHERE AGREED UPON BETWEEN THE DEVELOPER AND THE CONTRACTOR.

<p>136 HERBERT STREET PO BOX 1382 TOOWOOMBA QLD 4350 PH: 07 4638 8655 bakerrossow.com.au info@bakerrossow.com.au</p> <p><b>BAKER ROSSOW</b> CONSULTING ENGINEERS</p>		<p>Client: <b>D CASSIDY &amp; CO PTY LTD</b></p> <p>Project: <b>UPGRADED QUARRY HAUL ROUTE, GREENWOOD CREEK ROAD &amp; TIM DWYER ROAD, EAST MANANGO</b></p> <p>Title: <b>GREENWOOD CREEK ROAD DETAILED LAYOUT PLAN - SHEET 3 OF 3</b></p>	<p>J/M Design Drawn: Examined BKH BKH BJR BJR OCT 18 193 19 196 19 30/09/22</p> <p>Certified: RPS2: 2870 Ben Harvey</p> <p>ENDORSEMENT: THIS DRAWING IS TO BE USED FOR THE PROJECT DESCRIBED ONLY. ANY OTHER USE OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF BAKER ROSSOW CONSULTING ENGINEERS IS PROHIBITED.</p>	<p>Job No. <b>180237</b></p> <p>Original Size (A) Plot No. <b>HR_206</b></p>
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Version: 1, Version Date: 21/03/2023

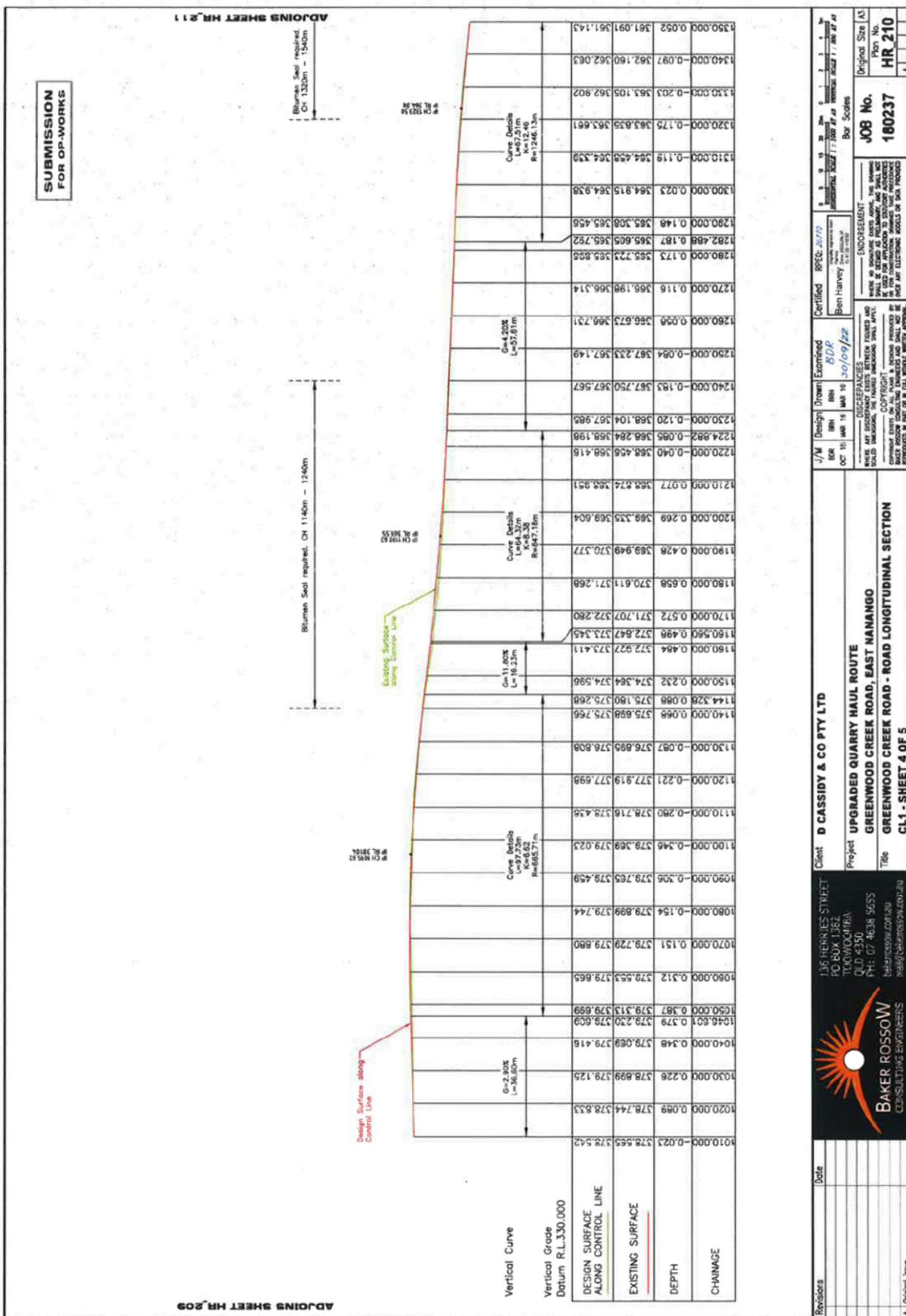












Revisors: \_\_\_\_\_ Date: \_\_\_\_\_  
 Document Set ID: 3014813  
 Version: 1, Version Date: 21/03/2023

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 email@bakerrussow.com.au

Client: **D CASSIDY & CO PTY LTD**  
 Project: **UPGRADED QUARRY HAUL ROUTE  
 GREENWOOD CREEK ROAD, EAST HANANGO**  
 Title: **GREENWOOD CREEK ROAD - ROAD LONGITUDINAL SECTION  
 CL1 - SHEET 4 OF 5**

J/M Design Drawn Examined Certified RPEC 28779  
 BRH BRH BRH Ben Harvey  
 Date: 30/09/22  
 ENDORSEMENT: THE ENGINEER MAKES NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DOCUMENT AND SHALL NOT BE HELD RESPONSIBLE FOR ANY CONSEQUENCES ARISING FROM THE USE OF ANY ELECTRONIC COPIES OF THIS DOCUMENT.

