

Project Title	Improvements to Public Realm to Bridge Street and lands to the rear and side of The Grain Store, John's Street, New Ross, Co. Wexford
Document Title	Drainage planning report
Client	Wexford County Council
File No.	J08_DRPL_010
Author	Tom Culligan
Checked by:	Peter Brunner
Date	27 June 2025
Revision	P1

INTRODUCTION:

This report outlines the proposals for surface water drainage matters associated with the proposed improvements to Public Realm to Bridge Street and lands to the rear and side of The Grain Store, John's Street, New Ross, Wexford.

This report should be read in conjunction with all other drawings and documents as part of this submission.

PROJECT SCALE:

The development will consist of developing the existing lands to the rear and the side of The Grain Store, John's St, New Ross, into a public realm plaza area.

LOCATION:

The proposed development site is located between John Street and Bridge street in New Ross, Co. Wexford.



Fig 1 - Site location map. Subject site in New Ross marked with red X.

PUBLIC DRAINAGE SUPPLY:

The site is serviced by a surface water sewer which drains to the River Barrow to the west. It is proposed to connect to this public drainage system and maintain discharge characteristics.

STORM WATER DRAINAGE:

Wexford County Council (WCC) county development plan require all urban developments of significance to incorporate and provide the full suite of 'sustainable urban drainage systems' (SUDS) measures in order to minimise the extent of hard surfacing, culverting and surface water run-off. This is good practice and we have endeavoured to include as many systems as practicable for this development.

The system we propose at different stages are as follows:

1. Plaza hardstandings to have zoned permeable/landscaped finishes incorporated throughout.

Proposed System:

The proposed development sees rainwater collected and directed to underground drainage through slot drainage channels. This drainage network will collect at the existing surface water outfall chamber, from which it discharges to the River Barrow watercourse via a non-return flap. The replacement of existing impermeable ground level hardstandings with permeable finishes, as well as the incorporation of planting, diminishes the peak stormwater flows to the tidal watercourse.

The surface water network has been designed in accordance with the Building Regulations, Technical Guidance Document Part H

Conclusion:

All surface water run-off from the proposed development will be discharged to watercourse, designed for a 1 in 100-year storm event. *The effective stormwater discharge from the applicant property is decreased by 20% as a result of this development.* Refer to summary of areas below and Appendix A for Site Drainage Layout.

Summary Of Areas :

Total Site Area: 0.1116 Hectares

Existing:

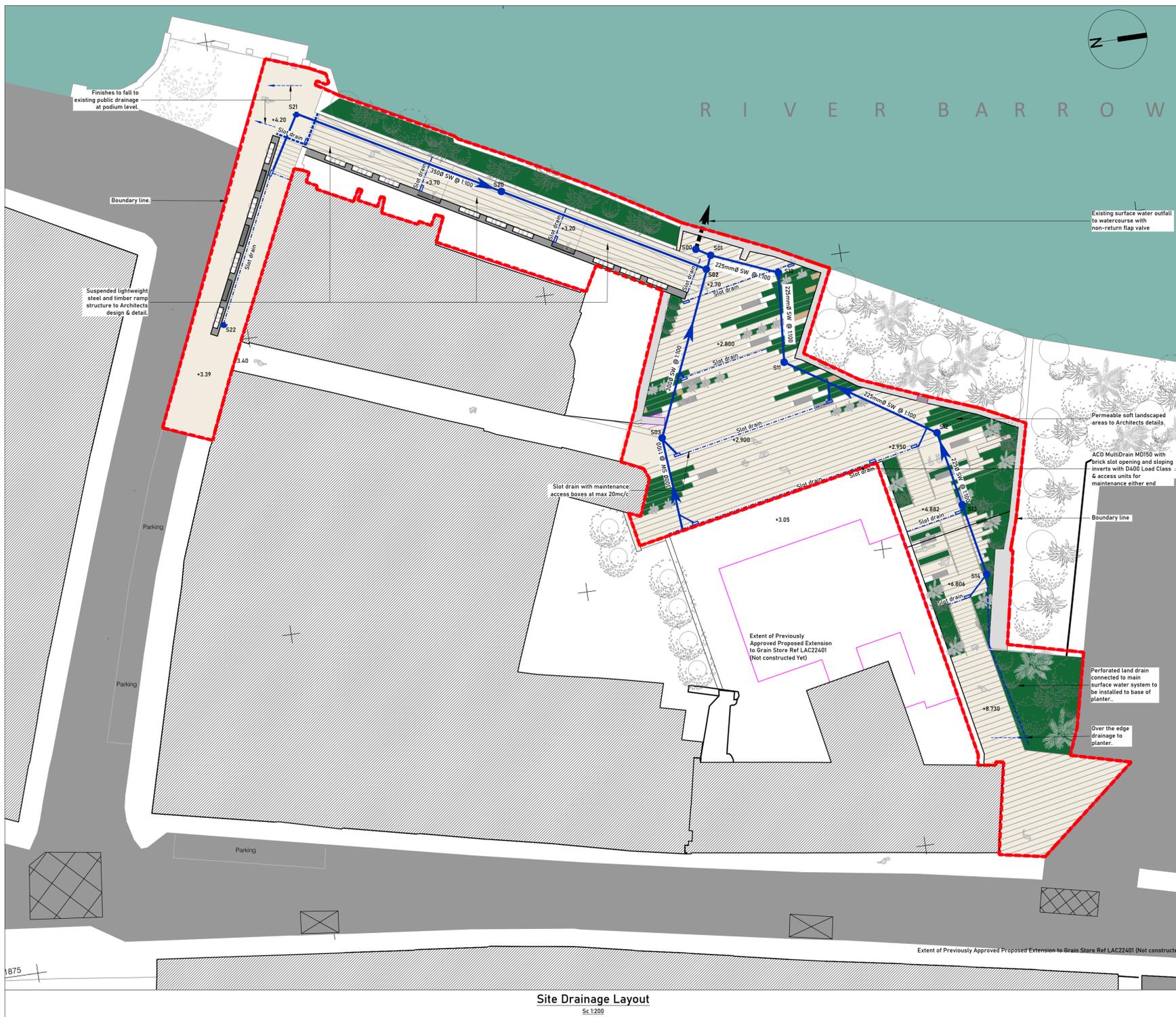
Permeable Areas: 0m²
Impermeable Areas 1116m²

Proposed:

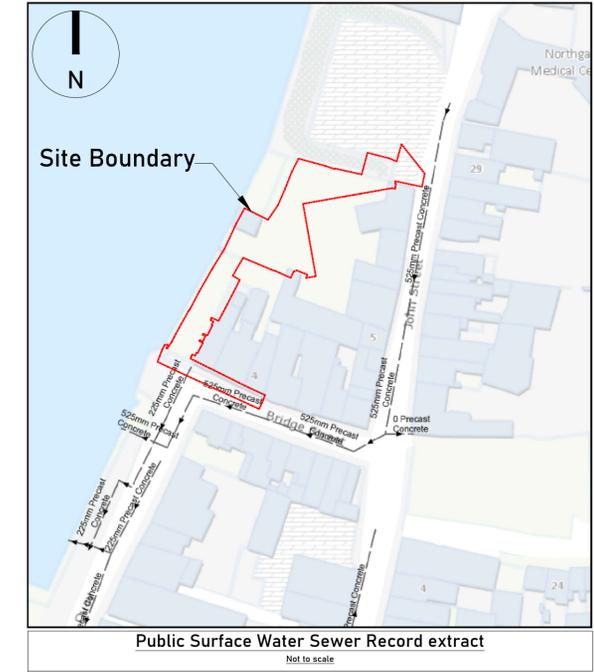
Permeable Areas: 220m²
Impermeable Areas 896m²

