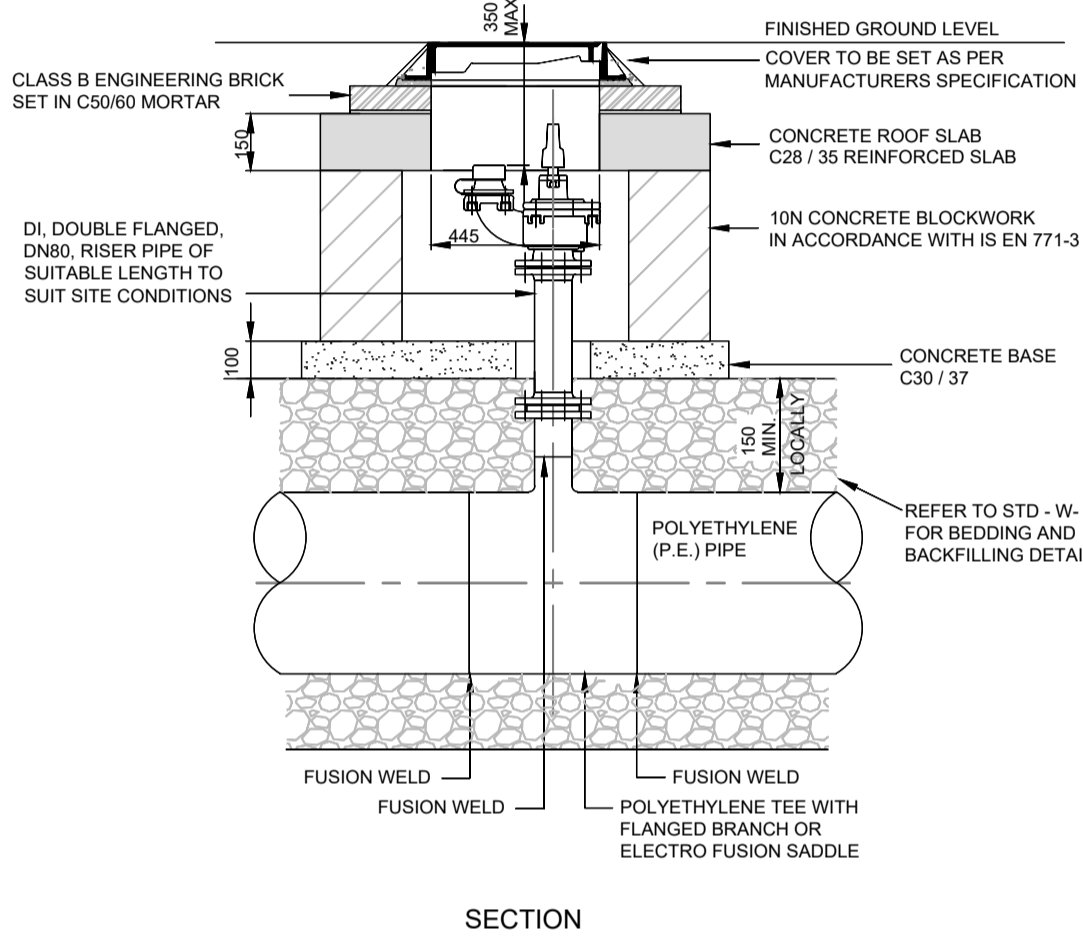
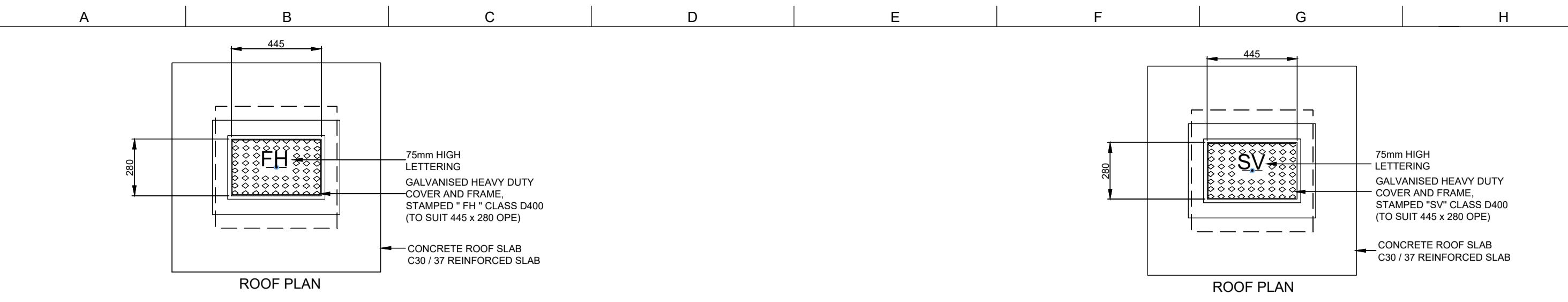
