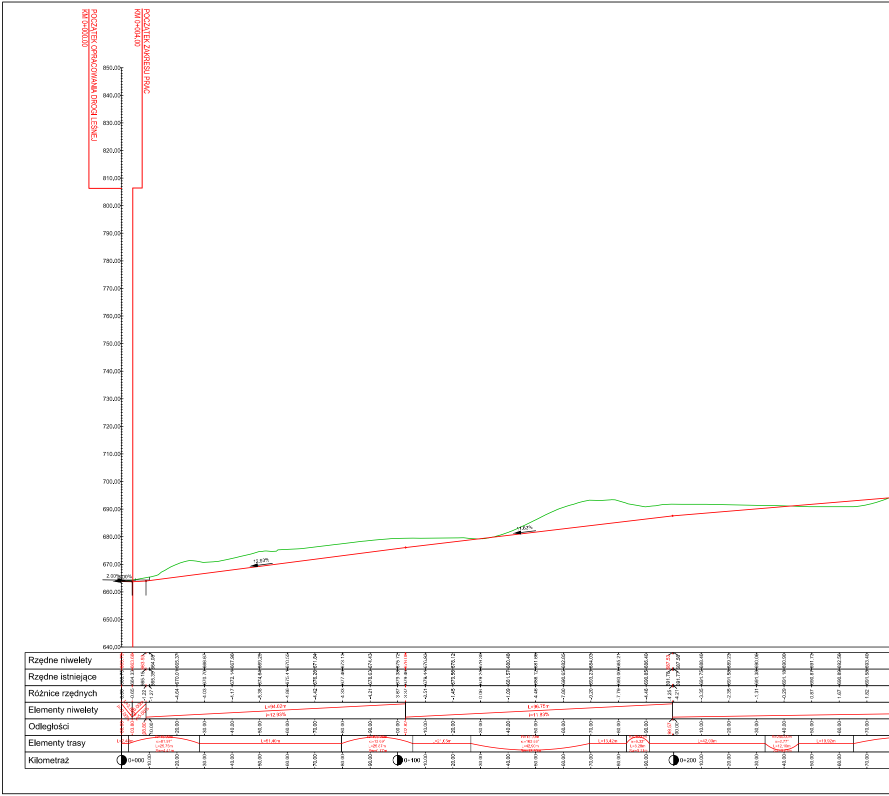
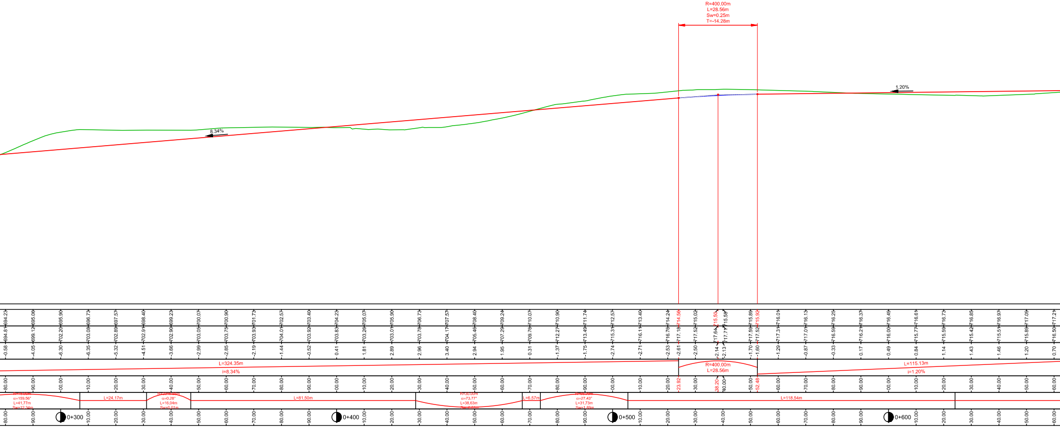
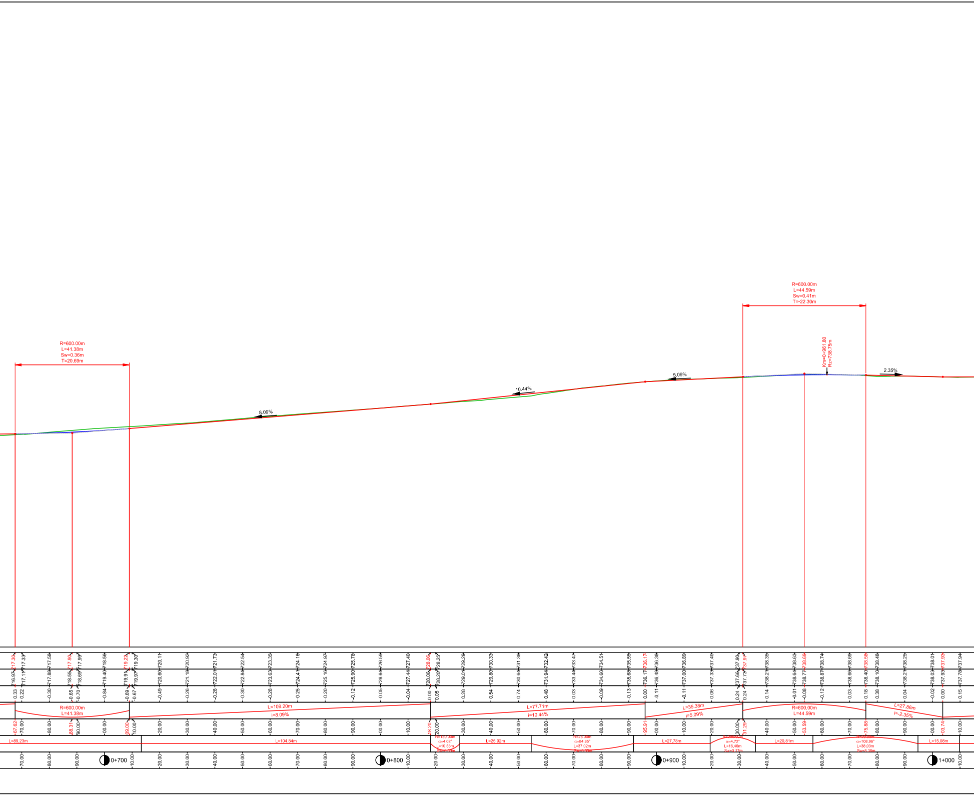
