

### **Mountain Ash Limited Partnership Summit Pit**

SLR Project No: 212.06650.00006 April 2021





#### Mining and Excavation Plan

Mountain Ash Limited Partnership Rocky View County, Alberta SLR Project No: 212.06650.00006

Prepared by: SLR Consulting (Canada) Ltd. 200 – 708 11th Ave SW Calgary, Alberta, T2R 0ER

for

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This document has been prepared by SLR Canada. The material and data in this report were prepared under the supervision and direction of the undersigned.

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# **1.0 INTRODUCTION**

Mountain Ash Limited Partnership (Mountain Ash) is planning to develop the Summit Pit (the Project) along Highway 567 within NW and SW 31-026-03 W5M, northeast of the Town of Cochrane, in Rocky View County (RVC), Alberta (Figure 1). The Project will encompass approximately 208 acres (84 ha) excluding existing road rights-of-way. Mountain Ash is applying for Phase 1 of a six-phase mining plan. This land is currently owned by 1410266 Alberta Ltd. (a general partner of Mountain Ash). Summit Pit received land use and a master site development plan (MSDP) approval on March 2, 2021 (Land Use Bylaw C-8051-2020).

# 2.0 MINING ACTIVITIES

Mining activities shall include the production and manufacturing of crushed and screened aggregates for use all construction applications.

The portion of the pit site being developed (Phase 1) will be cleared and grubbed, and the area from which materials are to be taken will be stripped of overburden as provided in Section 3. Sufficient space will be provided as required for the setup and operation of the field-testing facilities at the site of crushing as well as all setbacks implemented as per Bylaw C-8051-2020. Visual screening barriers will be constructed as part of the Phase 3 development permit. All setback distances as outlined and approved by RVC as contemplated in the Summit Pit Master Site Development Plan will be adhered to throughout all mining activities.

# 3.0 PRODUCTION

All oversize stones, rock fragments, or boulders occurring in the source, up to and including those measuring 18 inches in the greatest dimension, shall be utilized in the manufacture of crushed material. Scalping shall be performed after the pit-run or quarry-run material has passed through the primary crusher. When scalping over a screen of a specified size is required in the Special Provisions, the scalping screen shall be of such size and capacity that enough of the fine material will be removed to produce aggregate materials that conform to any given construction or material specification.

Both fine and coarse concrete aggregates shall be properly screened or crushed remove clay, loam, alkali, bark, sticks, organic castings, or other deleterious matter. When producing screened gravel or sand materials, all oversize material will be removed by screening at the crusher location.

Upon completion of the operation, the pit will be cleared of all rubbish, temporary structures, and equipment. The pit will be reclaimed in accordance with the approved site reclamation plan specified. Phases will be progressively reclaimed; total disturbance shall be limited to 40 acres at any one given time. The objective with reclamation is to reduce asset retirement obligations as new phases are developed. For example, phase 1 reclamation will occur as phase 2 is being developed and so on.

# 4.0 QUANTITIES

Phase	Surface Area	Gross Mining Volume	Rejects (@15%)	Net Mining Volume	Net Mining Tonnes (@ 1.85t/m³)	Average Gravel Thickness	Average Depth of Stripping and Mining
1	138,958 m²	2,204,893 m³	330,734 m³	1,874,159 m³	3,748,317 t	15.87 m	18.64 m
2	151,950 m²	1,785,947 m³	267,892 m³	1,518,055 m³	3,036,110 t	11.75 m	15.52 m
3	152,053 m²	1,824,259 m³	273,639 m³	1,550,620 m <sup>3</sup>	3,101,240 t	12.00 m	17.36 m
4	116,958 m²	1,199,659 m³	179,949 m³	1,019,710 m <sup>3</sup>	2,039,420 t	10.26 m	14.09 m
5	159,617 m²	2,577,396 m <sup>3</sup>	386,609 m³	2,190,787 m <sup>3</sup>	4,381,573 t	16.15 m	19.22 m
6	84,179 m²	930,902 m³	139,635 m³	791,266 m <sup>3</sup>	1,582,533 t	11.06 m	15.47 m
Total	803,715 m²	10,523,054 m³	1,578,458 m³	8,944,596 m³	17,889,192 t	13.09 m	16.93 m

 Table 1
 Quantities of Minerals per Phase

### 5.0 STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR for Mountain Ash Limited Partnership., hereafter referred to as the "Client". The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. It is intended for the sole and exclusive use of the Client. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of SLR.

