

Your Ref

In reply please quote
LUC0402/14

If calling, please ask for
Kathryn Drew – Bloxam Burnett & Olliver



18 November 2014

Puke Coal Consulting Ltd
90 Hillsborough Road
Hillsborough
Auckland 1042

Postal Address

Private Bag 544
Ngaruawahia, 3742
New Zealand

0800 492 452
www.waikatodistrict.govt.nz

Dear Sir/Madam

APPLICATION BY PUKE COAL LIMITED FOR LAND USE CONSENT FOR STABILIZATION EARTHWORKS TO EXISTING HIGHWALLS AT 74 PUKEMIRO MINE ROAD PUKEMIRO

You are advised that your application has now been determined and has been granted. Please find enclosed a copy of the Decision and the Consent.

A Lapsing of Consents

Your attention is drawn to section 125 of the Resource Management Act 1991. A summary of that section is that a resource consent lapses on the expiry of five years after the date of commencement of the consent, or after the expiry of such shorter or longer period as is expressly provided for in the consent, unless

- (a) The consent is given effect to, before the end of that period; or
- (b) An application which meets the criteria specified in section 125 is made to the Council.

B Compliance with Conditions

Please note that unless a specific time limit is stated in the conditions imposed by the Council when granting this consent, all conditions must be complied with before the use to which the consent relates is established.

C Changes to Conditions

Your attention is drawn to section 127 of the Resource Management Act 1991 which enables an application to be made at any time to Council to change or cancel any condition of this consent. Any such application should be accompanied by a deposit of \$1,300.00 for Land Use and Subdivision consents

D Review of Decision on non-notified application

Your attention is drawn to section 357 of the Resource Management Act 1991. This section provides that there is a right of objection to Council in respect of this decision. Section 357(5) requires:

Any such objection shall be made by notice in writing to the Council, setting out the reasons for the objection and should be accompanied by a deposit of \$1,300.00. This objection should be made within 15 working days after the decision or requirement being notified to that person, or within such further time as may in any case be allowed by the consent of the Council.

E Right of Appeal

Your attention is drawn to the Resource Management Act 1991 sections 120 and 121 and also the Resource Management (Forms, Fees, and Procedure) Regulations 2003/153, Regulations 16 – 19. Some key provisions to note are as follows:

- (i) You may appeal against the decision of the Council by lodging a Notice of Appeal in the prescribed form with the Registrar of the Environment Court and with the Council within 15 working days of the receipt by you, or the person who filed the application on your behalf, of the Council's decision. The address of the Environment Court is as follows:

The Registrar
Environment Court
P O Box 7147
Wellesley Street
AUCKLAND

Specialist Court and Tribunal Centre
Level 2
41 Federal Street (Cnr Wyndham and Federal Streets)
AUCKLAND CITY
Telephone: 09 916 9091
Fax: 09 916 9090

- (ii) The appeal must be in the form prescribed by the Resource Management (Forms, Fees, and Procedure) Regulations 2003/153 or to like effect. The regulations may be purchased from Bennetts Government Bookshop, or they (and the RMA itself) are accessible on-line at www.legislation.govt.nz. The form is identified as Form 34 in the regulations.
- (iii) A filing fee of \$511.11 GST inclusive must accompany every document by which appeal proceedings are commenced.
- (iv) Section 121 of the Resource Management Act 1991 sets out important information as to the persons upon whom the appeal must be served and the time when service must take place. It is essential that these provisions be adhered to. Failure to do so may result in your appeal being struck out.

If you are in any doubt as to the procedures to be followed it is strongly recommended that you consult a lawyer.

Yours faithfully



Beryl McCauley
CONSENTS ADMINISTRATION

Cc: Puke Coal Limited
CMB C5
RD 1
Huntly 3771

Resource Consent

(Resource Management Act 1991)



www.waikatodistrict.govt.nz

DECISION ON APPLICATION: LUC0402/14

Pursuant to Sections 34A(1), Section 104, 104B, and 108 of the Resource Management Act 1991, the Waikato District Council, under delegated authority, grants Land Use Consent for a Discretionary Activity to:

Activity: Undertake 835,000m³ earthworks across 16.7 hectares for the purpose of stabilising two existing highwalls

Applicant: Puke Coal Limited

Location Address: 1158 Rotowaro Road, Glen Afton

Legal Description: Lots 2 - 4 DPS 12774 comprised in CFR 437691
Lot 1 DPS 4520 comprised in CFR 437689
Pt Lot 6 DP 10864 comprised in CFR 437695
Lot 6 DP 427961 comprised in CFR 510520
Lot 5 DP 427961 comprised in CFR 510519

This consent is subject to the conditions detailed in the attached Schedule 1.

The reasons for this decision are detailed in the attached Schedule 2.

A handwritten signature in blue ink, consisting of a large, stylized 'C' followed by a horizontal line.

CONSENTS TEAM LEADER

Dated:

17/11/14

Schedule I

Conditions of Consent

Resource Consent No: LUC0402/14

General Conditions

- I The proposal shall proceed in general accordance with the information and plans submitted by the consent holder in support of application number LUC0402/14 and officially received by Council on 23 June 2014 and the further information received on the 18 September 2014. Except as amended by the conditions below. Copies of the approved plans are attached and listed as follows:
 - (a) Site Plan with Existing Contours (Drawing Number I40502/01 – Revision B);
 - (b) Legal Descriptions and Site Operational Area Descriptions (Drawing Number I40502/02- Revision A);
 - (c) Earthworks Outline Details (Drawing Number I40502/03 – Revision B);
 - (d) Earthworks Outline Details (Drawing Number I40502/04 – Revision B);
 - (e) Stormwater Collection and Treatment Schematic (Drawing Number I40502/05 – Revision A);
 - (f) Outline Details – Silt Retention Pond and Forebay (Drawing Number I40502/06 – Revision A); and
 - (g) Diagram of Works Schedule (Drawing Number I40502/07- Revision A).
- 2 Prior to commencing any engineering design or construction works, the consent holder shall appoint an appropriately qualified and competent **Developer's Representative⁽¹⁾** acceptable to Waikato District Council, to provide all designs, supervision, certification and final signoff, in accordance the requirements of the Hamilton City Development Manual.

The **Developer's Representative⁽¹⁾** shall be a person/s who is/are commonly entitled to practise as a **Chartered Professional Engineer** or a **Registered Professional Surveyor** (who shall have experience in engineering acceptable to Waikato District Council, and who shall carry professional indemnity insurance specific to the works he/she is supervising/certifying. Proof of this insurance will be required).

