

NORTHERN UNDERGROUND STORAGE ATTENUATION SYSTEM SC 71
 TOTAL VOLUME PROVIDED: 2,022 m³
 TOTAL AREA: 1570 m²
 113 no CHAMBERS, 16 no END CAPS
 BASE OF TANK LEVEL: @ +77.30
 HWL: @ +78.30
 REFER TO DRG REF D188-01 FOR DETAILS

WESTERN UNDERGROUND STORAGE ATTENUATION SYSTEM SC 72
 TOTAL VOLUME PROVIDED: 1822 m³
 TOTAL AREA: 1065 m²
 133 no CHAMBERS
 BASE OF TANK LEVEL: @ +78.00
 HWL: @ +79.30
 REFER TO DRG REF D188-01 FOR DETAILS

EXTENT OF LAND IN APPLICANT'S OWNERSHIP OUTLINED IN BLUE

CATCHMENT AREA OUTLINED IN BLACK DASHED LINE A=3.816 ha (9.425 ac)

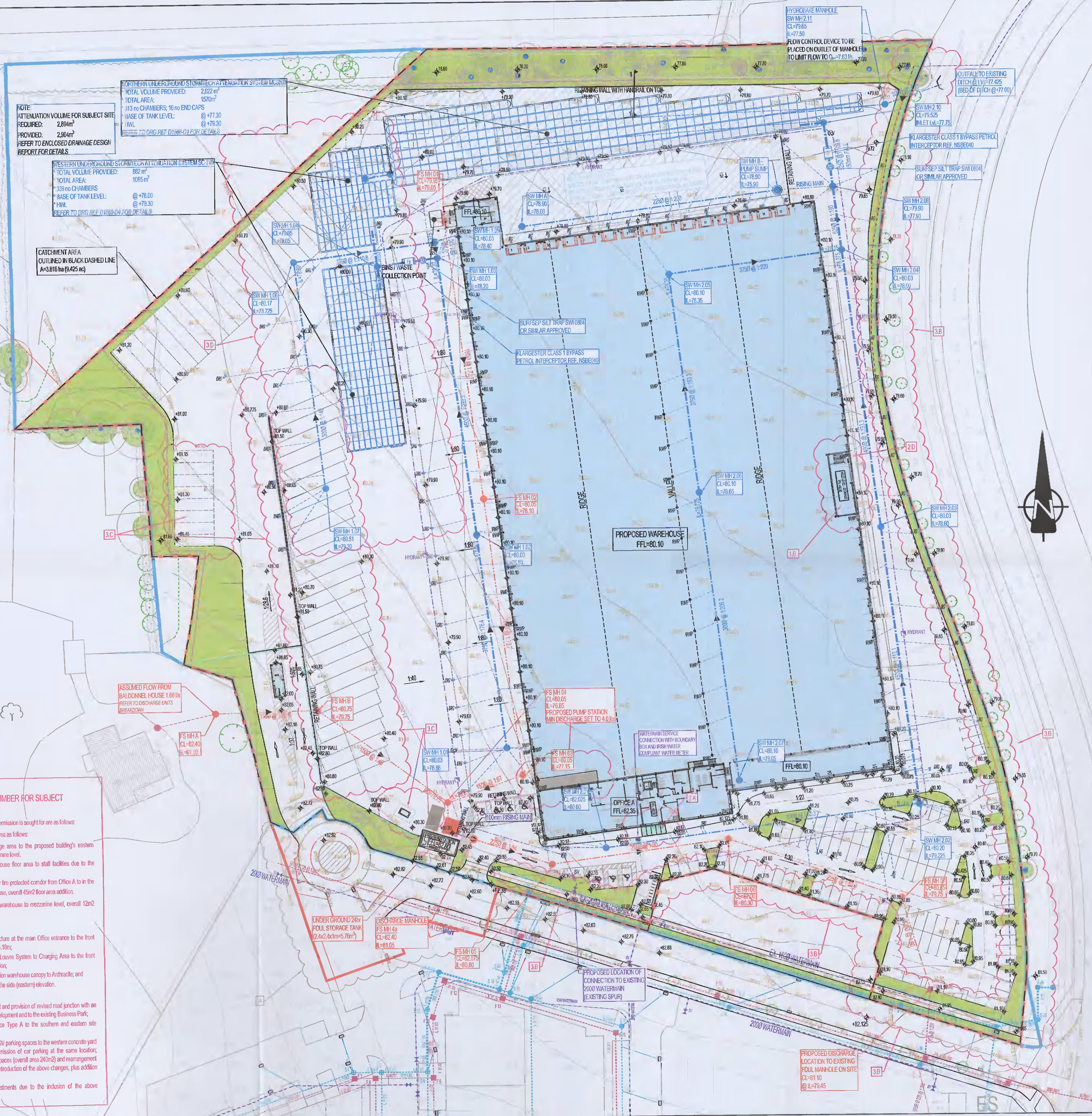
EXTENT OF SUBJECT PLANNING APPLICATION OUTLINED IN RED A=4.0ha (9.883 ac)