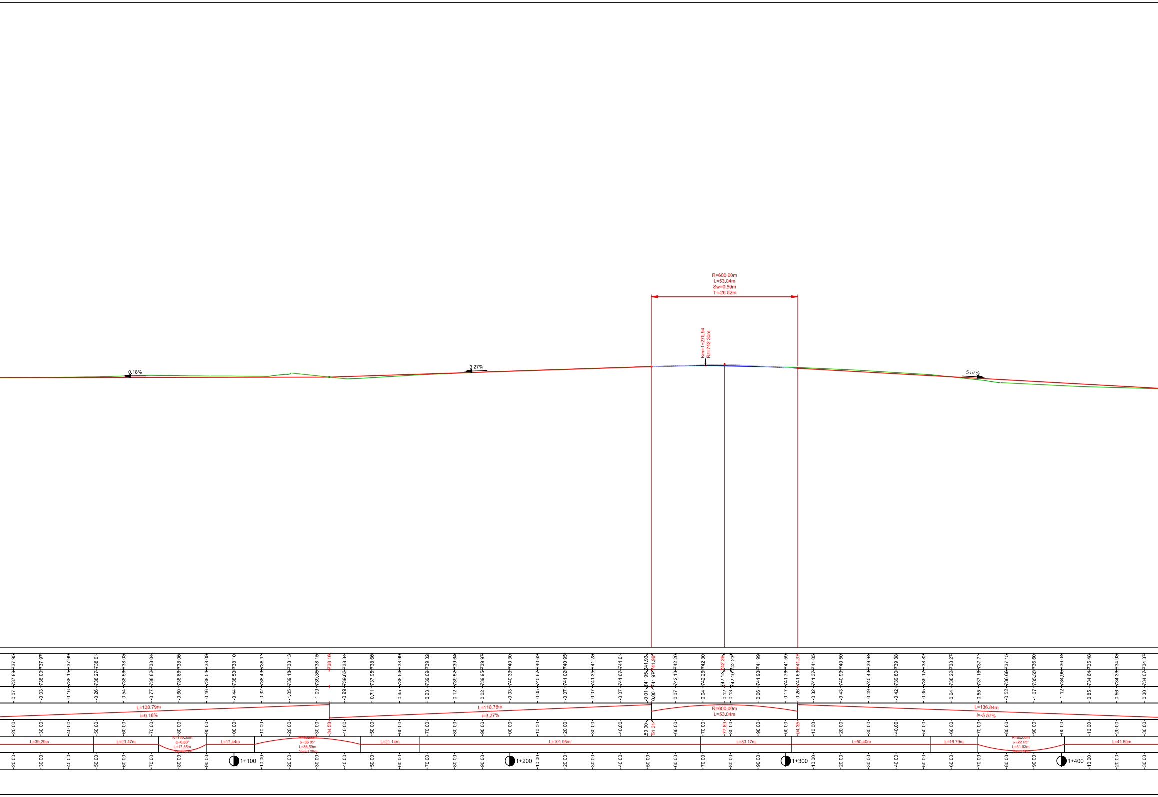
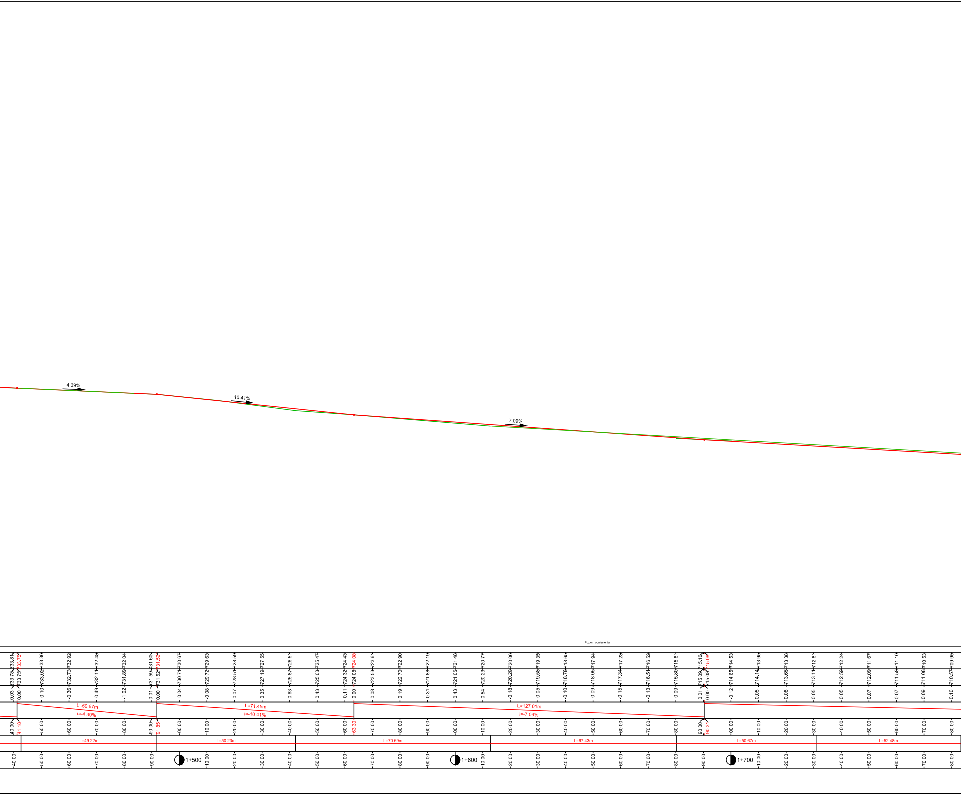

