Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6927/2024/1
Works approval holder	Silver Lake (Integra) Pty Limited
ACN	093 278 436
Registered business address	South Shore Plaza, Suite 4, Level 3 83-85 South Perth Esplanade SOUTH PERTH WA 6151
DWER file number	DER2024/000132
Duration	06/08/2024 to 05/08/2029
Date of issue	06/08/2024
Premises details	Randalls Gold Processing Facility EMU FLAT WA 6431 Legal description - Mining tenements M25/71, M25/125, M25/133, M25/307; General purpose lease L25/27, L25/29, L25/31, L25/33, L25/41; and Miscellaneous licence G25/02. As defined by the coordinates in Schedule 2

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	Assessed production / design capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	1,700,000 tonnes per annual period

This works approval is granted to the works approval holder, subject to the attached conditions, on 06 August 2024, by:

Christine Pustkuchen
Digitally signed by Christine Pustkuchen
Date: 2024.08.06 11:39:50 +08'00'

MANAGER, RESOURCE INDUSTRIES
INDUSTRY REGULATION (STATEWIDE DELIVERY)
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
06/08/2024	W6927/2024/1	Works approval granted.

Interpretation

In this works approval:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:

(i) if dated, refers to that particular version; and

(ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct and/or install the infrastructure;

(b) in accordance with the corresponding design and construction / installation requirements; and

(c) at the corresponding infrastructure location,

as set out in Table 1.

Table 1: Design and construction / installation requirements

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
1.	TSF1 Stage 1 embankment raise	1. Perimeter embankment constructed to a maximum crest level of RL 325.5 m (Stage 1). 2. Embankment raise must be constructed in accordance with design specifications (i.e., embankment construction material, geometry, windrow, crossfall, and downstream capping), as depicted in Schedule 2: Construction design drawings, Figure 4 and Figure 5. 3. Decant tower and accessway must be constructed in accordance with design specifications (i.e., location, embankment construction material, geometry, and bunding), as depicted in Schedule 2: Construction design drawings, Figure 4 and Figure 6. 4. Decant tower must be equipped with a submersible pump, 5. Discharge spigot must be installed at nominal 20 m intervals along the tailings distribution pipeline, in accordance with Schedule 2: Construction design drawings, Figure 7. 6. Tailings delivery and return water pipelines must be installed at locations shown in Schedule 2: Construction design drawings, Figure 7, and: a. equipped with telemetry systems and pressure sensors to detect	Labelled as 'TSF1', as depicted in Schedule 1: Maps, Figure 2.	None.

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
		leaks and failures; and b. automated cut-outs in the event of a pipe failure; or c. be installed within secondary containment sufficient to contain any spill for a period equal to the time between routine inspections; and d. have scour sumps located at sag points along the secondary containment. 7. Water cart must be used for dust suppression during construction activities, where required to manage fugitive dust.		
2.	TSF1 Stage 2 embankment raise	1. Perimeter embankment constructed to a maximum crest level of RL 328.0 m (Stage 2), RL 330.5 m (Stage 3). 2. Embankment raise must be constructed in accordance with design specifications (i.e., embankment construction material, geometry, windrow, crossfall, and downstream capping), as depicted in Schedule 2: Construction design drawings, Figure 8 and Figure 9. 3. Decant tower and accessway must be raised in accordance with design specifications (i.e., location, embankment construction material, geometry, and bunding), as depicted in Schedule 2: Construction design drawings, Figure 8 and Figure 10. 4. Discharge spigot must be installed at nominal 20 m intervals along the tailings distribution pipeline, in accordance with Schedule 2: Construction design drawings, Figure 7. 5. Tailings delivery and return water pipelines must be installed at locations shown in Schedule 2: Construction design drawings, Figure 7 6. Water cart must be used for dust suppression during construction activities, where required to manage fugitive dust.		
3.	TSF1 Stage 3 embankment raise			

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
4.	TSF2 Stage 4 embankment raise	1. Perimeter embankment constructed to a maximum crest level of RL 313.0 m (Stage 4), RL 316.0 (Stage 5), RL 319.0 m (Stage 6). 2. Embankment raise must be constructed in accordance with design specifications (i.e., embankment construction material, geometry, windrow, crossfall, and downstream capping), as depicted in Schedule 2: Construction design drawings, Figure 11, Figure 12, and Figure 13. 3. Seepage cut-off trench and downstream toe drain must be constructed at starter embankments in accordance with design specifications (i.e., location, construction material, depth, dimension, and bunding), as depicted in Schedule 2: Construction design drawings, Figure 12. 4. Decant tower and accessway must be raised in accordance with design specifications (i.e., location, embankment construction material, geometry, and bunding), as depicted in Schedule 2: Construction design drawings, Figure 11 and Figure 14. 5. Discharge spigot must be installed at nominal 20 m intervals along the tailings distribution pipeline, in accordance with Schedule 2: Construction design drawings, Figure 7. 6. Tailings delivery and return water pipelines must be installed at locations shown in Schedule 2: Construction design drawings, Figure 7 7. Water cart must be used for dust suppression during construction activities, where required to manage fugitive dust.	Labelled as 'TSF2', as depicted in Schedule 1: Maps, Figure 2.	
5.	TSF2 Stage 5 embankment raise			
6.	TSF2 Stage 6 embankment raise			
7.	Return water ponds	1. Ponds must comprise of two cells with nominal combined storage capacity of 10,000 m^3. 2. Ponds must be constructed in	Labelled as 'Proposed Return Water Ponds', as depicted in	Prior to commencement of tailings deposition into either TSF1

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
		accordance with Schedule 2: Construction design drawings, Figure 15 and Figure 16, including: a. lined with 2.0 mm HDPE over a geosynthetic clay liner; b. equipped with high water level alarm; c. equipped with an emergency spillway at each cell, lined with 300 mm of rip-rap rock layer along spillway flow path; d. equipped with internal spillway between the two cells; 3. Open channels must be constructed along adjacent access road to divert spillway water from downstream embankments.	Schedule 1: Maps, Figure 2.	Stage 1 embankment raise or TSF2 Stage 4 embankment raise, whichever is sooner.
8.	West Groundwater Recovery Drain upgrade	1. Concrete lined sump must be constructed at the north and south terminus of the existing drain and be equipped with a submersible pump. 2. Base of the drain must be re-levelled to ensure drainage to the terminus sumps. 3. After relevelling, the drain must be backfilled with coarse broken rock material to 500 mm below surface level, and then with clay subsoil material to natural surface level.	Labelled as 'West Groundwater Recovery Drain', as depicted in Schedule 1: Maps, Figure 2.	

2. The works approval holder must design, construct, and install groundwater monitoring wells in accordance with the requirements specified in Table 2.

Table 2: Infrastructure requirements – groundwater monitoring wells

Infrastructure	Design, construction, and installation requirements	Monitoring well locations	Timeframe
One shallow and one deep groundwater monitoring well at: 1. NMB07; 2. NMB08; 3. NMB09;	<u>Well design and construction:</u> Designed and constructed in accordance with *ASTM D5092.* Well screens must target the part, or parts, of the aquifer most likely to be affected by contamination[2]. Where temporary/seasonal perched features are present, wells must be nested, and the perched features individually screened.	Labelled as 'Proposed Monitoring Bores', as depicted in Schedule 1: Maps, Figure 3.	Must be constructed, developed (purged), and determined to be operational prior to the commencement of tailings deposition into

Infrastructure	Design, construction, and installation requirements	Monitoring well locations	Timeframe
4. NMB10; 5. NMB11; 6. NMB12; 7. NMB13; 8. NMB14[1].	<u>Logging of borehole:</u> Soil samples must be collected and logged during the installation of monitoring wells. A record of the geology encountered during drilling must be described and classified in accordance with *AS 1726*. Any observations of staining / odours or other indications of contamination must be included in the bore log.		either TSF1 Stage 1 embankment raise or TSF2 Stage 4 embankment raise, whichever is sooner.
	<u>Well construction log:</u> Well construction details must be documented within a well construction log to demonstrate compliance with *ASTM D5092/D5092M-16*. The construction logs shall include elevations of the top of casing position to be used as the reference point for water-level measurements, and the elevations of the ground surface protective installations.		
	<u>Well development:</u> All installed monitoring wells must be developed after drilling to remove fine sand, silt, clay, and drilling mud residues from around the well screen to ensure the hydraulic functioning of the well. A detailed record should be kept of well development activities and included in the well construction log.		
	<u>Installation survey:</u> The vertical (top of casing) and horizontal position of each monitoring well must be surveyed and subsequently mapped by a suitably qualified surveyor.		
	<u>Well network map:</u> A well location map (using aerial image overlay) must be prepared and include the location of all monitoring wells in the monitoring network and their respective identification numbers.		

Note 1: Only one shallow groundwater monitoring well required; no deep well required.
Note 2: Refer to Section 8 of Schedule B2 of the *NEPM* for guidance on well screen deep and length.

Compliance reporting

3. The works approval holder must within 60 calendar days of an item of infrastructure required by condition 1 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

4. The Environmental Compliance Report required by condition 3, must include as a minimum the following:

(a) certification by a suitably qualified engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

5. The works approval holder must, within 60 calendar days of the monitoring wells required by condition 2 being constructed, submit to the CEO a well construction report evidencing compliance with the requirements of condition 2.

Specified actions

6. The works approval holder must provide a report to the CEO on each item specified in Table 3 and its corresponding requirements within the timeframe specified in Table 3.

Table 3: Specified actions

Item	Specified action requirements	Timeframe
1.	**Hydrogeological review** Undertake an investigation, in the vicinity of TSF1 and TSF2, to: a. characterise the existing extent of groundwater mounding; b. identify any zones of higher permeability and preferential flow pathways for seepage, particularly where sensitive environmental receptors are present and may be impacted by groundwater mounding; and c. identify potential locations for installation of groundwater recovery bore infrastructure. The investigation must be supported by empirical data, including (but not limited to): a. monitoring data from existing groundwater monitoring bores and groundwater monitoring bores constructed under condition 2; and b. advancement and lithological logging of additional boreholes undertaken for the installation of groundwater monitoring bores constructed under condition 2; and/or c. geophysical transect surveys, using electrical and/or electromagnetic techniques. Based on the outcome of the investigation, the report must include, at the very least: a. an updated assessment of monitoring information from	Prior to 06 May 2025.

