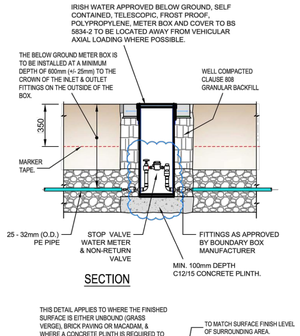
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

GENERAL NOTES:

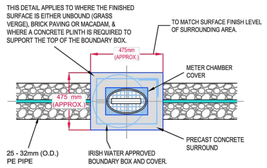
1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. FOR CONNECTION TO AN EXISTING MAIN THE CONNECTION SHALL BE AS PER THE PIPE MANUFACTURER'S SPECIFICATION.
3. ELECTRO FUSION COUPLING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

BOUNDARY BOX NOTES:

1. THE BOUNDARY BOX IS TO BE IN ACCORDANCE WITH THE IRISH WATER SPECIFICATION, INCORPORATING A STOP TAP, FROST PLUG & NON-RETURN VALVE.
2. THE BOUNDARY BOX SHALL BE POSITIONED IN PUBLIC SPACE & AS CLOSE AS POSSIBLE TO THE PROPERTY BOUNDARY BUT NO PART OR FITTING TO BE WITHIN 225mm OF THE PROPERTY LINE.
3. THE BOUNDARY BOX SHALL BE LOCATED WHERE IT IS SAFE TO OPEN THE COVER & ACCESS THE STOP TAP OR VISUALLY READ THE METER, i.e. ON A FOOTPATH OR VERGE, & NOT IN A TRAFFICKED AREA.
4. THE SURFACE BOX COVER ON THE BOUNDARY BOX SHOULD BE NOT LESS THAN GRADE C (BS 5834-2:2011), & THE BOUNDARY BOX SHOULD BE LOCATED SUCH THAT HEAVIER GRADES OF COVER WOULD NOT BE REQUIRED.
5. THE SHAFT OF THE BOUNDARY BOX IS TO BE INSTALLED VERTICALLY, & THE SURFACE BOX/COVER INCLINED TO MATCH THE SURFACE GRADIENT.
6. THE BOUNDARY BOX IS TO BE INSTALLED AT A MINIMUM DEPTH OF 600mm (+/- 25mm) TO THE CROWN OF THE INLET & OUTLET FITTINGS ON THE OUTSIDE OF THE BOX.
7. THE SERVICE CONNECTION PIPE SHALL NOT BE WRAPPED AROUND THE SHAFT OF THE BOUNDARY BOX OR BENT IN ANY RADIUS LESS THAN THAT APPROVED BY THE MANUFACTURER.
8. THE PIPE FITTINGS TO THE BOUNDARY BOX SHALL BE APPROVED BY THE BOUNDARY BOX MANUFACTURER.
9. THE BOUNDARY BOX SHALL BE INSTALLED HYGIENICALLY & LEFT CLEAN & FREE OF CONSTRUCTION WASTE OR DIRT FOR LATER METER INSTALLATION BY IRISH WATER.
10. BOX TO BE FOUNDED ON 100mm DEPTH OF C12/15 CONCRETE AND SURROUNDED WITH CLAUSE 808 GRANULAR MATERIAL.
11. THE DESIRABLE MINIMUM COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN OF A SERVICE CONNECTION SHALL BE 750mm WITH AN ABSOLUTE MINIMUM DEPTH OF 600mm FOR SHORT DISTANCES (SUBJECT TO IRISH WATER AGREEMENT). THE DESIRABLE MAXIMUM COVER FOR A SERVICE CONNECTION PIPE SHOULD BE 1200mm, WHERE PRACTICABLE.
12. WHERE A GRASS VERGE IS NOT AVAILABLE AND A FOOTPATH IS LESS THAN 1.5m WIDE, THE WATERMAIN IS PERMITTED ON THE ROADWAY.
13. WHERE A GRASS VERGE IS NOT AVAILABLE AND A FOOTPATH IS LESS THAN 1.5m WIDE, THE WATERMAIN IS PERMITTED ON THE ROADWAY.
14. THE POSITION OF THE METER DOES NOT REPRESENT THE CHANGE OF OWNERSHIP IN THE SERVICE PIPE, THAT POINT IS NORMALLY AT THE PROPERTY BOUNDARY.
15. THE BOUNDARY BOX ACCOMMODATES INLINE ROTARY PISTON METERS UP TO SIZE DN32mm WITH THREADED ENDS.



