

COLLEGELAND
Fearann an Choláiste

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 manholes. 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 ring fittings to comply with IS EN 1916 and IS 6204 or equivalent standard. Class M or class H.

11.3.2 Clayware
Verified clay pipes and fittings must comply with the requirements of I.S. EN 255-1203:1992 or equivalent standard. Class 100 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. 8005: Part 1 - Sewerage or equivalent.
B.S. 8010: Part 2 - Pipelines on land or equivalent design, construction and installation.
B.S. 5655: Part 6 Code of Practice for the Installation of unplasticised P.V.C. Pipes for Gravity Drains and Sewers or equivalent.
EN1401 - Unplasticised P.V.C. sewer pipe specification
B.S.4514 - Unplasticised P.V.C. soil pipe specification
DeVEIG 'Site Development Works' and Section H of the Building Regulations

11.3.1.1 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 jacking/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 on poor ground.

FOUL SEWER PIPE MATERIALS
EXTRACTED FROM IRISH WATER 'CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE' - IW-CD-503-03

3.13 Gravity Sewer Pipe Material Types
The types and fittings outlined herein shall be used in the construction of the Gravity Sewers. Pipe material should not change between manholes. The list below does not apply to pipes installed by pipe jacking or micro tunneling.

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 6204 or equivalent standard, strength Class 120 with minimum crushing loads in accordance with Table 8 of BS 5911-1 (2002-2010). All pipes and fittings shall have gasket type joints of spigot and socket or related form. (Pipe diameters 225mm and above)

