**1. Общая часть**

Исходные документы для проектирования:

1. Распоряжение
2. «Техническое задание на подготовку документации по планировке территории»

Схема использования территории выполнена в масштабе 1:2000.

Система координат – МСК-43-40.

Климатический подрайон для строительства – IВ.

ХАРАКТЕРИСТИКА ПЛОЩАДКИ СТРОИТЕЛЬСТВА

Линейный объект расположен в пяти кадастровых кварталах, в административном отношении площадка проектрирования объекта расположена в н.п. Мари-Малмыж Малмыжского района Кировской области.

Климат района работ умеренно-континентальный, и согласно СНиП 23-01-99, характерезуется следующими основными показателями:

средняя годовая температура воздуха: +2.4 С;

абсолютный минимум: - 48 С;

абсолютный максимум: +38 С;

количество осадков за год: 616 мм.

Продолжительность неблагоприятного периода – с 20 октября по 5 мая. Нормативная сезонного промерзания по СНиП 23.01-99 составляет: для суглинков и глин – 1.65м.

В геоморфологическом отношении площадка изысканий расположена на правобережном склоне долины р. Вятка. Рельеф холмистый, абсолютные отметки изменюятся от 86.02 м до 129.68 м (по устьям выработок).

Условия проходимости – удовлетворительные. Проезд автотранспорта возможен.

Схема размещения проектируемой территории

Рис № 1



**ПРОЕКТНОЕ РЕШЕНИЕ.**

**2. Архитектурно-планировочная и объемно-пространственная**

**организация застройки.**

Запроектировано строительство системы хозяйственно-питьевого и противопожарного водоснабжения с забором воды из существующих скважин.

Красные линии линейного объекта формировались на основе СНиП 2.04.02-84 «Водоснабжение Наружные сети и сооружения».

Градостроительные регламенты в составе проекта планировки не устанавливались, т.к. в соответствии со ст.36 Градостроительного кодекса РФ действие градостроительных регламентов не распространяется на земельные участки, предназначенные для размещения линейных объектов.

Планируемая территория расположена в н.п. Мари-Малмыж Малмыжского района Кировской области, в границах кадастровых кварталов №43:17:400401, 43:17:400202, 43:17:400203, 43:17:400201, 43:17:381001.

Красные линии линейного объекта проходят по земельным участкам с кадастровыми номерами №43:17:400401:158, 43:17:400202:177, 43:17:400202:152, 43:17:400202:40, 43:17:400202:45, 43:17:400202:351, 43:17:400203:189, 43:17:400203:223, 43:17:400203:75, 43:17:381001:665, 43:17:381001:461, 43:17:400202:190, 43:17:400201:134, 43:17:400201:275, 43:17:400201:158, 43:17:400201:3, 43:17:400203:437, 43:17:400201:10, 43:17:400201:12, 43:17:400203:181, 43:17:400203:179, 43:17:400201:20, 43:17:400201:96, 43:17:400203:157, 43:17:400203:56, 43:17:400203:31, 43:17:400203:29, 43:17:400203:25, и имеют следующее координатное описание:

|  |  |  |
| --- | --- | --- |
| Каталог координат поворотных точек красной линии | | |
| н1 | 349 779.72 | 2269 579.45 |
| н2 | 349 776.71 | 2269 588.98 |
| н3 | 349 760.20 | 2269 583.77 |
| н4 | 349 739.13 | 2269 579.02 |
| н5 | 349 722.55 | 2269 578.29 |
| н6 | 349 699.57 | 2269 573.20 |
| н7 | 349 697.40 | 2269 570.67 |
| н9 | 349 673.81 | 2269 565.44 |
| н10 | 349 672.84 | 2269 569.86 |
| н11 | 349 663.07 | 2269 567.71 |
| н13 | 349 664.05 | 2269 563.28 |
| н14 | 349 655.40 | 2269 561.36 |
| н15 | 349 640.24 | 2269 561.36 |
| н16 | 349 638.88 | 2269 572.79 |
| н17 | 349 628.95 | 2269 571.61 |
| н18 | 349 630.17 | 2269 561.36 |
| н20 | 349 599.41 | 2269 561.36 |
| н21 | 349 599.70 | 2269 567.15 |
| н22 | 349 589.71 | 2269 567.66 |
| н23 | 349 589.42 | 2269 561.87 |
| н24 | 349 580.34 | 2269 562.32 |
| н25 | 349 580.57 | 2269 566.93 |
| н26 | 349 570.59 | 2269 567.43 |
| н27 | 349 570.35 | 2269 562.83 |
| н29 | 349 554.91 | 2269 563.61 |
| н30 | 349 555.14 | 2269 567.69 |
| н31 | 349 545.16 | 2269 568.24 |
| н32 | 349 545.13 | 2269 567.84 |
| н33 | 349 502.31 | 2269 569.69 |
| н34 | 349 491.81 | 2269 569.20 |
| н35 | 349 474.25 | 2269 570.79 |
| н36 | 349 474.52 | 2269 575.37 |
| н37 | 349 464.53 | 2269 575.95 |
| н38 | 349 464.29 | 2269 571.68 |
| н39 | 349 439.22 | 2269 573.94 |
| н40 | 349 439.84 | 2269 579.39 |
| н41 | 349 429.90 | 2269 580.51 |
| н42 | 349 429.26 | 2269 574.84 |
| н43 | 349 417.33 | 2269 575.92 |
| н44 | 349 417.20 | 2269 573.67 |
| н45 | 349 395.41 | 2269 573.08 |
| н46 | 349 365.03 | 2269 564.05 |
| н47 | 349 340.25 | 2269 564.24 |
| н49 | 349 337.45 | 2269 580.23 |
| н50 | 349 327.60 | 2269 578.50 |
| н51 | 349 330.45 | 2269 562.27 |
| н53 | 349 326.70 | 2269 561.52 |
| н54 | 349 297.99 | 2269 550.47 |
| н55 | 349 276.74 | 2269 536.95 |
| н56 | 349 273.35 | 2269 537.18 |
| н57 | 349 263.28 | 2269 528.38 |
| н58 | 349 245.28 | 2269 516.94 |
| н59 | 349 224.68 | 2269 497.90 |
| н60 | 349 220.20 | 2269 492.88 |
| н61 | 349 200.52 | 2269 511.30 |
| н62 | 349 200.70 | 2269 517.56 |
| н63 | 349 041.41 | 2269 574.40 |
| н64 | 349 021.27 | 2269 580.37 |
| н65 | 349 017.17 | 2269 580.69 |
| н66 | 348 965.34 | 2269 599.49 |
| н68 | 348 966.71 | 2269 602.92 |
| н69 | 348 957.44 | 2269 606.65 |
| н70 | 348 955.93 | 2269 602.90 |