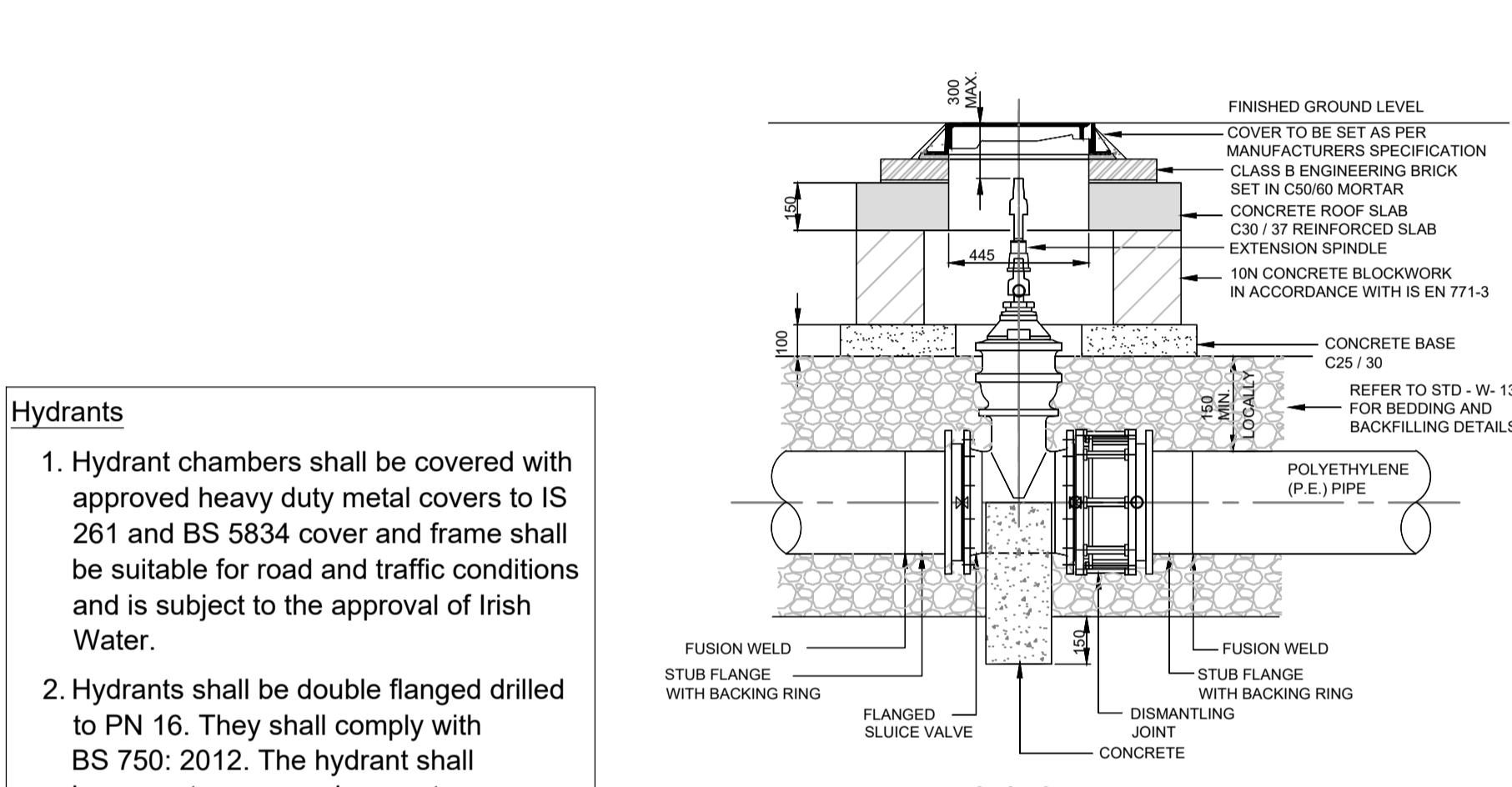


