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. GREATER DEPTHS OF COVER AND/OR PIPE
- 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 CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRICULTURE RICLAND SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKILL MATERIAL WHERE THE WATER MANN IS LOCATED IN ROADS, FOOTPARTHS OR WHEN THE MEASEST PART OF THE TRENCH IS WITHIN MI OF THE PAYED EDGE OF THE ROADWAY CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE
- 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.
- APPROVAL OF INSIN WATER.

 PIPE BEDDING SHALL COMPLY WITH WIS

 4-08-02 AND ION 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 (GBR < 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 AN GEO-TEXTURE WRAPPING, ATTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, MICLIONIS PHONE ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE, SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSIMANT BY WISH MATERIAL 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

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 MATERIA SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

HAVE 200mm WIDE MESH TAPE. MARKER TAPE TO BE LAID AT TOP OF PIPE BEDDING LAYER.

DEPTH OF BEDDING

200

TRENCH WIDTH

'B' (mm)

SEE NOTE 10.

600

600

750 750

750

900

900

DEPTH OF REINSTATED TOPSOIL TO MATCH EXISTING.

- BACKFILL. REFER TO NOTE 3 FOR DETAILS

PIPE DIAMETER

'A' (mm)

> 250

150 200

250

300 350

400

450

PIPE DIAMETER

'A' (mm)

- CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL.
- 9 MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12163, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATED A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL WATER APPROVAL.

LONG BODY FLEXIBLE COUPLING

LONG BODY_ FLEXIBLE COUPLING

LONG BODY FLEXIBLE COUPLING

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm)

STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR

AROUND BURIED FLANGES. PRECAST METER CHAMBER(WITH CONCRETE SURROUND) MAY BE USED SUBJECT TO IRISH
 ACCORDANCE WITH IS EN545. PE PIPES AND ACCORDANCE WITH IS EN545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN

HEAVY DUTY COVER AND FRAME STAMPED "Me" CLASS D400 TO IS-EN124 (TO SUIT 900 SQ. OPE)

WATER TIGHT SEAL

CAST IN RECESSED LIFTING _ EYES

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 MORTA CONCRETE ROOF SLAB C30/37 REINFORCED CONCRETE SLAB

METER CHAMBER (<300mmø) (STD - W - 26) SCALE 1:20

COVER IN GRASS AREAS. 3. CONCRETE FOR FLOW METER CHAMBER TO 7. ANTI CORROSION TAPE TO BE PROVIDED APPLIANCE AND INDICATE AND INDICA

FLOW METER (WITH

SECTION

FLOW METER (WIT

PRESSURE TAPPING DUCT TO KIOSK TO BE INSTALLED WITH DRAW CORD(REFER TO-STD-W-36) DUCT END TO BE SEALED

0

0

FLOOR PLAN

ROOF PLAN

DETAIL AS PER INLE

CABLE DUCT TO KIOSK TO BE INSTALLED

WITH DRAW CORD (REFER TO STD-W-30

DUCT END TO BE SEALED

0

0

200mm ALL ROUND, 100mm DEEP

10. PIPEWORK TO BE DOWNSIZED TO STAINLESS STEEL METAL BAND AROUND

VALVES, FITTINGS AND PIPEWORK,

11. ALL CONCRETE TO BE IN ACCORDANCE WITH

- COVERED WITH APPROVED HEAVY DUTY
 METAL COVERS TO IS 261 OR BS 5834.
 COVER AND FRAME SHALL BE SUITABLE FOR 9ROAD AND TRAFFIC CONDITIONS AND IS PREMIUM TO BE DOWNSZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE METER TO BE PROVIDED. IF THE METER IS NOT SUBJECT TO THE APPROVAL OF IRISH ABLE OF ACCURATE NIGHT FLOW SUREMENTS, A BY-PASS FLOW METER SHALL BE PROVIDED WITH APPROPRIATE
 - 3. SLUICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1, BS 5163-2, IS EN 1074-1, IS EN 1074-2, OR

(mm) UNLESS NOTED OTHERWISE.