| н71 | 348 907.74 | 2269 620.38 |
| н72 | 348 905.06 | 2269 626.13 |
| н73 | 348 896.00 | 2269 621.89 |
| н74 | 348 900.44 | 2269 612.39 |
| н75 | 349 015.04 | 2269 570.82 |
| н76 | 349 019.43 | 2269 570.48 |
| н77 | 349 038.31 | 2269 564.89 |
| н78 | 349 190.50 | 2269 510.58 |
| н79 | 349 190.47 | 2269 509.61 |
| н80 | 349 187.95 | 2269 507.08 |
| н81 | 349 211.76 | 2269 483.43 |
| н82 | 349 169.81 | 2269 430.76 |
| н83 | 349 162.10 | 2269 437.70 |
| н84 | 349 157.18 | 2269 435.95 |
| н85 | 349 159.79 | 2269 426.33 |
| н86 | 349 163.60 | 2269 422.90 |
| н87 | 349 150.06 | 2269 405.78 |
| н88 | 349 116.19 | 2269 352.59 |
| н89 | 349 102.12 | 2269 322.39 |
| н90 | 349 043.81 | 2269 219.05 |
| н91 | 349 011.86 | 2269 135.58 |
| н92 | 349 009.53 | 2269 133.00 |
| н93 | 349 008.09 | 2269 134.28 |
| н94 | 348 997.20 | 2269 139.44 |
| н95 | 348 992.92 | 2269 130.40 |
| н97 | 349 002.81 | 2269 125.60 |
| н98 | 348 986.77 | 2269 107.92 |
| н99 | 348 954.40 | 2269 083.70 |
| н100 | 348 954.02 | 2269 080.90 |
| н101 | 348 939.65 | 2269 069.35 |
| н102 | 348 935.99 | 2269 058.02 |
| н103 | 348 924.82 | 2269 061.19 |
| н104 | 348 921.98 | 2269 051.61 |
| н106 | 348 933.47 | 2269 048.20 |
| н107 | 348 923.96 | 2269 009.46 |
| н108 | 348 883.80 | 2269 006.93 |
| н109 | 348 875.77 | 2269 003.75 |
| н110 | 348 788.91 | 2269 031.17 |
| н111 | 348 758.91 | 2269 041.82 |
| н112 | 348 752.94 | 2269 042.72 |
| н113 | 348 744.78 | 2269 046.29 |
| н114 | 348 742.94 | 2269 048.94 |
| н115 | 348 718.74 | 2269 058.30 |
| н116 | 348 719.33 | 2269 059.86 |
| н117 | 348 710.00 | 2269 063.46 |
| н118 | 348 709.40 | 2269 061.91 |
| н119 | 348 678.01 | 2269 072.80 |
| н120 | 348 676.18 | 2269 075.70 |
| н121 | 348 649.99 | 2269 078.64 |
| н122 | 348 634.51 | 2269 078.56 |
| н123 | 348 630.77 | 2269 077.95 |
| н124 | 348 577.53 | 2269 080.34 |
| н125 | 348 497.89 | 2269 183.82 |
| н126 | 348 502.05 | 2269 289.60 |
| н128 | 348 510.68 | 2269 335.36 |
| н129 | 348 533.74 | 2269 353.55 |
| н130 | 348 550.03 | 2269 332.90 |
| н131 | 348 599.03 | 2269 371.55 |
| н132 | 348 560.30 | 2269 420.65 |
| н133 | 348 511.29 | 2269 382.00 |
| н134 | 348 527.55 | 2269 361.40 |
| н136 | 348 511.71 | 2269 348.91 |
| н137 | 348 451.92 | 2269 360.66 |
| н138 | 348 439.88 | 2269 299.41 |
| н139 | 348 490.13 | 2269 289.54 |