A1
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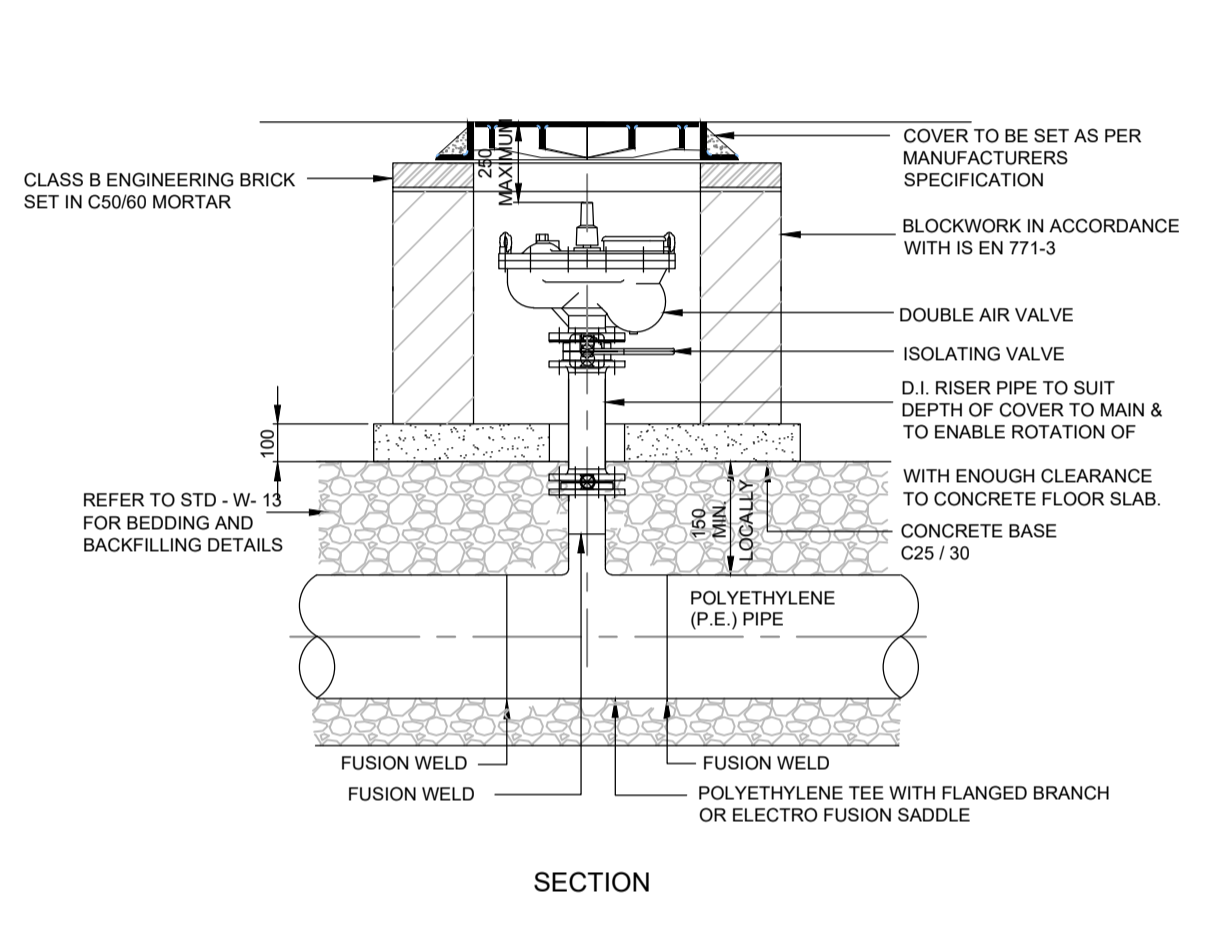
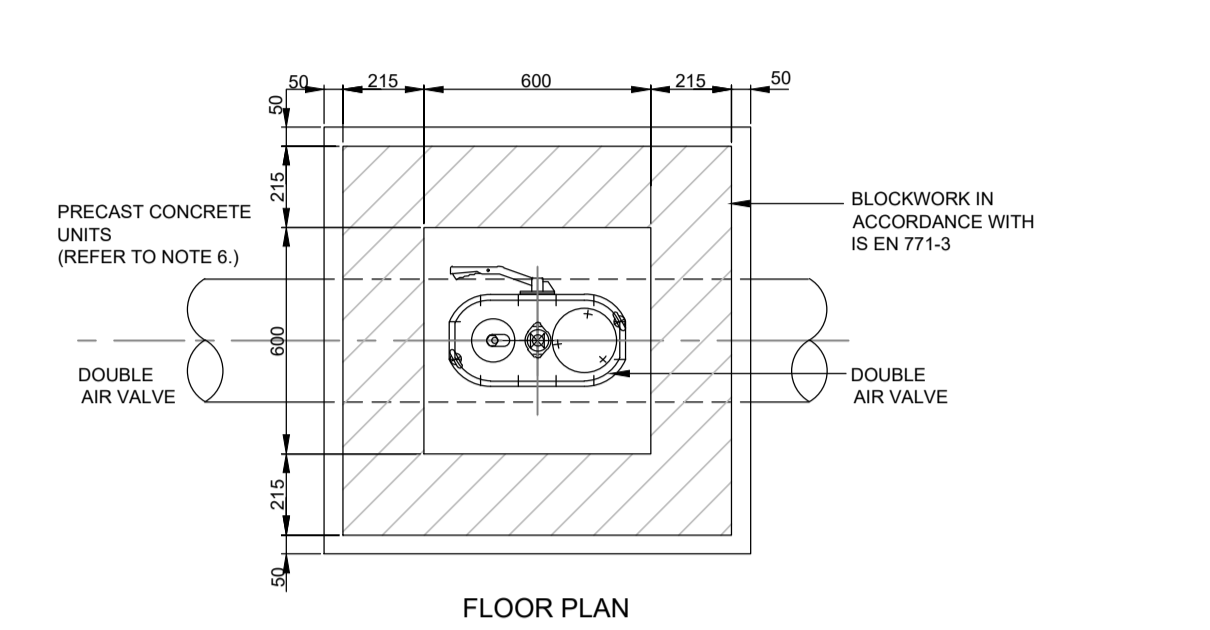
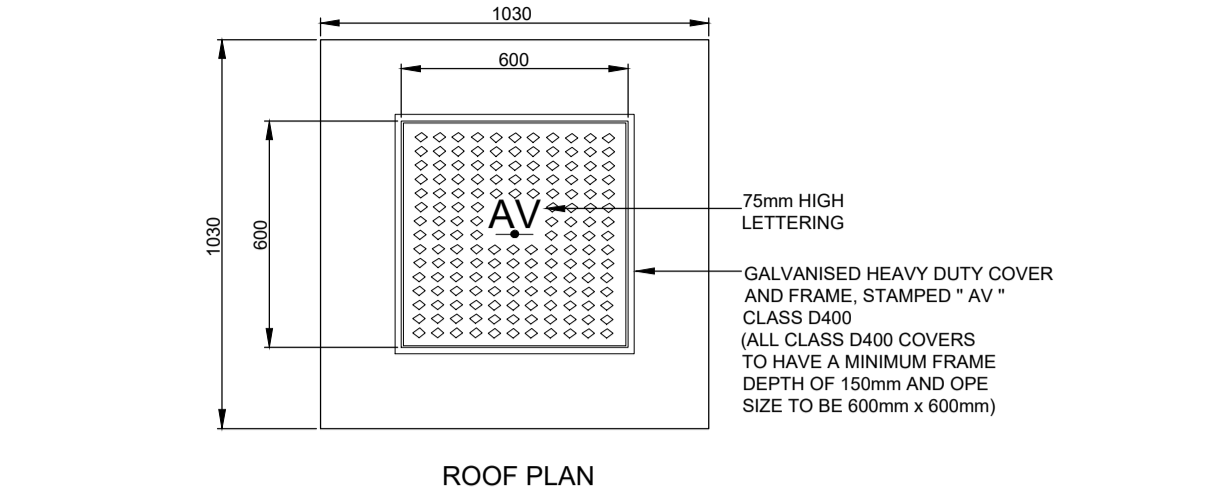
ONLINE FIRE HYDRANT CHAMBER (BLOCKWORK CONSTRUCTION)
REFER TO IRISH WATER STANDARD DETAILS STD-W-16 TO STD-W-19 FOR DETAILS OF HYDRANT CONNECTION VARIANTS



