NOTES:

- 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2 THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE EXTERNAL CROWN OF THE PIPE SHALL BE 750mm FOR SERVICE CONNECTIONS, 900mm FOR WATER MAINS. 8 SHOULD MINIMUM COVER NOT BE ACHIEVABLE, GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING MATERIAL MAY BE REQUIRED WHERE HIGH TRAFFIC LOADING IS ANTICIPATED. THE
- MAXIMUM COVER SHOULD NOT EXCEED 1.2M WHERE PRACTICABLE. 3 CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE WATER MAIN IS LOCATED IN ROADS, THE TRENCH IS WITHIN 1M OF THE PAVED
- 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm FOOTPATHS OR WHEN THE NEAREST PART OF EDGE OF THE ROADWAY, CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS.
- 4 SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO THE APPROVAL OF IRISH WATER.
- 5 PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm GRADED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 13242.
- 6 IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED OUT AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING, ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER
- BEFORE ADVANCING WITH THE WORK. 7 PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW

THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 MATERIAL IN INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL

DEPTH OF BEDDING

'C' (mm)

150

200

TRENCH WIDTH

'B' (mm)

< SEE NOTE 10.

500

600

600

750

750

750

900

900

DEPTH OF REINSTATED TOPSOIL TO MATCH

SELECTED BACKFILL

REFER TO NOTE 4

REFER TO NOTE 9

FOR DETAILS

MARKER TAPE.

FOR DETAILS.

PIPE BEDDING.

FOR DETAILS.

REFER TO NOTE 5

BACKFILL REFER

TO NOTE 3 FOR

MARKER TAPE. REFER TO NOTE 9

FOR DETAILS.

PIPE BEDDING. REFER TO NOTE 5 FOR DETAILS.

- PIPE MATERIAL TO BE 'PE80 SDR17'

(FUSION WELDED) TO IRISH WATER SPECIFICATIONS OR SIMILAR APPROVED

DETAILS

- PIPE MATERIAL TO BE 'PE80 SDR17'

(FUSION WELDED) TO IRISH WATER

SPECIFICATIONS OR SIMILAR APPROVED

EXISTING

ACCORDANCE WITH THE TRANSPORT

BACKFILL MATERIAL.

REQUIREMENTS.

SHALL BE LAID ABOVE THIS VOID BACKFILL

9 MARKER TAPE TO BE 400mm WIDE BLUE

POLYETHYLENE MATERIAL IN ACCORDANCE

WITH EN 12163, PLASTIC PIPES SHALL HAVE

BAND BRACING WIRE, SERVICE PIPES SHALL

WARNING TAPE INCORPORATED A REINFORCED

HAVE 200mm WIDE MESH TAPE. MARKER TAPE

TO BE LAID AT TOP OF PIPE BEDDING LAYER.

MAY BE <500mm, SUBJECT TO CONSIDERATION

BEING GIVEN TO THE TRENCH DEPTH, HEALTH

& SAFETY & CONSTRUCTION ACCESS

PIPE DIAMETER

'A' (mm)

< 200

> 250

< 80

100

150

200

250

300

350

400

450

GRASSED AREAS

PIPE DIA 'A'

MINIMUM TRENCH WIDTH 'B'

CROSS SECTION IN GRASSED AREAS

ROAD/FOOTPATH SURFACE

MINIMUM TRENCH WIDTH 'B'

CROSS SECTION IN ROADS

(STD - W - 13) SCALE 1:20

TRENCH BACKFILL AND BEDDING

PIPE DIAMETER

'A' (mm)

CONCRETE GRADE C8/10 SHALL BE USED AS

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm)
 - UNLESS NOTED OTHERWISE. 2. STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR
 - 3. CONCRETE FOR FLOW METER CHAMBER TO 7 BE C30/37
 - 4. PRECAST METER CHAMBER(WITH CONCRETE 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN
 - WATER APPROVAL. 12201: 2011. 5. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO 9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT IS EN206.

