

STD-WW - 04 TYPICAL SEWER/SERVICE PIPE CONNECTION

- 2. AS FAR AS PRACTICABLE, JUNCTIONS AND SERVICE CONNECTIONS SHALL BE BUILT IN FOR ALL PLANNED USERS WHEN THE SEWER IS BEING CONSTRUCTED. WHERE IT IS NECESSARY TO MAKE A POST-CONSTRUCTION CONNECTION THE DEVELOPER SHALL BRING THE SERVICE CONNECTION TO THE INSPECTION CHAMBER, INSTALL THE INSPECTION CHAMBER AND SEAL THE UPSTREAM END UNTIL THE UNLESS NOTED OTHERWISE.
- 3. THE VERTICAL ANGLE BETWEEN THE SERVICE CONNECTING PIPE AND THE HORIZONTAL SHALL BE WITHIN THE ACCEPTABLE RANGE OF 30° to 90°.
- 4. WHERE THE SERVICE PIPE CONNECTION WITHIN THE FOOTPRINT OF THE SELF LAY AGREEMENT IS BEING MADE TO A SEWER WITH A NOMINAL INTERNAL DIAMETER OF 300mm DIAMETER OR LESS, CONNECTIONS SHALL BE MADE USING 45" ANGLE JUNCTIONS.
- 5. WHERE THE CONNECTION IS BEING MADE TO A SEWER WITH A NOMINAL INTERNAL DIAMETER GREATER THAN 300mm, THE FOLLOWING SHALL APPLY:

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE

- A. WHERE THE DIAMETER OF THE CONNECTING PIPE IS GREATER THAN HALF THE DIAMETER OF THE SEWER, AN ACCESS MANHOLE SHALL BE CONSTRUCTED TO FORM THE CONNECTION POINT; OR,
 - REGULATIONS).
 - VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.75m. C. DRIVEWAYS, PARKING AREAS AND NARROW

2 THE MINIMUM DEPTH OF COVER FROM THE

GRAVITY PIPES WITHOUT PROTECTION SHOULD

POSSIBILITY OF VEHICULAR ACCESS - DEPTH

RELATE TO DRAINS IN PRIVATE PROPERTY,

ACCORDANCE WITH THE CURRENT BUILDING

NOT LESS THAN 0.5M (THIS WOULD NORMALLY

UNDESIRABLE AND SHOULD BE INSTALLED IN

FINISHED SURFACE TO THE CROWN OF

A. GARDENS AND PATHWAYS WITHOUT ANY

SHALLOW PIPES OF THIS NATURE ARE

BE AS FOLLOWS:

- STREETS WITHOUT FOOTWAYS (EG MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS
- D. DEPTHS OF SEWERS IN GATED ESTATES SHALL 8 PIPES SHALL NOT BE SUPPORTED ON STONES, BE SIMILAR TO THAT OUTLINED ABOVE.
- E. AGRICULTURAL LAND AND PUBLIC OPEN SPACE DEPTH NOT LESS THAN 0.9m. F. 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 1.2m.

- 3 CLAUSE 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 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE NATIONAL ROADS AUTHORITY 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. CONCRETE BED, HAUNCH & SURROUND, WHERE REQUIRED, SHALL BE TO STD-WW-08.

- 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) 6 IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE
- ADVANCING WITH THE WORK. B. DRIVEWAYS, PARKING AREAS AND YARDS WITH 7 IN GREEN FIELD AREAS, TYPE B BACKFILL HEIGHT RESTRICTIONS TO PREVENT ENTRY BY (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.

