



PROPOSED SCOUR VALVE AND OUTLET TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER DETAILS AND IW CODE OF PRACTICE ITEM 3.16.4

PROPOSED WATERMAIN CONNECTED TO EXISTING IW WATERMAIN

PROPOSED WATERMAIN INSTALLED TO IW SPECIFICATION



**LEGEND:**

64.750	PROPOSED SPOT LEVEL
---	PROPOSED WATERMAIN
- - - -	EXISTING WATERMANS
SV	SLUICE VALVE
ScV	SCOUR VALVE
AV	AIR VALVE
TB	THRUST BLOCK
M	WATER METER
H	PROPOSED HYDRANT
BB	BOUNDARY BOX

- ALL WATERMANS SHALL BE 100mm Ø HDPE PE100 (16 BAR) TYPE WATERMAIN U.N.O.
  - ALL WATERMANS SHOULD BE LOOPED TO AVOID DEAD ENDS.
  - ONLY USE ALL FLANGED T'S & ALL FLANGED VALVES.
  - USE ANTI-CLOCKWISE (LEFT-HAND CLOSING) SLUICE VALVES.
  - DO NOT USE DUCTILE IRON TAILS - USE FLANGE ADAPTORS WHERE APPLICABLE.
  - ONLY USE SCREW TYPE HYDRANTS.
  - THE DEPTH OF THE SLUICE VALVE SPINDLE CAP BELOW FINISHED GROUND LEVEL SHOULD NOT EXCEED 300mm.
  - THE DEPTH OF THE HYDRANT OUTLET BELOW FINISHED GROUND LEVEL, SHOULD NOT EXCEED 200mm.
  - AN APPROVED MARKER TAPE CONTAINING A TRACER WIRE, SHOULD BE AFFIXED TO THE TOP SURFACE OF ALL WATERMANS.
  - NO PIPE, CABLE, CONDUIT OR OTHER SERVICE SHOULD BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN.
  - ENSURE MARKER PLATES ARE IN PLACE.
  - ALL WATERMANS SHOULD BE TESTED AT 1.5 TIMES THE WORKING PRESSURE FOR ONE HOUR IN THE PRESENCE OF A MEMBER OF STAFF FROM THE WATERWORKS DEPARTMENT. DETAILS OF TESTING PROCEDURE TO BE DISCUSSED ON SITE WITH CONTRACTOR.
  - ALL HYDRANTS TO BE PUT IN, IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF THE BUILDING REGULATIONS 2000/2007 S.S 5.1.6 T.G.D.B & B.5.1 T.G.B.D & THE D.O.E. "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS".
  - HYDRANTS TO BE LOCATED IN ACCORDANCE WITH THE FIRE OFFICER'S RECOMMENDATIONS.
  - PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION.
  - ALL CONNECTIONS POINTS TO BUILDING TO BE SERVICED WITH PE-X-100 HDPE PIPE WITH AN SDR RATING OF 11.
  - ALL WATERMANS, METERS, HYDRANTS & VALVES TO BE INSTALLED, TESTED & CLEANED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
  - BUTT FUSION WELDING AND ELECTRO FUSION JOINING OF PIPES SHALL ONLY BE CARRIED OUT BY TRAINED OPERATIVES IN POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING FULLY AUTOMATIC APPROVED JOINING MACHINE/RIGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE IDENTITY OF THE HDPE PIPELINE MANUFACTURER SHALL BE MADE KNOWN TO IRISH WATER PRIOR TO COMMENCEMENT OF THE INSTALLATION.
  - ALL TESTING (PRESSURE CHLORINATION & BACTERIAL) TESTS TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES SPECIFICATION. THE ENGINEER IS TO INSPECT THE PRESSURE TEST AFTER THE WATER CONTROL METRES ARE INSTALLED. ALL HYDRANTS & VALVES ARE TO BE INCLUDED IN THE TEST.
  - CERTIFICATION AND TESTING (INCLUDING INDEPENDENT THIRD PARTY CERTIFICATION) SHALL BE PROVIDED TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED AUTOMATICALLY ON THE JOINING MACHINE.
  - A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE PROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES.
  - CONNECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY IRISH WATER OR AN APPROVED IRISH WATER AGENT.
  - WHEN EXISTING AC WATERMANS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL BE SUBMITTED TO IRISH WATER PRIOR TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL, DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO EXISTING AC.
- FIRE HYDRANTS TO BE POSITIONED A MINIMUM OF 6m FROM THE PROPOSED BUILDING FOUNDATIONS.
  - LOCATIONS OF FIRE HYDRANTS AS PER FIRE CERTIFICATE DRAWINGS.
  - FIRE HYDRANTS TO BE IN ACCORDANCE WITH THE FIRE OFFICER RECOMMENDATIONS.
  - ALL FIRE HYDRANTS TO BE LOCATED IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS, 1997 & TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS, 2006 STATUTORY INSTRUMENT 497 OF 1997.
  - FINAL VERIFICATION SHOULD BE SOUGHT FROM THE FIRE AUTHORITY FOR AGREED LAYOUT OF ALL HYDRANTS & THE NUMBER OF WATER SUPPLY CONNECTIONS TO THE FIRE WATER RING MAIN.

**IRISH WATER QA:**  
 THE CONTRACTOR IS TO INCLUDE FOR THE EMPLOYMENT OF A CHARTERED ENGINEER WITH PI INSURANCE TO €6.5M 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. THE MAIN CONTRACTORS CHARTERED ENGINEERS AND THE MAIN CONTRACTOR ARE RESPONSIBLE FOR AGREEING ON SITE CONFORMANCE WITH IW PRIOR TO HAND OVER OF THE WORKS TO IW. THE PRICE FOR ALL THE ABOVE IS TO BE INCLUDED IN THE MAIN CONTRACTORS TENDER SUM.

WATERMANS WORKS AND DESIGN IS TO BE IN ACCORDANCE WITH IRISH WATER COP DOCUMENT IW-CDS-5020-03 & WATER STANDARD DETAILS DOCUMENT IW-CDS-5020-01

WHERE HYDRANTS ARE LOCATED IN GRASSED AREA PROVIDE CONCRETE PLINTH SURROUND AROUND COVER

- NOTES:**
- GENERAL NOTES:**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.
  - ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.
  - ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
  - DO NOT SCALE - WORK TO FIGURE DIMENSIONS ONLY.



Referenced drawings

Dwg No.	Dwg Title

Issue register

Rev.	Date	Description	Dwn.	Chkd.	Apprv.
PL1	03.12.21	PART 8	TJD	NJP	WJP

Client: **KILDARE CO. CO.**

Job Description: **AMBASSADOR SITE HOUSING KILL, Co. KILDARE**

Status: **PART 8**

Drawing Title: **LEVELS & WATERMAIN LAYOUT PLAN**

Project No: <b>21KK009</b>	Drawing Ref: <b>C-001</b>	Rev: <b>PL1</b>
Date: <b>10.09.18</b>	Scale: <b>A1-1:500 @ A3-1:1000</b>	
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