D.I. FLANGED PLAIN-

SLUICE

VALVE

DL FLANGED

DISMANTLING

TAPER

400x400x200

DEEP SUMP

WATER TIGHT SEAL -

CAST IN RECESSED LIFTING _

HEAVY DUTY COVER AND FRAME _ STAMPED "Me" CLASS D400 TO IS EN124 (TO SUIT 900 SQ. OPE) 1No. MIN. OR 3No. COURSES MAX. OF CLASS B

ENGINEERING BRICKWORK SET IN C50/60 MORTAR

CONCRETE ROOF SLAB_

C30/37 REINFORCED

CONCRETE SLAB

EYES

ENDED PIPE WITH

THRUST FLANGE

(CUT TO SUIT)

ROCKER PIPE -

LONG BODY

LONG BODY

LONG BODY

FLEXIBLE COUPLING

FLEXIBLE COUPLING

FLEXIBLE COUPLING

HFAVY DUTY COVER AND FRAME

STAMPED "Me" CLASS D400 TO IS -

EN124 (TO SUIT 900 SQ. OPE)

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

IS EN124 RATING D400. COVER AND FRAME BY THE DEVELOPER BASED ON GROUND SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE

APPROVAL OF IRISH WATER. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND

DISMANTLING JOINT —

FLOW METER (WITH_ RESTRAINER IF

REQUIRED)

<u>SECTION</u>

FLANGED PLAIN

ENDED DI PIPE

FLOW METER (WITH

25mm O.D. TAPPING

TO BE PROVIDED

10xPIPEØ MIN. FROM FLOW METER TO DISMANTLING JOINT (ENTRY)

FLOOR PLAN

5xPIPEØ MIN. FROM FLOW METER TO DISMANTLING JOINT (EXITING)

RESTRAINER IF REQUIRED)

PRESSURE TAPPING DUCT TO KIOSK TO BE

INSTALLED WITH DRAW CORD(REFER TO_____

STD-W-36) DUCT END TO BE SEALED

COVER IN GRASS AREAS. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

SURROUND) MAY BE USED SUBJECT TO IRISH ACCORDANCE WITH IS EN545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN

FLOATATION 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

CONDITIONS WITHIN THE SITE, SHOULD ANTI

VALVES, FITTINGS AND PIPEWORK.

 \bullet \bullet

DETAIL AS PER INLET

CONCRETE CAST

IN-SITU CRADLE

THICKENED FLOOR

SLAB UNDER SUMP

DETAIL AS PER INLET

THRUST FLANGE

CABLE DUCT TO KIOSK TO BE INSTALLED

∼WITH DRAW CORD (REFER TO STD-W-36

DUCT END TO BE SEALED

11. ALL CONCRETE TO BE IN ACCORDANCE WITH

- COVER TO BE SET AS

PER MANUFACTURERS

75mm CONCRETE

SPECIFICATION

COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. ROAD AND TRAFFIC CONDITIONS AND IS UPSTREAM AND DOWNSTREAM OF THE METER SUBJECT TO THE APPROVAL OF IRISH TO BE PROVIDED. IF THE METER IS NOT WATER CAPABLE OF ACCURATE NIGHT FLOW MEASUREMENTS, A BY-PASS FLOW METER SHALL BE PROVIDED WITH APPROPRIATE

3. SLUICE VALVES SHALL BE RESILIENT SEATED 5163-2, IS EN 1074-1, IS EN 1074-2, OR

(mm) UNLESS NOTED OTHERWISE.

2. SLUICE VALVE CHAMBERS SHALL BE

- EQUIVALENT EU SPECIFICATIONS. 4. ALL SLUICE VALVES SHALL BE
- ANTI-CLOCKWISE CLOSING. 5. VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER.
- 6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13.