All works forming part of the consent which require engineering design, supervision, and testing shall be certified by the **Certifying Engineer⁽²⁾** (who is one of the **Developer's Representatives⁽¹⁾**) who shall be a **Chartered Professional Engineer**. Once appointed, the **Certifying Engineer⁽²⁾** shall not be changed without the approval of the Waikato District Council's Senior Development Engineer in writing.

The **Developer's Representative⁽¹⁾** shall be responsible for:

 - (a) Project management of the development proposal during the planning and construction phases of the development;

- (b) Arranging design, and obtaining necessary geotechnical investigation and reports for the development, including the preparation of engineering documents and obtaining necessary approvals from Waikato District Council;
 - (c) Observation of the works;
 - (d) Arranging the necessary testing and inspections;
 - (e) Identification any non-compliant work and arranging for correction; and
 - (f) Certification upon completion that the works have been carried out in accordance with the approved documents and sound engineering practice.
- 3 Pursuant to Section 36 of the Resource Management Act 1991 the consent holder shall pay the actual and reasonable costs incurred by the Waikato District Council when monitoring the conditions of this consent.
- 4 The consent holder shall be responsible for all sub-contracted operations relating to the exercise of this resource consent, and must ensure staff and sub-contractors are made aware of the conditions of this consent and ensure compliance with those conditions.
- 5 Pursuant to sections 128 to 131 of the Resource Management Act 1991, the Waikato District Council may within 1 month of the commencement of this consent, and at 2 monthly intervals thereafter serve notice on the consent holder of its intentions to review any or all of the condition of this consent for the following purpose:
 - (a) To review the effectiveness of the conditions of this consent in avoiding, remedying, or mitigating, any adverse effect on the environment that may arise from the exercise of this resource consent (in particular the potential adverse environmental effects in relation to noise, earthworks, erosion and sediment control and geotechnical stability) and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions;
 - (b) To address any adverse effects on the environment which has arisen as a result of the exercise of this consent that were not anticipated at the time of granting this consent, including addressing any issues arising out of complaints; and
 - (c) To require the consent holder, if necessary and appropriate, to adopt the best practicable option(s) to avoid, remedy or mitigate any adverse effects on the surrounding environment.

Prior to Earthworks

- 6 The consent holder shall notify the Waikato District Council's Team Leader Monitoring, in writing, of their intention to begin works, a minimum of fourteen days prior to commencing works.
- 7 Prior to undertaking works within the 'contingency works area', as demonstrated on Drawing Number 140502/02 – Revision B, the consent holder shall notify the Waikato District Council's Team Leader Monitoring of their intention to begin such works, a minimum of 24 hours prior to commencing works. Within 14 days of that notification the consent holder shall provide the following information to Waikato District Council's Team Leader Monitoring:

- (a) Works intended to be undertaken including plans for those works;
 - (b) A description of the reasons for the need for those works; and
 - (c) Expected duration of works.
- 8 Prior to undertaking any soil disturbing activities associated with this consent, the consent holder shall install erosion and sediment control measures in accordance with the Waikato Regional Council's Erosion and Sediment Control Guidelines for Soil Disturbing Activities: January 2009. Such measures shall include the construction of the proposed sediment retention pond, as demonstrated on Drawing Number I40502/06 – Revision A and any other necessary measures.

During Earthworks

- 9 Management of the earthworks shall be in general accordance with the application document and further information provided, unless otherwise agreed, in writing with Waikato District Council's Team Leader-Monitoring.
- 10 The earthworks shall be completed within 6 months of Council receiving notification of the consent holder's intention to complete the works, unless the time period is extended in writing by Waikato District Council's Team Leader Monitoring.

Advisory Note: *An example of when the time period may be extended includes when works are required within the 'contingency works area'.*

- 11 The consent holder shall undertake the proposed earthworks to ensure that:
- (a) The maximum bench height is 10m supported by a 20m wide bench as demonstrated Drawing Number I40502/04 – Revision B and as recommended by Mark T Mitchell in the Geotechnical Report contained in Appendix 3 of the application. Any variation to these bench heights and widths will only be approved by Waikato District Council's Team Leader Monitoring if supported by appropriate producer statements (PS1 and PS2) from the **Certifying Engineer**⁽²⁾.
 - (b) Benches are constructed to ensure run-off from the outer edges to the toe drains;
 - (c) Toe drains are constructed and thereafter maintained to ensure free flow of stormwater to the sediment pond without any blockages to the drains by eroded or collapsed batters; and
 - (d) The cross section and gradient of the toe drains are sufficient to accommodate the predicted flow volumes and velocities without overtopping of the benches and batters.
- 12 The consent holder shall engage the **Certifying Engineer**⁽²⁾ to undertake monitoring of the works as follows:
- (a) Prior to the commencement of excavations (to review the proposed sequencing of activities including site drainage and initial haul routes);
 - (b) At two monthly intervals over the period which earthworks are being undertaken;

- (c) At other times prior to when the location or manner of site drainage is to be significantly altered;
- (d) Immediately following completion of the works; and
- (e) At six monthly intervals following completion of the works until such time as the final batter slopes can be confirmed by that engineer as being stabilised.

The consent holder shall require the engineer to provide Waikato District Council's Team Leader Monitoring with the dates that this monitoring is undertaken and the outcome of each visit.

- 13 The consent holder shall engage the services of a suitably qualified and experienced archaeologist to oversee the works along the southern highwall and near the historic mine settlement. The archaeologist will be required to provide written confirmation to Waikato District Council's Monitoring Team Leader of any subsurface remains identified.

- 14 The consent holder shall ensure that, should any human remains or archaeological items be exposed while undertaking works on site, the works in that area will cease immediately. The Heritage New Zealand, Kaumatua representing the local Tangata Whenua, Waikato District Council, and in the case of human remains, the New Zealand Police, shall be informed of the discovery as soon as possible. Work shall not recommence in the affected area until any necessary statutory authorisations or consents have been obtained.

Advisory Note: *The consent holder should note that all sites associated with human activity prior to 1900 are protected under the Heritage New Zealand Pouhere Taonga Act 2014 regardless of whether or not the sites are recorded or registered, or whether resource or building consent has been granted, or whether the activity is permitted in a Regional or District Plan, or whether the land is designated. An authority must be obtained from Heritage NZ in accordance with the Heritage New Zealand Pouhere Taonga Act 2014 prior to any work being carried out. This is a legal requirement.*

- 15 There shall be no discharge of particulate matter as a result of the activities authorised by this resource consent that causes an objectionable or offensive effect beyond the boundary of the certificates of title owned by the consent holder.