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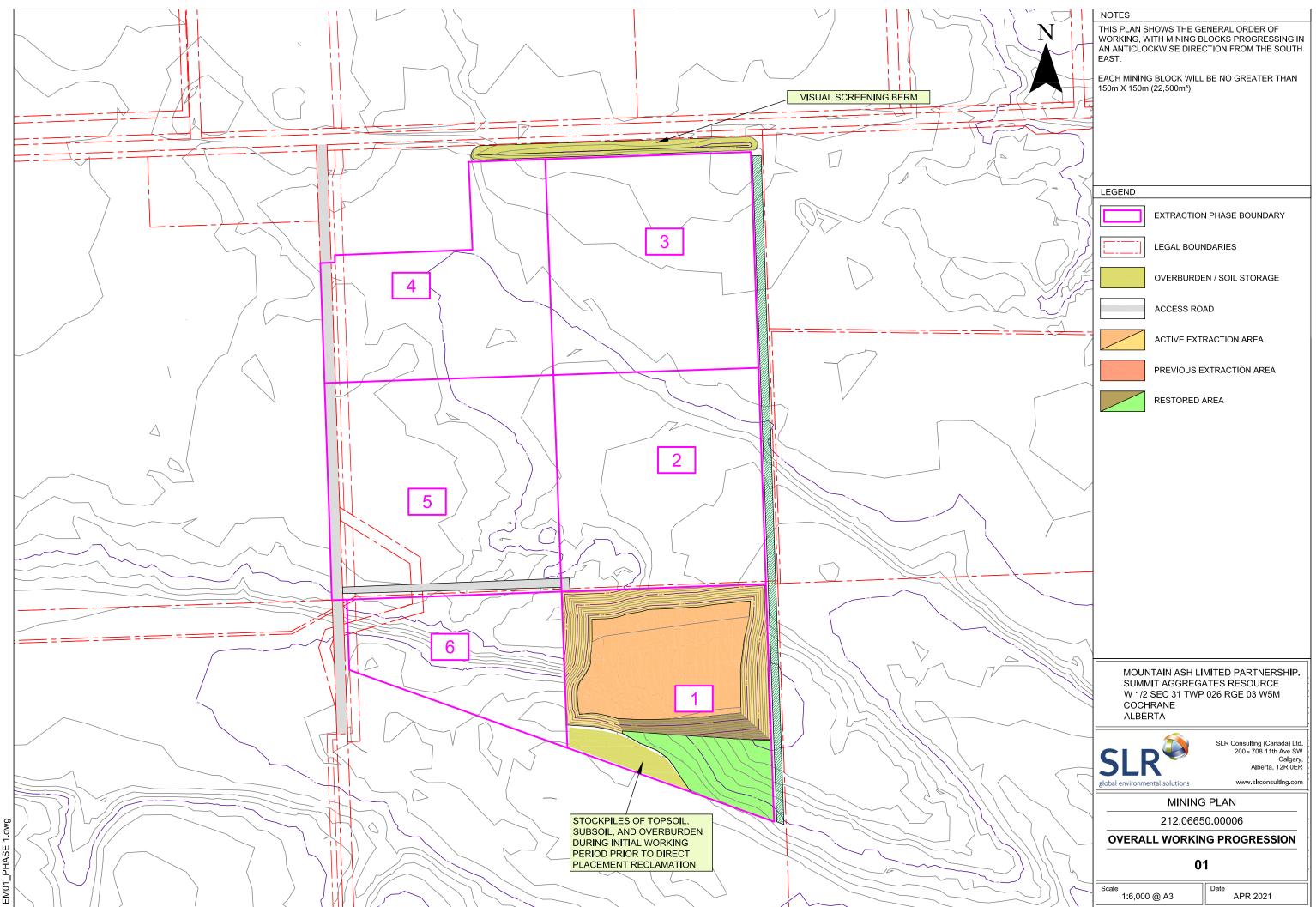