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

CONCRETE BASE C25/30

LONG BODY —

FLEXIBLE COUPLING

CUT TO SUIT

FLANGED/PLAIN ENDED PIPE —

FLANGED SLUICE VALVE —

HEAVY DUTY COVER AND-

FRAME, STAMPED 'SV' CLASS

0400 (TO SUIT 445x280 OPE)

7. DUCTILE IRON PIPES AND FITTINGS TO BE IN NOTES: ACCORDANCE WITH IS EN 545. 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

PLINTH IN GRASSED AREAS

<u>SECTION</u>

+----+

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

SLUICE VALVE CHAMBER

(STD - W - 14)

SCALE 1:20

- 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN
- COVER AND FRAME SHALL BE SUITABLE FOR 9. THRUST BLOCKS(NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT
- STEEP SLOPES. AND SHALL COMPLY WITH BS 5163-1. BS 10. ANTICORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
 - 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206
 - 12. ALL THRUST FLANGES TO BE ADEQUATELY RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY

- STAINLESS STEEL

- COVER TO MANUFACTURERS

SPECIFICATION

— EXTENSION SPINDLE

- PRECAST CONCRETE

- REFER TO STD-W-13

─ DISMANTLING JOINT

- CONCRETE SUPPORT

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

FOR BEDDING DETAILS

UNITS (REFER TO NOTE 5)

METAL BAND

NOTES: 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

- (mm) UNLESS NOTED OTHERWISE.
- 2. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. COVER AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER
- 3. ALL HYDRANTS, SURFACE BOX FRAMES AND COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS TO BE PROVIDED AS PER STANDARD EN 1074-6 & BS 750. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET
- SHALL BE 80mm DIAMETER WITH PN16. 4. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

C30/37 REINFORCED SLAB

CONCRETE ROOF SLAB

DI DOUBLE FLANGED DN80, 50 -

HEAVY DUTY COVER-

AND FRAME, STAMPED

SUIT 445x280 OPE)

'FH' CLASS D400 (TO

CONCRETE BASE C25/30

RISER PIPE OF SUITABLE

LENGTH TO SUIT CONDITIONS

PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK, ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER.

- 6. CONCRETE CHAMBERS SHALL BE
 - SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER
- 7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. AND FRAME SHALL BE SUITABLE FOR ROAD 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL
 - METAL BAND AROUND COVER IN GREEN 9. THRUST BLOCKS(NOT SHOWN ON DRAWING)
 - DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES. 10. ANTICORROSION TAPE TO BE PROVIDED
 - AROUND BURIED FLANGES.

200 | 445 | 200

_+----+-

PLINTH IN GRASSED AREAS

SECTION

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

FIRE HYDRANT CHAMBER

(STD - W - 16) SCALE 1:20

5. VALVE CHAMBER TO BE CONSTRUCTED OF 11. ALL CONCRETE TO BE IN ACCORDANCE WITH

STAINLESS STEEL

METAL BAND

_ COVER TO

MANUFACTURERS

PRECAST CONCRETE

∼ REFER TO STD-W-13

DUCTILE IRON

TEE WITH FLANGED

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

06.04.2020

SOCKETED

BRANCH

FOR BEDDING DETAILS

UNITS (REFER TO NOTE 5

SPECIFICATION

WITH FLANGES DRILLED TO PN 16 IN ACCORDANCE WITH BS EN 1092. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR ESCAPE ORIFICE WITH AN ISOLATING 12. THE LOCATION OF THE AIR VALVE SHALL BE

NOTES:

1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

(mm) UNLESS NOTED OTHERWISE.

2. AIR VALVE CHAMBERS SHALL BE COVERED

WITH APPROVED VENTILATED HEAVY DUTY

ROAD AND TRAFFIC CONDITIONS AND IS

SUBJECT TO THE APPROVAL OF IRISH

REQUIREMENTS OF IS EN 1074-4. AIR

VALVES SHALL BE DOUBLE ORIFICE TYPE

AND SHALL INCLUDE AN ISOLATING VALVE.

THE ISOLATING VALVE SHALL BE A GATE

VALVE CONFORMING TO IS EN 1074-2 AND

SHALL BE OF A BOLTLESS BONNET DESIGN

COVERS OF CAST IRON TO BS EN 1563

4. THE AIR VALVES SHALL OF BODIES AND

3. AIR VALVES SHALL COMPLY WITH THE

METAL COVERS TO IS EN 124 RATING D400.