Note: For the purpose of condition 15 of this resource consent, the Waikato District Council will consider an effect that is objectionable or offensive to have occurred if any appropriately experienced officer of the Waikato District Council deems it so after having regard to:

- (i) The frequency, intensity, duration, amount, effect and location of the suspended or particulate matter; and/or
- (ii) Receipt of complaints from neighbours or the public; or
- (iii) Relevant written advice or a report from an Environmental Health Officer of a territorial authority or health authority.

- 16 All construction work on the site shall be designed and conducted to ensure that construction noise from the titles owned by the consent holder does not exceed the noise limits in the following table. Sound levels shall be measured and assessed in accordance with the provisions of NZS 6803:1999 *Acoustics – Construction Noise*, as follows:

Time	Weekdays (dBA)		Saturdays (dBA)		Sundays (dBA)	
	L _{eq}	L _{max}	L _{eq}	L _{max}	L _{eq}	L _{max}
0630 - 0730	60*	75	45	75	45	75
0730 - 1800	75*	90*	75*	90*	55	85
1800 - 0630	45	75	45	75	45	75

* where a site is exposed to construction work for a duration exceeding 20 weeks then 5dBA shall be subtracted from the noise limits marked.

- 17 The hours of operation for activities associated with this consent (including start-up of machinery) shall be Mondays to Saturday only, between the hours of 7.00am and 6.00pm. No works shall be undertaken on public holidays.

Post Earthworks

- 18 Once the earthworks are completed, the consent holder shall ensure that, as soon as possible, and within a maximum of 12 months, the areas where soil disturbing activities were undertaken (i.e. where overburden was deposited) are revegetated (or by other approved means) to achieve a minimum 80% coverage.
- 19 Once the earthworks are completed, the consent holder shall ensure that every practical attempt is made to establish vegetation on the cut benches. This may require the working of the fireclay or the spreading of material suitable for the establishment of vegetative cover for the benches.
- 20 Erosion and sediment controls shall be maintained and remain in place until (at least) the minimum required cover is achieved, and may only be removed once the Waikato District Council's Team Leader Monitoring is satisfied that the risk from erosion and instability has been reduced to a less than minor risk.
- 21 On completion of the earthworks and associated works, the consent holder is to provide a final Geotechnical Engineering report and site stability report prepared by a **Geo-professional**⁽³⁾ to the satisfaction Waikato District Council's Team Leader-Monitoring.
- The report shall include plans showing the extent and slope of cut batters and benches and toe drains and the extent and depth of any fills constructed. The location and level of any underfill drains shall also be noted on these plans.
- The report is also to confirm that the target static and seismic stability factor/s have been achieved.
- 22 That within 3 months of the earthworks being completed the consent holder shall provide to Council with a report from a suitably qualified and experienced archaeologist that addresses the following:
- (a) Includes mapping and photographic recording of the adjacent mining settlement (i.e. colliery houses) prior to the earthworks and during the earthworks;

- (b) Provides the history contained in the Clough and Associated Ltd report, titled "Proposed Expansion of Mining Activities, Puke Coal Ltd, Pukemiro, Waikato, Archaeological Assessment, dated July 2014 and contained in Appendix 4 of the application;
- (c) Provides a summary of any oral history; and
- (d) Provides a summary of any subsurface remains identified during the earthworks.

23 Pre - construction and post - construction contour plans are to be provided to Waikato District Council's Team Leader Monitoring on completion of the earthworks and prior to any further development of the site taking place.

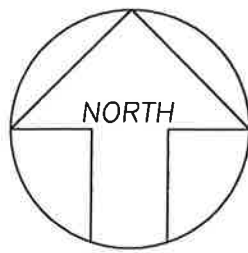
Advisory Note: *The pre-construction contour plans shall be for contours that have been taken within 1 month prior to the commencement of the proposed earthworks.*

Schedule 2

Reasons for Decision

Resource Consent No:LUC0402/14

- 1 The earthworks are reasonably necessary to stabilise two existing highwalls on the site that have been adversely affected by historic extraction activities. The ability to complete this work as proposed has been made possible by the purchase of the properties previously owned by the McKenzie's. Implementation of this consent will result in a safer and more stable outcome for these two highwalls.
- 2 The actual and potential effects that may result from the proposed earthworks include noise, dust, ecology, archaeological effects on the visual character and amenity of the surrounding area. Overall these effects are considered to be acceptable because of the nature of the works, the location of the works, the consented baseline and the ability to control potential effects through the imposition of the above consent conditions.
- 3 The proposal is consistent with the relevant objectives and policies of the Operative Waikato District Plan.
- 4 The application was processed on a non-notified basis and was approved under delegated authority. No parties were deemed to be affected by the proposal due to the nature of the proposal, the location of the works and the consented baseline that forms part of the assessment of this application.
- 5 Overall the proposal meets the purpose (section 5) and principles (sections 6-8) of the Resource Management Act 1991.



APPROX CURRENT POSITION OF
COAL FACE AND BATTER

BUSH TRAMWAY RAILWAY LINE TO
NORTH OF NORTHERN SITE
BOUNDARIES

ROTOWARO ROAD

STORMWATER DISCHARGES
TO WAITARAWA STREAM ON
NORTH SIDE OF ROTOWARO
ROAD

SECONDARY
STORMWATER
TREATMENT PONDS

EARTH DAM
IMPOUNDING PRIMARY
TREATMENT POND

STORMWATER
PRIMARY
TREATMENT POND

EXISTING SITE OFFICE,
WEIGHBRIDGES AND
COAL SCREENING AND
LOADOUT PLANT

SITE ACCESS ROAD FROM
ROTOWARO ROAD

INTERFACE WITH EXISTING
HIGHWALLS DRAINAGE IS
TO THE NORTH TO AN
EXISTING PUMPING PIT

TEMPORARY
STORAGE AREA
FOR EXCAVATED
MATERIAL

NEW STORMWATER SILT
RETENTION POND AND
DRAIN TO STORMWATER
TREATMENT PONDS

CONTINGENT WORKS AREA
SHOWN IN DASHED
HATCHING

EXISTING C&D LANDFILL

APPROX BOTTOM OF EXIST HIGHWALL

APPROX TOP OF EXIST HIGHWALL

NEW ACCESS ROAD TO
CONNECT TO EXISTING
HIGH-LEVEL HAUL ROAD

FOR DETAIL WITHIN THIS AREA
REFER DRAWING 140502/03

EXISTING WORKSHOP

LOCATION OF RUINS OF
COLLIERY HOUSES

DISUSED LIMESTONE
QUARRY SITE

LOCATION OF OLD RUGBY
LEAGUE PLAYING FIELD

APPROVED
17/11/14

DISUSED LIMESTONE
QUARRY SITE

Puke Coal Consulting Limited
Consulting Engineers
90 Hillsborough Road,
Hillsborough 1042
Phone (09) 625 8579 - 0221 880 870
E-mail: wayne@tutukakaco.com

