

KEY PLAN
SCALE 1:4000

LEGEND

	EXISTING STORM SEWER
	EXISTING FOUL SEWER
	PROPOSED STORM SEWER
	PROPOSED FOUL SEWER
	PROPOSED FRENCH DRAIN
	PROPOSED CHANNEL DRAINAGE
	Fxxx PROPOSED FOUL MANHOLE
	Sxxx PROPOSED STORM MANHOLE
	600mm Dia CATCHPIT CHAMBERS (LAND DRAINAGE) - 1.2m Deep
	EXISTING STORM SEWER - TO BE REMOVED
	EXISTING FOUL SEWER - TO BE REMOVED
	PROPOSED TRAPPED GULLY LOCATIONS ARE INDICATIVE ONLY AND WILL BE SUBJECT TO FURTHER DEVELOPMENT AT DETAILED DESIGN STAGE
	PROPOSED GULLIES TO REPLACE EXISTING DRAINS AND CONNECT TO EXISTING SEWER. LOCATIONS ARE INDICATIVE ONLY AND WILL BE SUBJECT TO FURTHER DEVELOPMENT AT DETAILED DESIGN STAGE
	SOAKAWAY (REFER TO NOTES)
	ATTENUATION TANK / PETROL INTERCEPTOR (REFER TO NOTES)
	PERMEABLE PAVEMENT
	RAIN GARDEN

Includes Ordnance Survey Ireland data reproduced under OSI Licence No. 2020/OSI/NMA, 158 Monaghan County Council. Unauthorised reproduction infringes Ordnance Survey Ireland, Government of Ireland copyright. © Ordnance Survey Ireland, 2023

P03	08.04.25	Changes for planning issue	DSA
P02	10.02.25	Updated for client review	DSA
P01	07.02.25	First issue for client review	PMcM

Rev Date Description App

Project Manager, Civil & Structural Engineers

McAdam
ENHANCING LOCAL COMMUNITIES

1c Montgomery House T: 028 9040 2000
478 Castlemeagh Road E: admin@mcadamdesign.co.uk
Belfast, BT5 6BQ www.mcadamdesign.co.uk

Landscape Architects

open
optimised environments

Optimised Environments Ltd
Quartermile two, 2 Lister Square
Edinburgh, EH3 9GL
T: 0131 221 5920
www.op-en.co.uk | info@op-en.co.uk