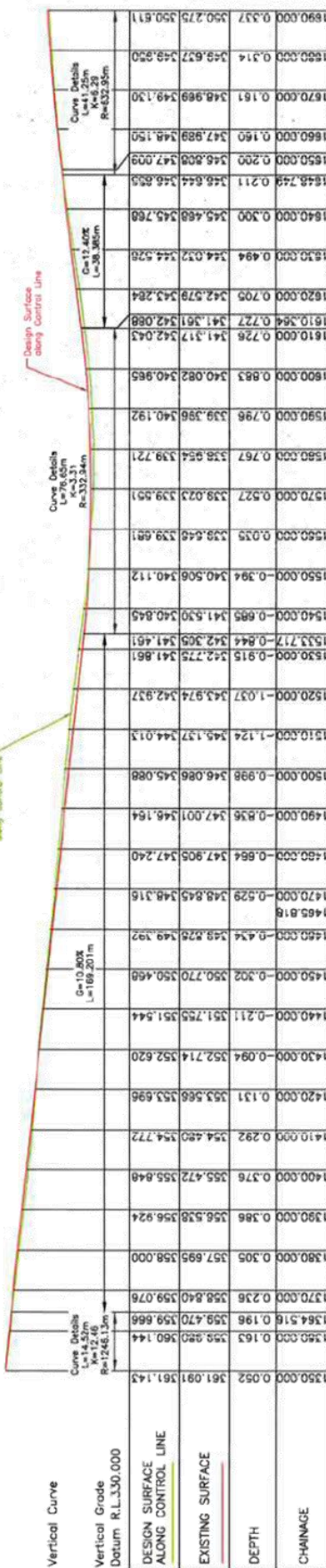
Job No. **180237**  
 Original Size (A) **HR 210**

**SUBMISSION FOR OP-WORKS**

SUBMISSION FOR OP-WORKS

Bitumen Seal required. Ch 1320m - 1540m

ADJOINING SHEET HR 210



Vertical Curve	Vertical Grade	Datum R.L.330.000	DESIGN SURFACE ALONG CONTROL LINE	EXISTING SURFACE	DEPTH	CHAINAGE
			1350.000	0.052	361.091	361.143
			1350.000	0.163	359.950	360.144
			1354.516	0.196	359.470	359.666
			1370.000	0.236	358.840	359.076
			1380.000	0.305	357.695	358.000
			1390.000	0.386	356.538	356.924
			1400.000	0.376	355.472	355.848
			1410.000	0.292	354.480	354.772
			1420.000	0.131	353.566	353.696
			1430.000	-0.094	352.714	352.620
			1440.000	-0.211	351.755	351.544
			1450.000	-0.302	350.770	350.468
			1460.000	-0.434	349.826	349.392
			1470.000	-0.529	348.845	348.316
			1480.000	-0.664	347.905	347.240
			1490.000	-0.836	347.001	346.164
			1500.000	-0.998	346.086	345.088
			1510.000	-1.124	345.137	344.013
			1520.000	-1.037	343.974	342.937
			1530.000	-0.915	342.729	341.861
			1533.717	-0.844	342.305	341.481
			1540.000	-0.685	341.530	340.845
			1550.000	-0.394	340.506	340.112
			1560.000	0.039	339.644	339.681
			1570.000	0.527	338.023	339.501
			1580.000	0.767	336.954	339.721
			1590.000	0.796	339.396	340.192
			1600.000	0.863	340.082	340.965
			1610.000	0.726	341.317	342.043
			1610.364	0.727	341.361	342.068
			1620.000	0.705	342.579	343.284
			1630.000	0.694	344.032	344.528
			1640.000	0.300	345.468	345.768
			1650.000	0.200	346.808	347.009
			1660.000	0.160	347.989	348.150
			1670.000	0.161	348.969	349.130
			1680.000	0.314	349.627	349.920
			1690.000	0.327	350.275	350.611

**Client** D CASSIDY & CO PTY LTD


**Project** UPGRADED QUARRY HAUL ROUTE  
GREENWOOD CREEK ROAD, EAST NANANGO

**Title** GREENWOOD CREEK ROAD - ROAD LONGITUDINAL SECTION  
CL1 - SHEET 5 OF 5

**J/W** Design Drawn Examined  
BRH BRH BRH  
OCT 18 MAR 19 MAR 19 30/09/22

**Certified** RPTC 20710  
Ben Harvey  
PROFESSIONAL SEAL: 1200 87 88

**Job No.** 180237  
**Plan No.** HR 211



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**Revisions**

No.	Date	Description

Document Set ID: 3014813  
Version: 1, Version Date: 21/03/2023











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Revisions

No.	Description	Date

Bar Scales

Bar	Scale

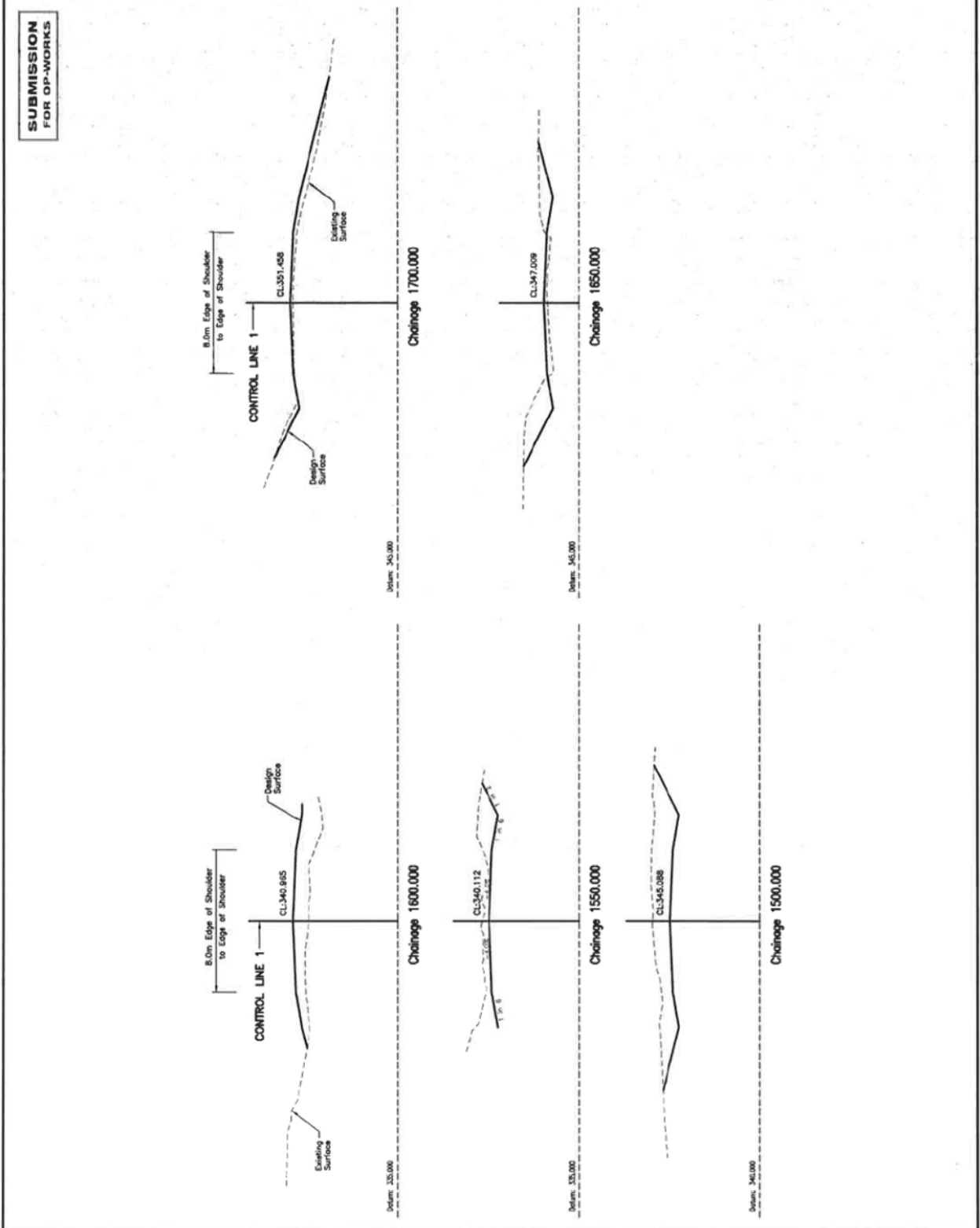
A. Original Issue  
Client  
**D CASSIDY & CO PTY LTD**

