



MH REF:	COVER LEVEL	INVERT LEVEL	PIPE Ø	DEPTH TO INVERT	MANHOLE TYPE	MANHOLE COVER/FRAME
EX SW 01	49.950	48.535	150	1.415		
SW 01	49.910	48.554	150	1.356	TYPE J	CLASS D400/150mm DP
SW 02	49.890	48.558	150	1.332	TYPE J	CLASS D400/150mm DP
SW 03	49.650	48.568	150	1.082	TYPE J	CLASS D400/150mm DP
SW 04	49.600	48.600	150	1.000	TYPE J	CLASS D400/150mm DP
SW 05	49.600	48.753	150	0.847	TYPE J	CLASS D400/150mm DP
SW 06	49.575	48.806	150	0.769	TYPE J	CLASS D400/150mm DP
SW 07	49.490	48.945	150	0.545	TYPE J	CLASS D400/150mm DP

NOTE: ALL MANHOLE TYPES AS PER GDR CODE OF PRACTICE DRAINAGE

NEW FOUL WATER SEWER	FW03
EX. FOUL WATER SEWER	EX. F3
EX. SURFACE WATER SEWER	EX. S3
NEW SURFACE WATER SEWER	SW03
ROAD GULLY	RG
YARD GULLY	YG
DEMOLITION OF DRAINAGE LINE	---
DROPPED KERB	DK

SITE BOUNDARY	---
OWNERSHIP LINE	---
DEMOLITION LINE	---
SPOT LEVELS	33.00

STORMWATER ATTENUATION:

TOTAL SITE AREA = 1406.5m²

FOR: 100 YEAR RETURN EVENT

QBAF_{rural} = 0.292 LITRES/SECOND

MINIMUM FLOW RATE USING PROPRIETARY FLOW CONTROL DEVICE = 2 LITRES/SECOND

20% INCREASE IN ATTENUATION VOLUME FOR CLIMATE CHANGE

MAX ATTENUATE VOLUME REQUIRED = 36.56m³

VOLUME PROVIDED BY ONLINE ATTENUATION STORAGE SYSTEM: 106.7m³ x 0.39m²/m² = 41.613m³

PROPOSED SURFACE WATER DRAINAGE PLAN
SCALE 1:200

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DETAIL DRAWINGS AND SPECIFICATIONS.

DO NOT SCALE DIMENSIONS. REFER TO ARCHITECTS DRAWINGS FOR ALL SETTING OUT DIMENSIONS. WORK TO FIGURED DIMENSIONS ONLY.

THE ENGINEER IS TO BE AFFORDED SUFFICIENT TIME TO CARRY OUT INSPECTIONS OF THE WORKS IN ACCORDANCE WITH THE PROJECT INSPECTION PLAN AND INSPECTION NOTIFICATION FRAMEWORK.

ALL CONSTRUCTION PRODUCTS TO HAVE RELEVANT CE MARKING WHERE APPLICABLE.

DRAINAGE

ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH IS EN 752:2008, TGD PART 1.

MIN. 150mm C16/20 CONCRETE BED & SURROUND TO BE PROVIDED TO SEWER PIPELINES WHERE THE COVER IS LESS THAN 1.200m UNDER ROADS, VERGES AND FOOTPATHS.

ALL REINSTATEMENT WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.

ALL MANHOLES COVERS AND FRAME ARE TO BE CLASS D400 TO BS EN 124 U.N.G.

SEWER PIPE LINES TO BE SN8 UPVC PIPE UP TO AND INCLUDING 3000 TO IS EN 1401 2008/2012.

SEWER PIPE LINES EXCEEDING 3000 TO BE CONCRETE SPIGOT AND SOCKET PIPES WITH RUBBER RING FITTINGS, TO IS EN 1916 (2002), BS 5911 PART 1 (2002/2010) AND IS 6 (2004), STRENGTH CLASS 120 WITH MINIMUM CRUSHING LOADS IN ACCORDANCE WITH TABLE 8 OF BS 5911-1 (2002-2010).

ALL WASTEWATER MANHOLES, CHAMBERS, TRENCHING AND BACKFILLING TO BE IN STRICT ACCORDANCE WITH IRISH WATER STANDARD DETAILS LATEST EDITION.

ALL SURFACE WATER MANHOLES, CHAMBERS, TRENCHING AND BACKFILLING TO BE IN STRICT ACCORDANCE WITH GDSDS AND GDR CODE OF PRACTICE FOR DRAINAGE WORKS V6.0.

ALL VERTICAL STACK CONNECTIONS TO FOUL SEWER CHAMBERS TO INCORPORATE LONG RADIUS BENDS AND MUST JOIN MAIN SEWER LINE AT 45° TO DIRECTION OF FLOW.

BACKFILL FOR ALL UPVC PIPES TO BE FREE FROM STONE EXCEEDING 50mm FOR 300mm ABOVE GRANULAR SURROUND.

CONTRACTOR TO CONFIRM LOCATION, LINE AND LEVEL OF ALL THE EXISTING SERVICES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE DIVERSION AND/OR THE REPAIR TO ALL EXISTING SERVICES.

Rev	Date	Drn	Chk'd	Description
0	04/03/22	SR	FW	Issued in response to RFI

LOHAN & DONNELLY
Consulting Engineers

13 Gardiner Place, Mountjoy Square, Dublin 1. T: 01 8787770
W: www.lohan-donnelly.com E: info@lohan-donnelly.com

Project: Drive Thru Coffee Unit for New Ireland Assurance Company PLC	Project No: 21192	Eng. No: C03
Scale: @A1	Date: Feb '21	
Drawing: Proposed Surface Water Drainage Plan	Drawn: SR	Rev: 0
Model Reference: 21192-LDE-ZZ-ZZ-M2-SC-0003	Model Rev: P.01.1	
Drawing Reference: 21192-LDE-ZZ-ZZ-DR-SC-1C03	Subtitle: S0	