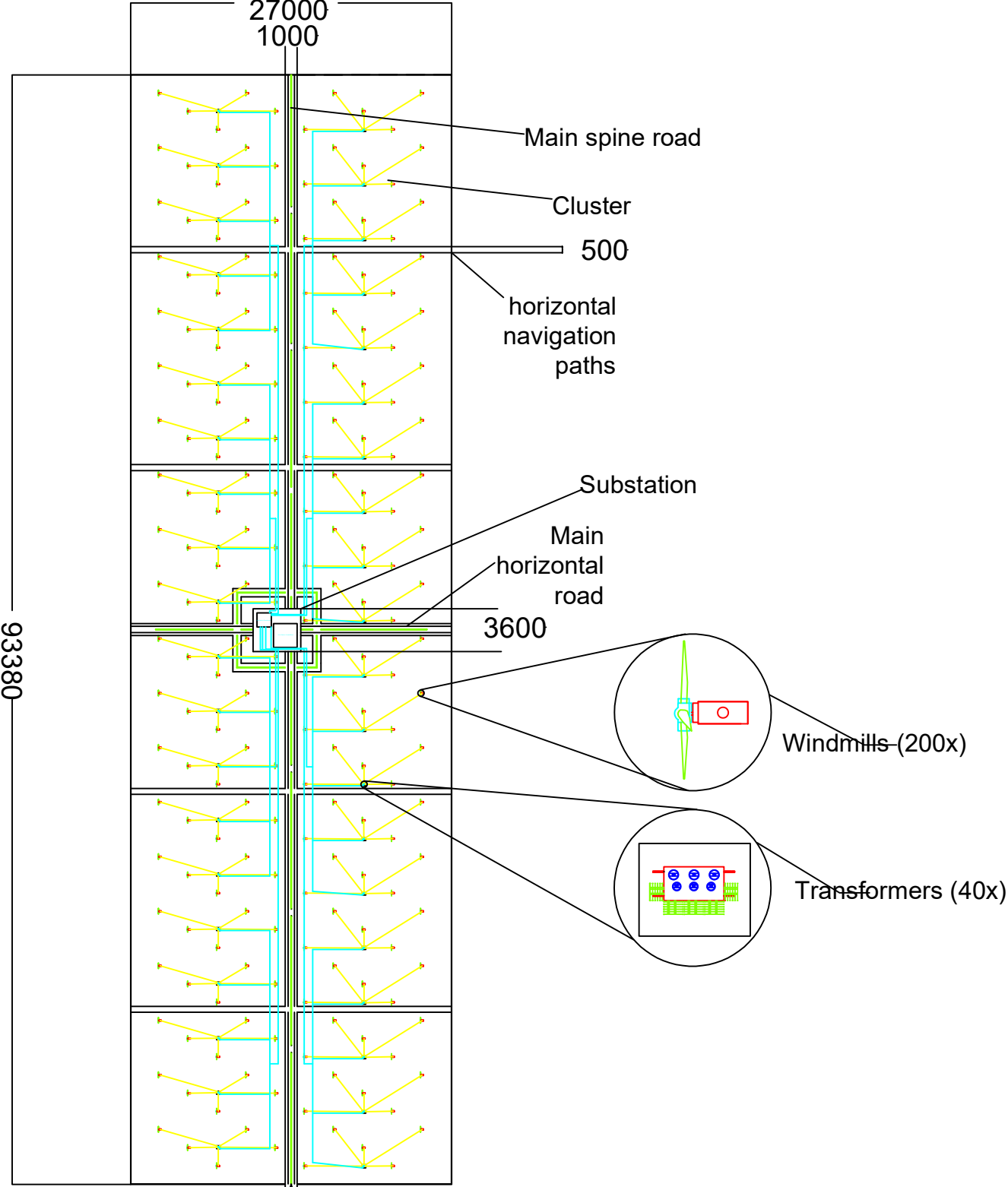




- NOTES:
1. This drawing represents a 1 MW onshore wind farm consisting of:

200 wind turbines, each rated at 5 kW (6.25 kVA)

40 step-up transformers

8 medium-voltage feeder lines

1 central substation

2. The total wind farm area is approximately 933.8 m × 270 m.

3. Turbines are arranged to optimize wind capture and maintenance access.

4. Each group of 5 wind turbines is connected to one step-up transformer.

5. Each transformer steps up turbine output voltage to medium voltage (MV) suitable for collection.

6. Five transformers are connected to one feeder line.

7. A total of 8 feeder lines terminate at the central substation.

8. One main vertical spine road is provided for primary access.

9. One main horizontal road intersects the spine road for cross-site connectivity.

10. Four secondary horizontal roads provide access to turbine rows.

11. All roads are designed for maintenance vehicle and crane access.

12. This drawing is for academic/design representation purposes.

13. Actual construction shall follow site-specific survey and statutory approvals.

14. All dimensions are in centimeters.

15. Successive cuts of wind farm are in upcoming sheets

Base layout



Wind xpertz		ME-109 Engineering Drawing		Page -/-		
Wind farm		Drawn By:				
		supervised By:				