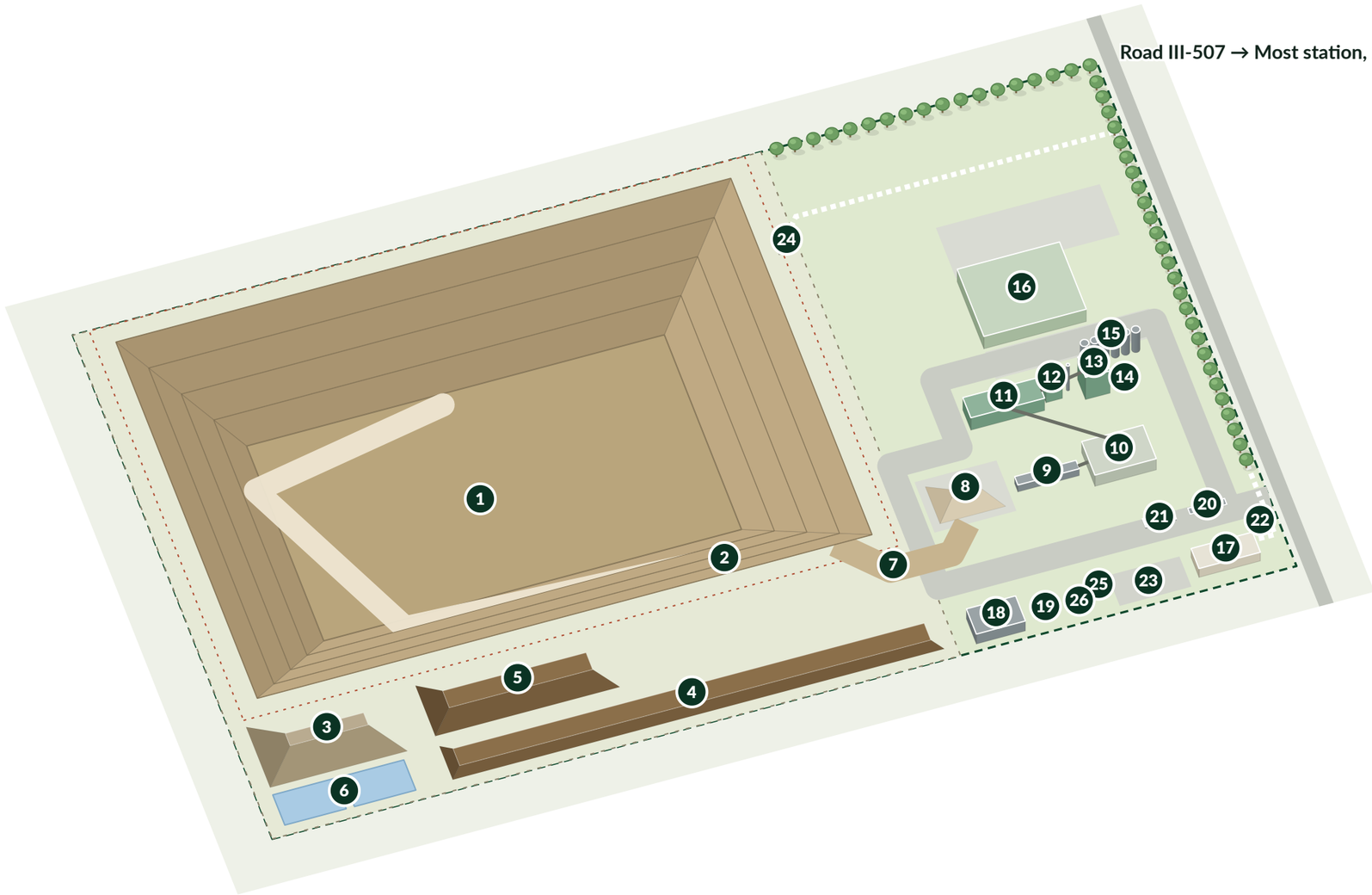
SITUATION PLAN · 15 HECTARES

A 50,000 t zeolite mine at Most, seen from above

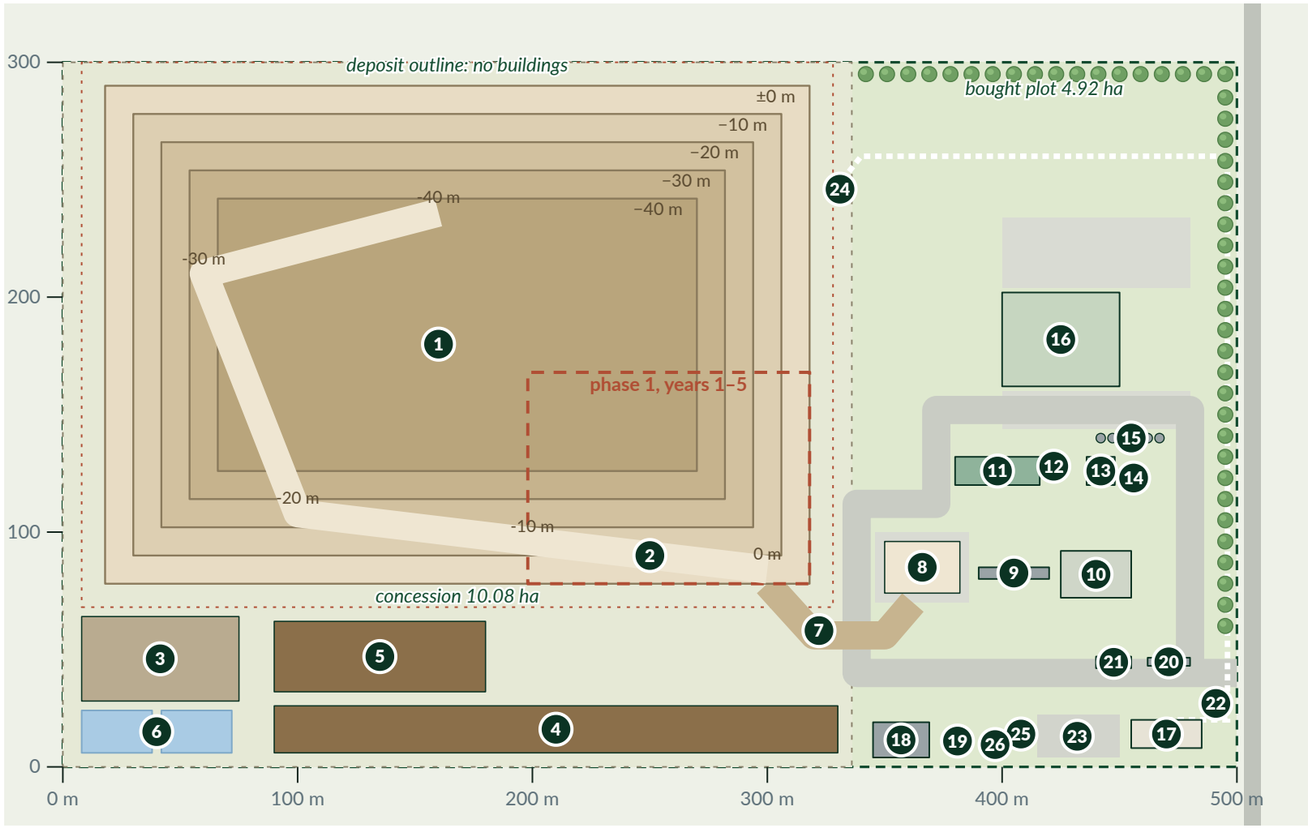


1. Open pit: four benches of 10 m, to −40 m
2. Ramp, 12 m wide, ≤ 10 %
3. Waste dump, temporary
4. Topsoil bund, also a screen
5. Subsoil heap
6. Settling ponds, two cells
7. Haul road, trucks only
8. ROM pad: dug rock, 1–2 weeks
9. Feed hopper and crushers
10. Roofed wet stockpile
11. Dryer, 15 t an hour, gas burner
12. Bag filter and 20 m stack
13. Screening tower
14. Sample preparation
15. Six product silos, ≈ 100 t each
16. Covered store, two big-bag stations
17. Office, laboratory, changing rooms, canteen
18. Workshop and spare parts
19. Fuel: 30 m³ diesel, bunded
20. Weighbridge
21. Wheel wash
22. Gate house
23. Car park and school-bus bay
24. Viewing platform over the pit
25. Water tank, 100 m³
26. Transformer, 1 MVA

Two plots. The pit fills the Hrisi concession (10.08 ha), where no building may stand on the deposit. The plant stands on 4.9 ha of bought land beside it, along the road to Most station, 1 km away, where the rock goes onto wagons for Burgas.