ASSUMED FLOW FROM BALDONNEL HOUSE 1.66 l/s REFER TO DISCHARGE UNITS (SEE DRAWING)

1 2 3 - ALTERATION NUMBER FOR SUBJECT APPLICATION

The subject alterations for which Planning Permission is sought for are as follows:

1. Reconfiguration of the ground floor area as follows:
 - A. Provision of a new ancillary storage area to the proposed building's eastern elevation measuring 75m², at mezzanine level.
 - B. Change of Use of 57m² of warehouse floor area to staff facilities due to the following:
 - B.1. Addition of single storey fire protected corridor from Office A to in the south-west corner of the warehouse, overall 45m² floor area addition.
 - B.2. Addition of stairs from warehouse to mezzanine level, overall 12m² floor area addition.
2. Elevation alterations:
 - A. Introduction of covered glazed structure at the main Office entrance to the front (southern) elevation, overall height 6.10m.
 - B. Introduction of Integrated Modular Louvre System to Charging Area to the front (southern) and side (eastern) elevation.
 - C. Change of colour of southern elevation warehouse canopy to Anthracite; and
 - D. Introduction of fire escape doors to the side (eastern) elevation.
3. Site plan alterations:
 - A. Omission of an existing roundabout and provision of revised road junction with an access/egress to the proposed development and to the existing Business Park;
 - B. Provision of a new boundary fence Type A to the southern and eastern site boundary;
 - C. Introduction of additional 26 No. HOV parking spaces to the western concrete yard (overall area 1547m²) and the omission of car parking at the same location; introduction of 8 No. van parking spaces (overall area 240m²) and rearrangement of car parking spaces due to introduction of the above changes; plus addition of gas tank and generator; and
 - D. Associated drainage layout adjustments due to the inclusion of the above alterations.



NOTE: DRAINAGE ARRANGEMENT IN PRINCIPAL REMAIN THE SAME AS THE PREVIOUSLY GRANTED APPLICATIONS REG. REF. S0184/014; S0184/008 & S0204/007. FOUL SEWER NETWORK HAS BEEN REDESIGNED AS PER NEW ROUTE AND NEW LOCATION OF PUMPING STATION, AS SHOWN. SURFACE WATER DRAINAGE HAS BEEN SLIGHTLY ADJUSTED IN A FORM OF CHANGING THE LOCATION OF SURFACE WATER ATTENUATION SYSTEM AND THEIR CROSS SECTION. REFER TO ENCLOSED DRAINAGE DESIGN REPORT FOR REVISED CALCULATIONS.

