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 \*NEIGUNGSMESSUNG \*\*\*\*\* ABS.VERLAUF DER MEßSTRECKE\*  
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Projektname : Rauheberg Tunnel  
 Name der Bohrung: BK 7 Überstand über GOK [m]: -0.14  
 Nummer der Bohrung: 4 Anzahl der Meßschritte: 109  
 Nullmessung: 0 Uhrzeit: 09:48  
 Nummer der Meßreihe: 4 Datum: 22.03.23  
 Lage des Festpunktes: unten Sondenlänge [m]: 1.0  
 Bez. Für A+ Richtung: 10°  
 Baugrund:

| MESS-<br>KABEL-<br>MARKE | MESSINTERVALL<br>TIEFE UNTER GOK |       | AUSLENKUNG AUS<br>DER VERTIKALEN |         | GESAMTAUSLENKUNG<br>REL.ZUM FIXPUNKT |           | ABWEICHUNG<br>NULLAGE |      |
|--------------------------|----------------------------------|-------|----------------------------------|---------|--------------------------------------|-----------|-----------------------|------|
|                          | VON (m)                          | BIS   | A (cm)                           | B       | A (cm)                               | B         | A (mm)                | B    |
| 1.0                      | 0.89                             | 1.89  | 0.0150                           | 1.8350  | 117.7450                             | -176.2400 | -0.55                 | 2.05 |
| 2.0                      | 1.89                             | 2.89  | -0.1850                          | 1.3150  | 117.7300                             | -178.0750 | -0.65                 | 2.05 |
| 3.0                      | 2.89                             | 3.89  | -0.1150                          | 1.0200  | 117.9150                             | -179.3900 | -0.65                 | 1.90 |
| 4.0                      | 3.89                             | 4.89  | 0.2100                           | 0.9350  | 118.0300                             | -180.4100 | -0.60                 | 2.25 |
| 5.0                      | 4.89                             | 5.89  | -0.1400                          | 0.9850  | 117.8200                             | -181.3450 | -0.60                 | 2.05 |
| 6.0                      | 5.89                             | 6.89  | -0.7000                          | 0.3100  | 117.9600                             | -182.3300 | -0.60                 | 2.10 |
| 7.0                      | 6.89                             | 7.89  | -0.8800                          | -1.1300 | 118.6600                             | -182.6400 | -0.60                 | 1.90 |
| 8.0                      | 7.89                             | 8.89  | -0.6450                          | -1.6900 | 119.5400                             | -181.5100 | -0.65                 | 2.00 |
| 9.0                      | 8.89                             | 9.89  | -1.0550                          | -1.7050 | 120.1850                             | -179.8200 | -0.45                 | 2.05 |
| 10.0                     | 9.89                             | 10.89 | 1.0500                           | -2.7350 | 121.2400                             | -178.1150 | -0.70                 | 1.95 |
| 11.0                     | 10.89                            | 11.89 | 1.3750                           | -1.4800 | 120.1900                             | -175.3800 | -0.75                 | 2.20 |
| 12.0                     | 11.89                            | 12.89 | 0.3450                           | 0.4000  | 118.8150                             | -173.9000 | -0.65                 | 2.20 |
| 13.0                     | 12.89                            | 13.89 | -0.2100                          | -0.0950 | 118.4700                             | -174.3000 | -0.60                 | 2.15 |
| 14.0                     | 13.89                            | 14.89 | -0.0800                          | -0.2350 | 118.6800                             | -174.2050 | -0.60                 | 2.15 |
| 15.0                     | 14.89                            | 15.89 | 0.0050                           | -0.4600 | 118.7600                             | -173.9700 | -0.65                 | 2.00 |
| 16.0                     | 15.89                            | 16.89 | -1.0950                          | -0.5050 | 118.7550                             | -173.5100 | -0.55                 | 2.05 |
| 17.0                     | 16.89                            | 17.89 | -1.8000                          | 0.1700  | 119.8500                             | -173.0050 | -0.70                 | 2.00 |