POCZĄTEK OPRACOWANIA DROGI LEŚNEJ
KM 0+000,00
POCZĄTEK ZAKRESU PRAC
KM 0+004,00
850.00
840.00
830.00
820.00
810.00
800.00
790.00
780.00
770.00
760.00
750.00
740.00
730.00
720.00
710.00
700.00
690.00
680.00
670.00
660.00
650.00
640.00
2.00%
5.00%
12.93%
11.83%
Rzędne niwelety
663.75 663.68 663.93 664.08 665.37 666.67 667.96 669.25 670.55 671.84 673.13 674.43 675.72 676.08 676.93 678.12 679.30 680.48 681.66 682.85 684.03 685.21 686.40 687.53 687.56 688.40 689.23 690.06 690.90 691.73 692.56 693.40
Rzędne istniejące
663.75 664.33 665.15 665.35 670.01 670.70 672.14 674.64 675.41 676.26 677.46 678.63 679.38 679.46 679.44 679.56 679.24 681.57 686.12 690.65 693.23 693.00 690.85 691.78 691.77 691.75 691.58 691.38 691.19 690.87 690.89 691.58
Różnice rzędnych
0.00 -0.65 -1.22 -1.27 -4.64 -4.03 -4.17 -5.38 -4.86 -4.42 -4.33 -4.21 -3.67 -3.37 -2.51 -1.45 0.06 -1.09 -4.46 -7.80 -9.20 -7.79 -4.46 -4.25 -4.21 -3.35 -2.35 -1.31 -0.29 0.87 1.67 1.82
Elementy niwelety
i=2.00%
L=3.80m
L=5.00m
i=5.00%
L=94.02m
i=12.93%
L=96.75m
i=11.83%
Odległości
00.00 03.80 08.80 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 02.82 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 99.57 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00
Elementy trasy
L=2.48m
R=18.00m
α=81.97°
L=25.75m
Sw=4.41m
L=51.40m
R=108.26m
α=13.69°
L=25.87m
Sw=0.77m
L=21.05m
R=15.00m
α=163.88°
L=42.90m
Sw=12.90m
L=13.42m
α=6.33°
L=8.28m
Sw=0.11m
L=42.00m
R=250.00m
α=2.77°
L=12.10m
Sw=0.07m
L=19.92m
Kilometraż
0+000 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
0+100 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
0+200 10.00 20.00 30.00 40.00 50.00 60.00 70.00