Item	Specified action requirements	Timeframe
	groundwater monitoring bores, including additional monitoring bores constructed under condition 2; b. refinement of the conceptual hydrogeological model, including extent of groundwater mounding and any preferential flow pathways; and c. proposed location for additional groundwater monitoring and/or recovery bores, including adequate justification for siting, bore design (i.e., depth, screen interval, casing), and timeframe for implementation.	
2.	**Groundwater management plan audit** Undertake an audit of the recommendations of the Groundwater Management Plan, including (but not limited to) whether recommendations have been implemented within intended timeframe. If not, adequate justification should be provided.	Prior to 06 May 2025.

Time limited operations phase

Commencement and duration

7. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 9 when the Environmental Compliance Report for that item of infrastructure, as required by condition 3, has been submitted by the works approval holder.

8. The works approval holder may conduct time limited operation for an item of infrastructure specified in condition 9:

(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 3 for that item of infrastructure; or

(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 8(a).

Time limited operations requirements

9. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 4 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirements set out in Table 4.

Table 4: Infrastructure and equipment requirements during time limited operations

Item	Infrastructure	Operational requirements	Infrastructure location
1.	TSF1 Stage 1 embankment raise	1. Tailings slurry must be discharged sub-aerially, with spigot deposition patterns rotated to optimise tailings beach slope and supernatant pond formation. 2. The supernatant pond size must be maintained as small as practicable;	Labelled as 'TSF1', as depicted in Schedule 1: Maps, Figure 2.
2.	TSF1 Stage 2 embankment raise		

Item	Infrastructure	Operational requirements	Infrastructure location
3.	TSF1 Stage 3 embankment raise	3. The supernatant pond boundary must be maintained at least 120 m away from the perimeter embankments (except during Stage 1); 4. Return water pumping must be undertaken continuously at the decant tower, aside from maintenance and repairs. 5. A total freeboard of 500 mm must be maintained at all times, in addition to sufficient allowance to contain a 1:100 AEP storm event for 72 hours.	
4.	TSF2 Stage 4 embankment raise	1. Tailings slurry must be discharged sub-aerially, with spigot deposition patterns rotated to optimise tailings beach slope and supernatant pond formation. 2. The supernatant pond size must be maintained as small as practicable; 3. The supernatant pond boundary must be maintained at least 200 m away from the perimeter embankments; 4. Return water pumping must be undertaken continuously at the decant tower, aside from maintenance and repairs. 5. A total freeboard of 500 mm must be maintained at all times, in addition to sufficient allowance to contain a 1:100 AEP storm event for 72 hours.	Labelled as 'TSF2', as depicted in Schedule 1: Maps, Figure 2.
5.	TSF2 Stage 5 embankment raise		
6.	TSF2 Stage 6 embankment raise		
7.	Return water ponds	1. Integrity of HDPE liner, high water level alarm, and emergency spillway must be maintained during water storage.	Labelled as 'Proposed Return Water Ponds', as depicted in Schedule 1: Maps, Figure 2.

10. During time limited operation, the works approval holder must ensure that the emissions specified in Table 5.

Table 5: Authorised discharge point during time limited operation

Emission point reference	Emission description and source	Emission point location
TSF1, TSF2	Tailings slurry: Produced from Randalls Gold Processing Facility. No other material may be discharged into this emission point.	Labelled as 'TSF1' and 'TSF2', as depicted in Schedule 1: Maps, Figure 2.
Return water ponds	Return water from TSF1 and TSF2 supernatant pond; Bore water from the Lucky Bay borefield; Recovered groundwater from groundwater recovery bores and groundwater recovery drains.	Labelled as 'Proposed Return Water Ponds', as depicted in Schedule 1: Maps, Figure 2.

Emission point reference	Emission description and source	Emission point location
	Process water from the Randalls Gold Processing Facility.	

11. During time limited operation, the works approval holder must:

(a) undertake inspections of the infrastructure at the corresponding frequency, as specified in Table 6;

(b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and

(c) maintain a record of all inspections undertaken.

Table 6: Inspection of infrastructure during time limited operation

Infrastructure	Type of inspection	Frequency of inspection
TSF1 embankment; TSF2 embankment.	Visual integrity (i.e., evidence of seepage, cracking, erosion, etc.); Freeboard capacity.	Daily
TSF1 supernatant pond; TSF2 supernatant pond.	Pond size and location.	Daily
Tailings delivery pipelines; Return water pipelines.	Visual integrity.	Every12 hours.

Monitoring during time limited operations

12. During time limited operation, the works approval holder must ensure that:

(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;

(b) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and

(c) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured.

13. During time limited operation, the works approval holder must ensure that all monitoring equipment used on the premises to comply with conditions 15 and 16 is calibrated in accordance with manufacturer specification.

14. During time limited operation, the works approval holder must ensure that monitoring is undertaken in each quarterly period such that there are at least 45 calendar days in between days on which samples are taken in successive quarters.

15. During time limited operation, the works approval holder must monitor discharges:

(a) at the corresponding monitoring location;

(b) for the corresponding parameters;

(c) in the corresponding unit;

(d) for the corresponding averaging period; and

(e) at no less than the corresponding frequency,

as set out in Table 7.

Table 7: Monitoring of emissions and discharges during time limited operation

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Limit
1. TSF1 decant pond[1]; 2. TSF2 decant pond[1]; 3. North GRD[2]; 4. East GRD[2]; 5. West GRD[2]; 6. TSF2 Turkeys Nest[2].	As depicted in Schedule 1: Maps, Figure 2 and Figure 3.	pH[3]	pH unit	Spot sample	Quarterly during time limited operation of TSF1 and TSF2 embankment raises.	---
		Electrical conductivity (EC)[3]	µS/cm			---
		Inorganic: • Total dissolved solids (TDS)[3]; • Total nitrogen (TN).	mg/L			---
		Weak acid dissociable cyanide (WAD CN)	mg/L			---

Note 1: Monitoring only required at the decant pond of the TSF undergoing time limited operation.
Note 2: Monitoring only required where there is sufficient water for sample collection.
Note 3: In-field non-NATA-accredited analysis permitted.

16. During time limited operation, the works approval holder must undertake monitoring of ambient groundwater:

(a) at the corresponding monitoring locations;

(b) for the corresponding parameters;

(c) in the corresponding unit;

(d) for the corresponding averaging period;

(e) at no less than the corresponding frequency; and

(f) must not exceed the corresponding limit,

as set out in Table 8.

Table 8: Monitoring of ambient groundwater quality during time limited operation

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Limit
1. IGRSM006; 2. IGRSM007; 3. IGRSM013;	As depicted in Schedule 1: Maps, Figure 3.	Standing water level (SWL)[1, 2]	mbgl; mAHD	Spot sample	At least once prior to commencement of time limited	---
		pH[1]	pH			---

Monitoring point reference	Monitoring location	Parameter	Unit	Averaging period	Frequency	Limit
4. IGRH044; 5. IGRH045; 6. MB002; 7. BH02; 8. NMB01; 9. NMB02; 10. NMB03; 11. NMB04; 12. NMB06; 13. NMB07S; 14. NMB07D; 15. NMB08S; 16. NMB08D; 17. NMB09S; 18. NMB09D; 19. NMB10S; 20. NMB10D; 21. NMB11S; 22. NMB11D; 23. NMB12S; 24. NMB12D; 25. NMB13S; 26. NMB13D; 27. NMB14.			unit		operation;	
		Electrical conductivity (EC)[1]	µS/cm		Quarterly during time limited operation of TSF1 and TSF2 embankment raises.	---
		<u>Inorganic:</u> • Total dissolved solids (TDS)[1]; • Acidity (as $CaCO_3$); • Total nitrogen (TN).	mg/L			---
		Weak acid dissociable cyanide (WAD CN)	mg/L			0.5
		<u>Major ions:</u> • Sodium (Na); • Potassium (K); • Magnesium (Mg); • Calcium (Ca); • Bicarbonate (HCO^3); • Carbonate (CO_3^{2-}); • Sulfate (SO_4); • Chloride (Cl); • SO_4/Cl ratio.	mg/L			---
		<u>Metals and metalloids:</u> • Arsenic (As); • Barium (Ba); • Cadmium (Cd); • Chromium (Cr); • Cobalt (Co); • Copper (Cu); • Lead (Pb); • Manganese (Mn); • Molybdenum (Mo); • Mercury (Hg); • Nickel (Ni); • Selenium (Se); • Zinc (Zn).	mg/L			---

Note 1: In-field non-NATA-accredited analysis permitted.
Note 2: Standing water level must be measured prior to sampling for other parameters.

Compliance reporting

17. The works approval holder must submit to the CEO a report on the time limited operations within 60 calendar days of the completion date of time limited operations or 60 calendar days before the expiration date of the works approval, whichever is sooner.

18. The works approval holder must ensure the report required by condition 17 includes the following:

(a) a summary of the time limited operations, including timeframes and amount of tailings deposited;

(b) a summary of monitoring parameter results obtained during time limited operations under conditions 15 and 16;

(c) a review of the operational of the relevant item of infrastructure and their compliance against conditions 9, 10, and 11; and

(d) where the design specifications and/or the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting

19. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.

20. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

(a) the works conducted in accordance with conditions 1, 2 and 6;

(b) any maintenance of infrastructure that is performed in the course of complying with condition 9, 10, and 11;

(c) monitoring programmes undertaken in accordance with conditions 15 and 16; and

(d) complaints received under condition 19.

21. The books specified under condition 20 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the works approval holder for the duration of the works approval; and

(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
AEP	means Annual Exceedance Probability.
annual period	a 12-month period commencing from 1 January until 31 December of the same year.
AS 1726	refers to the *Australian Standard 1726 – Geotechnical site investigations.*
AS/NZS 5667.1	refers to the *Australian Standard 5667.1 – Water quality – Sampling, Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*.
AS/NZS 5667.11	refers to the *Australian Standard 5667.11 – Water quality – Sampling, Part 11: Guidance on sampling of groundwaters*.
ASTM D5092	refers to the *ASTM D5092/D5092-16 Standard Practice for Design and Installation of Groundwater Monitoring Wells*.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
GRD	means Groundwater Recovery Drain.
HDPE	means high-density polyethylene.