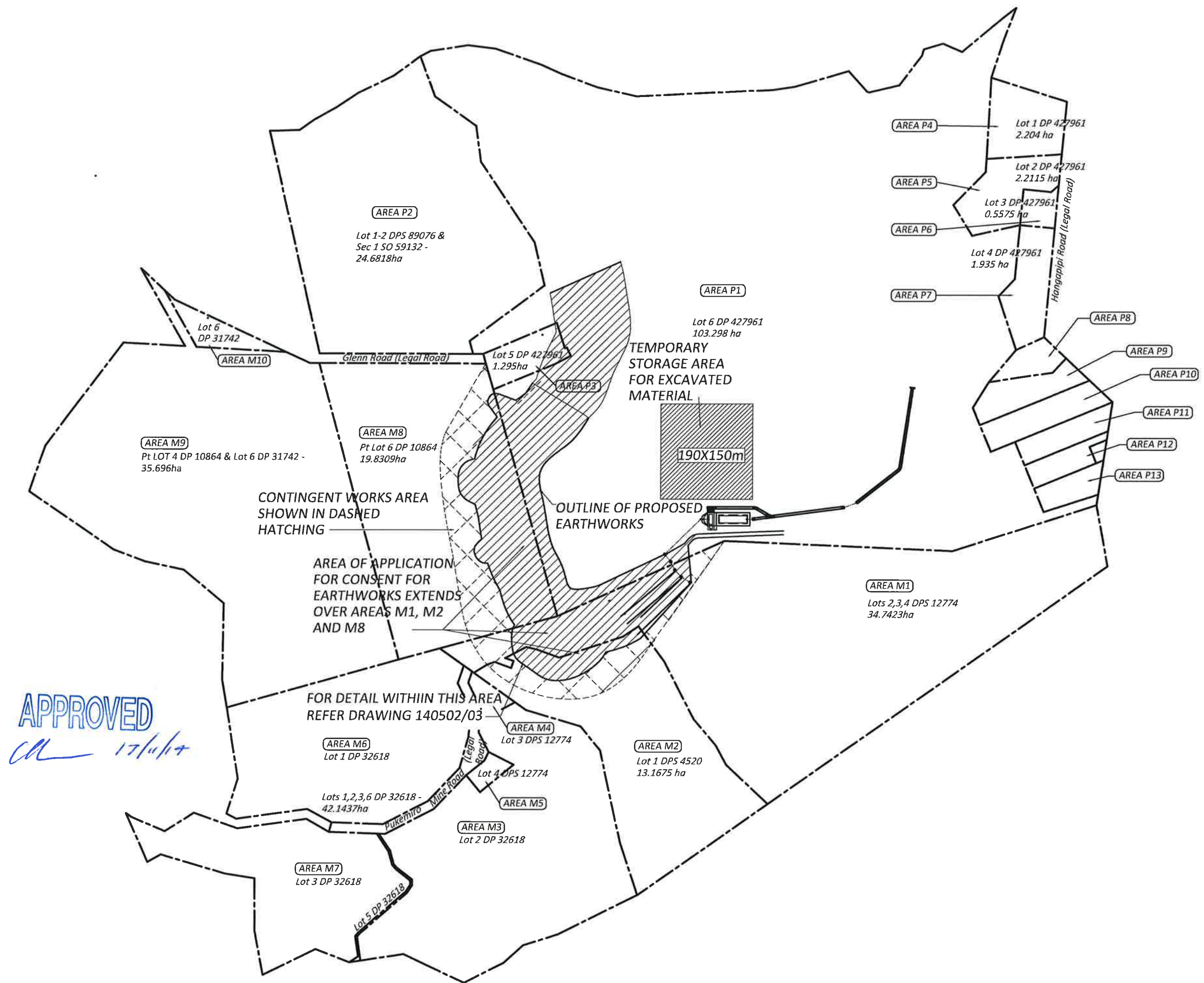
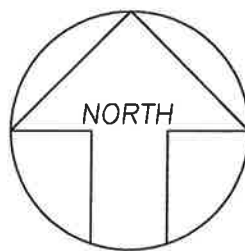
client:
PUKE COAL LIMITED
location:
1158 ROTOWARO ROAD, GLEN AFTON

project:
RESOURCE CONSENT APPLICATION FOR EARTHWORKS
drawing title:
SITE PLAN WITH EXISTING CONTOURS

SCALE:
1:4000
FILE: puke coal site 02
DATE: 09/13
ORIGINAL SIZE: A1

REVISIONS
A ISSUE FOR CLIENT APPROVAL 09/13
B GENERAL REVISIONS

DRAWING NUMBER
140502/01
REVISION: B



Puke Coal Consulting Limited
Consulting Engineer
90 Hillsborough Road,
Hillsborough 1042
Phone (09) 625 8579 - 0221 880 870
E-mail: wayne@tutukakaco.com

client:
PUKE COAL LIMITED

location:
1158 ROTOWARO ROAD, GLEN AFTON

project:
RESOURCE CONSENT APPLICATION FOR EARTHWORKS

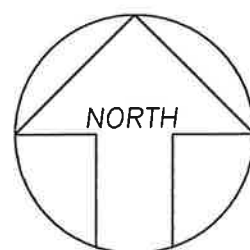
drawing title
LEGAL DESCRIPTIONS AND SITE OPERATIONAL AREA DESCRIPTIONS

FILE: puke coal site 02
DATE: 08/13
ORIGINAL SIZE: A1

REVISIONS
A ISSUE FOR CLIENT APPROVAL

DRAWING NUMBER
140502/02
REVISION: A

APPROVED
17/11/17



CONTINGENT WORKS AREA
SHOWN IN DASHED
HATCHING

EXCVAE OLD FILLED GULLEYS
TO REMOVE UNSTABLE FILL
MATERIAL -FOR A MIN
DISTANCE OF 20 METRES
FROM THE UPPER BENCH
PROVIDE OPEN CHANNEL
DRAIN TOO LEAD TO TOE DRAIN
AT UPPER BENCH

