NOTE:
All Surface Water and Wastewater sewer Pipes shall be protected with a concrete surround, with flexible joints filled with compressible material, where the depth from the road surface to the crown of the pipe is less than 1200mm.
(See STD-WW-07 and STD-WW-08 on drawing no. 19087-C-501 for details of concrete surround to be used on both sewers.)

Legend

- Waste Water Lines (Refer to STD-WW-07 & STD-WW-08)
- Waste Water Manholes (Refer to STD-WW-10, 11 & 12)
- Private service connection & Inspection Chamber (Refer to STD-WW-03 & 13)
- Wastewater Rising Main - Min. Dia. 80mm Layout, pipe sizing & Hydraulic design in accordance with IW-CDS-5030-03 and Details in accordance with IW-CDS-5030-01
- Surface Water Lines
- Surface Water Manholes
- Surface Water Gullies

Key Plan
Scale 1:5000

Notes:
1. All Levels are relative to Ordnance Datum.
2. All coordinates are ITM.
3. Drawings are to be read in conjunction with relevant longitudinal drainage sections and manhole schedules.
4. Minimum cover to pipes under roadways to be 1200mm. Where this can not be achieved, concrete surround and cover should be provided.
5. Manhole Covers to be adjusted to suit finished road levels.
6. D 400 Covers are to be used within roadways and green areas.
7. Manhole covers shall be of non-rock design, square & lockable with closed keyways.
8. Maximum distance between manholes to be 90m.
9. All foul manholes to comply with Irish Water Standard details.
10. Pipe joining shall be as per manufacturers instructions
11. All foul sewer pipes will be uPVC and will have a minimum 3.2mm wall thickness and SN8 stiffness class. Sewer pipes will comply with section 3.13 of the IW Code of Practice for Wastewater Infrastructure (Rev2) July 2020.
12. All foul and storm water pipes running close to houses to have a horizontal distance from the foundations of at least double the vertical distance from the bottom of the foundations to the invert level of the pipe.
13. All storm sewers to comply with Recommendations for Site Development Works for Housing Areas & WDG External Works Specification.
14. Where the foul pipe is deeper than 2.5m, a rider sewer shall be provided to pick up house connections.
15. Storm water shall not be permitted to enter the foul sewer.
16. All connections to the foul sewer shall be made using Tee pieces built into the main line.
17. Built in connections to the foul sewer to facilitate the installation of washing machines and dishwashers to be provided.
18. A separate foul service pipe is to be taken from each house to the main sewer. Common drains are not permitted for use.
19. An inspection chamber in compliance with current IW Standard Details STD-WW-03 and STD-WW-13 will be located within the curtilage of each premises or within 1m of the premises as per section 3.11.13 & 3.11.14 of the wastewater Code of Practice.
20. The maximum backdrop permitted in foul manholes is 2.5m - refer to section 3.6 of the Wastewater Code of Practice and STD-WW-12 for more detail.
21. The external face of proposed manhole chambers will be constructed a minimum of 0.5m from a kerb line and the external face of a sewer line will be constructed a minimum of 1.0m from a kerb line in accordance with section 3.5.16 of the Wastewater Code of Practice.
22. The hydraulic design of the rising main shall be in accordance with section 3.7 of the current issue of IW-CDS-5030-03. Minimum pipe diameter for the rising main shall be 80mm.
23. Rising main pipe materials and fittings shall be in accordance with Sections 3.14 and 3.17 of the current issue of IW-CDS-5030-03.
24. The rising main shall terminate at a discharge stand-off manhole in accordance with IW standard detail STD-WW-29.
25. All foul sewer construction details to comply with the following Irish Water Documents:

IW-CDS-5030-01 Wastewater infrastructure Standard Details, July 2020, Revision 4.
IW-CDS-5030-03 Code of practice for Wastewater Infrastructure, July 2020, Revision 2.

Gullies
Gullies shall be positioned throughout the estate roads for the collection of surface water from footpaths, roads, driveways, parking bays and other impervious areas for discharge into the drainage system. The minimum rate of gully provision recommended in 'Recommendations for Site Development Works for Housing Areas' is one per 200m^2 of hard surface. Gullies shall be constructed at the estate entrance to ensure that surface water will not flow onto the public road. Existing roadside drainage arrangements shall be preserved.

All gullies in the roadways will be precast concrete complying with the requirements of BS 5911: Part 230. The outlet from the gullies will be 150mm diameter pipe set a minimum of 375mm off the floor of the chamber. This allows for debris and silt that falls through the grating to settle below the invert of the outlet pipe. The silt in gullies must be regularly cleaned out as part of the silt management and maintenance schedule in the operational phase of the housing development.

The class of gully grating required will be D400 as per the manhole covers. Gully gratings in roads will be set with the direction of the openings at right angles to the direction of traffic.

Issue	Description	Date	Drn	Ckd
B	Issued for planning	05.05.22	IR	MW
A	Issued for pre-planning	05.02.21	IR	MW

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Title:	Site Layout - Drainage Sheet 1 of 3
Client:	Cumnor Construction Ltd.
Project:	Proposed Residential Development Coolcarron, Fermoy, Co. Cork
Drg. No:	19074-P-002-1
Date:	Jan 2020
Drawn by:	IR
Scale:	1:500
Status:	Planning
	B

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