Term	Definition
mAHD	means metres in accordance with the Australian Height Datum.
mbgl	means metres below ground level.
NATA	refers to the National Association of Testing Authorities.
NEPM	refers to the *National Environment Protection (Assessment of Site Contamination) Measure*.
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
RL	means reduced level.
suitably qualified engineer	means a person who: 1. holds a Bachelor of Engineering recognised by the Australian Institute of Engineers; and 2. has a minimum of five years of experience working in the design and/or implementation of the relevant infrastructure; or 3. who is otherwise approved by the CEO to act in this capacity.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
TSF	means tailings storage facility.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

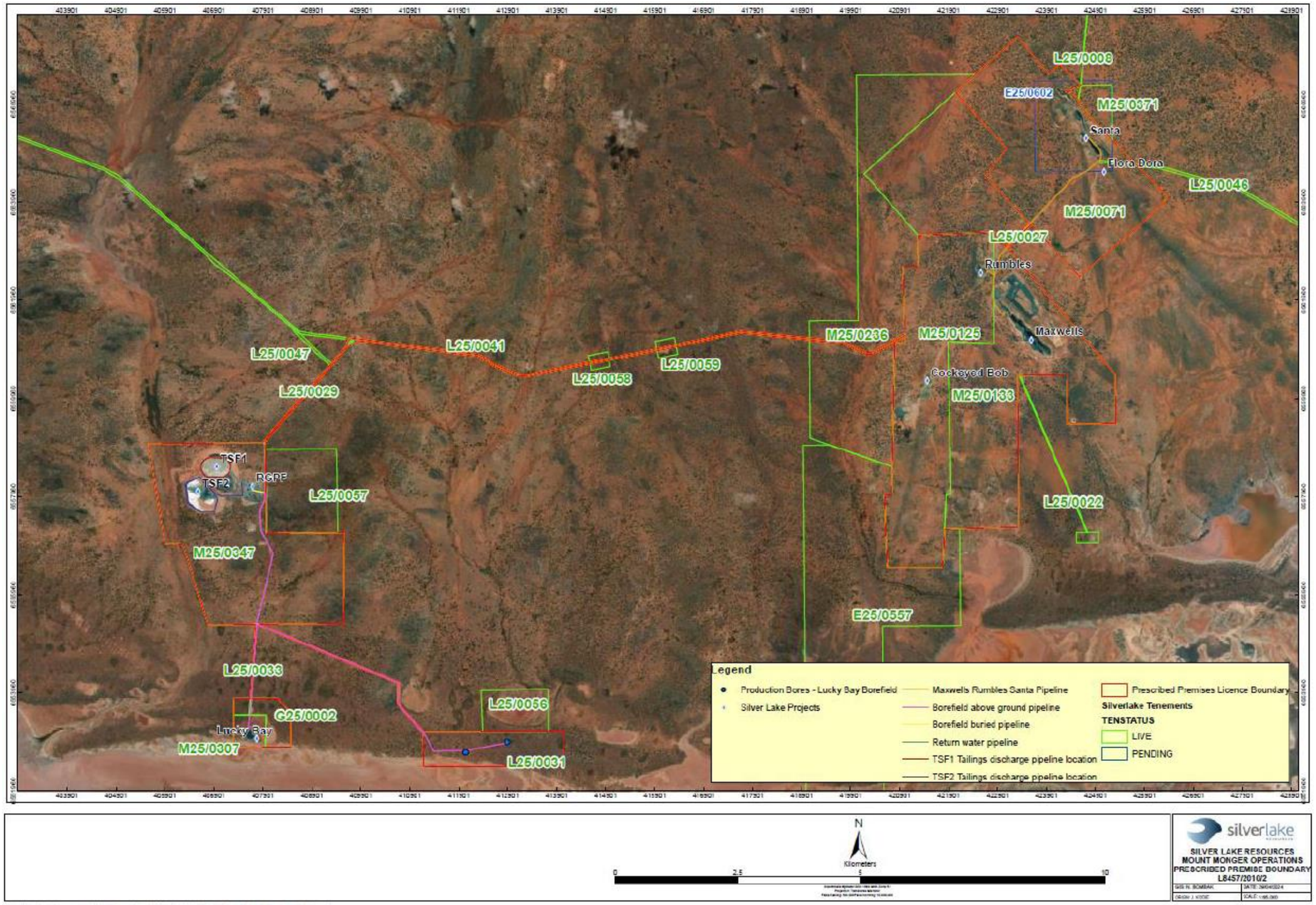


Figure 1: Map of the boundary of the prescribed premises

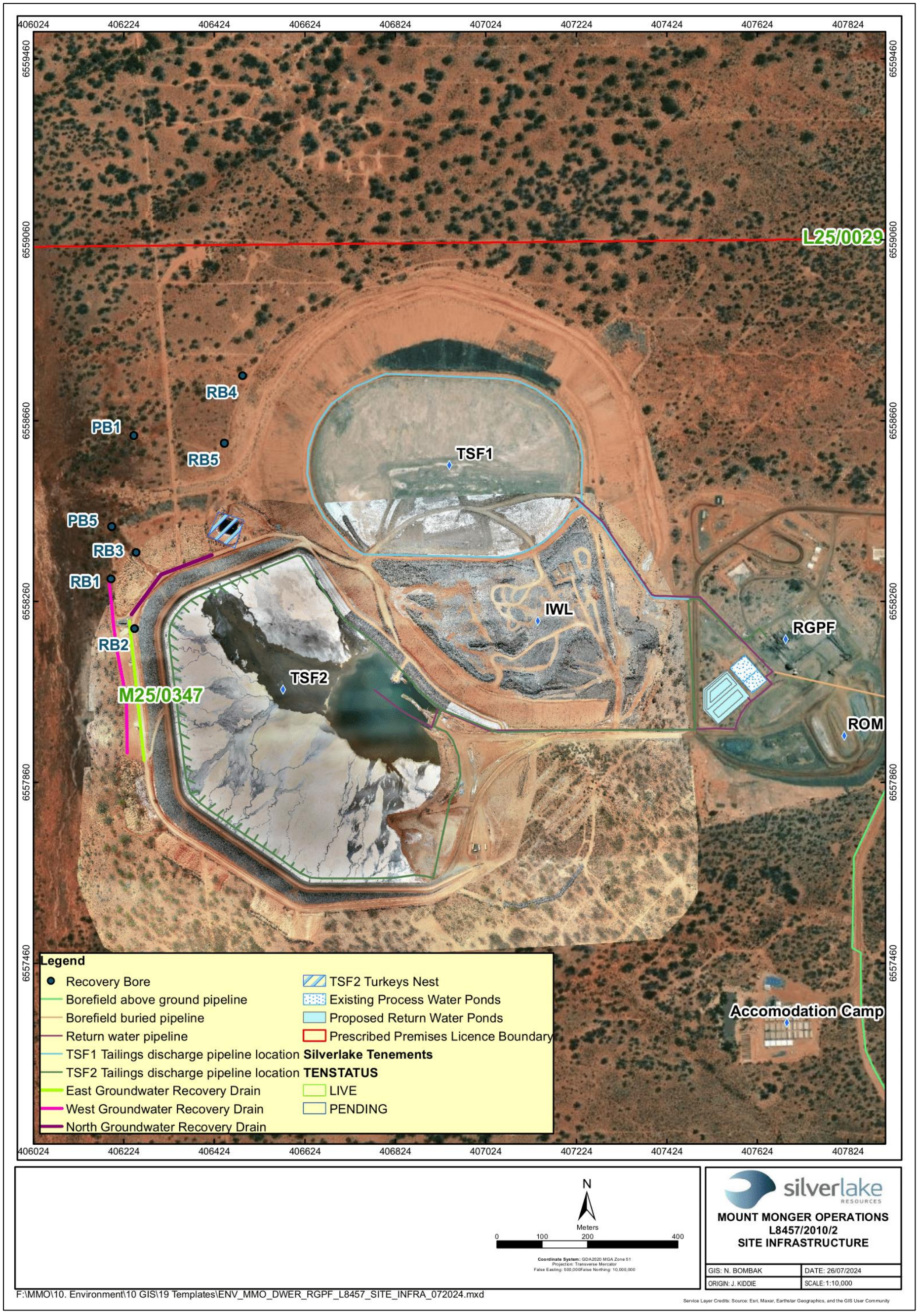


Figure 2: TSF1 and TSF2 site layout

Figure 3: Proposed and existing groundwater monitoring well locations

Schedule 2: Construction design drawings

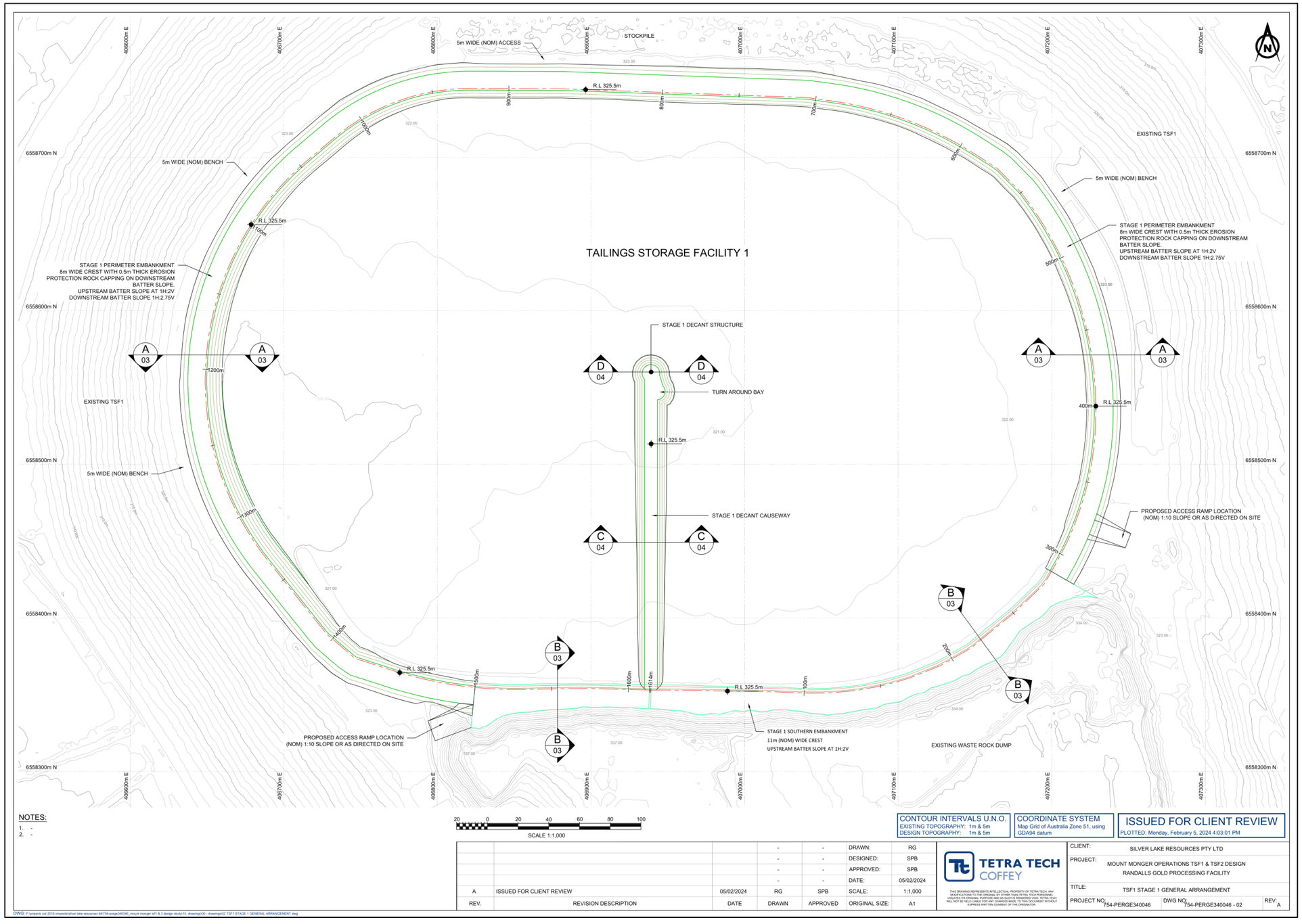


Figure 4: TSF1 Stage 1 embankment raise – general arrangement

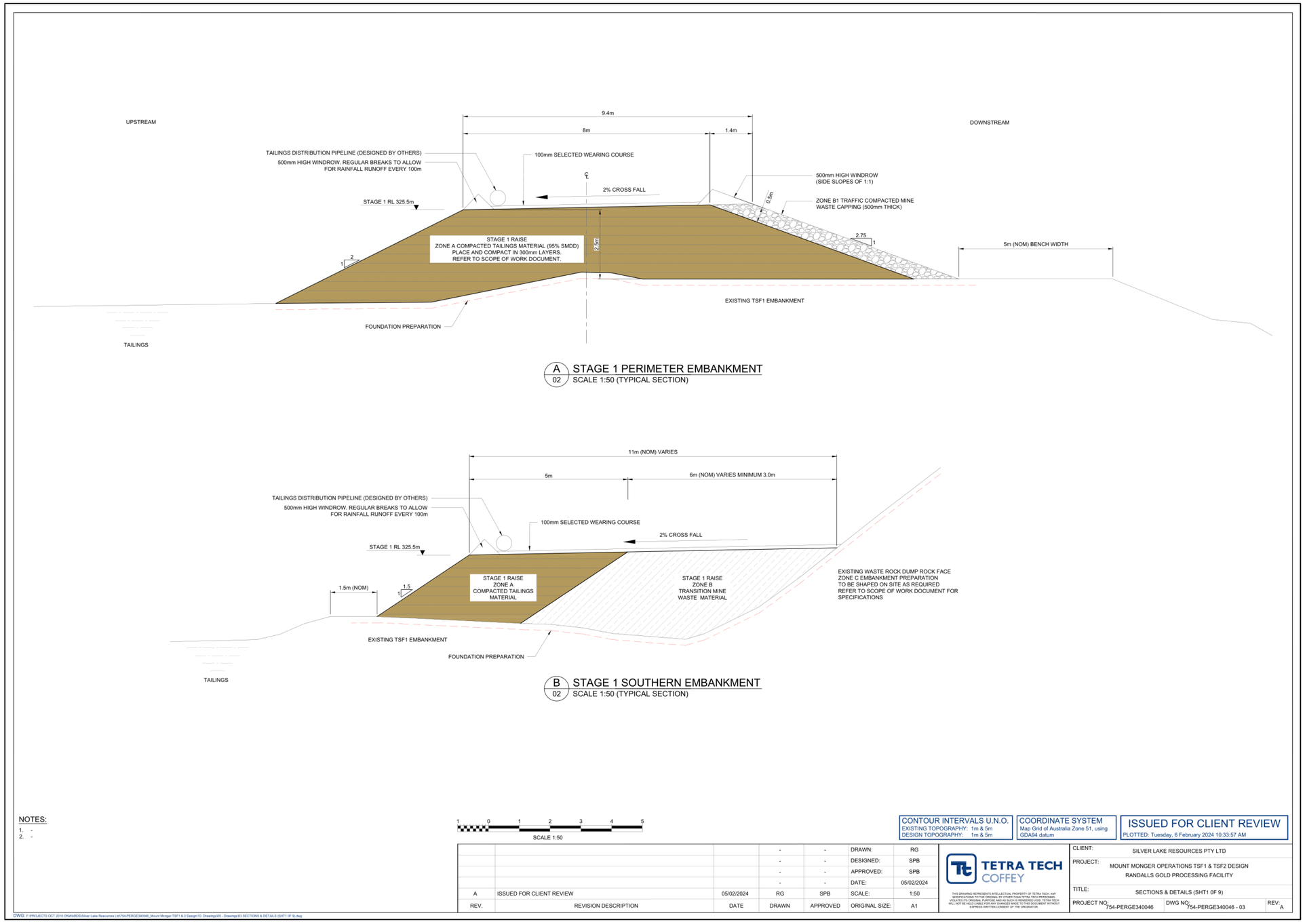


Figure 5: TSF1 Stage 1 embankment raise – cross-section

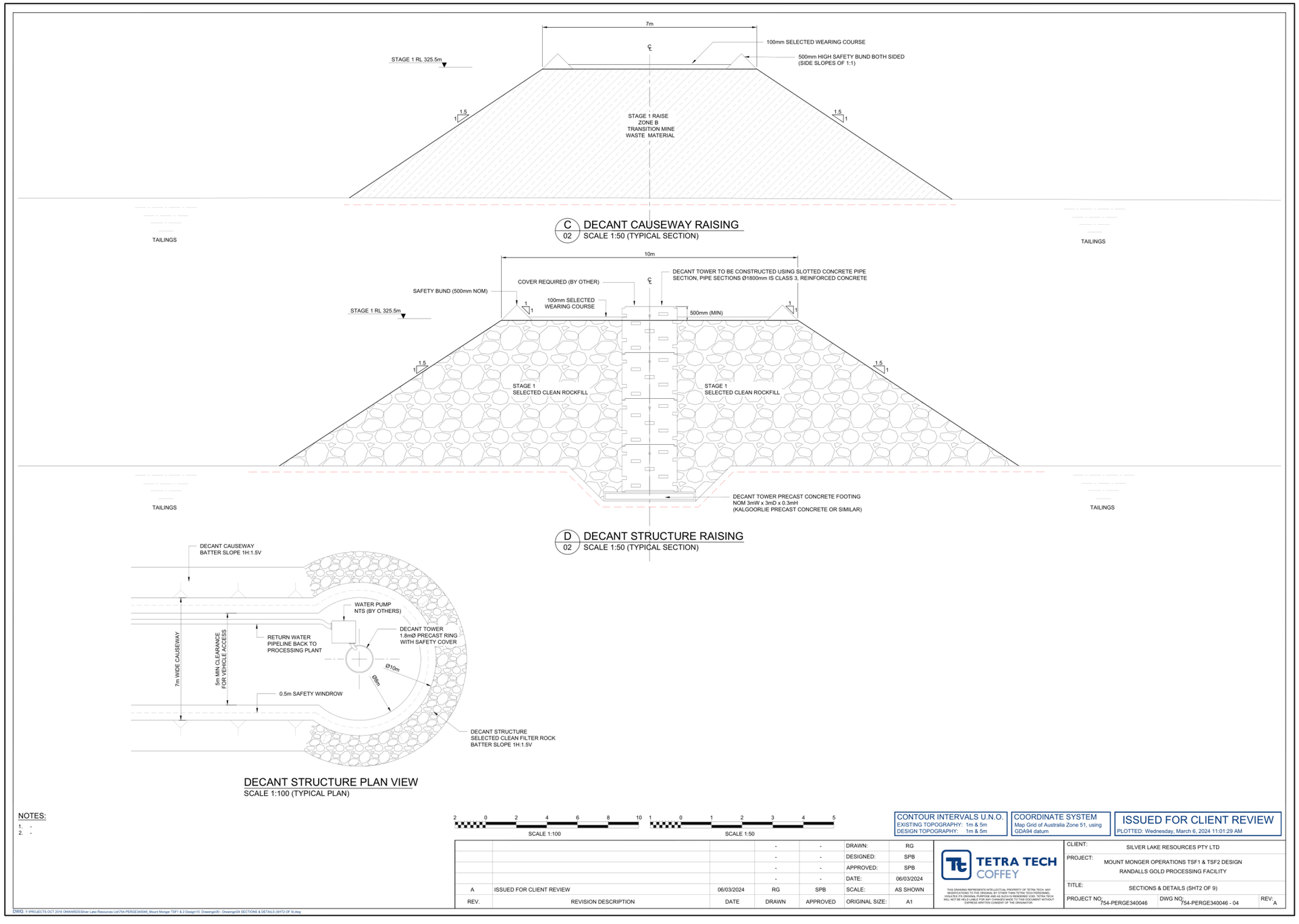
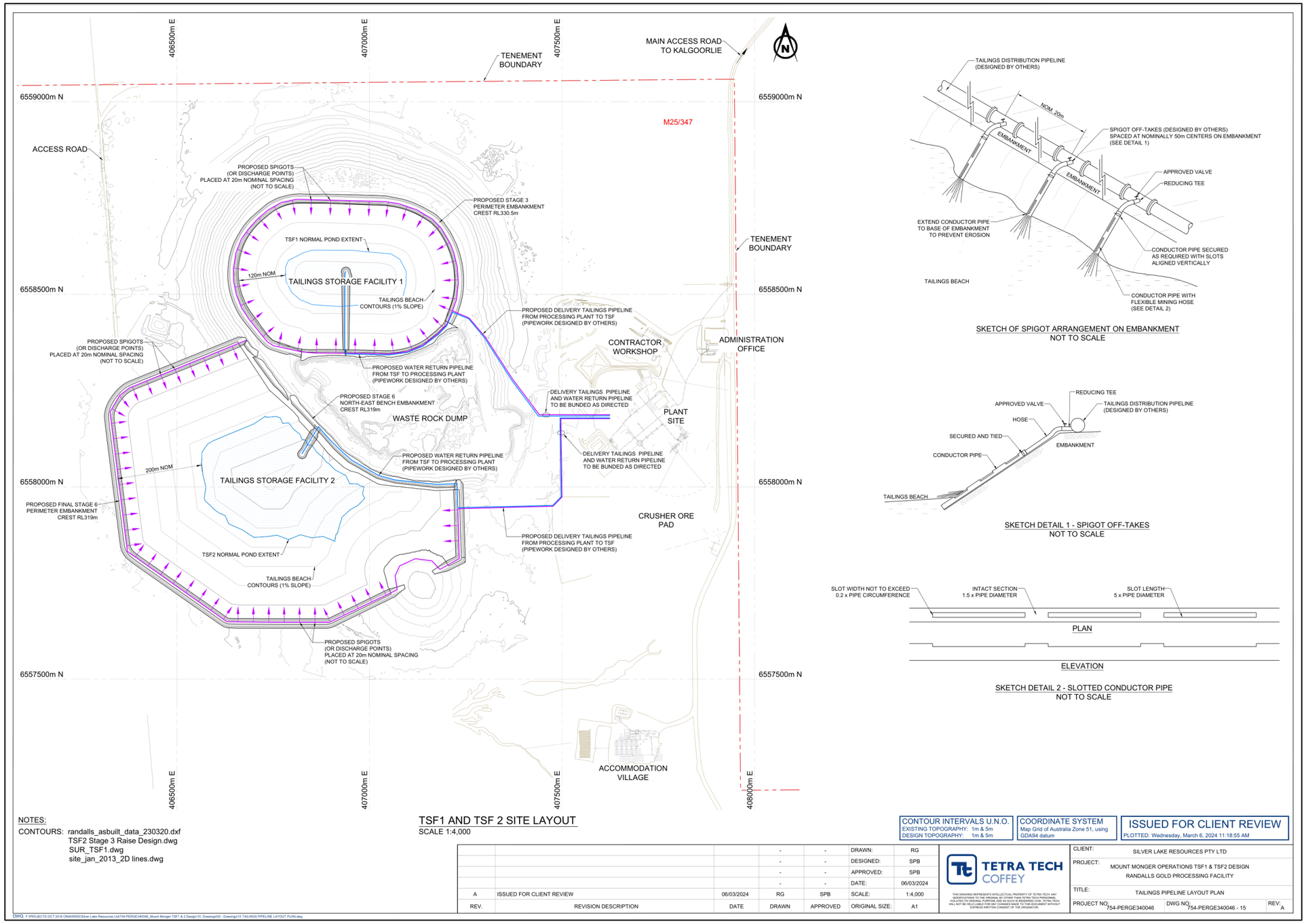