NOTES:

- 1 ALL EARTHWORKS ARE TO BE CARRIED OUT UNDER THE DIRECTION OF GEOTECHNICAL ENGINEER AND IN SUCH A MANNER AS TO ENSURE THAT THE EXCAVATION FACES ARE SAFE AT ALL TIMES. BATTER SLOPES ARE NOT TO EXCEED THOSE SHOWN ON THIS DRAWING AND MAY BE LESS IF THE MATERIALS ARE FOUND TO BE UNSUITABLE AT THOSE SLOPES WHEN WET.
- 2 EXCAVATE FILLED GULLEYS TO REMOVE UNSTABLE MATERIALS AND PERMIT
- 3 SET LEVELS TO UPPER BENCH TO DRAIN OLD FILLED GULLEYS AND FALL TO SOUTHERN END TO DISCHARGE STORMWATER TO EXISTING DRAIN.
- 4 STORMWATER DRAINS WILL BE SIZED AS THE EXTENT OF THE AREAS TO BE DRAINED BECOME ESTABLISHED.
- 5 SILT CONTROL TO BE BY WAY OF SILT FENCES, HAYBALES AND SILT RETENTION PONDS - ALL TO BE DESIGNED IN ACCORDANCE WITH WRC REQUIREMENTS.
- 6 REINSTATE GRASS OVER YELLOW CLAY AREAS AS SOON AS POSSIBLE.

Total area of earthworks on Puke Coal Block
Total area of earthworks on McKenzie Block

81000 square metres
86000

Total area of proposed earthworks

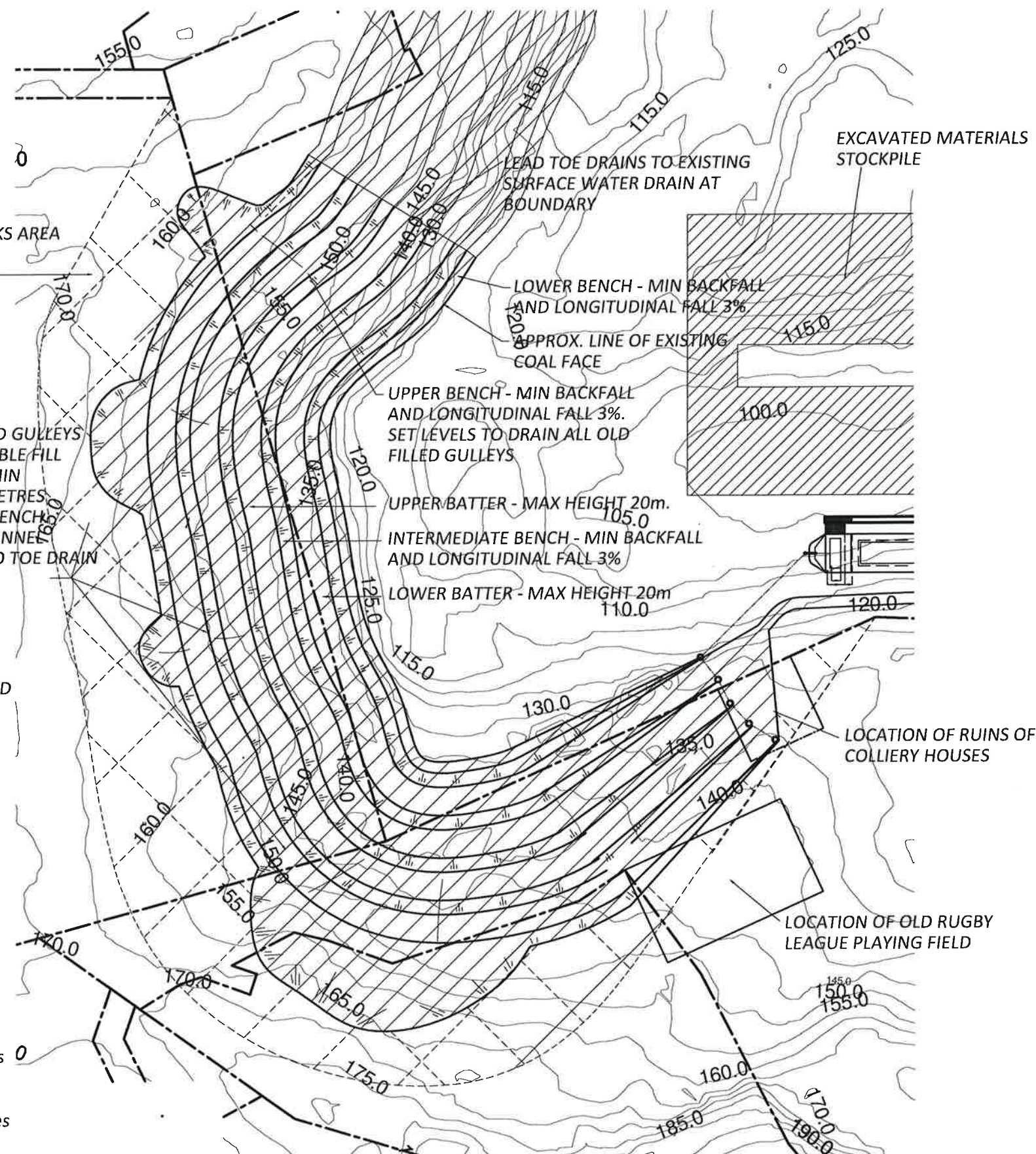
167000 square metres

Total volume of earthworks on Puke Coal Block
Total volume of earthworks on McKenzie Block

405000 cubic metres
430000

Total volume of proposed earthworks

835000 cubic metres



DETAIL PLAN OF NEW HIGHWALL
1:1500

Puke Coal Consulting Limited
Consulting Engineer
90 Hillsborough Road,
Hillsborough 1042
Phone (09) 625 8579 - 0221 880 870
E-mail: wayne@tutukako.com

