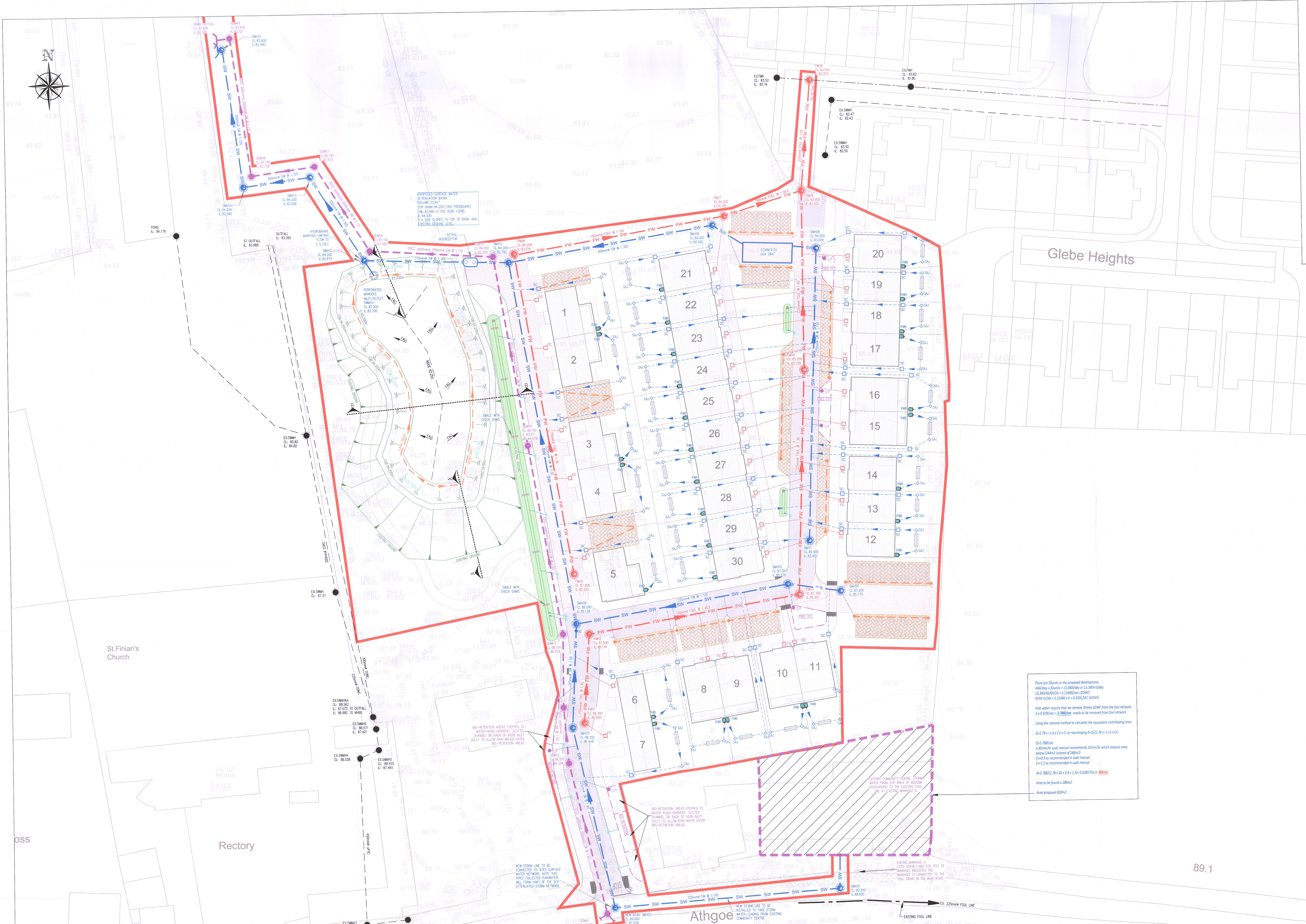




LEGEND

- EXISTING FOUL SEWER
- EXISTING SURFACE WATER DITCH
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED 300mm additional 450mm SW
- PROPOSED 150mm PERFORATED PIPE (PERMEABLE PAVING COLLECTOR PIPE)
- PROPOSED PERMEABLE PAVING
- PROPOSED PERMEABLE COLLECTION INSPECTION CHAMBER
- PROPOSED TREE PIT
- PROPOSED OVERFLOW FROM TREE PITS
- PROPOSED ROAD GULLY
- PROPOSED RAINWATER BUTT
- PROPOSED SEAR GARDEN INFILTRATION TRENCH WITH PERFORATED COLLECTOR PIPE
- PROPOSED SNAKE
- PROPOSED SNAKE COLLECTION CHAMBER WITH GRATED ID
- SNAKE CHECK DAM



There are 30 units in the proposed development.
 4465/Day x 30units = 13,395/Day or 13.395m³/Day
 13,395/30/24 = 0.1848/Sec (120W)
 0.1848/Sec = 0.2548m³/s = 0.002548m³/s (SW)
 High water requires that we remove 30mm SW from the foul network.
 3 x 0.025/Sec = 0.075/Sec needs to be removed from foul network
 Using the rational method to calculate the equivalent contributing area
 C=0.78 x 1 x A x C₁ x C₂ or rearranging A=(C₁ x C₂) / (C x 0.78)
 C=0.78/Sec
 0.025/Sec is the rational method recommendation; 25mm/s which reduces one below (24mm/s) instead of 28mm/s
 C=0.9 as recommended in such manual
 C=1.0 as recommended in such manual
 A=2.788/(0.78 x 30 x 0.9 x 1.3) = 0.02837ha or 283m²
 Area to be found is 283m²
 Area proposed 620m²

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- NOTES**
- For setting out refer to Architect's drawings.
 - This drawing is to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Drawn By	Checked By
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P2	10.08.2022	REVISED AND REBUILT FOR PLANNING	SC	SB

Architect	JFOC Architects Proposed Development at Newcastle, Co. Dublin
Title	Proposed Drainage Layout
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