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Issue
External drainage around plots 466 to 470 are lower than the top water level for S1020.
External drainage around plots 587 to 590 and 595 to 596 are lower than the top water level for S8136. This includes the FFLs of plots 595 and 596 which are 723mm below the top water level of the modelled drainage system.
External drainage around plots 678 to 685 are lower than the top water level for S8158.
Private gully with cover level of approx. 97.025mAOD is lower than the receiving modelled manhole top water level – S4004 (97.329mAOD).
Private channel drainage serving Plot 460 is lower (96.600mAOD) than the receiving modelling manhole top water level – S8166 (96.760mAOD) External levels for plots 460 to 463 are also lower than this value.
Top water level for manhole S4012 (97.312mAOD) is higher than the FFLs for plots 488 to 490 (97.300mAOD) and all external levels for which the manhole drains.
Top water level for manhole S8151 (98.013mAOD) is higher than the FFLs for plots 577 to 580 and 597 to 599 (98.000mAOD) and all external levels for which the manhole drains. Plots 572 to 576 are also impacted due to low external levels only.
Top water level for manhole S8150 (96.904mAOD) is higher than the FFL for plot 567 (96.900mAOD) and all external levels for which the manhole drains. Plot 568 is also impacted due to low external levels only.
Top water level for manhole S8149 (96.550mAOD) is higher than the FFL for plot 558 to 560 (96.300mAOD and 96.500mAOD) and all external levels for which the manhole drains. Plots 539 and 556 are also impacted due to low external levels only.
Top water level for manhole S8164 (97.185mAOD) is higher than the FFL for plots 553 to 555 (97.150mAOD) and all external levels for which the manhole drains. Plot 552 is also impacted due to low external levels only.
Plot 551 external levels are lower than the top water level in manhole S8165 with which it is connected.
Plots 543 to 546 external levels are lower than the top water level in manhole S8155 with which they connect.
Top water level for manhole S8135 (98.246mAOD) is higher than the FFLs for plots 591 to 595 (97.700mAOD and 97.800mAOD) and all external levels for which the manhole drains. Plot 581 is also impacted due to low external levels only.
Gully in parking area of plot 520 is a lower level (97.000mAOD) the top water level of receiving manhole S8159 (97.110mAOD).
Gully in parking area of plot 536 is a lower level (97.150mAOD) the top water level of receiving manhole S8165 (97.188mAOD).

Comments
Water surcharging from private drainage manholes for 466-470 have good falls northwards towards a 1.4m deep ditch as per the attached flood routing plan.
With the overflow swale on S8135, the TWL is now 97.515, meaning no drainage floods. This is also below the FFLs of 596 and 595.
overflow swale to be installed in the POS off S8129 to reduce TWL in S8158 to 96.92
97.25 is the lowest private gully level going into S4004. The upstream overflow swale from S8129 has reduced the TWL in S4004 to 96.808
upstream overflow swale from S8129 has reduced the TWL in S8166 to 96.331 which is lower than all drainage cover levels for that run, including the ACO level of 96.60.
Upsizing length 1.012 from a 525 to a 600mm dia pipe reduces the TWL in S4012 to 97.291. Levels raised for 488-490 to allow for no overflow. Lowest external level is 97.30
New TWL is 97.545 which is lower than all external levels as a result of downstream overflow swale
With an overflow swale on S8149, the TWL is reduced to 96.552 so plots 567 and 568 are no longer affected. Drainage doesn't flood but again will surcharge.
25m3 of flooding originally contained within highway. Overflow swale on S8149 reduces TWL 96.323. Plots 558, 559 & 560 lifted by 250mm to 96.55 to avoid private drainage flooding
TWL is now 96.817 so plots now unaffected.
TWL is now 96.823 so this is now resolved.
TWL was 97.168 but is now reduced down to 97.15 due to 1.012 being upsized to a 600mm dia pipe. FFLs 544-547 raised to 97.4 to allow no spilling over from private drainage.
With a small overflow swale in the POS off S8135 we can reduce to flooding to 0 and TWL 97.474.
Floods 11.8m3 which is contained in the highway. Water level of 97.110 is the CL in the road. Correct back of footway levels shown on plan and plot raised to allow for drive fall. No flooding will now occur out of any private drainage.
Easy fix here. Gully cover level can change to 97.20

Solved

[illegible]