



CONTOURS DENOTE EXISTING GROUND LEVELS ONLY!!

PERIMETER DRAINAGE FOR ALL PROPOSED AND ALTERATIONS TO PERIMETER DRAINAGE REFER TO ARCHITECT DETAILS

THE CONTRACTOR IS TO NOTIFY THE ENGINEER TO WITNESS THE INSTALLATION OF ALL AIR TESTS AND OTHER IRISH WATER QA AS REQUIRED UNDER THE IRISH WATER QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL, AS PER CURRENT VERSION ON IRISH WATERS WEBSITE. IT IS A REQUIREMENT OF THE MAIN CONTRACTOR TO AGREE THE REQUIRED QA WITH THE IW FIELD INSPECTORS, RETAIN ALL THE QA DOCUMENTS ON SITE AND REPAIR ANY DEFECTS.

NOTE  
LOCATION OF EXISTING SERVICES IS INDICATIVE ONLY AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.  
ALL EXISTING LEVELS TO BE CHECKED ON SITE & CONFIRMED WITH ENGINEER BEFORE COMMENCEMENT OF WORKS.

CROCON GRADING PLAN TO BE REVIEWED IN CONJUNCTION WITH THE PROPOSED DRAINAGE SYSTEM AND MANUFACTURER TO CONFIRM ACCEPTANCE OF SAME PRIOR TO INSTALLATION OF SYSTEM

FINAL DISCHARGE OPTION AS PER IRISH WATER CONFIRMATION OF FEASIBILITY (COF) AND STATEMENT OF DESIGN ACCEPTANCE. CONNECTION TO BE CONSTRUCTED BY USICE EIREANN AS EXEMPTED DEVELOPMENT IN ACCORDANCE WITH SCHEDULE 2, PART 1, CLASS 58 OF PLANNING & DEVELOPMENT REGULATIONS, 2001

PROPOSED PUMP STATION IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS. REFER TO INFRASTRUCTURE REPORT FOR COF DETAILS

50m RADIUS

HARD STANDING ROAD

PROPOSED FOUL SEWER GRAVITY MAIN TO PUMP STATION

100mm Ø PROPOSED FOUL SEWER RISING MAIN TO EXISTING HEADER MANHOLE

**IRISH WATER STANDARD DETAILS AND CODE PRACTICE:**

ALL OF THE SITE DRAINAGE WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) "WASTEWATER INFRASTRUCTURE STANDARD DETAILS" AND "CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE".

- STANDARD DETAILS FOR WASTEWATER NETWORKS:
- STD-WW-01 WASTEWATER SERVICE CONNECTION RESPONSIBILITY
  - STD-WW-02 TYPICAL LAYOUT FOR SEWER WITHIN NEW DEVELOPMENTS
  - STD-WW-03 DRAIN & SERVICE CONNECTION PIPEWORK
  - STD-WW-04 TYPICAL SEWER / SERVICE CONNECTION PIPE
  - STD-WW-06 EXISTING PLANTING
  - STD-WW-06A RESTRICTIONS ON NEW PLANTING ADJACENT TO SEWERS
  - STD-WW-07 TRENCH BACKFILL & BEDDING
  - STD-WW-08 CONCRETE BED, HAUNCH & SURROUNDING TO WASTEWATER PIPES
  - STD-WW-10 PRECAST CONCRETE MANHOLE
  - STD-WW-12 BACKDROP MANHOLES
  - STD-WW-13 PRIVATE SIDE INSPECTION CHAMBER

FOR REINFORCED IN SITU ITEMS SUCH AS MANHOLES ETC, ALLOW H12 REBAR@200c/c BOTH FACES. NOTE THAT PRECAST OPTIONS ARE ALSO SPECIFIED.

- PIPE MATERIALS:
- SERVICE CONNECTIONS FROM DWELLING TO BE 100mm Ø UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF IW CODE PRACTICE.
  - SITE SEWER TO BE THERMOPLASTIC STRUCTURED WALL PIPES IN ACCORDANCE WITH SECTION 3.13 OF THE IW CODE OF PRACTICE.
  - RISING MAIN TO BE POLYETHYLENE IN ACCORDANCE WITH SECTION 3.14 OF WASTEWATER CODE OF PRACTICE.

- TESTING:
- SITE SEWER AND MANHOLES TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE
  - CCTV AND MANHOLE CONDITION SURVEYS TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 19 OF IW CODE OF PRACTICE IN ADVANCE OF THE DEFECTS LIABILITY PERIOD.
- NOTE: ALL MANHOLE COVER LEVELS TO BE CHECKED IN SITU TO ENSURE THAT THEY ARE LEVEL WITH THE SURROUNDING FINISHED SURFACES.

