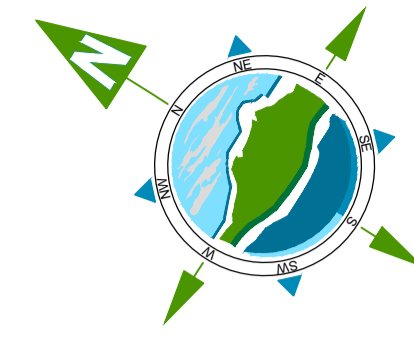


THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM



Minimum of 20 l/s flow is required from Hydrants for fire fighting purposes for multi-occupied housing development with units of more than two floors as per "National Guidance Document on the Provision of Water for firefighting - Water UK 3rd Edition".

Hydrants to be tested on completion of watermain. If 20l/s is achieved, static storage tanks may not be required subject to agreement with the local authority. Otherwise, 72m³ of static water storage tank providing 1hr storage volume at 20 l/s or approved alternative to be provided.

Ø80mm connection to site watermain to provide for top-up and filling of static water storage tank above top of water level to ensure an air gap exists and shut off valve

Scour valve and wash-out chamber in accordance with IW-STD-W-30A connected to storm manhole

Marker plate for static water tank and indicative location of draw-off point for fire-fighting

Refer to Landscape Drawings for Landscape Details

Below-ground static fresh water storage tank with minimum capacity 72m³.
 Tank entrance to be latched and lockable with a grill to prevent unauthorised access.
 Block-out of 150mm in entrance grill to allow for access or fire hose.
 Tank to be maintained by Management Company and water to be cleaned.

- LEGEND:**
- Site Boundary
 - Proposed Ø150mm PE100 SDR 17 Water Supply Pipe
 - Proposed Ø100mm PE100 SDR 17 Water Supply Pipe
 - Proposed Ø25mm PE80 SDR 17 House Connection and Water Meter
 - ⊕ Proposed Watermain Fire Hydrant
 - ⊕ Proposed Bulk Meter
 - ⊕ Proposed Air Valve
 - ⊕ Proposed Scour Valve & Washout Chamber
 - TB Proposed Thrust Block
 - SV Proposed Sluice Valve
 - SV SV SV Proposed 3-Way Sluice Valve Arrangement (Ductile Iron Pipework Between Valves) as per IW-CDS-5020-01
 - ⊕ Proposed Below Ground Static Water Storage Tank
 - Ø80mm Connection to Storage Tank
 - Ductile Iron Valve Connection
 - ⬆ Proposed Site Levels
 - ⬆ Proposed Waste Water Pump Station

- NOTES:**
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
 2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

Rev	Date	Description	By	Chkd.
P01	08.07.2022	Issued For Planning	EC	BH

Client:
Lock House Developments Ltd.

Project:
Strategic Housing Development at Bothar an Choiste, Castlegar, Galway.

Title:
Proposed Watermain Layout

Scale @ A1: 1:500 / @A3 1:1000
 Prepared by: EC
 Checked: BH
 Date: July 2022
 Project Director: Brian Carroll
 Drawing Status: Planning

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Drawing No.: 10750-2101 P01

WATERMAIN NOTES:

ALL WATERMAIN INFRASTRUCTURE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER (IW) CODE OF PRACTICE (COP) FOR WATER IW-CDS-5020-03 AND STANDARD DETAILS IW-CDS-5020-01.

IW SOP AND STANDARD DETAILS CAN BE FOUND AT <https://www.water.ie/connections/developer-services/>

WATERMAIN TO BE CONSTRUCTED IN LINE WITH REQUIREMENTS OF IRISH WATER CONNECTION AGREEMENT.

CONNECTION TO EXISTING 250mm @uPVC WATERMAIN TO COMPLY WITH STANDARD DETAIL IW-STD-W-05 AND THE REQUIREMENTS OF IW COP IW-CDS-5020-01.

WATERMAIN MATERIAL SHALL COMPLY WITH SECTIONS 3.3 AND 3.9 OF IRISH WATER COP FOR WATER INFRASTRUCTURE IW-CDS-5020-03.

THREE-WAY SLUICE VALVE ARRANGEMENT TO BE CONSTRUCTED WITH DUCTILE IRON AND IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL DRAWINGS STD-W-04 TO STD-W-10.

INTERCONNECTING PIPEWORK BETWEEN VALVES AND HYDRANTS TO BE DUCTILE IRON FITTINGS AS PER RELEVANT IW STANDARD DETAILS.

WATERMAIN LOOPS TO INCLUDE A MINIMUM OF FOUR HOUSE CONNECTIONS AND A FIRE HYDRANT.