SITUATION PLAN · TO SCALE

The plan seen straight down, with the benches of the pit



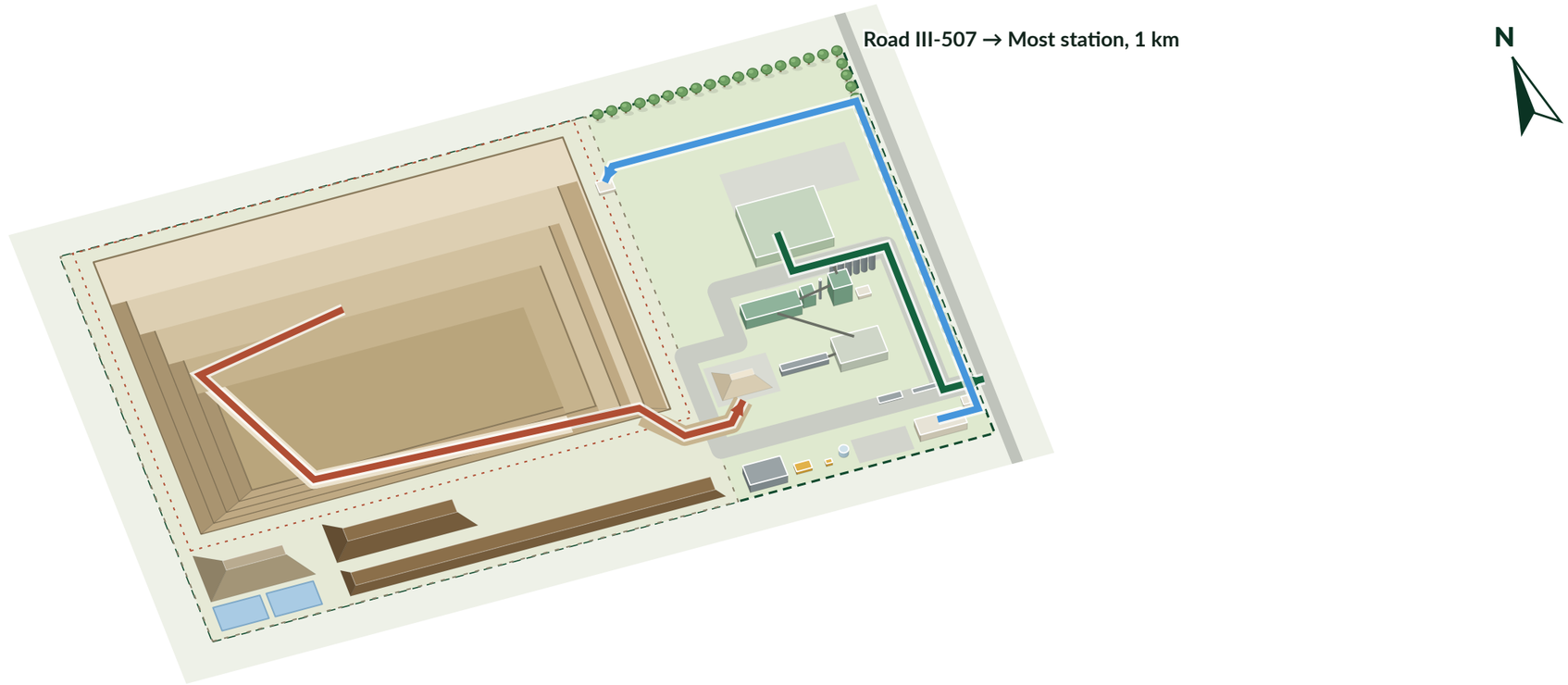
	Part	Size	Height
3	Waste dump, temporary	67 × 36 m	8 m
4	Topsoil bund, also a screen	240 × 20 m	2.5 m
5	Subsoil heap	90 × 30 m	5 m
8	ROM pad: dug rock, 1–2 weeks	32 × 22 m	6 m
9	Feed hopper and crushers	30 × 5 m	5.5 m
10	Roofed wet stockpile	30 × 20 m	9 m
11	Dryer, 15 t an hour, gas burner	36 × 12 m	10 m
12	Bag filter and 20 m stack	8 × 8 m	12 m
13	Screening tower	12 × 12 m	18 m
14	Sample preparation	8 × 6 m	3.5 m
15	Six product silos	Ø 4 m each	16 m