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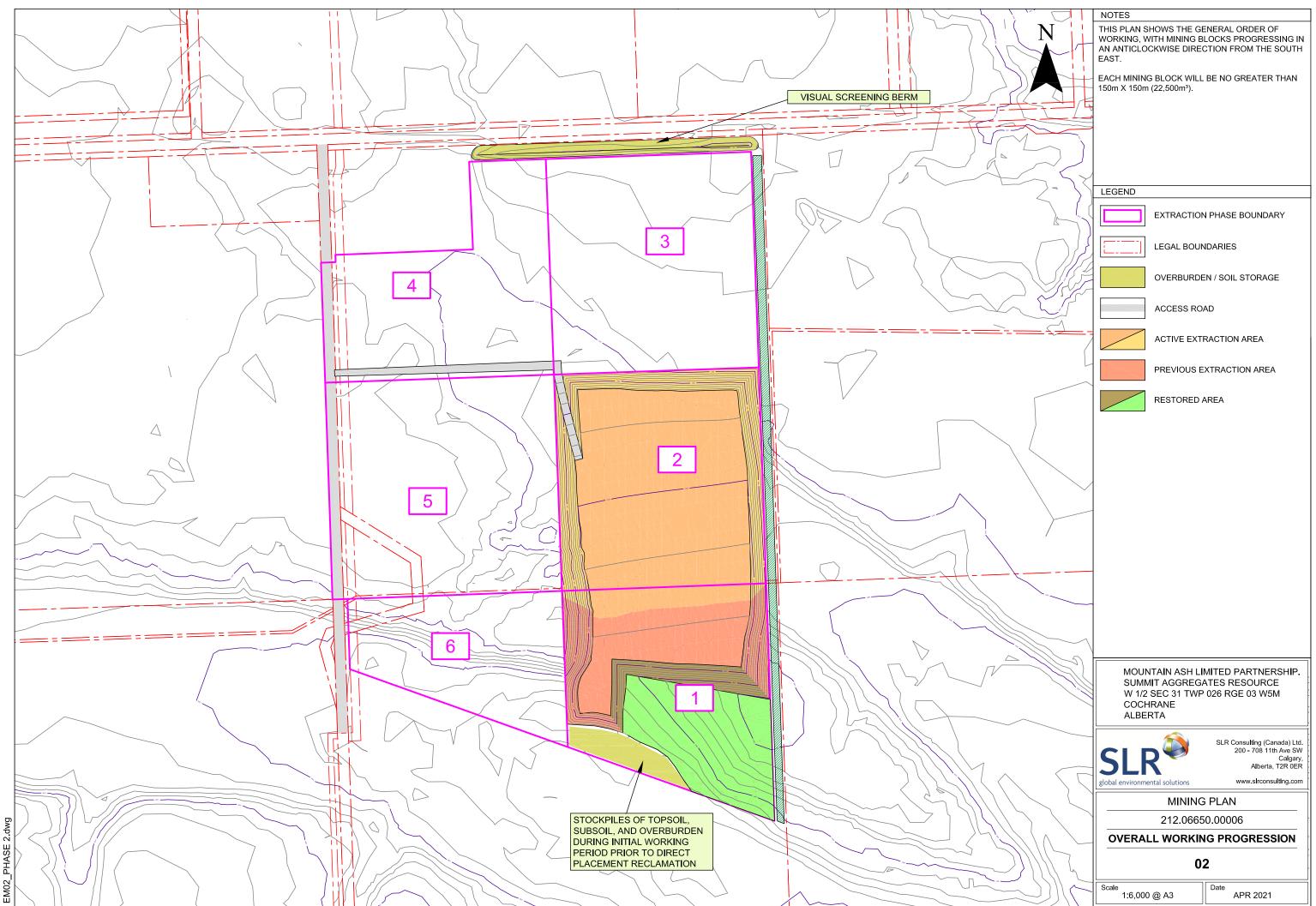
### **Stripping and Grading Plan**