2. SLUICE VALVE CHAMBERS SHALL BE

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

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

- 8. 200mm ALL AROUND, 100mm DEEP METAL BAND AROUND COVER IN GREEN
- THRUST BLOCKS(NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD DRAINING 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
- . 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. HYDRANT CHAMBERS SHALL BE COVERED
- HTDRANT CHAMBERS SHALL BE COVERED
 WITH APPROVED HEAVY DUTY METAL.
 COVERS TO IS 261 OR 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 AND COVERS SHALL COMPLY WITH THE 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 10. ANTICORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- COUNTY, TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK, ALTERNATIVELY PROPRETARY PREFABRICATED CHAMBER UNITS BMY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER.
- 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

CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN

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

ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206

4

SECTION

ROOF PLAN

50 100 600 100 50

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

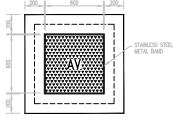
FIRE HYDRANT CHAMBER

PRECAST CONCRETE
UNITS (REFER TO NOTE 5

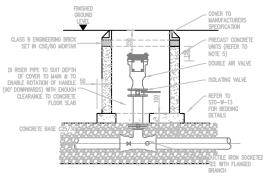
ACCORDANCE WITH IS EN 545.

- 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED 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 THE APPROVAL OF IRISH
- 3. AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE ORIFICE TYPE THE ISOLATING VALVE SHALL BE A GATE SHALL BE OF A BOLTLESS BONNET DESIGN
- SHALL BE OF A BOLTLESS BONNET DESIGN
 THE AIR VALVES SHALL OF BODIES AND
 COMERS OF CAST IRON TO BS EN 1563
 WITH FLANGES BRILLED TO PN 16 IN
 ACCORDANCE WITH BS EN 1092. EACH
 VALVE SHALL HAVE A LARGE AND A SMALL
 AIR ESCAPE ORIFICE WITH AN ISOLATING
 VALVE.

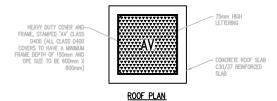
- BLOCKWORK, ALTERNATIVE PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH WATER.
 - PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm
- COMPACTED CLAUSE 808 MATERIAL AS PER
- DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN AREAS.
- . 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.
- 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 FLIMINATED:
- ALL CONCRETE TO BE IN ACCORDANCE WITH

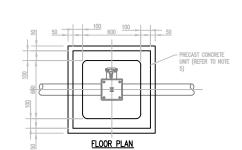


PLINTH IN GRASSED AREAS



<u>SECTION</u>



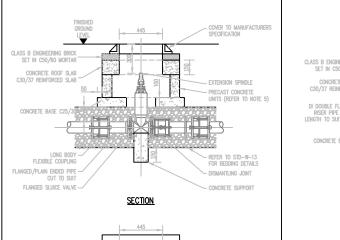


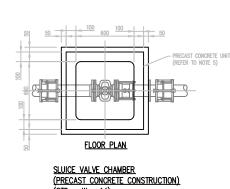
AIR VALVE CHAMBER (PRECAST CONCRETE CONSTRUCTION)

B098-009

CS Consulting Group

200 | 445 | 200 | PLINTH IN GRASSED AREAS PLINTH IN GRASSED AREAS





PRECAST CONCRETE UNITS (REFER TO NOTE 5)

....SV....

ROOF PLAN

TRENCH BACKFILL AND BEDDING

CROSS SECTION IN ROADS

PIPE DIA 'A'

CROSS SECTION IN GRASSED AREAS

(STD - W - 13) SCALE 1:20

PLANNING DRAWING NOT FOR CONSTRUCTION THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY

CIRCUMSTANCES



Bartra Property (Eblana) Limited The Old School House, Eblana Avenue Dun Laoghaire, County Dublin WATERMAIN DETAILS