Appendix A

Site Drainage Layout



Legend	
Site Boundary	
Surface water drain	
Surface water linear drainage channel by ACO or equal approved	
Proposed building area	
Hard landscaped area - permeable	
Landscaped area - permeable	
Grass roof area	



Manhole Schedule			
Reference:	Cover Level:	Exit Invert Level:	Notes:
S00	2.65m	Existing	Outfall chamber
S01	2.65m	1.85m	
S02	2.70m	1.86m	
S03	2.90m	2.00m	
S10	2.70m	1.90m	
S11	2.85m	1.98m	
S12	2.95m	2.12m	
S13	4.88m	4.05m	Backdrop
S14	6.81m	5.90m	Backdrop
S20	3.45m	2.35m	Backdrop
S21	4.21m	2.40m	Backdrop
S22	3.39m	2.50m	Backdrop

REVISION	DATE	DRAWN	REMARK
P1	77/06/25	TC	Issued for planning

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS

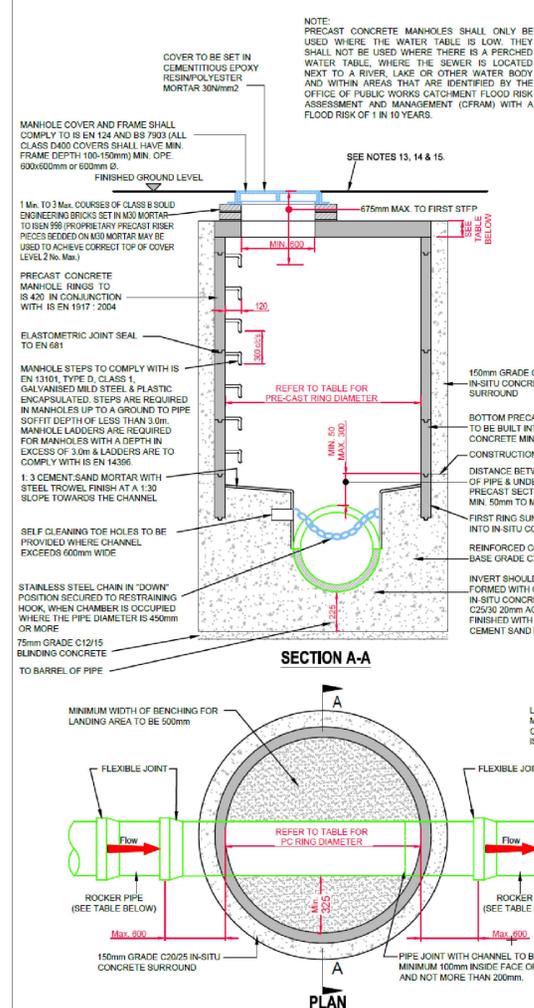
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- COVER TO REINFORCEMENT TO BE 35mm GENERALLY, 50mm FOR FOUNDATIONS.
