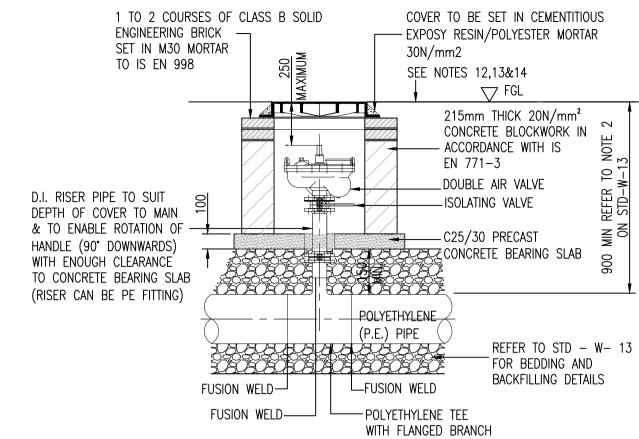


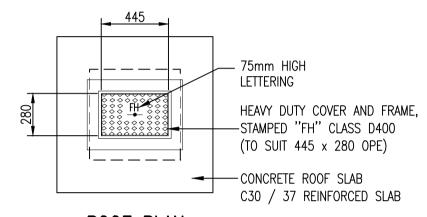
SECTION THROUGH

OFF-LINE FIRE HYDRANT CHAMBER

SECTION



SECTION THROUGH



215mm THICK 20N/mm²

HYDRANT

CONCRETE BLOCKWORK IN

ACCORDANCE WITH IS EN 771-3

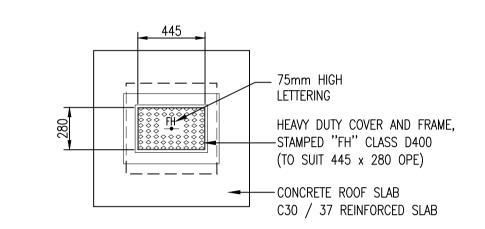
ROOF PLAN ON-LINE FIRE HYDRANT CHAMBER

50 | 215 | 600 | 215 | 50

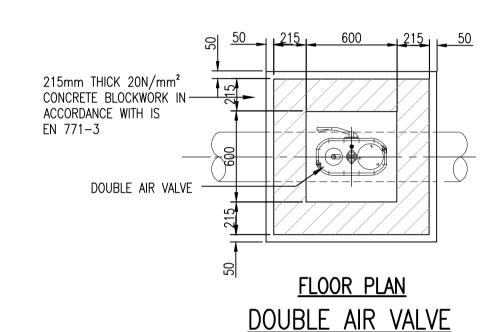
FLOOR PLAN

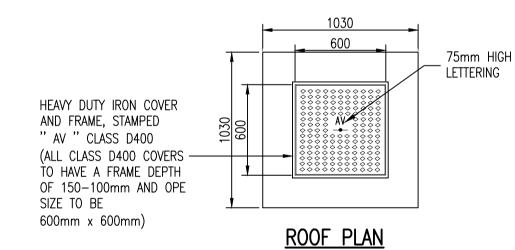
ON-LINE FIRE HYDRANT CHAMBER

(BLOCKWORK CONSTRUCTION)