| н140 | 348 485.83 | 2269 179.98 |
| н141 | 348 573.96 | 2269 065.37 |
| н142 | 348 573.56 | 2269 056.04 |
| н144 | 348 583.55 | 2269 055.61 |
| н145 | 348 583.91 | 2269 064.08 |
| н146 | 348 604.52 | 2269 063.19 |
| н147 | 348 604.53 | 2269 057.56 |
| н148 | 348 614.53 | 2269 057.58 |
| н149 | 348 614.52 | 2269 062.76 |
| н150 | 348 617.62 | 2269 062.62 |
| н151 | 348 635.20 | 2269 066.50 |
| н152 | 348 656.30 | 2269 065.04 |
| н153 | 348 682.87 | 2269 057.57 |
| н154 | 348 687.77 | 2269 058.48 |
| н155 | 348 699.10 | 2269 054.10 |
| н156 | 348 710.66 | 2269 047.09 |
| н157 | 348 715.22 | 2269 047.30 |
| н158 | 348 749.86 | 2269 032.05 |
| н159 | 348 755.96 | 2269 031.15 |
| н160 | 348 785.75 | 2269 018.90 |
| н161 | 348 843.40 | 2268 999.15 |
| н162 | 348 847.98 | 2269 000.99 |
| н163 | 348 875.19 | 2268 992.40 |
| н164 | 348 931.29 | 2268 983.41 |
| н165 | 348 929.73 | 2268 963.47 |
| н166 | 348 944.95 | 2268 891.28 |
| н167 | 348 947.79 | 2268 887.88 |
| н168 | 348 900.87 | 2268 850.82 |
| н169 | 348 848.47 | 2268 810.91 |
| н170 | 348 782.22 | 2268 762.19 |
| н171 | 348 788.14 | 2268 754.14 |
| н173 | 348 789.80 | 2268 755.36 |
| н174 | 348 792.84 | 2268 750.83 |
| н175 | 348 801.14 | 2268 756.40 |
| н177 | 348 797.86 | 2268 761.29 |
| н178 | 348 804.55 | 2268 766.20 |
| н179 | 348 808.15 | 2268 760.95 |
| н180 | 348 816.40 | 2268 766.61 |
| н181 | 348 812.61 | 2268 772.13 |
| н183 | 348 827.85 | 2268 783.33 |
| н184 | 348 831.68 | 2268 778.47 |
| н185 | 348 839.54 | 2268 784.66 |
| н187 | 348 835.91 | 2268 789.26 |
| н188 | 348 854.40 | 2268 802.85 |
| н189 | 348 858.10 | 2268 798.00 |
| н190 | 348 866.12 | 2268 803.97 |
| н191 | 348 862.43 | 2268 808.93 |
| н192 | 348 883.32 | 2268 824.86 |
| н193 | 348 889.05 | 2268 816.78 |
| н194 | 348 897.21 | 2268 822.56 |
| н195 | 348 891.28 | 2268 830.93 |
| н196 | 348 907.00 | 2268 842.93 |
| н197 | 348 944.74 | 2268 872.72 |
| н199 | 348 949.29 | 2268 866.68 |
| н200 | 348 957.13 | 2268 872.88 |
| н201 | 348 952.59 | 2268 878.92 |
| н203 | 348 954.21 | 2268 880.21 |
| н204 | 348 957.38 | 2268 876.42 |
| н205 | 349 013.89 | 2268 921.19 |
| н206 | 349 060.76 | 2268 960.88 |
| н207 | 349 101.59 | 2268 995.94 |
| н208 | 349 105.29 | 2268 996.08 |
| н209 | 349 123.08 | 2269 011.19 |
| н210 | 349 124.99 | 2269 016.04 |
