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Diagram illustrating a cross section of a trench with various layers and dimensions:

- ROADFOOT PATH SURFACE** (Top layer)
- BACKFILL REFER TO NOTE 3 FOR DETAILS** (Layer above bedding)
- MARKER TAPE REFER TO NOTE 8 FOR DETAILS** (Layer below backfill)
- PIPE BEDDING REFER TO NOTE 5 FOR DETAILS** (Layer below marker tape)
- PIPE DIAMETER - "N"** (Dimension of the pipe)
- MINIMUM TRENCH WIDTH - "W"** (Overall width of the trench)
- Dimensions:**
 - SEE NOTE 8 (Total depth)
 - 300MM (Backfill layer thickness)
 - 150 (Bedding layer thickness)
- CROSS SECTION IN ROADWAYS** (Caption)

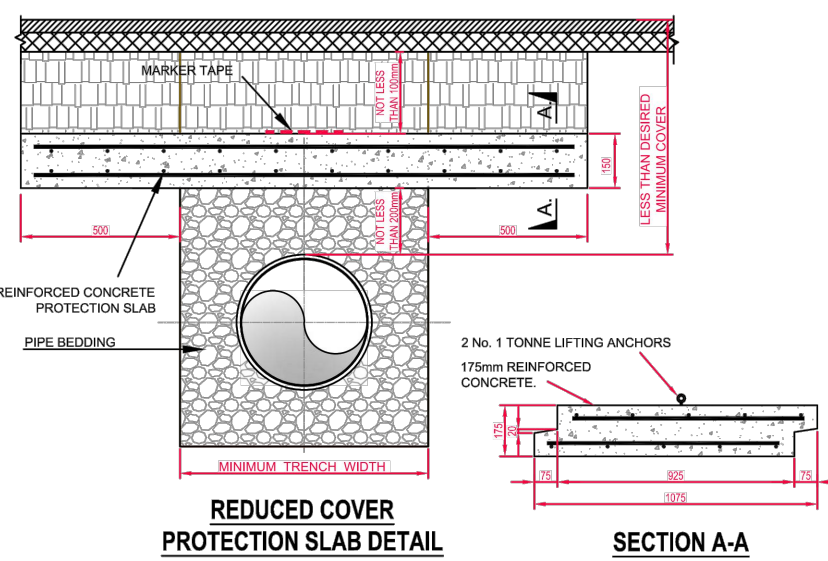
Diagram illustrating the cross-section of a trench structure, showing various layers and dimensions:

- GRASSED AREAS** (Top layer)
- DEPTH OF REINTEGRATED TOPSOIL TO MATCH EXISTING** (Layer below grassed areas)
- SELECTED BACKFILL REFER TO NOTE 4 FOR DETAILS** (Layer below topsoil)
- MANHOLE TYPIC REFER TO NOTE 8 FOR DETAILS** (Circular structure within the backfill)
- PIPE BEDDING REFER TO NOTES FOR DETAILS** (Layer below the manhole)
- PIPE DIAMETER - 'A'** (Dimension of the pipe)
- MINIMUM TRENCH WIDTH - 'B'** (Overall width of the trench)
- SEE NOTE 2** (Vertical dimension on the left side)
- VARIATION** (Vertical dimension on the left side, indicating depth of backfill)
- 150** (Vertical dimension on the left side, indicating height of the manhole)
- 150** (Vertical dimension on the left side, indicating height of the pipe bedding)

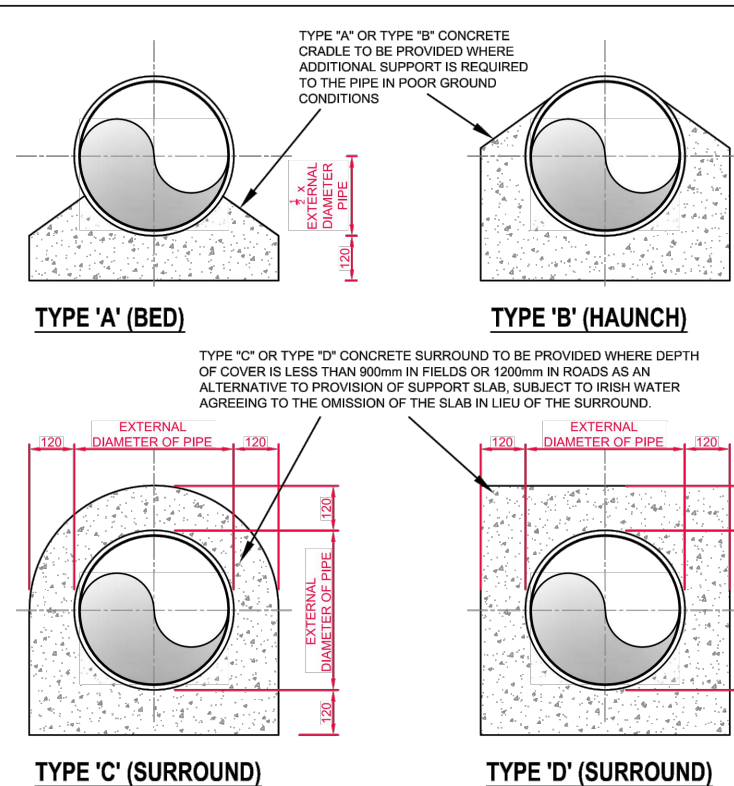
[illegible]

PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
≤ 80 RISING MAIN	SEE NOTE 10.
100	500
150 - 200	800
>200 - 300	750
>300 - 400	900