SECTION SLUISE VALVE CHAMBER (BLOCKWORK CONSTRUCTION)
Refer to Irish Water Standard Details STD-W-15 For Details of Sluice Valve Connection For PE Pipework

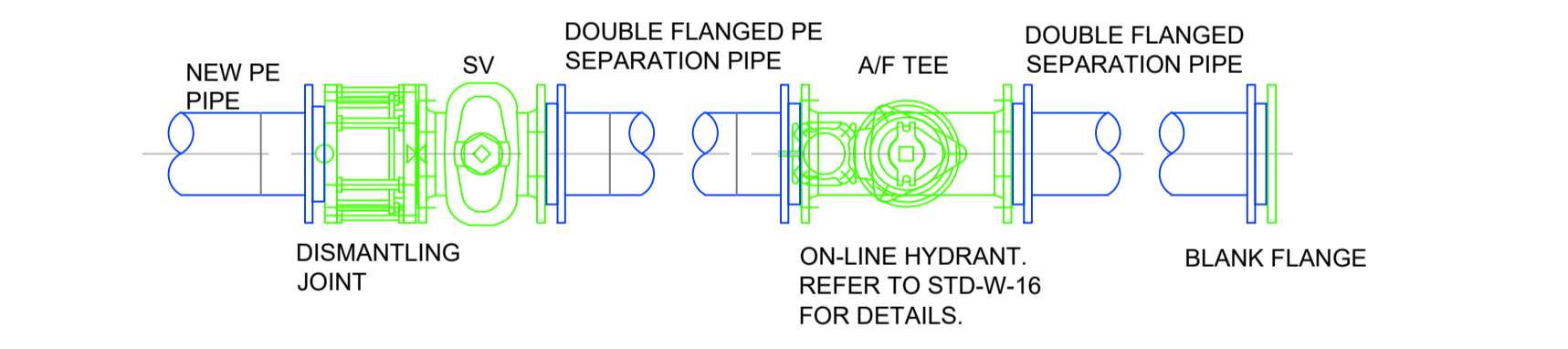
- Hydrants**
- Hydrant chambers shall be covered with approved heavy duty metal covers to IS 261 and BS 5834 cover and frame shall be suitable for road and traffic conditions and is subject to the approval of Irish Water.
 - Hydrants shall be double flanged drilled to PN 16. They shall comply with BS 750: 2012. The hydrant shall incorporate a screw down gate valve, underground "Guide to Head" type with screw down connection outlet and false spindle cap and iron chain.
 - All hydrants shall be clockwise closing.

