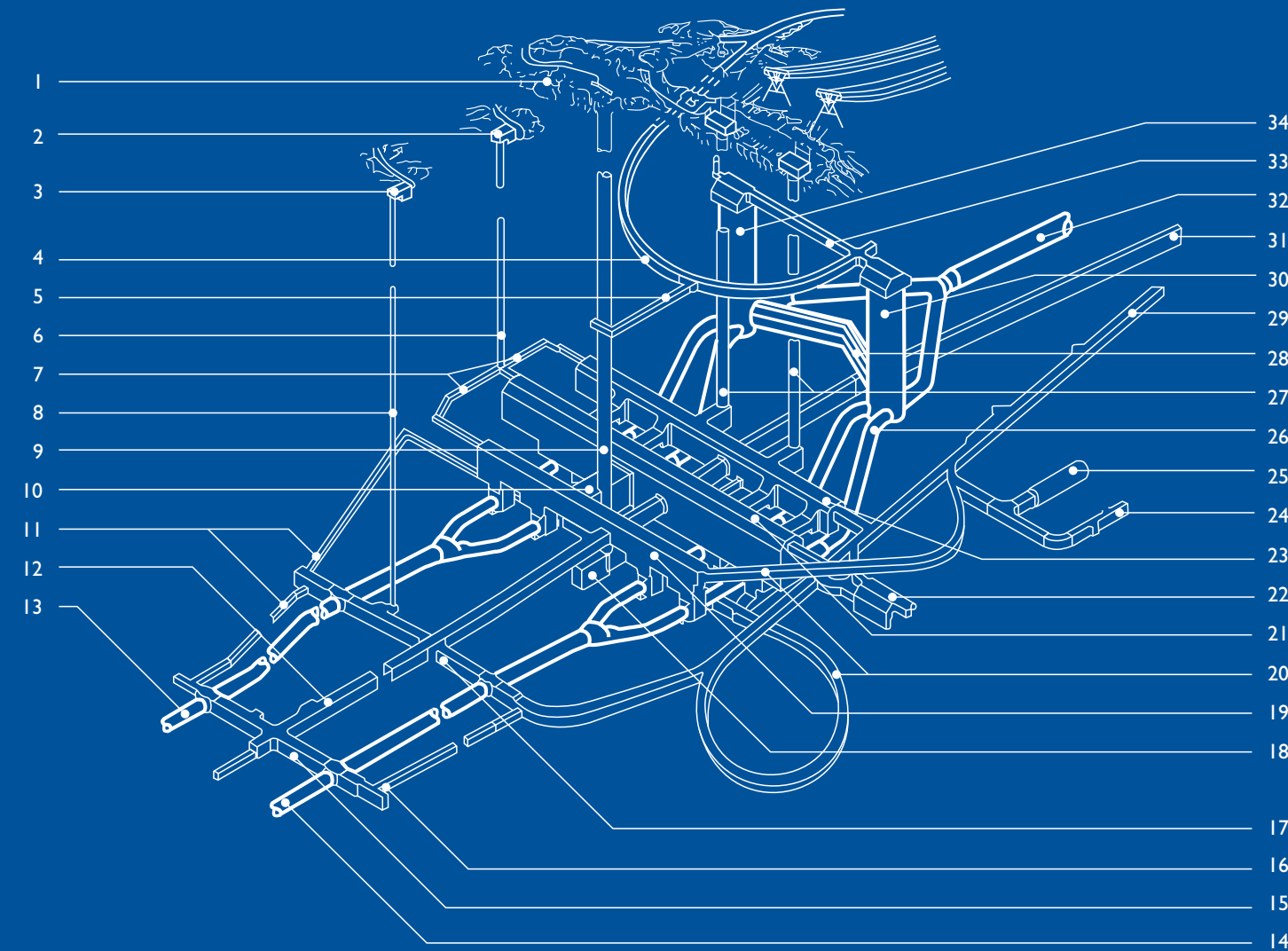
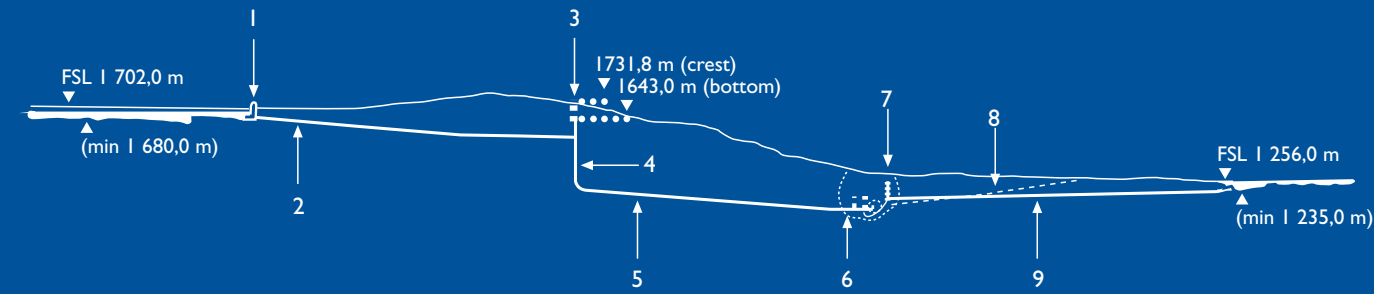