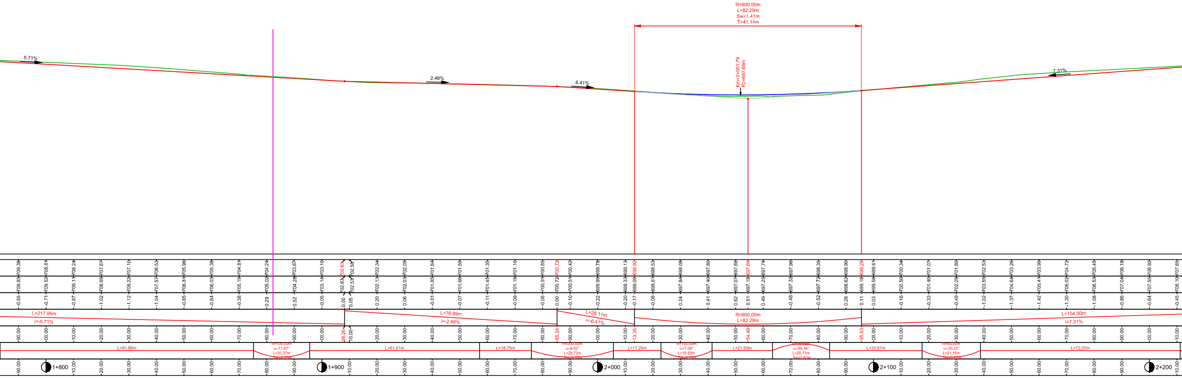

R=400.00m
L=28.56m
Sw=0.25m
T=-14.28m
8.34%
1.20%
694.23 695.06 695.90 696.73 697.57 698.40 699.23 700.07 700.90 701.73 702.57 703.40 704.23 705.07 705.90 706.73 707.57 708.40 709.24 710.07 710.90 711.74 712.57 713.40 714.24 714.56 715.02 715.50 715.58 715.89 715.92 716.01 716.13 716.25 716.37 716.49 716.61 716.73 716.85 716.97 717.09 717.21
684.81 699.12 702.20 703.09 702.89 702.91 702.90 703.05 703.75 703.93 704.01 703.92 703.83 703.26 703.01 703.70 704.17 705.46 707.29 709.76 712.27 713.49 715.31 716.11 716.76 717.18 717.52 717.64 717.71 717.59 717.52 717.31 717.01 716.59 716.21 716.00 715.77 715.59 715.42 715.51 715.89 716.50
-0.58 -4.05 -6.30 -6.35 -5.32 -4.51 -3.66 -2.99 -2.85 -2.19 -1.44 -0.52 0.41 1.81 2.89 2.96 3.40 2.94 1.95 0.31 -1.37 -1.75 -2.74 -2.71 -2.53 -2.61 -2.50 -2.14 -2.13 -1.70 -1.60 -1.29 -0.87 -0.33 0.17 0.49 0.84 1.14 1.43 1.46 1.20 0.70
L=324.35m
i=8.34%
R=400.00m
L=28.56m
L=115.13m
i=1.20%
80.00 90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00 23.92 30.00 38.20 40.00 50.00 52.48 60.00 70.00 80.00 90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00
α=159.56°
L=41.77m
Sw=12.34m
L=24.17m
α=0.28°
L=16.04m
Sw=0.01m
L=81.50m
R=30.00m
α=73.77°
L=38.63m
L=6.57m
α=27.43°
L=31.73m
Sw=1.89m
L=118.54m
80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00
0+300
0+400
0+500
0+600


R=600.00m
L=41.38m
Sw=0.36m
T=20.69m
8.09%
10.44%
5.09%
R=600.00m
L=44.59m
Sw=0.41m
T=22.30m
Km=0+961.80
Rz=738.75m
2.35%
R=600.00m
L=41.38m
L=109.20m
i=8.09%
L=77.71m
i=10.44%
L=35.38m
i=5.09%
R=600.00m
L=44.59m
L=27.86m
i=-2.35%
L=89.23m
L=104.84m
L=25.92m
L=27.78m
L=20.81m
L=15.08m
0+700
0+800
0+900
1+000