COVER AND FRAME SHALL BE SUITABLE FOR

5. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE

VALVE.

LOCATION

CONCRETE UNITS OR HIGH DENSITY

- THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVE IS ELIMINATED;.

BLOCKWORK. ALTERNATIVE PROPRIETARY

BE USED, SUBJECT TO APPROVAL FROM

PRECAST CONCRETE CHAMBERS SHALL BE

COMPACTED CLAUSE 808 MATERIAL AS PER

SURROUNDED BY A MINIMUM OF 150mm

8. DUCTILE IRON PIPES AND FITTINGS TO BE IN

CONCRETE PLINTH WITH PROTECTIVE STEEL

METAL BAND AROUND COVER IN GREEN

10. THRUST BLOCKS(NOT SHOWN ON DRAWING)

DRAWING STD-W-28 AT ALL TEES AND

BENDS, TAPERS, DEAD ENDS AND PIPES AT

TO BE PROVIDED AS PER STANDARD

11. ANTICORROSION TAPE TO BE PROVIDED

AROUND BURIED FLANGES.

ACCORDANCE WITH IS EN 545.

9. 200mm ALL AROUND, 100mm DEEP

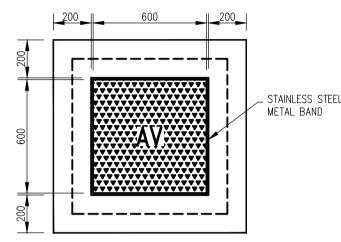
STD-WW-13.

STEEP SLOPES.

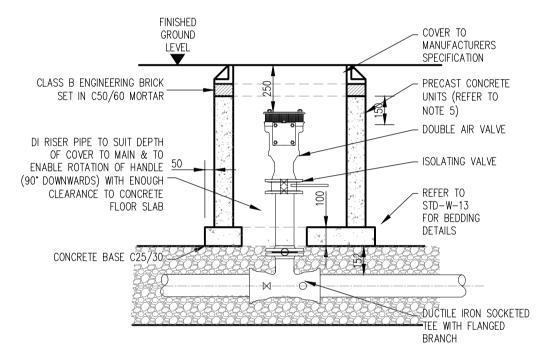
PREFABRICATED CHAMBER UNITS MAY ALSO

6. AIR VALVE CHAMBERS TO BE OF PRECAST

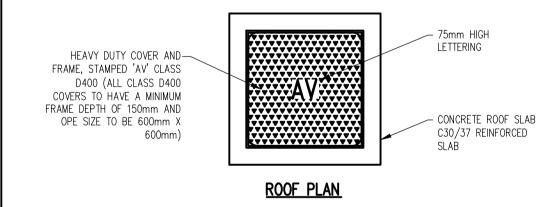
13. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206

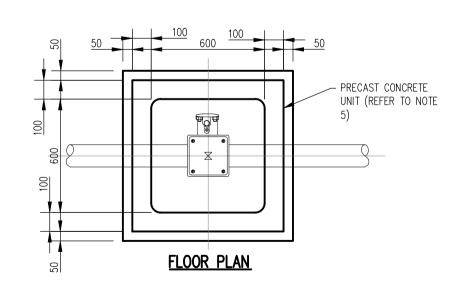


PLINTH IN GRASSED AREAS



SECTION





AIR VALVE CHAMBER (PRECAST CONCRETE CONSTRUCTION) (STD - W - 20)

PLANNING DRAWING.

METER CHAMBER (<300mmø)

(STD - W - 26)

NOT FOR CONSTRUCTION.

ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

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The Shoreline Partnership Alterations to Shoreline GA01 Lands at Baldoyle WATERMAIN DETAILS SHEET 1 OF 2 BD-CSC-ZZ-XX-DR-C-0010

OS AS SHOWN @ A1

NB

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