3.5.21 and section 3.14.2 of the Irish Water Code Of Practice. Pipe to be in accordance with IS EN 12201 and polyethylene fittings including fusion joints and electrofusion joints shall be comply with the provisions of IS EN 12201 part 3

R148

R158

Proposed Kilcock Pumping Station will be delivered by IW

Former St. Patrick's Church - Protected Structure

Cemetery

Burial Ground

PROPOSED HYDROBRAKE MANHOLE TO RESTRICT PEAK FLOW TO 5.3 L/S FOR SUB-CATCHMENT AREA B FOR RETURN PERIODS UP TO AND INCLUDING THE 1 IN 100 YEAR PLUS 30% FOR CLIMATE CHANGE.

PROPOSED STORM ATTENUATION FACILITY#2 STORMTECH MC4500 O.S.A. TO PROVIDE 1035M³ FOR THE CRITICAL 1 IN 100 YEAR RETURN PERIOD PLUS 30% FOR CLIMATE CHANGE. 1050M³ STORAGE PROVIDED.

THIS AREA ENCLOSED WITHIN RED LINE (BURIAL GROUND AND FORMER PROTECTED STRUCTURE GROUNDS) DOES NOT FORM PART OF THIS APPLICATION

PROPOSED SURFACE WATER OUTFALL MANHOLE TO BE CONSTRUCTED TO KCC DRAINAGE DIVISION'S REQUIREMENTS. MANHOLE TO BE FITTED WITH AN INTERCEPTOR TRAP AND FRESH AIR INLET.NEW SURFACE WATER CONNECTION TO THE EXISTING SURFACE WATER SEWER, TO BE AGREED WITH KCC DRAINAGE DIVISION.

PROPOSED HYDROBRAKE MANHOLE TO RESTRICT PEAK FLOW TO 11.3 L/S FOR A CATCHMENT OF 3.25HA DISCHARGING AT QBAR RATE FOR RETURN PERIODS UP TO AND INCLUDING THE 1 IN 100 YEAR PLUS 30% FOR CLIMATE CHANGE.

PROPOSED STORM ATTENUATION FACILITY #3 STORMTECH MC3500 O.S.A. AND UPSTREAM PIPES TO PROVIDE 208M³ FOR THE CRITICAL 1 IN 100 YEAR RETURN PERIOD PLUS 30% FOR CLIMATE CHANGE. 212M³ STORAGE PROVIDED IN TANK.

PROPOSED HYDROBRAKE MANHOLE TO RESTRICT PEAK FLOW TO 2.8 L/S FOR SUB-CATCHMENT AREA A FOR RETURN PERIODS UP TO AND INCLUDING THE 1 IN 100 YEAR PLUS 30% FOR CLIMATE CHANGE.

PROPOSED STORM ATTENUATION FACILITY #1 STORMTECH MC4500 O.S.A. TO PROVIDE 521M³ FOR THE CRITICAL 1 IN 100 YEAR RETURN PERIOD PLUS 30% FOR CLIMATE CHANGE. 538M³ STORAGE PROVIDED.

Blind manhole for future connection. see section 1.23 of the irish water code of practice for wastewater

PROPOSED STORM ATTENUATION FACILITY #4 STORMTECH MC4500 O.S.A.AND UPSTREAM PIPES TO PROVIDE 1242M³ FOR THE CRITICAL 1 IN 100 YEAR RETURN PERIOD PLUS 30% FOR CLIMATE CHANGE. 1270M³ STORAGE PROVIDED IN TANK.

PROPOSED HYDROBRAKE MANHOLE TO RESTRICT PEAK FLOW TO 8.6 L/S FOR A CATCHMENT OF 3.24HA DISCHARGING AT QBAR RATE FOR RETURN PERIODS UP TO AND INCLUDING THE 1 IN 100 YEAR PLUS 30% FOR CLIMATE CHANGE.

S69
CL: 77.900
IL: 76.269
PROPOSED SURFACE WATER OUTFALL MANHOLE TO BE CONSTRUCTED TO KCC DRAINAGE DIVISION'S REQUIREMENTS. MANHOLE TO BE FITTED WITH AN INTERCEPTOR TRAP AND FRESH AIR INLET.

EX.SMH2
CL: 78.09
IL: 74.89 (TBC)
NEW CONNECTION TO EXISTING 1200Ø SURFACE WATER SEWER. NEW SURFACE WATER CONNECTION TO THE EXISTING SURFACE WATER SEWER, TO BE AGREED WITH KCC DRAINAGE DIVISION.