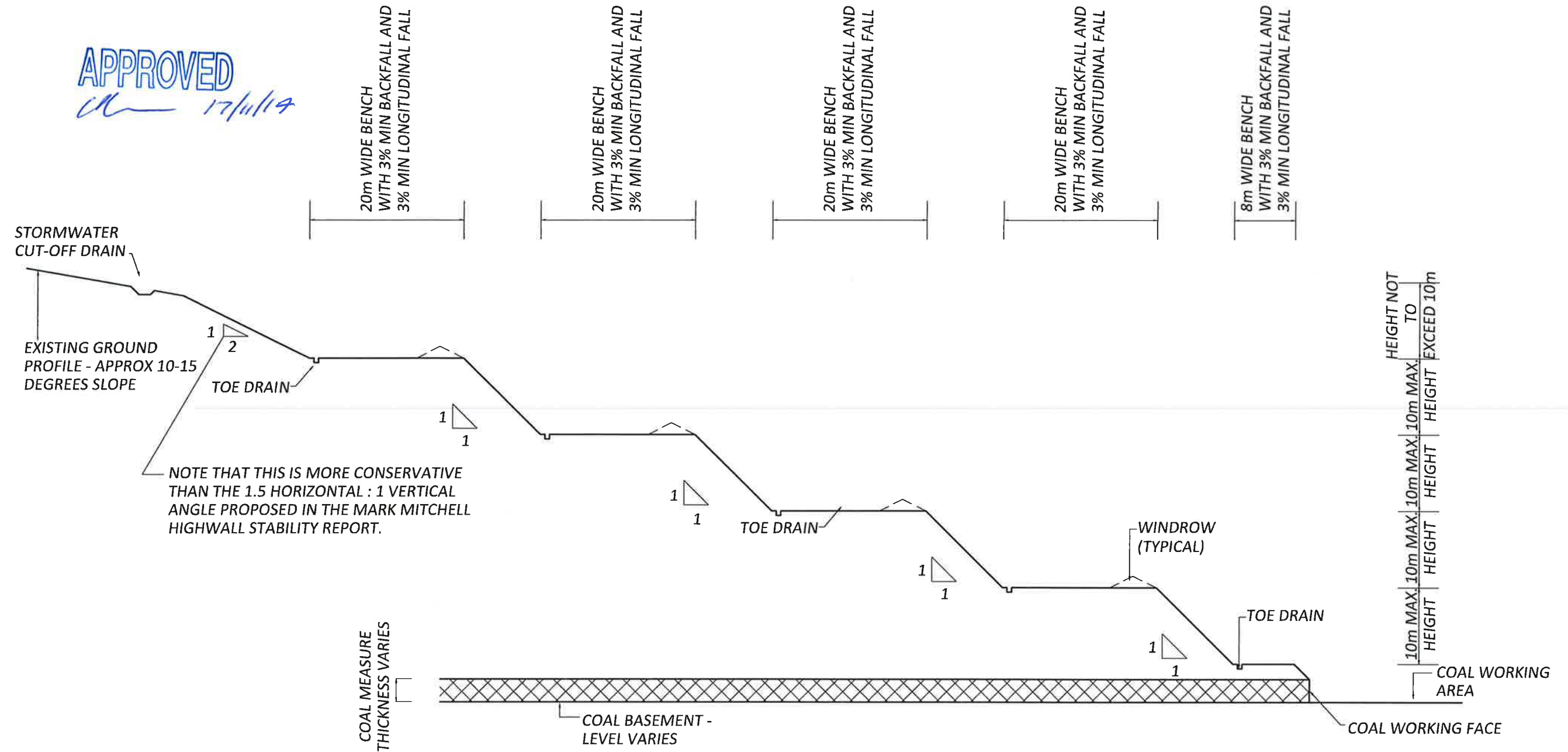
client:
PUKE COAL LIMITED
location:
1158 ROTOWARO ROAD, GLEN AFTON

project:
RESOURCE CONSENT APPLICATION FOR EARTHWORKS
drawing title:
EARTHWORKS OUTLINE DETAILS

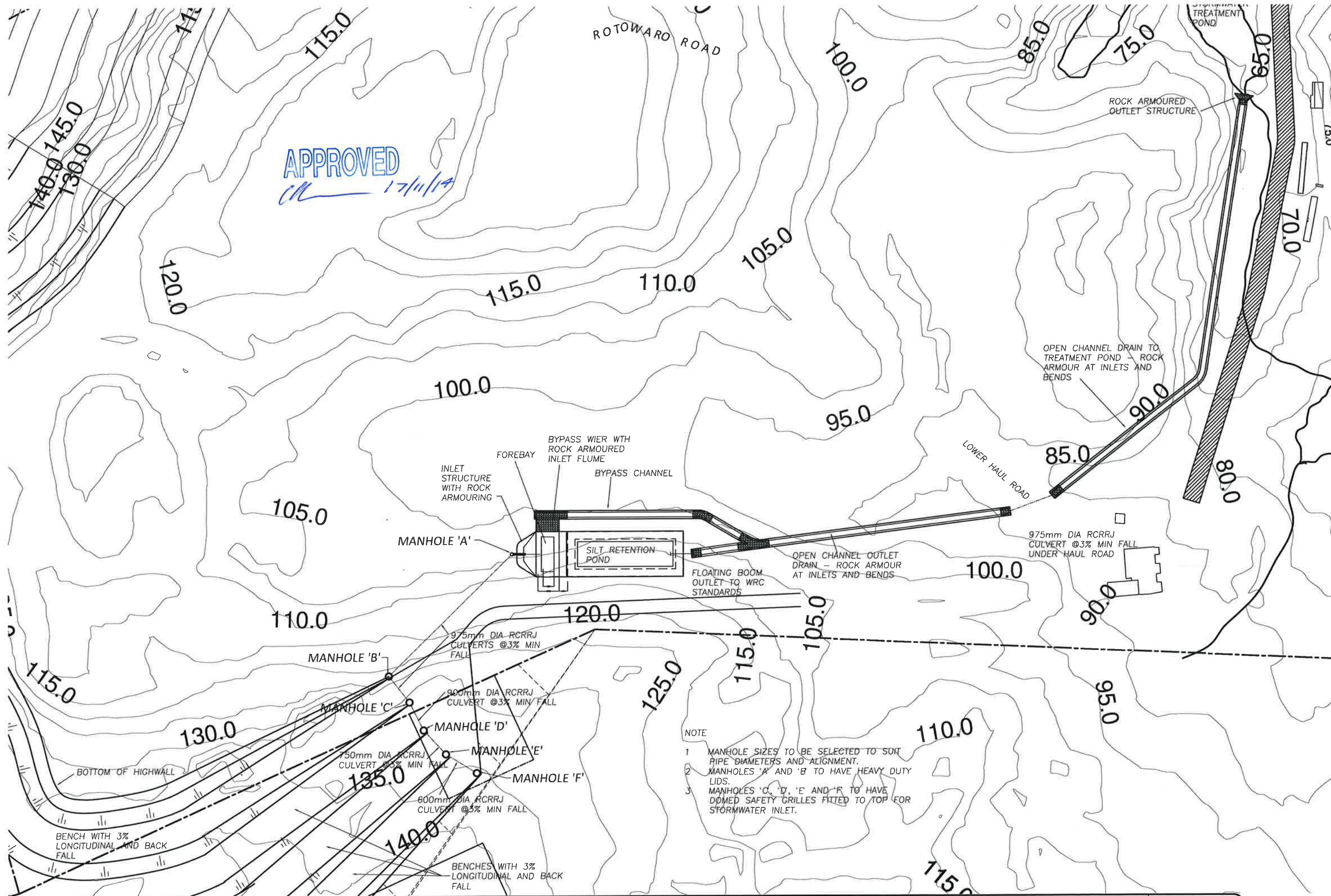
SCALE:
AS SHOWN
FILE: puke coal site 02
DATE: 08/13
ORIGINAL SIZE: A1