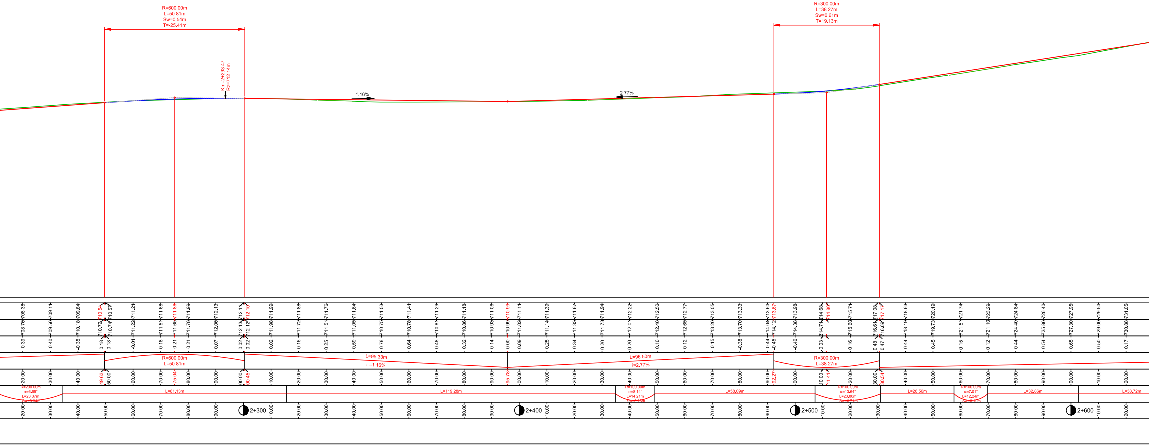

R=600.00m
L=53.04m
Sw=0.59m
T=-26.52m
Km=1+270.94
Rz=742.30m
0.18%
3.27%
5.57%
737.95 737.97 737.99 738.01 738.03 738.04 738.06 738.08 738.10 738.11 738.13 738.15 738.16 738.34 738.66 738.99 739.32 739.64 739.97 740.30 740.62 740.95 741.28 741.61 741.93 741.98 742.20 742.30 742.26 742.23 741.99 741.59 741.37 741.05 740.50 739.94 739.38 738.82 738.27 737.71 737.15 736.60 736.04 735.48 734.93 734.37
737.89 738.00 738.15 738.27 738.56 738.82 738.66 738.54 738.53 738.43 739.18 739.35 739.63 737.95 738.54 739.09 739.52 739.95 740.33 740.67 741.02 741.35 741.67 741.95 741.97 742.13 742.26 742.14 742.10 741.93 741.76 741.63 741.37 740.93 740.43 739.80 739.17 738.22 737.16 736.66 735.55 734.95 734.64 734.36 734.07
0.07 -0.03 -0.16 -0.26 -0.54 -0.77 -0.60 -0.46 -0.44 -0.32 -1.05 -1.09 -0.99 0.71 0.45 0.23 0.12 0.02 -0.03 -0.05 -0.07 -0.07 -0.07 -0.01 0.00 0.07 0.04 0.12 0.13 0.06 -0.17 -0.26 -0.32 -0.43 -0.49 -0.42 -0.35 0.04 0.55 -0.52 -1.07 -1.12 0.85 0.56 0.30
L=130.79m
i=0.18%
L=116.78m
i=3.27%
R=600.00m
L=53.04m
L=136.84m
i=-5.57%
20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00 30.00 34.53 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00 30.00 40.00 50.00 51.31 60.00 70.00 77.83 80.00 90.00 00.00 04.35 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00 30.00
L=39.29m
L=23.47m
R=150.00m
α=6.63°
L=17.35m
L=17.44m
α=36.85°
L=38.59m
Sw=3.08m
L=21.14m
L=101.95m
L=33.17m
L=50.40m
L=16.79m
R=80.00m
α=22.65°
L=31.63m
L=41.59m
1+100
1+200
1+300
1+400