Figure 6: TSF1 Stage 1 embankment raise – decant tower and accessway



SKETCH OF SPIGOT ARRANGEMENT ON EMBANKMENT
NOT TO SCALE

SKETCH DETAIL 1 - SPIGOT OFF-TAKES
NOT TO SCALE

SKETCH DETAIL 2 - SLOTTED CONDUCTOR PIPE
NOT TO SCALE

NOTES:
CONTOURS: randalls_asbuilt_data_230320.dxf
TSF2 Stage 3 Raise Design.dwg
SUR_TSF1.dwg
site_jan_2013_2D lines.dwg

TSF1 AND TSF 2 SITE LAYOUT
SCALE 1:4,000

CONTOUR INTERVALS U.N.O.
EXISTING TOPOGRAPHY: 1m & 5m
DESIGN TOPOGRAPHY: 1m & 5m

COORDINATE SYSTEM
Map Grid of Australia Zone 51, using GDA94 datum

ISSUED FOR CLIENT REVIEW
PLOTTED: Wednesday, March 6, 2024 11:18:55 AM

REV.	REVISION DESCRIPTION	DATE	DRAWN	APPROVED	ORIGINAL SIZE:	A1
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			-	-	DATE:	06/03/2024
			-	-	APPROVED:	SPB
			-	-	DESIGNED:	SPB
			-	-	DRAWN:	RG

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CLIENT: SILVER LAKE RESOURCES PTY LTD
PROJECT: MOUNT MONGER OPERATIONS TSF1 & TSF2 DESIGN
RANDALLS GOLD PROCESSING FACILITY
TITLE: TAILINGS PIPELINE LAYOUT PLAN
PROJECT NO: 754-PERGE340046
DWG NO: 754-PERGE340046 - 15
REV: A

DWG: F:\PROJECTS OCT 2016 ONWARDS\Silver Lake Resources Ltd\754-PERGE340046_Mount Monger TSF1 & 2 Design\10. Drawings\02 - Drawings\15 TAILINGS PIPELINE LAYOUT PLAN.dwg