ROOF PLAN OFF-LINE FIRE HYDRANT CHAMBER



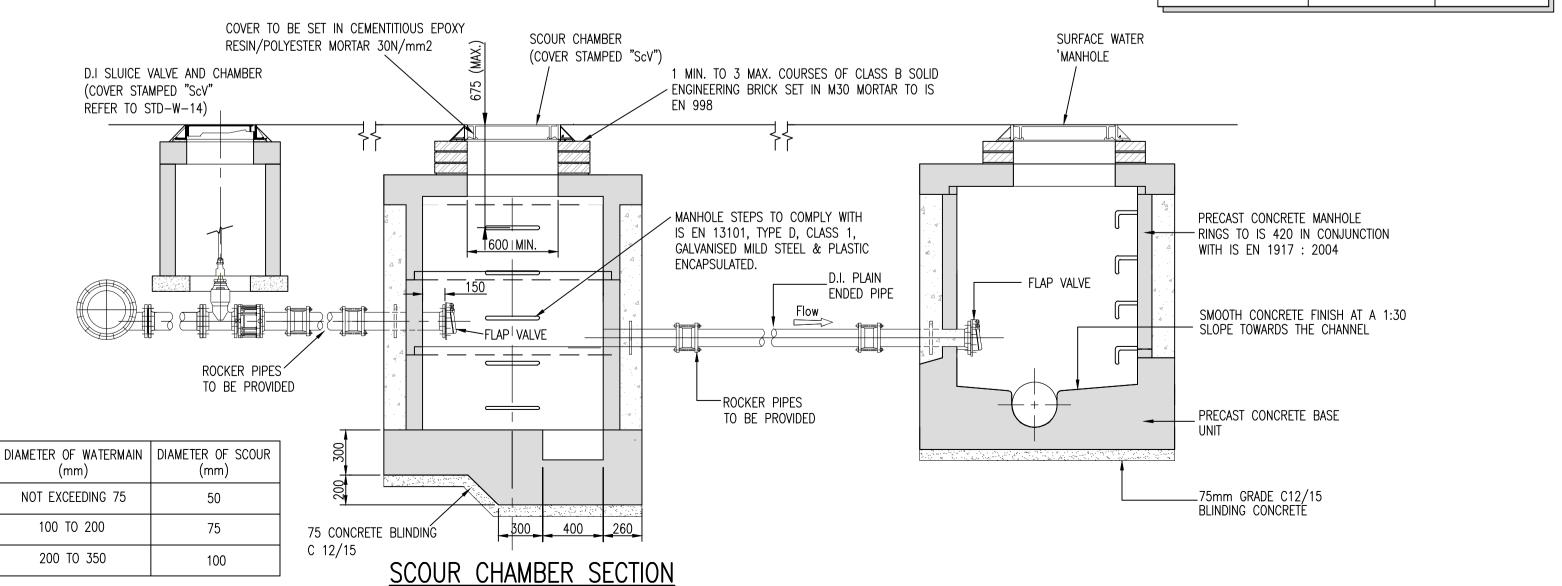


FLOOR PLAN OFF-LINE FIRE HYDRANT CHAMBER (BLOCKWORK CONSTRUCTION)

STD-W-30B



DOUBLE AIR VALVE



215mm THICK 20N/mm

ACCORDANCE WITH IS

EN 771-3

HYDRANT

CONCRETE BLOCKWORK IN

HYDRANT NOTES:

- 1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 261 AND BS 5834 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
- 3. ALL HYDRANTS, SURFACE BOX FRAMES & COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS EN 107 4-6 & BS 750. FIRE HYDRANT SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN16.
- 4. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.
- 5. HYDRANT CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO REVIEW BY IRISH WATER. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE. GRADE C30/37. WITH A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY ALSO BE USED, SUBJECT TO IRISH WATER REVIEW & COMPLIANCE WITH IS EN 1917& IS 420. PCC CHAMBER RISER UNITS SHOULD BE INTERLOCKING WHEN STACKED TO PREVENT LATERAL MOVEMENT OF INDIVIDUAL
- CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 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 AROUND COVERS IN GREEN AREAS. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STD-W-28 ALL TEES, BENDS,
- TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
- 10. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
- 12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- 13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. 14. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT
- INFRASTRUCTURE IRELAND REQUIREMENTS. 15. THE FIRE HYDRANT OUTLET TYPE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE
- OFFICER FOR THE AREA AND SHALL BE AGREED PRIOR TO THE COMMENCEMENT OF WORKS. 16. THE HYDRANT SHALL BE DOUBLE FLANGED DRILLED TO PN 16. THEY SHALL COMPLY WITH IS EN 14339, IS EN 1074 PART 6 AND BS 750:2012. THE HYDRANT SHALL INCORPORATE A SCREW DOWN GATE VALVE, UNDERGROUND 'GUIDE TO HEAD' TYPE WITH A FALSE SPINDLE CAP. THE OUTLET SHALL BE IN ACCORDANCE WITH ITEM 15 ABOVE.
- 17. 450x600mm INTERNAL DIMENSION CHAMBER MAY BE PROVIDED SUBJECT TO REVIEW BY IW. SUCH CHAMBERS SHALL BE PROVIDED WITH GRADE 'A' HEAVY DUTY COVER & FRAME & STAMPED 'SV'.

AIR VALVE NOTES:

- ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 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. 4. 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 1091-1. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR
- ESCAPE ORIFICE WITH AN ISOLATING VALVE. 5. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION.
- AIRVALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVE PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH
- 7. PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER DRAWING C305.
- 8. DUCTILE IRON PIPES / FITTINGS AND PE PIPES / FITTINGS TO BE IN ACCORDANCE WITH IS EN 545 AND IS EN 12201:2011.
- 9. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
- 10. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING C307 AT
- ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES
- 11. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- 12. THE LOCATION OF THE AIR VALVE SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVE IS ELIMINATED.
- 13. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

SCOUR VALVE NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. STRUCTURAL REINFORCEMENT AND DESIGN DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS. & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT
- TO IRISH WATER REVIEW, & COMPLIANCE WITH IS EN 1719 & IS 420 1. CONCRETE FOR SCOUR CHAMBER AND HEADWALL TO BE C30 / 37.
- 2. PREFABRICATED CHAMBER AND HEADWALL MAY ALSO BE USED. SUBJECT TO REVIEW FROM IRISH WATER. 3. SCOUR CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW IRISH WATER.
- 4. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GRASS AREAS.
- 5. FINAL DETAIL TO BE REVIEWED BY IRISH WATER AND RELEVANT REGULATORY AUTHORITIES.
- 6. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
- 7. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. 8. ALL PIPEWORK AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN
- ACCORDANCE WITH IS EN12201:2011. 9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN
- THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO AGREEMENT WITH IRISH WATER.
- 10. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
- 11. BACKFILL AND REINSTATEMENT OF RIVER BED AND BANK TO BE SUBJECT TO AGREEMENT WITH IRISH WATER & RELEVANT AUTHORITIES.

PLANNING SUBMISSION Description

This drawing should not be scaled. Dimensions to be verified on site.

any discrepancies should be referred to the Engineer prior to work being put in hand.

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2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL

OTHER RELEVANT ARCHITECTURAL AND ENGINEERING

PROPOSED RESIDENTIAL DEVELOPMENT GRANGE ROAD. DUBLIN 13

Amendments

WATERMAN DETAILS SHEET 2 OF 4

RONDESERE LTD.



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PLANNING			
signed By SDN	Approved IW	Waterman Ref	22-109
G.Byrne	DEC. 2023	Scales @ A1	1:25
Project - Originator - Volume - Level - Type - Role - Number			Revision
GRR-WMC-PH1-00-DR-C-311			P01

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