WATERMANS TO BE A MINIMUM 750mm FROM KERBS AND 300mm FROM ANY OTHER SERVICE. TYPICAL SERVICE LAYOUT DISTANCES (HORIZONTALLY AND VERTICALLY) AS PER STANDARD DETAIL STD-W-11.

THRUST BLOCKS TO WATERMANS AS PER IW STANDARD DETAIL DRAWING STD-W-28.

LOCATION OF VALVES, MANHOLES, HYDRANTS ARE SHOWN INDICATIVE ONLY ON THIS DRAWING. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE POSITIONS ON THE GROUND ARE IN ACCORDANCE WITH IW-CDS-5020-03.

REFER TO SECTION 3.26 OF IW COP IW-CDS-5020-03 AND IW STANDARD DRAWINGS STD-W-12, STD-W-12A, STD-WW-06, STD-WW-06A & FOR PLANTING RESTRICTIONS NEAR WATER INFRASTRUCTURE. ROOT PROTECTION TO BE RefRoot 2000 OR SIMILAR.

ALL WATERMANS TO BE A MINIMUM OF 3.0m FROM SMALL SIZED AMENITY TREES AND 6.0m FROM DECIDUOUS TREES (STD-W-12A).

ALL WATERMANS TO BE KEPT 1.5m TO 2.0m FROM TREES WITH ROOT PROTECTION. TREES TO BE NO GREATER THAN MEDIUM SIZE E.G. ASH, HOLLY, WHITEBEAM OR SIMILAR.

VALVE AND CHAMBER COVERS LOCATED IN GRASSED AREAS TO HAVE 200mm ALL ROUND CONCRETE PLINTH AND 100mm DEEP FORMED WITH C20/25 CONCRETE, 20mm AGGREGATE, BEDDED IN CLAUSE B04 MATERIAL. THE PLINTH SHALL BE COMPLETE WITH BULL-NOSED FINISH TO ITS PERIMETER AND BE PROVIDED WITH A MILD STEEL REINFORCEMENT LINK.

SCOUR VALVES TO BE LOCATED AT LOW POINTS. A NON-RETURN VALVE IS REQUIRED AT SCOUR VALVE LOCATIONS TO PREVENT BACKFLOW TO THE WATER SUPPLY NETWORK SYSTEM AND CONNECTION TO BE AGREED WITH THE LOCAL AUTHORITY. REFER TO SECTION 3.16.4 AND 3.21 OF THE IW COP FOR WATER INFRASTRUCTURE.

SCOUR VALVES TO HAVE SCOUR CHAMBERS AS PER IRISH WATER STANDARD DRAWING STD-W-30, IF A CONNECTION TO A SW MANHOLE IS NOT FEASIBLE, A CONNECTION TO A WASHOUT HYDRANT IN ACCORDANCE WITH STANDARD DETAIL STD-W-30A IS REQUIRED.

SCOUR VALVE ON AN OFFLINE PIPES TO BE AGREED BY LOCAL AUTHORITY. REFER TO SECTIONS 3.16.4 AND 3.21 OF IW COP.

VALVES, CHAMBERS AND HYDRANTS TO COMPLY WITH SECTION 3.18 OF THE IW COP FOR WATER INFRASTRUCTURE. WHERE PROVIDED IN GRASSED AREAS SHALL BE SURROUNDED BY CONCRETE PLINTH, 200mm ALL ROUND AND 100mm DEEP FORMED WITH C20/25 CONCRETE, 20mm AGGREGATE SIZE, BEDDED IN CLAUSE B04 MATERIAL. THE PLINTH SHALL INCORPORATE MILD STEEL REINFORCEMENT LINKS ALL AROUND AND SHALL HAVE BULL NOSE FINISH AROUND ITS EXTERNAL PERIMETER.

FOR WATERMAIN CONNECTIONS TO DWELLINGS, REFER TO M&E DRAWING DETAILING "POP-UP" LOCATIONS. ALL WATERMANS CONNECTIONS TO BE INSTALLED AS PER IRISH WATER COP IW-CDS-5030-03.

WATERMAIN HOUSE CONNECTIONS TO COMPLY WITH SECTIONS 3.7 & 3.15 OF THE IW COP AND STANDARD DETAIL DRAWING STD-W-03 AND STD-W-26.

BOUNDARY BOX AND INDIVIDUAL HOUSE WATERMAIN CONNECTION LOCATIONS SHOWN INDICATIVELY. FOR POP-UP LOCATIONS REFER TO M&E DRAWINGS.

PIPE MATERIALS SHALL BE HDPE OR MDPE IN ACCORDANCE WITH IW COP.

ALL DOMESTIC WATERMAIN CONNECTIONS SHOWN INDICATIVELY
 ALL WORKS TO CARRIED OUT IN ACCORDANCE WITH IRISH WATER CODES OF PRACTICE AND IRISH WATER DETAILS