## APPENDIX A - MAPS, PHOTOGRAPHS AND DESIGNS

**APPENDIX A1 - MAPS** 

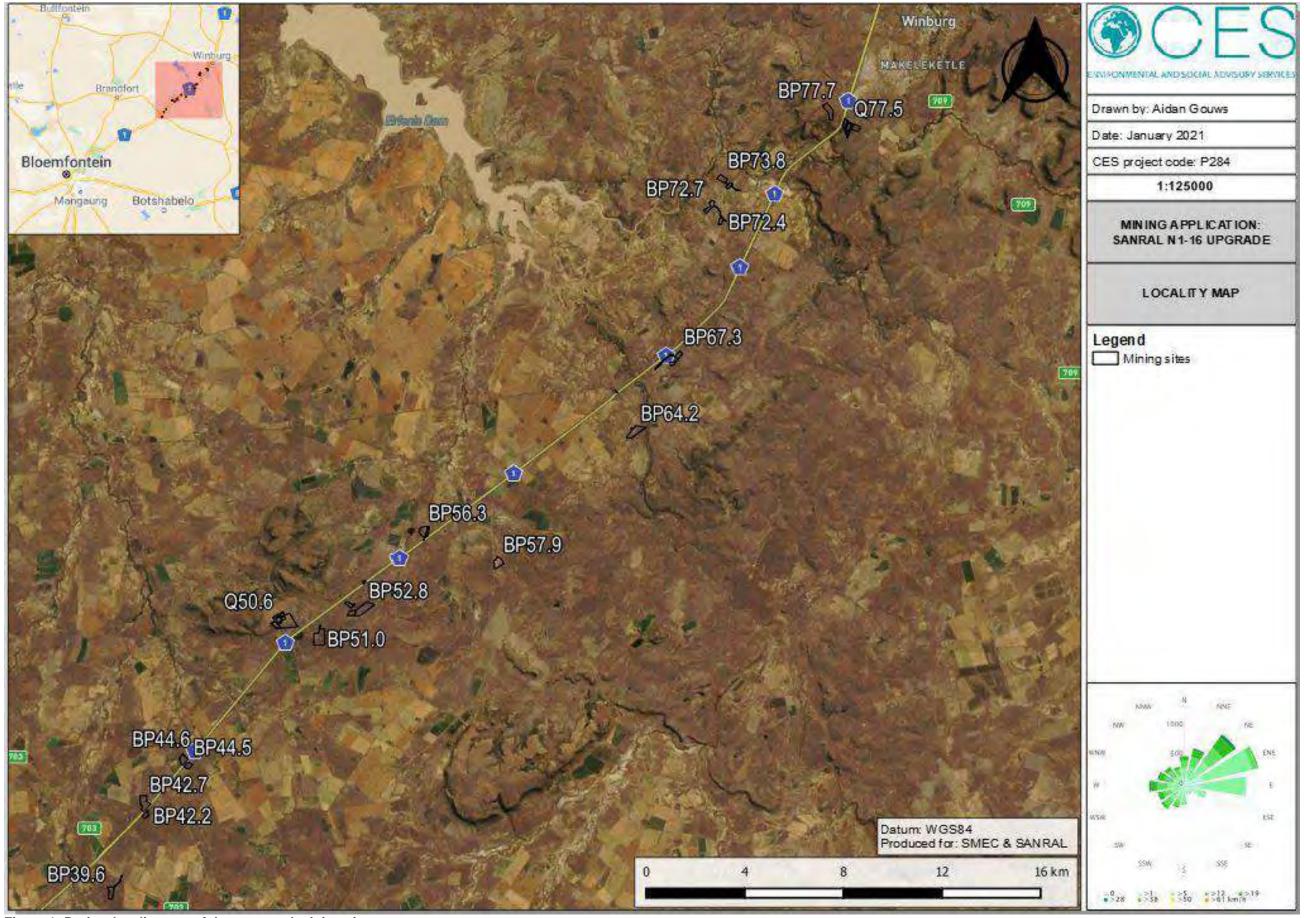


Figure 1: Project locality map of the proposed mining sites.

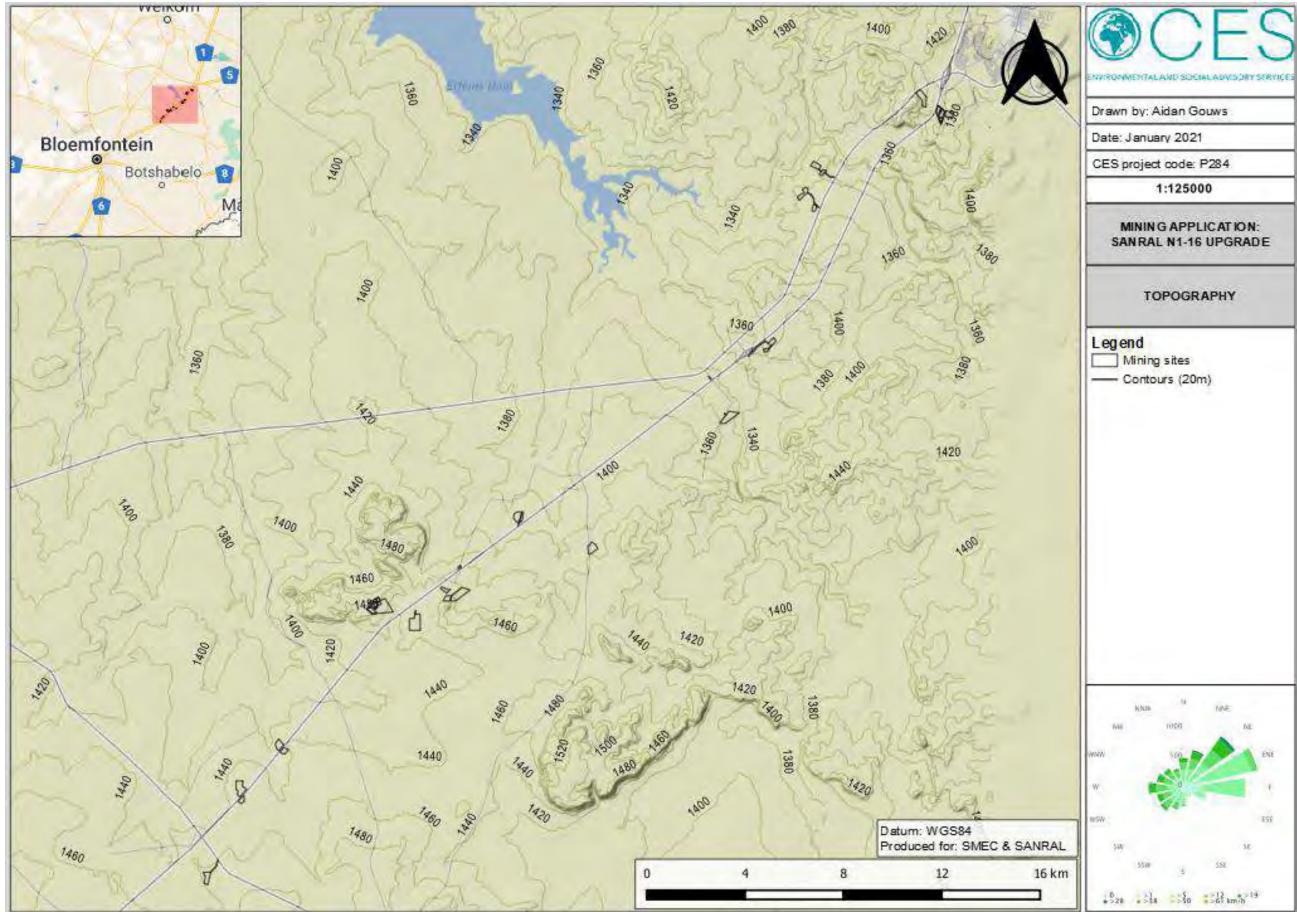


Figure 2: Topographical map of the proposed mining sites.

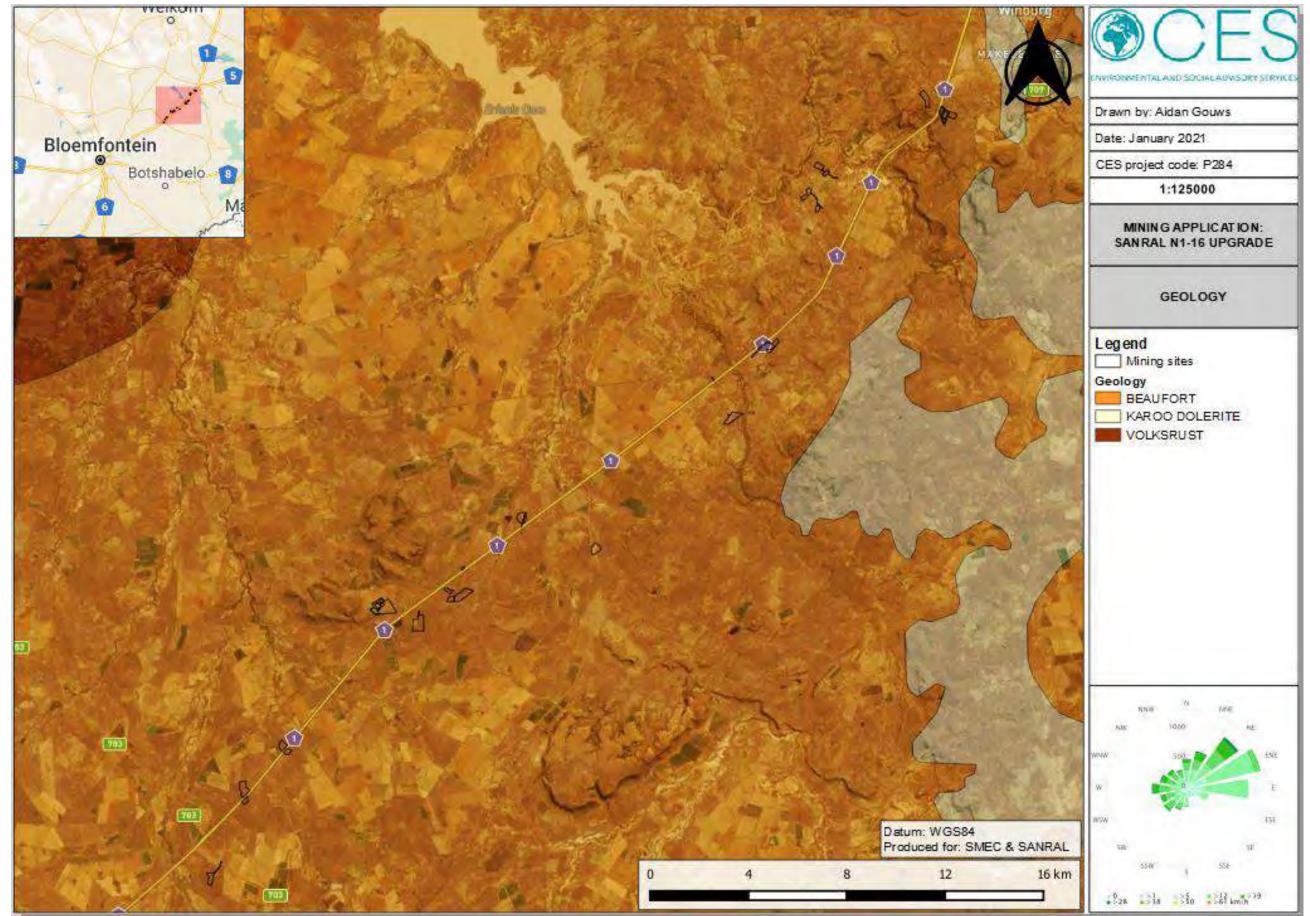


Figure 3: Geological map of the proposed mining sites.

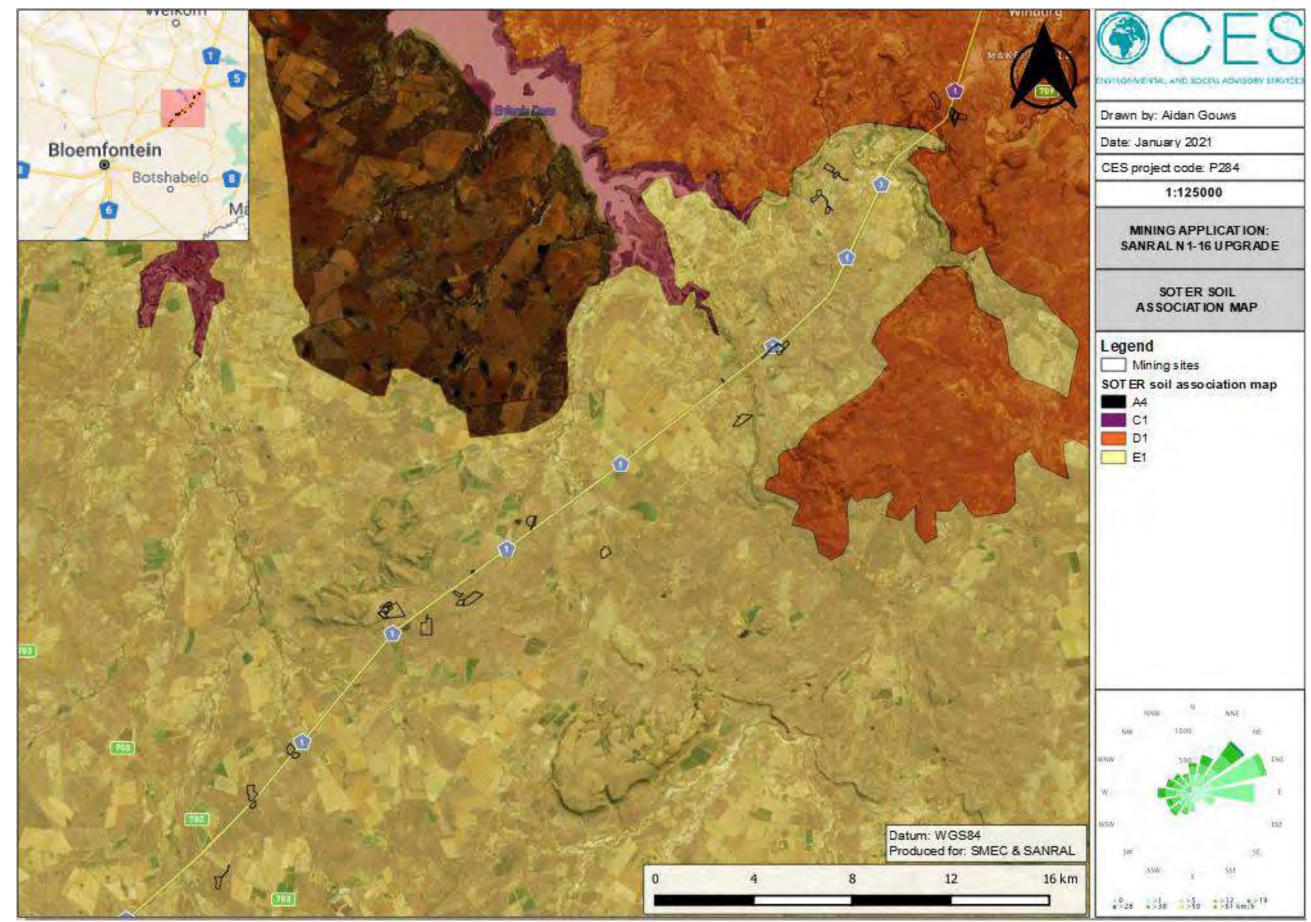


Figure 4: SOTER soil association map of the proposed mining sites.

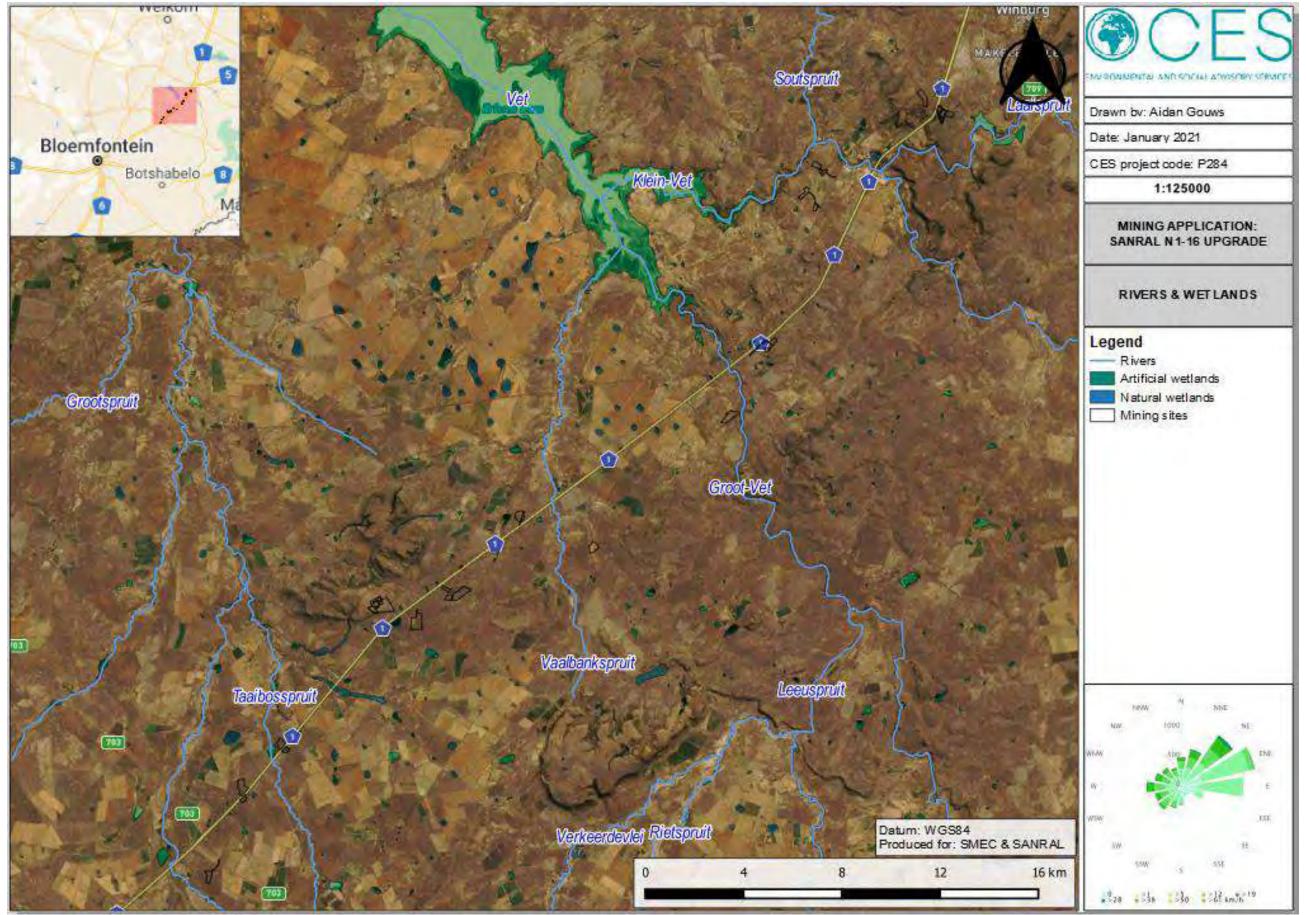


Figure 5: Wetland Types, Rivers and Drainage Lines map of the proposed mining sites.