| н211 | 349 137.93 | 2269 026.77 |
| н212 | 349 166.61 | 2269 054.97 |
| н213 | 349 159.60 | 2269 062.10 |
| н214 | 349 131.22 | 2269 034.20 |
| н215 | 349 116.63 | 2269 022.10 |
| н216 | 349 114.69 | 2269 017.19 |
| н217 | 349 101.46 | 2269 005.95 |
| н218 | 349 097.72 | 2269 005.81 |
| н219 | 349 054.27 | 2268 968.49 |
| н220 | 349 007.55 | 2268 928.93 |
| н221 | 348 960.29 | 2268 891.49 |
| н222 | 348 955.98 | 2268 896.64 |
| н223 | 348 941.73 | 2268 964.25 |
| н224 | 348 943.52 | 2268 987.25 |
| н225 | 348 943.87 | 2269 017.78 |
| н226 | 348 948.97 | 2269 048.59 |
| н227 | 348 954.77 | 2269 066.54 |
| н229 | 348 992.15 | 2269 092.81 |
| н230 | 348 994.82 | 2269 089.02 |
| н231 | 349 003.00 | 2269 094.77 |
| н233 | 349 000.34 | 2269 098.56 |
| н234 | 349 005.96 | 2269 102.51 |
| н235 | 349 007.55 | 2269 108.21 |
| н236 | 349 024.32 | 2269 126.20 |
| н238 | 349 027.52 | 2269 123.32 |
| н239 | 349 034.22 | 2269 130.75 |
| н240 | 349 031.15 | 2269 133.51 |
| н241 | 349 045.79 | 2269 149.22 |
| н242 | 349 056.77 | 2269 182.97 |
| н243 | 349 059.93 | 2269 218.08 |
| н244 | 349 075.05 | 2269 243.00 |
| н246 | 349 084.96 | 2269 241.22 |
| н247 | 349 086.74 | 2269 251.06 |
| н248 | 349 080.61 | 2269 252.16 |
| н250 | 349 110.53 | 2269 298.65 |
| н251 | 349 124.38 | 2269 324.82 |
| н252 | 349 128.17 | 2269 327.59 |
| н253 | 349 136.80 | 2269 343.17 |
| н255 | 349 149.80 | 2269 334.90 |
| н256 | 349 155.17 | 2269 343.33 |
| н257 | 349 141.66 | 2269 351.94 |
| н259 | 349 171.61 | 2269 405.12 |
| н260 | 349 177.52 | 2269 412.78 |
| н261 | 349 194.79 | 2269 435.03 |
| н262 | 349 220.78 | 2269 470.78 |
| н263 | 349 233.03 | 2269 484.50 |
| н264 | 349 243.00 | 2269 493.99 |
| н265 | 349 262.89 | 2269 510.92 |
| н266 | 349 269.92 | 2269 516.90 |
| н267 | 349 306.36 | 2269 538.59 |
| н268 | 349 338.75 | 2269 549.06 |
| н269 | 349 369.50 | 2269 548.82 |
| н270 | 349 392.81 | 2269 553.81 |
| н271 | 349 409.93 | 2269 553.09 |
| н272 | 349 430.62 | 2269 557.81 |
| н273 | 349 484.64 | 2269 553.51 |
| н274 | 349 523.51 | 2269 555.19 |
| н275 | 349 599.31 | 2269 551.35 |
| н276 | 349 656.50 | 2269 551.36 |
| н277 | 349 702.83 | 2269 561.63 |
| н278 | 349 704.99 | 2269 564.16 |
| н279 | 349 723.86 | 2269 568.34 |
| н280 | 349 740.46 | 2269 569.07 |
| н281 | 349 762.81 | 2269 574.11 |