- Air Valves**
- Air valve chambers shall be covered with approved ventilated heavy duty metal covers to IS EN 124: 1994 rating D400. Cover and frame shall be suitable for road and traffic conditions and is subject to the approval of Irish Water.
 - Air valves shall be double air valve type with isolating valve in accordance with the requirements of IS EN 1074. The isolating valve shall be a resilient seated gate valve to IS EN 1074 and shall be of a boltless bonnet design.
 - The air valves shall have bodies and covers of cast iron to BS 1561 with flanges drilled to PN 16 in accordance with BS EN 1092-1. Each valve shall have a large and a small air escape orifice with an isolating valve.
 - Service connections shall not be provided within 2m of the air valve location.
 - The location of the air shall be the subject of particular agreement with Irish Water to ensure that the risk of contamination through the valve is eliminated.



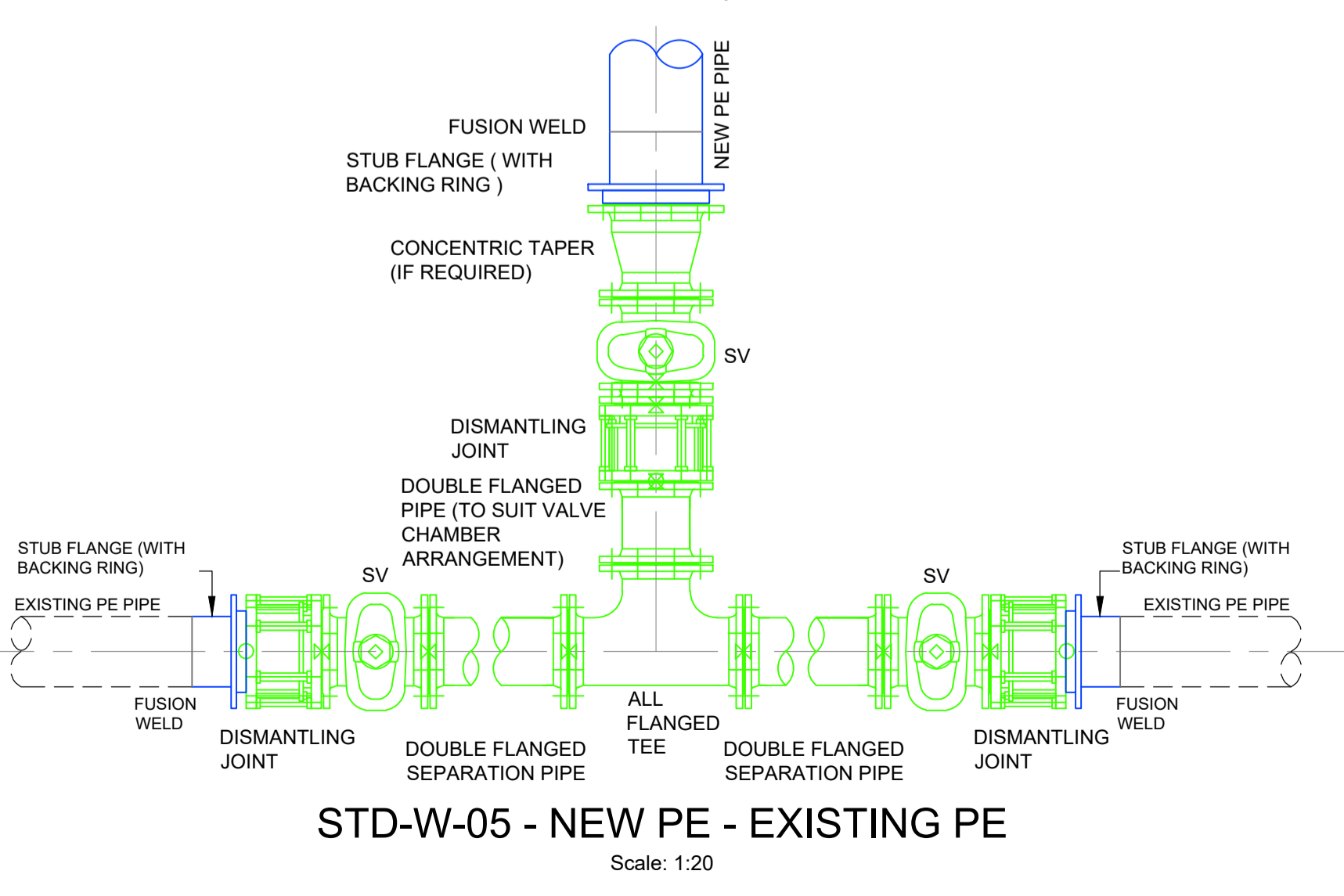
DOUBLE AIR VALVE (BLOCKWORK CONSTRUCTION)
Refer to Irish Water Standard Details STD-W-20 to STD-W-23 For Details of Air Valve Connection Variants