Mountain Ash Limited Partnership Summit Pit SLR Project No: 212.06650.00006

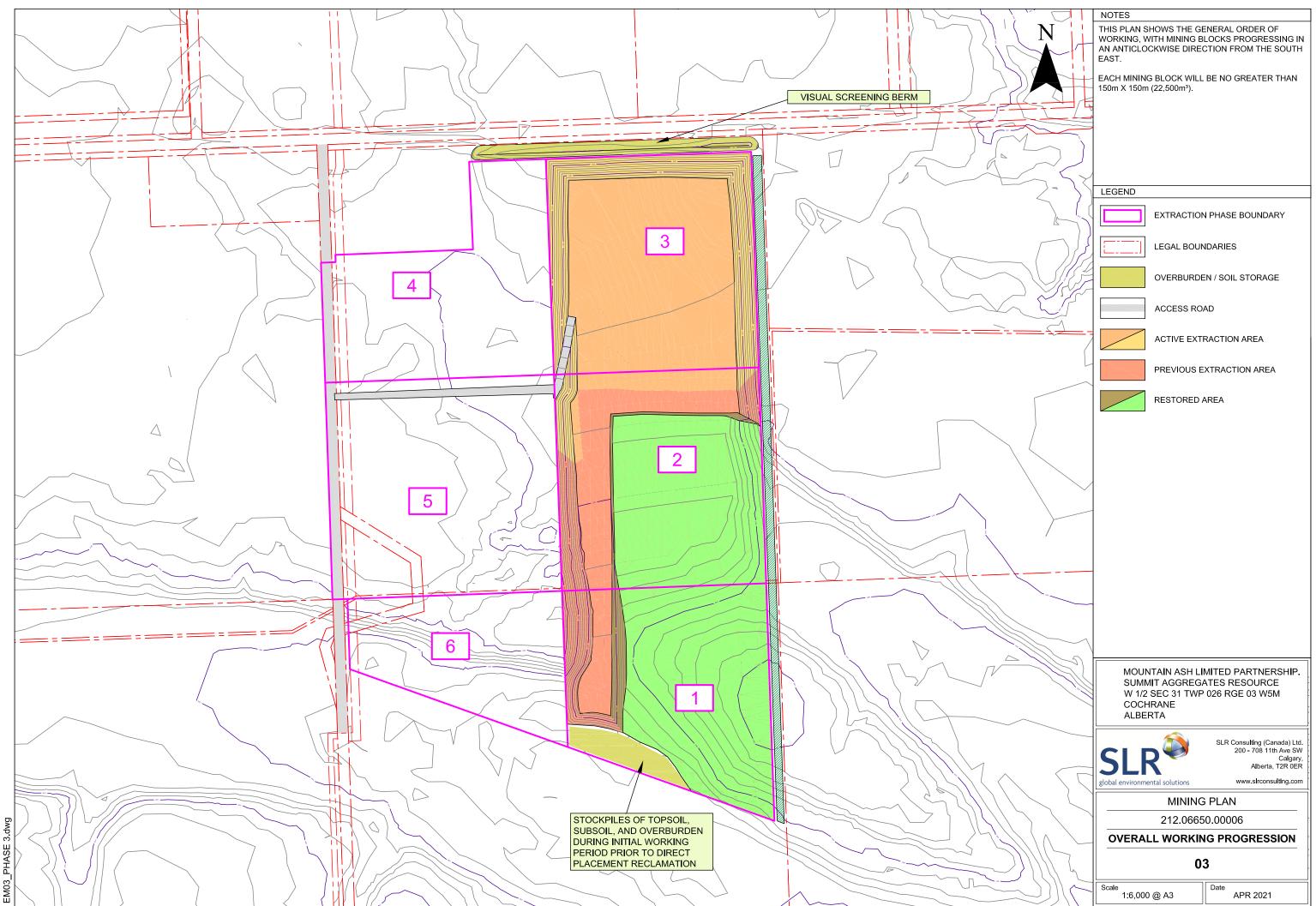




