VOID FILLED WITH CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE TRANSPORT ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL

FINISHED SURFACE TO THE EXTERNAL CROWN OF THE PIPE SHALL BE 750mm FOR SERVICE MATERIAL 8 SHOULD MINIMUM COVER NOT BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL.

9 MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE MAXIMUM COVER SHOULD NOT EXCEED 1.2M WITH EN 12163, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATED A REINFORCED 3 CLAUSE 808 MATERIAL IN ACCORDANCE WITH BAND BRACING WIRE. SERVICE PIPES SHALL THE TRANSPORT INFRASTRUCTURE IRELAND HAVE 200mm WIDE MESH TAPE. MARKER TAPE SPECIFICATION FOR ROAD WORKS IS TO BE TO BE LAID AT TOP OF PIPE BEDDING LAYER. 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm

FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1M OF THE PAVED EDGE OF THE ROADWAY, CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE

4 SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO THE

MATERIAL SHALL BE 14mm TO 5mm GRADED

6 IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED OUT AND WASTE MANAGEMENT ACT AND CLAUSE 808 REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING, ALTERNATIVELY, EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER

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 INFRASTRUCTURE IRELAND SPECIFICATION FOR

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

FOR DETAILS

FOR DETAILS.

FOR DETAILS.

MARKER TAPE.

PIPE BEDDING.

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

REFER TO NOTE 9

FXISTING

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

400

450

PIPE DIAMETER

'A' (mm)

REQUIREMENTS.

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) 2. STRUCTURAL DESIGN AND REINFORCEMENT

3. CONCRETE FOR FLOW METER CHAMBER TO 7 BE C30/37

ROCKER PIPE -

LONG BODY

LONG BODY

LONG BODY

FLEXIBLE COUPLING

FLEXIBLE COUPLING

FLEXIBLE COUPLING

UNLESS NOTED OTHERWISE.

4. PRECAST METER CHAMBER(WITH CONCRETE 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN

AND SUBMITTED TO IRISH WATER FOR

WATER APPROVAL. 12201: 2011. 5. METER CHAMBER SHALL BE COVERED WITH

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

> ENGINEERING BRICKWORK SET IN C50/60 MORTAR

MAX. OF CLASS B

CONCRETE ROOF SLAB_

C30/37 REINFORCED CONCRETE SLAB

EYES

ENDED PIPE WITH

THRUST FLANGE

(CUT TO SUIT)

HEAVY 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 DETAIL TO BE PROVIDED BY THE DEVELOPER CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND 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

DISMANTLING JOINT —

FLOW METER (WITH_ RESTRAINER IF

FLOW

FLANGED PLAIN

ENDED DI PIPF

FLOW METER (WITH

25mm O.D. TAPPING

TO BE PROVIDED

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

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

FLOOR PLAN

_____+

ROOF PLAN

RESTRAINER IF REQUIRED)

PRESSURE TAPPING DUCT TO KIOSK TO BE

INSTALLED WITH DRAW CORD(REFER TO_____

STD-W-36) DUCT END TO BE SEALED

REQUIRED)

<u>SECTION</u>

VALVES, FITTINGS AND PIPEWORK. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH APPROVED HEAVY DUTY METAL COVERS TO 9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT IS EN206.

-

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

SHALL BE PROVIDED WITH APPROPRIATE

PER MANUFACTURERS

75mm CONCRETE

SPECIFICATION

CONDITIONS WITHIN THE SITE, SHOULD ANTI 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 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

3. SLUICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1. BS 10. ANTICORROSION TAPE TO BE PROVIDED 5163-2, IS EN 1074-1, IS EN 1074-2, OR

EQUIVALENT EU SPECIFICATIONS. 4. ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING. - COVER TO BE SET AS

NOTES:

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

6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

CONCRETE ROOF 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

D400 (TO SUIT 445x280 OPE)

C30/37 REINFORCED SLAB

STD-W-13.

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

(mm) UNLESS NOTED OTHERWISE. 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL 2. SLUICE VALVE CHAMBERS SHALL BE METAL BAND AROUND COVER IN GREEN COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR 9. THRUST BLOCKS(NOT SHOWN ON DRAWING)

PLINTH IN GRASSED AREAS

SECTION

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

SLUICE VALVE CHAMBER

<u>(STD - W - 14)</u>

SCALE 1:20

TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.

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

UNITS (REFER TO NOTE 5)

- REFER TO STD-W-13

FOR BEDDING DETAILS

─ DISMANTLING JOINT

- CONCRETE SUPPORT

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

METAL BAND

APPROVAL FROM IRISH WATER.

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 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.