Project  
**UPGRADED QUARRY HAUL ROUTE, EAST NANANGO**

Title  
**ROAD CROSS SECTION 4 GREENWOOD CREEK ROAD**

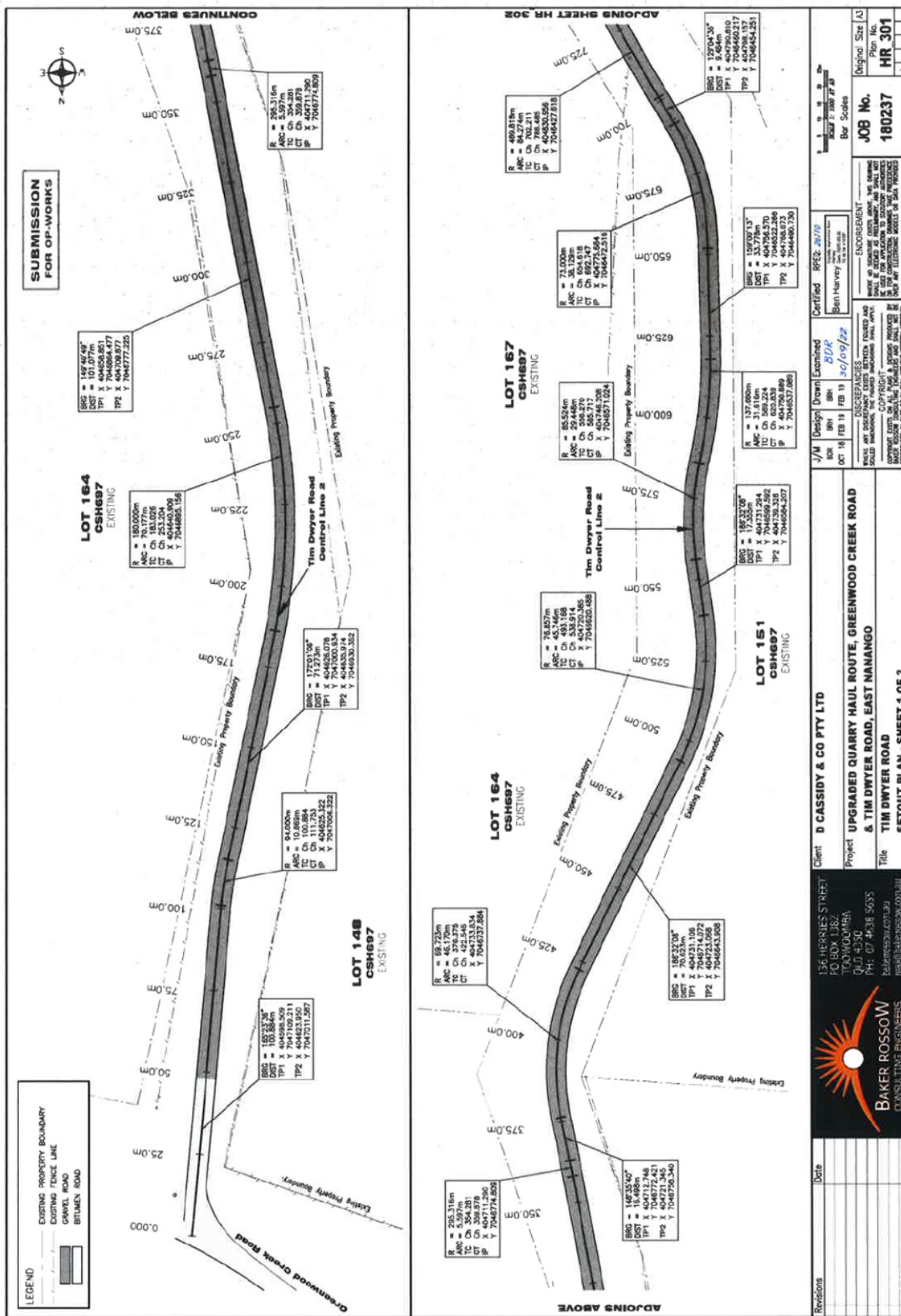
J/M	Design	Drawn	Examined
2022	BRN	BRN	BDR
2022	APR 19	APR 19	30/09/22

Scale  
1:200  
Certified  
Bren Harvey  
Original Size  
A3  
Plan No.  
**HR 215**  
JOB No.  
**180237**



Document Set ID: 3014813  
Version: 1, Version Date: 21/03/2023





**SUBMISSION FOR OP-WORKS**

**LEGEND**  
 - - - EXISTING PROPERTY BOUNDARY  
 - - - EXISTING FENCE LINE  
 ▬ GRAVEL ROAD  
 ▬ BITUMEN ROAD

**J/M Design Drawn Examined**  
 BUR BH BHJ BUR  
 OCT 18 FEB 19 FEB 19 30/09/22  
 Certified: REFC: 26/19  
 Stan Harvey  
 Bar Scores

**JOB No. 180237**  
**Original Size A3**  
**HR 301**

**ENDORSEMENT**  
 SHALL BE SIGNED BY THE ENGINEER, THE CLIENT AND THE LOCAL AUTHORITY. THIS ENDORSEMENT IS VALID FOR THE CONSTRUCTION PERIOD ONLY. THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS PLAN. THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS PLAN.