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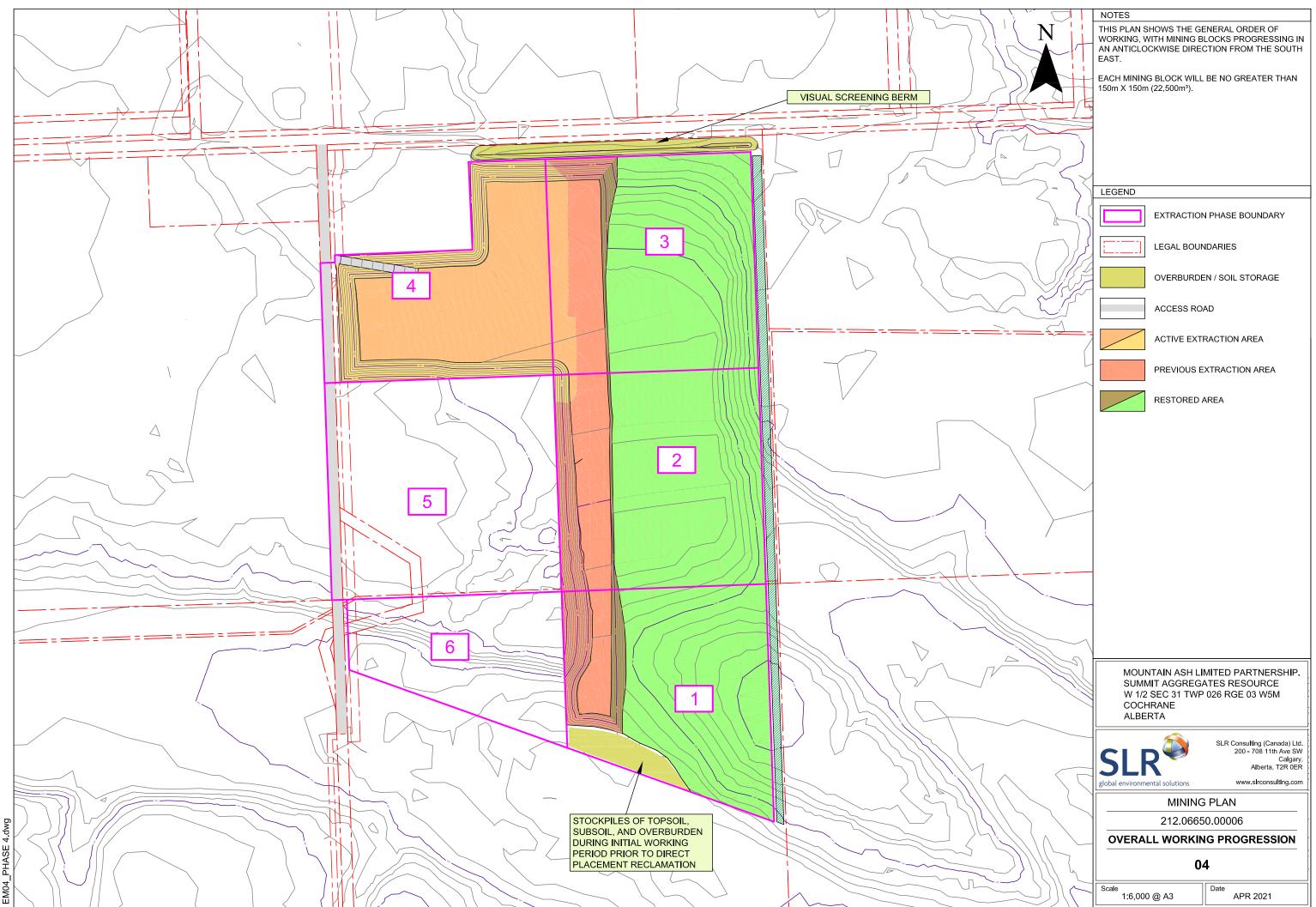


