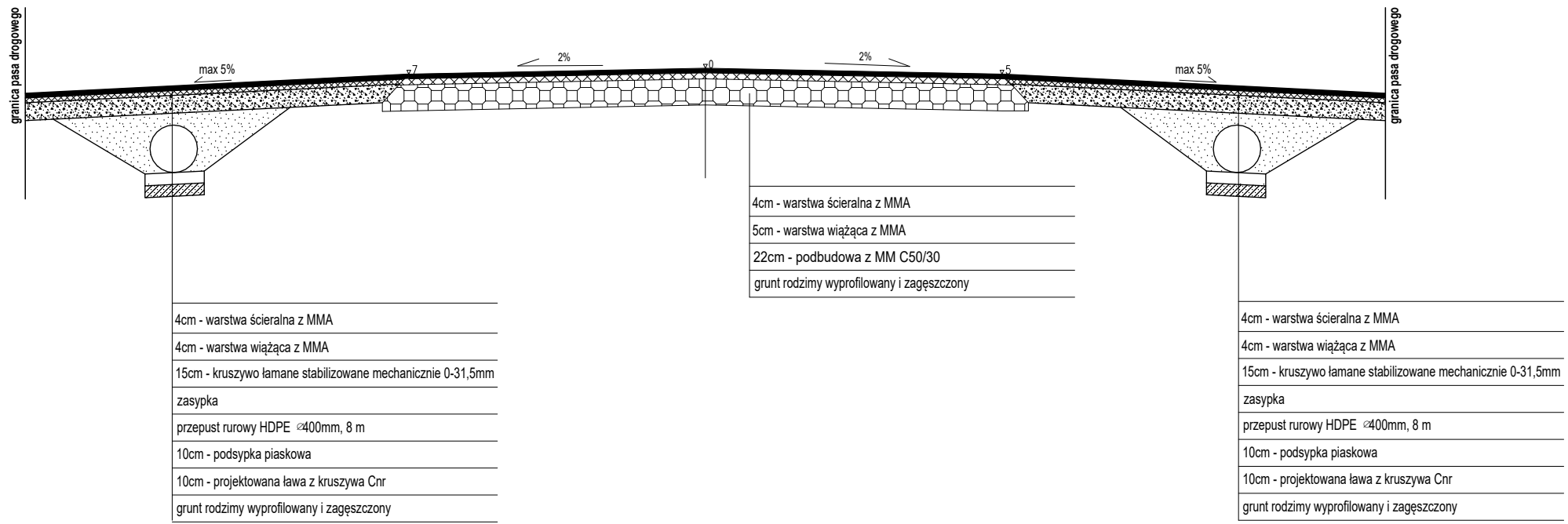


The diagram illustrates the decomposition of a 5-hour journey into segments of 2.5 hours each. It consists of a horizontal line with several tick marks. Above the line, a segment is labeled '5'. Below the line, two segments are labeled '2,5'. The segments are separated by tick marks, and the text 'długość zjazdu zmienna' (variable descent length) is written below the line on the left and right sides.



The diagram illustrates the calculation of the average value of the function $f(x) = 2x^2 + 1$ on the interval $[0, 10]$. The interval is divided into 10 subintervals of width 1. The function values at the midpoints are calculated and summed to find the average value.

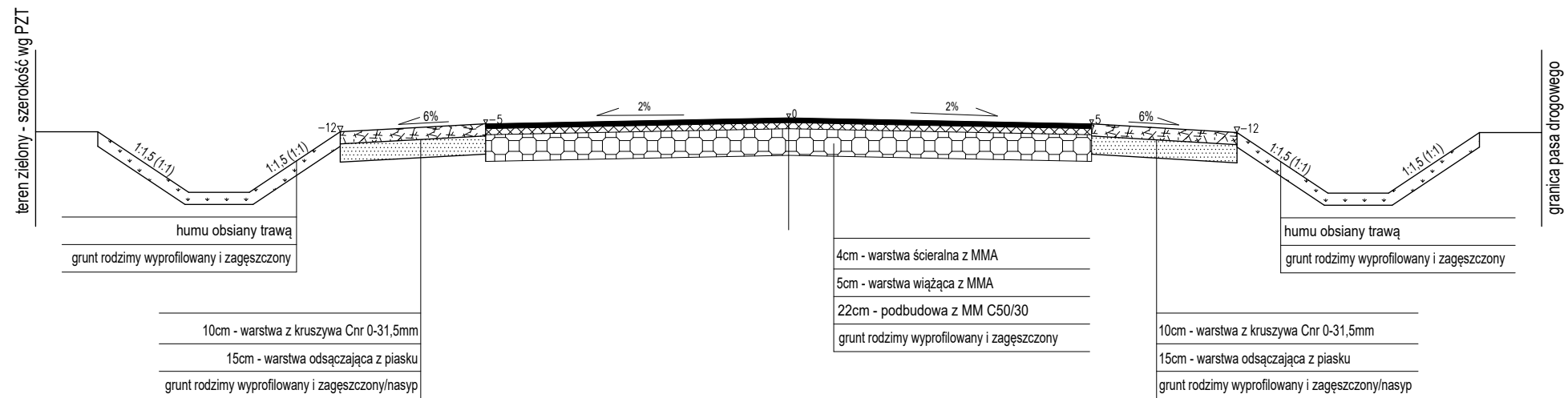
The subintervals and their midpoints are:

- $[0, 1]$ with midpoint $0,5$
- $[1, 2]$ with midpoint $1,5$
- $[2, 3]$ with midpoint $2,5$
- $[3, 4]$ with midpoint $3,5$
- $[4, 5]$ with midpoint $4,5$
- $[5, 6]$ with midpoint $5,5$
- $[6, 7]$ with midpoint $6,5$
- $[7, 8]$ with midpoint $7,5$
- $[8, 9]$ with midpoint $8,5$
- $[9, 10]$ with midpoint $9,5$

The function values at these midpoints are:

- $f(0,5) = 1,25$
- $f(1,5) = 5,25$
- $f(2,5) = 12,25$
- $f(3,5) = 23,25$
- $f(4,5) = 38,25$
- $f(5,5) = 57,25$
- $f(6,5) = 80,25$
- $f(7,5) = 107,25$
- $f(8,5) = 138,25$
- $f(9,5) = 173,25$

The average value is calculated as:

$$\frac{1}{10} \sum_{i=1}^{10} f(x_i) = \frac{1}{10} (1,25 + 5,25 + 12,25 + 23,25 + 38,25 + 57,25 + 80,25 + 107,25 + 138,25 + 173,25) = 57,5$$


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DATA: 11.03.2024r.	SKALA 1: 500	NR RYS. 1 ark 1
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