**Client: D CASSIDY & CO PTY LTD**  
**Project: UPGRADED QUARRY HAUL ROUTE, GREENWOOD CREEK ROAD & TIM DWYER ROAD, EAST NANANGO**  
**Title: SETOUT PLAN - SHEET 1 OF 2**

**156 HERMES STREET**  
**PO BOX 1182**  
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**QLD 4350**  
**PH: 07 4638 5695**  
**business@bakerrossow.com.au**  
**info@bakerrossow.com.au**

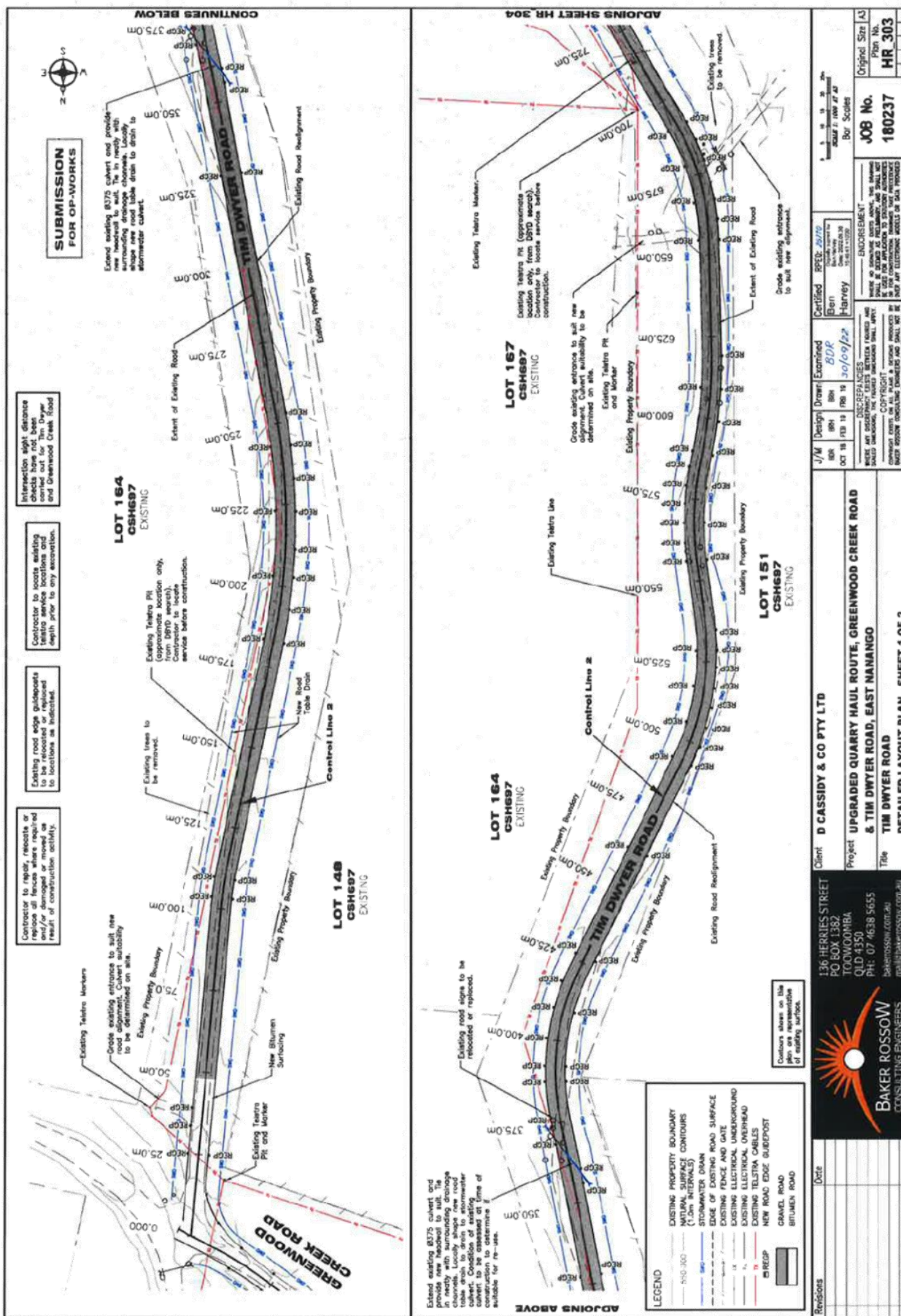


**BAKER ROSSOW**  
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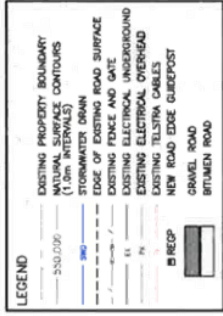
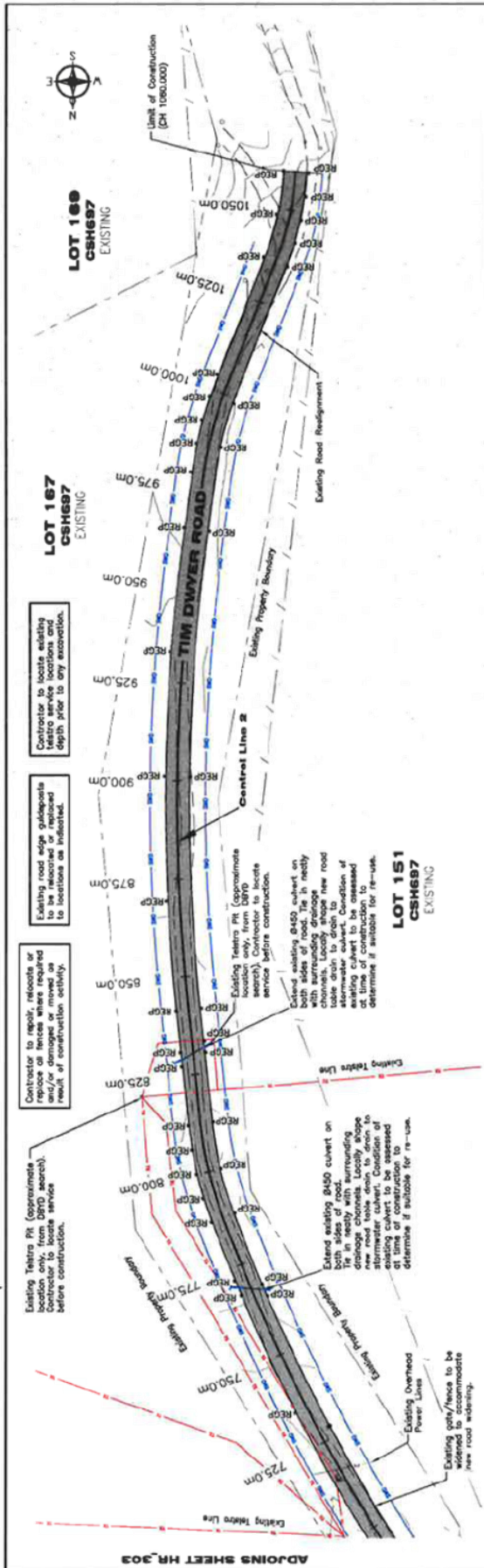
Revisions	Date