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BRUNNER CONSULTING ENGINEERS	2 Scarlet Row Essex Street West Dublin 2 www.brunner.ie info@brunner.ie	Fossa Killarney Co. Kerry 1.01 478 9108
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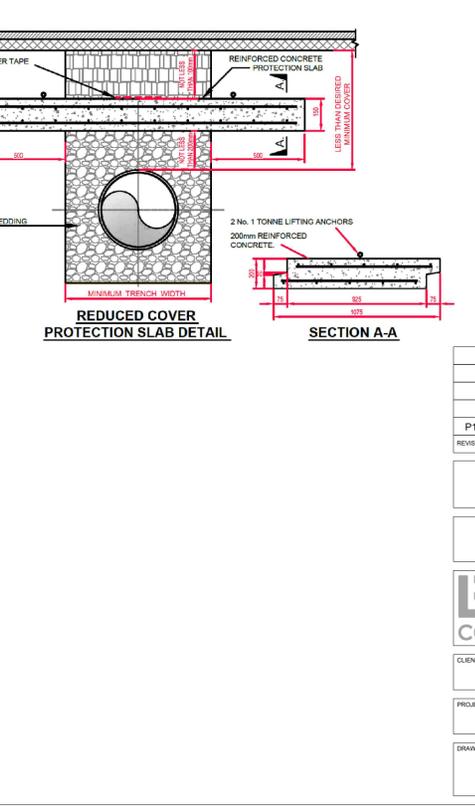
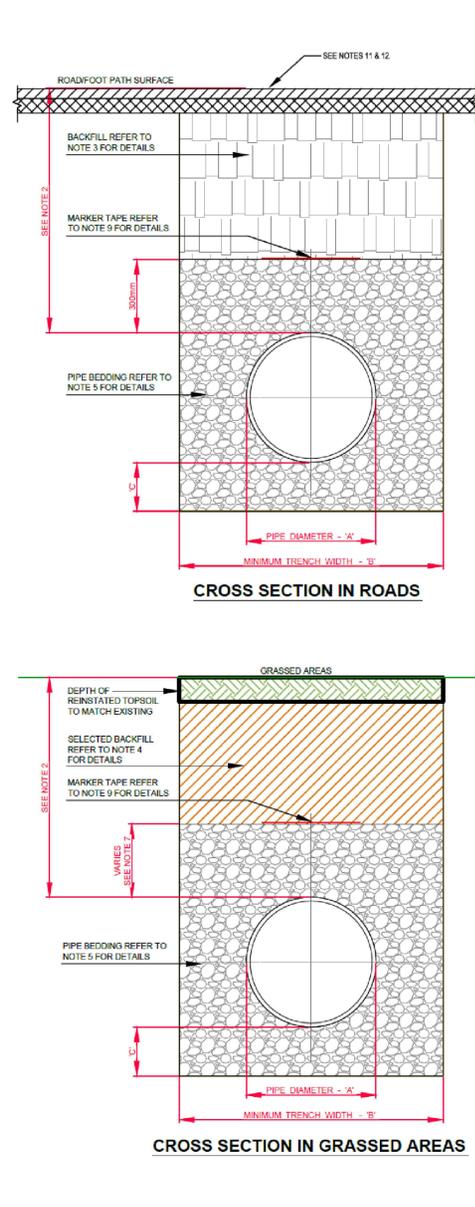
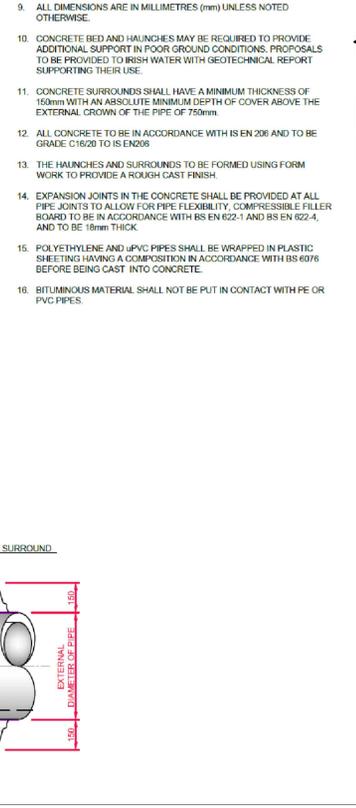
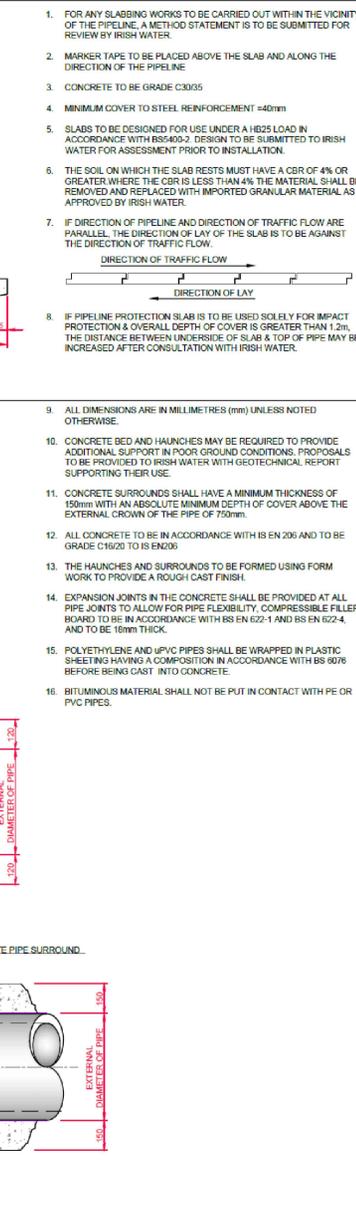
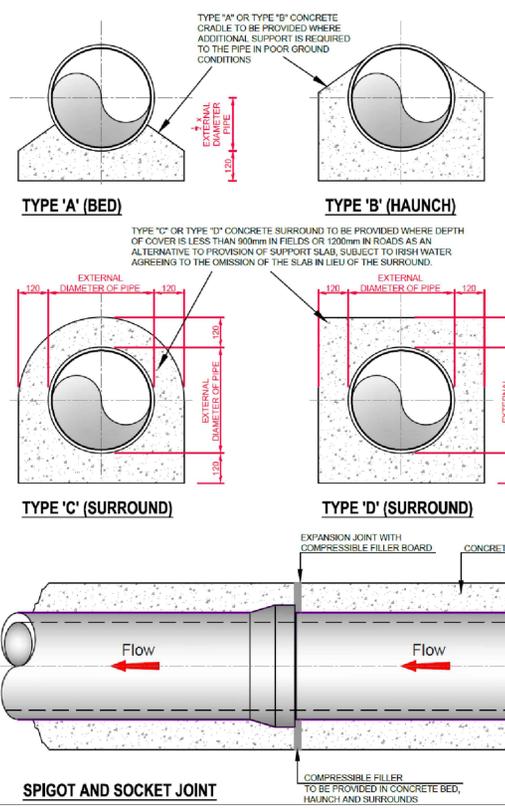
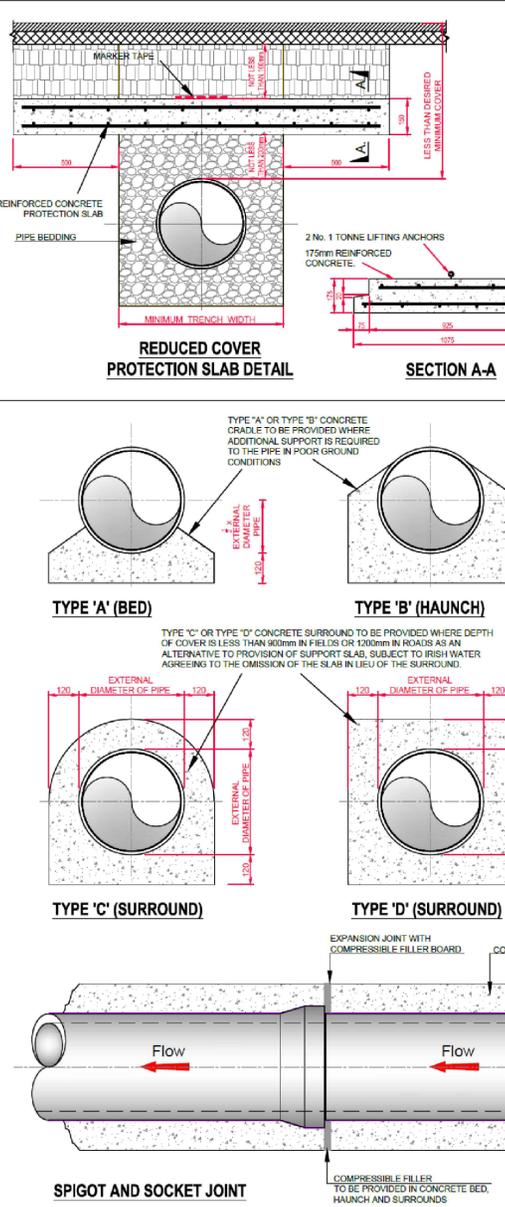
