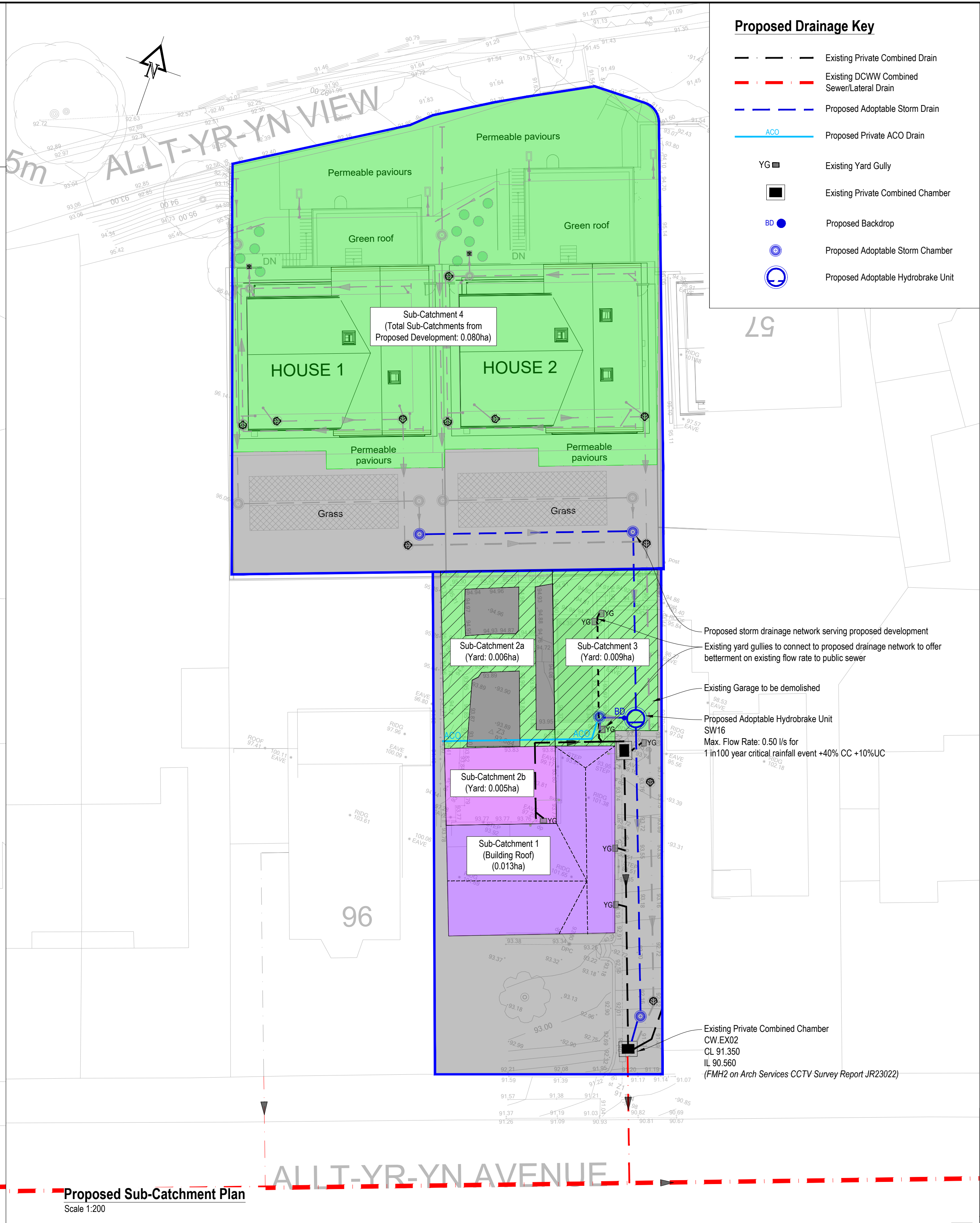
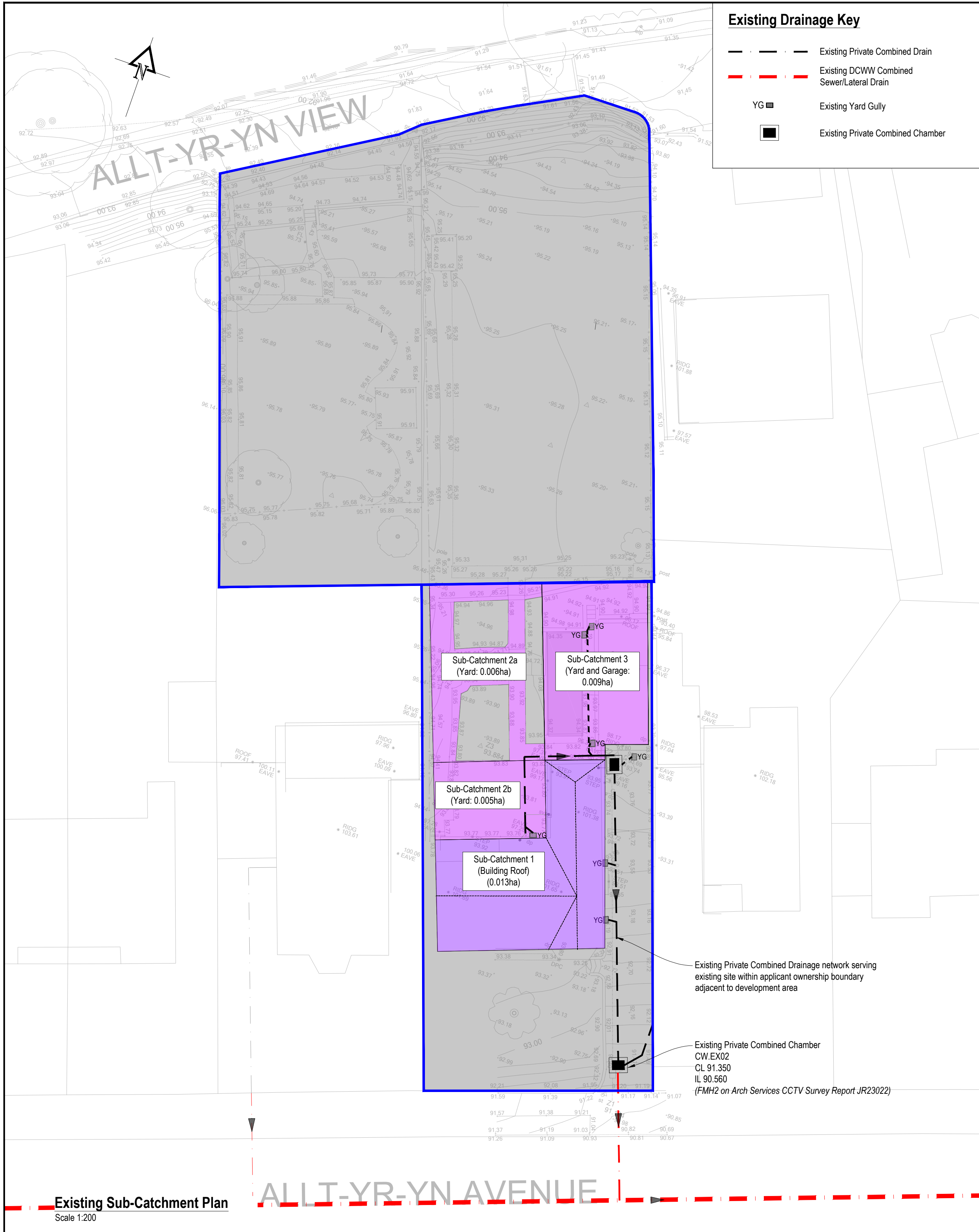