Document Set ID: 3014813  
 Version: 1, Version Date: 21/03/2023









**GENERAL NOTES:**

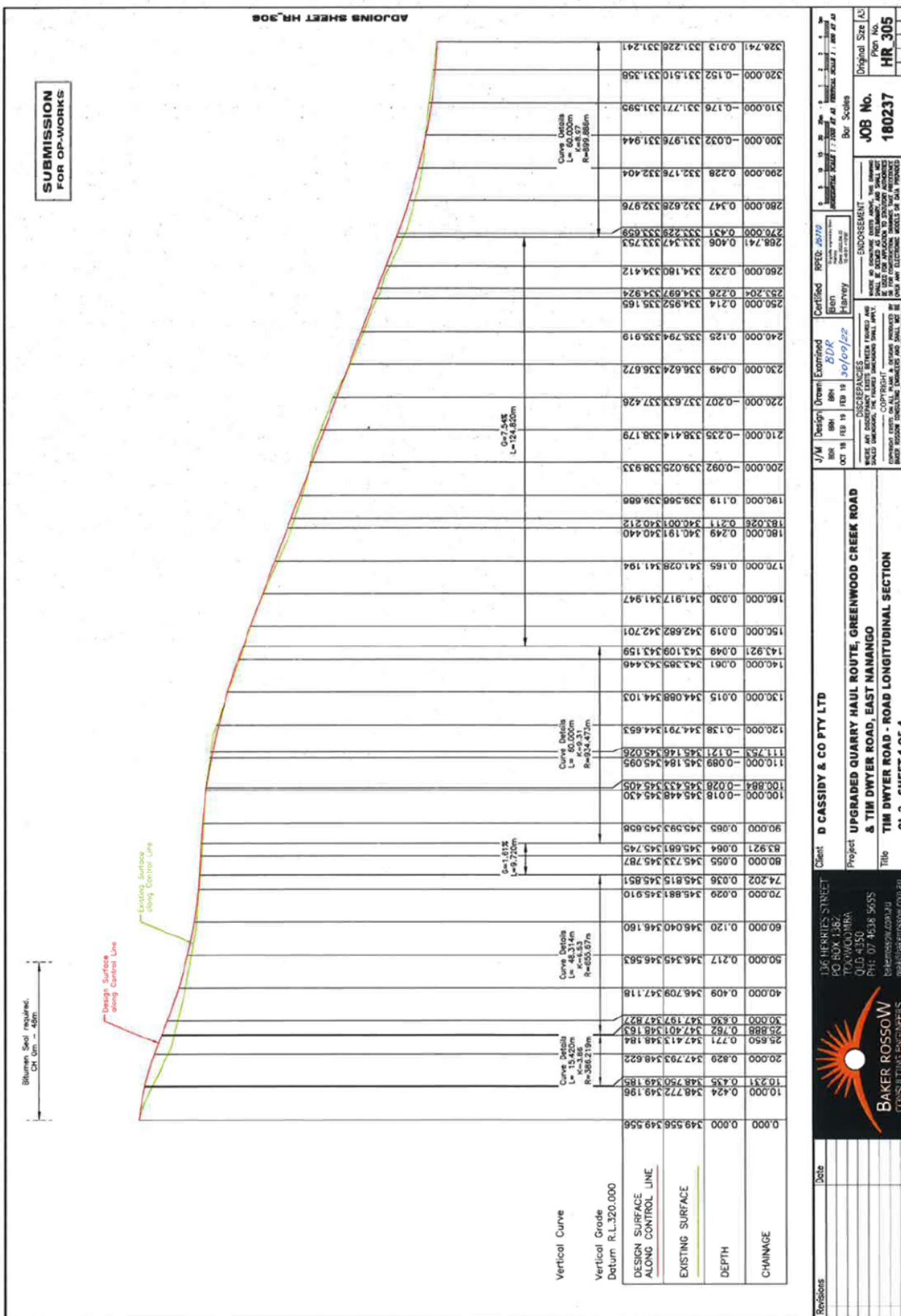
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2. ALL TURNOUT RADI ARE TO THE EDGE OF CONCRETE.
3. ALL TURNOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT COUNCIL STANDARDS AND STANDARD DRAWINGS UNLESS DIRECTED OTHERWISE.
4. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL DIRECT TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH STANDARD DRAWINGS.
6. SUB-BASE GRAVEL COMPACTED AS PER SPECIFICATION.
7. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE THE COMMENCEMENT OF CONSTRUCTION.
8. DRAINAGE MATERIAL PLACED WITHIN THE DRIVE ABOVE A CURB SHALL BE COMPACTED TO A MINIMUM OF 60mm AND CONTAIN ROCK PARTICLES WITH ANY DIMENSION GREATER THAN 60mm.
9. ACCESS TO EXISTING PROPERTIES TO BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL ADVISE THE SUPERINTENDENT OF ANY NOTICE OF CONSTRUCTION ACTIVITIES THAT MAY IMPACT HERE UPON.
10. EXISTING PROPERTY ACCESSES TO BE RECONSTRUCTED TO SUIT NEW ROAD DIMENSIONS.
11. EXISTING ROAD DIMENSIONS SHALL BE RETAINED AND PROTECTED WHERE PRACTICABLE AND ARE ONLY TO BE REMOVED WHERE AGREED UPON BETWEEN THE DEVELOPER AND THE CONTRACTOR.