Figure 7: Tailings distribution pipeline and discharge spigots

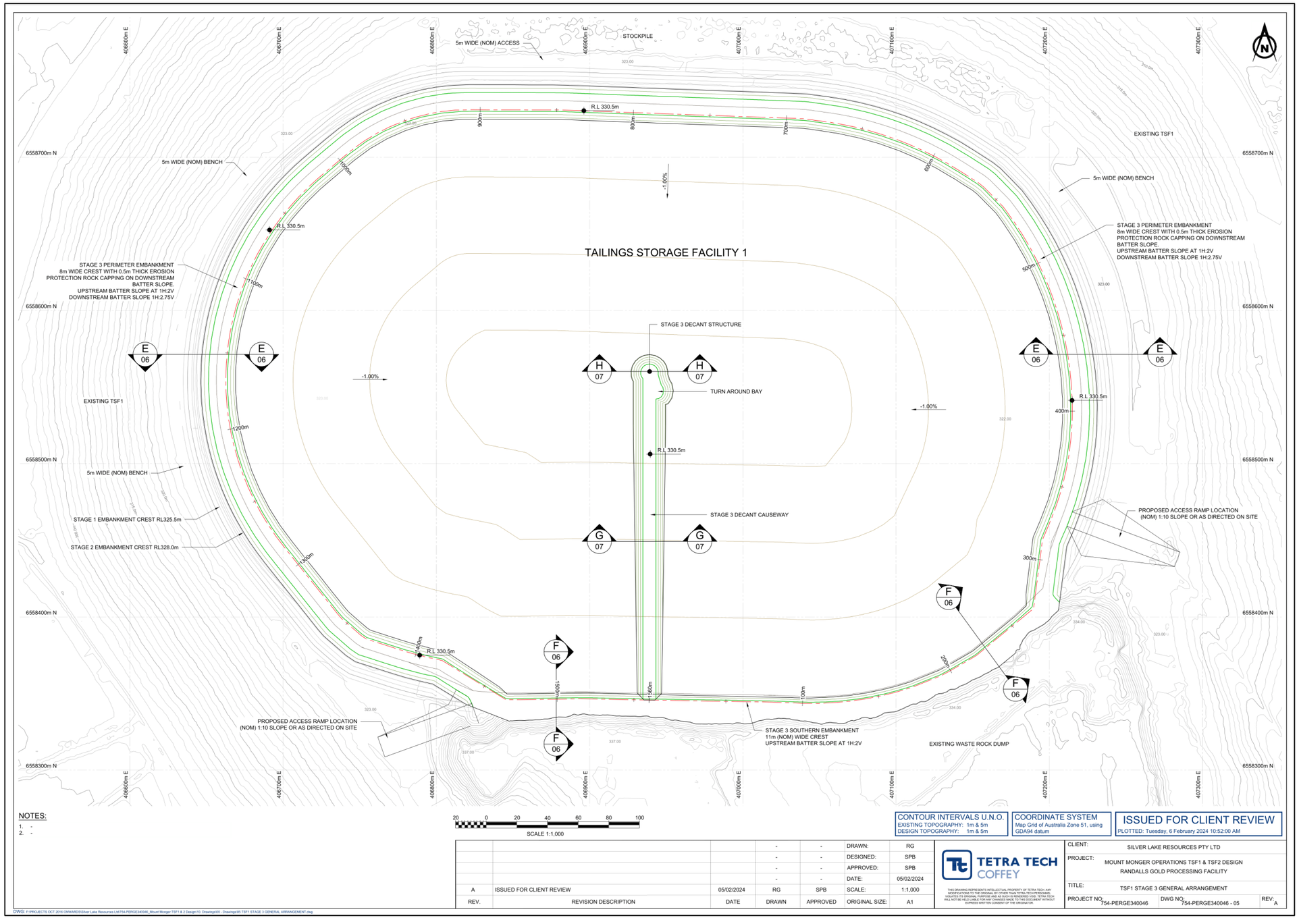


Figure 8: TSF1 Stage 3 embankment raise – general arrangement

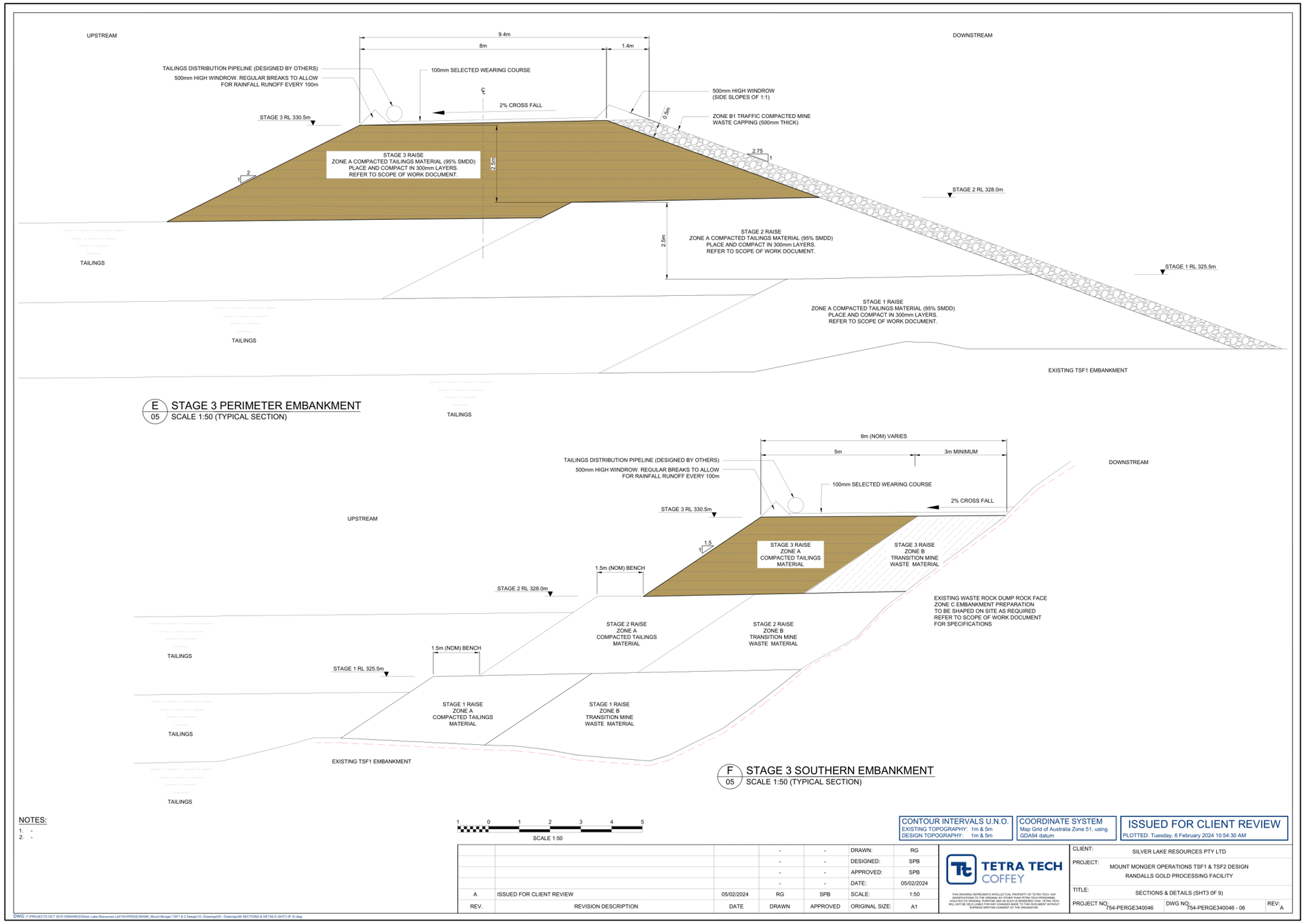
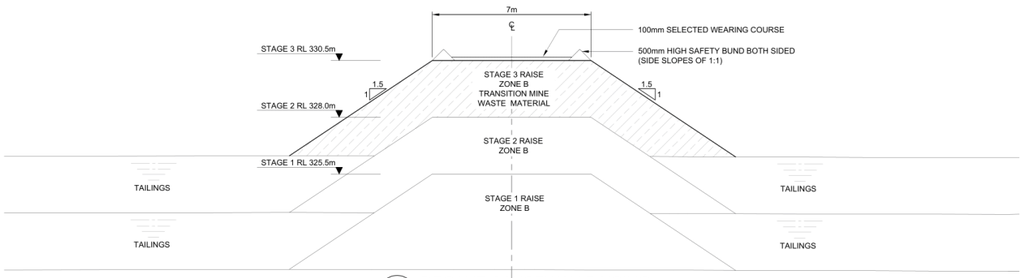
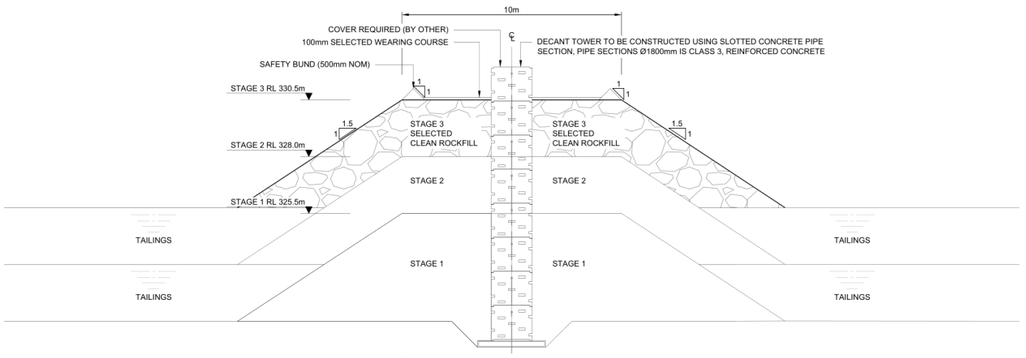


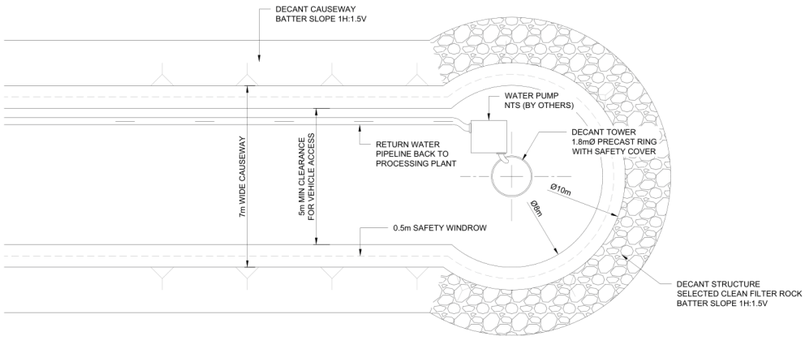
Figure 9: TSF1 Stage 3 embankment raise – cross-section



G 05 DECANT CAUSEWAY RAISING
SCALE 1:100 (TYPICAL SECTION)



H 05 DECANT STRUCTURE RAISING
SCALE 1:100 (TYPICAL SECTION)



DECANT STRUCTURE PLAN VIEW
SCALE 1:100 (TYPICAL PLAN)

NOTES:
1. -
2. -

2 0 2 4 6 8 10
SCALE 1:100

CONTOUR INTERVALS U.N.O.
EXISTING TOPOGRAPHY: 1m & 5m
DESIGN TOPOGRAPHY: 1m & 5m

COORDINATE SYSTEM
Map Grid of Australia Zone 51, using GDA94 datum

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			-	-	DATE:	05/02/2024
A	ISSUED FOR CLIENT REVIEW	05/02/2024	RG	SPB	SCALE:	1:100

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CLIENT: SILVER LAKE RESOURCES PTY LTD
PROJECT: MOUNT MONGER OPERATIONS TSF1 & TSF2 DESIGN
RANDALLS GOLD PROCESSING FACILITY
TITLE: SECTIONS & DETAILS (SHT4 OF 9)
PROJECT NO: 754-PERGE340046
DWG NO: 754-PERGE340046 - 07
REV: A

DWG: F:\PROJECTS\ OCT 2016 ONWARDS\Silver Lake Resources Ltd\754-PERGE340046_Mount Monger TSF1 & 2 Design\10. Drawings\00 - Drawings\07 SECTIONS & DETAILS (SHT4 OF 9).dwg