| 18.0                     | 17.89                            | 18.89 | -1.0000                          | -0.4000 | 121.6500                             | -173.1750 | -0.70                 | 2.00 |
| 19.0                     | 18.89                            | 19.89 | -0.1600                          | -0.6250 | 122.6500                             | -172.7750 | -0.80                 | 2.05 |
| 20.0                     | 19.89                            | 20.89 | 0.4900                           | -0.7150 | 122.8100                             | -172.1500 | -0.70                 | 2.05 |
| 21.0                     | 20.89                            | 21.89 | 0.8600                           | -0.8100 | 122.3200                             | -171.4350 | -0.80                 | 2.00 |
| 22.0                     | 21.89                            | 22.89 | 1.0850                           | -0.9350 | 121.4600                             | -170.6250 | -0.75                 | 2.05 |
| 23.0                     | 22.89                            | 23.89 | 0.9400                           | -1.3050 | 120.3750                             | -169.6900 | -0.80                 | 2.05 |
| 24.0                     | 23.89                            | 24.89 | 1.0000                           | -1.7650 | 119.4350                             | -168.3850 | -0.90                 | 2.15 |
| 25.0                     | 24.89                            | 25.89 | 1.0100                           | -2.0450 | 118.4350                             | -166.6200 | -0.90                 | 2.05 |
| 26.0                     | 25.89                            | 26.89 | 0.5300                           | -1.8550 | 117.4250                             | -164.5750 | -0.80                 | 2.05 |
| 27.0                     | 26.89                            | 27.89 | -0.0050                          | -1.7250 | 116.8950                             | -162.7200 | -0.75                 | 1.95 |
| 28.0                     | 27.89                            | 28.89 | -0.1000                          | -1.7900 | 116.9000                             | -160.9950 | -0.70                 | 2.10 |
| 29.0                     | 28.89                            | 29.89 | 0.0550                           | -1.9500 | 117.0000                             | -159.2050 | -0.85                 | 1.90 |
| 30.0                     | 29.89                            | 30.89 | 0.0700                           | -2.1650 | 116.9450                             | -157.2550 | -0.70                 | 2.15 |
| 31.0                     | 30.89                            | 31.89 | 0.3750                           | -2.0950 | 116.8750                             | -155.0900 | -0.85                 | 2.05 |
| 32.0                     | 31.89                            | 32.89 | 0.6050                           | -1.7200 | 116.5000                             | -152.9950 | -0.75                 | 2.00 |
| 33.0                     | 32.89                            | 33.89 | 0.6750                           | -1.5500 | 115.8950                             | -151.2750 | -0.85                 | 2.00 |
| 34.0                     | 33.89                            | 34.89 | 0.7550                           | -1.3400 | 115.2200                             | -149.7250 | -0.55                 | 2.00 |
| 35.0                     | 34.89                            | 35.89 | 1.3200                           | -1.5600 | 114.4650                             | -148.3850 | -0.50                 | 2.10 |
| 36.0                     | 35.89                            | 36.89 | 1.6900                           | -1.6650 | 113.1450                             | -146.8250 | -0.70                 | 2.05 |
| 37.0                     | 36.89                            | 37.89 | 1.7100                           | -1.5000 | 111.4550                             | -145.1600 | -1.10                 | 2.00 |
| 38.0                     | 37.89                            | 38.89 | 1.5500                           | -1.3550 | 109.7450                             | -143.6600 | -1.00                 | 2.15 |
| 39.0                     | 38.89                            | 39.89 | 0.5150                           | -1.4050 | 108.1950                             | -142.3050 | -0.65                 | 2.05 |