**FAVEMENT**  
THE FINAL ROAD PAVEMENT ADOPTED WILL BE DETERMINED BY THE SUPERINTENDENT OF ROADS. THE ROAD PAVEMENT DESIGN IS BASED ON NOMINAL THICKNESS CUR TESTING TO BE CARRIED OUT AND CONFIRMED WITH ENGINEER'S PAVEMENT DESIGN.

**TOPSOIL**  
TOPSOIL ON ROADWORK AREAS SHALL BE STRIPPED AND STOCKPILED PRIOR TO THE COMMENCEMENT OF ANY ROADWORK OPERATIONS. A TOPSOIL DEPTH OF 100mm, HAS BEEN USED TO DETERMINE TOPSOIL AND EARTHWORK QUANTITIES.

**SUBMISSION FOR OP-WORKS**

Client	D CASSIDY & CO PTY LTD	
Project	UPGRADED QUARRY HAUL ROUTE, GREENWOOD CREEK ROAD & TIM DWYER ROAD, EAST NANANGO	
Title	TIM DWYER ROAD DETAILED LAYOUT PLAN - SHEET 2 OF 2	
Revisions	Date	
1. Original Issue		
136 HERVIES STREET PO BOX 1387 TOOWOOMBA QLD 4350/NSW PH: 07 4638 3655 bakermoss.com.au mail@bakermoss.com.au	Certified RPEC: 2019 Brian Harvey Examined BDR 30/09/22 Design Down BDR 19 FEB 19 30/09/22	
JOB No. 180237 Original Size A3 Plan No. HR 304		ENGAGEMENT THIS DRAWING IS THE PROPERTY OF BAKER ROSSOW CONSULTING ENGINEERS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE COVER SHEET. IT IS NOT TO BE REPRODUCED, COPIED, EITHER WHOLLY OR IN PART, OR IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF BAKER ROSSOW CONSULTING ENGINEERS.



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**Client:** D CASSIDY & CO PTY LTD  
**Project:** UPGRADED QUARRY HAUL ROUTE, GREENWOOD CREEK ROAD & TIM DWYER ROAD, EAST NANANGO  
**Title:** TIM DWYER ROAD - ROAD LONGITUDINAL SECTION  
CL 2 - SHEET 1 OF 4