Figure 10: TSF1 Stage 3 embankment raise – decant tower and accessway

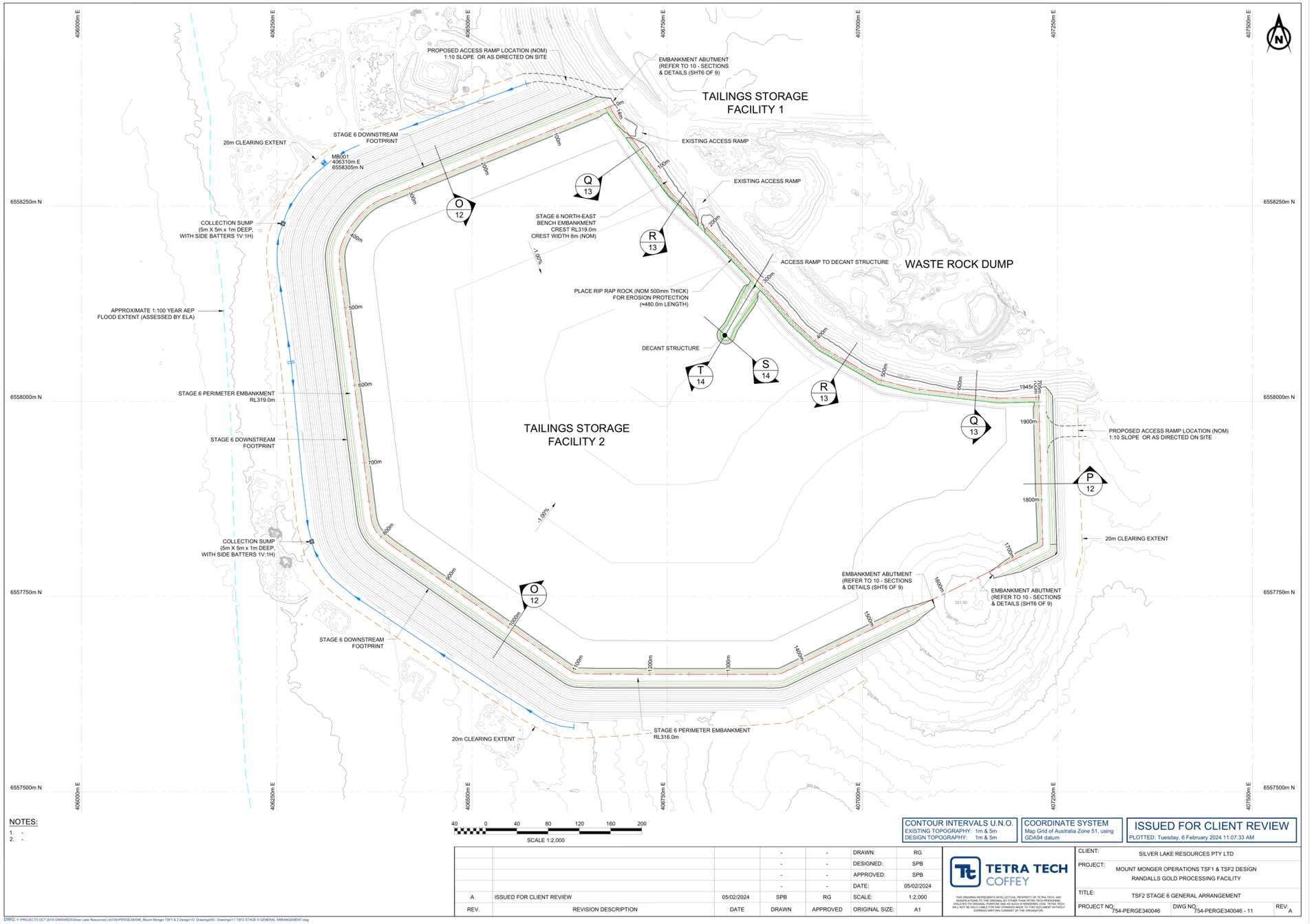


Figure 11: TSF2 Stage 6 embankment raise – general arrangement

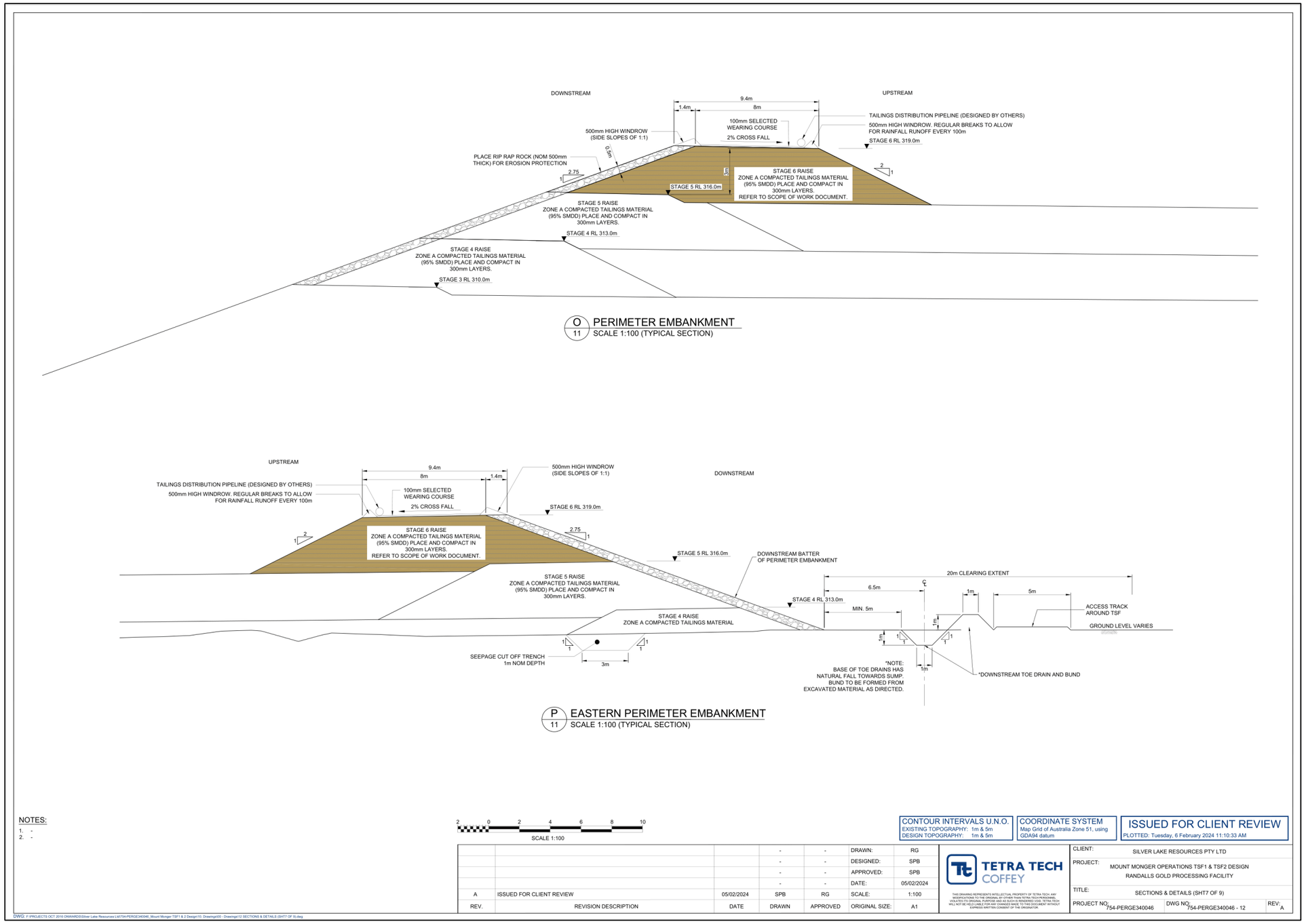


Figure 12: TSF2 Stage 6 embankment raise – cross-section

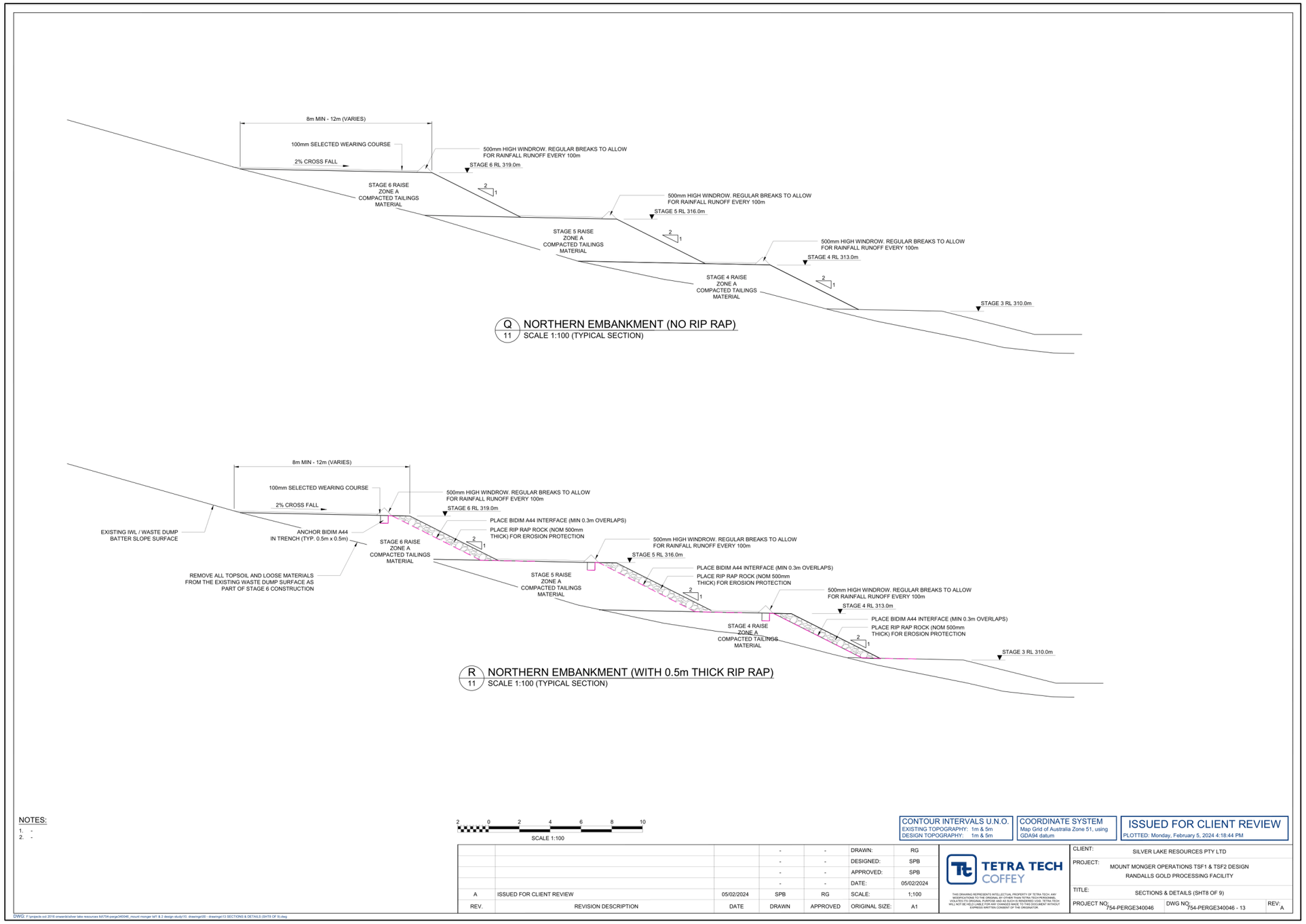
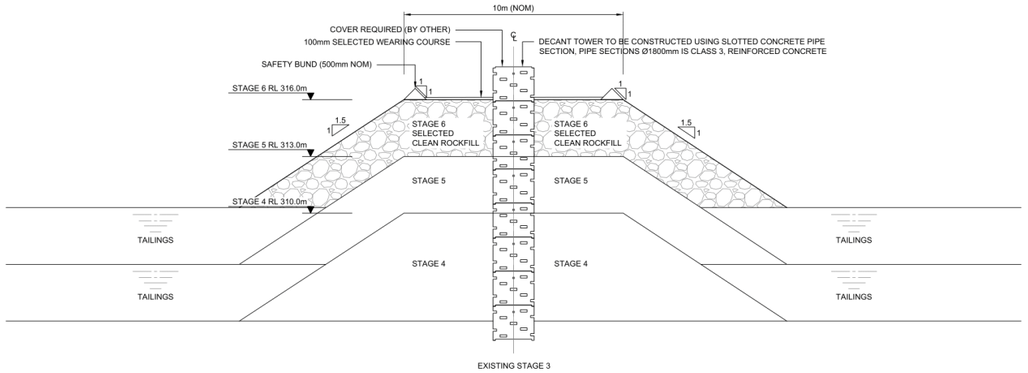
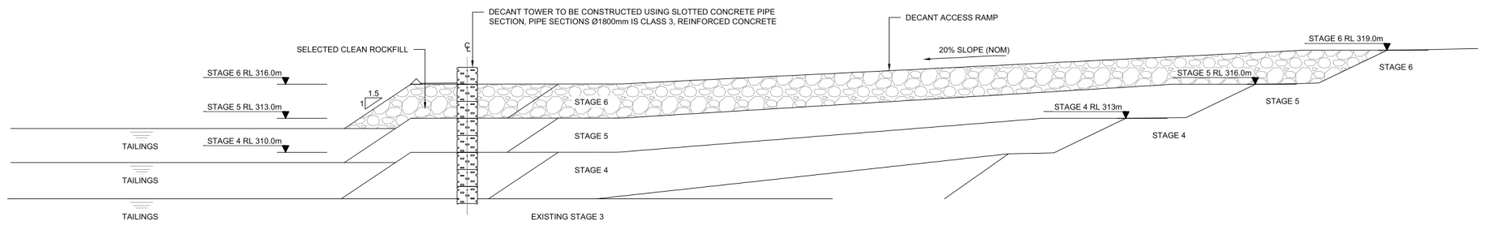


Figure 13: TSF2 Stage 6 embankment raise – cross section (northern embankment)



S 11 DECANT STRUCTURE
SCALE 1:100 (TYPICAL SECTION)



T 11 DECANT CAUSEWAY LONG SECTION
SCALE 1:200 (TYPICAL SECTION)

NOTES:
1. -
2. -

SCALE 1:100 (2 0 2 4 6 8 10)
SCALE 1:200 (4 0 4 8 12 16 20)

CONTOUR INTERVALS U.N.O.
EXISTING TOPOGRAPHY: 1m & 5m
DESIGN TOPOGRAPHY: 1m & 5m

COORDINATE SYSTEM
Map Grid of Australia Zone 51, using GDA94 datum

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			-	-	DATE:	05/02/2024
			-	-	APPROVED:	SPB
			-	-	DESIGNED:	SPB
			-	-	DRAWN:	RG