AXONOMETRIC VIEW OF THE UNDERGROUND CAVERN COMPLEX

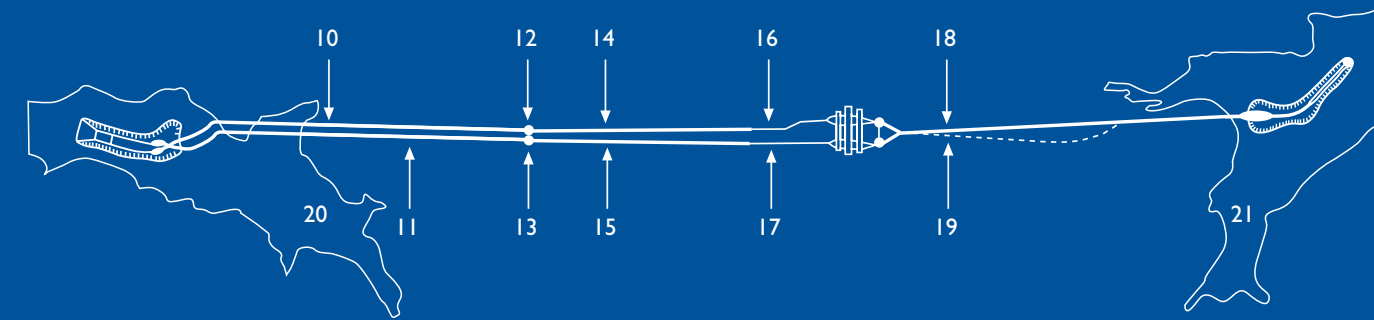


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|-----------------------------------------|-----------------------------------|--------------------------------|
| 1. Surface building | 13. Penstock 1 / 2 | 25. Penstock test chamber |
| 2. Ventilation inlet building | 14. Penstock 3 / 4 | 26. Extended draft tube tunnel |
| 3. Auxiliary ventilation inlet building | 15. Penstock drainage tunnel | 27. Busbar shafts |
| 4. Auxiliary access tunnel | 16. Relief drainage tunnel | 28. Surge tunnel |
| 5. Discharge sluiceway | 17. Penstock link tunnel | 29. Exploratory adit |
| 6. Ventilation shaft | 18. Drainage pump chamber | 30. Surge chamber 3 / 4 |
| 7. Ventilation header | 19. Valve hall | 31. Main access tunnel |
| 8. Auxiliary ventilation shaft | 20. Construction adits | 32. Tailrace tunnel |
| 9. Lift shaft | 21. Machine hall | 33. Surge chamber link tunnel |
| 10. Control block | 22. Machine hall test enlargement | 34. Surge chamber 1 / 2 |
| 11. Relief drainage tunnels | 23. Transformer hall | |
| 12. Main access tunnel extension | 24. Plate-bearing test adit | |

GENERAL LAYOUT OF DRAKENSBURG PUMPED STORAGE SCHEME LONGITUDINAL SECTION



PLAN



- | | | |
|--------------------------------------|-------------------------------------|---------------------------|
| 1. Headrace intake structure | 8. Main access tunnel | 15. Pressure tunnel 3 / 4 |
| 2. Headrace tunnels (concrete-lined) | 9. Tailrace tunnel (concrete-lined) | 16. Penstock 1 / 2 |
| 3. Surge shafts | 10. Headrace tunnel 1 / 2 | 17. Penstock 3 / 4 |
| 4. Pressure shafts (concrete-lined) | 11. Headrace tunnel 3 / 4 | 18. Tailrace tunnel |
| 5. Pressure tunnels (concrete-lined) | 12. Surge shaft 1 / 2 | 19. Main access tunnel |
| 6. Penstocks (steel lined) | 13. Surge shaft 3 / 4 | 20. Driekloof reservoir |
| 7. Underground caverns | 14. Pressure tunnel 1 / 2 | 21. Kilburn reservoir |

GENERAL LAYOUT OF THE GENERATING AND PUMPING MACHINE