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) RELEVANT PROVISIONS OF IS EN 14339, IS TO BE PROVIDED AS PER STANDARD 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

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

FIRE HYDRANT CHAMBER

(STD - W - 16)

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

C30/37 REINFORCED SLAB

RISER PIPE OF SUITABLE

LENGTH TO SUIT CONDITIONS

CONCRETE ROOF SLAB

DI DOUBLE FLANGED DN80, 50

CONCRETE BASE C25/30

HEAVY DUTY COVER-

AND FRAME, STAMPED

SUIT 445x280 OPE)

'FH' CLASS D400 (TO

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

FOR BEDDING DETAILS

— DUCTILE IRON

SOCKETED

BRANCH

TEE WITH FLANGED

- CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

13.10.2020

UNITS (REFER TO NOTE 5)

SPECIFICATION

4. THE AIR VALVES SHALL OF BODIES AND COVERS OF CAST IRON TO BS EN 1563 STEEP SLOPES. WITH FLANGES DRILLED TO PN 16 IN ACCORDANCE WITH BS EN 1092. EACH VALVE SHALL HAVE A LARGE AND A SMALL

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

VALVE.

(mm) UNLESS NOTED OTHERWISE.

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

3. AIR VALVES SHALL COMPLY WITH THE

NOTES:

6. AIR VALVE CHAMBERS TO BE OF PRECAST

13. ALL CONCRETE TO BE IN ACCORDANCE WITH CONCRETE UNITS OR HIGH DENSITY

PREFABRICATED CHAMBER UNITS MAY ALSO 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES BE USED, SUBJECT TO APPROVAL FROM

2. AIR VALVE CHAMBERS SHALL BE COVERED PRECAST CONCRETE CHAMBERS SHALL BE WITH APPROVED VENTILATED HEAVY DUTY SURROUNDED BY A MINIMUM OF 150mm METAL COVERS TO IS EN 124 RATING D400.

BLOCKWORK. ALTERNATIVE PROPRIETARY

STD-WW-13.

COMPACTED CLAUSE 808 MATERIAL AS PER

CONCRETE PLINTH WITH PROTECTIVE STEEL

METAL BAND AROUND COVER IN GREEN

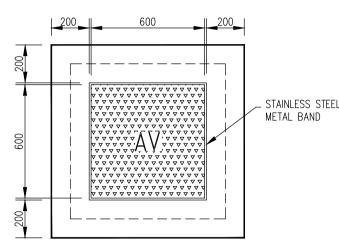
COVER AND FRAME SHALL BE SUITABLE FOR 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. 9. 200mm ALL AROUND, 100mm DEEP

10. THRUST BLOCKS(NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD SHALL BE OF A BOLTLESS BONNET DESIGN DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT

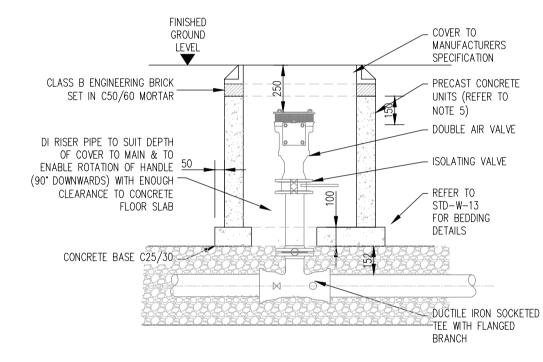
> 11. ANTICORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

AIR ESCAPE ORIFICE WITH AN ISOLATING 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;.

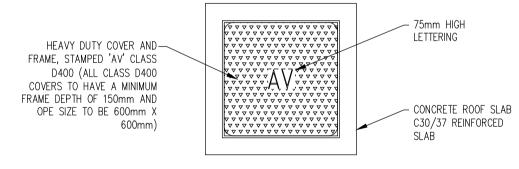
IS EN 206



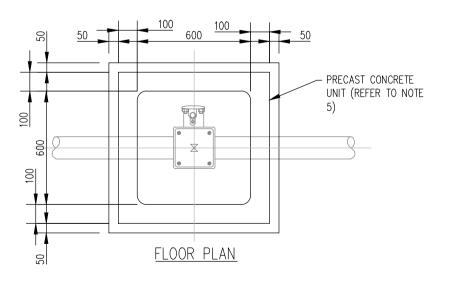
PLINTH IN GRASSED AREAS



SECTION



ROOF PLAN



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

PLANNING DRAWING.

METER CHAMBER (<300mmø)

(STD - W - 26)

SCALE 1: 20

RELATIVE TO ORDNANCE DATUM THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED

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For setting out refer to Architect's drawings. This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.

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Rev. No. Date REVISION NOTE Drn. By Chkd. By

Henry J. Lyons GA03 Project Shoreline, Baldoyle. WATERMAIN DETAILS BD-CSC-ZZ-G3-DR-C-0113

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DUBLIN | LONDON | LIMERICK Head Office 19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863 e: info@csconsulting.ie w: www.csconsulting.ie

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