STORM WATER DRAINAGE PIPE MATERIALS

EXTRACTED FROM IRISH WATER "GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS"
 11.3. Pipe Types:
 The following must be used in the construction of main pipelines or connections from gullies or private drains. The list below applies to all the Local Sanitary Authorities apart from Dublin City Council who do not approve the use of uPVC pipes in the public area.
 11.3.1. Concrete;
 Concrete sewer pipes with spigot and socket joints and rubber rings fittings to comply with IS EN 1916 and IS 6 2004 or equivalent standard. Class M or class H.
 11.3.2. Clayware;
 Vitreous clay pipes and fittings must comply with the requirements of IS EN 295-1/2/3/1992 or equivalent standard. Class 160 or 200.
 11.3.3. uPVC;
 Unplasticised P.V.C. pipes must comply with the "Provisional Specification for Soil Pipes, Drains, Sewers and Fittings made of unplasticised P.V.C." issued by the Department of the Environment.
 B.S. 8006: Part 1 - Sewerage or equivalent.
 B.S. 8010: Part 2 - Pipelines on land or equivalent; design, construction and installation;
 B.S. 5955: Part 6 Code of Practice for the installation of unplasticised P.V.C. pipework for Gravity Drains and Sewers or equivalent.
 EN1401 - Unplasticised P.V.C. sewer pipe specification
 BS 4514 - Unplasticised P.V.C. soil pipe specification
 DOE/ILG 'Site Development Works' and Section H of the Building Regulations
 11.3.1. Other;
 The use of alternative pipe types requires the prior express written approval of the Local Sanitary Authority.
 11.3.2. Pipe material should not change between manholes.
 11.3.3. The installation of sewers by pipejacking/drilling should have the prior written approval of the Local Sanitary Authority.
 11.3.4. The Developer must obtain written permission from the Local Sanitary Authority when pipes are to be laid in landfill, contaminated sites or poor ground.

FOUL SEWER PIPE MATERIALS

EXTRACTED FROM IRISH WATER "CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE" IW-CDS-5030-03
 3.13 Gravidy Sewer Pipe Material Types
 The types and fittings outlined herein shall be used in the construction of the Gravidy Sewers. Pipe material should not change between manholes. The list below does not apply to pipes installed by pipe jacking or micro tunnelling.
 3.13.1 Concrete; Concrete Sewer pipes with spigot and socket joints and rubber ring fittings shall comply with IS EN 1916 (2002), BS 5911, Part 1 (2002 - 2010) and IS 6 (2004) or equivalent standard, strength Class 120 with minimum crushing loads in accordance with Table 6 of BS 5911-1 (2002-2010). All pipes and fittings shall have gasket type joints of spigot and socket or retailed form. (Pipe diameters 225mm and above)
 3.13.2 Thermoplastic Structured Wall Pipes; Thermoplastic structured wall pipes shall comply with the provisions of IS EN 13476 (2007/2009) and with WIS 4-35-01 (2000). Pipes to be of Stiffness Class 8kN/m² and to be capable of demonstrating a jetting resistance of 4,000 psi (280 Bar) without damage when tested in accordance with Section 6.10 of WIS 4-35-01. (Pipe diameters 150mm up to 450mm);
 3.13.3 Unplasticised PVC, Unplasticised PVC pipes, joints and fittings for service connections shall comply with the provisions of BS 4660 and BS EN 1401 - Part 1. Push fit joints shall be spigot and socket. (Pipe diameter 100mm);
 3.13.4 Other; The use of alternative pipe types and materials will require the prior written agreement of Irish Water.

Watermain Materials Selection: Mains and Service Connections
 Water Mains suitable for Works and approved by Irish Water shall be either ductile iron (DI) or polyethylene (PE), with PE80 or PE100 ratings (MDPE, HDPE or HPE). All plastic water pipes shall be blue in colour. uPVC pipes shall not be used on water supply networks, unless a compelling reason is provided for its use.



Mark	Date	By	CHK	App.	Reason
PL7	19/12/22	ED	-	-	ISSUED FOR PLANNING ALTERATIONS ADDITIONAL INFORMATION
PL6	23/03/22	ED	-	-	ISSUED FOR FURTHER PLANNING ALTERATIONS

PLANNING ALTERATIONS 2021 (A.1.)

Job Title
PROPOSED DEVELOPMENT AT KINGSWOOD BUSINESS PARK, BALDONNEL, DUBLIN 22

Drawing Title
DRAINAGE & WATERMAIN LAYOUT

Architect/Client
JMC VAN TRANS LTD

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Dim	ED	Checked	Approved	15
Scale	1:500			15
Job No.	D1568	Drawing No.	D3	Rev.
				PL7