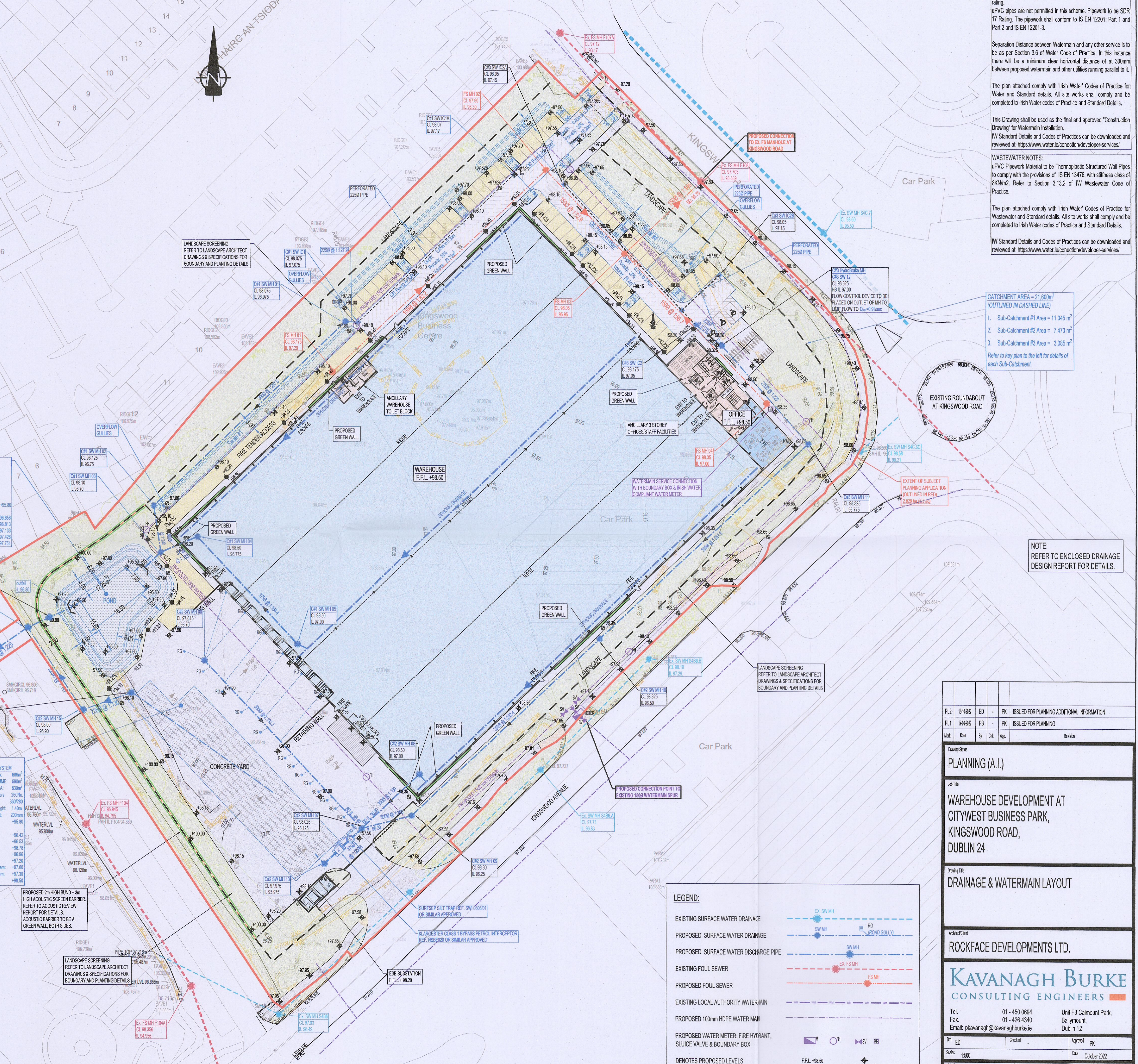


- PROPOSED SuDS DEVICES THROUGHOUT DEVELOPMENT:**
- PERMEABLE PAVING (TO THE ACCESS ROAD TO THE CAR PARKING);
 - GRASSCRETE PAVING (TO THE CAR PARKING SPACES AND FIRE TENDER ACCESS);
 - GREEN WALLS (TO EACH SIDE OF BUILDING);
 - TREE PITS (AT THE CAR PARKING AREA AS PER LANDSCAPING DRAWINGS);
 - SWALES (LINED UP BEHIND CAR PARKING SPACES);
 - POND;
 - UNDERGROUND "STORMTECH" ATTENUATION TANK;
 - FLOW CONTROL DEVICES (TO THE OUTLETS OF ALL STORAGE SYSTEMS);
 - SILT TRAP & PETROL INTERCEPTOR (TO THE INLET OF TO UNDERGROUND ATTENUATION SYSTEM).
- FOR DETAILS AND CROSS SECTIONS OF EACH ABOVE LISTED SuDS DEVICE REFER TO DRAWING REF. D1736 - D4 - SuDS & DRAINAGE DETAILS.

