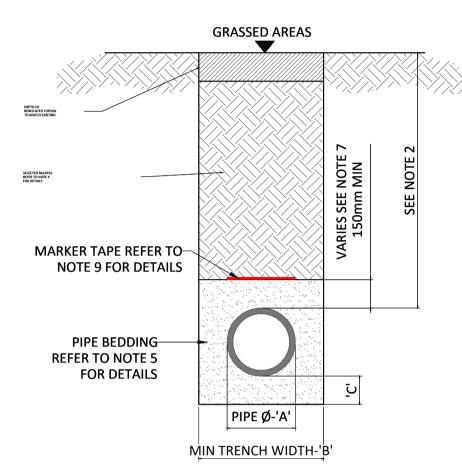


PIPE BEDDING DETAILS NON TRAFFICKED AREAS LESS THAN 900mm TO PIPE CROWN

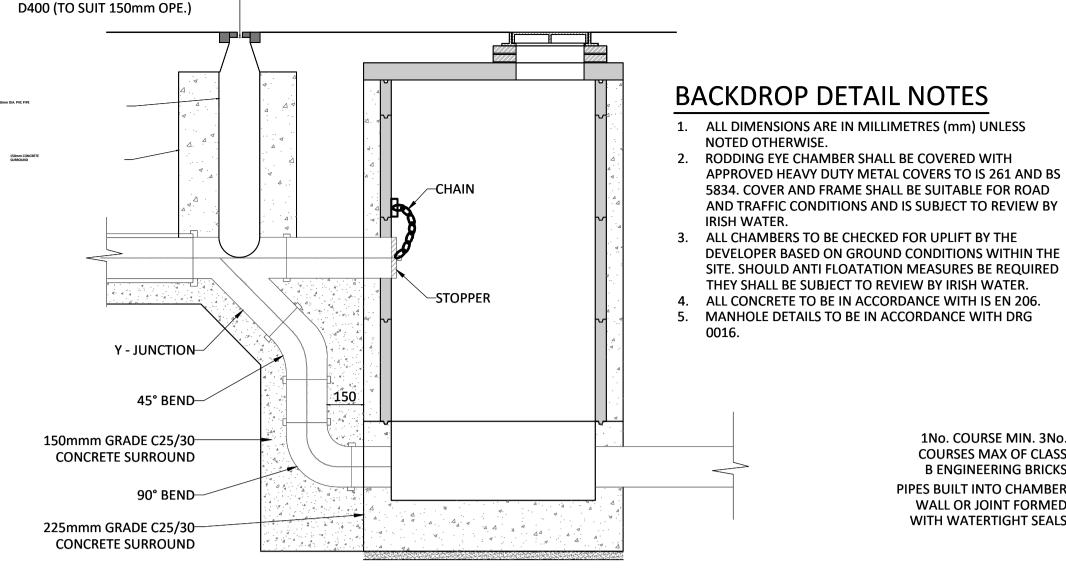


PIPE BEDDING DETAILS NON TRAFFICKED AREAS **GREATER THAN 900mm TO PIPE CROWN**

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C'(mm)
≤200	150
≥ 250	200

PIPE BEDDING NOTES

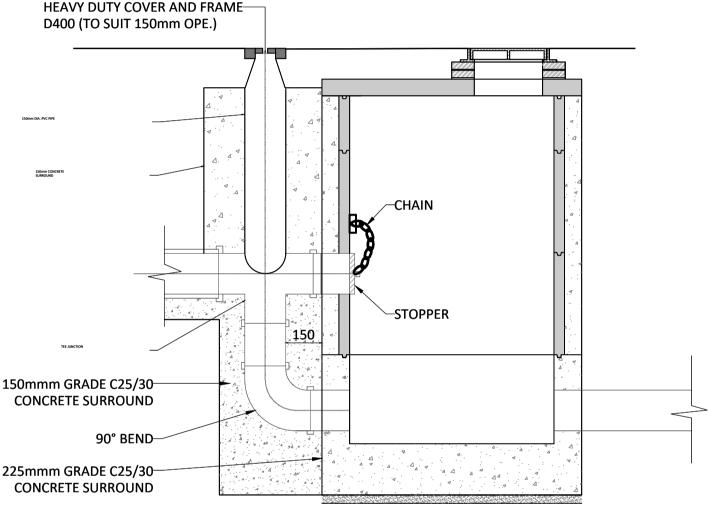
- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF
- **GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:** A. GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS DEPTH NOT LESS THAN 0.5 M. (THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY, SHALLOW PIPES OF THIS NATURE ARE UNDESIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING
- B. DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES -DEPTH NOT LESS THAN 0.75 M.
- C. DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G. MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS
- VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES DEPTH NOT LESS THAN 0.9 M. D. DEPTHS OF SEWERS IN GATED ESTATES SHALL BE SIMILAR TO THAT OUTLINED
- AGRICULTURAL LAND AND PUBLIC OPEN SPACE DEPTH NOT LESS THAN 0.9 M. OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN
- 3. CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE SEWER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 / 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. CLAUSE 808 IS TO BE USED WITHIN 500mm OF CEMENT BOUND MATERIALS, CONCRETE PAVEMENTS, CONCRETE STRUCTURES OR CONCRETE PRODUCTS. OTHERWISE CLAUSE 804 MAY BE USED. ALTERNATIVE BACKFILL MATERIAL TO THAT DESCRIBED ABOVE (CLAUSE 804 OR CLAUSE 808) OF THE PIPE TRENCH WILL ONLY BE ALLOWED BY IRISH WATER WHERE THE ROADS AUTHORITY IN WHOSE FUNCTIONAL AREA THE DEVELOPMENT IS LOCATED, PROVIDES WRITTEN APPROVAL TO THE DEVELOPER TO THE USE SUCH
- 4. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO REVIEW BY IRISH WATER.