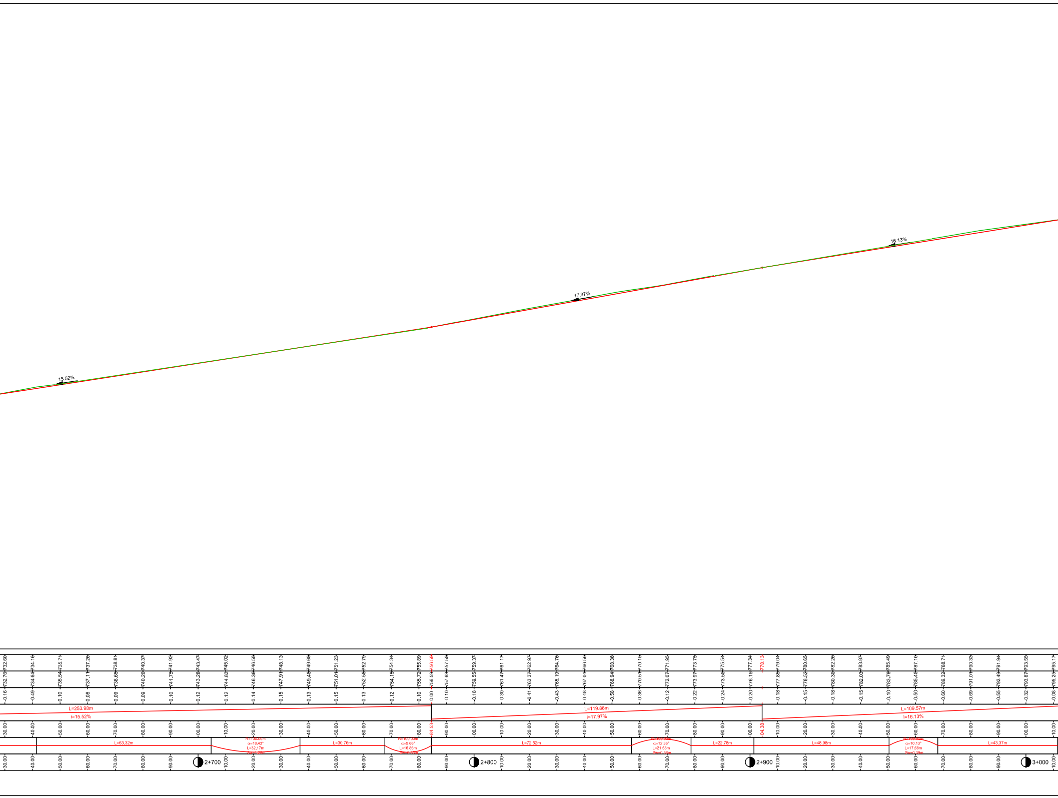


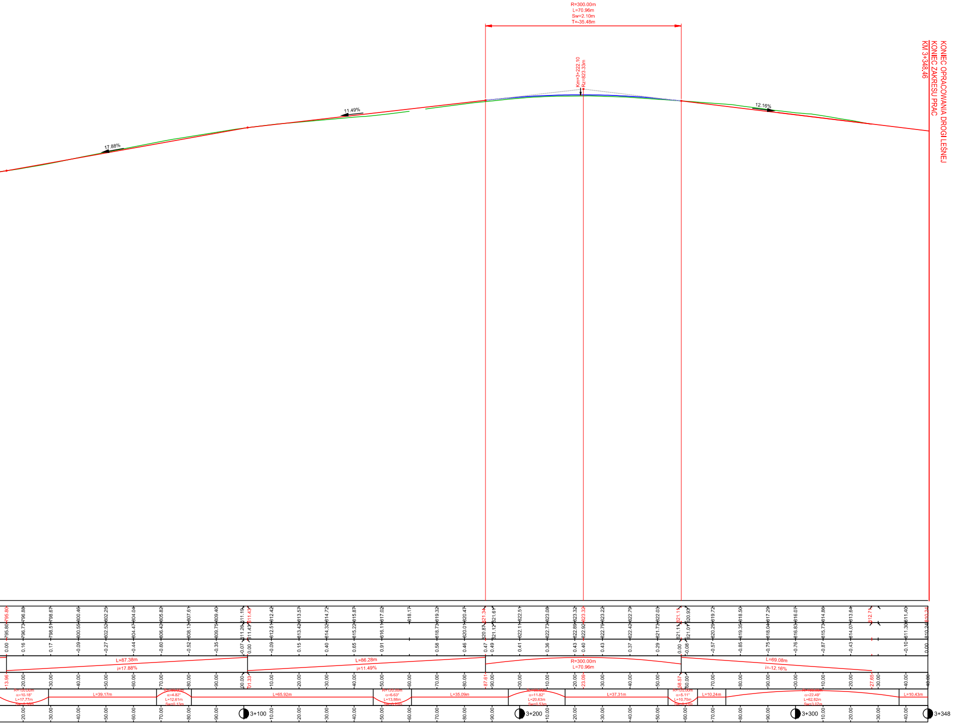
4.39%
10.41%
7.09%
Poziom odniesienia
733.81 733.75 733.36 732.92 732.48 732.04 731.60 731.52 730.67 729.63 728.59 727.55 726.51 725.47 724.43 724.08 723.61 722.90 722.19 721.48 720.77 720.06 719.35 718.65 717.94 717.23 716.52 715.81 715.10 715.08 714.53 713.95 713.38 712.81 712.24 711.67 711.10 710.53 709.95
733.78 733.75 733.02 732.73 732.11 731.89 731.59 731.52 730.71 729.72 728.51 727.19 725.87 725.03 724.32 724.08 723.53 722.70 721.88 721.05 720.23 720.20 719.58 718.78 718.05 717.34 716.51 715.80 715.09 715.08 714.65 714.14 713.65 713.11 712.59 712.09 711.58 711.08 710.57
0.03 0.00 -0.10 -0.36 -0.49 -1.02 0.01 0.00 -0.04 -0.08 0.07 0.35 0.63 0.43 0.11 0.00 0.08 0.19 0.31 0.43 0.54 -0.18 -0.05 -0.10 -0.09 -0.15 -0.13 -0.09 0.01 0.00 -0.12 0.05 0.08 0.05 0.05 0.07 0.07 0.09 0.10
L=50.67m
i=-4.39%
L=71.45m
i=-10.41%
L=127.01m
i=-7.09%
40.00 41.18 50.00 60.00 70.00 80.00 90.00 91.85 00.00 10.00 20.00 30.00 40.00 50.00 60.00 63.30 70.00 80.00 90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 90.31 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00
L=49.22m
L=50.23m
L=70.69m
L=67.43m
L=50.67m
L=52.48m
40.00 50.00 60.00 70.00 80.00 90.00
1+500
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
1+600
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
1+700
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00