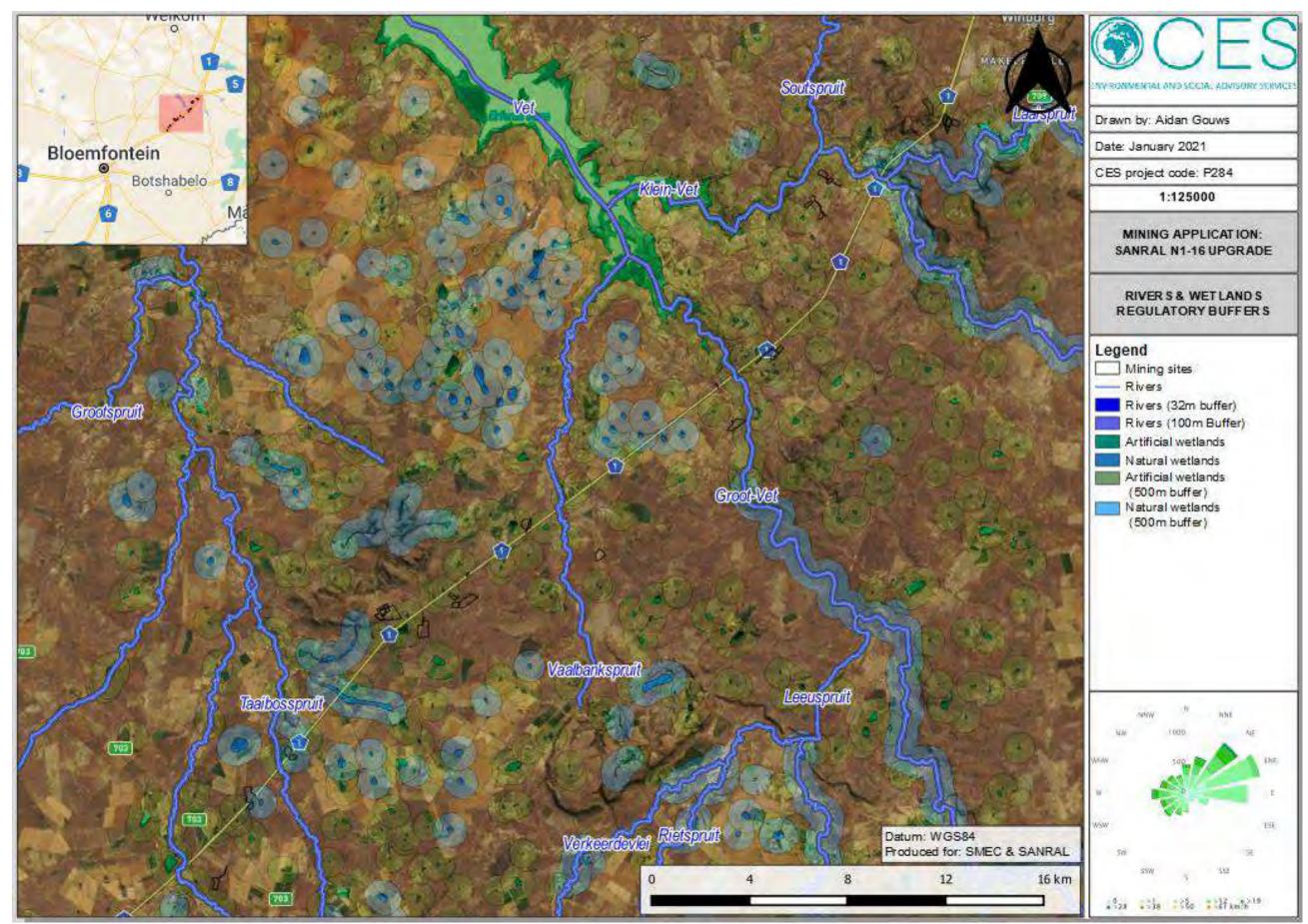


Figure 6: Wetland Types, Rivers and Drainage Lines, including regulatory buffers as per NEMA and NWA.

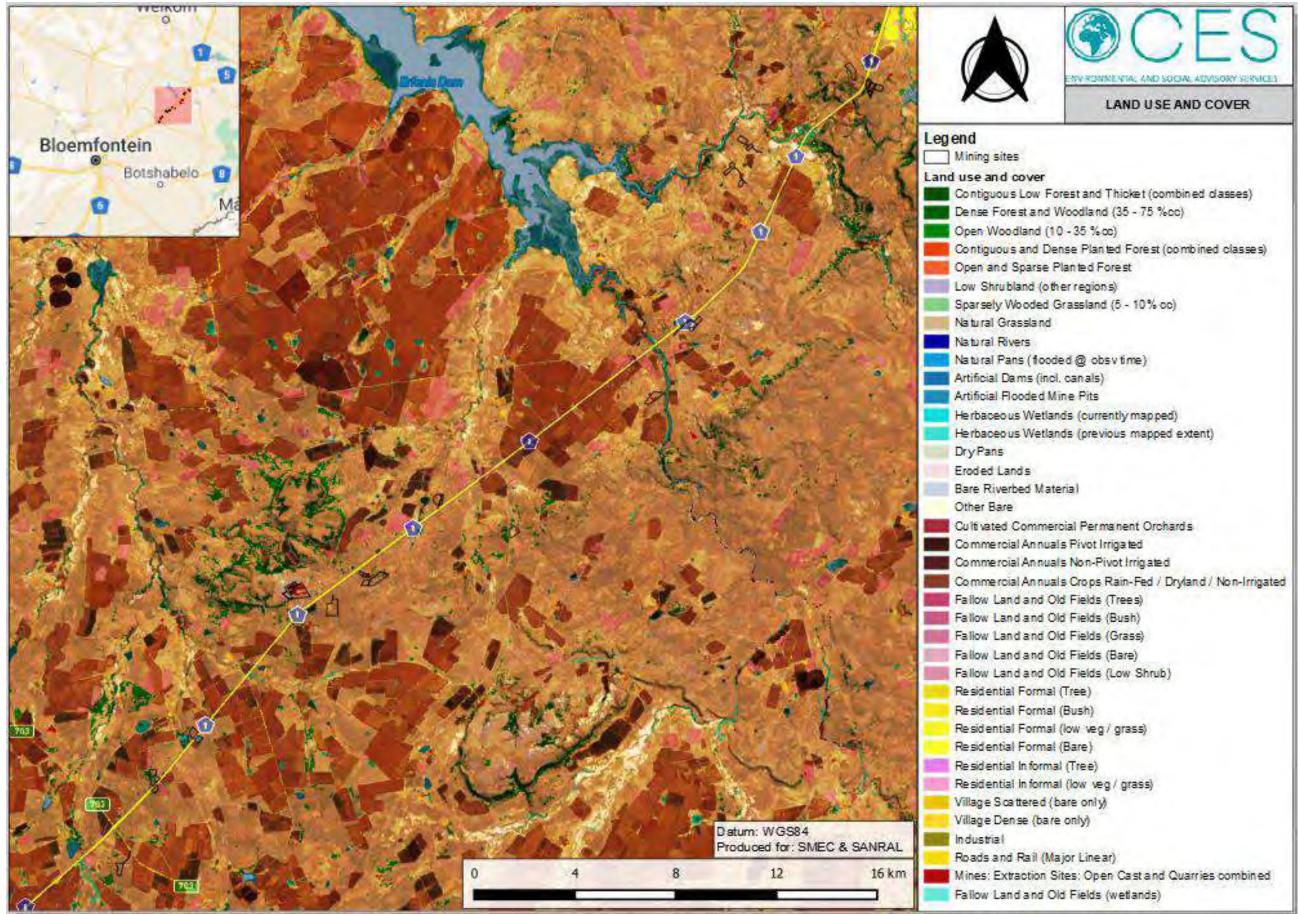


Figure 7: Land cover map of the proposed borrow pits and quarry sites.

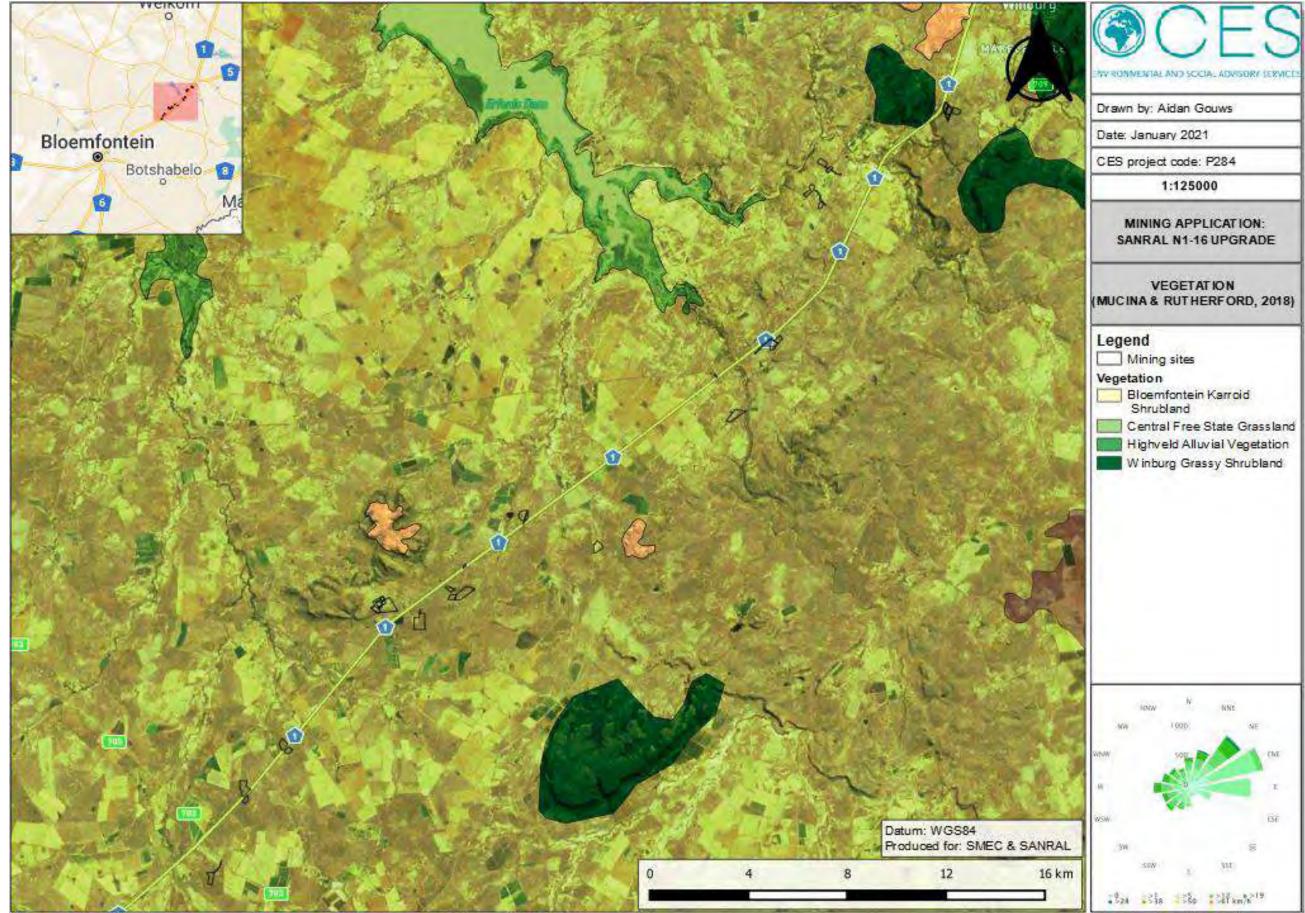


Figure 8: Mucina & Rutherford Vegetation map of the proposed mining sites.

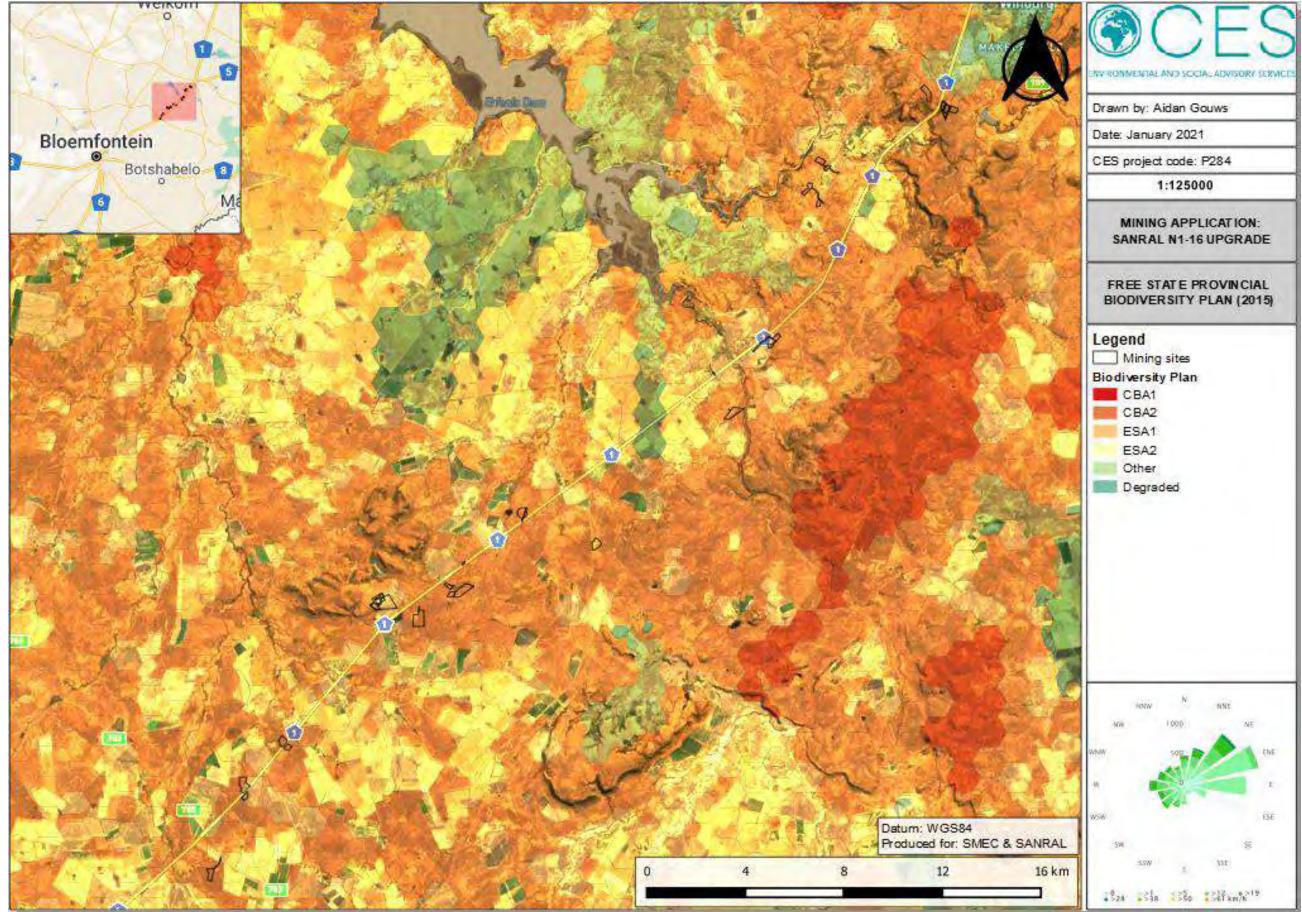


Figure 9: Free State Terrestrial Critical Biodiversity Areas (2015) map of the proposed mining sites.

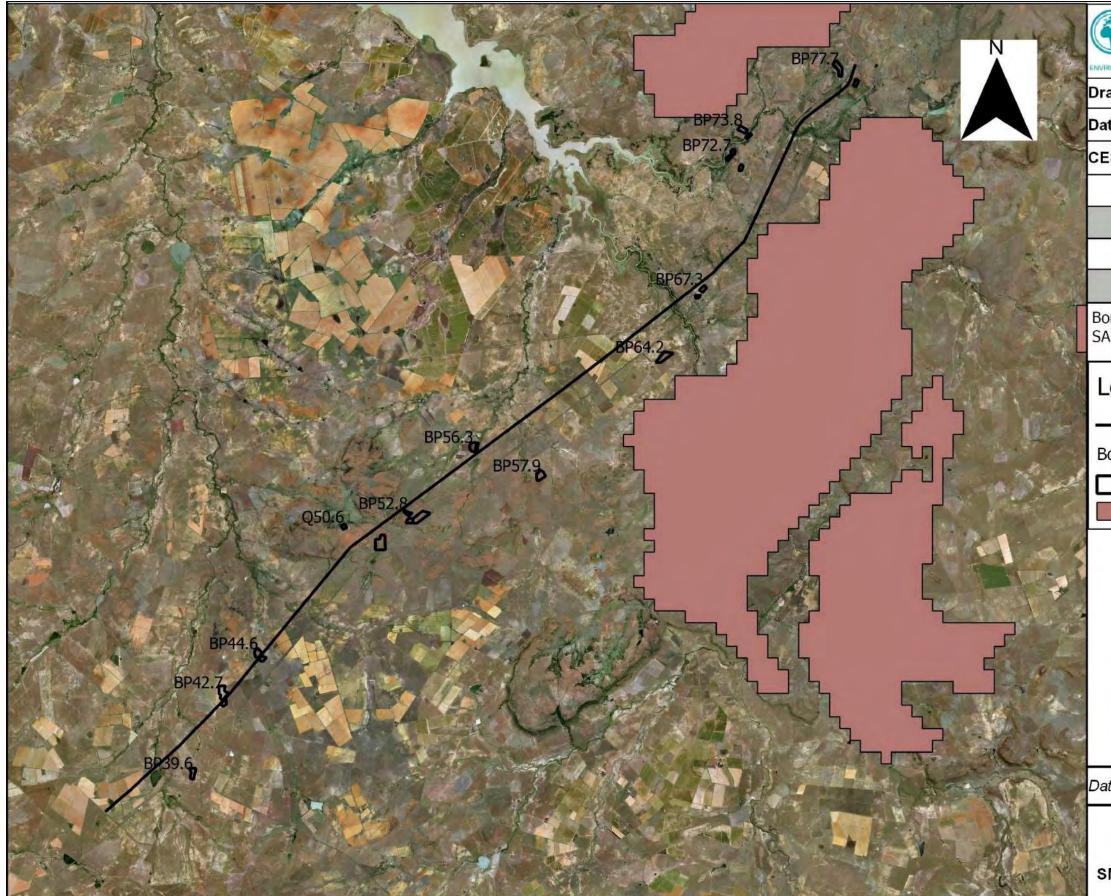


Figure 10: NPAES Focus Areas surrounding the proposed mining sites.

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MEC on behalf of SANRAL

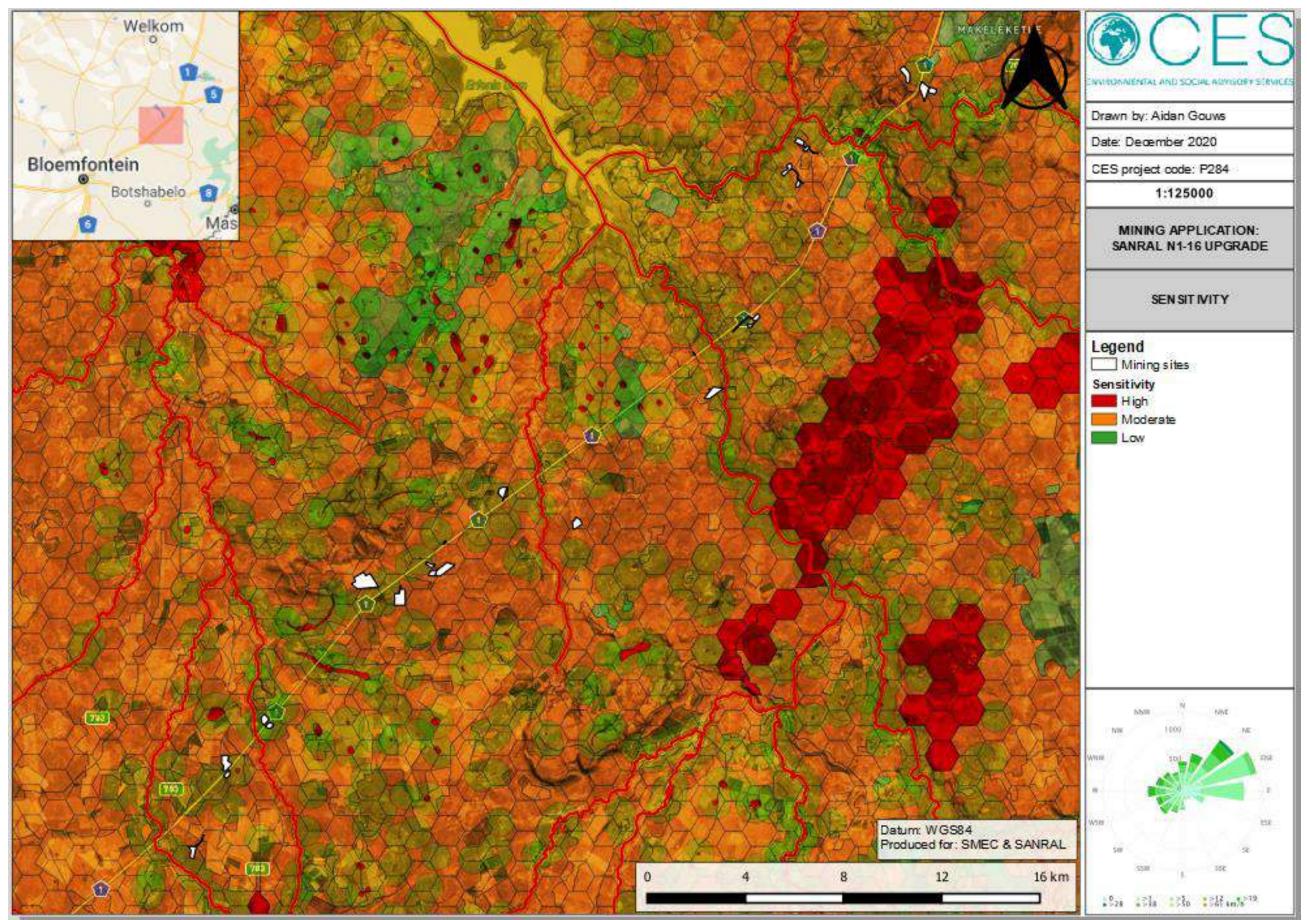


Figure 11: Sensitivities map of the proposed mining sites.