**Job No. 180237**  
**Original Size (A)**  
**Plot No. HR 305**

**Revisions**

Date	Revisions

**Scale:** 1:100  
**Bar Scales:** 1:100  
**Vertical Scale:** 1:100  
**Horizontal Scale:** 1:100

**Design:** BDR  
**Drawn:** BDR  
**Examined:** BDR  
**Checked:** BDR  
**Approved:** BDR

**DATE:** 30/09/22  
**BY:** BDR

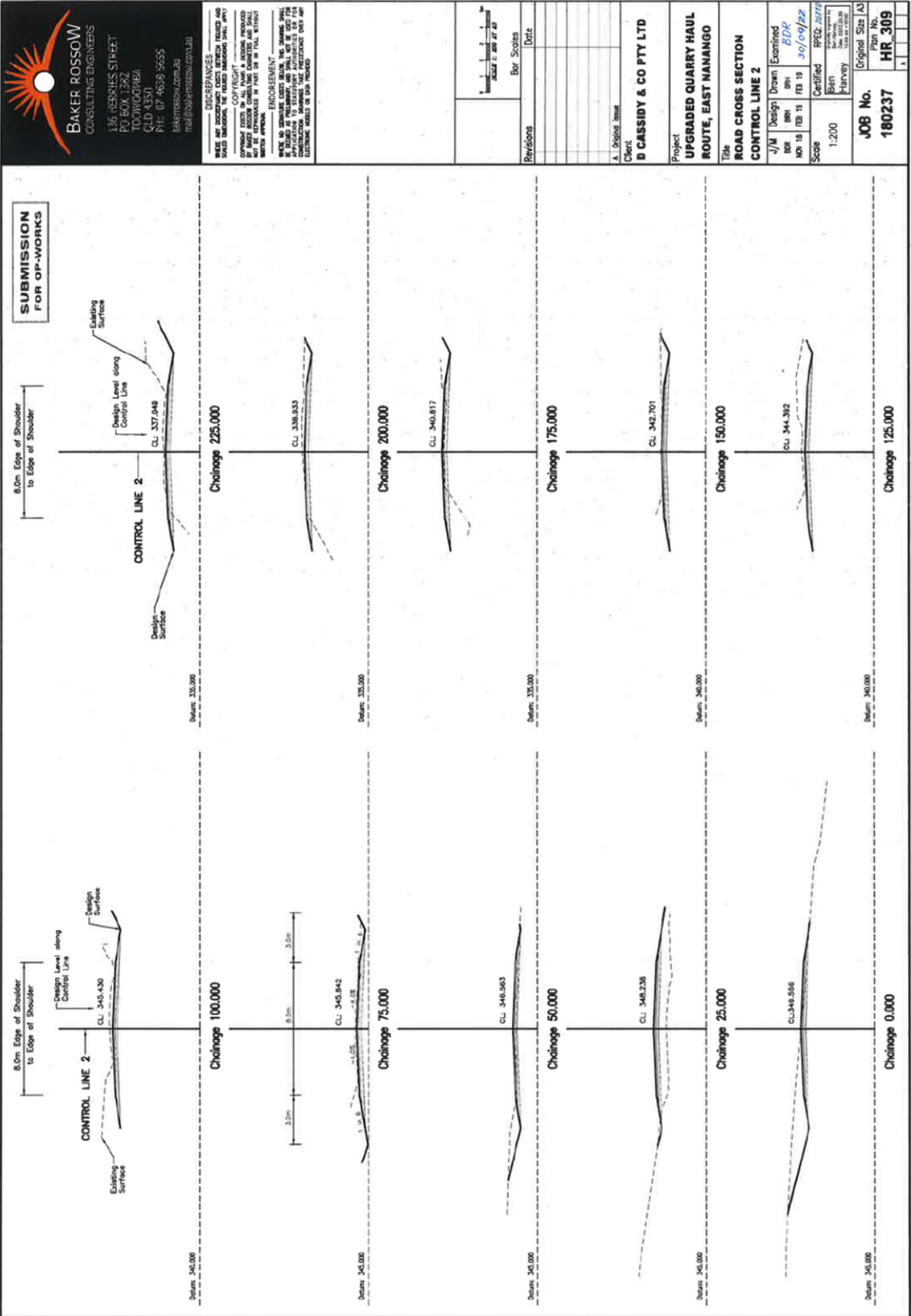
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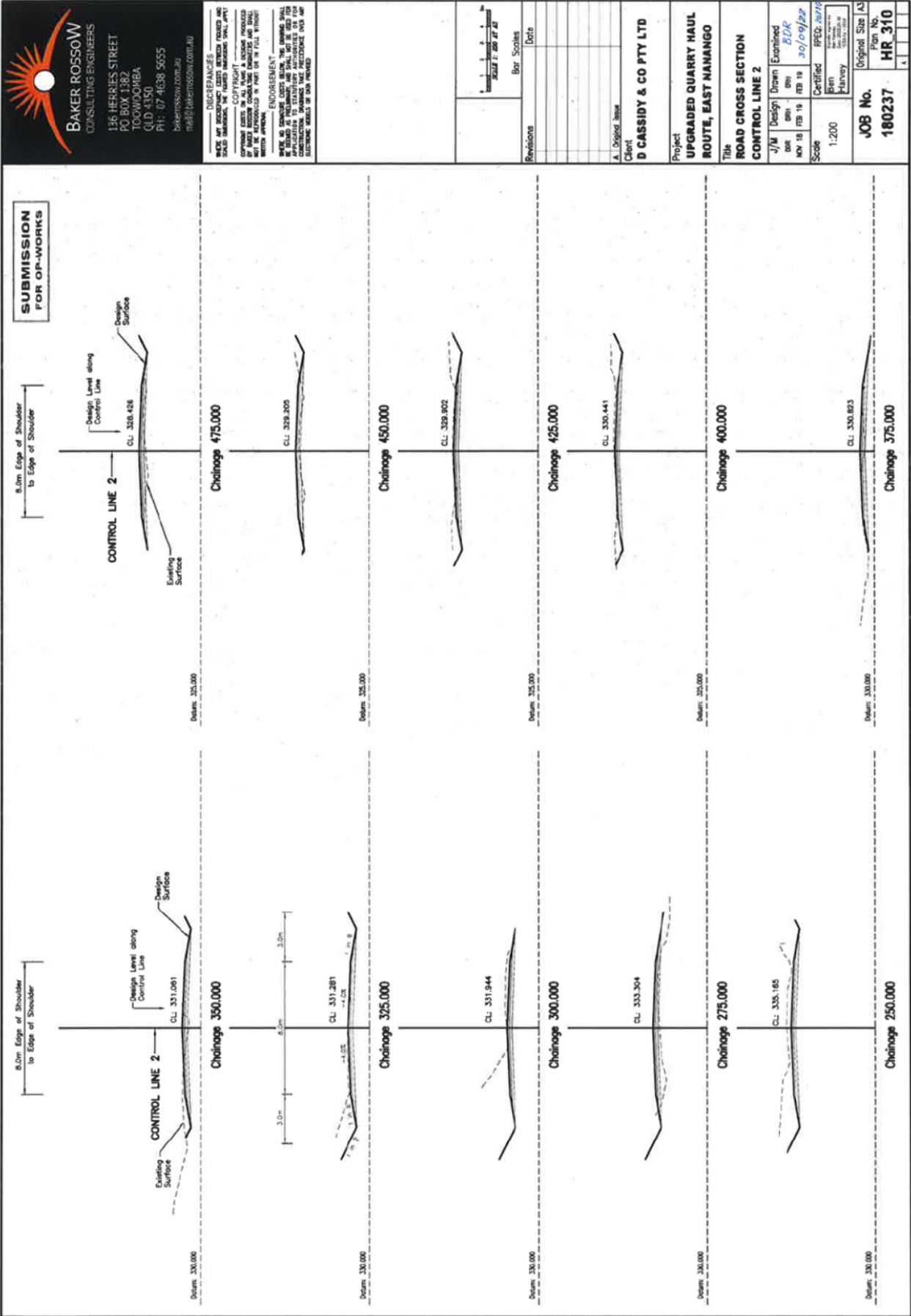






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Version: 1, Version Date: 21/03/2023

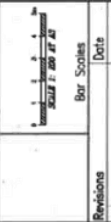




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ENDORSEMENT  
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Client  
**D CASSIDY & CO PTY LTD**

