

Diagram of a beam with a triangular load and a point load. The beam has a total length of 0.02 m. A triangular load is applied from  $x=0$  to  $x=0.005$  m, with a peak intensity of 191.00 N/m. A point load of 198.80 N is applied at  $x=0.005$  m. The beam is supported by a pin support at  $x=0$  and a roller support at  $x=0.02$  m. The diagram shows the load distribution, reaction forces, and the resulting shear force and bending moment diagrams.

The longitudinal profile shows the vertical alignment of the road. The horizontal axis represents stationing from -0.01 to 0.04. The vertical axis represents elevation in meters above sea level (m.n.v.). A red line indicates the proposed grade, which rises to a peak of 198.80 m.n.v. at station 0.00. Black lines show existing ground levels. A small table in the upper right corner specifies a value of 4.68.

NÁDVYŠI PŘÍZ	4.68
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Key elevation points along the profile:

- 0.01: 191.00
- 0.005: 197.26
- 0.002: 197.29
- 0.001: 197.36
- 0.000: 197.38
- 0.001: 197.37
- 0.002: 198.04
- 0.003: 198.03
- 0.004: 198.02
- 0.005: 198.01
- 0.006: 198.00
- 0.007: 198.01
- 0.008: 197.94
- 0.009: 197.94
- 0.010: 197.94
- 0.015: 197.94
- 0.020: 197.92
- 0.025: 197.92
- 0.030: 197.92
- 0.035: 197.92
- 0.040: 197.92

The diagram shows a beam of length 30.00 m. A triangular load is applied, starting at 0.00 kN/m at the left end and increasing to a peak of 190.80 kN/m at 4.04 m, then decreasing to 0.00 kN/m at 10.73 m. The shear force diagram is shown below the beam, with values ranging from -9.64 kN to 196.11 kN. The shear force is zero at 0.01 m and 0.03 m. The maximum shear force is 196.11 kN at the right end of the beam.

CHARAKTERISTIKY	
KLB(1)DRA (P)	19.00
NÁVŮPY HŘÍZ	9.34

CHARACTERISTIKY	
d (Å)	hkl (h, k, l)
192.00	001
195.80	002



NÁVYŠŤ HRÁZ	2.91
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198.87 m n.m.

[illegible]

MAXYV HRAZ	4.41
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[illegible]

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