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 Nummer der Bohrung: 4 Anzahl der Meßschritte: 109  
 Nullmessung: 0 Uhrzeit: 09:48  
 Nummer der Meßreihe: 4 Datum: 22.03.23  
 Lage des Festpunktes: unten Sondenlänge [m]: 1.0  
 Bez. Für A+ Richtung: 10°  
 Baugrund:

| MESS-<br>KABEL-<br>MARKE | MESSINTERVALL   |       | AUSLENKUNG AUS |         | GESAMTAUSLENKUNG |           | ABWEICHUNG |      |
|--------------------------|-----------------|-------|----------------|---------|------------------|-----------|------------|------|
|                          | TIEFE UNTER GOK |       | DER VERTIKALEN |         | REL.ZUM FIXPUNKT |           | NULLAGE    |      |
|                          | VON (m)         | BIS   | A (cm)         | B       | A (cm)           | B         | A (mm)     | B    |
| 40.0                     | 39.89           | 40.89 | -0.1050        | -1.6500 | 107.6800         | -140.9000 | -0.65      | 2.10 |
| 41.0                     | 40.89           | 41.89 | 1.0400         | -1.8950 | 107.7850         | -139.2500 | -0.60      | 2.05 |
| 42.0                     | 41.89           | 42.89 | 2.3350         | -3.0400 | 106.7450         | -137.3550 | -0.55      | 2.10 |
| 43.0                     | 42.89           | 43.89 | 1.6750         | -3.2100 | 104.4100         | -134.3150 | -0.65      | 2.00 |
| 44.0                     | 43.89           | 44.89 | 0.5800         | -2.4750 | 102.7350         | -131.1050 | -0.60      | 1.95 |
| 45.0                     | 44.89           | 45.89 | -0.1900        | -1.7350 | 102.1550         | -128.6300 | -0.60      | 1.95 |
| 46.0                     | 45.89           | 46.89 | -0.1450        | -0.5300 | 102.3450         | -126.8950 | -0.65      | 2.00 |
| 47.0                     | 46.89           | 47.89 | 0.4350         | 0.5550  | 102.4900         | -126.3650 | -0.75      | 2.05 |
| 48.0                     | 47.89           | 48.89 | 1.5150         | 0.0700  | 102.0550         | -126.9200 | -0.75      | 2.20 |
| 49.0                     | 48.89           | 49.89 | 1.4950         | -1.2150 | 100.5400         | -126.9900 | -0.55      | 2.15 |
| 50.0                     | 49.89           | 50.89 | 1.4250         | -1.8400 | 99.0450          | -125.7750 | -0.55      | 2.00 |
| 51.0                     | 50.89           | 51.89 | 1.3450         | -1.8100 | 97.6200          | -123.9350 | -0.65      | 2.10 |
| 52.0                     | 51.89           | 52.89 | 1.3700         | -2.0200 | 96.2750          | -122.1250 | -0.70      | 2.10 |
| 53.0                     | 52.89           | 53.89 | 1.6250         | -2.0100 | 94.9050          | -120.1050 | -0.65      | 2.00 |
| 54.0                     | 53.89           | 54.89 | 1.4900         | -1.7600 | 93.2800          | -118.0950 | -0.60      | 2.10 |
| 55.0                     | 54.89           | 55.89 | 0.8400         | -1.9100 | 91.7900          | -116.3350 | -0.60      | 2.00 |
| 56.0                     | 55.89           | 56.89 | 0.9700         | -2.1050 | 90.9500          | -114.4250 | -0.70      | 2.05 |
| 57.0                     | 56.89           | 57.89 | 1.7300         | -2.1700 | 89.9800          | -112.3200 | -0.60      | 2.00 |
| 58.0                     | 57.89           | 58.89 | 1.8500         | -2.3750 | 88.2500          | -110.1500 | -0.60      | 2.05 |
| 59.0                     | 58.89           | 59.89 | 1.7850         | -2.3100 | 86.4000          | -107.7750 | -0.65      | 2.00 |
| 60.0                     | 59.89           | 60.89 | 1.6450         | -2.1900 | 84.6150          | -105.4650 | -0.65      | 2.00 |
| 61.0                     | 60.89           | 61.89 | 1.4000         | -2.1100 | 82.9700          | -103.2750 | -0.50      | 2.00 |
| 62.0                     | 61.89           | 62.89 | 0.6850         | -2.1300 | 81.5700          | -101.1650 | -0.65      | 2.00 |
| 63.0                     | 62.89           | 63.89 | 0.6150         | -2.2250 | 80.8850          | -99.0350  | -0.65      | 2.05 |
| 64.0                     | 63.89           | 64.89 | 1.0000         | -1.9800 | 80.2700          | -96.8100  | -0.60      | 2.10 |
| 65.0                     | 64.89           | 65.89 | 1.4300         | -2.1500 | 79.2700          | -94.8300  | -0.60      | 2.10 |
| 66.0                     | 65.89           | 66.89 | 1.9800         | -2.0550 | 77.8400          | -92.6800  | -0.70      | 2.05 |
| 67.0                     | 66.89           | 67.89 | 2.0100         | -2.1400 | 75.8600          | -90.6250  | -0.60      | 2.00 |
| 68.0                     | 67.89           | 68.89 | 1.7500         | -2.4100 | 73.8500          | -88.4850  | -0.60      | 2.20 |
| 69.0                     | 68.89           | 69.89 | 1.6900         | -2.2800 | 72.1000          | -86.0750  | -0.50      | 2.20 |
| 70.0                     | 69.89           | 70.89 | 1.3900         | -2.2950 | 70.4100          | -83.7950  | -0.60      | 2.05 |
| 71.0                     | 70.89           | 71.89 | 1.2500         | -2.0400 | 69.0200          | -81.5000  | -0.70      | 2.10 |
| 72.0                     | 71.89           | 72.89 | 1.2900         | -2.0900 | 67.7700          | -79.4600  | -0.50      | 2.20 |
| 73.0                     | 72.89           | 73.89 | 1.7650         | -3.5400 | 66.4800          | -77.3700  | -0.55      | 2.10 |
| 74.0                     | 73.89           | 74.89 | 1.1200         | -4.6800 | 64.7150          | -73.8300  | -0.60      | 2.20 |
| 75.0                     | 74.89           | 75.89 | 0.7200         | -4.2750 | 63.5950          | -69.1500  | -0.80      | 2.05 |
| 76.0                     | 75.89           | 76.89 | 0.2800         | -3.1550 | 62.8750          | -64.8750  | -0.70      | 2.15 |
| 77.0                     | 76.89           | 77.89 | -0.1650        | -1.7300 | 62.5950          | -61.7200  | -0.65      | 2.10 |
| 78.0                     | 77.89           | 78.89 | 0.1600         | -0.4700 | 62.7600          | -59.9900  | -0.70      | 2.00 |
| 79.0                     | 78.89           | 79.89 | 1.3800         | 0.0900  | 62.6000          | -59.5200  | -0.60      | 2.00 |