Project  
**UPGRADED QUARRY HAUL ROUTE, EAST NANANGO**

Title  
**ROAD CROSS SECTION CONTROL LINE 2**

Scale  
1:200

Drawn  
Harvey

Checked  
Harvey

Approved  
Harvey

Original Size (A3)  
Plan No.  
**HR\_310**

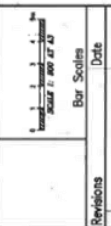


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Revisions

No.	Description	Date



Client  
**D CASSIDY & CO PTY LTD**

Project  
**UPGRADED QUARRY HAUL ROUTE, EAST NARANGO**

Title  
**ROAD CROSS SECTION CONTROL LINE 2**

J/M	Design	Drawn	Examined
06	BNH	BNH	EDR
NOV 19	FEB 19	FEB 19	30/09/22

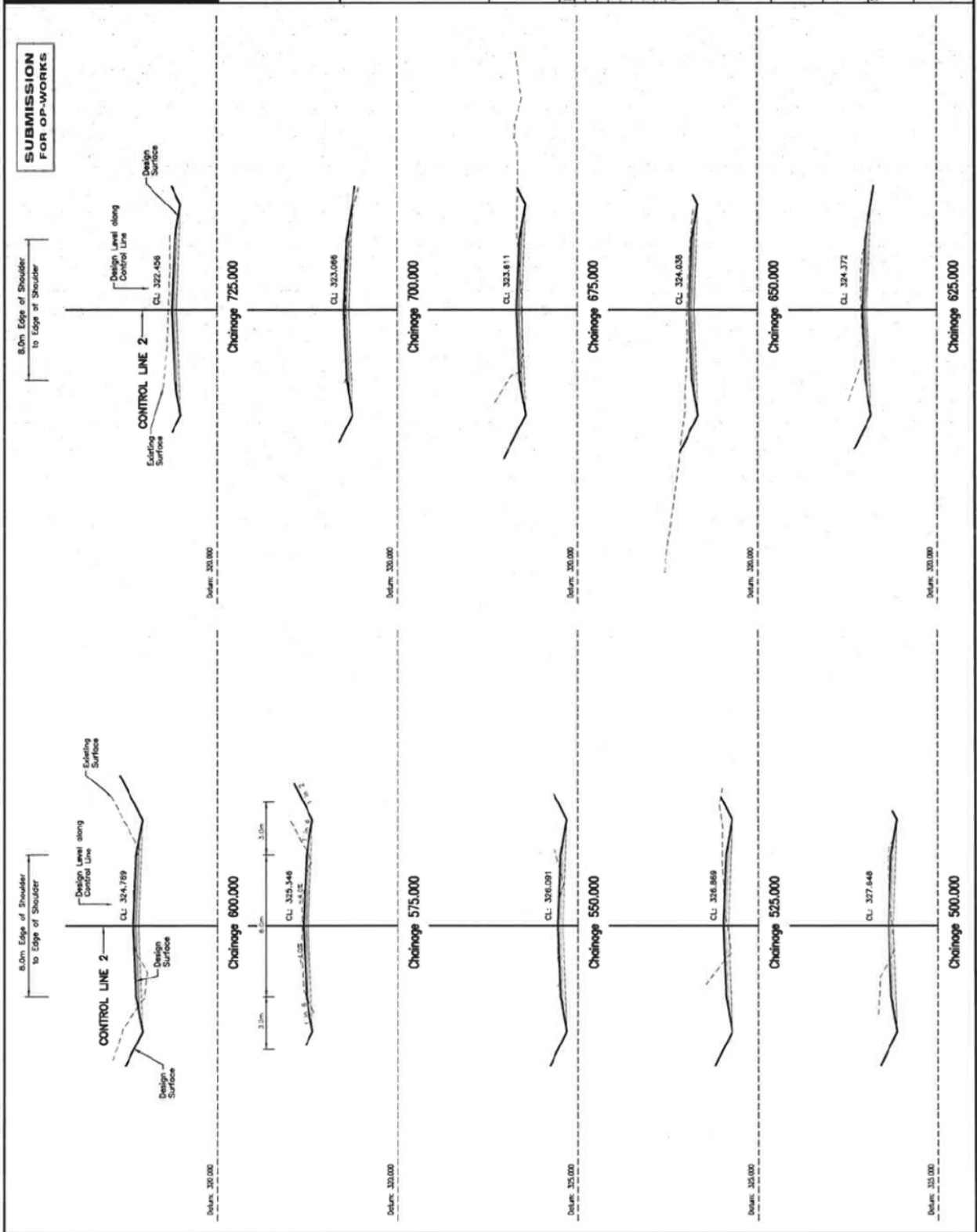
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Certified  
Ben Harvey  
REC: 2712

Job No.  
**180237**

Original Size  
**A3**

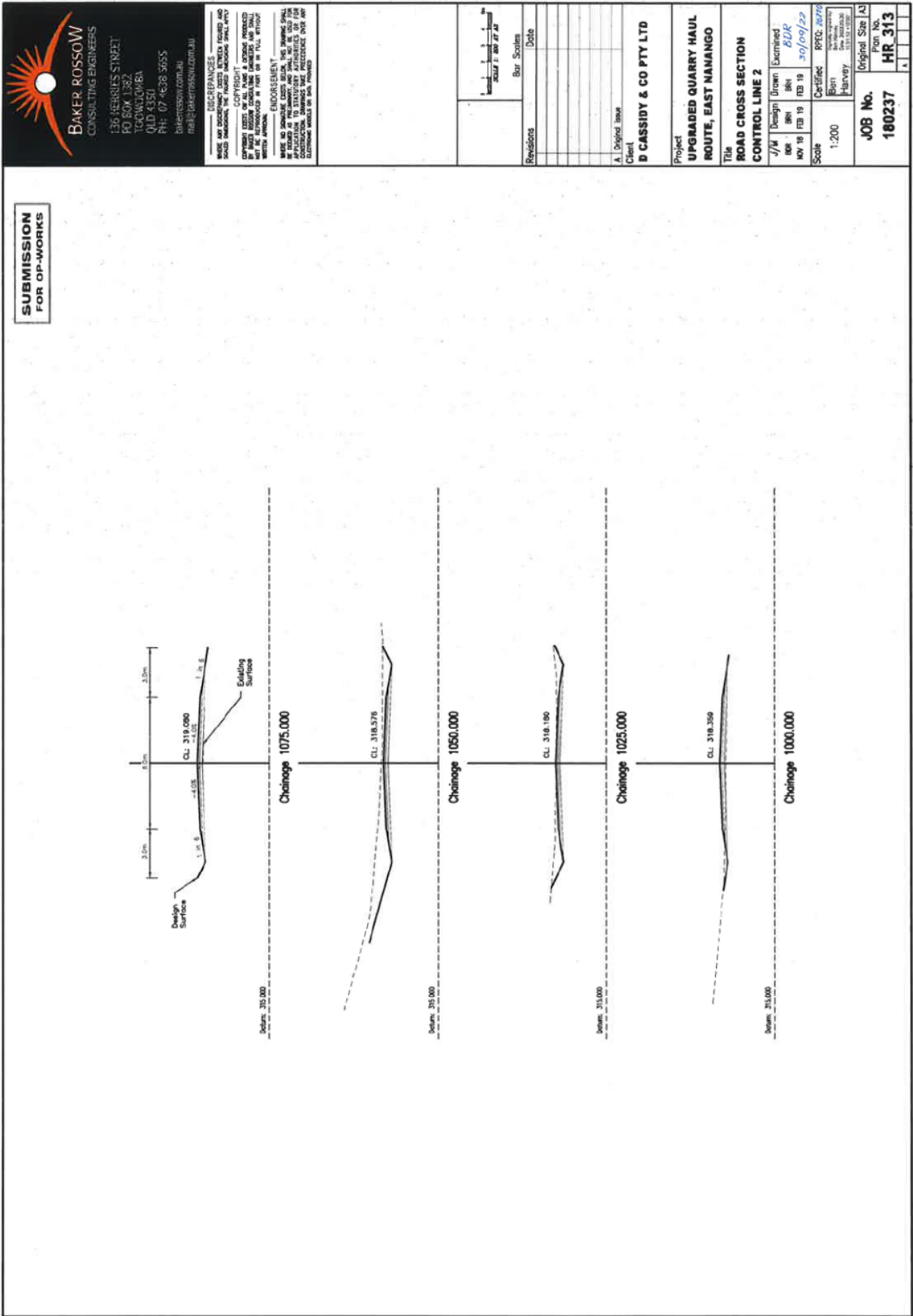
Plan No.  
**HR 311**



Document Set ID: 3014613  
Version: 1, Version Date: 21/03/2023







Document Set ID: 3014813  
 Version: 1, Version Date: 21/03/2023