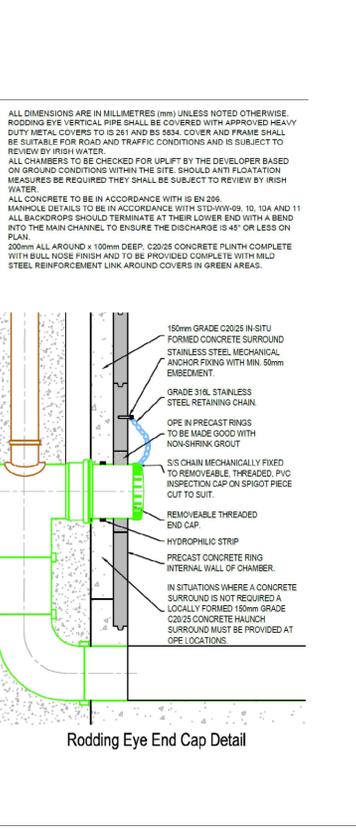
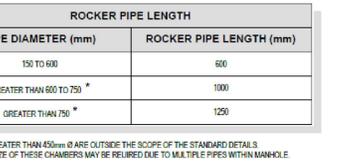
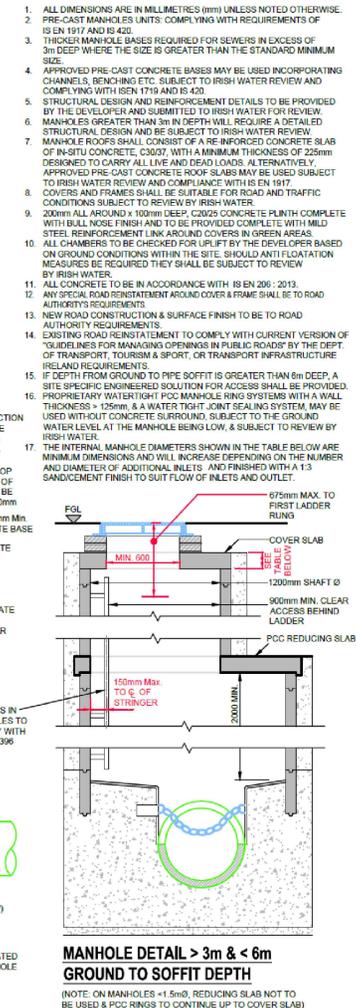
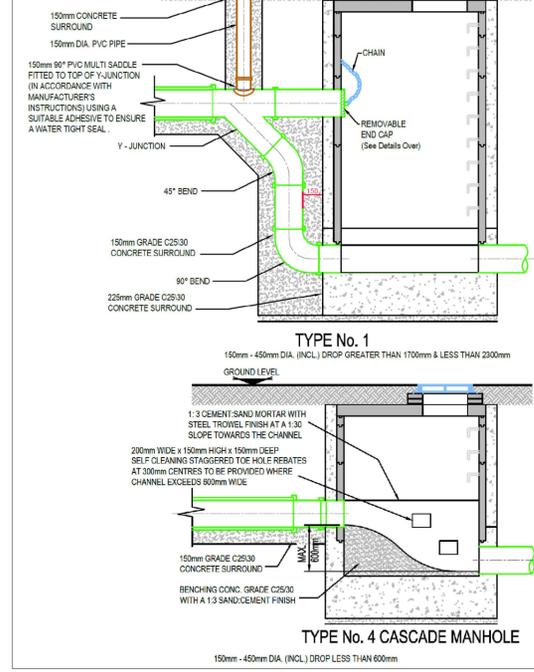
CLIENT: Wexford County Council	ARCHITECT: ODKM Architects	
PROJECT: Improvements to Public Realm to Bridge St. and lands to the rear and side of The Grain Store, John's St., New Ross, Wexford		
DRAWING: Site drainage layout	DRAWING NO: J08-P-10	SCALE: 1:200 @ A1
	DATE: June '25	REVISION: P1



DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)	MIN. IN-SITU THICKNESS (mm)
LESS THAN 375	1200	160	225
375 TO 450	1500	160	225
500 TO 150*	1500	170	225

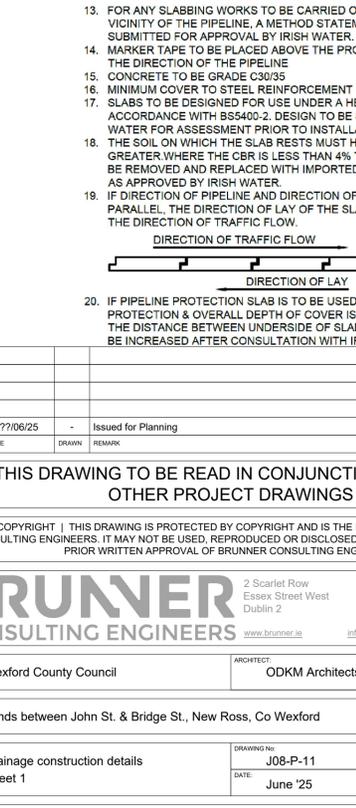
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 600	1000
GREATER THAN 600 TO 750*	500
GREATER THAN 750*	1200

* SEWERS GREATER THAN 450mm Ø ARE OUTSIDE THE SCOPE OF THE STANDARD DETAILS. MANHOLE SIZE OF THESE CHAMBERS MAY BE REQUIRED DUE TO MULTIPLE PIPES WITHIN MANHOLE



50	500
100	600
150-200	750
>200-350	900
>350-450	900

≤100	100
150-450	200



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

2. THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:

A) POSSIBILITIES OF VEHICULAR ACCESS - DEPTH NOT LESS THAN 0.5M (THIS WOULD NORMALLY RELATE TO DRAINS)

B) POSSIBILITIES OF THE NATURAL GROUND SURFACE BEING UNDESIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS)

C) DRIVEWAYS, FOOTWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.5M

D) OTHER ROADWAYS, HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.8M

E) AGRICULTURAL LAND AND PUBLIC OPEN SPACE - DEPTH NOT LESS THAN 0.5M

F) OTHER ROADWAYS, HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.8M

3. CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL AROUND THE SEWER MAIN (S) LOCATED IN ROADS, FOOTWAYS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 / 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. CLAUSE 808 IS TO BE USED WITHIN 500mm OF CEMENT BOUND MATERIALS, CONCRETE PAVEMENTS, CONCRETE STRUCTURES OR CONCRETE SUBGRADE. OTHERWISE CLAUSE 804 MAY BE USED. ALTERNATIVE MATERIAL TO THAT DESCRIBED ABOVE CLAUSE 804 OR CLAUSE 808 OF THE PIPE TRENCH WILL ONLY BE ALLOWED BY IRISH WATER WHERE THE CBR IS LESS THAN 4% THE MATERIAL SHALL BE DEVELOPMENT IS LOCATED, PROVIDES WRITTEN APPROVAL TO THE DEVELOPER TO USE SUCH ALTERNATIVE MATERIAL. EVIDENCE OF THIS WRITTEN APPROVAL TO PROVIDE THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. 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