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 Nummer der Bohrung: 4 Anzahl der Meßschritte: 109  
 Nullmessung: 0 Uhrzeit: 09:48  
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 Lage des Festpunktes: unten Sondenlänge [m]: 1.0  
 Bez. Für A+ Richtung: 10°  
 Baugrund:

| MESS-<br>KABEL-<br>MARKE | MESSINTERVALL   |        | AUSLENKUNG AUS |         | GESAMTAUSLENKUNG |          | ABWEICHUNG |      |
|--------------------------|-----------------|--------|----------------|---------|------------------|----------|------------|------|
|                          | TIEFE UNTER GOK |        | DER VERTIKALEN |         | REL.ZUM FIXPUNKT |          | NULLAGE    |      |
|                          | VON (m)         | BIS    | A (cm)         | B       | A (cm)           | B        | A (mm)     | B    |
| 80.0                     | 79.89           | 80.89  | 2.8900         | -0.0900 | 61.2200          | -59.6100 | -0.70      | 2.10 |
| 81.0                     | 80.89           | 81.89  | 3.5100         | -0.8500 | 58.3300          | -59.5200 | -0.60      | 2.20 |
| 82.0                     | 81.89           | 82.89  | 3.3950         | -2.1600 | 54.8200          | -58.6700 | -0.65      | 2.20 |
| 83.0                     | 82.89           | 83.89  | 2.8250         | -3.4350 | 51.4250          | -56.5100 | -0.55      | 2.15 |
| 84.0                     | 83.89           | 84.89  | 1.7850         | -4.4050 | 48.6000          | -53.0750 | -0.55      | 2.15 |
| 85.0                     | 84.89           | 85.89  | 0.5800         | -4.5450 | 46.8150          | -48.6700 | -0.80      | 2.05 |
| 86.0                     | 85.89           | 86.89  | 0.0700         | -3.3900 | 46.2350          | -44.1250 | -0.70      | 2.10 |
| 87.0                     | 86.89           | 87.89  | 0.5100         | -2.0450 | 46.1650          | -40.7350 | -0.70      | 2.15 |
| 88.0                     | 87.89           | 88.89  | 1.9400         | -0.8350 | 45.6550          | -38.6900 | -0.70      | 1.95 |
| 89.0                     | 88.89           | 89.89  | 4.1650         | -0.0650 | 43.7150          | -37.8550 | -0.75      | 2.05 |
| 90.0                     | 89.89           | 90.89  | 3.3400         | -0.3800 | 39.5500          | -37.7900 | -0.60      | 2.10 |
| 91.0                     | 90.89           | 91.89  | 1.7250         | -0.9250 | 36.2100          | -37.4100 | -0.65      | 2.05 |
| 92.0                     | 91.89           | 92.89  | 0.1650         | -1.3450 | 34.4850          | -36.4850 | -0.65      | 2.05 |
| 93.0                     | 92.89           | 93.89  | -0.5300        | -2.2200 | 34.3200          | -35.1400 | -0.60      | 2.10 |
| 94.0                     | 93.89           | 94.89  | 0.0000         | -2.9750 | 34.8500          | -32.9200 | -0.60      | 2.05 |
| 95.0                     | 94.89           | 95.89  | 1.0650         | -3.5250 | 34.8500          | -29.9450 | -0.55      | 2.15 |
| 96.0                     | 95.89           | 96.89  | 1.9900         | -3.6900 | 33.7850          | -26.4200 | -0.60      | 2.20 |
| 97.0                     | 96.89           | 97.89  | 3.0700         | -3.6350 | 31.7950          | -22.7300 | -0.70      | 1.95 |
| 98.0                     | 97.89           | 98.89  | 4.1950         | -2.7400 | 28.7250          | -19.0950 | -0.65      | 2.00 |
| 99.0                     | 98.89           | 99.89  | 4.4200         | -1.3600 | 24.5300          | -16.3550 | -0.60      | 2.10 |
| 100.0                    | 99.89           | 100.89 | 3.4800         | -0.0550 | 20.1100          | -14.9950 | -0.60      | 2.05 |
| 101.0                    | 100.89          | 101.89 | 1.9500         | 0.3600  | 16.6300          | -14.9400 | -0.60      | 2.10 |
| 102.0                    | 101.89          | 102.89 | 0.2400         | 0.0200  | 14.6800          | -15.3000 | -0.60      | 2.10 |
| 103.0                    | 102.89          | 103.89 | 0.1250         | -1.5450 | 14.4400          | -15.3200 | -0.65      | 2.15 |
| 104.0                    | 103.89          | 104.89 | 1.0050         | -2.1550 | 14.3150          | -13.7750 | -0.75      | 2.05 |
| 105.0                    | 104.89          | 105.89 | 1.7550         | -1.6050 | 13.3100          | -11.6200 | -0.55      | 2.15 |
| 106.0                    | 105.89          | 106.89 | 1.8700         | -1.8650 | 11.5550          | -10.0150 | -0.70      | 1.95 |
| 107.0                    | 106.89          | 107.89 | 2.1700         | -1.7650 | 9.6850           | -8.1500  | -0.60      | 1.95 |
| 108.0                    | 107.89          | 108.89 | 2.9500         | -2.6850 | 7.5150           | -6.3850  | -0.60      | 2.25 |
| 109.0                    | 108.89          | 109.89 | 4.5650         | -3.7000 | 4.5650           | -3.7000  | -0.45      | 2.10 |