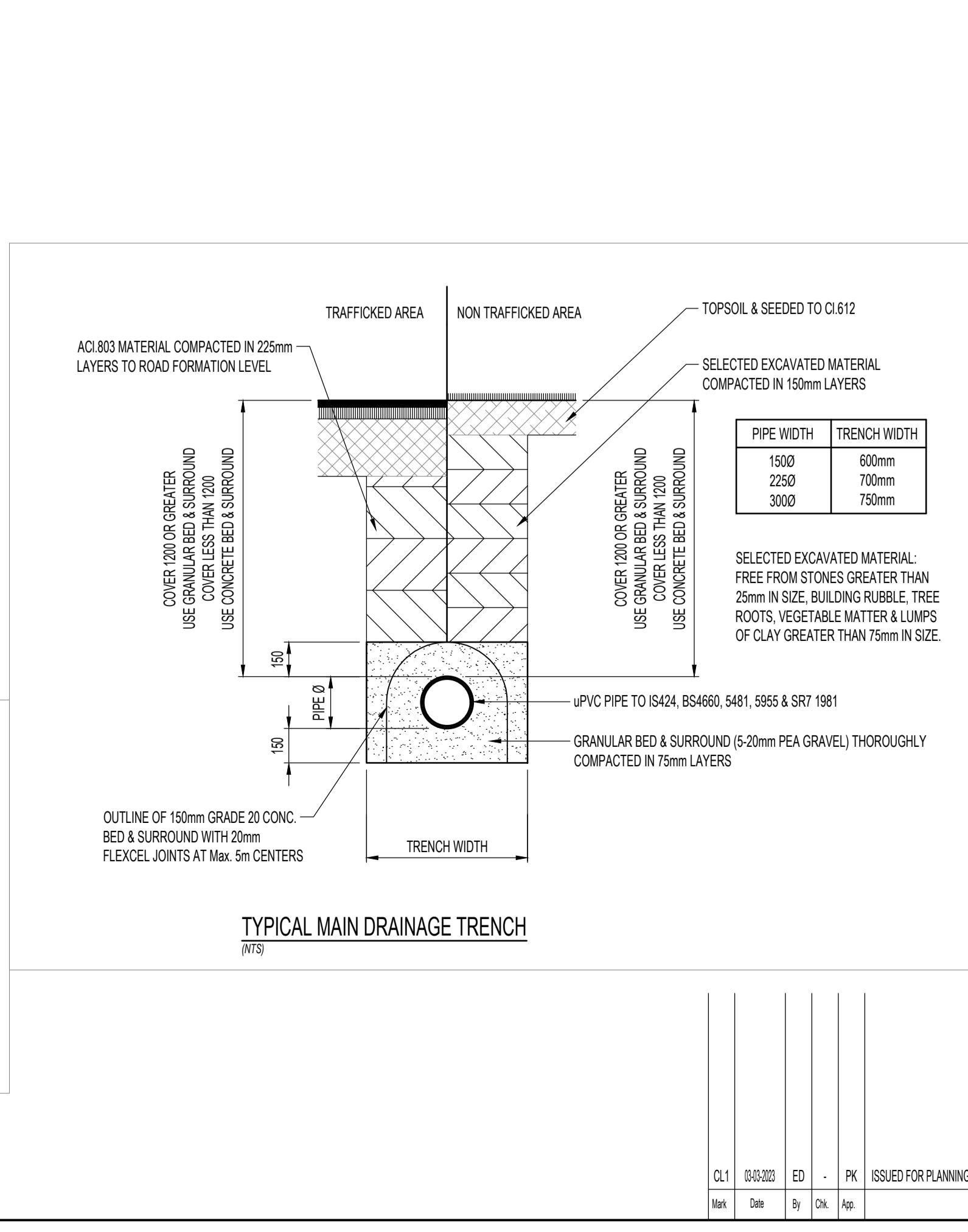
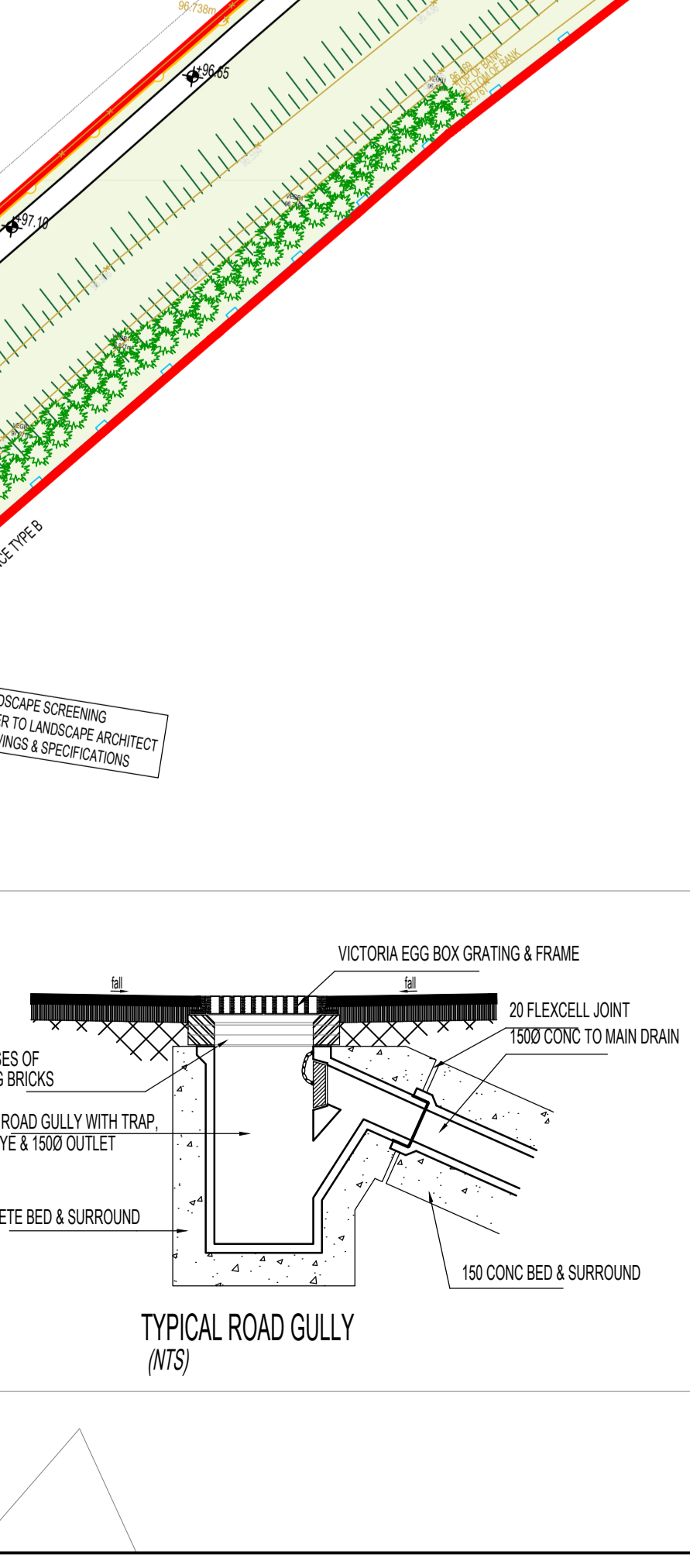
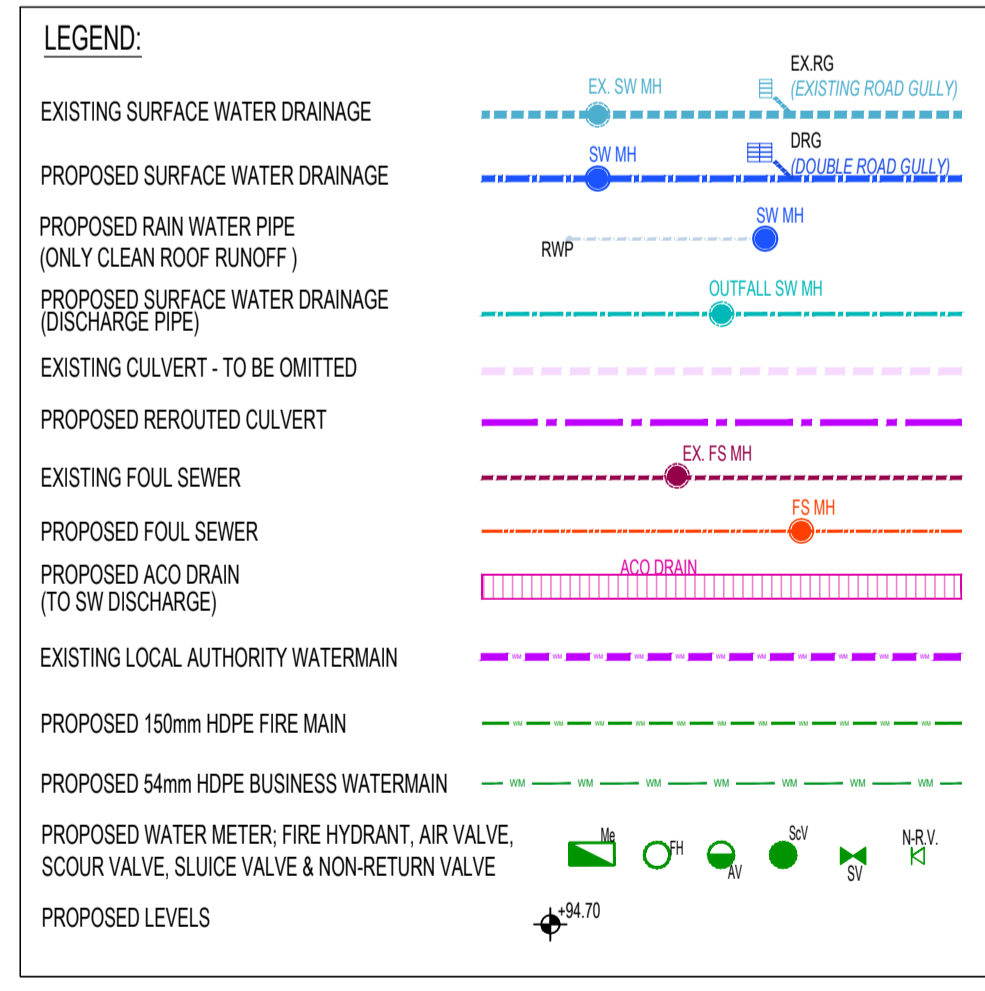
3.13.2 Thermoplastic Structured Wall Pipes
Thermoplastic structured wall pipes shall comply with the provisions of IS EN 13476 (2007/2009) and with WS 4-35-01 (2003). Pipes to be of stiffness Class B(N) and to be capable of demonstrating a jacking resistance of 4,000 psi (280 bar) without damage when tested in accordance with Section 6.10 of WS 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 PE30 or PE100 rating (MDPE, HDPE or HPPPE). 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.

Pipe Size (ID) mm	Pipe Material
25 to 80	HDPE and MDPE
100 to 150	HDPE, MDPE and DI
200 to 300	HDPE, MDPE and DI
350 to 600	HPPPE and DI
>600	DI



WAREHOUSE DEVELOPMENT AT SITE R, JORDANSTOWN ROAD, AERODROME BUSINESS PARK, RATHCOOLE, Co. DUBLIN

DRAINAGE & WATERMAIN LAYOUT

ISSUED FOR PLANNING COMPLIANCE

EXETER RELAND PROPERTY IV C LIMITED

PLANNING COMPLIANCE

DATE: 15/01/2023

SCALE: D1693

UNIT: D4

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