UNDER CONSTRUCTION
ADJOINING APPROVED SHD APPLICATION (Ref.:ABP-306826-20)

Boycetown Court

DRAINAGE NOTES

1. All levels are to malin head ordnance datum
2. All works in confined spaces shall be carried out in strict accordance with the provisions on "Safe Work" "In Confined Spaces" Code of Practice for working in confined spaces, published by the Health & Safety Authority.
3. All site development works shall be carried out in strict accordance with the construction drawings.
4. All drainage works shall be carried out in strict accordance with the requirements of the Local Authority, TII Publications Series 500, The Greater Dublin Regional Code of Practice for Drainage Works and the Irish Water Code of Practice and Standard Details.
5. This drawing should be read in conjunction with all other contract documentation, including drawings and specifications.
6. The Contractor is solely responsible for locating, protecting and maintaining all existing services within the site boundary and in the areas affected by the works. the Engineer has provided information on known services but gives no guarantee that this information provided by the third parties, is correct or that these are the only services on the site.
7. Suitable short lengths of pipe or rocker pipes shall be installed to provide a flexible joint within 1000mm of the outer face of the manhole on all sewers and branches.
8. Where rock is met in trenches it shall be excavated and trimmed to 300mm below the underside of pipeline.
9. Granular material 5mm – 20mm nominal size graded aggregate (to comply with table 1 of B5) to be used for bedding, haunching and surround to pipes where specified.
10. Concrete mix C16/20 to be used for bedding, haunching and surround where specified.
11. Where rigid pipes with flexible joints are used with concrete beds for drains and watermains, vertical movement joints shall be provided in the beds at max intervals of 5.0m and aligned with face of pipe socket. joints to be minimum 12m wide and filled with flexcell or similar approved material.
12. Surface water and foul drains shall be surrounded by 150 thickness of C16/20 concrete if cover to pipe is less than:
    - 1.2m in roads and driveways
    - 0.9m in open spaces and paths not near carriageways.
13. Foul manholes located in grassed areas to be surrounded by a concrete plinth 200mm all round and 100mm deep formed with C20/25 20mm concrete
14. All pipe runs shall be laid in straight lines both vertically and horizontally to the specified gradients between manholes. no deviations or bends shall be permitted.
15. Refer to "The Greater Dublin Regional Code of Practice for Drainage Works" for details of surface water manhole standards and Irish Water Code of Practice and Standard Details for details of foul manhole standards..
16. The Contractor shall carry out a CCTV survey report of the completed storm & foul network to the satisfaction of the local authority and report to be issued on practical completion.
17. The Local Authority must be notified at least 10 working days in advance of commencement of works.
18. Prior to commencement of construction outfall levels for the foul and surface water manholes shall be verified on site.
19. Proposed foul sewers will be either concrete, thermostatic structured walled pipes or unplasticised pvc in accordance with section 3.13 of the Irish Water Wastewater Code of Practice. proposed storm drains to be in accordance with the requirements of Kildare Co. Co.
20. Typical service layout distances (horizontal and vertical) as per Irish Water Detail STD-WW-05
21. The external face of proposed manhole chambers in public roads will be a minimum of 0.5m from the proposed public road kerb line in accordance with Section 1.23 of the Irish Water Wastewater Code of Practice
22. Inspection chambers to each house/unit to be in accordance with Irish Water Detail STD-WW-02 and STD-WW-03.
23. Appropriate measures adhering to Section 3.21 of the Irish Water Wastewater Code of Practice will be provided to drainage infrastructure in close proximity to planting to prevent any damage to infrastructure via root ingress or negative impacts to planting such as damage of tree roots. Fusion joints to polyethylene pipes and root protection barriers shall be provided at locations where root ingress is expected.

PIPE MATERIALS

100mmØ – 225mmØ to be uPVC SN8 to IS EN 1401 'UD'
300mmØ – 600mmØ to be concrete to IS EN 1916

LEGEND:

- EXISTING FOUL SEWER — EX. FMH
- PROPOSED FOUL SEWER — FMH1
- PROPOSED FOUL SEWER BY IRISH WATER
- PROPOSED IRISH WATER FOUL RISING MAIN
- PROPOSED INSPECTION CHAMBER — IC
- PROPOSED STORM SEWERS — SWMH1
- PROPOSED ROAD GULLY — gt
- INDICATES FOUL MANHOLES LOCATED IN GRASSED/PLANTED AREAS TO BE SURROUNDED BY A CONCRETE PLINTH, 200mm ALL ROUND AND 100mm DEEP FORMED WITH C20/25 CONCRETE, 20mm AGGREGATE SIZE, BEDDED IN CLAUSE 804 MATERIAL. — FMH1
- INDICATES CONCRETE SURROUND C16/C20

S037

PLANNING DRAWING.
NOT FOR CONSTRUCTION.
ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM.
THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

NOTES
1. For setting out refer to Architect's drawings.
2. This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
3. DO NOT SCALE THIS DRAWING. Use figured dimensions only.
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Rev. No.	Date	REVISION NOTE	Dm. By	Chkd. By
P1	14.05.2021	UPDATED DETAILS FOR IRISH WATER	DF	OS
P2	15.07.2022	ISSUED FOR PLANNING	JS	OS
P3	05.08.2022	LAYOUT REVISED - ISSUED TO IRISH WATER	DD	RFM
P4	30.08.2022	REVISED TO ADDRESS COMMENTS FROM IRISH WATER	DD	RFM
P5	05.09.2022	REVISED TO ADDRESS COMMENTS FROM IRISH WATER	DD	RFM

Architect	Paul Byrne Architects
Project	Kilcock West SHD 2 Boycetown, Kilcock, Co. Kildare.
Title	Proposed Drainage Layout Sheet 1 of 2
Dwg. No.	S037-CSC-XX-XX-DR-C-0105
Date	FEB 2021
Drn by	DF
Chkd by	OS
Aprvd by	OS
Scale	1:500 @ A0
Revision	P5

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Energy I.S. EN ISO 50001:2011
Health & Safety OHSAS 18001:2007