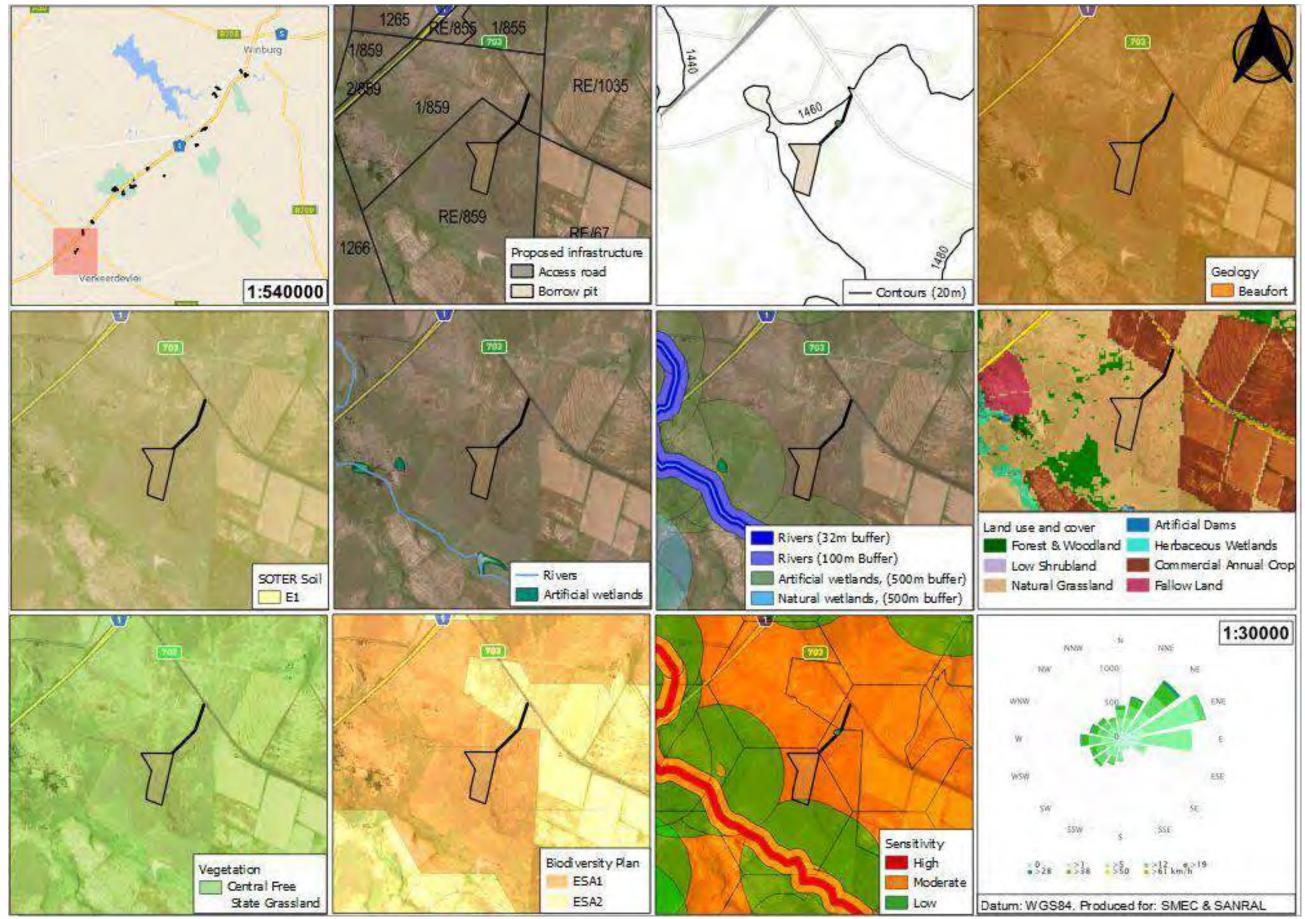


Figure 12: Site summary maps of proposed borrow pit 39.6.

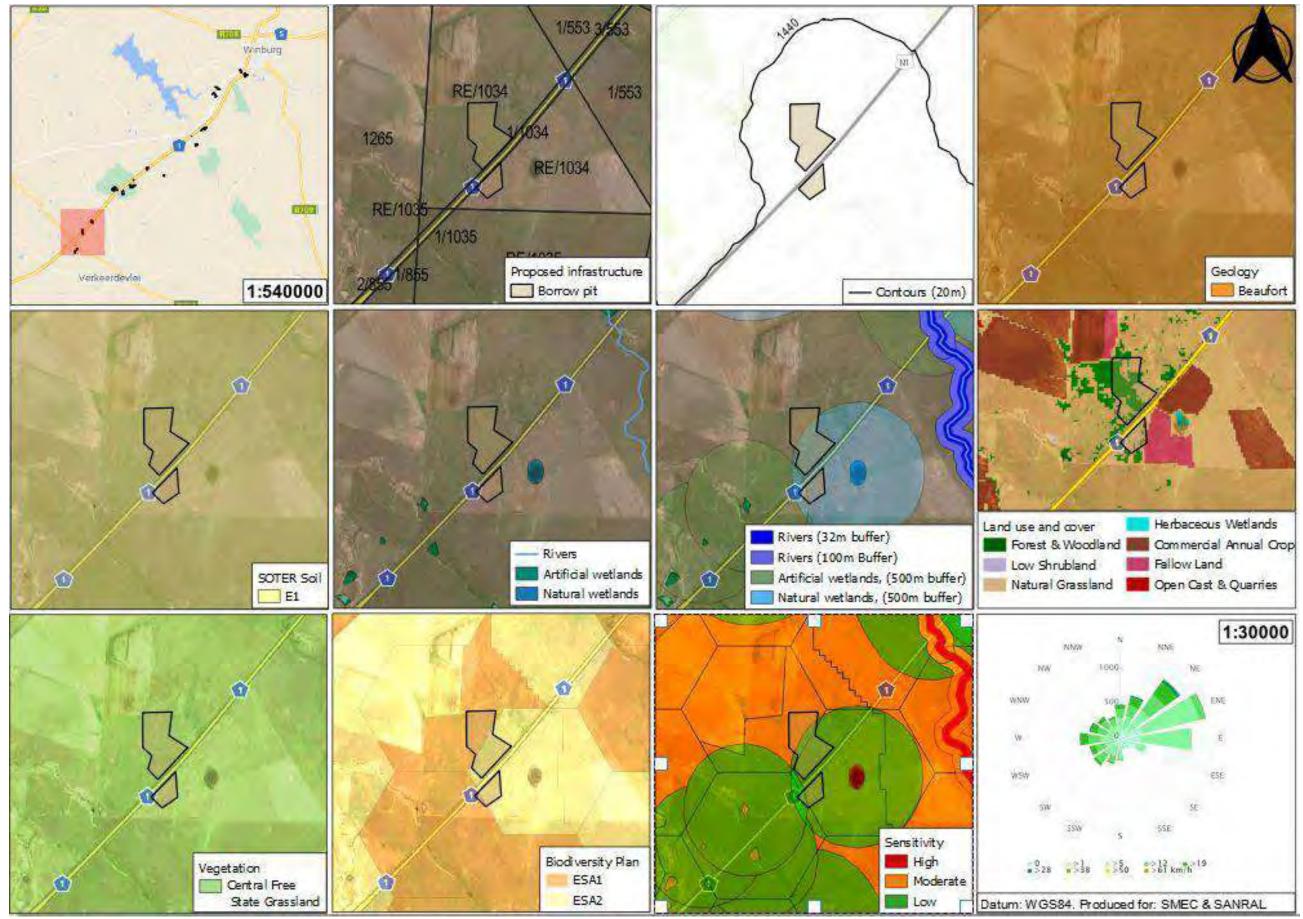


Figure 13: Site summary maps of proposed borrow pits 42.2 and 42.7.

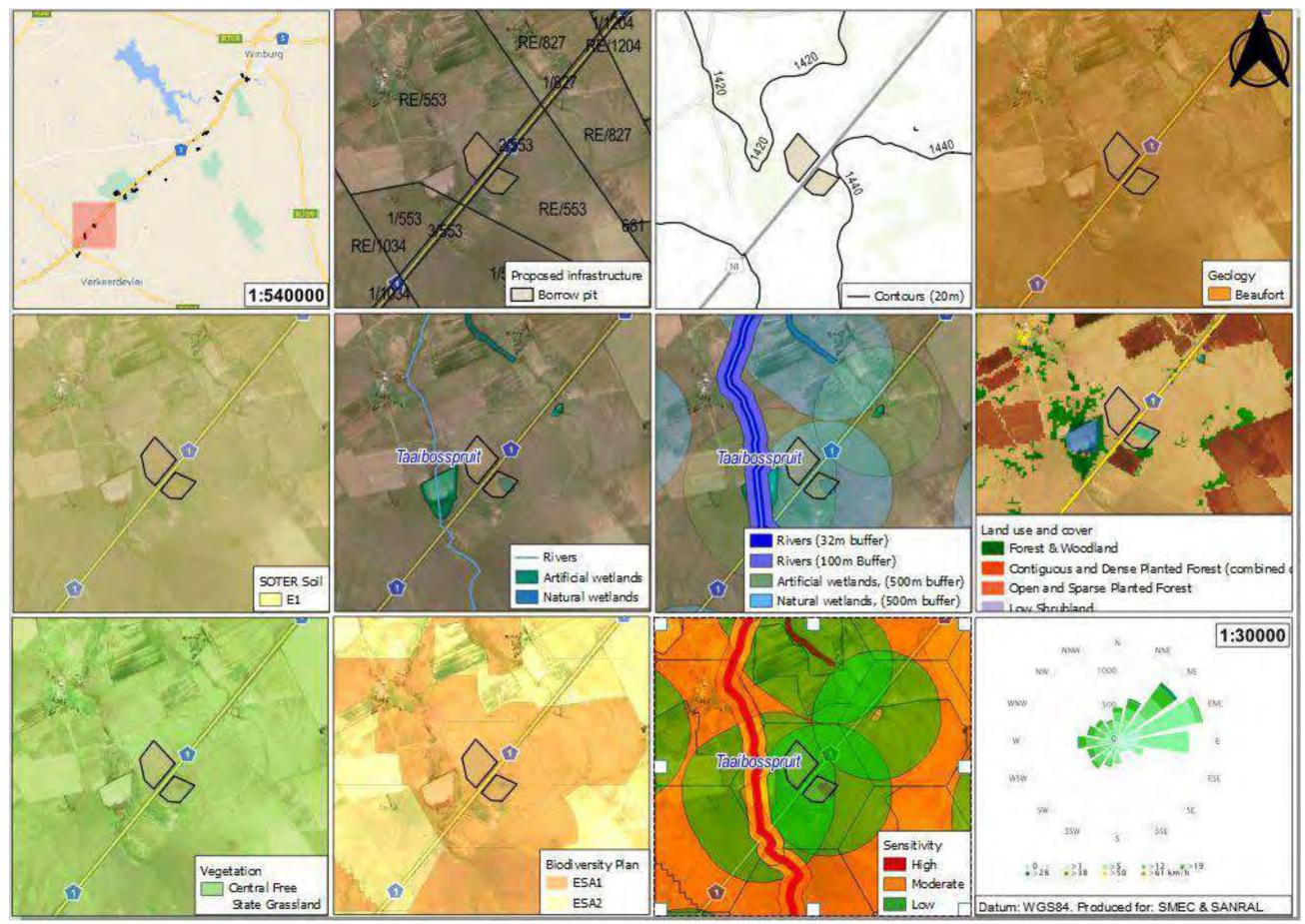


Figure 14: Site summary maps of proposed borrow pits 44.5 and 44.6.

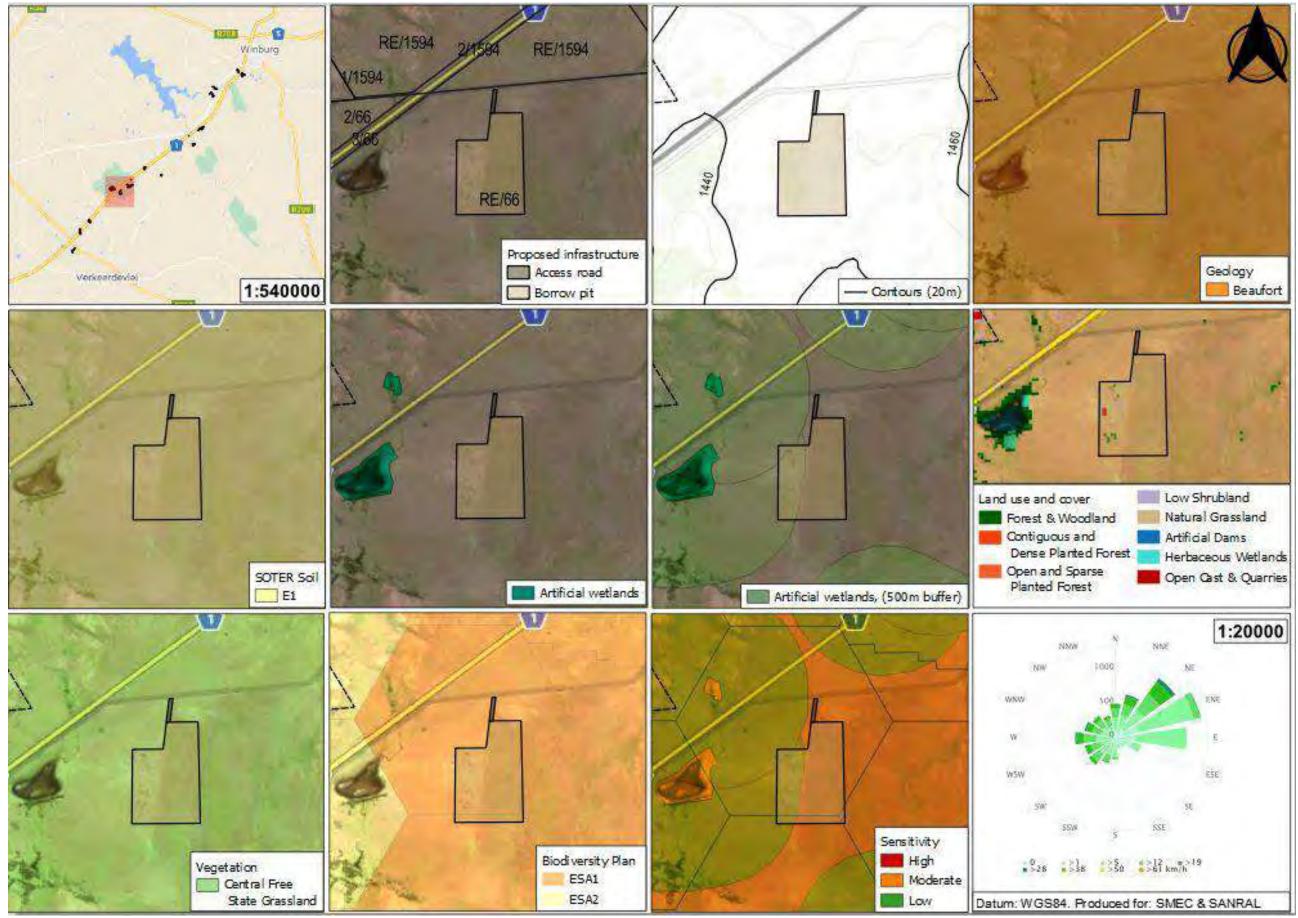


Figure 15: Site summary maps of proposed borrow pit 51.0.

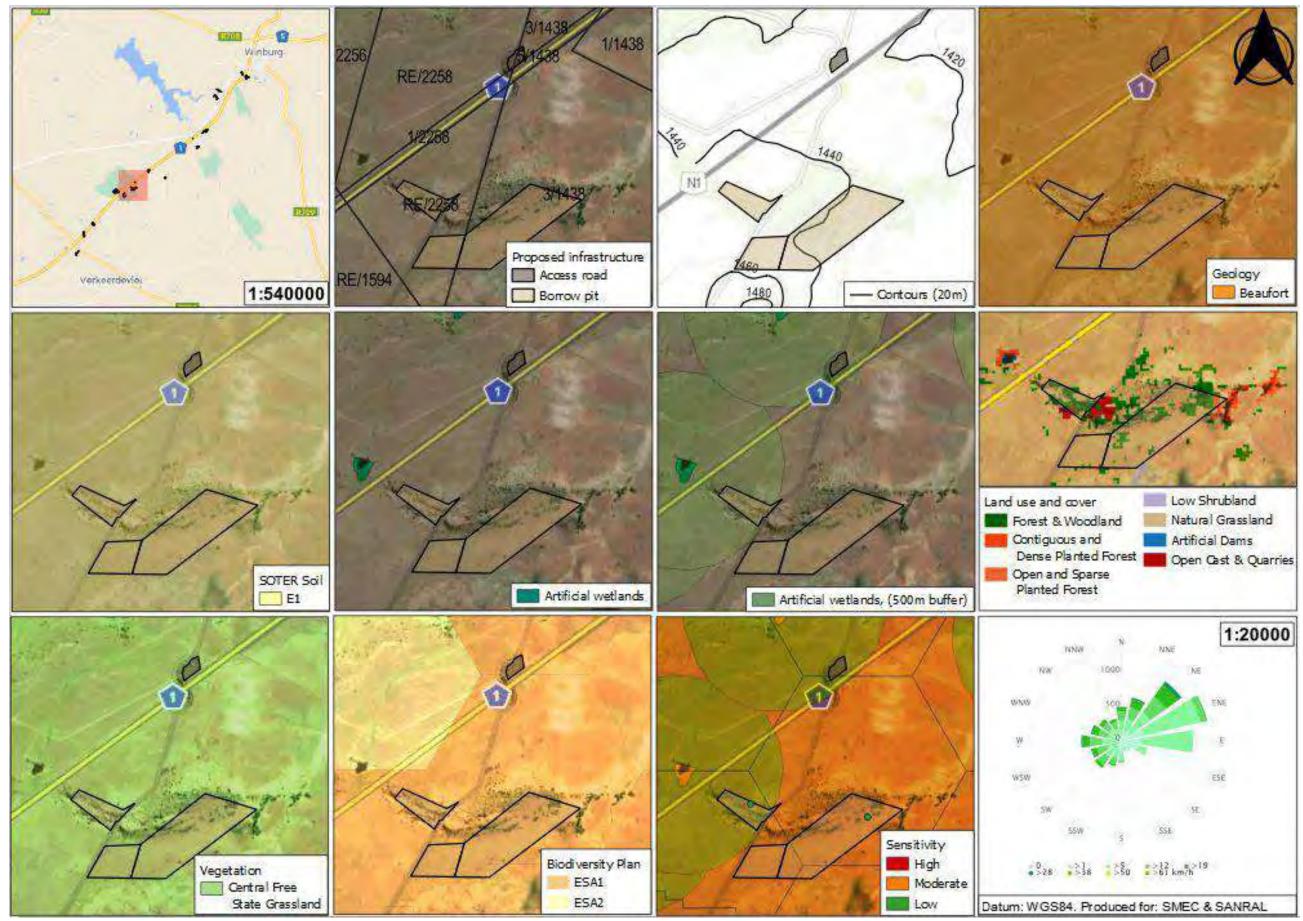


Figure 16: Site summary maps of proposed borrow pit 52.8.