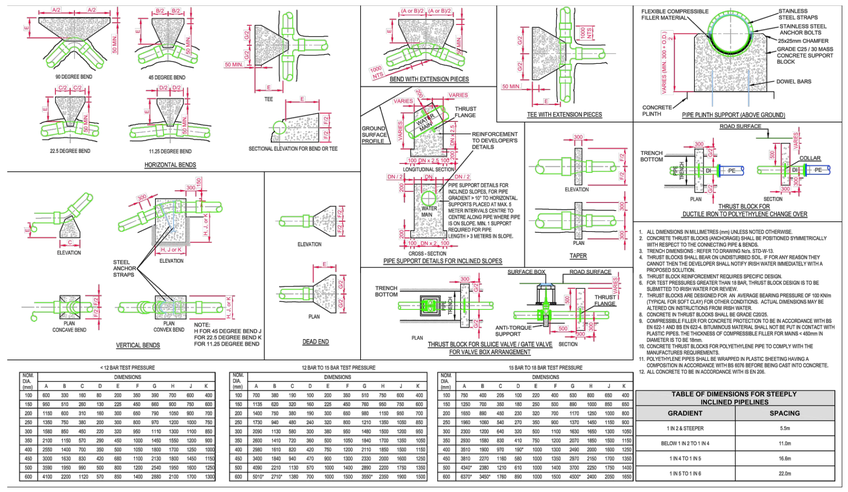

SECTION




PLAN

25-32mm O.D. Ø INLINE WATER METER CHAMBER DETAILS

STD-W-26G INLINE FLOW METER CHAMBER (25-32mm O.D. DIA.)




| < 12 BAR TEST PRESSURE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOM. DIA. (mm) | DIMENSIONS | | | | | | | | | |
| | A | B | C | D | E | F | G | H | J | K |
| 100 | 850 | 350 | 160 | 80 | 200 | 350 | 350 | 700 | 600 | 400 |
| 150 | 950 | 510 | 260 | 130 | 225 | 450 | 550 | 900 | 750 | 600 |
| 200 | 1150 | 600 | 310 | 160 | 300 | 650 | 790 | 1050 | 900 | 700 |
| 250 | 1350 | 750 | 380 | 200 | 300 | 800 | 970 | 1200 | 1000 | 750 |
| 300 | 1380 | 850 | 450 | 230 | 320 | 950 | 1110 | 1300 | 1100 | 850 |
| 350 | 2100 | 1150 | 570 | 290 | 450 | 1000 | 1450 | 1550 | 1200 | 900 |
| 400 | 2050 | 1400 | 700 | 350 | 500 | 1300 | 1650 | 1700 | 1350 | 1050 |
| 450 | 3000 | 1630 | 830 | 420 | 680 | 1100 | 2130 | 1800 | 1450 | 1150 |
| 500 | 3390 | 1950 | 890 | 500 | 800 | 1200 | 2540 | 1950 | 1600 | 1250 |
| 600 | 4150 | 2200 | 1120 | 570 | 850 | 1400 | 2880 | 2150 | 1750 | 1350 |

| 12 BAR TO 15 BAR TEST PRESSURE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOM. DIA. (mm) | DIMENSIONS | | | | | | | | | |
| | A | B | C | D | E | F | G | H | J | K |
| 100 | 760 | 380 | 190 | 100 | 200 | 350 | 510 | 750 | 600 | 400 |
| 150 | 1135 | 620 | 320 | 160 | 225 | 450 | 760 | 950 | 750 | 600 |
| 200 | 1400 | 790 | 380 | 190 | 300 | 650 | 980 | 1100 | 900 | 700 |
| 250 | 1730 | 940 | 480 | 240 | 320 | 800 | 1270 | 1350 | 1000 | 850 |
| 300 | 2090 | 1130 | 580 | 300 | 380 | 950 | 1480 | 1650 | 1200 | 950 |
| 350 | 2600 | 1410 | 720 | 360 | 500 | 1050 | 1940 | 1750 | 1300 | 1000 |
| 400 | 2990 | 1610 | 820 | 420 | 750 | 1300 | 2110 | 1850 | 1350 | 1150 |
| 450 | 3400 | 1840 | 940 | 470 | 900 | 1300 | 2330 | 2000 | 1600 | 1250 |
| 500 | 4090 | 2210 | 1130 | 570 | 1000 | 1400 | 2890 | 2200 | 1750 | 1350 |
| 600 | 5010* | 2710* | 1380 | 700 | 1000 | 1500 | 3500* | 2350 | 1950 | 1550 |