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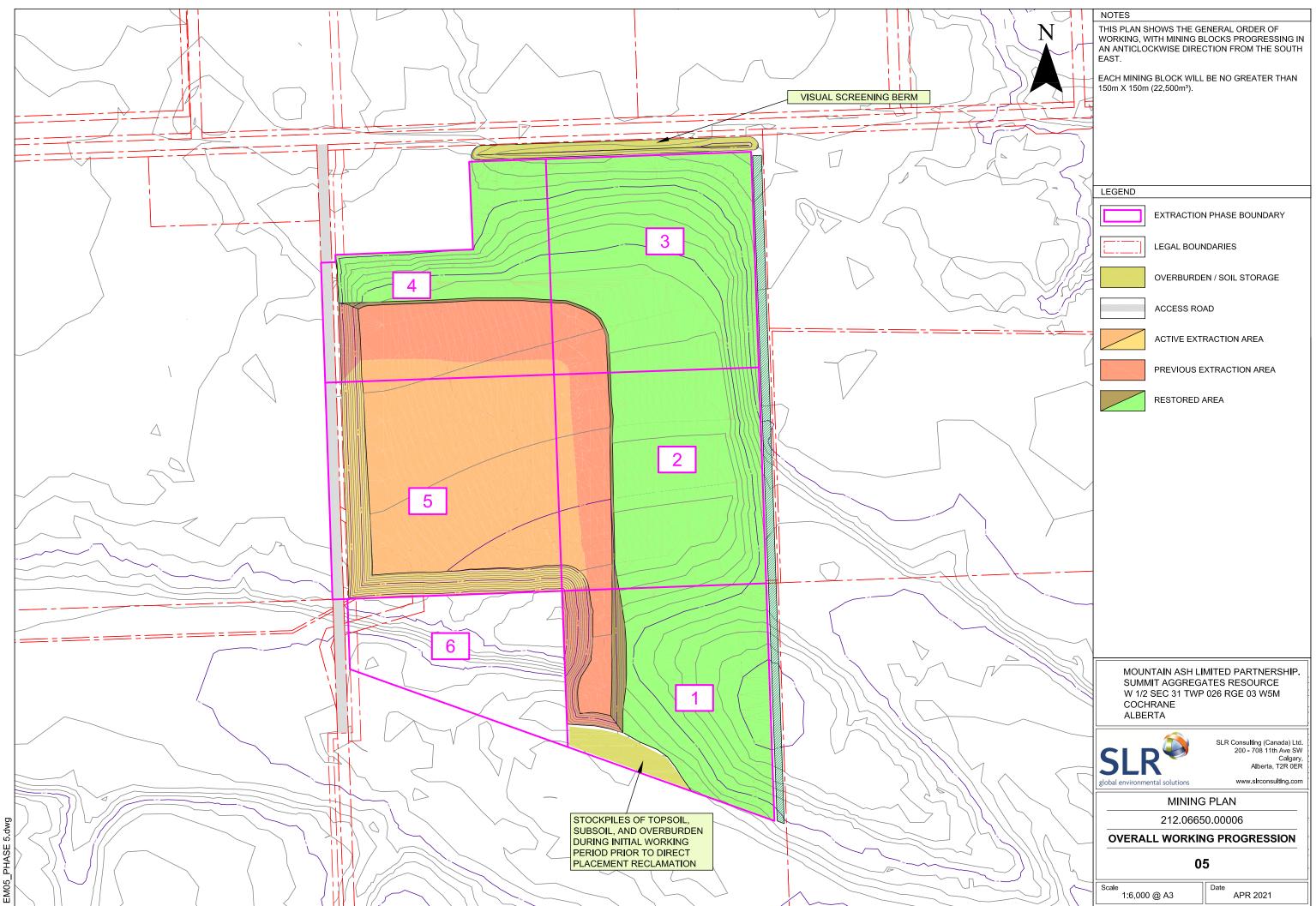
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