R=600.00m
L=82.29m
Sw=1.41m
T=41.14m
5.71%
2.48%
6.41%
7.31%
Km=2+051.79
Rz=697.69m
709.38 708.81 708.24 707.67 707.10 706.53 705.96 705.38 704.81 704.24 703.67 703.10 702.63 702.58 702.34 702.09 701.84 701.59 701.35 701.10 700.85 700.72 700.42 699.78 699.13 698.92 698.53 698.08 697.80 697.69 697.69 697.74 697.96 698.35 698.90 699.29 699.61 700.34 701.07 701.80 702.53 703.26 703.99 704.72 705.45 706.18 706.92 707.65
709.93 709.52 709.11 708.69 708.22 707.57 706.81 706.03 705.19 705.02 704.28 703.14 702.63 702.53 702.13 702.03 701.85 701.66 701.45 701.19 700.91 700.72 700.51 699.99 699.33 699.09 698.61 697.84 697.40 697.07 697.18 697.25 697.32 697.72 698.62 699.18 699.58 700.50 701.40 702.29 703.55 704.64 705.41 706.02 706.53 707.04 707.55 708.10
-0.55 -0.71 -0.87 -1.02 -1.12 -1.04 -0.85 -0.64 -0.38 0.29 0.52 -0.05 0.00 0.05 0.20 0.06 -0.01 -0.07 -0.11 -0.09 -0.06 0.00 -0.10 -0.22 -0.20 -0.17 -0.08 0.24 0.41 0.62 0.51 0.49 -0.48 -0.52 0.28 0.11 0.03 -0.16 -0.33 -0.49 -1.02 -1.37 -1.42 -1.30 -1.08 -0.86 -0.64 -0.45
L=217.95m
i=-5.71%
L=76.99m
i=-2.48%
L=28.11m
i=-6.41%
R=600.00m
L=82.29m
L=154.00m
i=7.31%
90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 08.26 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 85.24 90.00 00.00 10.00 13.35 20.00 30.00 40.00 50.00 54.49 60.00 70.00 80.00 90.00 95.63 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00
L=91.88m
R=100.00m
α=11.67°
L=20.37m
Sw=0.52m
L=61.61m
L=18.75m
R=200.00m
α=8.52°
L=29.73m
Sw=0.55m
L=17.25m
R=150.00m
α=7.08°
L=18.53m
Sw=0.29m
L=21.93m
R=20.00m
α=59.34°
L=20.71m
Sw=2.62m
L=33.51m
R=60.00m
α=20.22°
L=21.18m
Sw=0.93m
L=72.37m
90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 10.00
1+800
1+900
2+000
2+100
2+200


R=600.00m
L=50.81m
Sw=0.54m
T=25.41m
Km=2+293.47
Rz=712.14m
1.16%
2.77%
R=300.00m
L=38.27m
Sw=0.61m
T=19.13m
708.38 709.11 709.84 710.54 710.57 711.21 711.68 711.86 711.99 712.13 712.11 712.10 711.99 711.88 711.76 711.64 711.53 711.41 711.29 711.18 711.06 710.99 711.11 711.39 711.67 711.94 712.22 712.50 712.77 713.05 713.33 713.60 713.67 713.98 714.65 714.80 715.71 717.08 717.17 718.63 720.19 721.74 723.29 724.84 726.40 727.95 729.50 731.05
708.76 709.50 710.18 710.72 710.74 711.22 711.51 711.65 711.78 712.06 712.13 712.12 711.98 711.72 711.51 711.05 710.75 710.78 710.81 710.86 710.93 710.99 711.02 711.14 711.33 711.73 712.01 712.40 712.65 713.20 713.70 714.04 714.12 714.38 714.71 715.60 716.61 716.69 718.19 719.73 721.51 721.10 724.40 725.86 727.30 729.00 730.88
-0.39 -0.40 -0.35 -0.18 -0.18 -0.01 0.18 0.21 0.21 0.07 -0.02 -0.02 0.02 0.16 0.25 0.59 0.78 0.64 0.48 0.32 0.14 0.00 0.09 0.25 0.34 0.20 0.20 0.10 0.12 -0.15 -0.38 -0.44 -0.45 -0.40 -0.03 0.16 0.48 0.47 0.44 0.45 0.15 0.12 0.44 0.54 0.65 0.50 0.17
R=600.00m
L=50.81m
L=95.33m
i=-1.16%
L=96.50m
i=2.77%
R=300.00m
L=38.27m
20.00 30.00 40.00 49.63 50.00 60.00 70.00 75.04 80.00 90.00 00.00 00.45 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 95.78 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 92.27 00.00 10.00 11.41 20.00 30.00 30.54 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00
R=200.00m
α=6.69°
L=23.37m
L=81.13m
L=119.28m
R=100.00m
α=8.14°
L=14.21m
L=58.09m
R=100.00m
α=13.64°
L=23.80m
L=26.56m
R=100.00m
α=7.01°
L=12.24m
L=32.86m
L=38.72m
20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+300
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+400
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+500
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+600
10.00 20.00