- Sluice Valves**
- Sluice valve chambers shall be covered with approved heavy duty metal covers to IS 261 and BS 5834. Cover and frame shall be suitable for road and traffic conditions and is subject to the approval of Irish Water.
 - 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 IS EN 1074 and they shall have the BS Kitemark.
 - All sluice valves shall be anti-clockwise closing



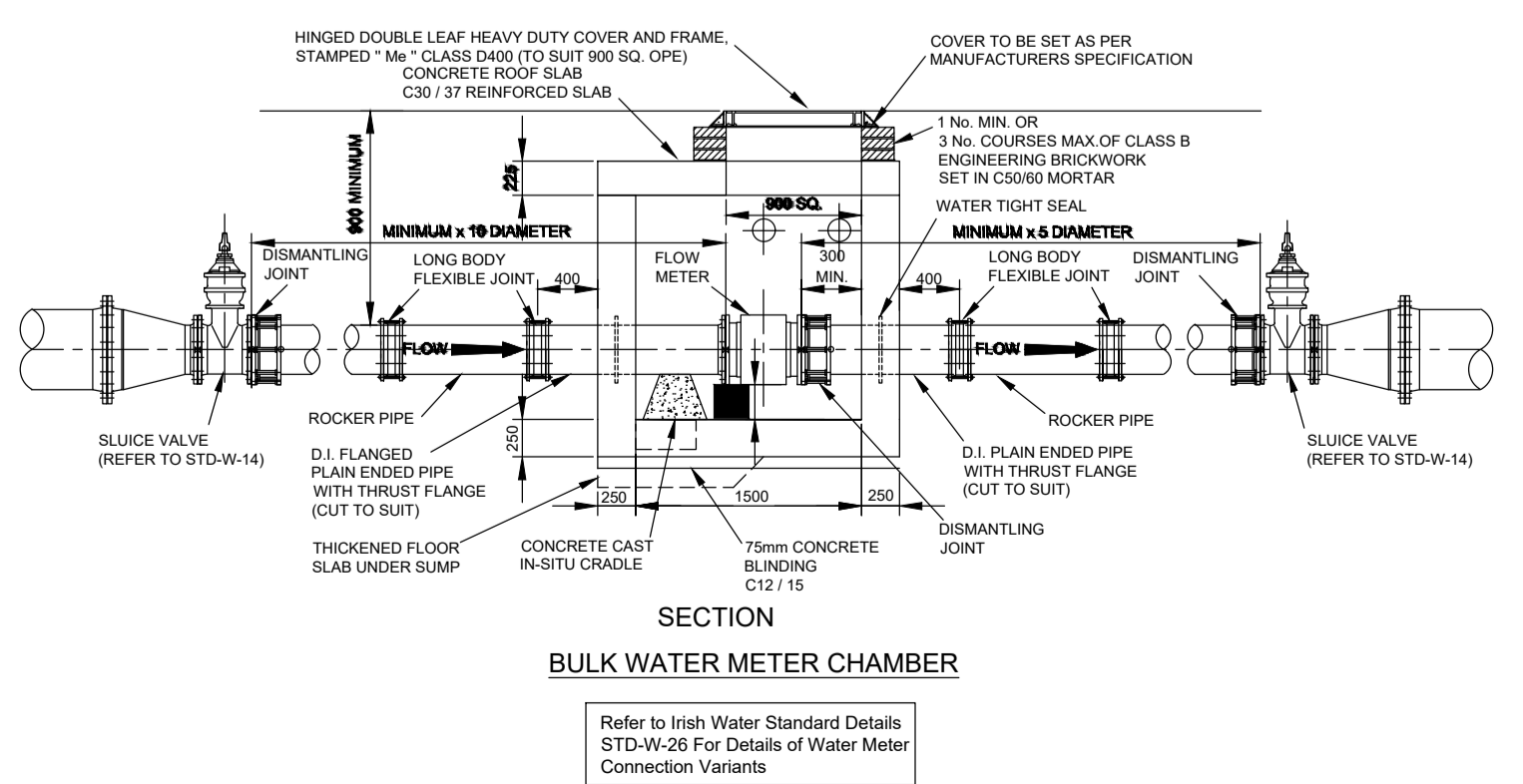
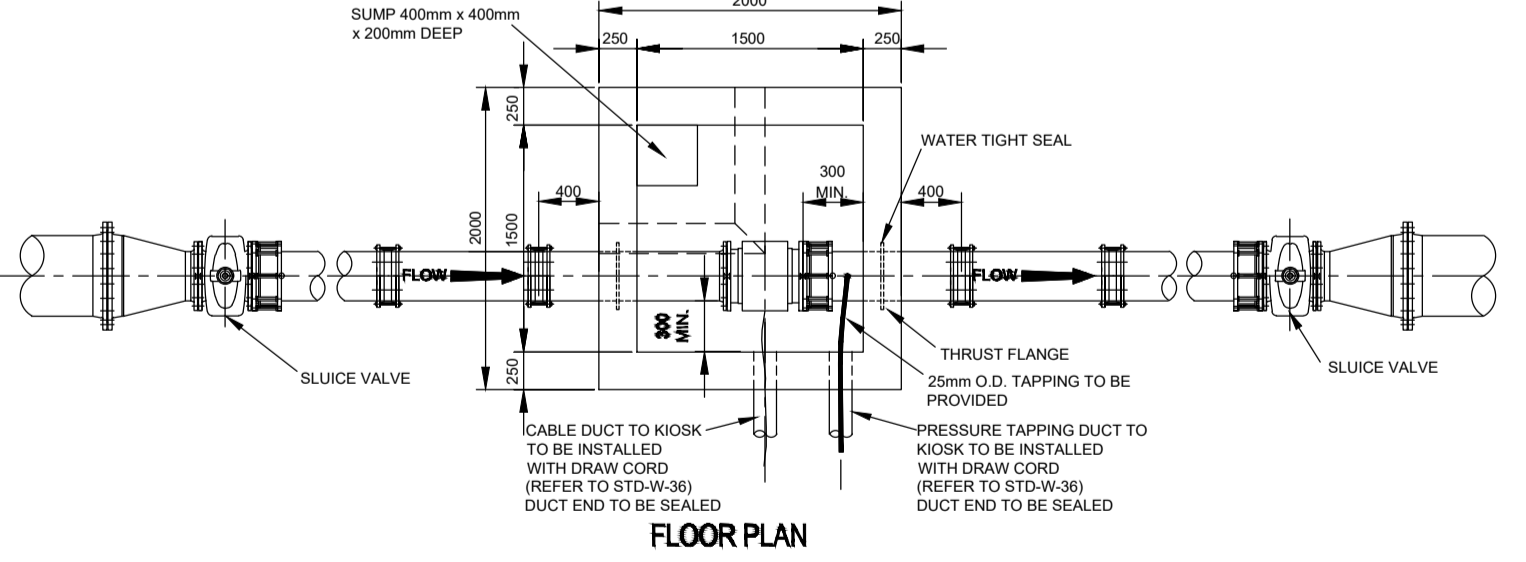
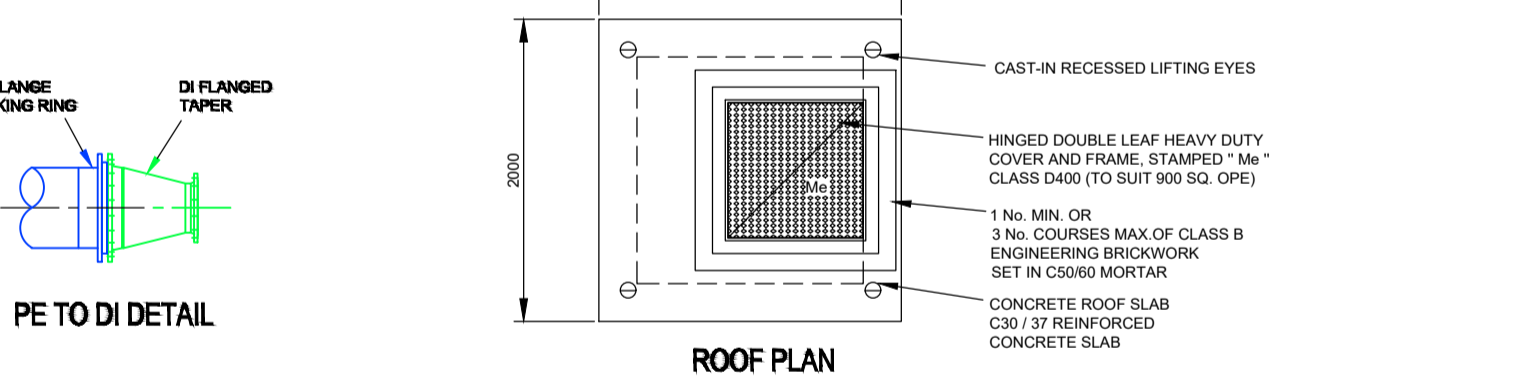
REFER TO IRISH WATER STANDARD DETAILS STD-W-05 FOR DETAILS OF PE PIPEWORK CONNECTION DETAILS