- LEGEND**
- DENOTES PROPOSED CONCRETE FOOTPATH
 - DENOTES LANDSCAPING FOR DETAILS REFER TO LANDSCAPE ARCHITECT DRAWINGS AND SPECIFICATIONS
 - DENOTES PERMEABLE PAVING FOR DETAILS REFER TO LANDSCAPE ARCHITECT DRAWINGS AND SPECIFICATIONS
 - DENOTES GRASSCRETE TO FIRE TENDER ROAD & PARKING SPACES. FOR DETAILS REFER TO LANDSCAPE ARCHITECT DRAWINGS AND SPECIFICATIONS
 - DENOTES CONCRETE TO PROPOSED YARD

- PROPOSED ATTENUATION SYSTEM**
- MIN. required storage capacity: 690m³
 - PROVIDED STORAGE VOLUME: 690m³
 - PROPOSED STORAGE AREA: 830m²
 - StormTech SC-740 chambers: 280m²
 - Stone Above/Below (mm): 360/280
 - Overall SC-740 system Height: 1.40m
 - Interception Storage Height: 200mm
 - BASE OF TANK: +95.90
 - HIGH WATER LEVEL:
 - 1Y Storm, 20%CC: +96.42
 - 2Y Storm, 20%CC: +96.53
 - 10Y Storm, 20%CC: +96.78
 - 30Y Storm, 20%CC: +96.96
 - 100Y Storm, 20%CC: +97.20
 - max. ground level above system: +97.60
 - min. ground level above system: +97.50
 - Catchment's F.F.L.: +98.50

- DISCHARGE FROM SITE TO GREENFIELD RUNOFF RATE - Q_{max}**
- CPI = 2.28 l/s
 CPE = 2.18 l/s (incorporating CR3 = 0.90 l/s)
 Therefore, Q_{max} (CPI, CR2, CR3) ≤ Q_{max} = 2.28 l/s + 2.18 l/s ≤ 4.46 l/s



WATER NOTES:
 Watermain Pipework Material to be PE (Polyethylene) with PE 80 rating.
 uPVC pipes are not permitted in this scheme. Pipework to be SDR 17 Rating. The pipework shall conform to IS EN 12201: Part 1 and Part 2 and IS EN 12201-3.

Separation Distance between Watermain and any other service is to be as per Section 3.6 of Water Code of Practice. In this instance there will be a minimum clear horizontal distance of at 300mm between proposed watermain and other utilities running parallel to it.

The plan attached comply with 'Irish Water' Codes of Practice for Water and Standard details. All site works shall comply and be completed to Irish Water codes of Practice and Standard Details.

This Drawing shall be used as the final and approved 'Construction Drawing' for Watermain Installation.
 IW Standard Details and Codes of Practices can be downloaded and reviewed at: <https://www.water.ie/connection/developer-services/>

WASTEWATER NOTES:
 uPVC Pipework Material to be Thermoplastic Structured Wall Pipes to comply with the provisions of IS EN 13476, with stiffness class of 80Nm². Refer to Section 3.13.2 of IW Wastewater Code of Practice.

The plan attached comply with 'Irish Water' Codes of Practice for Wastewater and Standard details. All site works shall comply and be completed to Irish Water codes of Practice and Standard Details.

IW Standard Details and Codes of Practices can be downloaded and reviewed at: <https://www.water.ie/connection/developer-services/>

- CATCHMENT AREA = 21,600m²**
 (OUTLINED IN DASHED LINE)
- Sub-Catchment #1 Area = 11,045 m²
 - Sub-Catchment #2 Area = 7,470 m²
 - Sub-Catchment #3 Area = 3,085 m²
- Refer to key plan to the left for details of each Sub-Catchment.

NOTE:
 REFER TO ENCLOSED DRAINAGE DESIGN REPORT FOR DETAILS.

PL2	18/10/22	ED	PK	ISSUED FOR PLANNING ADDITIONAL INFORMATION	
PL1	17/06/22	PB	PK	ISSUED FOR PLANNING	
Mark	Date	By	Chk	App.	Revision

PLANNING (A.I.)

WAREHOUSE DEVELOPMENT AT CITYWEST BUSINESS PARK, KINGSWOOD ROAD, DUBLIN 24

DRAINAGE & WATERMAIN LAYOUT

Address/Client: **ROCKFACE DEVELOPMENTS LTD.**

KAVANAGH BURKE CONSULTING ENGINEERS

Tel. 01-450 0694 Unit F3 Calmount Park, Ballymount, Dublin 12
 Fax. 01-426 4340
 Email: pkavanagh@kavanaghburke.ie

Dr	ED	Checked	Approved	PK
Scale	1:500	Date	October 2022	
Job No.	D1736	Drawing No.	D3	Rev.
				PL2

