- 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2 THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE EXTERNAL CROWN SHALL BE LAID ABOVE THIS VOID BACKFILL OF THE PIPE SHALL BE 750mm FOR SERVICE MATERIAL CONNECTIONS, 900mm FOR WATER MAINS. 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 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm WATER MAIN IS LOCATED IN ROADS, MAY BE <500mm, SUBJECT TO CONSIDERATION 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 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 ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL

8 SHOULD MINIMUM COVER NOT BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL

HAVE 200mm WIDE MESH TAPE. MARKER TAPE

TO BE LAID AT TOP OF PIPE BEDDING LAYER.

BEING GIVEN TO THE TRENCH DEPTH, HEALTH

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

- MARKER TAPE.

FOR DETAILS.

PIPE BEDDING.

FOR DETAILS.

REFER TO NOTE 5

BACKFILL. REFER

TO NOTE 3 FOR

DETAILS

- MARKER TAPE. REFER TO NOTE 9

FOR DETAILS.

PIPE BEDDING. REFER TO NOTE 5 FOR DETAILS.

REFER TO NOTE S

EXISTING.

& SAFETY & CONSTRUCTION ACCESS

PIPE DIAMETER

'A' (mm)

< 200

PIPE DIAMETER

'A' (mm)

> 250

< 80

100

150

200

250

300

350

400

450

GRASSED AREAS

MINIMUM TRENCH WIDTH 'B'

CROSS SECTION IN GRASSED AREAS

ROAD/FOOTPATH SURFACE

PIPE DIA 'A'

MINIMUM TRENCH

WIDTH 'B'

TRENCH BACKFILL AND BEDDING

CROSS SECTION IN ROADS

 $\frac{(STD - W - 13)}{SCALE 1:20}$ 

REQUIREMENTS.

BE C30/37 9 MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE SURROUND) MAY BE USED SUBJECT TO IRISH WITH EN 12163, PLASTIC PIPES SHALL HAVE WATER APPROVAL. WARNING TAPE INCORPORATED A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL

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—

ENDED PIPE WITH

VALVE

DI 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

MAX. OF CLASS B

IN C50/60 MORTAR

CONCRETE ROOF SLAB \_

C30/37 REINFORCED CONCRETE SLAB

THRUST FLANGE

(CUT TO SUIT)

ROCKER PIPE -

LONG BODY

LONG BODY FLEXIBLE COUPLING

LONG BODY

FLEXIBLE COUPLING

FLEXIBLE COUPLING

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm)

2. STRUCTURAL DESIGN AND REINFORCEMENT

AND SUBMITTED TO IRISH WATER FOR

DETAIL TO BE PROVIDED BY THE DEVELOPER

UNLESS NOTED OTHERWISE.

IS EN124 RATING D400. COVER AND FRAME 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 COVER IN GRASS AREAS.

3. CONCRETE FOR FLOW METER CHAMBER TO 7. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

4. PRECAST METER CHAMBER(WITH CONCRETE 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN545. PE PIPES AND

12201: 2011.

HEAVY DUTY COVER AND FRAME

EN124 (TO SUIT 900 SQ. OPE)

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

STAMPED "Me" CLASS D400 TO IS

FITTINGS TO BE IN ACCORDANCE WITH IS EN

DISMANTLING JOINT —

FLOW METER (WITH RESTRAINER IF

REQUIRED)

SECTION

ENDED DI PIPE

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

RESTRAINER IF REQUIRED)

PRESSURE TAPPING DUCT TO KIOSK TO BE

INSTALLED WITH DRAW CORD(REFER TO-

STD-W-36) DUCT END TO BE SEALED

ACCOMMODATE THE REQUIRED RANGE OF

DETAIL AS PER INLET

N-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) |

10. PIPEWORK TO BE DOWNSIZED TO

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. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH

- COVER TO BE SET AS

PER MANUFACTURERS

75mm CONCRETE

BLINDING C12/15

SPECIFICATION

## BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM

(mm) UNLESS NOTED OTHERWISE. 2. SLUICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH

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. 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

CONCRETE BASE C25/30

LONG BODY —

FLEXIBLE COUPLING

CUT TO SUIT FLANGED SLUICE VALVE -

FLANGED/PLAIN ENDED PIPE —/

HEAVY DUTY COVER AND-

FRAME, STAMPED 'SV' CLASS

D400 ( TO SUIT 445x280 OPE)

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

C30/37 REINFORCED SLAB

CONCRETE ROOF SLAB

7. DUCTILE IRON PIPES AND FITTINGS TO BE IN 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

ACCORDANCE WITH IS EN 545. 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

STAINLESS STEEL

COVER TO MANUFACTURERS

SPECIFICATION

— EXTENSION SPINDLE

- REFER TO STD-W-13

─ DISMANTLING JOINT

- CONCRETE SUPPORT

75mm HIGH

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

LETTERING

FOR BEDDING DETAILS

UNITS (REFER TO NOTE 5)

— PRECAST CONCRETE

METAL BAND

BENDS, TAPERS, DEAD ENDS AND PIPES AT

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

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 FRAME SHALL BE SUITABLE FOR ROAD 8. 200mm ALL AROUND, 100mm DEEP 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 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

APPROVAL FROM IRISH WATER.

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 STD-W-13.

DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.