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 \*NEIGUNGSMESSUNG \*\*\*\*\* MEßREIHENVERGLEICH\*  
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Projektname: Rauheberg Tunnel  
 Name der Bohrung: BK 7 Überstand über GOK [m]: -0.14  
 Nummer der Bohrung: 4 Anzahl der Meßschritte: 109  
 Vergleichsmeßreihenr.: 0 Datum: 20.04.22  
 Meßreihenr.: 4 Datum: 22.03.23  
 Lage des Festpunktes: unten Sondenlänge [m]: 1.0  
 Bez. Für A+ Richtung: 10°  
 Baugrund:

| MESS-<br>KABEL-<br>MARKE | MESSINTERVALL<br>TIEFE UNTER GOK<br>VON (m) BIS | DIFFERENZ ZUR<br>MEßREIHE: 0<br>A (cm) B | BEWEGUNGS-<br>RATE<br>(mm/Tag) |
|--------------------------|-------------------------------------------------|------------------------------------------|--------------------------------|
| 1.0                      | 0.89 1.89                                       | -0.2900 -0.1050                          | 0.00863                        |
| 2.0                      | 1.89 2.89                                       | -0.3300 -0.1000                          | 0.00982                        |
| 3.0                      | 2.89 3.89                                       | -0.3550 -0.0900                          | 0.01057                        |
| 4.0                      | 3.89 4.89                                       | -0.3900 -0.0950                          | 0.01161                        |
| 5.0                      | 4.89 5.89                                       | -0.3900 -0.0700                          | 0.01161                        |
| 6.0                      | 5.89 6.89                                       | -0.4050 -0.0850                          | 0.01205                        |
| 7.0                      | 6.89 7.89                                       | -0.4100 -0.0550                          | 0.01220                        |
| 8.0                      | 7.89 8.89                                       | -0.4150 -0.0700                          | 0.01235                        |
| 9.0                      | 8.89 9.89                                       | -0.3950 -0.1050                          | 0.01176                        |
| 10.0                     | 9.89 10.89                                      | -0.3700 -0.0900                          | 0.01101                        |
| 11.0                     | 10.89 11.89                                     | -0.3800 -0.0850                          | 0.01131                        |
| 12.0                     | 11.89 12.89                                     | -0.3100 -0.0500                          | 0.00923                        |
| 13.0                     | 12.89 13.89                                     | -0.2900 -0.0650                          | 0.00863                        |
| 14.0                     | 13.89 14.89                                     | -0.2850 -0.0450                          | 0.00848                        |
| 15.0                     | 14.89 15.89                                     | -0.2950 -0.0550                          | 0.00878                        |
| 16.0                     | 15.89 16.89                                     | -0.2950 -0.0500                          | 0.00878                        |
| 17.0                     | 16.89 17.89                                     | -0.2550 -0.0850                          | 0.00759                        |
| 18.0                     | 17.89 18.89                                     | -0.2300 -0.1200                          | 0.00685                        |
| 19.0                     | 18.89 19.89                                     | -0.0750 -0.1900                          | 0.00223                        |
| 20.0                     | 19.89 20.89                                     | 0.1250 -0.2600                           | 0.00372                        |
| 21.0                     | 20.89 21.89                                     | 0.3700 -0.3200                           | 0.01101                        |
| 22.0                     | 21.89 22.89                                     | 0.5200 -0.4200                           | 0.01548                        |
| 23.0                     | 22.89 23.89                                     | 0.5500 -0.5100                           | 0.01637                        |
| 24.0                     | 23.89 24.89                                     | 0.4250 -0.5550                           | 0.01265                        |
| 25.0                     | 24.89 25.89                                     | 0.2000 -0.5000                           | 0.00595                        |
| 26.0                     | 25.89 26.89                                     | -0.0400 -0.3600                          | 0.00119                        |
| 27.0                     | 26.89 27.89                                     | -0.1550 -0.2100                          | 0.00461                        |
| 28.0                     | 27.89 28.89                                     | -0.2000 -0.1400                          | 0.00595                        |
| 29.0                     | 28.89 29.89                                     | -0.1850 -0.1250                          | 0.00551                        |
| 30.0                     | 29.89 30.89                                     | -0.1550 -0.1350                          | 0.00461                        |
| 31.0                     | 30.89 31.89                                     | -0.1400 -0.1100                          | 0.00417                        |
| 32.0                     | 31.89 32.89                                     | -0.1750 -0.1100                          | 0.00521                        |
| 33.0                     | 32.89 33.89                                     | -0.2000 -0.1250                          | 0.00595                        |
| 34.0                     | 33.89 34.89                                     | -0.2100 -0.1600                          | 0.00625                        |
| 35.0                     | 34.89 35.89                                     | -0.2200 -0.2150                          | 0.00655                        |
| 36.0                     | 35.89 36.89                                     | -0.2250 -0.2250                          | 0.00670                        |
| 37.0                     | 36.89 37.89                                     | -0.2300 -0.1950                          | 0.00685                        |
| 38.0                     | 37.89 38.89                                     | -0.2500 -0.1600                          | 0.00744                        |
| 39.0                     | 38.89 39.89                                     | -0.2200 -0.1200                          | 0.00655                        |