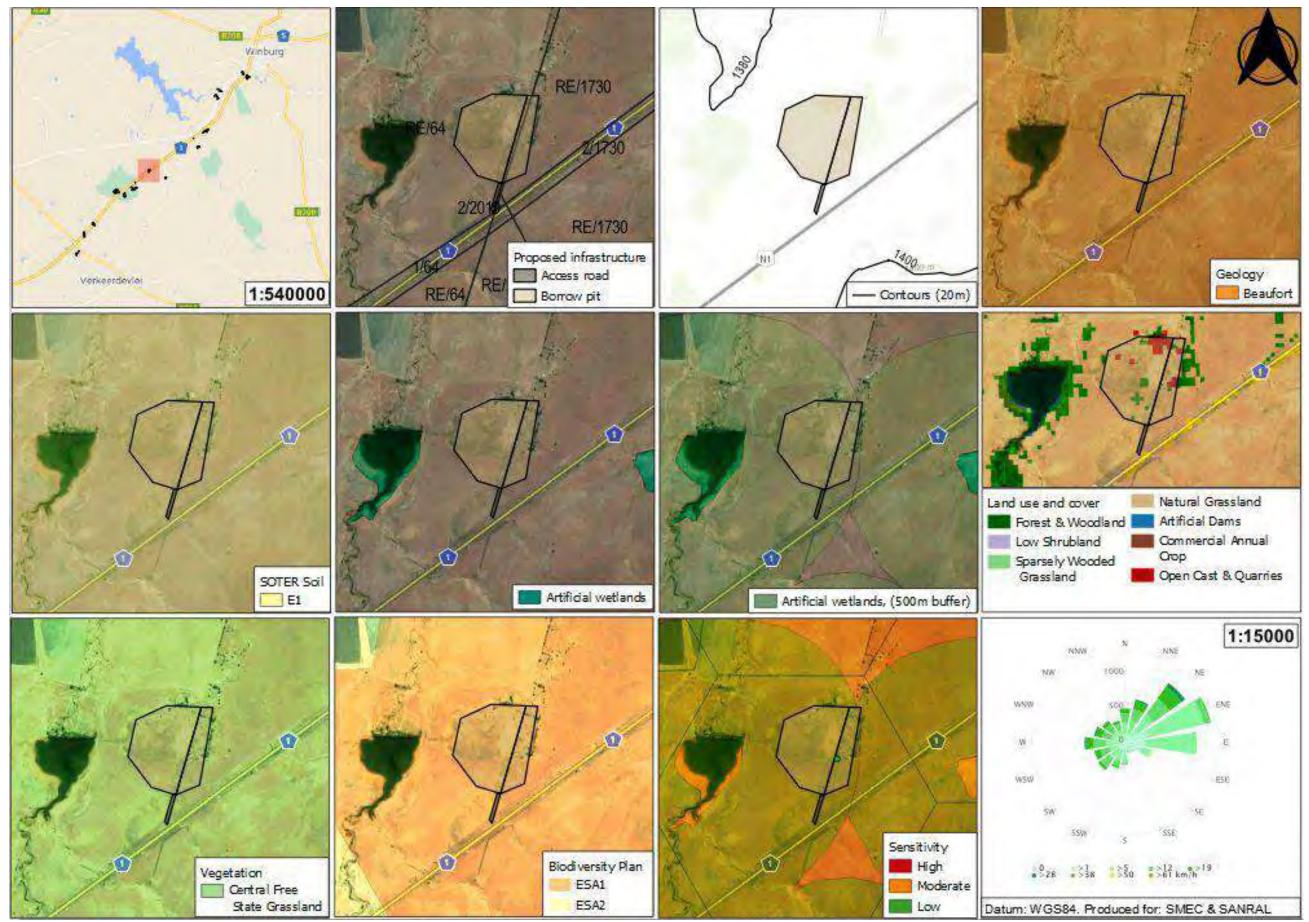


Figure 17: Site summary maps of proposed borrow pit 56.3.

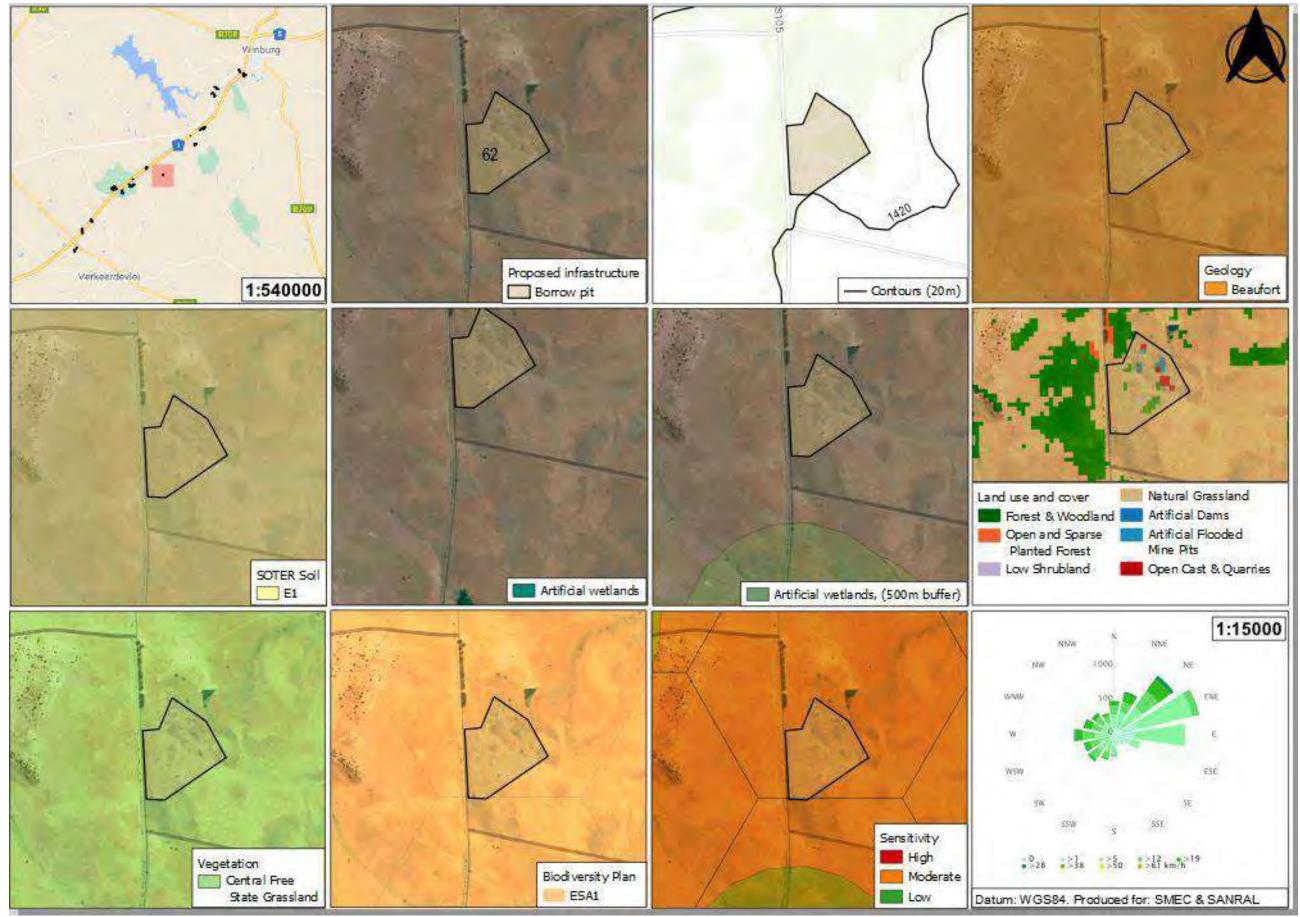


Figure 18: Site summary maps of proposed borrow pit 57.9.

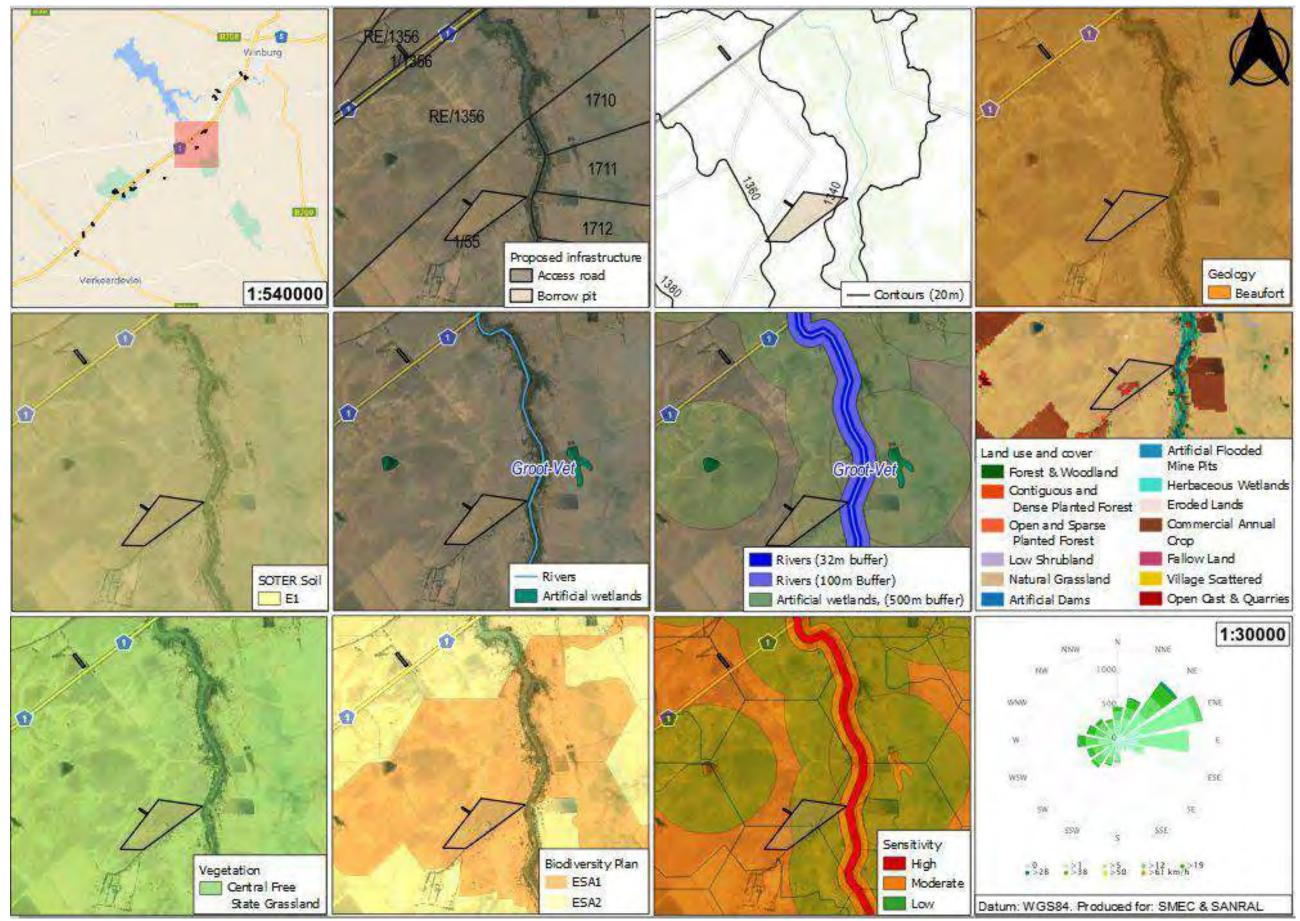


Figure 19: Site summary maps of proposed borrow pit 64.2.

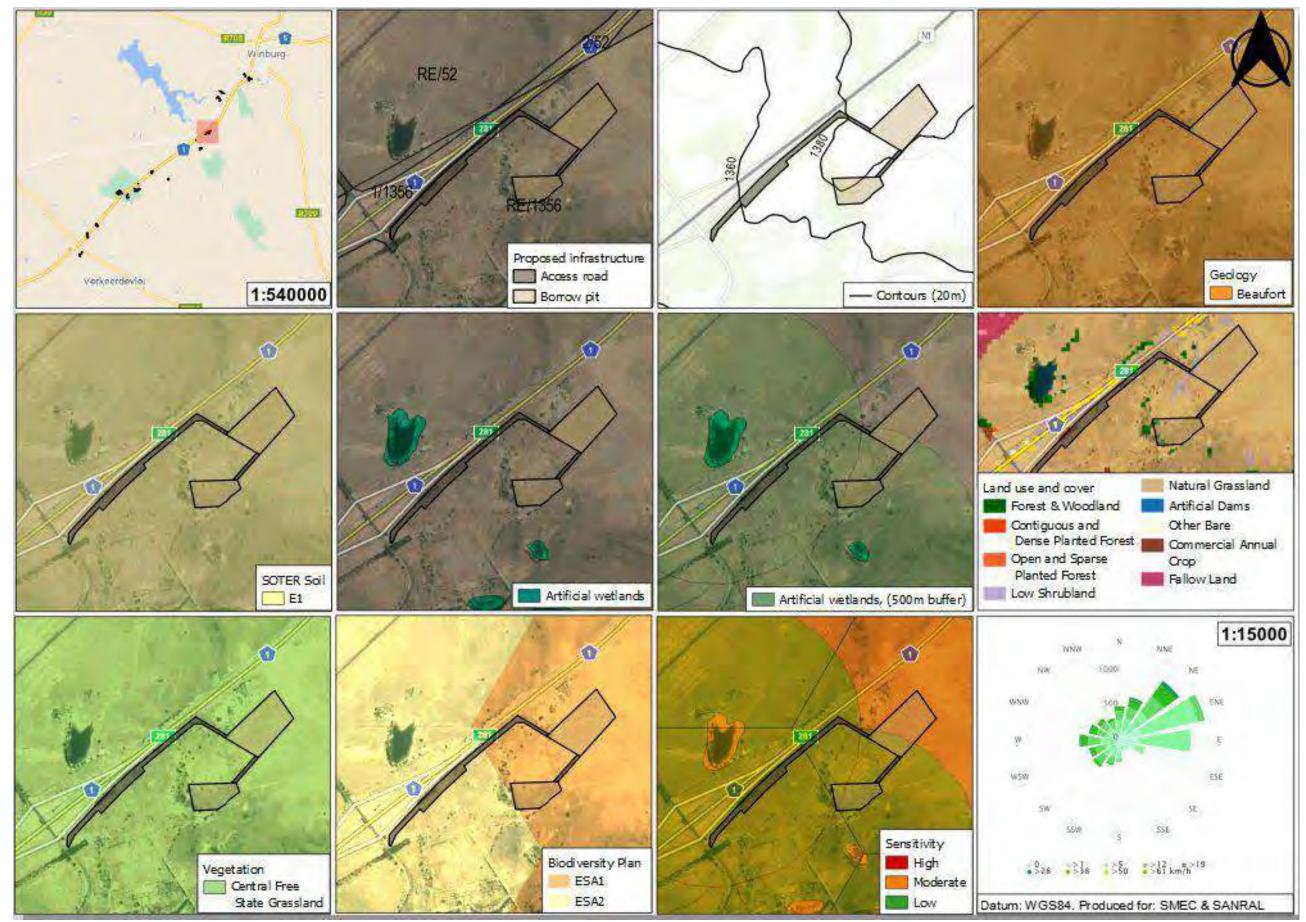


Figure 20: Site summary maps of proposed borrow pit 67.3.

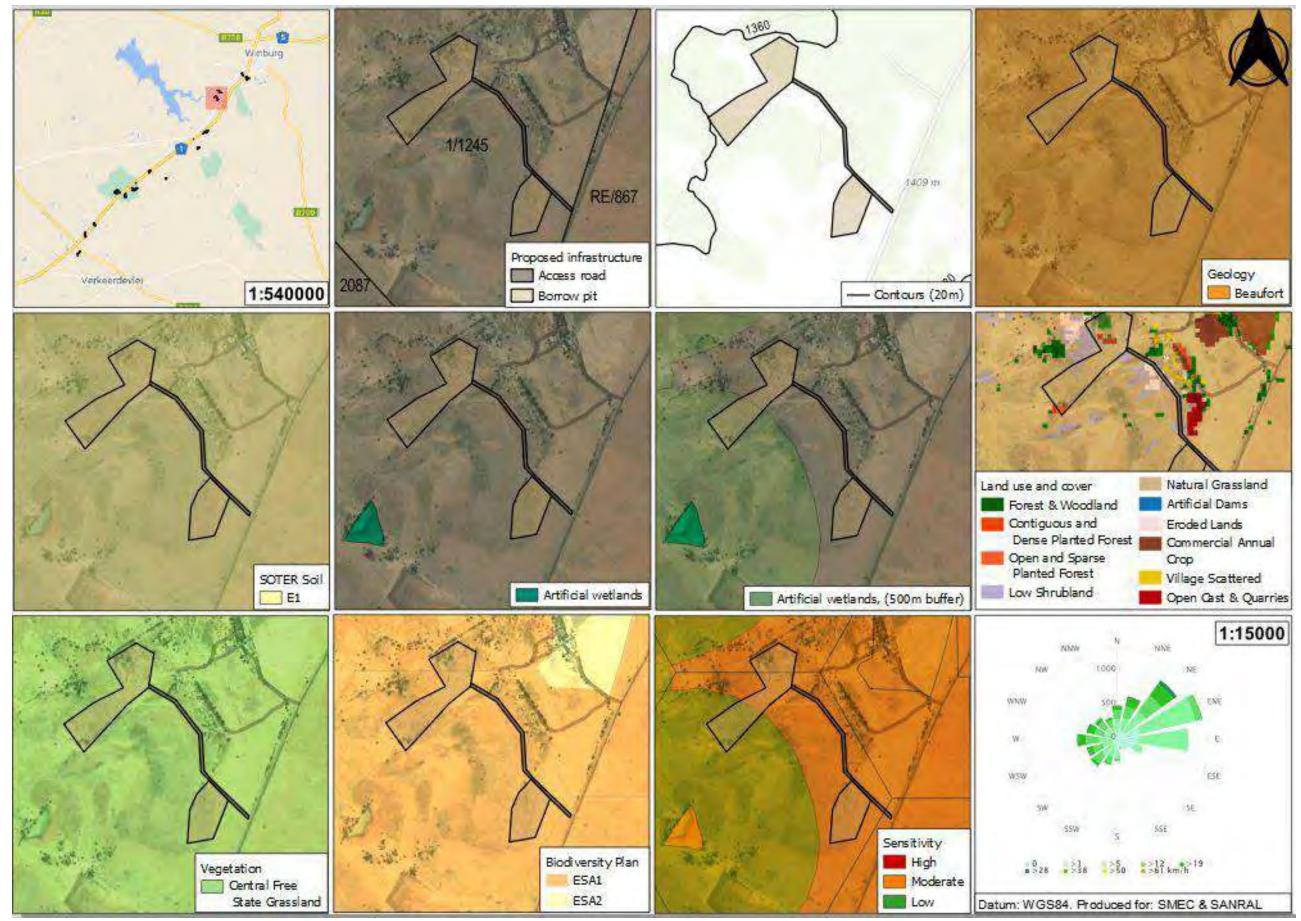


Figure 21: Site summary maps of proposed borrow pits 72.4 and 72.7.