- 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. CONCRETE BED, HAUNCH & SURROUND, WHERE REQUIRED. SHALL BE MIN 150mm C16/20 CONCRETE ALL ROUND.
- IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY 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. IN GREEN FIELD AREAS, TYPE B BACKFILL (SELECTED EXCAVATED MATERIAL) WILL BE ALLOWED ABOVE THE SIDE HAUNCH GRANULAR MATERIAL IN THE CASE OF RIGID PIPES. A GRANULAR SURROUND OF A MINIMUM DEPTH OF 150mm ABOVE THE CROWN OF THE PIPE IS REQUIRED FOR FLEXIBLE PIPES, AND TYPE B MATERIAL MAY BE USED AS BACKFILL ABOVE THIS. ALL RISING MAINS IN GREENFIELD AREAS SHALL HAVE A MINIMUM COVER OF 300mm OF GRANULAR MATERIAL ABOVE THE EXTERNAL CROWN OF THE PIPE.
- PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR ANY HARD OBJECTS 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 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
- NON DEGRADABLE MARKER TAPE SHOULD BE INSTALLED AT TOP OF PIPE BEDDING LAYER. IN THE CASE OF NON METAL PIPE MATERIAL, THE MARKER TAPE SHOULD INCORPORATE A TRACE WIRE WHICH IS LINKED TO FITTINGS AND TERMINATED AT THE WASTE WATER PUMPING STATION AND THE DISCHARGE MANHOLE.
- 10. TRENCH WIDTHS FOR PIPE SIZES ≤80mm MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.
- 11. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS
- 12. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND



HEAVY DUTY COVER AND FRAME-

TYP. BACKDROP DETAIL TYPE No.1

150mm-450mm DIA. (INCL.) DROP GREATER THAN 1700mm 500mm-900mm DIA. (INCL.) DROP GREATER THAN 2300mm **SCALE 1:20**

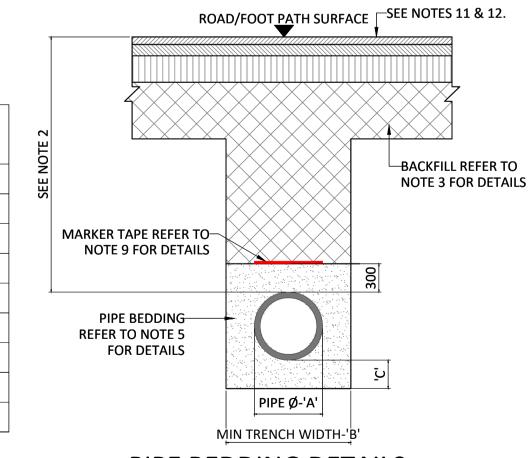


TYP. BACKDROP DETAIL TYPE No.2

150mm-450mm DIA. (INCL.) DROP GREATER THAN 900 AND LESS THAN 1700mm 500mm-900mm DIA. (INCL.) DROP GREATER THAN 1300 AND LESS THAN 2300mm **SCALE 1:20**

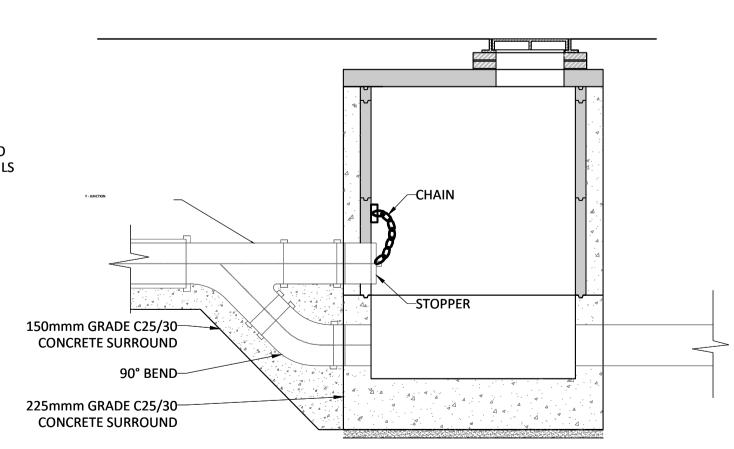
ROAD/FOOT PATH SURFACE SEE NOTES 11 & 12. 出 MARKER TAPE REFER TO-**NOTE 9 FOR DETAILS** BACKFILL REFER TO NOTE 3 FOR DETAILS PIPE BEDDING-**REFER TO NOTE 5** FOR DETAILS PIPE Ø-'A' MIN TRENCH WIDTH-'B