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 \*NEIGUNGSMESSUNG \*\*\*\*\* MEßREIHENVERGLEICH\*  
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Projektname: Rauheberg Tunnel  
 Name der Bohrung: BK 7 Überstand über GOK [m]: -0.14  
 Nummer der Bohrung: 4 Anzahl der Meßschritte: 109  
 Vergleichsmeßreihenr.: 0 Datum: 20.04.22  
 Meßreihenr.: 4 Datum: 22.03.23  
 Lage des Festpunktes: unten Sondenlänge [m]: 1.0  
 Bez. Für A+ Richtung: 10°  
 Baugrund:

| MESS-<br>KABEL-<br>MARKE | MESSINTERVALL<br>TIEFE UNTER GOK<br>VON (m) BIS | DIFFERENZ ZUR<br>MEßREIHE: 0<br>A (cm) B | BEWEGUNGS-<br>RATE<br>(mm/Tag) |
|--------------------------|-------------------------------------------------|------------------------------------------|--------------------------------|
| 40.0                     | 39.89                                           | 40.89                                    | -0.1750 -0.1200 0.00521        |
| 41.0                     | 40.89                                           | 41.89                                    | -0.1650 -0.1200 0.00491        |
| 42.0                     | 41.89                                           | 42.89                                    | -0.2300 -0.1000 0.00685        |
| 43.0                     | 42.89                                           | 43.89                                    | -0.2150 -0.0450 0.00640        |
| 44.0                     | 43.89                                           | 44.89                                    | -0.1700 -0.0500 0.00506        |
| 45.0                     | 44.89                                           | 45.89                                    | -0.1300 -0.0700 0.00387        |
| 46.0                     | 45.89                                           | 46.89                                    | -0.1150 -0.1000 0.00342        |
| 47.0                     | 46.89                                           | 47.89                                    | -0.1100 -0.1850 0.00327        |
| 48.0                     | 47.89                                           | 48.89                                    | -0.1600 -0.2050 0.00476        |
| 49.0                     | 48.89                                           | 49.89                                    | -0.1750 -0.1600 0.00521        |
| 50.0                     | 49.89                                           | 50.89                                    | -0.1650 -0.1150 0.00491        |
| 51.0                     | 50.89                                           | 51.89                                    | -0.1600 -0.1050 0.00476        |
| 52.0                     | 51.89                                           | 52.89                                    | -0.1550 -0.1100 0.00461        |
| 53.0                     | 52.89                                           | 53.89                                    | -0.1550 -0.0950 0.00461        |
| 54.0                     | 53.89                                           | 54.89                                    | -0.1600 -0.1100 0.00476        |
| 55.0                     | 54.89                                           | 55.89                                    | -0.1400 -0.0950 0.00417        |
| 56.0                     | 55.89                                           | 56.89                                    | -0.1200 -0.1100 0.00357        |
| 57.0                     | 56.89                                           | 57.89                                    | -0.1550 -0.1000 0.00461        |
| 58.0                     | 57.89                                           | 58.89                                    | -0.1850 -0.1050 0.00551        |
| 59.0                     | 58.89                                           | 59.89                                    | -0.1650 -0.0850 0.00491        |
| 60.0                     | 59.89                                           | 60.89                                    | -0.1600 -0.1050 0.00476        |
| 61.0                     | 60.89                                           | 61.89                                    | -0.1500 -0.0950 0.00446        |
| 62.0                     | 61.89                                           | 62.89                                    | -0.1100 -0.1050 0.00327        |
| 63.0                     | 62.89                                           | 63.89                                    | -0.0750 -0.1050 0.00223        |
| 64.0                     | 63.89                                           | 64.89                                    | -0.0950 -0.1050 0.00283        |
| 65.0                     | 64.89                                           | 65.89                                    | -0.1000 -0.1200 0.00298        |
| 66.0                     | 65.89                                           | 66.89                                    | -0.1200 -0.1150 0.00357        |
| 67.0                     | 66.89                                           | 67.89                                    | -0.1400 -0.1300 0.00417        |
| 68.0                     | 67.89                                           | 68.89                                    | -0.1050 -0.1050 0.00312        |
| 69.0                     | 68.89                                           | 69.89                                    | -0.1050 -0.0800 0.00312        |
| 70.0                     | 69.89                                           | 70.89                                    | -0.0950 -0.0750 0.00283        |
| 71.0                     | 70.89                                           | 71.89                                    | -0.0750 -0.1000 0.00223        |
| 72.0                     | 71.89                                           | 72.89                                    | -0.0700 -0.1350 0.00208        |
| 73.0                     | 72.89                                           | 73.89                                    | -0.0750 -0.1100 0.00223        |
| 74.0                     | 73.89                                           | 74.89                                    | -0.0550 -0.0050 0.00164        |
| 75.0                     | 74.89                                           | 75.89                                    | 0.0000 0.0200 0.00000          |
| 76.0                     | 75.89                                           | 76.89                                    | 0.0350 -0.0300 0.00104         |
| 77.0                     | 76.89                                           | 77.89                                    | 0.0750 -0.1200 0.00223         |
| 78.0                     | 77.89                                           | 78.89                                    | 0.1050 -0.2250 0.00313         |
| 79.0                     | 78.89                                           | 79.89                                    | 0.0550 -0.2850 0.00164         |