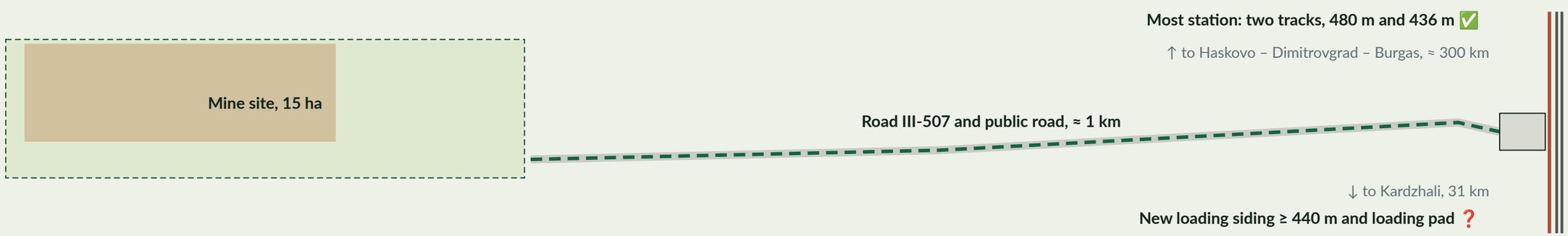
	Part	Size	Height
16	Covered store, two big-bag stations	50 × 40 m	10 m
17	Office, laboratory, changing rooms, canteen	30 × 12 m	7 m
18	Workshop and spare parts	24 × 15 m	8 m
19	Fuel: 30 m³ diesel on a bunded pad	10 × 6 m	3 m
20	Weighbridge	18 × 3.5 m	0.4 m
21	Wheel wash	15 × 5 m	1 m
22	Gate house	6 × 6 m	3 m
24	Viewing platform over the pit	10 × 8 m	3 m
25	Water tank, 100 m³	Ø 6 m	5 m
26	Transformer, 1 MVA	4 × 3 m	3 m

Pit: crest 300 × 212 m at ±0, floor 204 × 116 m at −40 m, benches 10 m high with 12 m steps; ramp 12 m wide at ≤ 10 %. Store 2,000 m² and dryer 15 t an hour from the cost model; the other sizes are proposals (knowhow/mine/07).

From the pit to the wagons

Rock: pit to ROM pad Product: store to the gate and the station Visitors on foot





- **Rock:** dump trucks up the ramp and along the haul road to the ROM pad, about 2,200 loads of 25 t a year, in campaigns ⚠️.
- **Product:** from the covered store round the loop to the gate and 1 km to Most station: about ten truck shuttles a working day ⚠️.
- **Visitors:** from the car park along a fenced footpath by the east and north fences to the platform over the pit. Pupils and trucks never share a road.
- **Rail:** the station has two tracks and no freight siding ❓. A loading track of at least 440 m is the key open item.

How the 15 hectares are used, and how the pit grows

Area	m²	Share
Concession (Hrisi)	100,800	67%
of which the deposit outline	74,240	49%
Pit at its final crest	63,600	42%
Bought plant plot	49,200	33%
Buildings, silos, tanks	4,588	3%
Heaps: waste, topsoil, subsoil	9,912	7%
Settling ponds	1,080	1%
Whole site, 500 × 300 m	**150,000**	**100%**

THE PIT

Rock inside the final pit ⚠️	1.68 million m³ ≈ 2.6 Mt
At 55,000 t dug a year	≈ 47 years
Phase 1, years 1–5	starter pit 120 × 90 m, to −20 m
Phase 2, years 6–15	westward along the south half
Phase 3, from year 16	the north half; waste back into phase 1

WHAT THE PLAN ASSUMES

- **The concession as a rectangle** of 336 × 300 m with the deposit in its north part. The real outline is in the concession contract ❓.
- **No buildings on the deposit** (concession clause 6.4.5 ✅), so the plant stands on bought land to the east.
- **Flat ground** falling gently to the south-west, where the settling ponds sit. The real ground is hilly ❓.
- **Ripping, with occasional blasting.** The quarry 7 km from Kardzhali has been ripped with a bulldozer since 1952 ✅; the Hrisi concession asks for a blasting plan ✅. No explosives are stored on site.
- **Rail at Most station, 1 km east** ✅; the side of the road and the siding are assumed.

Open: where the village houses are (this decides where the crusher and the dryer stack go), the prevailing wind, gas supply or LPG tanks, the real ground levels and drainage, and whether a siding can be built.