DRAWING STD-W-28 AT ALL TEES AND

BENDS, TAPERS, DEAD ENDS AND PIPES AT

CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN 9. THRUST BLOCKS(NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD

- STAINLESS STEEL

METAL BAND

COVER TO

MANUFACTURERS

SPECIFICATION

STEEP SLOPES. 10. ANTICORROSION TAPE TO BE PROVIDED

AROUND BURIED FLANGES. 5. VALVE CHAMBER TO BE CONSTRUCTED OF 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206

4. THE AIR VALVES SHALL OF BODIES AND COVERS OF CAST IRON TO BS EN 1563 WITH FLANGES DRILLED TO PN 16 IN 11. ANTICORROSION TAPE TO BE PROVIDED ACCORDANCE WITH BS EN 1092. EACH

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

3. AIR VALVES SHALL COMPLY WITH THE

METAL COVERS TO IS EN 124 RATING D400.

COVER AND FRAME SHALL BE SUITABLE FOR

VALVE SHALL HAVE A LARGE AND A SMALL

5. SERVICE CONNECTIONS SHALL NOT BE

LOCATION. 6. AIR VALVE CHAMBERS TO BE OF PRECAST

CONCRETE UNITS OR HIGH DENSITY

OF COVER TO MAIN & TO

PROVIDED WITHIN 2m OF THE AIR VALVE

SHALL BE OF A BOLTLESS BONNET DESIGN DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.

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

— ISOLATING VALVE

BLOCKWORK. ALTERNATIVE PROPRIETARY

BE USED, SUBJECT TO APPROVAL FROM

PRECAST CONCRETE CHAMBERS SHALL BE

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)

TO BE PROVIDED AS PER STANDARD

ACCORDANCE WITH IS EN 545.

9. 200mm ALL AROUND, 100mm DEEP

COMPACTED CLAUSE 808 MATERIAL AS PER

IRISH WATER

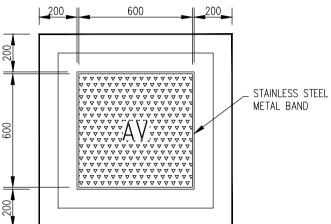
STD-WW-13.

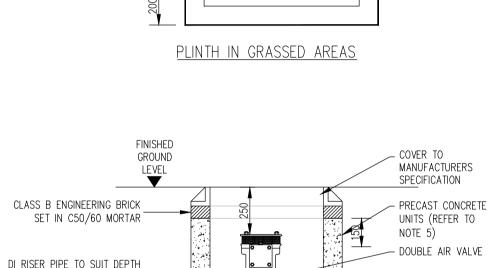
PREFABRICATED CHAMBER UNITS MAY ALSO

13. ALL CONCRETE TO BE IN ACCORDANCE WITH

VALVE IS ELIMINATED;.

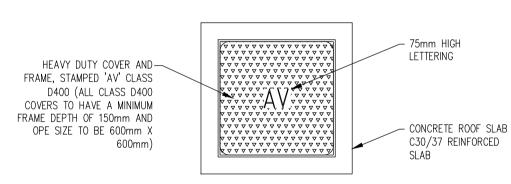
IS EN 206



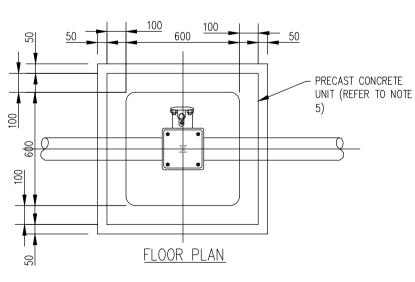


ENABLE ROTATION OF HANDLE  $\frac{50}{200}$ (90° DOWNWARDS) WITH ENOUGH -CLEARANCE TO CONCRETE STD-W-13FLOOR SLAB FOR BEDDING DETAILS TEE WITH FLANGED

<u>SECTION</u>



ROOF PLAN



AIR VALVE CHAMBER (PRECAST CONCRETE CONSTRUCTION)

# PLANNING DRAWING. NOT FOR CONSTRUCTION.

METER CHAMBER (<300mmø)

(STD - W - 26)

SCALE 1:20

ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM. PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES For setting out refer to Architect's drawings.

ROOF PLAN

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# CONCRETE ROOF SLAB C30/37 REINFORCED SLAB PRECAST CONCRETE UNITS (REFER TO NOTE 5) DI DOUBLE FLANGED DN80. 50 RISER PIPE OF SUITABLE - REFER TO STD-W-13 LENGTH TO SUIT CONDITIONS FOR BEDDING DETAILS CONCRETE BASE C25/30 SOCKETED TEE WITH FLANGED SECTION 75mm HIGH HEAVY DUTY COVER-AND FRAME, STAMPED 'FH' CLASS D400 ( TO SUIT 445x280 OPE) CONCRETE ROOF SLAB C30/37 REINFORCED SLAB ROOF PLAN PRECAST CONCRETE UNITS (REFER TO NOTE 5)

PLINTH IN GRASSED AREAS

FINISHED

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

PRECAST CONCRETE UNITS (REFER TO NOTE 5) FLOOR PLAN

ROOF PLAN

PLINTH IN GRASSED AREAS

<u>SECTION</u>

SLUICE VALVE CHAMBER (PRECAST CONCRETE CONSTRUCTION) (STD - W - 14)

FLOOR PLAN

FIRE HYDRANT CHAMBER (PRECAST CONCRETE CONSTRUCTION)  $\frac{(STD - W - 16)}{SCALE 1:20}$ 

(STD - W - 20)SCALE 1:20

THIS DRAWING HAS BEEN ISSUED FOR INFORMATION

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