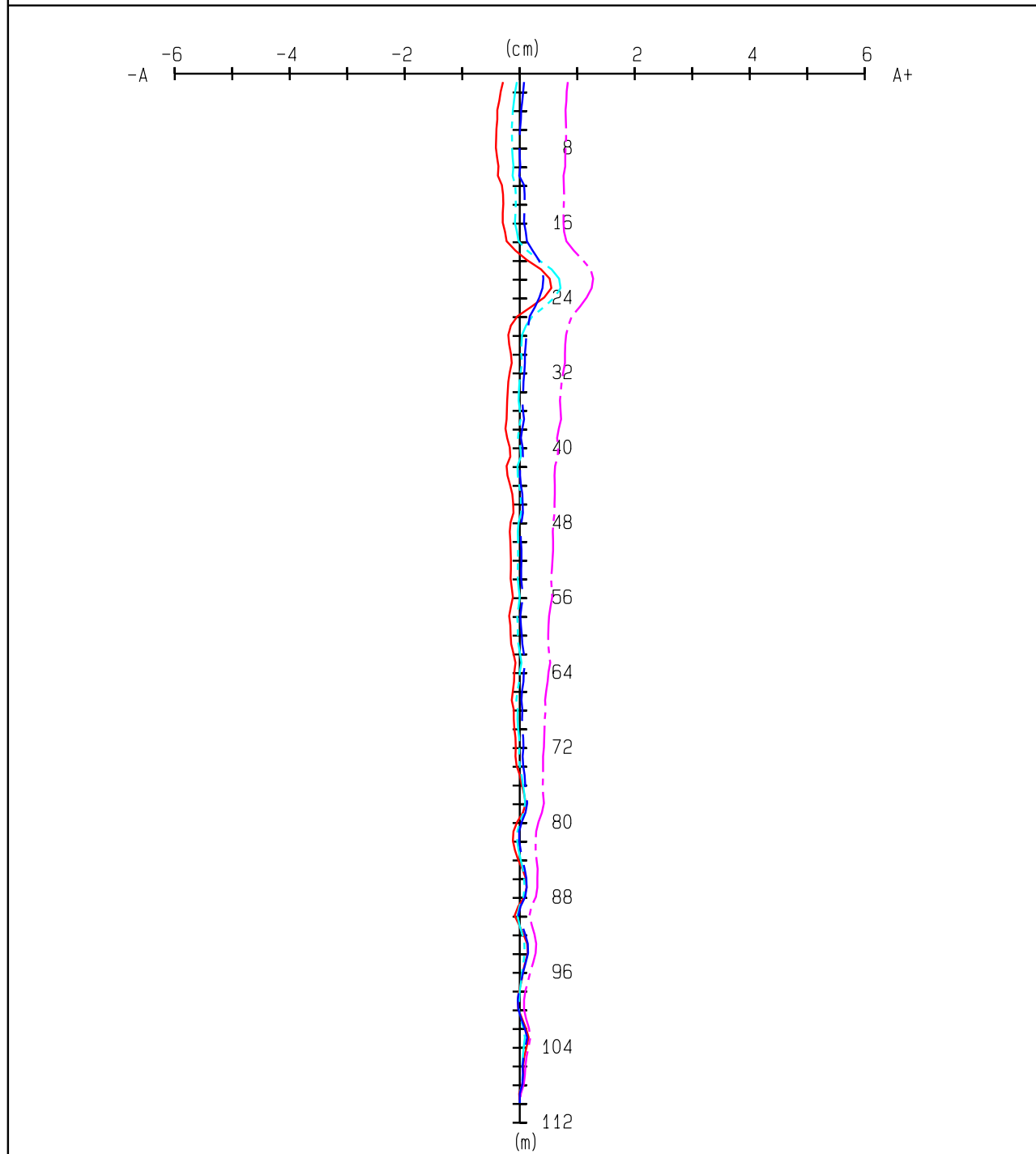
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 \*NEIGUNGSMESSUNG \*\*\*\*\* MEßREIHENVERGLEICH\*  
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Projektname: Rauheberg Tunnel  
 Name der Bohrung: BK 7 Überstand über GOK [m]: -0.14  
 Nummer der Bohrung: 4 Anzahl der Meßschritte: 109  
 Vergleichsmeßreihenr.: 0 Datum: 20.04.22  
 Meßreihenr.: 4 Datum: 22.03.23  
 Lage des Festpunktes: unten Sondenlänge [m]: 1.0  
 Bez. Für A+ Richtung: 10°  
 Baugrund:

| MESS-<br>KABEL-<br>MARKE | MESSINTERVALL<br>TIEFE UNTER GOK<br>VON (m) BIS | DIFFERENZ ZUR<br>MEßREIHE: 0<br>A (cm) B | BEWEGUNGS-<br>RATE<br>(mm/Tag) |
|--------------------------|-------------------------------------------------|------------------------------------------|--------------------------------|
| 80.0                     | 79.89                                           | 80.89                                    | -0.0450 -0.2950 0.00134        |
| 81.0                     | 80.89                                           | 81.89                                    | -0.1100 -0.2500 0.00327        |
| 82.0                     | 81.89                                           | 82.89                                    | -0.1200 -0.1700 0.00357        |
| 83.0                     | 82.89                                           | 83.89                                    | -0.0850 -0.0900 0.00253        |
| 84.0                     | 83.89                                           | 84.89                                    | -0.0300 -0.0000 0.00089        |
| 85.0                     | 84.89                                           | 85.89                                    | 0.0450 0.0450 0.00134          |
| 86.0                     | 85.89                                           | 86.89                                    | 0.1050 0.0150 0.00313          |
| 87.0                     | 86.89                                           | 87.89                                    | 0.1200 -0.0850 0.00357         |
| 88.0                     | 87.89                                           | 88.89                                    | 0.0800 -0.1550 0.00238         |
| 89.0                     | 88.89                                           | 89.89                                    | -0.0250 -0.2300 0.00074        |
| 90.0                     | 89.89                                           | 90.89                                    | -0.0900 -0.2300 0.00268        |
| 91.0                     | 90.89                                           | 91.89                                    | -0.0100 -0.2100 0.00030        |
| 92.0                     | 91.89                                           | 92.89                                    | 0.0650 -0.1800 0.00193         |
| 93.0                     | 92.89                                           | 93.89                                    | 0.1300 -0.1600 0.00387         |
| 94.0                     | 93.89                                           | 94.89                                    | 0.1400 -0.1100 0.00417         |
| 95.0                     | 94.89                                           | 95.89                                    | 0.0950 -0.0850 0.00283         |
| 96.0                     | 95.89                                           | 96.89                                    | 0.0550 -0.0800 0.00164         |
| 97.0                     | 96.89                                           | 97.89                                    | 0.0300 -0.0700 0.00089         |
| 98.0                     | 97.89                                           | 98.89                                    | -0.0100 -0.0650 0.00030        |
| 99.0                     | 98.89                                           | 99.89                                    | -0.0350 -0.1250 0.00104        |
| 100.0                    | 99.89                                           | 100.89                                   | -0.0250 -0.1750 0.00074        |
| 101.0                    | 100.89                                          | 101.89                                   | 0.0400 -0.2250 0.00119         |
| 102.0                    | 101.89                                          | 102.89                                   | 0.1050 -0.2400 0.00313         |
| 103.0                    | 102.89                                          | 103.89                                   | 0.1550 -0.1950 0.00461         |
| 104.0                    | 103.89                                          | 104.89                                   | 0.1200 -0.1150 0.00357         |
| 105.0                    | 104.89                                          | 105.89                                   | 0.0800 -0.1350 0.00238         |
| 106.0                    | 105.89                                          | 106.89                                   | 0.0600 -0.1500 0.00179         |
| 107.0                    | 106.89                                          | 107.89                                   | 0.0650 -0.1250 0.00193         |
| 108.0                    | 107.89                                          | 108.89                                   | 0.0450 -0.1200 0.00134         |
| 109.0                    | 108.89                                          | 109.89                                   | -0.0100 -0.0200 0.00030        |

## INKLINOMETERMESSUNG

|                                                           |                          |                                         |                          |
|-----------------------------------------------------------|--------------------------|-----------------------------------------|--------------------------|
| PROJEKTNAME:                                              | Rauheberg Tunnel         | MESSTELLE NR.:                          | BK 7                     |
| ÄNDERUNG DES MESSSTRECKENVERLAUFS BEZUEGLICH DER MESSUNG: | vom: 0                   |                                         | 20.04.22                 |
| <span style="color: red;">—</span>                        | MESSUNG: 4 vom: 22.03.23 | <span style="color: cyan;">- - -</span> | MESSUNG: 3 vom: 13.12.22 |
| <span style="color: magenta;">- - -</span>                | MESSUNG: 2 vom: 21.09.22 | <span style="color: blue;">—</span>     | MESSUNG: 1 vom: 29.06.22 |



## INKLINOMETERMESSUNG

|                                                          |                          |                |                          |
|----------------------------------------------------------|--------------------------|----------------|--------------------------|
| PROJEKTNAME:                                             | Rauheberg Tunnel         | MESSTELLE NR.: | BK 7                     |
| ÄNDERUNG DES MESSSTRECKENVERLAUFS BEZUGLICH DER MESSUNG: | vom: 0                   |                | 20.04.22                 |
| —                                                        | MESSUNG: 4 vom: 22.03.23 | —              | MESSUNG: 3 vom: 13.12.22 |
| - -                                                      | MESSUNG: 2 vom: 21.09.22 | - -            | MESSUNG: 1 vom: 29.06.22 |

