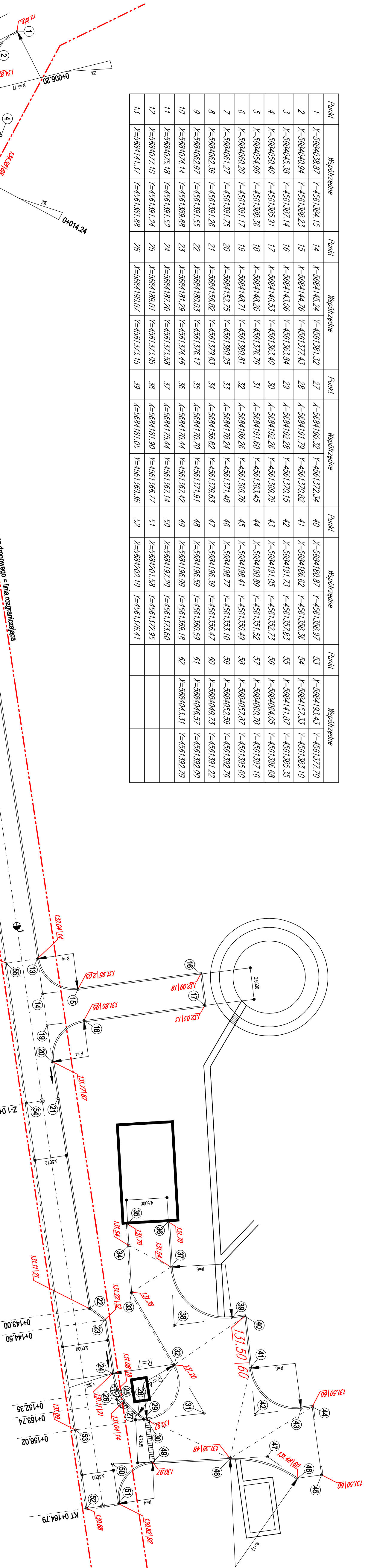


| Punkt | Współrzędne | Punkt | Współrzędne | Punkt | Współrzędne | Punkt | Współrzędne | Punkt | Współrzędne |
|-------|------------------------------|-------|------------------------------|-------|------------------------------|-------|------------------------------|-------|------------------------------|
| 1 | X=5684038.87 Y=4561384.15 | 14 | X=5684145.24 Y=4561381.32 | 27 | X=5684190.32 Y=4561372.34 | 40 | X=5684180.87 Y=4561358.97 | 53 | X=5684193.43 Y=4561377.70 |
| 2 | X=5684040.94 Y=4561388.23 | 15 | X=5684144.76 Y=4561377.43 | 28 | X=5684191.79 Y=4561370.82 | 41 | X=5684186.62 Y=4561358.36 | 54 | X=5684157.33 Y=4561383.10 |
| 3 | X=5684045.38 Y=4561387.14 | 16 | X=5684143.06 Y=4561363.84 | 29 | X=5684192.28 Y=4561370.15 | 42 | X=5684191.73 Y=4561357.83 | 55 | X=5684141.87 Y=4561385.35 |
| 4 | X=5684050.40 Y=4561385.91 | 17 | X=5684146.53 Y=4561363.40 | 30 | X=5684192.26 Y=4561369.79 | 43 | X=5684191.05 Y=4561352.73 | 56 | X=5684064.05 Y=4561396.88 |
| 5 | X=5684054.96 Y=4561388.36 | 18 | X=5684148.20 Y=4561376.76 | 31 | X=5684191.60 Y=4561363.45 | 44 | X=5684190.89 Y=4561351.52 | 57 | X=5684060.78 Y=4561397.16 |
| 6 | X=5684060.20 Y=4561391.17 | 19 | X=5684148.71 Y=4561380.81 | 32 | X=5684186.26 Y=4561366.76 | 45 | X=5684198.41 Y=4561350.49 | 58 | X=5684057.87 Y=4561395.60 |
| 7 | X=5684061.27 Y=4561391.75 | 20 | X=5684152.75 Y=4561380.25 | 33 | X=5684178.24 Y=4561371.48 | 46 | X=5684198.77 Y=4561353.10 | 59 | X=5684052.59 Y=4561392.76 |
| 8 | X=5684062.39 Y=4561391.26 | 21 | X=5684156.82 Y=4561379.63 | 34 | X=5684156.82 Y=4561379.63 | 47 | X=5684196.39 Y=4561356.47 | 60 | X=5684049.73 Y=4561391.22 |
| 9 | X=5684062.97 Y=4561391.55 | 22 | X=5684180.03 Y=4561376.17 | 35 | X=5684170.70 Y=4561371.91 | 48 | X=5684196.59 Y=4561360.59 | 61 | X=5684046.57 Y=4561392.00 |
| 10 | X=5684074.14 Y=4561389.88 | 23 | X=5684181.29 Y=4561374.46 | 36 | X=5684170.44 Y=4561367.42 | 49 | X=5684196.99 Y=4561369.18 | 62 | X=5684043.31 Y=4561392.79 |
| 11 | X=5684075.18 Y=4561391.52 | 24 | X=5684187.20 Y=4561373.58 | 37 | X=5684175.44 Y=4561367.14 | 50 | X=5684197.20 Y=4561372.95 | | |
| 12 | X=5684077.10 Y=4561391.24 | 25 | X=5684189.01 Y=4561373.05 | 38 | X=5684181.90 Y=4561366.77 | 51 | X=5684201.58 Y=4561372.95 | | |
| 13 | X=5684141.37 Y=4561381.88 | 26 | X=5684190.07 Y=4561373.15 | 39 | X=5684181.05 Y=4561360.36 | 52 | X=5684202.10 Y=4561376.41 | | |