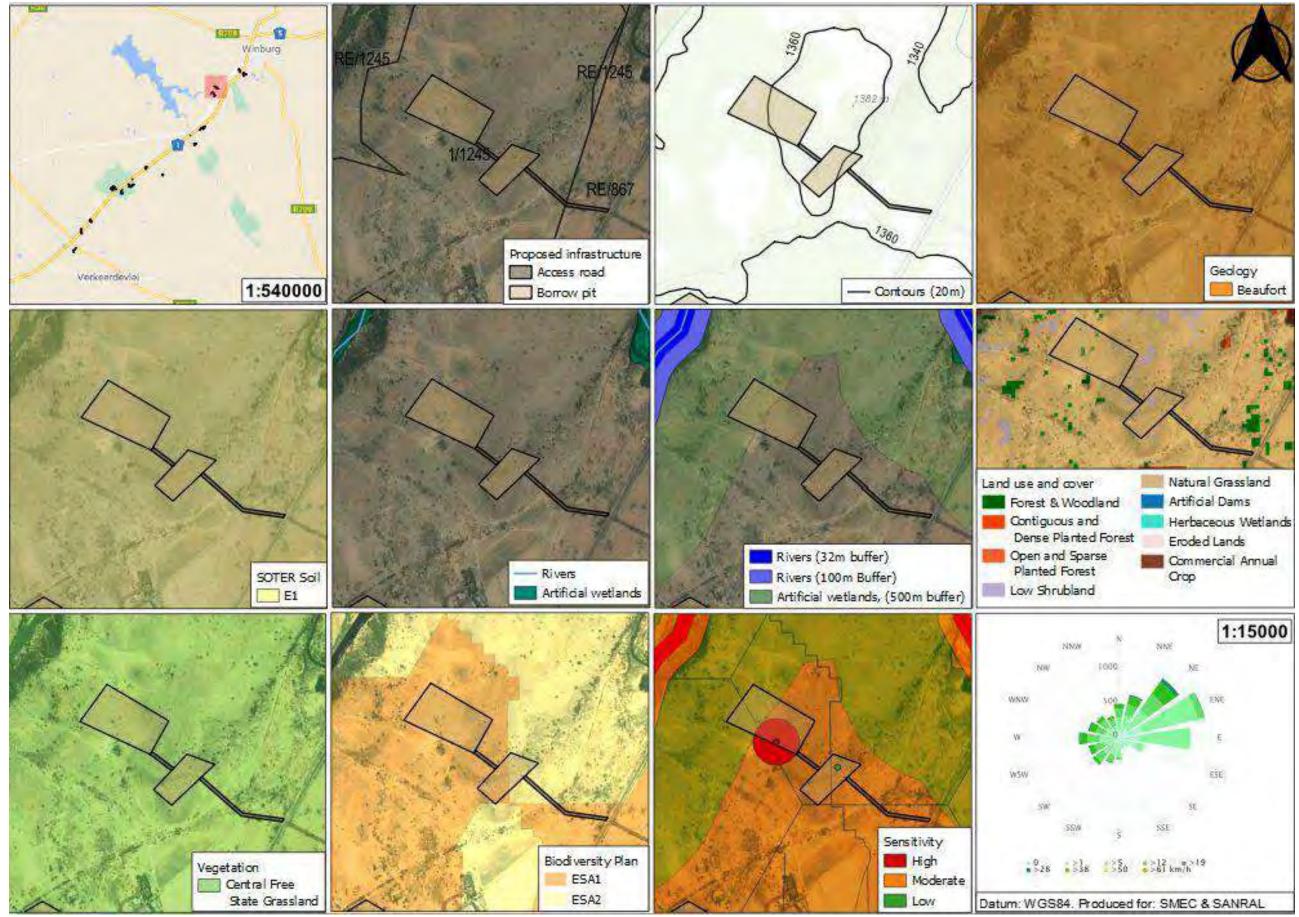


Figure 22: Site summary maps of proposed borrow pit 73.8.

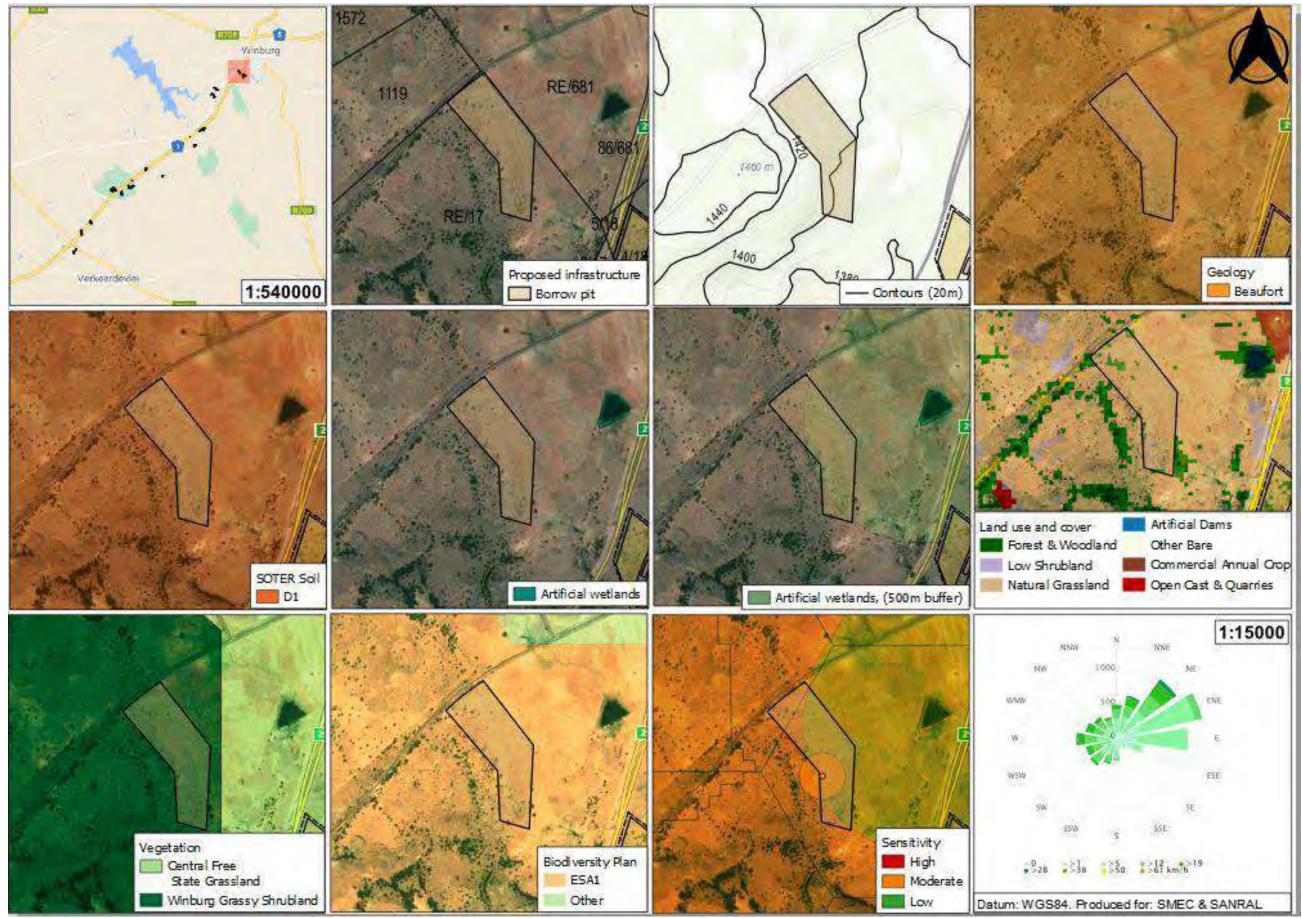


Figure 23: Site summary maps of proposed borrow pit 77.7.

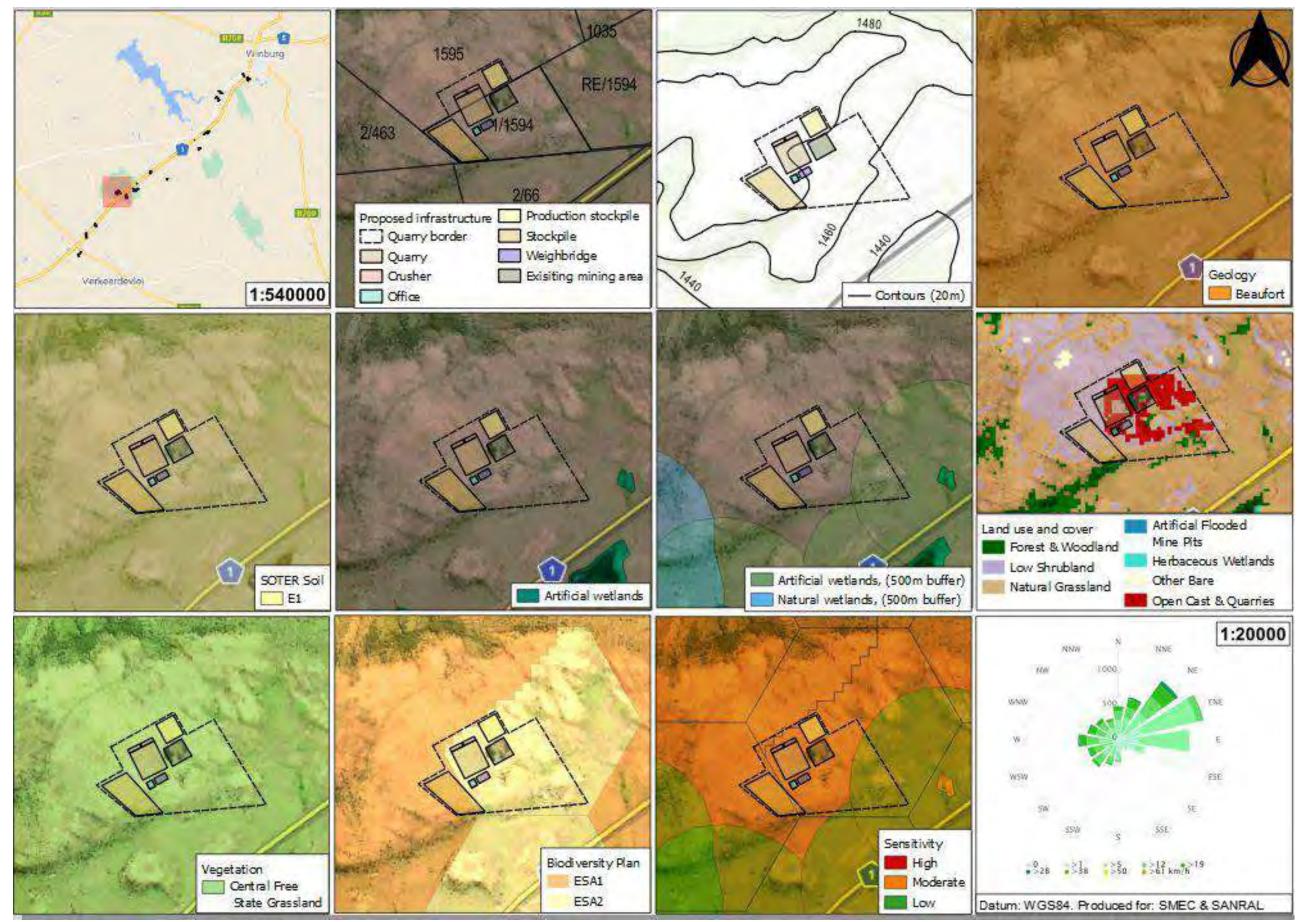


Figure 24: Site summary maps of proposed quarry 50.6.

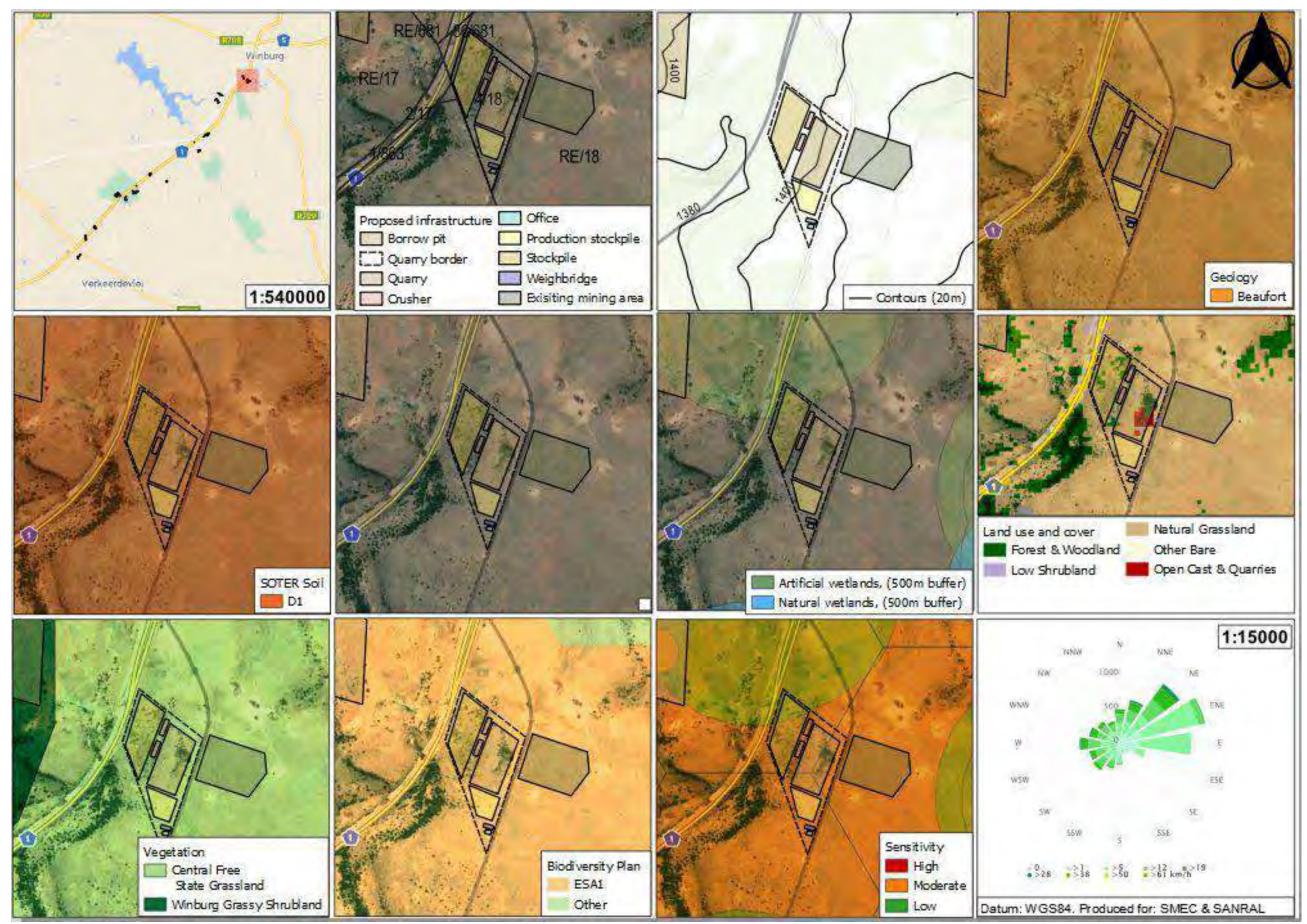


Figure 25: Site summary maps of proposed quarry 77.5.