- Notes:**
- This drawing is to be read in conjunction with all other architect, surveys and Bear Structures project drawings/specifications.
 - This drawing has been produced for information only and is not to be used for construction.
 - Proposed drainage layout shown indicatively.
 - All existing drainage levels and outfall points shall be surveyed and verified by the contractor prior to the commencement of the works. any discrepancies shall be reported to the engineer immediately
 - Pipework under adoptable highway with less than 1.2m cover, and other trafficked areas with less than 0.9m cover to receive concrete encasement
 - Manhole/inspection chamber covers should not bridge different surfaces. chamber cover class to be D400 in trafficked areas or C250 in pedestrian-only areas
 - Where two pipelines (other than plastic pipes) cross with less than 300mm separation pipes are to be surrounded with class z concrete surround for not less than 1m centered on the crossing point. concrete surround to be extended as necessary to within 150mm of nearest flexible joints
 - All pipework to be laid with soffit to soffit connections unless noted otherwise.
 - All private drainage to be installed in accordance with current approved document - building regulations part H
 - All connections to the public sewerage system are to be made to the satisfaction of the adopting authority and will be subject to a section 104/106 application to be carried out by the contractor
 - It is recommended that the downstream connections and inverts are confirmed prior to construction of any drainage. drainage should then be installed from the connection point to the discharge collection points (gullies/rwp's/svp's)
 - All dimensions in metres unless noted otherwise.