**FOUL & SURFACE WATER NOTES:**

- FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- FOR UNDER FLOOR DRAINAGE ARRANGEMENT PLEASE REFER TO ARCHITECT'S DRAWINGS.
- DO NOT SCALE THIS DRAWING. USE FIGURE DIMENSIONS ONLY.
- ALL SURFACE WATER SEWERS SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS" AS PUBLISHED BY DEPARTMENT OF ENVIRONMENT AND LOCAL GOVERNMENT AND IRISH WATER STANDARD DETAILS FOR WASTE WATER INFRASTRUCTURE.
- ALL FOUL SEWER WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE & IRISH WATERS WASTE WATER INFRASTRUCTURE STANDARD DETAILS
- GROUND LEVELS, COVER LEVELS AND INVERT LEVELS ARE APPROXIMATE ONLY. EXACT LEVELS TO BE CONFIRMED ON SITE.
- THE DEVELOPMENT SHALL BE CONNECTED TO THE PUBLIC SEWER TO THE SATISFACTION OF THE LOCAL AUTHORITY AND IRISH WATER. THE MINIMUM COVER TO ANY SEWER PIPE SHALL BE 1.2m IN ROAD AND 0.9m IN OPEN SPACES AND FOOTPATHS NOT ADJACENT TO CARRIAGEWAYS. WHERE IT IS NOT POSSIBLE TO ACHIEVE THESE MINIMUM COVERS, PIPES SHALL BE BEDDED AND SURROUNDED IN CONCRETE 150thk.
- THE SEWERS AND MANHOLES SHALL BE LAID AND TESTED TO THE SATISFACTION OF IRISH WATER AND THE LOCAL AUTHORITY. LAYING, BEDDING AND BACK FILLING OF SEWERS SHALL BE IN ACCORDANCE WITH THE IRISH WATER STANDARD DETAILS.
- ALL SERVICE TRENCHES IN ROADS SHALL BE BACK FILLED AND PROPERLY COMPACTED WITH GRANULAR MATERIAL IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS FOR WASTEWATER INFRASTRUCTURE.
- GULLIES A) ALL GULLIES AND MANHOLES LOCATED IN THE PUBLIC ROAD SHALL BE LOCKING TYPE. GULLIES TO BE LOCATED EVERY 45m OR 200m<sup>2</sup> OF HARD STANDING. B) DOUBLE GULLIES TO BE PROVIDED AT ALL ROAD SAG CURVES AND CUL DE SACS WHERE INDICATED. SEPARATE CONNECTIONS SHALL BE PROVIDED FOR EACH GULLY.

**FOUL SEWER LAYOUT**  
SCALE 1:500

**LEGEND**

- PRIVATE BOUNDARIES
- ADJACENT BOUNDARIES OWNED BY APPLICANT
- DENOTES FOUL WATER SEWER WITH PIPE SIZE, MANHOLE REF & INVERT LEVEL. HDPE PIPE WITH STIFFNESS CLASS SN8 TO BE USED FOR ALL FOUL SEWERS IN ACCORDANCE WITH SECTION 3.13 OF IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE
- PROPOSED FOUL RISING MAIN
- EXISTING FOUL SEWER
- DENOTES PRIVATE SIDE INSPECTION CHAMBER IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-WW-13 BACKDROP TO BE PROVIDED AT ALL CHAMBERS TO AVOID CLASH WITH EIR & ESB.

THIS DRAWING IS COPYRIGHT © CroCon Engineers Ltd. All dimensions are in mm except where indicated. Figure dimensions take precedence over scaled measurements. All dimensions to be checked on site prior to construction or installation. All Regulations and Codes of Practice are the responsibility of the issuing authority withstanding.

Regulations within their trade, where this drawing is open to public inspection pursuant to a statutory requirement or in a statutory register, copyright is subject to the requirements of Section 54 of the Copyright and Related Rights Act 2000.

Drawn By	Checked By	Approved By	Date	Scale	Project Code	Approval Code	Rev.	Stage
AH	CC	CC	19/09/25	1/500 @A1	P03	S	0	Planning

**CroCon Engineers Ltd.**  
Consulting Engineers  
Unit 1, Building 6500, Avenue 6500,  
Cork Airport Business Park, Cork  
E: info@crocon.ie Tel: (021) 431 0769

Project: 22240 - CRO - X - XXX - DR - CE - 03202  
Client: Roscspring Properties Ltd.  
Project: Baneshane, Middleton LRD  
Title: Overall Foul Sewer Layout 1:1000

REVISION	DATE	BY	DETAILS
0	09/25	AH	Site Layout revised