

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEER'S 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.

ALL DEMOLITION WORKS TO BE IN ACCORDANCE WITH BS 6187: 2011.

ALL CONTRACTORS OR SUB-CONTRACTORS RESPONSIBLE FOR SPECIALIST DESIGN MUST PROVIDE PROFESSIONAL INDEMNITY INSURANCES, ANCILLARY CERTIFICATES FOR DESIGN AND ANCILLARY CERTIFICATES FOR INSPECTION IN ACCORDANCE WITH BCAR 2014.

WATER MAIN

WATERMAIN PIPES TO BE HDPE TYPE PE-80 MATERIAL WITH SDR-11 OR SDR-17 RATING AND SHALL COMPLY WITH IS EN 12201 Part 1 and Part 2 AS PER IRISH WATER'S CODE OF PRACTICE SECTION 3.9.

WATERMAIN PIPE SIZE TO BE 200mm (INTERNAL DIAMETER).

MINIMUM WATERMAIN COVER OF 900mm. MINIMUM SERVICE PIPE COVER OF 600mm.

MINIMUM TRENCH WIDTH TO BE 500mm.

CONCRETE (C20/25) ANCHOR BLOCKS IN ACCORDANCE WITH IS EN 206, TO BE PROVIDED AT DEAD ENDS, TEES, BENDS-11.5°, AT END CAPS AND BOTH SIDES OF SLUICE CHAMBERS.

BULK FLOW METER SHALL BE INSTALLED AT THE ENTRANCE TO THE DEVELOPMENT AND ON ALL SERVICE CONNECTIONS AS PER SECTION 3.15 OF IRISH WATER'S CODE OF PRACTICE FOR WATER INFRASTRUCTURE AND DETAILED AS PER STD-W-26 IRISH WATER STANDARD DETAILS.

SLUICE VALVES SHALL BE DOUBLE FLANGED WITH DUCTILE IRON RESILIENT SEAL GATE VALVES, SUITABLE FOR USE IN WATER MAINS. THEY SHALL COMPLY WITH THE REQUIREMENTS OF BS 5163, PART 1 AND 2 AND IS EN 1074, PART 1 AND PART 2 AS PER IRISH WATER'S CODE OF PRACTICE.

HYDRANTS SHALL BE DOUBLE FLANGED DRILLED TO PN 16. THEY SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 14339, IS EN 1074: PART 6 AND BS 750 AND COMPLY WITH IRISH WATER'S CODE OF PRACTICE. HYDRANTS TO BE LOCATED WITHIN 46m OF BUILDINGS. HYDRANT OUTLET TO BE MAX 350mm BELOW GROUND LEVEL.

ALL PIPES TO BE TESTED, FLUSHED OUT AND STERILIZED TO THE APPROVAL OF BOTH IRISH WATER AND LOHAN AND DONNELLY.

WATER MAINS SHALL NOT BE LOCATED DIRECTLY UNDER TREES. ALL TREES PLANTED WITHIN THE DISTANCES SPECIFIED IN STD-W-12A IRISH WATER STANDARD DETAILS SHALL HAVE APPROPRIATE ROOT PROTECTION PROVIDED.

WHERE BOOSTER SYSTEMS ARE SPECIFIED THEY SHALL BE TO IRISH WATER'S CODE OF PRACTICE AS PER SECTION 3.13. A CONNECTION VIA AN UNRESTRICTED AIR-GAP DEVICE (AA TYPE DEVICE IS EN 1717) TO PREVENT THE RISK OF BACKFLOW CONTAMINATION FROM THE INTERNAL WATER DISTRIBUTION SYSTEM TO IRISH WATER'S NETWORK SHALL BE INSTALLED AS PER IRISH WATER'S CODE OF PRACTICE, SECTION 3.13.

AIR VALVES SHALL BE OF DOUBLE AIR VALVE TYPE WITH ISOLATING VALVE IN ACCORDANCE WITH THE REQUIREMENTS OF IS EN 1074: PART 4. AIR VALVES SHALL BE OF DUCTILE IRON TO IS EN 1563, WITH A MINIMUM TENSILE STRENGTH 420 N/MM2 AND SHALL HAVE FLANGED INLETS, PN16 RATED, AS PER SECTION 3.16.5 IRISH WATER'S CODE OF PRACTICE.