DRAFT

Rev.	Date.	Details.	By.	Chk.
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Amendments



Bear Structures
Rugged by design

Sophia House 28 Cathedral Road Cardiff CF11 9LJ
United Kingdom 029 20 304 979

Project:
Land to Rear of 94 & 96 Allt-Yr-Yn Avenue, Newport

Title:
SUB-CATCHMENT AREAS TO DCWW PUBLIC SEWER COMPARISON

Drawing Status:
INFORMATION

Drawn:	Checked:	Scale(s) at A1:
WH	PC	1:200
Date:	Job No:	Revision
14/06/2024	P0377	SK10

Existing Key

- Applicant Ownership Boundary (0.170ha)
- Existing Area NOT Currently Discharging to DCWW Public Sewer (0.137 ha)
- Existing Area Currently Discharging to DCWW Public Sewer via Existing Chamber CW.EX02 With **UNRESTRICTED** Flow Rate (Sub-Catchment 1 + Sub-Catchment 2a + Sub-Catchment 2b + Sub-Catchment 3: 0.033ha)
Total Area = 0.170ha

Existing Flow Rate Discharging into DCWW Public Sewer via Existing Chamber CW.EX02
=2.78 x 0.033ha x 50mm/hr x 1.0 (Modified Rational Method)
=4.59l/s

Proposed Key

- Applicant Ownership Boundary (0.170ha)
- Proposed Area NOT Discharging to DCWW Public Sewer (0.057 ha)
- Existing Area Discharging to DCWW Public Sewer via Existing Chamber CW.EX02 With **UNRESTRICTED** Flow Rate As Per Existing Site Setting (Sub-Catchment 1 + Sub-Catchment 2b: 0.018ha)
- Proposed Area to Discharge to DCWW Public Sewer **RESTRICTED GREENFIELD RUNOFF RATE** (Sub-Catchment 2a + Sub-Catchment 3 + Sub-Catchment 4: 0.095ha)
Total Area = 0.170ha
- Area of Existing Site (Sub-Catchment 2a + Sub-Catchment 3) To Be Diverted Into Proposed Drainage System To Offer Hydraulic Control Betterment (0.015ha)

Proposed Post-Development Flow Rate Discharging into DCWW Public Sewer via Existing Chamber CW.EX02
= 2.78 x 0.018ha x 50mm/hr x 1.0 (Modified Rational Method - Existing)
+ 0.095ha x 6.25l/s/ha (Greenfield Runoff Rate - Proposed)
= (2.50l/s) + (0.059l/s)
= 3.09l/s

Proposed Betterment = 33% reduction