



**NOTES:**

- 01 - ALL WATER SUPPLY DESIGN & CONSTRUCTION TO COMPLY WITH IRISH WATER CONNECTIONS & DEVELOPMENT SERVICES CODE OF PRACTICE FOR WATER INFRASTRUCTURE (DOC REF: IW-CDS-5020-03)
- 02 - ALL WATER SUPPLY CONSTRUCTION DETAILS TO COMPLY WITH IRISH WATER CONNECTIONS & DEVELOPMENT SERVICES WATER INFRASTRUCTURE CODE OF PRACTICE (DOC REF: IW-CDS-5020-01)
- 03 - ALL DIMENSIONS IN MILLIMETERS (MM) UNLESS NOTED OTHERWISE
- 04 - SLUICE VALVE & HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO 250 THK OR BS 5834. CONCRETE AND FRAME SHALL BE CAST IRON. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT BACKGROUND.
- 05 - SLUICE VALVES SHALL BE RESIDENT SEATED AND SHALL COMPLY WITH SPECIFICATIONS BS EN 10741, BS EN 10742 OR EQUIVALENTS.
- 06 - ALL SLUICE VALVES SHALL BE WITH CLOSURE CLIPPING.
- 07 - ALL HYDRANT CHAMBERS TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPERTIES PREPARED/CAST CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH WATER.
- 08 - CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150MM COMPACTED GRADE 800 W/10% FINE.
- 09 - ALL HYDRANTS, SURFACE BOX ROOMS & COVERS SHALL COMPLY WITH THE STEEL PIPE HYDRANTS SPECIFICATION BS EN 14201 IS EN 14202.
- 10 - ALL HYDRANT PIPES AND FITTINGS TO BE IN ACCORDANCE WITH BS EN 14201 IS EN 14202.
- 11 - ALL HYDRANT PIPES AND FITTINGS TO BE IN ACCORDANCE WITH BS EN 14201 IS EN 14202.
- 12 - PROTECTIVE 200mm ALL AROUND 100mm DEEP CONCRETE SLAB WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND PLANT IN GREEN AREAS.
- 13 - AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 10744. AIR VALVES SHALL BE DOUBLE OFF THE TYPE AND SHALL INCLUDE AN ISOLATING VALVE. THE ISOLATING VALVE SHALL BE A GATE VALVE. CONSTRUCTION TO BS EN 10744 SHALL BE 57% (LESS SINKER DESIGN).
- 14 - THE AIR VALVES SHALL HAVE RODS AND COVERS OF CAST IRON TO BS EN 1022. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR ESCAPE ORIFICE WITH AN ISOLATING VALVE.
- 15 - AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SINKER FOR ROAD AND TRAFFIC LOADS. CONSTRUCTION TO BE SUBJECT TO THE APPROVAL OF IRISH WATER.
- 16 - SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION.
- 17 - AIR VALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH PREPARED/CAST CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH WATER.
- 18 - THE LOCATION OF AIR VALVES SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVES IS ELIMINATED.
- 19 - THRUST BLOCKS TO BE PROVIDED AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PRESS AT STEEP SLOPES.
- 20 - ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- 21 - ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
- 22 - PREWORK TO BE DOWN SIZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE FLOW METER SHALL BE SUFFICIENT TO PROVIDE A SUFFICIENT FLOW METER SHALL BE PROVIDED WITH APPROPRIATE VALVES, FITTINGS AND PRESSURE.
- 23 - ALL CHAMBERS FOR USE BY THE DEVELOPER BASED MEASURES SHOULD BE REMOVED. THE SITE SHOULD BE RESTORED TO ORIGINAL CONDITION. THE SITE SHOULD BE RESTORED TO ORIGINAL CONDITION FROM IRISH WATER.
- 24 - WATERMANS SURFACE FOR WORK SHALL BE EITHER DUCTILE IRON HOPE OR PIPE.
- 25 - ALL NEW WATERMAIN PIPE NETWORKS SHALL UNDERGO TESTING & COMMISSIONING, IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATER CONNECTIONS & DEVELOPMENT SERVICES CODE OF PRACTICE FOR WATER INFRASTRUCTURE (DOC REF: IW-CDS-5020-03) PRIOR TO CONNECTING TO THE IRISH WATER NETWORK.

**TYP. MARKER PLATE**

MARKER PLATE	H
HYDRANT	Scv
SLUICE VALVE	SV
SCOUR VALVE	AV
AIR VALVE	WO
WASHOUT HYDRANT	Me
METER	PRV / Psv
PRESSURE REDUCING / SUSTAINING VALVE	

**THRUST BLOCK NOTE:**

SYMETRICALLY POSITIONED CONCRETE THRUST BLOCKS OF GRADE C20/25 CONCRETE SHALL BE CONSTRUCTED AT ALL DEAD ENDS, TEES, TAPERS, PIPE CHANGE OVER & HORIZONTAL / VERTICAL BENDS OF GREATER THAN 11.25°. THRUST BLOCK SIZES (BASED ON ASSUMED BEARING CAPACITY OF 100kN/m<sup>2</sup>) VARY WITH PIPE DIAMETER. PIPE TEST PRESSURE & WITH ANGLE/TYPE OF PIPE JOINT. FOR DETAILS & SIZE OF THRUST BLOCK FOUNDATIONS REFER TO DETAILS & WATER DOC. REF: IW-CDS-5020-01

**MARKER POST NOTES:**

- 01 - WHERE PRACTICAL MARKER PLATES SHALL BE FIXED TO ADJACENT WALLS OR ALTERNATIVELY ATTACHED TO MARKER POSTS.
- 02 - PLATES TO BE FIXED IN POSITION USING WALL PLUGS AND STAINLESS STEEL SCREWS.
- 03 - MARKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3291.
- 04 - FOR HYDRANT PLATE ALL CHARACTERS SHOULD BE BLACK AND THE REMAINDER OF THE FRONT FACE SHOULD CONFORM TO COLOUR REFERENCE No. 309 (CANARY YELLOW) OF BS381C.
- 05 - PIPE DIAMETER ON HYDRANT PLATE TO REFER TO WATERMAIN NOT BRANCH.
- 06 - SLUICE VALVE, AIR VALVE, SCOUR VALVE, WASHOUT HYDRANT AND METER PLATES SHOULD BE CAST IRON. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT BACKGROUND.
- 07 - CONCRETE SURROUND TO MARKER POST TO BE GRADE C25 / 30 AND IN ACCORDANCE WITH IS EN 206/2013.
- 08 - PLASTIC MARKER POSTS ARE NOT ACCEPTABLE.
- 09 - ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

**PROJECT**  
**Jacobs Island - SHD**

**CLIENT**  
**Hibernia Star Ltd.**

**TITLE**  
**Typical Watermain Details**

**DRAWN BY** B.L.  
**CHECKED BY** M.M.  
**APPROVED BY**

**SCALE** As Shown  
**PROJECT NUMBER** 21168

**DOCUMENT REFERENCE** 21168-MMS-ZZ-ST-DR-C-10209

**PROJECT ORIGINATOR** ZONE LEVEL - TYPE: DR-C, LINE NUMBER: P01

Rev	Srs	Description	Date
P01	S2	Issue For Planning	15.06.22

**MIMOS** The Chapel, Blackrock House, Blackrock, Co. Dublin, Ireland. Tel: +353 21 4317898

**MURPHY - MATSON - O'SULLIVAN** Cork, T12 XKR7