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| --- | --- | --- |
| н282 | 350 818.86 | 2269 729.23 |
| н283 | 350 818.66 | 2269 732.17 |
| н284 | 350 796.63 | 2269 771.20 |
| н285 | 350 776.39 | 2269 807.06 |
| н286 | 350 770.23 | 2269 817.34 |
| н287 | 350 704.03 | 2269 927.91 |
| н288 | 350 700.56 | 2269 933.72 |
| н289 | 350 698.35 | 2269 938.52 |
| н290 | 350 695.76 | 2269 943.15 |
| н291 | 350 692.28 | 2269 947.16 |
| н292 | 350 693.28 | 2269 947.76 |
| н293 | 350 641.48 | 2270 033.57 |
| н294 | 350 623.35 | 2270 060.64 |
| н295 | 350 600.02 | 2270 100.88 |
| н296 | 350 507.27 | 2270 249.97 |
| н297 | 350 507.55 | 2270 251.10 |
| н298 | 350 484.70 | 2270 287.20 |
| н299 | 350 481.77 | 2270 287.30 |
| н300 | 350 426.01 | 2270 376.84 |
| н301 | 350 412.20 | 2270 399.01 |
| н302 | 350 372.99 | 2270 454.69 |
| н303 | 350 375.54 | 2270 456.61 |
| н304 | 350 369.53 | 2270 464.60 |
| н305 | 350 359.23 | 2270 456.86 |
| н306 | 350 403.86 | 2270 393.49 |
| н307 | 350 417.52 | 2270 371.56 |
| н308 | 350 476.11 | 2270 277.48 |
| н309 | 350 479.08 | 2270 277.38 |
| н310 | 350 496.82 | 2270 249.34 |
| н311 | 350 495.93 | 2270 245.66 |
| н312 | 350 498.07 | 2270 242.21 |
| н313 | 350 576.11 | 2270 116.83 |
| н314 | 350 589.82 | 2270 094.82 |
| н315 | 350 598.19 | 2270 079.56 |
| н316 | 350 611.48 | 2270 058.20 |
| н317 | 350 607.53 | 2270 055.66 |
| н318 | 350 593.33 | 2270 046.52 |
| н319 | 350 542.79 | 2270 017.87 |
| н320 | 350 474.76 | 2269 981.87 |
| н321 | 350 471.00 | 2269 979.89 |
| н322 | 350 470.93 | 2269 976.71 |
| н323 | 350 448.43 | 2269 963.18 |
| н324 | 350 425.63 | 2269 948.73 |
| н325 | 350 423.23 | 2269 949.82 |
| н326 | 350 422.03 | 2269 961.97 |
| н327 | 350 376.09 | 2270 033.93 |
| н328 | 350 373.68 | 2270 032.40 |
| н329 | 350 373.40 | 2270 033.26 |
| н330 | 350 350.72 | 2270 075.77 |
| н331 | 350 359.40 | 2270 080.39 |
| н332 | 350 354.70 | 2270 089.22 |
| н333 | 350 346.01 | 2270 084.59 |
| н334 | 350 313.33 | 2270 145.83 |
| н335 | 350 294.31 | 2270 181.47 |
| н336 | 350 293.51 | 2270 192.47 |
| н337 | 350 302.73 | 2270 193.08 |
| н338 | 350 302.07 | 2270 203.06 |
| н339 | 350 293.60 | 2270 202.50 |
| н340 | 350 297.10 | 2270 209.60 |
| н341 | 350 296.02 | 2270 207.42 |
| н342 | 350 297.10 | 2270 209.60 |
| н343 | 350 296.66 | 2270 217.89 |
| н344 | 350 286.67 | 2270 217.36 |
| н345 | 350 286.97 | 2270 211.68 |
| н346 | 350 282.71 | 2270 203.02 |
| н347 | 350 284.49 | 2270 178.63 |
| н348 | 350 304.51 | 2270 141.13 |
| н349 | 350 364.15 | 2270 029.36 |
| н350 | 350 365.69 | 2270 024.54 |
| н351 | 350 367.12 | 2270 022.30 |
| н352 | 350 410.93 | 2269 953.29 |
| н354 | 350 411.46 | 2269 947.90 |
| н355 | 350 373.54 | 2269 935.12 |
| н356 | 350 339.51 | 2269 921.56 |
| н357 | 350 330.49 | 2269 917.97 |
| н358 | 350 298.94 | 2269 898.70 |
| н359 | 350 298.86 | 2269 896.20 |
| н360 | 350 295.53 | 2269 894.15 |
| н361 | 350 292.56 | 2269 894.95 |
| н362 | 350 275.89 | 2269 882.28 |
| н364 | 350 265.56 | 2269 894.11 |
| н365 | 350 263.13 | 2269 893.92 |
| н366 | 350 247.44 | 2269 914.05 |
| н367 | 350 229.22 | 2269 946.55 |
| н368 | 350 226.80 | 2269 954.90 |
| н369 | 350 219.22 | 2269 966.99 |
| н370 | 350 220.56 | 2269 971.50 |
| н371 | 350 209.10 | 2269 990.48 |
| н372 | 350 202.70 | 2270 001.08 |
| н373 | 350 199.02 | 2270 027.26 |
| н375 | 350 197.04 | 2270 049.44 |
| н376 | 350 197.73 | 2270 051.53 |
| н377 | 350 200.52 | 2270 054.42 |
| н378 | 350 193.32 | 2270 061.36 |
| н379 | 350 188.96 | 2270 056.84 |
| н380 | 350 186.90 | 2270 050.63 |
| н381 | 350 187.56 | 2270 043.12 |
| н382 | 350 189.08 | 2270 026.12 |
| н383 | 350 193.08 | 2269 997.66 |
| н384 | 350 197.42 | 2269 990.48 |
| н386 | 350 193.01 | 2269 989.51 |
| н387 | 350 184.45 | 2269 988.39 |
| н389 | 350 173.19 | 2270 003.51 |
| н390 | 350 170.47 | 2270 007.18 |
| н391 | 350 163.86 | 2270 009.84 |
| н392 | 350 134.54 | 2270 054.06 |
| н393 | 350 127.31 | 2270 066.86 |
| н394 | 350 112.54 | 2270 104.31 |
| н395 | 350 107.40 | 2270 113.77 |
| н396 | 350 097.25 | 2270 126.21 |
| н397 | 350 084.95 | 2270 138.46 |
| н398 | 350 059.40 | 2270 157.03 |
| н399 | 350 050.01 | 2270 163.68 |
| н400 | 350 021.79 | 2270 176.39 |
| н401 | 350 030.55 | 2270 195.77 |
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