15.52%
17.97%
16.13%
732.60 734.16 735.71 737.26 738.81 740.37 741.92 743.47 745.02 746.58 748.13 749.68 751.23 752.79 754.34 755.89 756.59 757.58 759.37 761.17 762.97 764.76 766.56 768.36 770.15 771.95 773.75 775.54 777.34 778.13 779.04 780.65 782.26 783.87 785.49 787.10 788.71 790.33 791.94 793.55 795.17
732.76 734.64 735.54 737.11 738.65 740.20 741.75 743.28 744.83 746.36 747.91 749.48 751.01 752.58 754.15 755.72 756.59 757.68 759.55 761.47 763.37 765.19 767.04 768.94 770.51 772.07 773.97 773.50 776.15 777.85 778.52 780.30 782.03 783.79 785.40 789.32 791.01 792.49 793.87 795.25
-0.16 -0.49 0.10 0.08 0.09 0.09 0.10 0.12 0.12 0.14 0.15 0.13 0.15 0.13 0.12 0.10 0.00 -0.10 -0.18 -0.30 -0.41 -0.43 -0.48 -0.58 -0.36 -0.12 -0.22 -0.24 -0.20 -0.18 -0.15 -0.18 -0.15 -0.10 -0.50 -0.60 -0.69 -0.55 -0.32 -0.08
L=253.98m
i=15.52%
L=119.86m
i=17.97%
L=109.57m
i=16.13%
30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 84.53 90.00 00.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 04.38 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 00.00 10.00
L=63.32m
R=100.00m
α=18.43°
L=32.17m
Sw=1.29m
L=30.76m
R=100.00m
α=9.66°
L=16.86m
Sw=0.35m
L=72.52m
R=100.00m
α=12.36°
L=21.58m
Sw=0.58m
L=22.78m
L=48.98m
R=100.00m
α=10.13°
L=17.68m
Sw=0.39m
L=43.37m
30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+700
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+800
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
2+900
10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00
3+000
10.00


R=300.00m
L=70.96m
Sw=2.10m
T=35.48m
Km=3+222.10
Rz=823.33m
KONIEC OPRACOWANIA DROGI LEŚNEJ
KONIEC ZAKRESU PRAC
KM 3+348,46
17.88%
11.49%
12.16%
L=87.38m
i=17.88%
L=86.28m
i=11.49%
R=300.00m
L=70.96m
L=69.08m
i=-12.16%
L=39,17m
L=65,92m
L=35,09m
L=37,31m
L=10,24m
L=10,43m
3+100
3+200
3+300
3+348

LEGENDA:

- Teren istniejący w osi drogi leśnej
- Projektowana niweleta w osi drogi leśnej
- Projektowana niweleta w osi drogi leśnej - łuk wklęsły lub wypukły
🟥 - Wykop
🟦 - Nasyp

temat: PRZEBUDOWA DROGI LEŚNEJ NR 0608, W ODDZIALE NR 122, 121, 120, 119, 118, LEŚNICTWA SALMOPOL W KM OD 0+004,00 DO KM 3+348,46.	inwestor: Państwowe Gospodarstwo Leśne Lasy Państwowe, Nadleśnictwo Bielsko 43-382 Bielsko Biała, ul. Kopytko 13
treść: PROFIL PODŁUŻNY DROGI LEŚNEJ	jednostka projektowa: USŁUGI PROJEKTOWE "PRO-ZAT" mgr inż.Andrzej Zaniat ul. Ogrodowa 35 43-360 Bystra

	podpis:	stadium:	skala:	nr rys.
projektował:		projekt wykonawczy	1:100/1:1000	3.
mgr inż. Tomasz Szafrański	T.Szafrański			