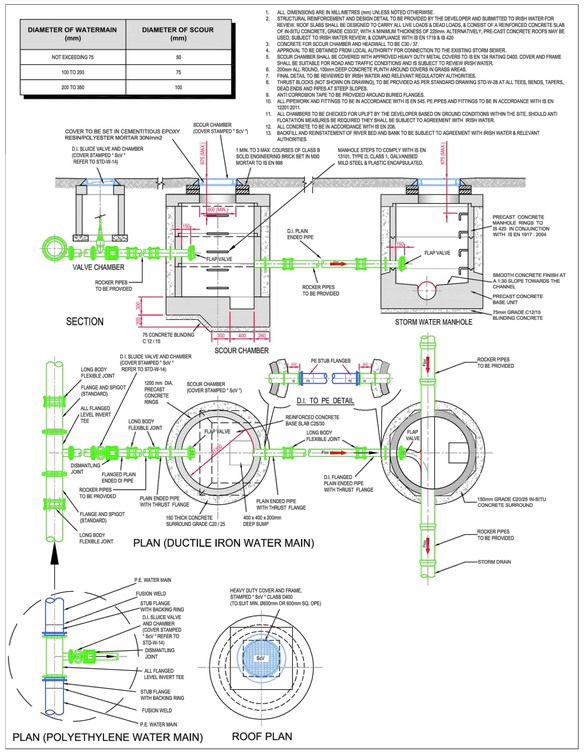
| 15 BAR TO 18 BAR TEST PRESSURE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOM. DIA. (mm) | DIMENSIONS | | | | | | | | | |
| | A | B | C | D | E | F | G | H | J | K |
| 100 | 790 | 400 | 206 | 100 | 220 | 400 | 600 | 800 | 650 | 400 |
| 150 | 1250 | 750 | 380 | 180 | 250 | 600 | 850 | 1000 | 850 | 600 |
| 200 | 1650 | 880 | 480 | 230 | 320 | 700 | 1170 | 1250 | 1000 | 800 |
| 250 | 1980 | 1080 | 540 | 270 | 350 | 800 | 1270 | 1450 | 1150 | 800 |
| 300 | 2300 | 1250 | 640 | 330 | 500 | 1100 | 1650 | 1650 | 1300 | 1050 |
| 350 | 2930 | 1580 | 830 | 410 | 750 | 1200 | 2070 | 1850 | 1500 | 1150 |
| 400 | 3510 | 1900 | 970 | 190* | 1000 | 1300 | 2440 | 2000 | 1650 | 1250 |
| 450 | 3810 | 2270 | 1160 | 580 | 1000 | 1350 | 2970 | 2100 | 1700 | 1350 |
| 500 | 4340* | 2390 | 1210 | 610 | 1000 | 1400 | 3700 | 2250 | 1750 | 1400 |
| 600 | 6370* | 3450* | 1760 | 890 | 1000 | 1500 | 4200* | 2450 | 2000 | 1550 |

| TABLE OF DIMENSIONS FOR STEEPLY INCLINED PIPELINES | |
|---|---|
| GRADIENT | SPACING |
| 1 IN 2 & STEEPER | 5.5m |
| BELOW 1 IN 2 TO 1 IN 4 | 11.0m |
| 1 IN 4 TO 1 IN 5 | 16.6m |
| 1 IN 5 TO 1 IN 6 | 22.0m |

STD-W-28 WATER MAIN THRUST AND SUPPORT BLOCKS

| DIAMETER OF WATERMAIN (mm) | DIAMETER OF SCOUR (mm) |
|---|---|
| NOT EXCEEDING 75 | 50 |
| 100 TO 200 | 75 |
| 200 TO 350 | 100 |

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. 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 423
3. CONCRETE FOR SCOUR CHAMBER AND HEADWALL TO BE C30 / 37.
4. APPROVAL TO BE OBTAINED FROM LOCAL AUTHORITY FOR CONNECTION TO THE EXISTING STORM SEWER.
5. SCOUR CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME STAMPED " SUV " TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TIES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES. COVER AND FRAME TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TIES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
6. 350mm ALL ROUND, 150mm DEEP CONCRETE PLINTH AROUND COVERS IN GRASS AREAS.
7. FINAL DETAIL TO BE REVIEWED BY IRISH WATER AND RELEVANT REGULATORY AUTHORITIES.
8. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TIES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
9. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
10. ALL PIPEWORK AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
11. 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.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
13. BACKFILL AND REINSTATEMENT OF WASH BED AND BANK TO BE SUBJECT TO AGREEMENT WITH IRISH WATER & RELEVANT AUTHORITIES.




STD-W-30B SCOUR CHAMBER TO STORM SEWER ARRANGEMENTS

PLANNING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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE

| REVISION | DATE | DESCRIPTION | REV BY | CHK BY |
|---|---|---|---|---|
| A | 23.04.21 | ISSUED FOR PLANNING | SC | SS |
| B | 14.05.21 | ISSUED FOR PLANNING | SC | SS |
| C | 01.02.22 | REISSUED FOR PLANNING | SG | SOR |


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| | |
|---|---|
| PROJECT | STRATEGIC HOUSING DEVELOPMENT AT BALLYMANY |
| CLIENT | BRIARGATE DEVELOPMENTS NEWBRIDGE LIMITED |
| TITLE | WATER MAIN DETAILS<br>SHEET 2 of 2 |

| Director | Proj. Eng. | Drawn by | DRG. No. | REV |
|---|---|---|---|---|
| SOR | SS | SC | D1920-MAL-00-XX-C-030 | C |
| Scale N/A | Checked SS | Date FEB '21 | | |

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