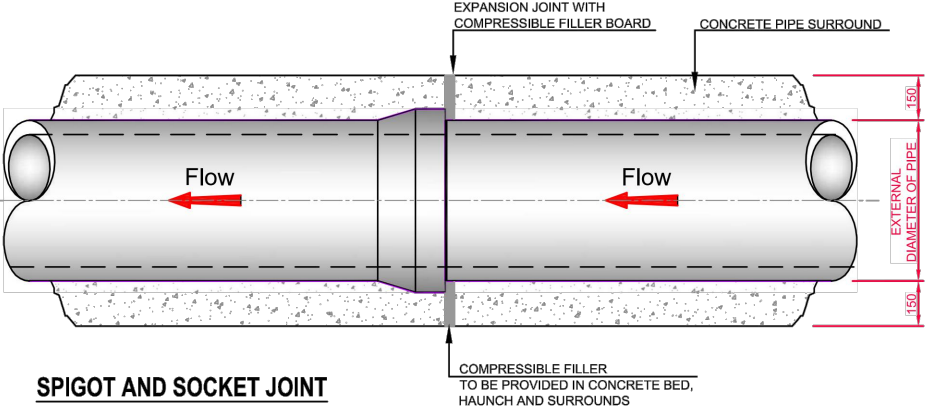
PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
≤100	100
150 - 450	200



SECTION A-A



TYPE 'D' (SURROUND)



COMPRESSIBLE FILLER
TO BE PROVIDED IN CONCRETE BED,
MANHOLE AND SURROUND

7. FOR ANY SLABMING WORKS TO BE CARRIED OUT WITHIN THE VICINITY OF THE PIPELINE, A METHOD STATEMENT IS TO BE SUBMITTED FOR REVIEW BY RISH WATER.
 8. MARKER TAPE IS TO BE PLACED ABOVE THE SLAB AND ALONG THE DIRECTION OF THE PIPELINE
 9. CONCRETE TO BE GRAD 3205
 10. MINIMUM COVER TO SLAB REINFORCEMENT =40mm
 11. SLABS TO BE DESIGNED FOR USE UNDER A MOD (LOAD IN ACCORDANCE WITH BS 8001) AND ARE TO BE SUBMITTED TO RISH WATER FOR AN ASSURMENT PRIOR TO INSTALLATION
 12. THE SOIL ON WHICH THE SLAB RESTS MUST HAVE A CBR OF 4% OR GREATER WHERE THE CBR IS LESS THAN 4% THE MATERIAL SHALL BE REMOVED AND REPLACED BY IMPORTED GRANULAR MATERIAL, AS APPROVED BY RISH WATER.
 13. IF DIRECTION OF PIPELINE AND DIRECTION OF TRAFFIC FLOW ARE IN THE SAME DIRECTION, THE SLAB IS TO BE ADJACENT THE DIRECTION OF TRAFFIC FLOW
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14. IF PIPELINE PROTECTION SLAB IS TO BE USED SOLELY FOR IMPACT PROTECTION A OVERALL DEPTH OF COVER IS GREATER THAN 120% OF THE SLAB THICKNESS. THE SLAB & TOP OF PIPE MAY BE INCREASED AFTER CONSULTATION WITH RISH WATER.

9. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
10. CONCRETE BED AND HAUNCHES MAY BE REQUIRED TO PROVIDE ADEQUATE SUPPORT FOR POLE FOUNDING CONDITIONS. PROPOSER IS TO PROVIDE TO INCHARGE WATER BY GEO-TECHNICAL REPORT. (SEE ATTACHED)
11. CONCRETE SURROUNDS SHALL HAVE A MINIMUM THICKNESS OF 150mm with an ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE OF 750mm.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH BS EN 206 and TO BE GRADE C25/30.
13. THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK TO PROVIDE A ROUND CAST FINISH.
14. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL 10M INTERVALS. JOINTS TO BE IN ACCORDANCE WITH BS EN 12401-1. COMPRESSIBLE REBOUND TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4.
15. POLYETHYLENE AND uPVC PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6878 BEFORE BEING CAST INTO CONCRETE.
16. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH THE POLYETHYLENE OR uPVC.

STD-WW-08 CONCRETE PROTECTION SLAB, BED, HAUNCH, AND SURROUND, TO WASTEWATER PIPES

Rev. No.	Date	REVISION NOTE	Dr. By	Chkd. By
P1	10.01.2025	DRAFT Issue to EIA/R Coordinator	SC	JF
P2	21.02.2025	DRAFT Issue to EIA/R Coordinator	SC	JF
P3	24.02.2025	DRAFT Planning Pack	SC	JF
P4	12.03.2025	Issued for Irish Water Design Acceptance	SC	JF
P5	31.03.2025	Issued for Planning	SC	JF

Architect	DTA				
Project	Kishoghe Part 10 Application				
Title	Site 4 Proposed Drainage Details Sheet 3 of 4				
Dwg. No.	KSG4-CSC-XX-XX-DR-C-0007				
Date	Dim by	Chkd by	Apprd by, Scale		Revision
Sept. '24	SC	JF	OS	AS SHOWN @ A1	P5

CS Consulting Group

DUBLIN | LONDON | LIMERICK

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



Quality	IS. EN ISO 9001:2008
Environment	IS. EN ISO 14001:2004
Energy	IS. EN ISO 50001:2011
Health & Safety	OHSAS 18001:2007