REVISIONS
A ISSUE FOR CLIENT APPROVAL
B GENERAL REVISIONS

DRAWING NUMBER
140502/03
REVISION: B



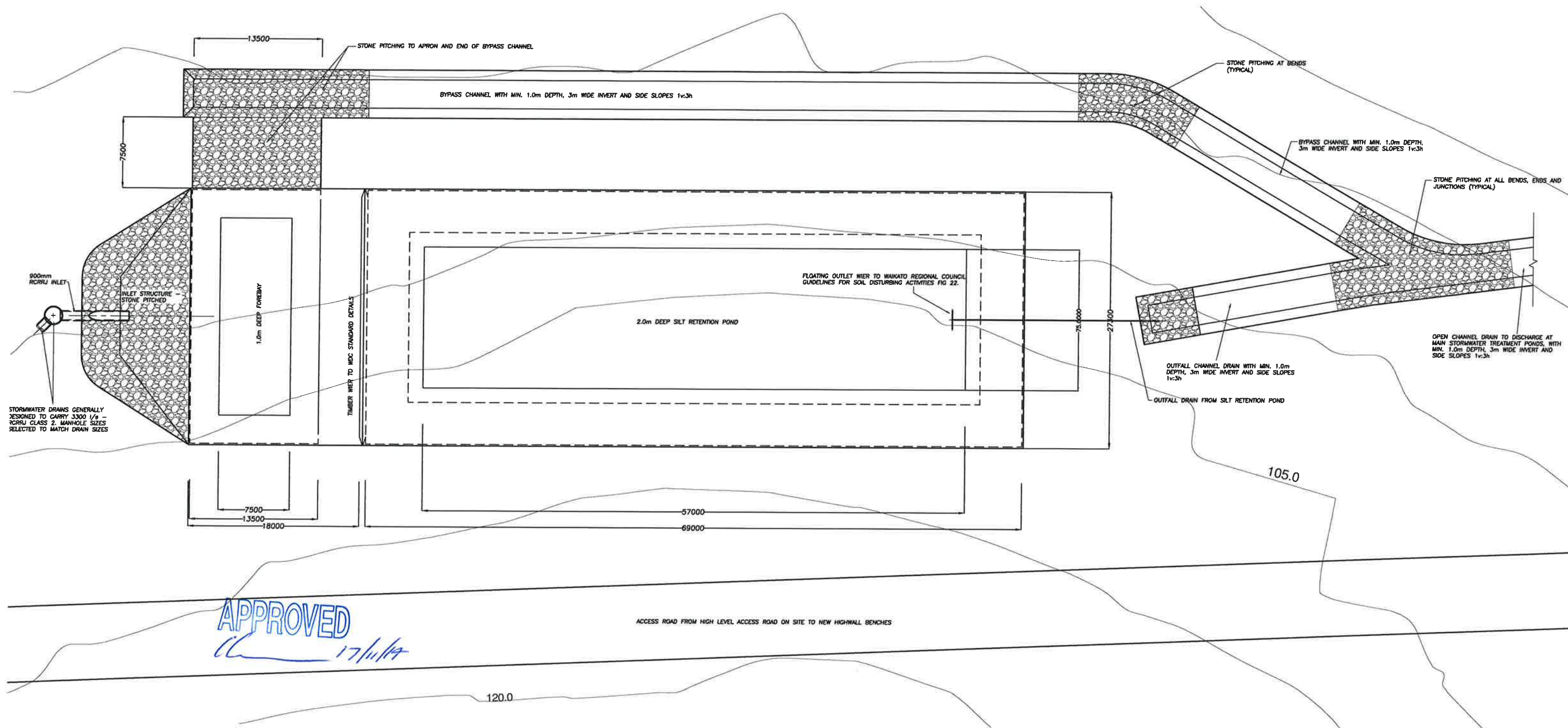
TYPICAL SECTION THROUGH BENCHING OF HIGHWALL
NOT TO SCALE



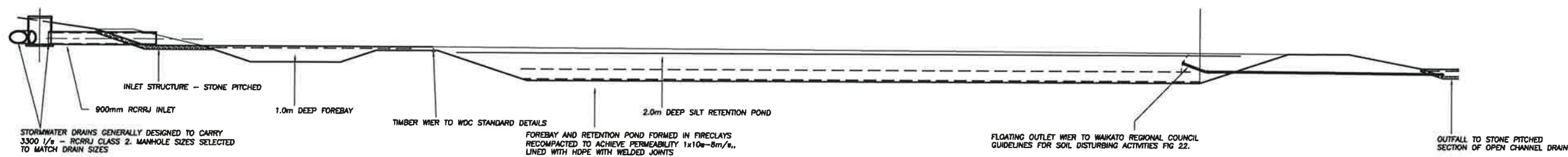
NOTE

- 1 MANHOLE SIZES TO BE SELECTED TO SUIT PIPE DIAMETERS AND ALIGNMENT.
- 2 MANHOLES 'A' AND 'B' TO HAVE HEAVY DUTY LIDS.
- 3 MANHOLES 'C', 'D', 'E' AND 'F' TO HAVE DOMED SAFETY GRILLES FITTED TO TOP FOR STORMWATER INLET.