.S	PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C'(mm)
	≤80	SEE NOTE 10
	100	500
	150	600
	200	600
	250	750
	300	750
	350	750
	400	900
	450	900



PIPE BEDDING DETAILS TRAFFICKED AREAS GREATER THAN 1200mm TO PIPE CROWN

Rev No. Date Revision Note



TYP. BACKDROP DETAIL TYPE No.3

Drn by Chkd by

150mm-450mm DIA. (INCL.) DROP GREATER THAN 600 AND LESS THAN 900mm 500mm-900mm DIA. (INCL.) DROP GREATER THAN 600 AND LESS THAN1300mm **SCALE 1:20**





Dublin | London | Belfast | Galway | Cork | Birmingham

INSPECTION CHAMBER NOTES

LOCATIONS.

CLAUSE 808 MATERIAL.

COVER TO BE SET AS-

SPECIFICATION

PER MANUFACTURERS

FLOW

COVER TO BE SET AS-

SPECIFICATION

PER MANUFACTURERS

FLOW

FLOW

1No. COURSE MIN. 3No.

COURSES MAX OF CLASS

WALL OR JOINT FORMED

REFER TO PIPE BEDDING

1No. COURSE MIN. 3No.

COURSES MAX. OF CLASS

PIPES BUILT INTO CHAMBER-

WALL OR JOINT FORMED

WITH WATERTIGHT SEALS

REFER TO PIPE BEDDING

DETAILS

225mm PRECSAT BASE OR-

225mm IN-SITU CONCRETE C25/30

B ENGINEERING BRICKS

DETAILS

225mm IN-SITU CONCRETE C25/30

225mm PRECSAT BASE OR-

WITH WATERTIGHT SEALS

PIPES BUILT INTO CHAMBER

B ENGINEERING BRICKS

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE

AN INSPECTION CHAMBER SHOULD BE LOCATED AT OR WITHIN 1m OF THE PROPERTY

OF THE CURTILAGE, IF PRACTICABLE, CONSULT WITH IRISH WATER ON ALTERNATIVE

3. ANY PIPE AND ASSOCIATED ACCESS UPSTREAM OF THE POINT OF CONNECTION TO A PUBLIC SEWER IS A PRIVATE DRAIN AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE

4. ACCESS POINTS SHOULD BE LOCATED SO THAT THEY ARE ACCESSIBLE AND APPARENT TO THE

MAINTAINER AT ALL TIMES FOR USE. THEY SHOULD AVOID REAR GARDENS OR ENCLOSED

LOCATIONS AND THEY SHOULD NEVER BE OVERLAIN WITH SURFACE DRESSING, TOPSOIL,

5. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO

6. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.

7. PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO REVIEW BY

8. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 804 OR

SEALED MANHOLE COVER TO SUIT

600mmx600mm CLEAR OPENING

600mm

PRECAST UNITS

SEALED MAHOLE COVER TO SUIT IS

600mm x 600mm CLEAR OPENING

EN 124 LOADING MINIMUM

(REFER TO NOTE 7.)

-50mm CROSS FALL

SECTION

BENCHING

FLOOR PLAN

INSPECTION CHAMBER

(PRECAST CONCRETE CONSTRUCTION)

-50mm CROSS FALL

SECTION

BENCHING

FLOOR PLAN

INSPECTION CHAMBER

(BLOCKWORK CONSTRUCTION)

-MINIMUM INTERNAL

DIMENSION 600mm

DIAMETER OR

PRECAST UNITS

MINIMUM INTERNAL

DIMENSIONS 600mm

-215 THICK 20 N/mm²

DIAMETER OR 600x600mm

CONCRETE BLOCK WORK IN

ACCORDANCE WITH ISEN 771-3

(REFER TO NOTE 7.)

600x600mm

IS EN 124 LOADING MINIMUM

BOUNDARY AT THE UPSTREAM END OF EACH SERVICE CONNECTION ON THE PRIVATE SIDE

CORK COUNTY COUNCIL Project: RESIDENTIAL DEVELOPMENT CROSSHAVEN, LOWER ROAD DRAINAGE DETAILS SHEET 1 OF 3

Code | Originator | Zone | Level | Type | Role | Number | Status | Revision C1003 OCSC - XX - XX - SK - C -0012 A1 C01 Date: 04/04/22Scale: A/S @ A1 Drn by:CW Chkd by:CM Aprvd by:JMcB

FLOW_

EN 771-3

-215 THICK 20N/mm²

CONCRETE BLOCKWORK

IN ACCORDANCE WITH IS



North Point House, North Point Business Park, New Mallow Road,

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PIPE BEDDING DETAILS TRAFFICKED AREAS

LESS THAN 1200mm TO PIPE CROWN

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- Rev No. Date Revision Note CW CM C01 20/10/22 ISSUED FOR PLANNING