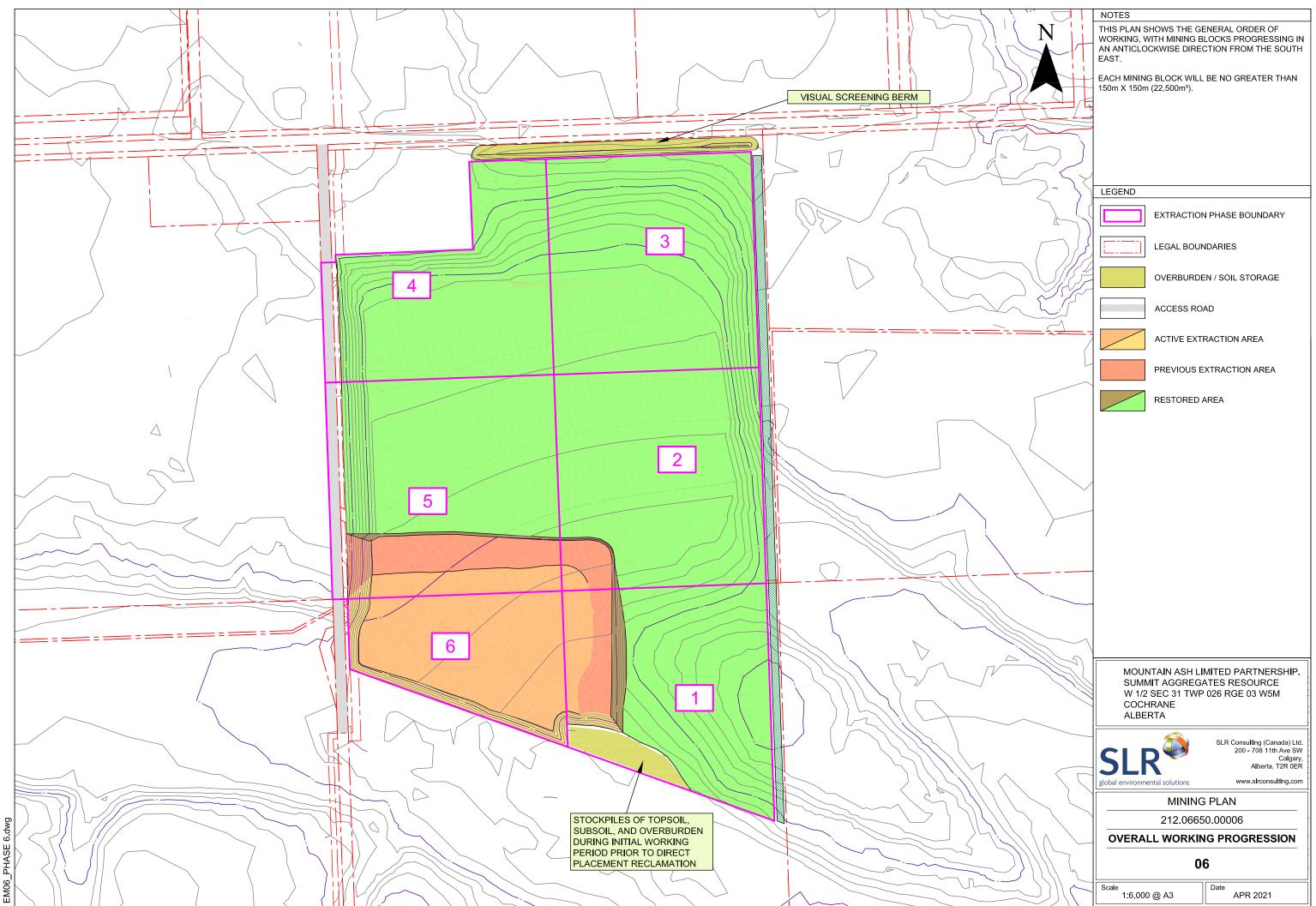
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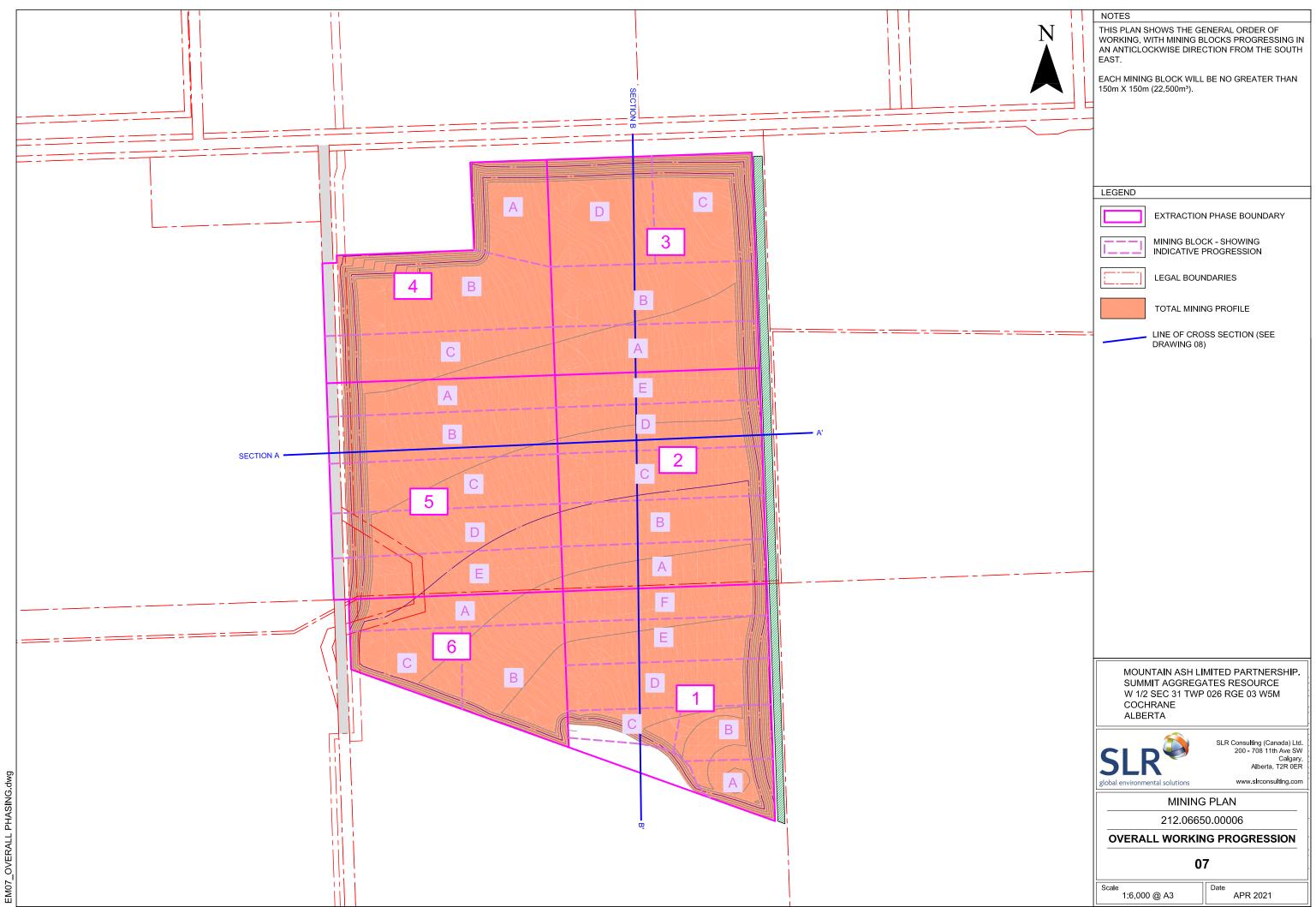