**APPENDIX A2 - SITE PHOTOGRAPHS** 

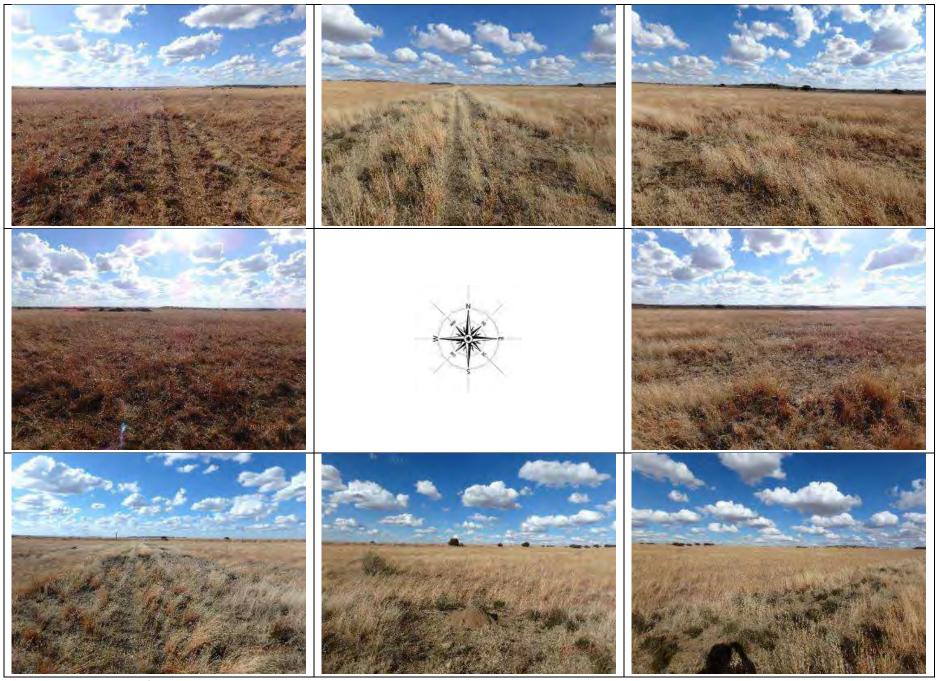


Plate 1: Site photographs for proposed borrow pit 39.6

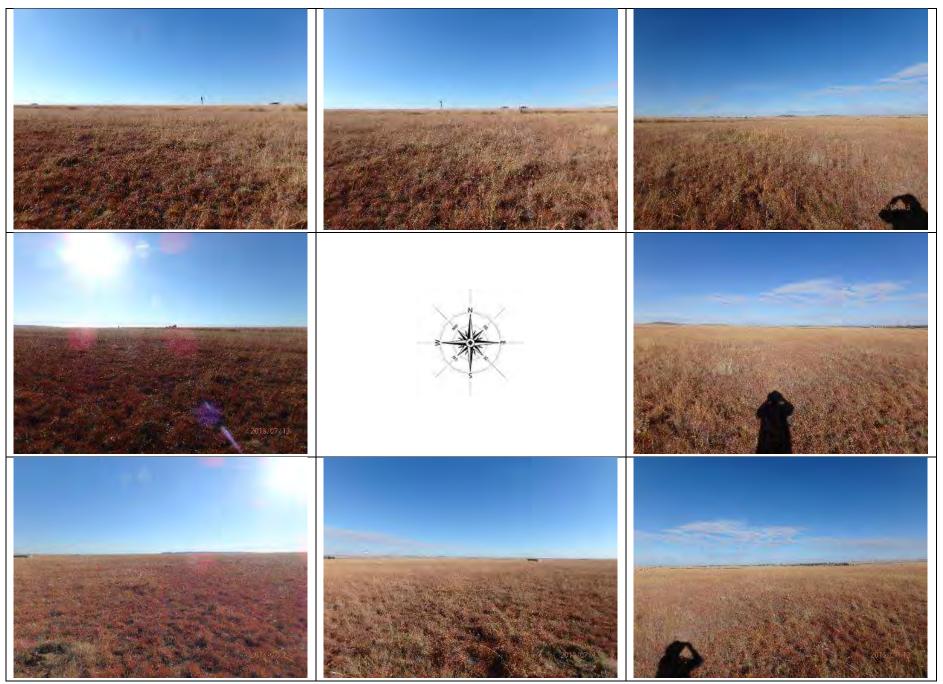


Plate 2: Site photographs for proposed borrow pit 42.2

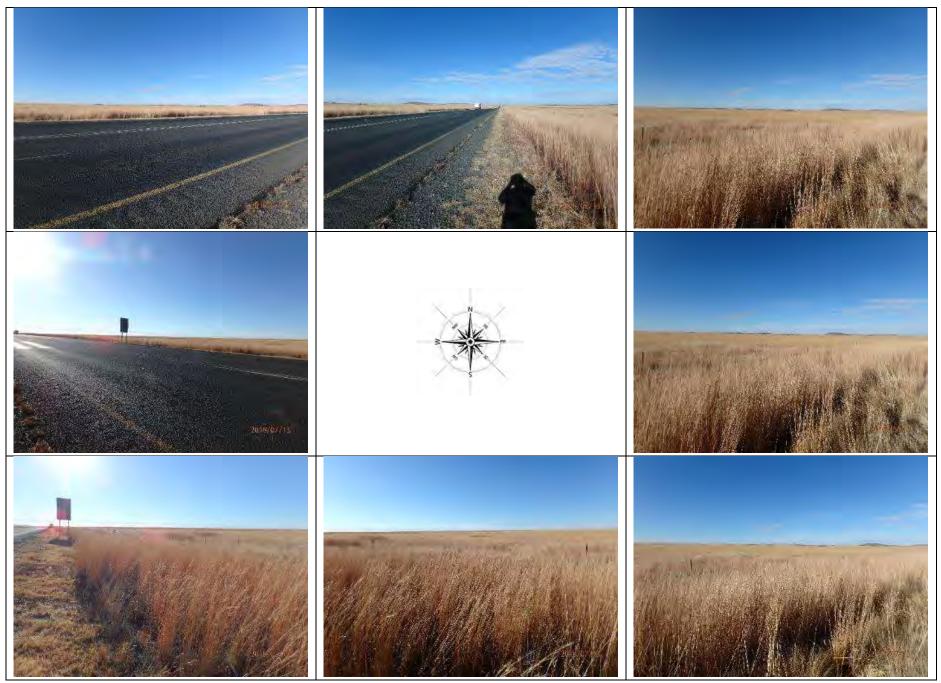


Plate 3: Site photographs for proposed borrow pit 42.7

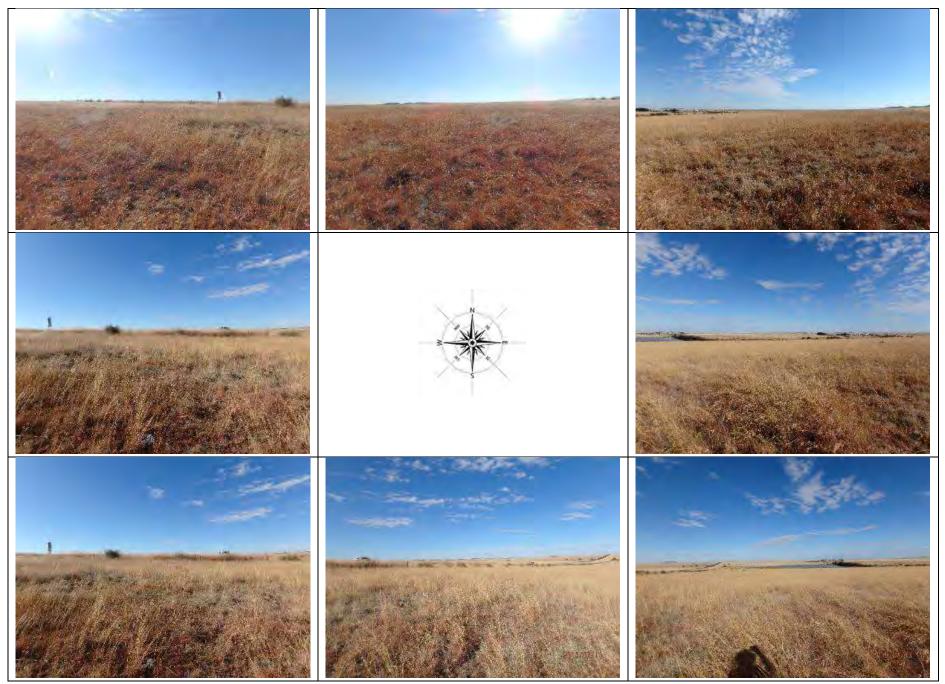


Plate 4: Site photographs for proposed borrow pit 44.5 and 44.6

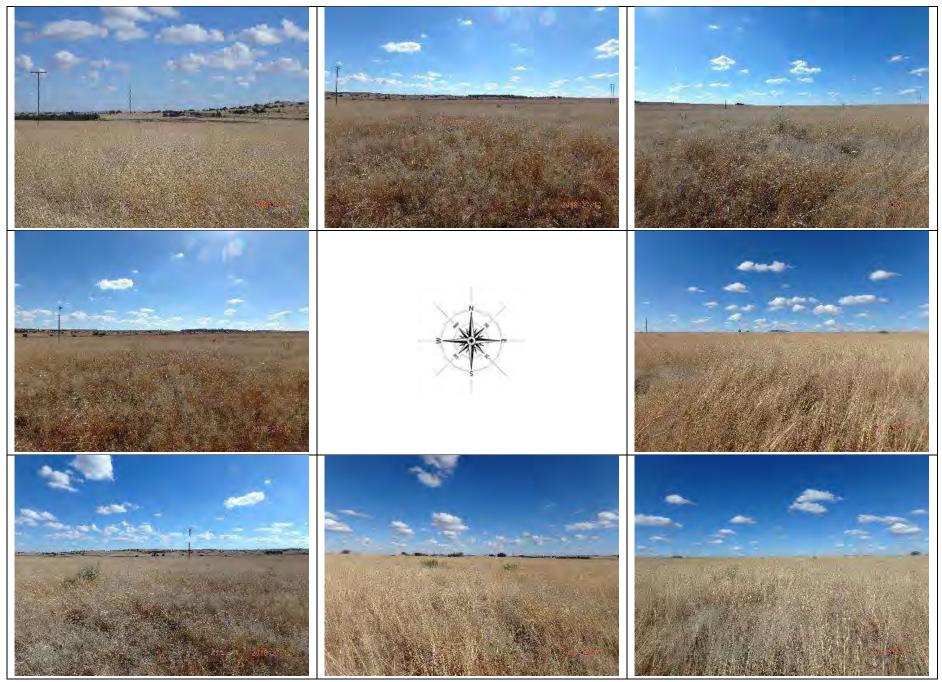


Plate 5: Site photographs for proposed borrow pit 51.0



Plate 6: Site photographs for proposed borrow pit 52.8



Plate 7: Site photographs for proposed borrow pit 56.3

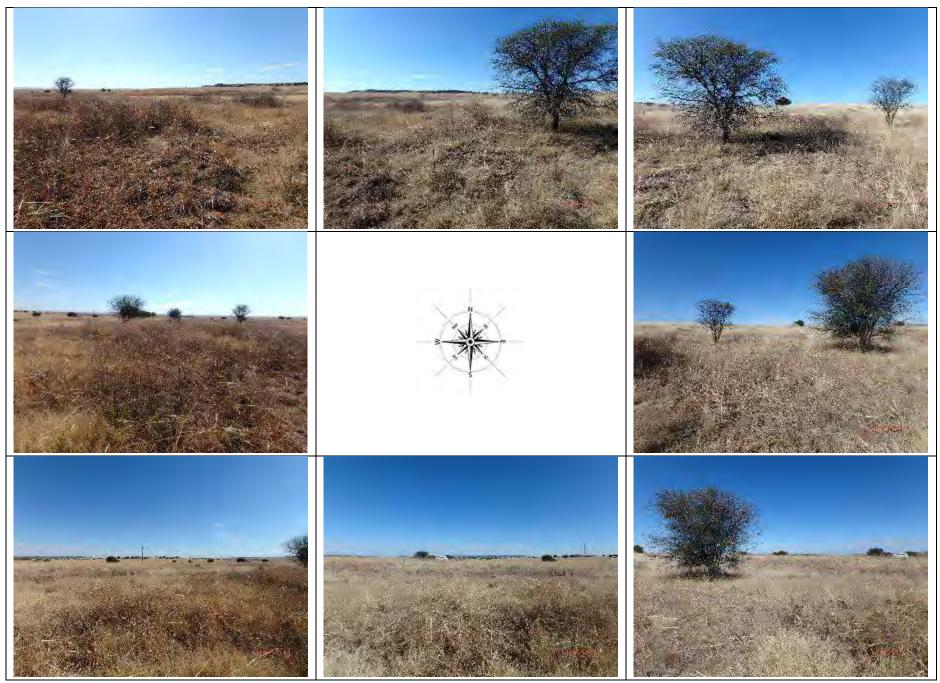


Plate 8: Site photographs for proposed borrow pit 57.9