SCOUR VALVES SHALL BE DOUBLE FLANGED WITH DUCTILE IRON RESILIENT SEAL GATE VALVES. THEY SHALL COMPLY WITH THE REQUIREMENTS OF BS 5163, PART 1 AND 2 AND IS EN 1074, PART 1 AND PART 2, AND THEY SHALL HAVE A CE MARKING IN ACCORDANCE WITH THE EU CONSTRUCTION PRODUCTS REGULATIONS (NO. 305/2011 - CPR) AND ANY OTHER RELEVANT DIRECTIVES, AS PER SECTION 3.16.4 IRISH WATER'S CODE OF PRACTICE.

DENOTES 46m RADIUS

DENOTES 6m RADIUS

PROPOSED SW MANHOLE TO PROVIDE OUTFALL FOR SCOUR VALVE. REFER TO DWG No. "1C01" FOR SW SEWER LAYOUT

WATERMAIN LAYOUT PLAN

SCALE 1:250

WATER MAIN LEGEND

200mm (ID) MDPE (PE-80) PIPE NEW W/M
SLUICE VALVE
METER CHAMBER AS PER STD-W-26
HYDRANT
AIR VALVE
SCOUR VALVE
WASHOUT HYDRANT
150mm MDPE (PE-80 RATING)
EXISTING IRISH WATER MAINS
EXISTING HYDRANT
EXISTING GL CONTOUR

PAVING LEGEND

COMMERCIAL/RESIDENTIAL SPACE
GRASS
PERMEABLE PAVING (NON-TANKED)
RAINGARDEN
HARSTANDING/NON PERMEABLE SURFACE
GREEN/BLUE ROOF
PERMEABLE PAVING (TANKED)

MANHOLE NOTES:

MANHOLES WHICH ARE LOCATED IN SOFT LANDSCAPED/GRASSED AREAS HAVE TO BE SURROUNDED BY A CONCRETE PLINTH, 200mm ALL ROUND AND 100mm DEEP FORMED WITH C20/C25 CONCRETE, 20mm AGGREGATE SIZE, BEDDED IN CLAUSE 804 MATERIAL.

FLOW METER & TELEMETRY NOTES:

BULK FLOW METER AND TELEMETRY SYSTEM TO BE IN ACCORDANCE WITH IRISH WATER DETAIL STD-W-26A AND SECTION 3.15.3 OF THE WATER CODE OF PRACTICE. TELEMETRY SYSTEM & BULK FLOW METER TO BE SELECTED, SUPPLIED & INSTALLED BY IRISH WATER AT THE CUSTOMER'S COST.

HYDRANTS, AIR VALVES, SLUICE VALVES & SCOUR VALVES:

ALL AIR VALVES, HYDRANTS, SLUICE VALVES, SCOUR VALVES & SCOUR VALVE CHAMBERS SHALL BE BUILT IN ACCORDANCE TO SECTION 3.18 OF IRISH WATER CODE OF PRACTICE DOCUMENT (IW-CDS-5020-03)

PROPOSED/EXISTING PLANTING NOTES:

WATERMAIN - ALL SERVICES TO HAVE SUFFICIENT CLEARANCE AWAY FROM EXISTING/NEW PLANTING AND APPROPRIATE PREVENTION MEASURES IN PLACE AS PER IRISH WATER RECOMMENDATIONS SET OUT IN THE "WATER INFRASTRUCTURE STANDARD DETAILS", DRAWINGS "STD-W-12 & STD-W-12A".

FOUL WATER - ALL FOUL SEWERS TO HAVE SUFFICIENT CLEARANCE AWAY FROM EXISTING/NEW PLANTING AND APPROPRIATE PREVENTION MEASURES IN PLACE AS PER IRISH WATER RECOMMENDATIONS SET OUT IN THE "WASTEWATER INFRASTRUCTURE STANDARD DETAILS", DRAWINGS "STD-WW-06 & STD-WW-06A".



BLUE ROOF LAYOUT PLAN

SCALE 1:500

P2	22/12/2025	S.R.H.	G.P.	Issued for planning.	
P	21/08/2025	S.R.H.	G.P.	Issued for planning.	
Rev	Date	Dm	Chk'd	Description	



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Project:	Cabra PBSA
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Project No.	24227
Drp. No.	1C02

Drawing:	Watermain Layout Plan
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Scale	@A1
Date	Aug. 25
Drawn	S.R.H.
Rev.	P2

Model Reference:	24227-LDE-ZZ-ZZ-M2-C-0001
Drawing Reference:	24227-LDE-ZZ-ZZ-DR-C-1C02

Model Rev:	P01
Suitability:	S1