STD-W-05 - TEMPORARY "DEAD-END" DETAIL (Future Connection)



STD-W-05 - NEW PE - EXISTING PE
Scale: 1:20

- Meter Chamber**
- Structural design and reinforcement detail to be provided by the developer and submitted to Irish Water for review.
 - Concrete for flow meter chamber to be C30/37.
 - Meter chamber shall be covered with approved heavy duty metal covers to IS EN 124:1994 rating D400. Cover and frame shall be suitable for road and traffic conditions and is subject to the approval of Irish Water.
 - All chambers to be checked for uplift by the developer based on ground conditions within the site. Should anti floating measures be required they shall be subject to approval from Irish Water.
 - Pipework to be downsized to accommodate the required range of the flow meter, straight pipe lengths upstream and downstream of the meter to be provided. If the meter is not capable of accurate night flow measurements a by-pass flow meter shall be provided with appropriate valves, fittings and pipework.



BULK WATER METER CHAMBER
Refer to Irish Water Standard Details STD-W-26 For Details of Water Meter Connection Variants

- Notes:**
- This Drawing shall be Read in Conjunction with all Other Relevant Specifications & Drawings including Civil Site Drawings.
 - Note that the construction and installation of all water mains, valves, hydrants, meters, chambers, marker posts etc. are to be carried out in accordance with the Water Infrastructure Standard Details by Irish Water. If any discrepancies are found between the Irish Water Standard Details and the information on this drawing then the Irish Water Standard Details shall govern.
 - All dimensions in millimetres (mm) unless noted otherwise.
 - Chambers are to be constructed of 10N blockwork.
 - Concrete chambers shall be surrounded by a minimum of 150mm compacted Clause 804 Material as per STD-W-13.
 - Ductile iron pipes and fittings to be in accordance with IS EN 545. PE pipes and fittings to be in accordance with IS EN 12201:2011.
 - 200mm all around, 100mm deep concrete plinth with protective stainless steel metal band around cover in green areas.
 - Thrust blocks (not shown on drawing), to be provided as per standard drawing STD-W-28.
 - Anti-corrosion tape to be provided around buried flanges.
 - All concrete to be in accordance with IS EN 206.

C01	12/04/19	D.F.	F.O.S.	J.D.
Issued for Construction (Status A4)				
P04	19/03/19	J.B.	F.O.S.	J.D.
Issued for Construction Approval				
P03	05/10/18	J.T.C.	F.O.S.	J.D.
Issued for Construction Approval				
P02	23/07/18	B.M.	F.O.S.	J.D.
Issued for Tender				
P01	28/06/18	B.M.	F.O.S.	J.D.
Issued for Review & Comment				
Rev	Date	By	Chkd	Appd

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www.arup.com

Client
HQ **bam**
CLARENDON

Project Title
HQ Horgan's Quay

Drawing Title
Proposed Typical Watermain Details Sheet 1

Scale at A1: As Shown
Role: Civil
Suitability: A4 - Approved as Stage Complete
Arup Job No: **252901-00** Rev: **C01**
Name: **HQDPR-ARP-ZZ-XX-DR-C-3501**