Plate 9: Site photographs for proposed borrow pit 64.2



Plate 10: Site photographs for proposed borrow pit 67.3

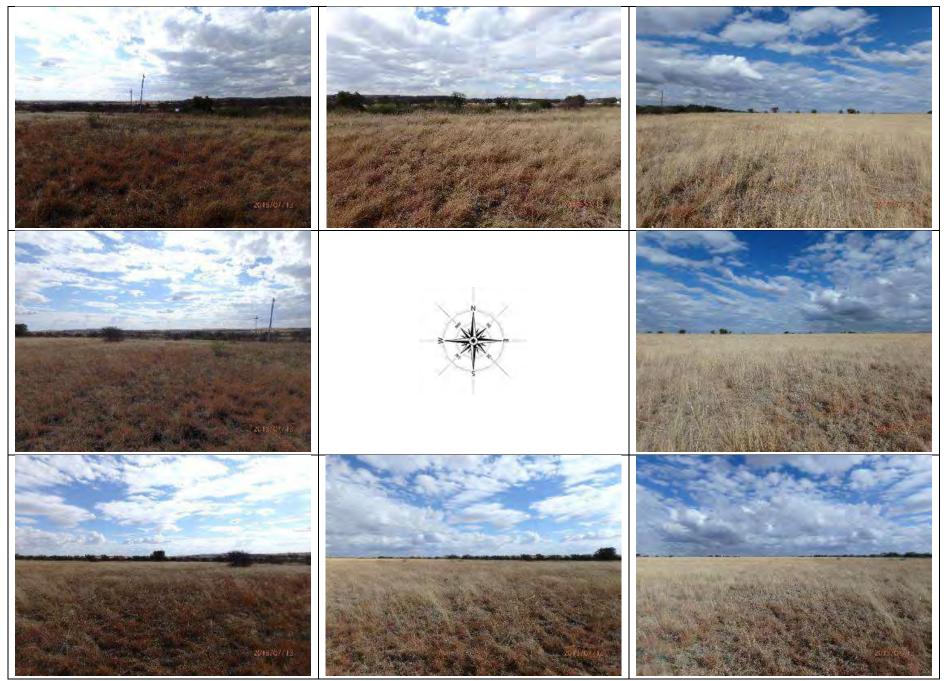


Plate 11: Site photographs for proposed borrow pit 72.4 and 72.7

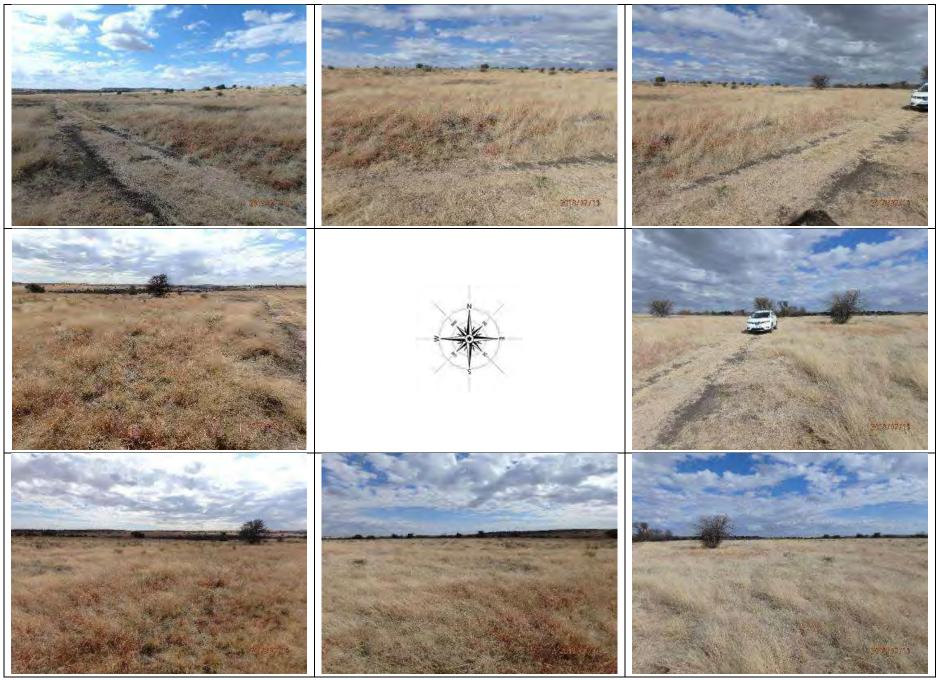


Plate 12: Site photographs for proposed borrow pit 73.8

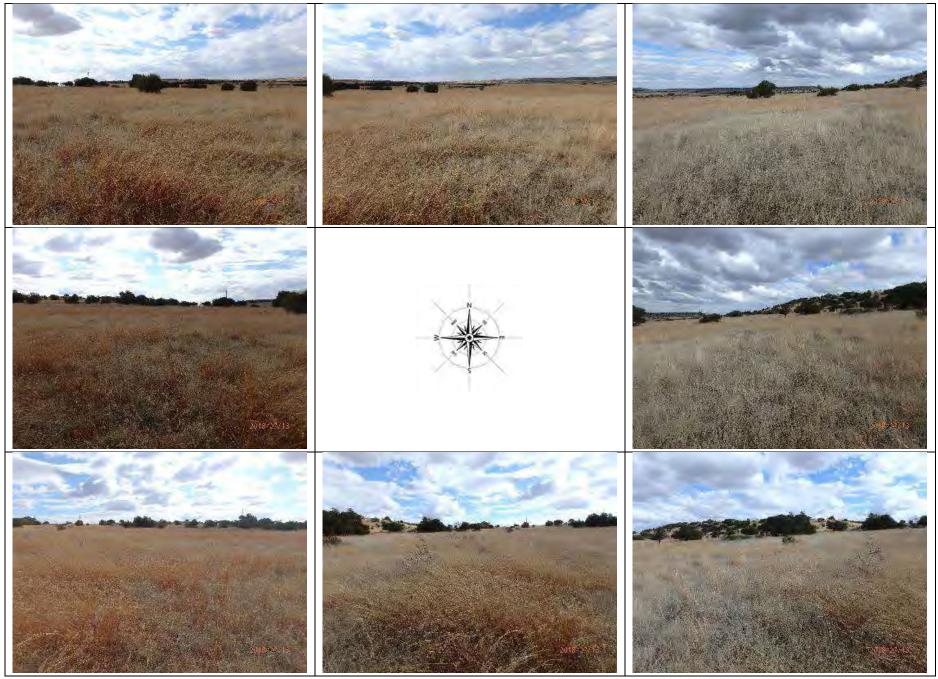


Plate 13: Site photographs for proposed borrow pit 77.7

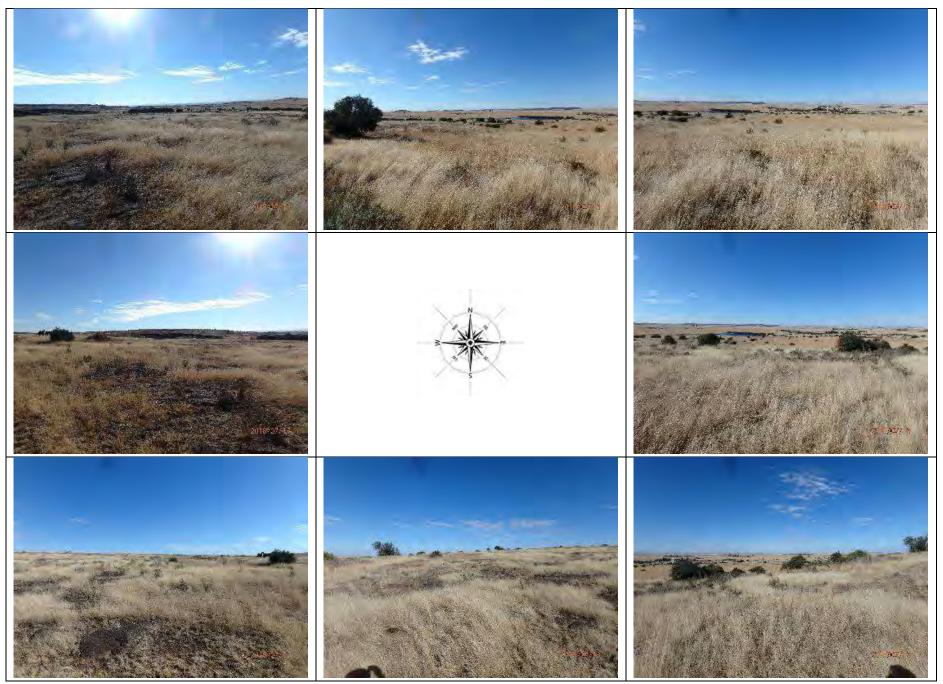


Plate 14: Site photographs for proposed quarry 50.6

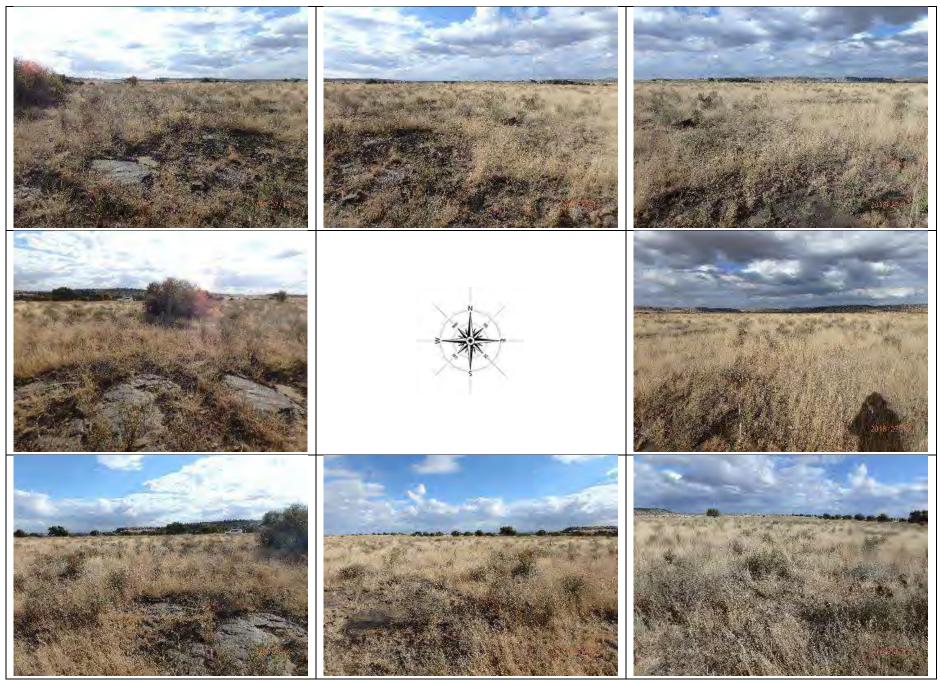
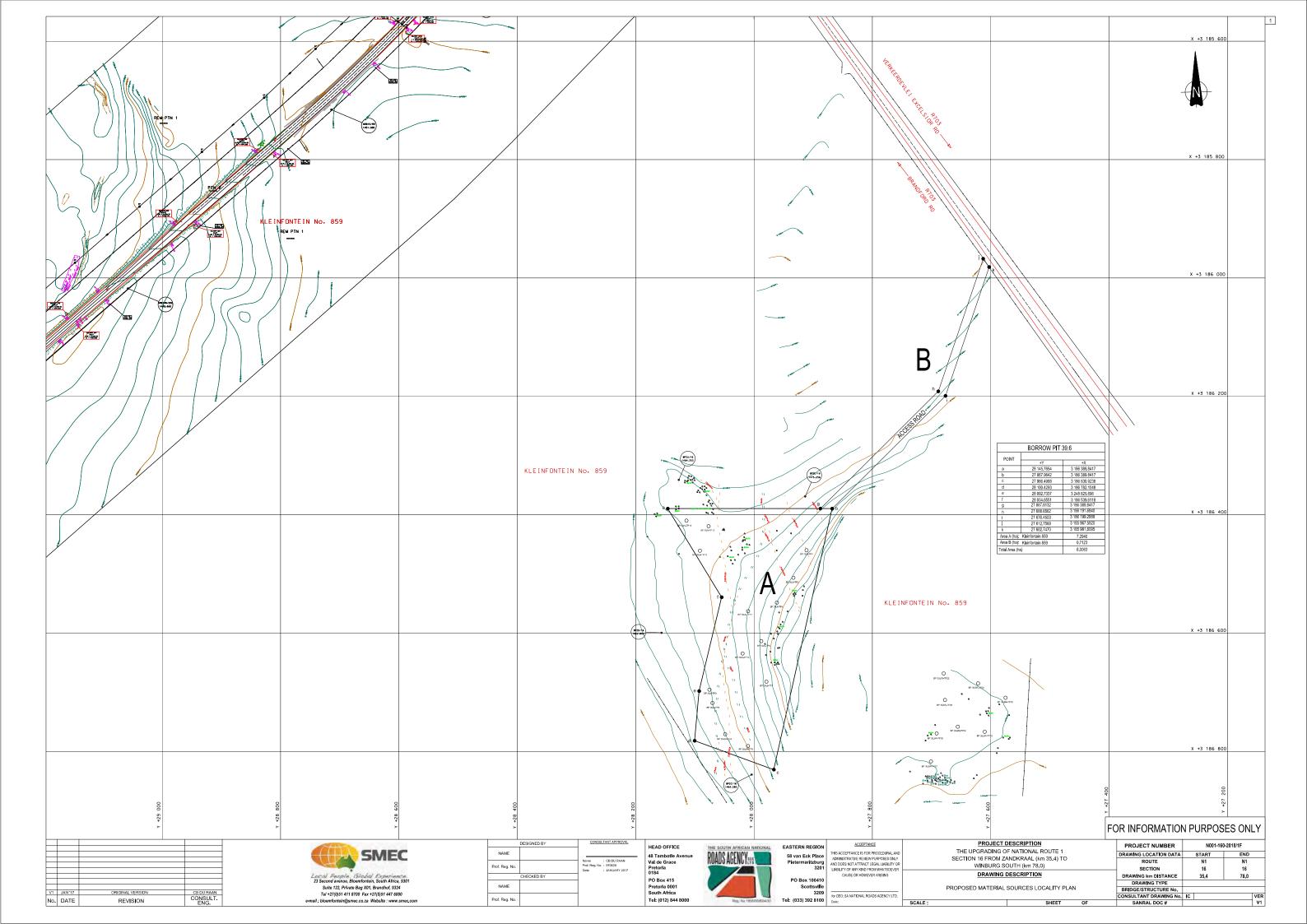
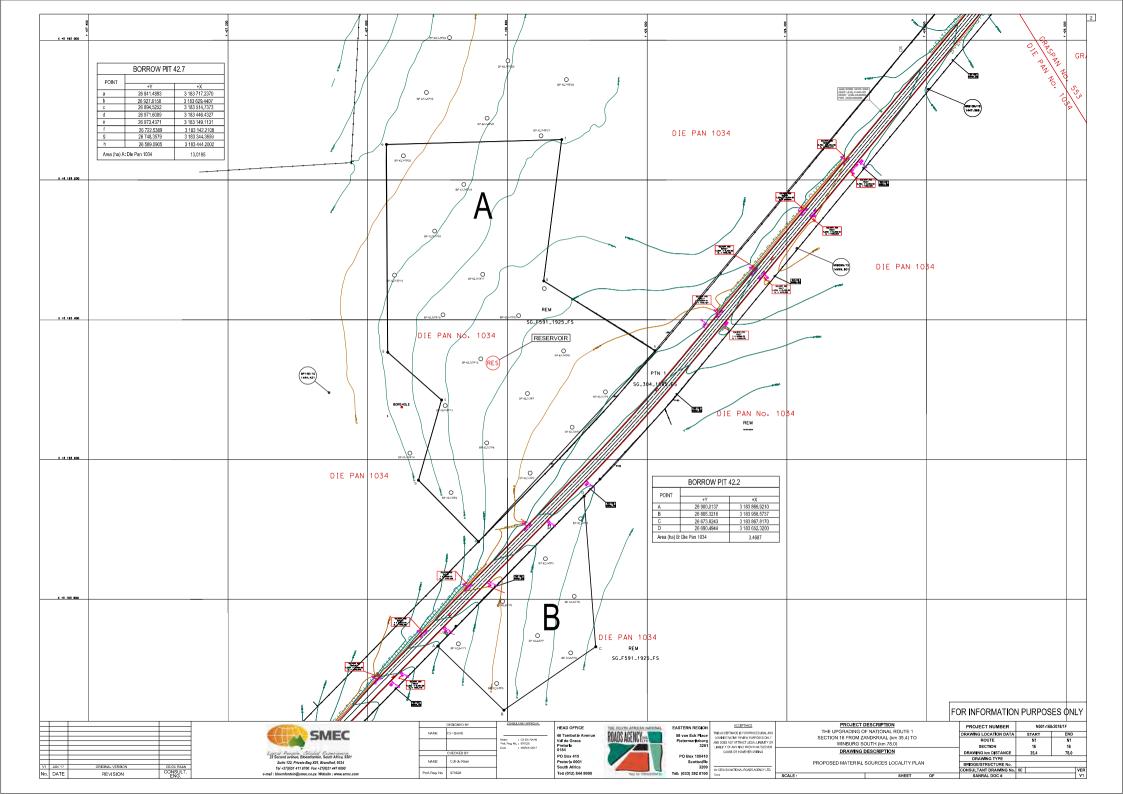
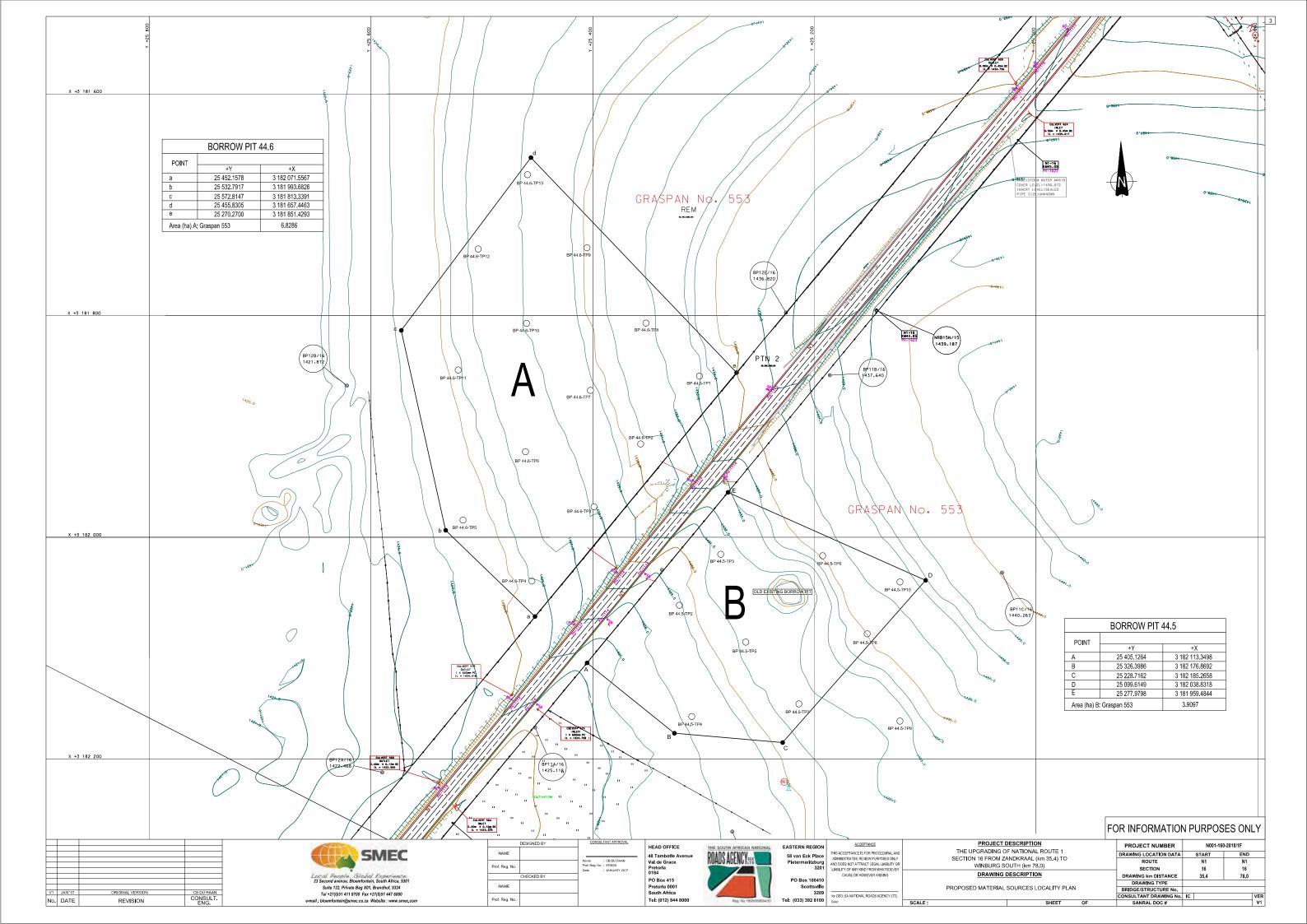


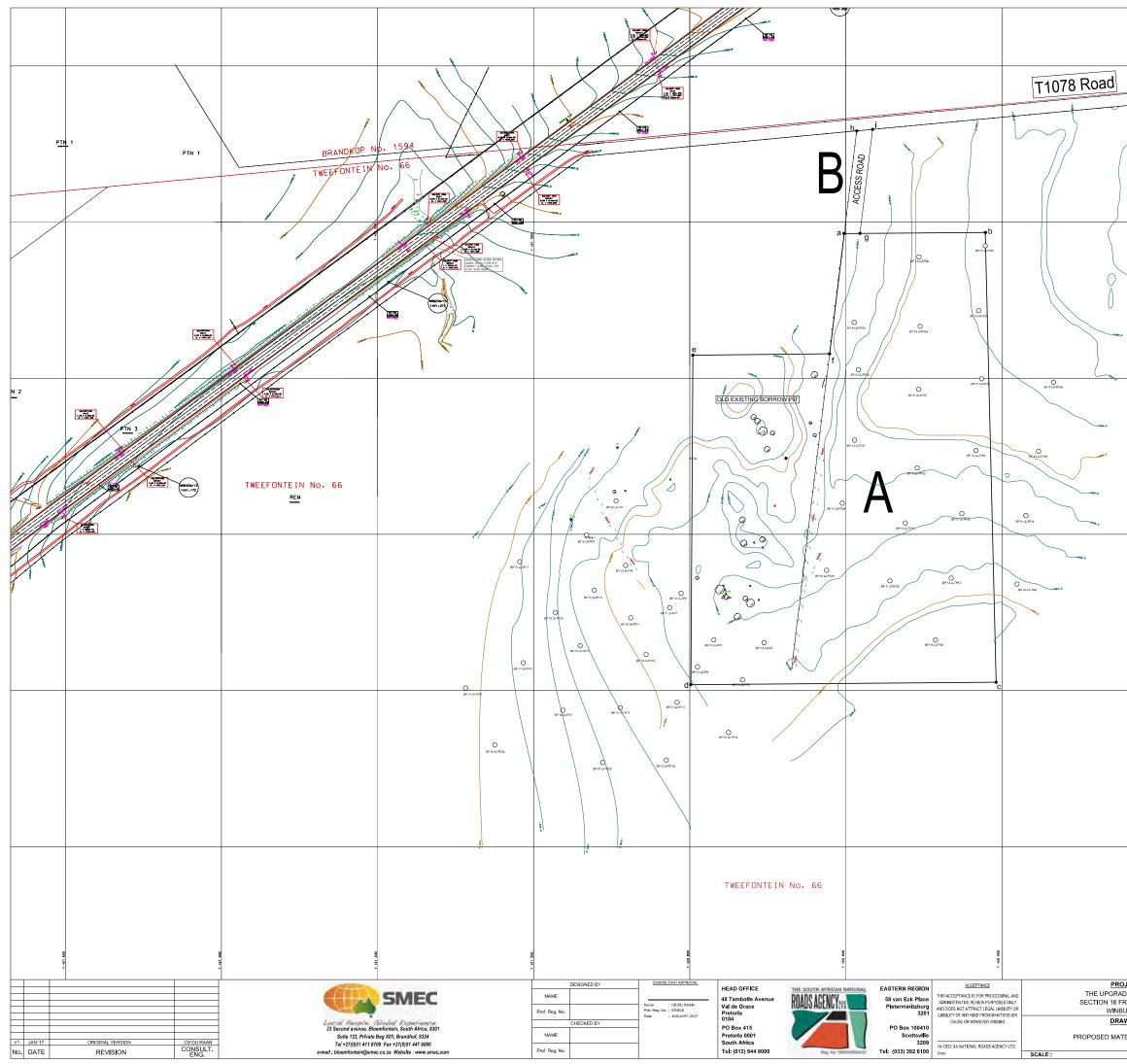
Plate 15: Site photographs for proposed quarry 77.5