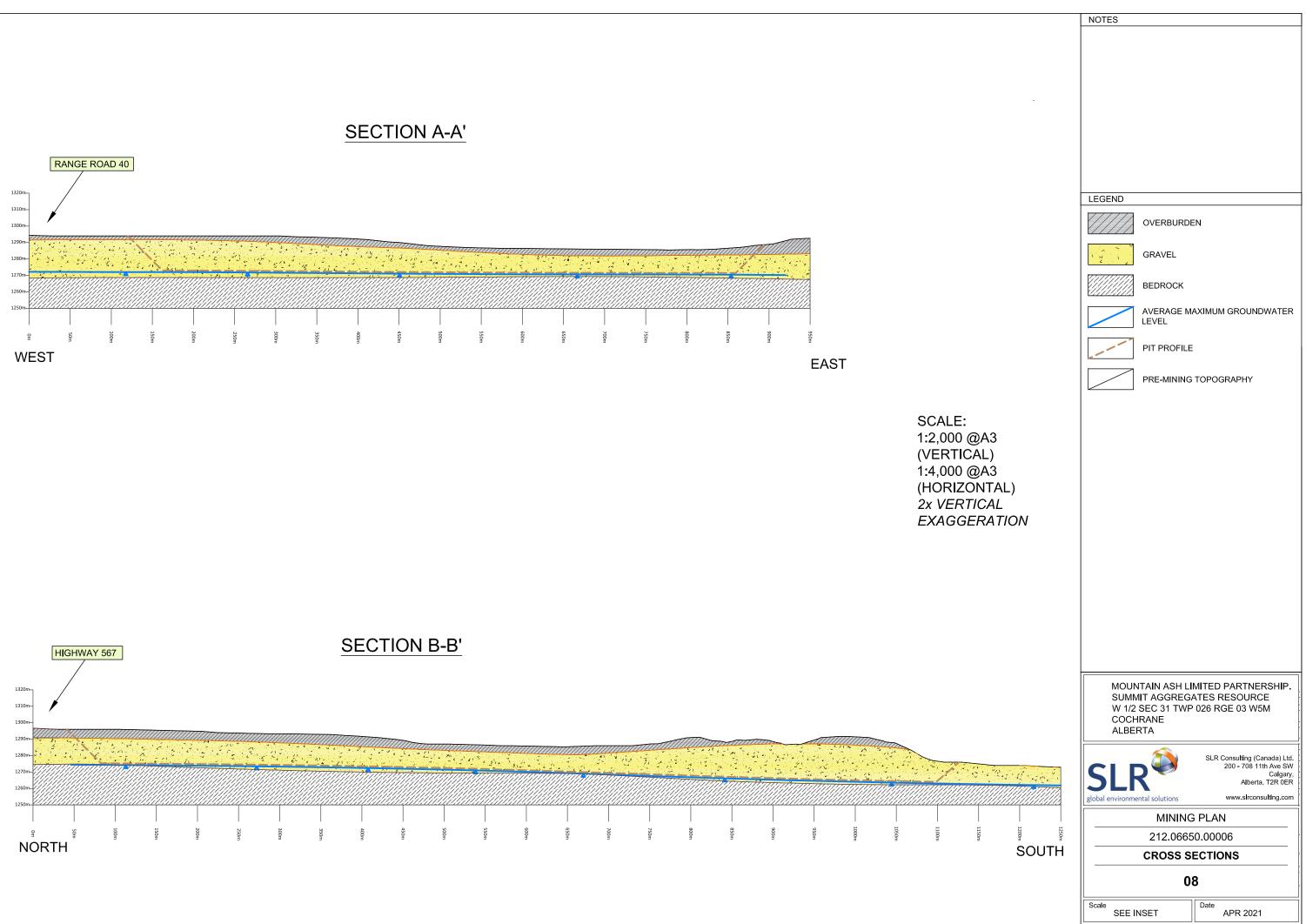
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