Elementy łuków kołowych

| Luk | Kąt zwrotu (grad) | R (m) | T (m) | Lk (m) | B (m) |
|-------|-------------------|-------|-------|--------|-------|
| 1-3 | 85.3606 | 5.77 | 4.57 | 7.73 | 1.59 |
| 3-5 | 46.6794 | 13.47 | 5.17 | 9.88 | 0.96 |
| 6-8 | 57.7315 | 2.50 | 1.22 | 2.27 | 0.28 |
| 10-12 | 73.1958 | 3.00 | 1.94 | 3.45 | 0.57 |
| 13-15 | 98.7028 | 4.00 | 3.92 | 6.20 | 1.60 |
| 18-20 | 101.2972 | 4.00 | 4.08 | 6.36 | 1.72 |
| 24-28 | 50.0000 | 7.00 | 2.90 | 5.50 | 0.58 |
| 24-28 | 18.9684 | 17.00 | 2.55 | 5.07 | 0.19 |
| 30-32 | 127.2584 | 4.00 | 6.29 | 8.00 | 3.52 |
| 37-39 | 104.7224 | 6.00 | 6.46 | 9.87 | 2.82 |
| 41-43 | 101.7521 | 5.00 | 5.14 | 8.00 | 2.17 |
| 46-48 | 42.1539 | 12.00 | 4.13 | 7.95 | 0.69 |
| 49-51 | 106.4294 | 4.00 | 4.43 | 6.69 | 1.97 |

| | | | |
|--|------------------|--------|----------|
| Zakład Projektowania i Realizacji Inwestycji | | | |
| KOMAS.C. | | | |
| 91-420 Łódź, ul. Północna 27/29, pok. 111, tel/fax (42)630 04 84 | | | |
| Objekt: | Treść rys. : | | Podział |
| Rozebudowa i przebudowa stacji uzdatniania wody w m. Kosmin | Dane do życzenia | | PBW |
| Projektant: | Upł. bud | Podpis | Data |
| Inż. Ryszard Szmitgiero | GP II-8346-68/77 | | 04.2011 |
| | | Skala: | Nr. rys. |
| | | 1:250 | 2/9 |