## **APPENDIX A3 - MINE LAYOUT DESIGNS**

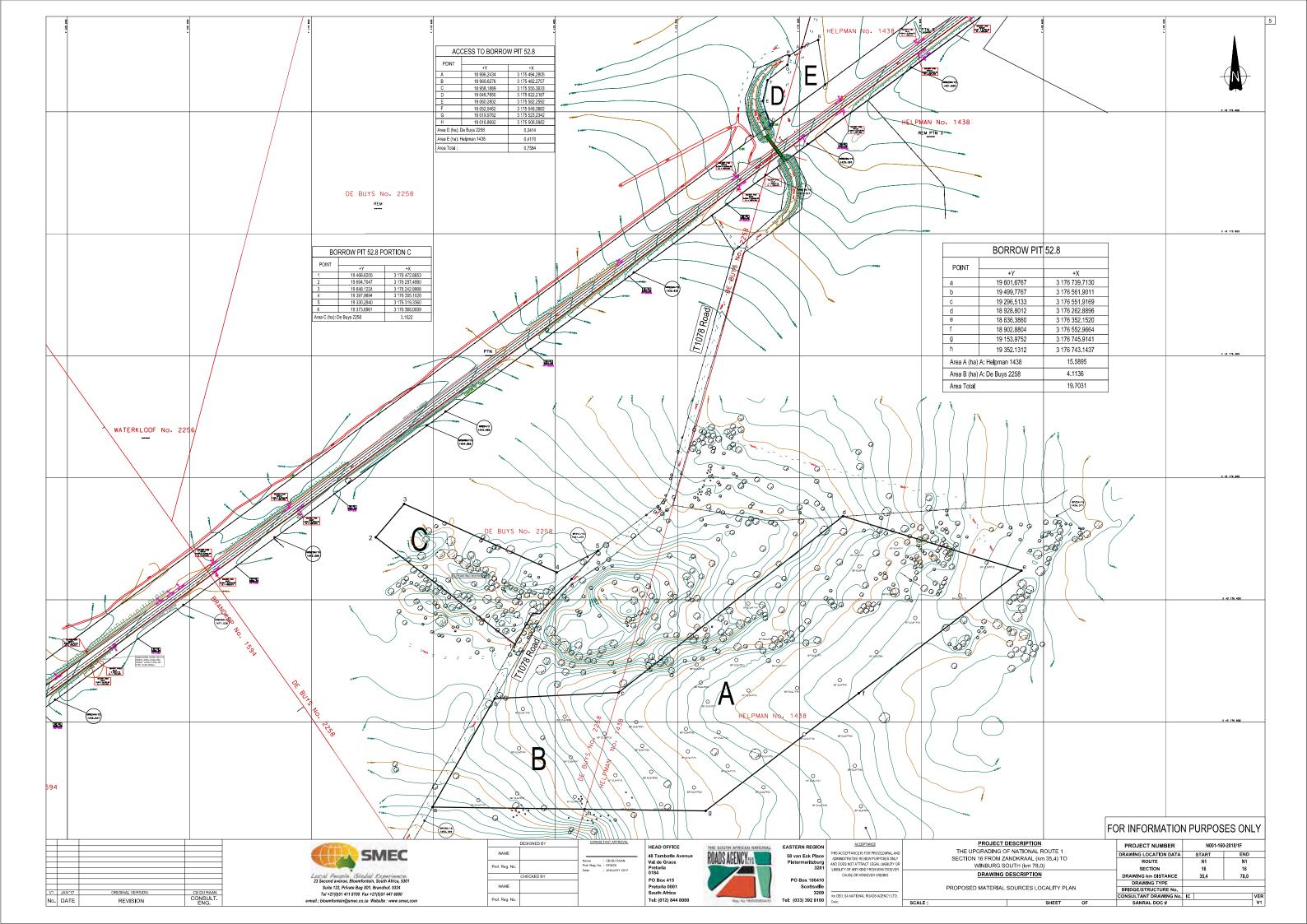


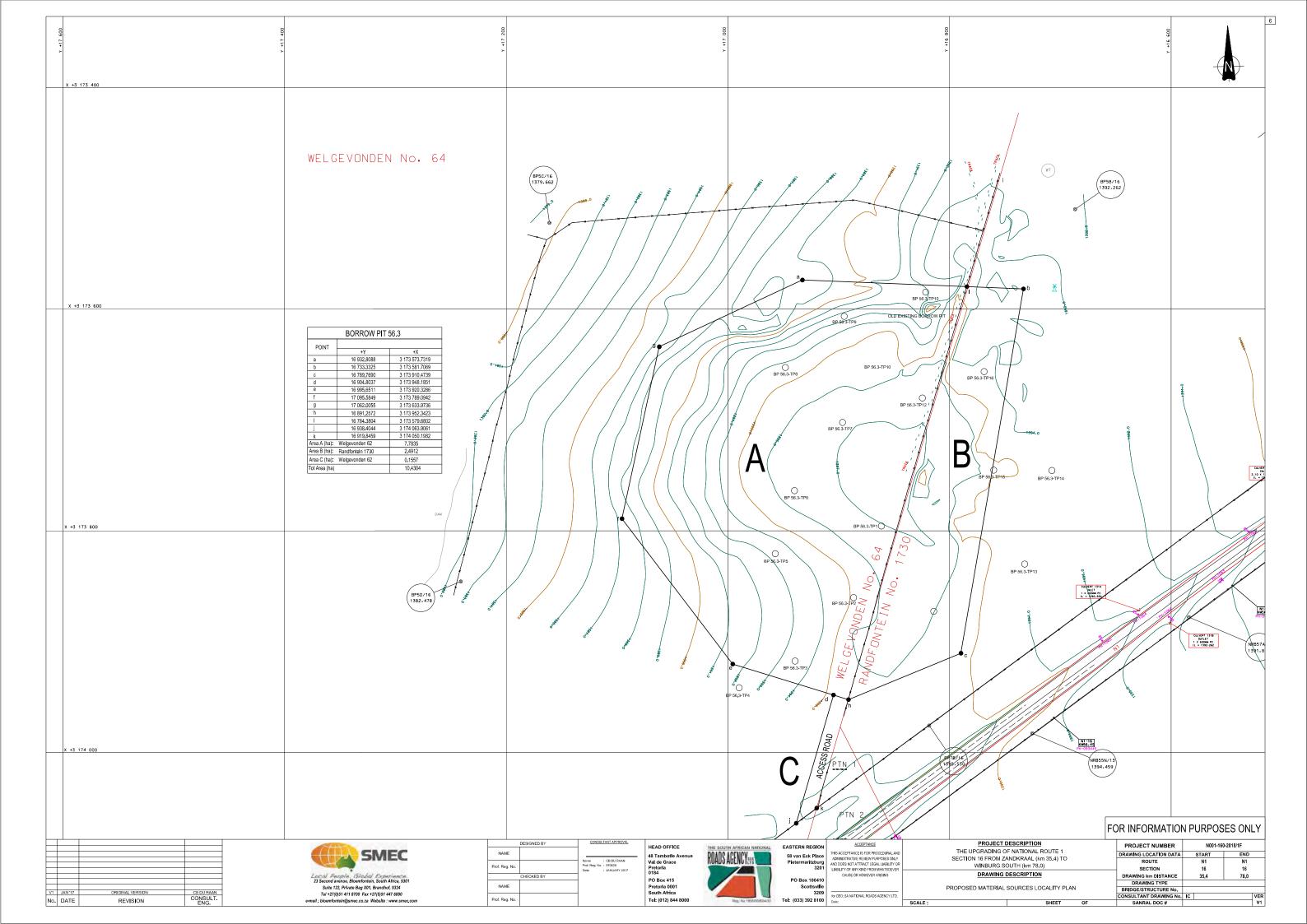


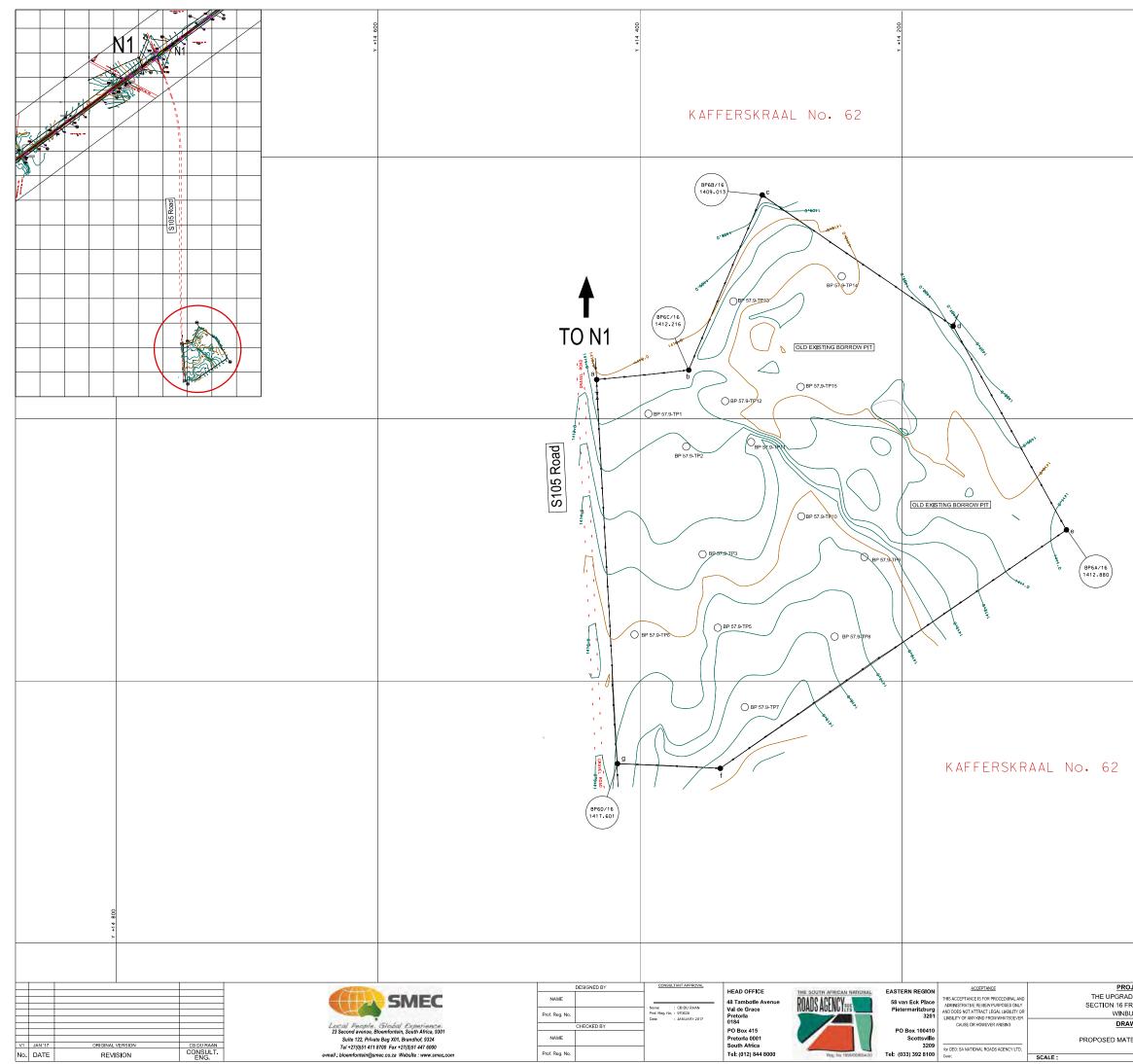




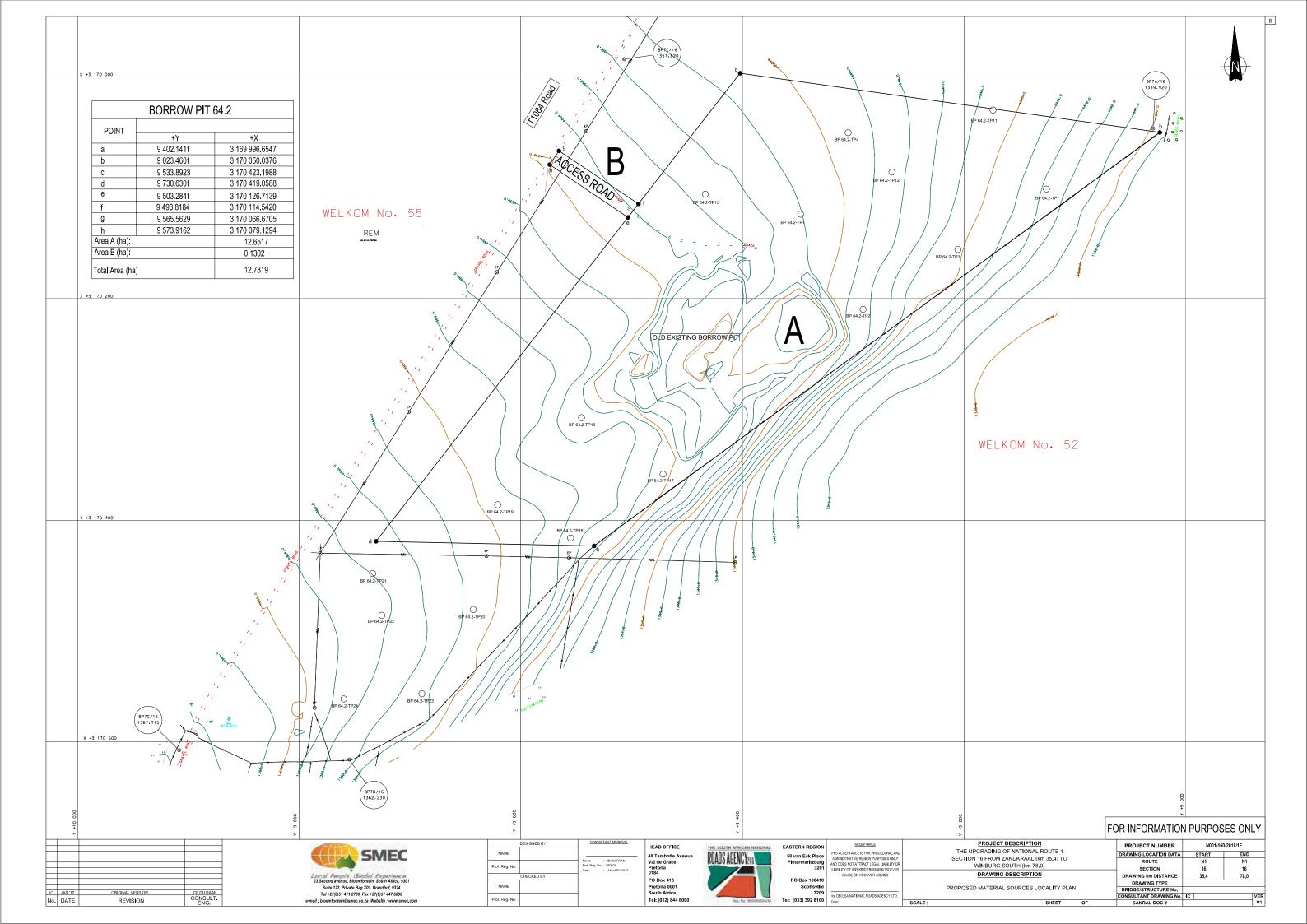
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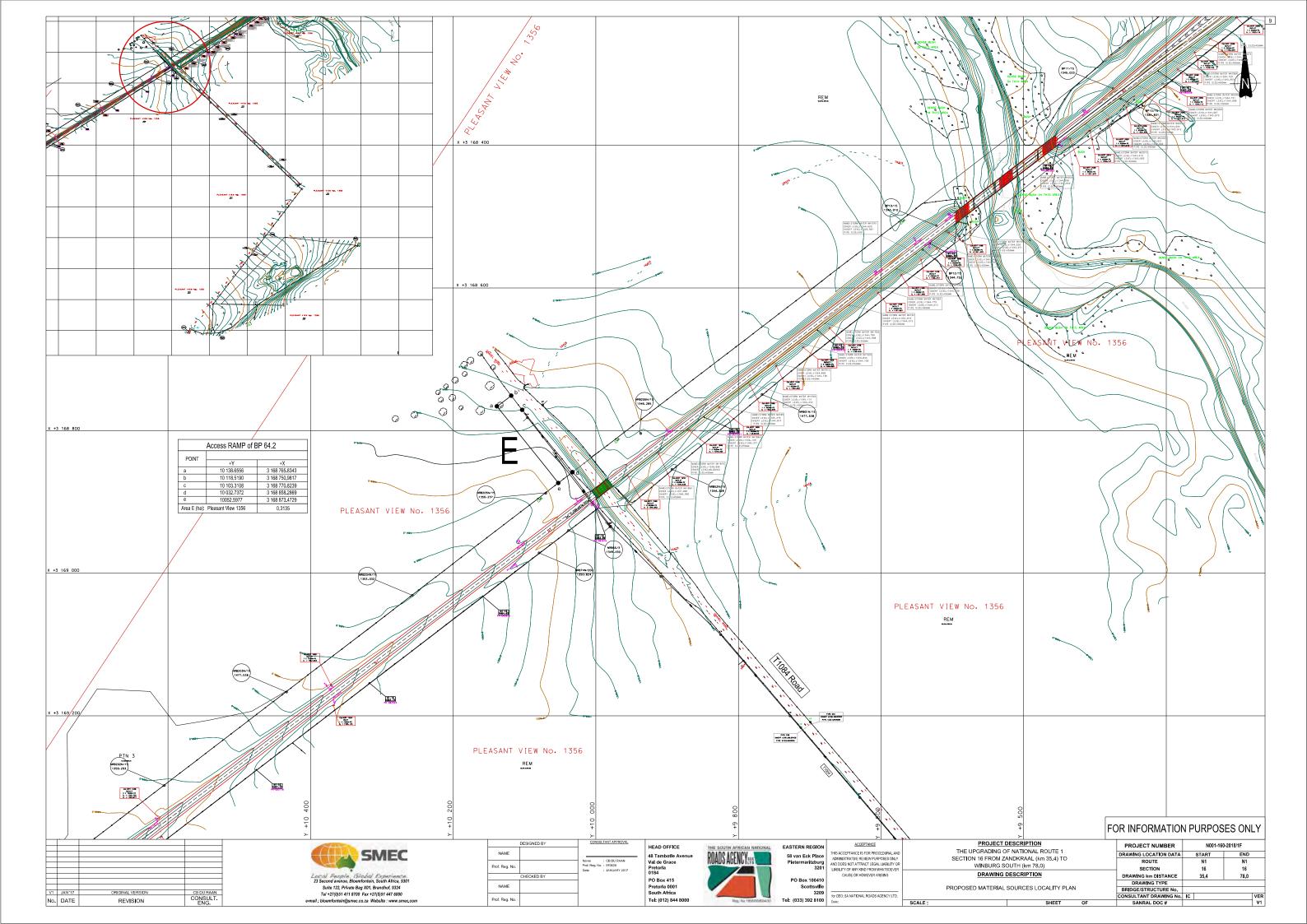


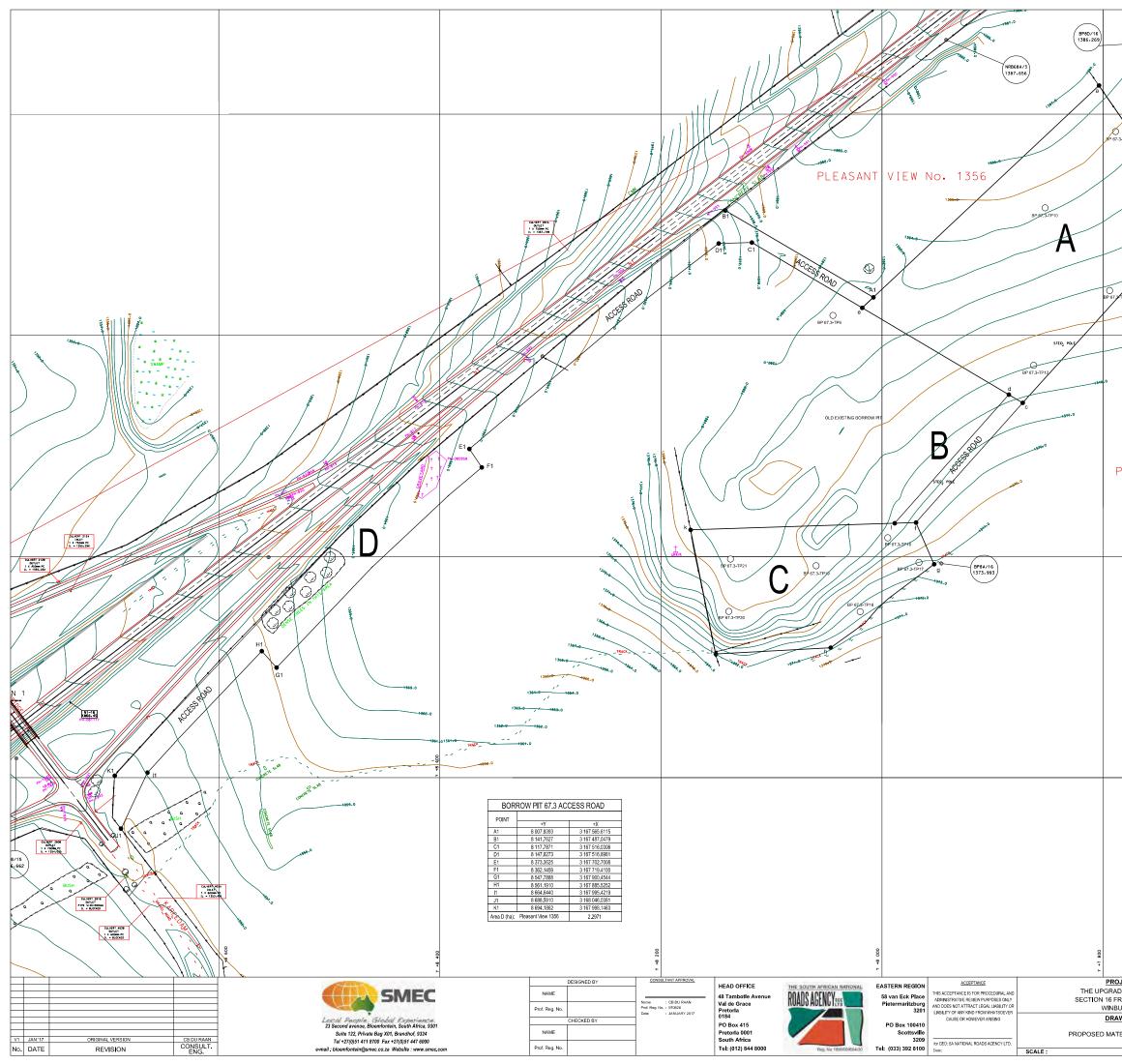




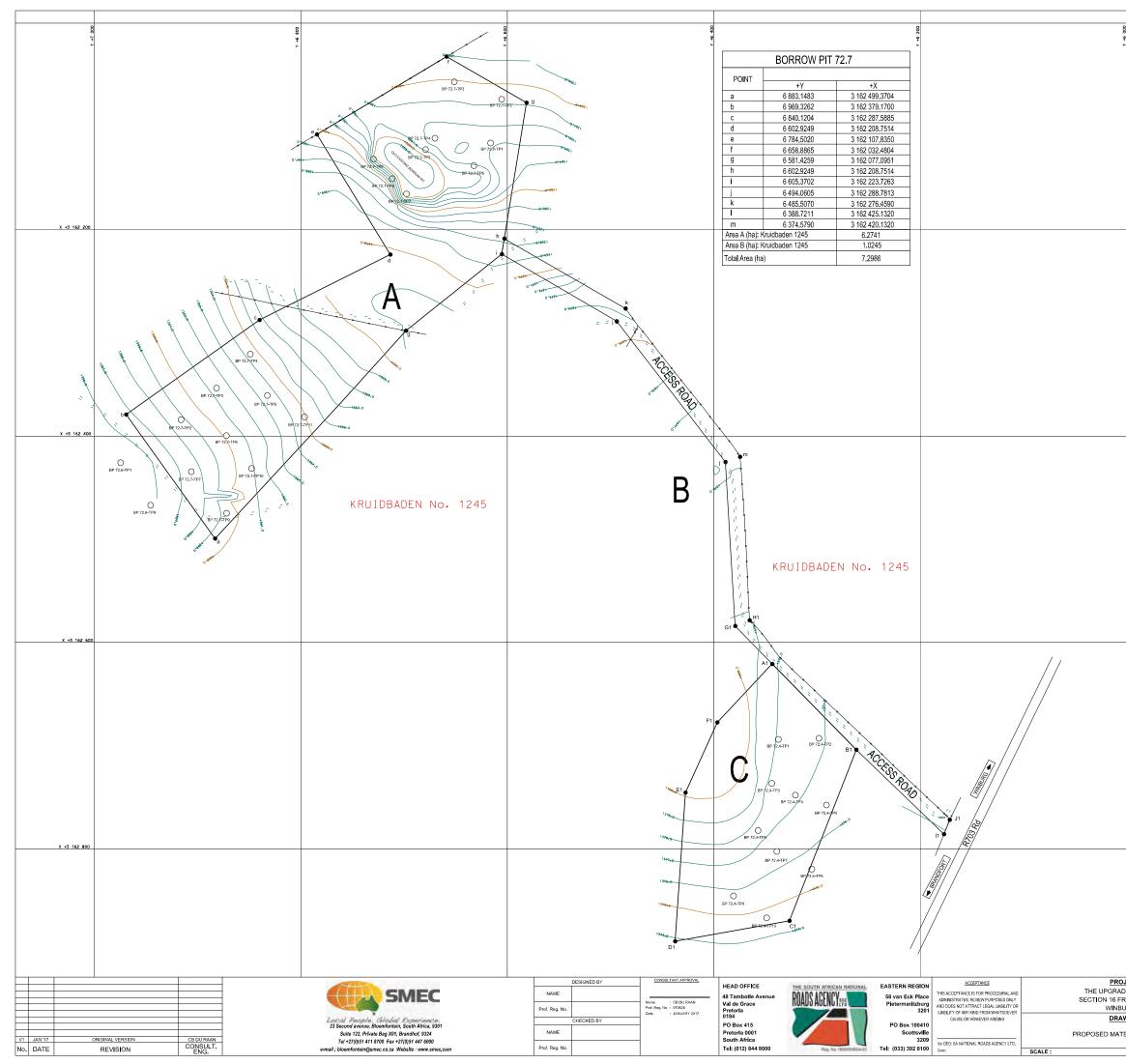
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