Client

Comhairle Contae Mhuineacháin
Monaghan County Council

Project Status: STAGE 3 - PLANNING

Project: DUBLIN ROAD NORTH

Drawing: PROPOSED DRAINAGE PLANS SHEET 3

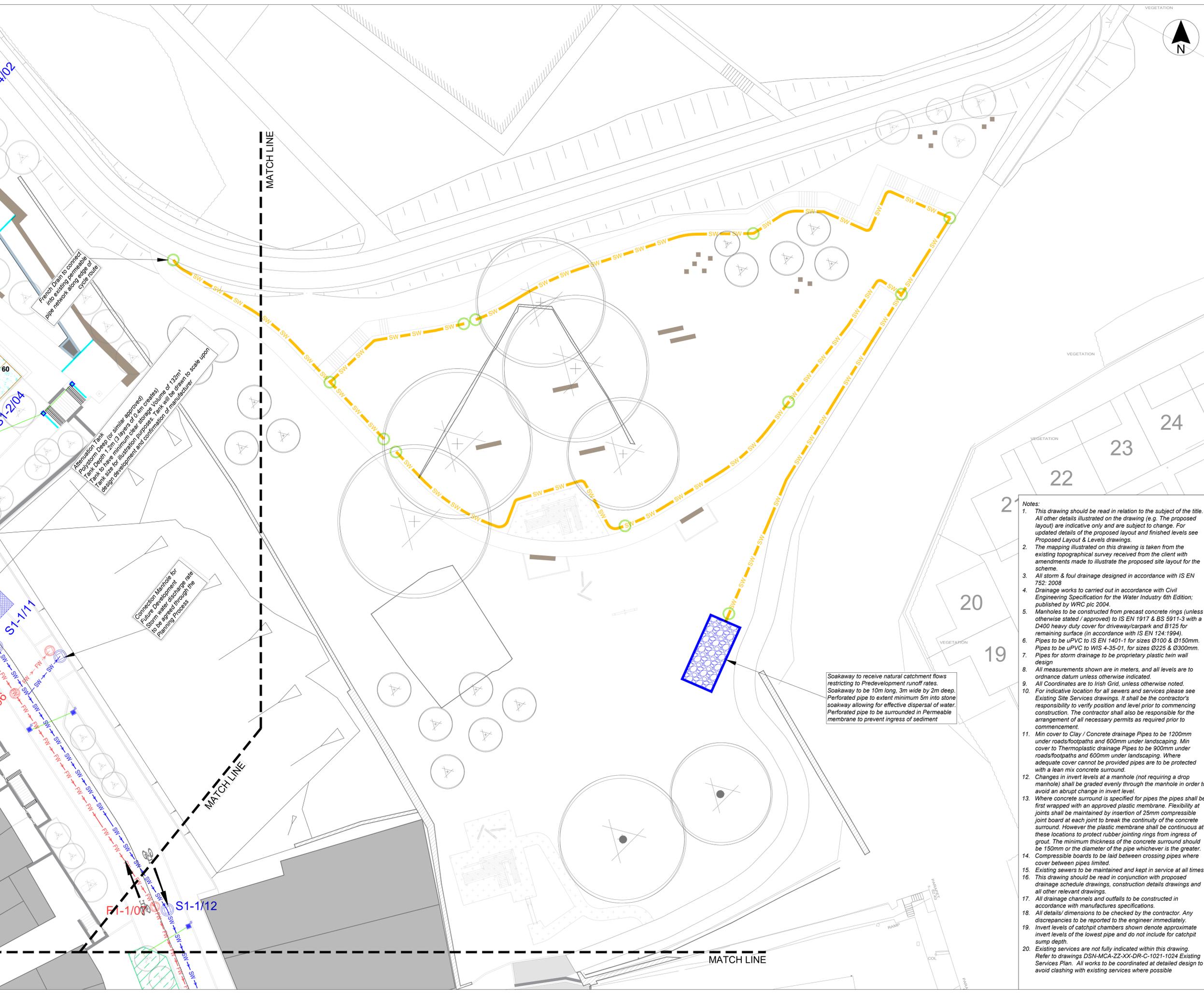
Scale: 1:500 @ A1

Drawn	PMcM	Checked	PA	Approved	KOS
Date	07.02.25	Date	07.02.25	Date	07.02.25

Project	- Organisation	- Zone	- Level	- Type	- Role	- Number	- Revision
DSN	- MCA	- ZZ	- XX	- DR	- CE	- 2003	- P03

Project Number: E2442 Status code & Description: S2 For Information

All dimensions are in metres. Figured dimensions to be taken in preference to scaled dimensions. Dimensions to be checked on site. © 2023 McAdam Design Ltd.



- Notes:**
- This drawing should be read in relation to the subject of the title. All other details illustrated on the drawing (e.g. The proposed layout) are indicative only and are subject to change. For updated details of the proposed layout and finished levels see Proposed Layout & Levels drawings.
 - The mapping illustrated on this drawing is taken from the existing topographical survey received from the client with amendments made to illustrate the proposed site layout for the scheme.
 - All storm & foul drainage designed in accordance with IS EN 752: 2008
 - Drainage works to be carried out in accordance with Civil Engineering Specification for the Water Industry 6th Edition, published by WRC plc 2004.
 - Manholes to be constructed from precast concrete rings (unless otherwise stated / approved) to IS EN 1917 & BS 5911-3 with a D400 heavy duty cover for driveway/carpark and B125 for remaining surface (in accordance with IS EN 124:1994).
 - Pipes to be uPVC to IS EN 1401-1 for sizes Ø100 & Ø150mm. Pipes to be uPVC to WIS 4-35-01, for sizes Ø225 & Ø300mm.
 - Pipes for storm drainage to be proprietary plastic twin wall design
 - All measurements shown are in meters, and all levels are to ordnance datum unless otherwise indicated.
 - All Coordinates are to Irish Grid, unless otherwise noted.
 - For indicative location for all sewers and services please see Existing Site Services drawings. It shall be the contractor's responsibility to verify position and level prior to commencing construction. The contractor shall also be responsible for the arrangement of all necessary permits as required prior to commencement.
 - Min cover to Clay / Concrete drainage Pipes to be 1200mm under roads/footpaths and 600mm under landscaping. Min cover to Thermoplastic drainage Pipes to be 900mm under roads/footpaths and 600mm under landscaping. Where adequate cover cannot be provided pipes are to be protected with a lean mix concrete surround.
 - Changes in invert levels at a manhole (not requiring a drop manhole) shall be graded evenly through the manhole in order to avoid an abrupt change in invert level.
 - Where concrete surround is specified for pipes the pipes shall be first wrapped with an approved plastic membrane. Flexibility at joints shall be maintained by insertion of 25mm compressible joint board at each joint to break the continuity of the concrete surround. However the plastic membrane shall be continuous at these locations to protect rubber jointing rings from ingress of grout. The minimum thickness of the concrete surround should be 150mm or the diameter of the pipe whichever is the greater.
 - Compressible boards to be laid between crossing pipes where cover between pipes limited.
 - Existing sewers to be maintained and kept in service at all times.
 - This drawing should be read in conjunction with proposed drainage schedule drawings, construction details drawings and all other relevant drawings.
 - All drainage channels and outfalls to be constructed in accordance with manufactures specifications.
 - All details/ dimensions to be checked by the contractor. Any discrepancies to be reported to the engineer immediately. Invert levels of catchpit chambers shown denote approximate invert levels of the lowest pipe and do not include for catchpit sump depth.
 - Existing services are not fully indicated within this drawing. Refer to drawings DSN-MCA-ZZ-XX-DR-C-1021-1024 Existing Services Plan. All works to be coordinated at detailed design to avoid clashing with existing services where possible

French Drain to connect into existing permeable pipe network along edge of cycle route

Attenuation Tank
Population Design Volume of 132m³
Tank Depth 2m (to similar approved) (to similar approved)
Tank to have minimum clear storage volume of 132m³
Tank size for illustration purposes. Tank will be drawn to scale upon design development and confirmation of manufacturer

Connection Manhole for storm water discharge rate to be agreed through the Planning Process

Soakaway to receive natural catchment flows restricting to Predevelopment runoff rates.
Soakaway to be 10m long, 3m wide by 2m deep.
Perforated pipe to extent minimum 5m into stone soakaway allowing for effective dispersal of water.
Perforated pipe to be surrounded in Permeable membrane to prevent ingress of sediment