Puke Coal Consulting Limited Consulting Engineers 90 Hillsborough Road, Hillsborough 1042 Phone (09) 625 8579 - 0221 880 870 E-mail: wayne@tutukakaco.com	client: PUKE COAL LIMITED	project: RESOURCE CONSENT APPLICATION FOR EARTHWORKS	SCALE: 1:1000	REVISIONS A ISSUE FOR CLIENT APPROVAL 08/14	DRAWING NUMBER 140502/05
	location: 1158 ROTOWARO ROAD, GLEN AFTON	drawing title STORMWATER COLLECTION AND TREATMENT SCHEMATIC	FILE: puke coal site 02 DATE: 09/13 ORIGINAL SIZE: A1		REVISION: A



DETAILED PLAN OF FOREBAY AND SEDIMENT RETENTION POND
1:200



LONGITUDINAL SECTION ON CENTRELINE OF FOREBAY AND SEDIMENT RETENTION POND
1:200

NOTE:
SCHEMATIC ONLY - ALL DIMENSIONS SUBJECT TO FINAL DESIGN

Puke Coal Consulting Limited
Consulting Engineers
90 Hillsborough Road,
Hillsborough 1042
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E-mail: wayne@tutukakaco.com

client:
PUKE COAL LIMITED
location:
1158 ROTOWARO ROAD, GLEN AFTON

project:
RESOURCE CONSENT APPLICATION FOR EARTHWORKS
drawing title:
OUTLINE DETAILS - SILT RETENTION POND AND FOREBAY

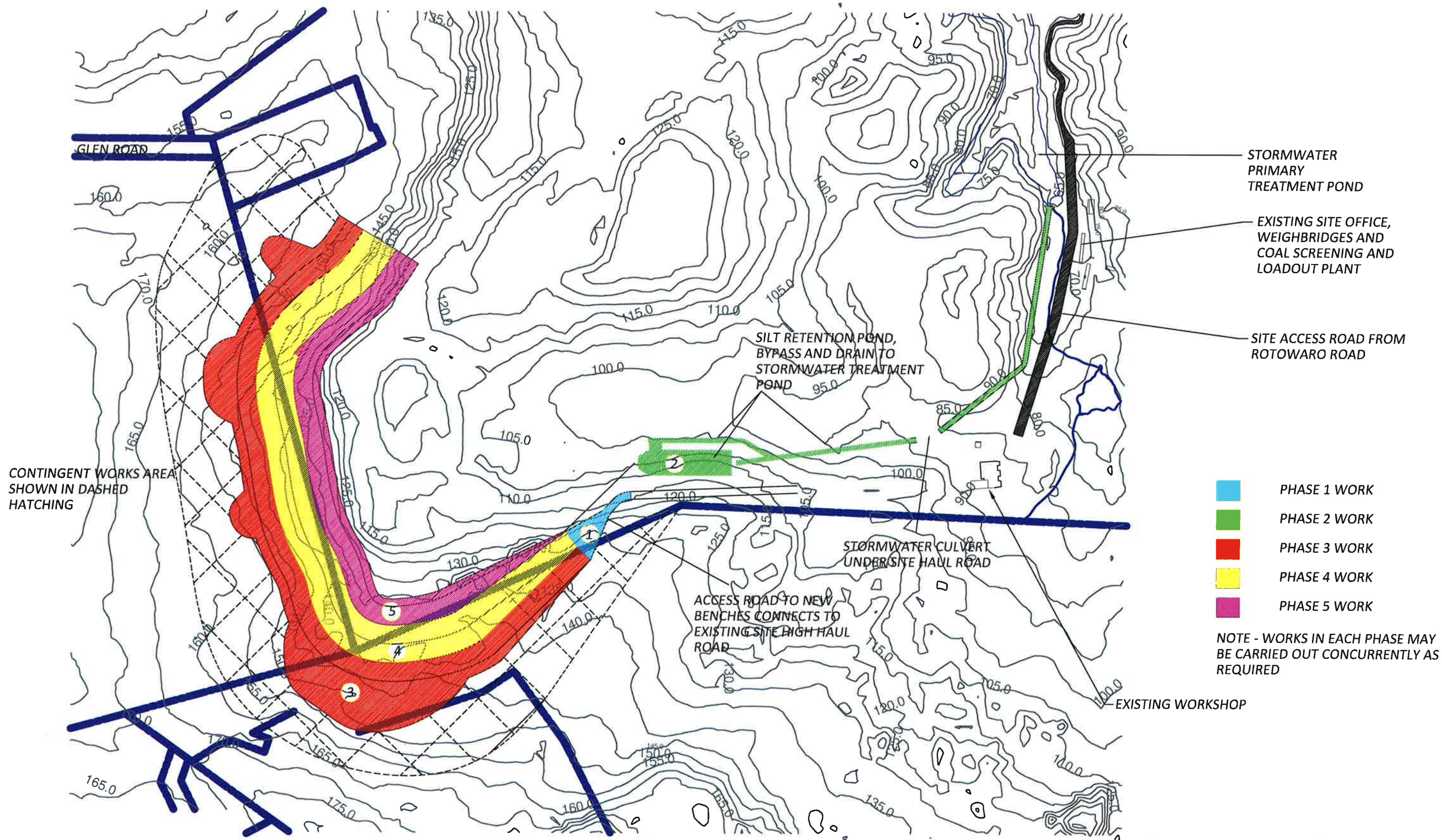
SCALES:
1:4000
FILE: puke coal site 02
DATE: 09/13
ORIGINAL SIZE: A1

REVISIONS
A ISSUE FOR CLIENT APPROVAL 09/13

DRAWING NUMBER
140502/06
REVISION: A

APPROVED

CL 17/01/14



Puke Coal Consulting Limited
Consulting Engineers
90 Hillsborough Road,
Hillsborough 1042
Phone (09) 625 8579 - 0221 880 870
E-mail: wayne@tutukakaco.com

client:
PUKE COAL LIMITED
location:
1158 ROTOWARO ROAD, GLEN AFTON

project:
RESOURCE CONSENT APPLICATION FOR EARTHWORKS
drawing title:
DIAGRAM OF WORKS SCHEDULE

SCALES:
1:2000
FILE: puke coal high-8ky dwg05
DATE: 09/14
ORIGINAL SIZE: A1

REVISIONS
A ISSUE FOR CLIENT APPROVAL 09/13

DRAWING NUMBER
140502/07
REVISION: A