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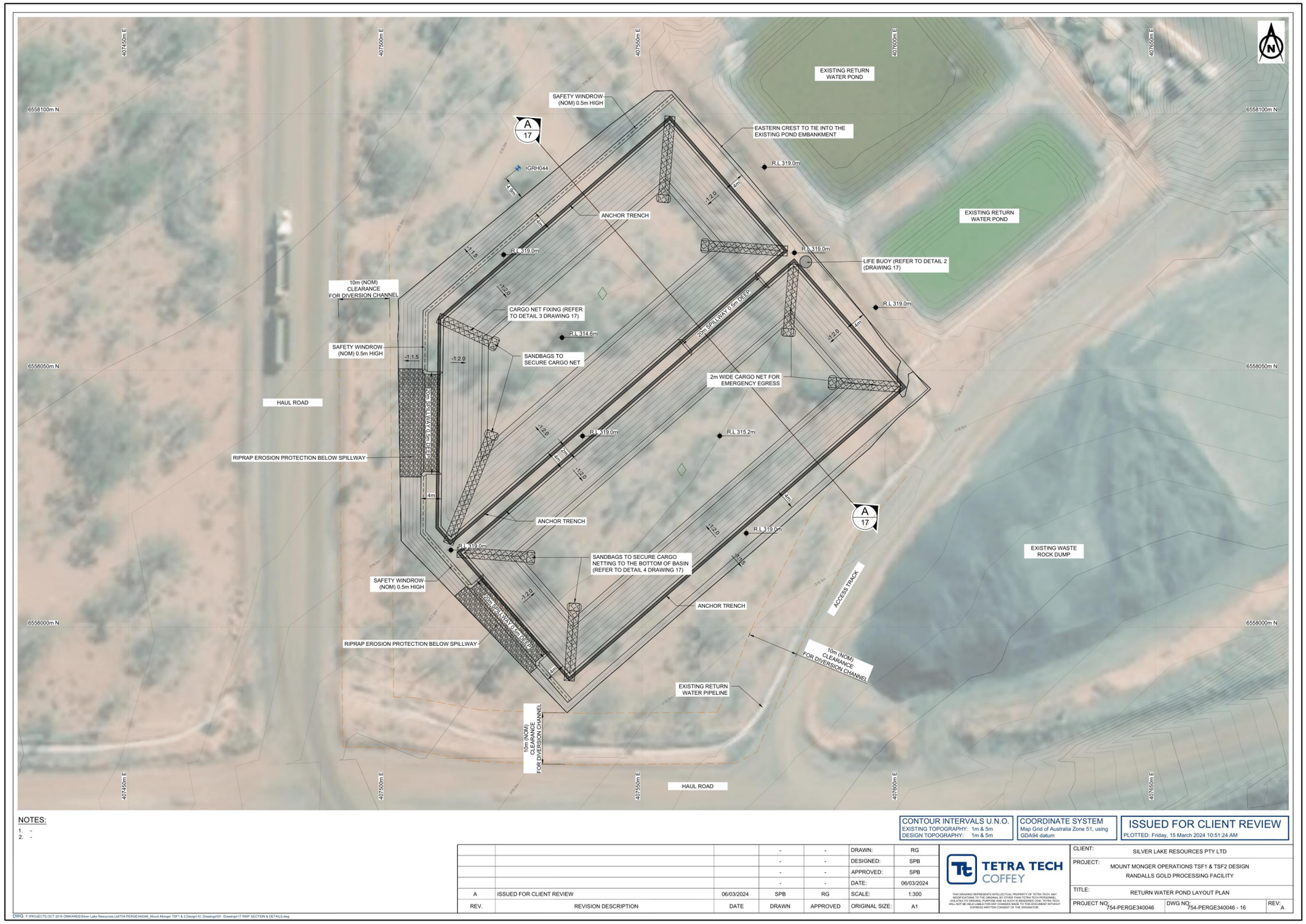
PROJECT: MOUNT MONGER OPERATIONS TSF1 & TSF2 DESIGN
RANDALLS GOLD PROCESSING FACILITY
TITLE: SECTIONS & DETAILS (SHT9 OF 9)
PROJECT NO: 754-PERGE340046
DWG NO: 754-PERGE340046 - 14
REV: A

DWG: F:\projects oct 2016 onwards\silver lake resources ltd\754-perge340046_mount monger tsf1 & 2 design study\10. drawings\00 - drawings\14 SECTIONS & DETAILS (SHT9 OF 9).dwg

Figure 14: TSF2 Stage 6 embankment raise – decant tower and accessway



NOTES:
1. -
2. -

CONTOUR INTERVALS U.N.O.
EXISTING TOPOGRAPHY: 1m & 5m
DESIGN TOPOGRAPHY: 1m & 5m

COORDINATE SYSTEM
Map Grid of Australia Zone 51, using GDA94 datum

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REV.	REVISION DESCRIPTION	DATE	DRAWN	APPROVED	ORIGINAL SIZE:	A1
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			-	-	APPROVED:	SPB
			-	-	DESIGNED:	SPB
			-	-	DRAWN:	RG

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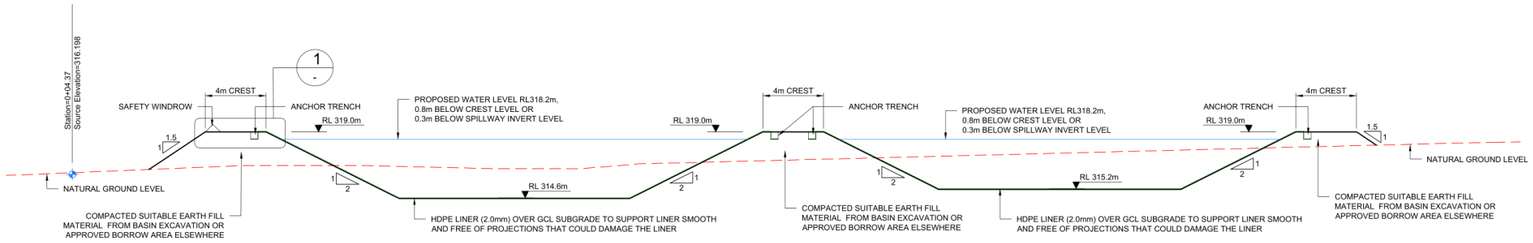
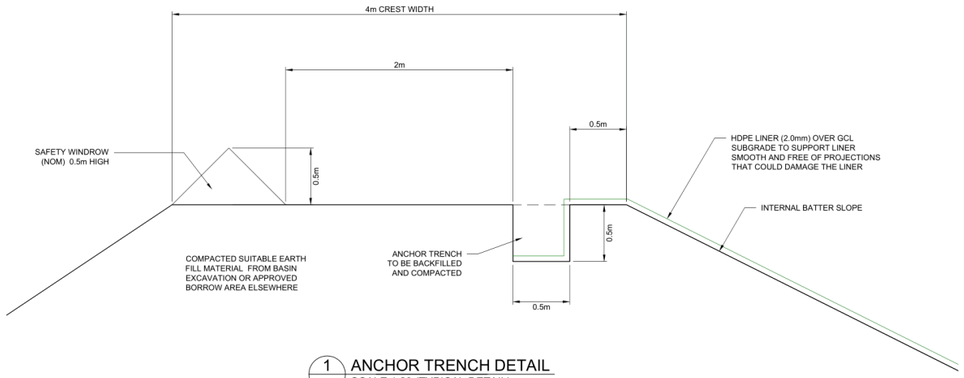
CLIENT: SILVER LAKE RESOURCES PTY LTD
PROJECT: MOUNT MONGER OPERATIONS TSF1 & TSF2 DESIGN
RANDALLS GOLD PROCESSING FACILITY
TITLE: RETURN WATER POND LAYOUT PLAN
PROJECT NO: 754-PERGE340046
DWG NO: 754-PERGE340046 - 16
REV: A

DWG: F:\PROJECTS OCT 2016 ONWARDS\Silver Lake Resources Ltd\754-PERGE340046_Mount Monger TSF1 & 2 Design\10 - Drawings\00 - Drawings\17 RWP SECTION & DETAILS.dwg

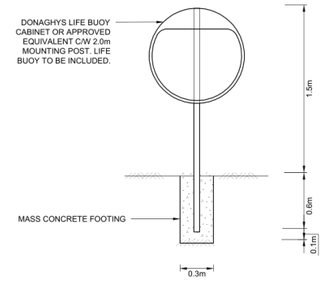
Figure 15: Return water ponds – general arrangement



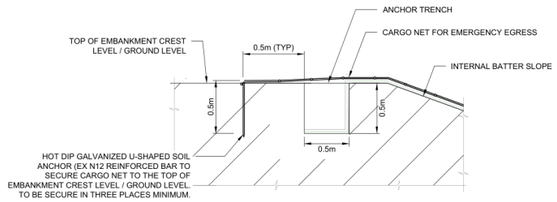
A 16 RETURN WATER POND CROSS SECTION
SCALE 1:150



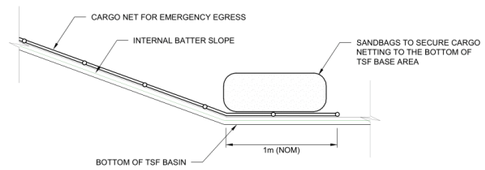
1 - ANCHOR TRENCH DETAIL
SCALE 1:20 (TYPICAL DETAIL)



2 16 TYPICAL BUOY DETAIL
SCALE 1:20



3 16 TYPICAL CARGO NET FIXING DETAIL
SCALE 1:20 (TYPICAL DETAIL)



4 16 TYPICAL BASE OF CARGO NET
SCALE 1:20

NOTES:
1. -
2. -

COORDINATE SYSTEM
Map Grid of Australia Zone 51, using GDA94 datum

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			-	-	DESIGNED: SPB
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			-	-	DATE: 06/03/2024
A	ISSUED FOR CLIENT REVIEW	06/03/2024	SPB	RG	SCALE: 1:300

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RANDALLS GOLD PROCESSING FACILITY
TITLE: RETURN WATER POND LAYOUT PLAN
PROJECT NO: 754-PERGE340046
DWG NO: 754-PERGE340046 - 17
REV: A

DWG: F:\PROJECTS\ OCT 2016\ ONWARDS\Silver Lake Resources Ltd\754-PERGE340046_Mount Monger TSF1 & 2 Design\10. Drawings\00 - Drawings\17 RWP SECTION & DETAILS.dwg

Figure 16: Return water ponds – cross-section