WRAPPING, ALTERNATIVELY, SPECIAL PIPE

SOFT MATERIAL IS EXCESSIVE. SUCH

ARRANGEMENTS SHALL BE SUBJECT TO

ASSESSMENT BY IRISH WATER BEFORE

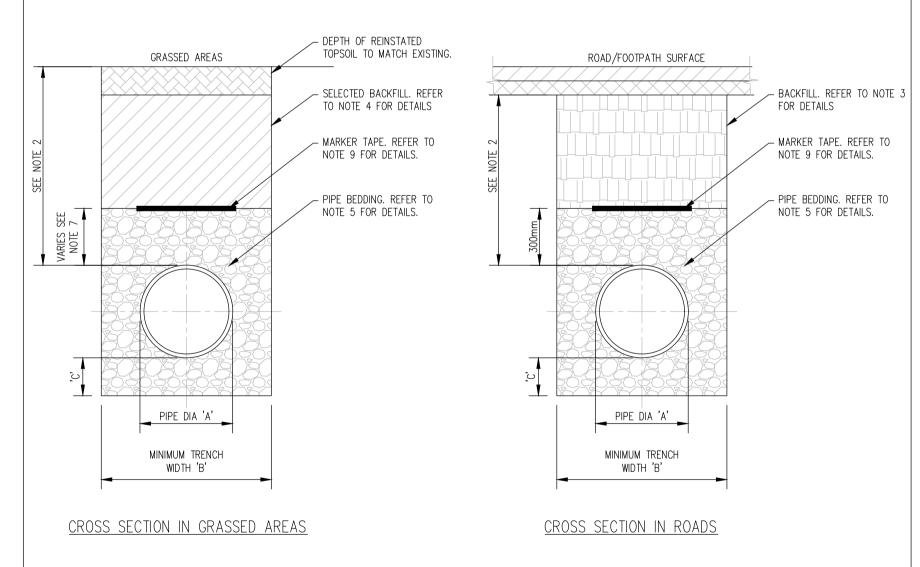
SUPPORT ARRANGEMENTS, INCLUDING PILING

ETC. MAY BE REQUIRED WHERE THE DEPTH OF

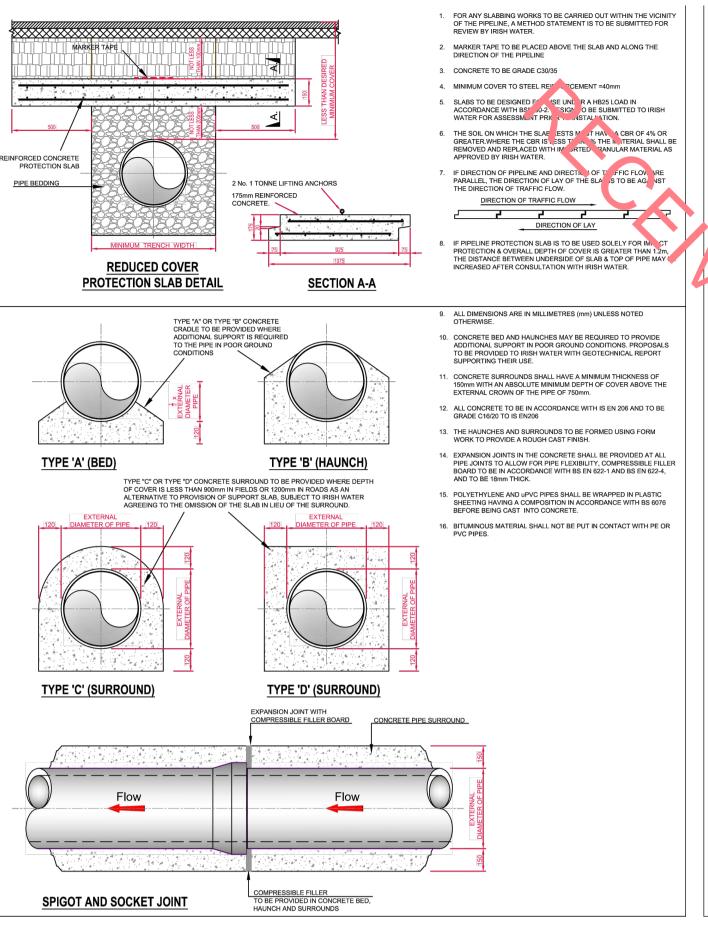
- ROCKS OR ANY HARD OBJECTS AT ANY POINT ALONG THE TRENCH, ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
- 9 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
- 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
< 80 RISING MAIN	< SEE NOTE 10.
< 100	100
150 – 450	200
600	200

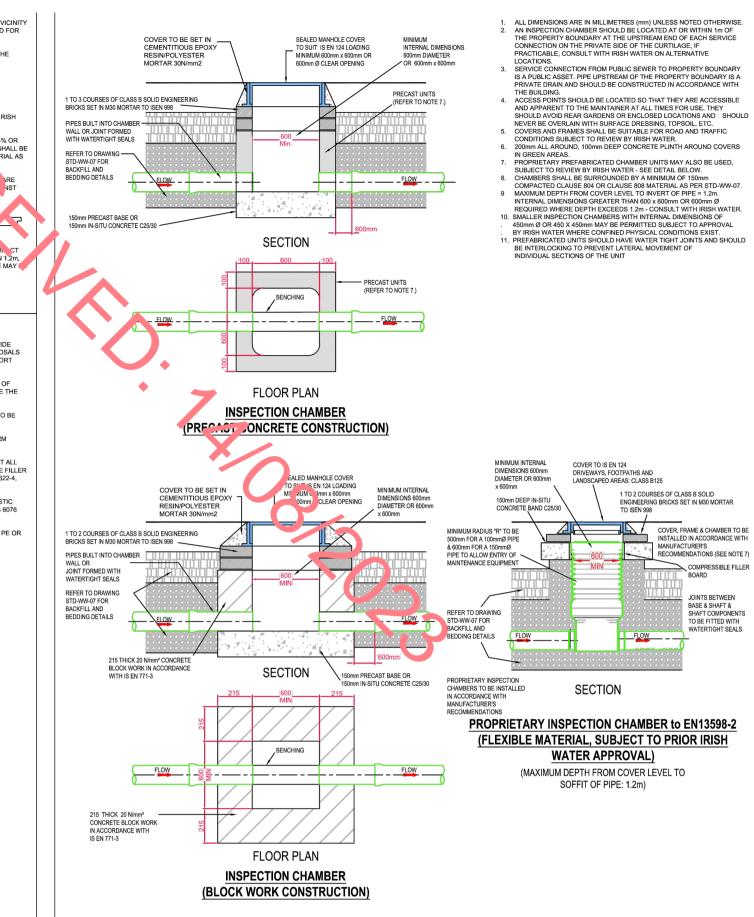
PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
< 80 RISING MAIN	< SEE NOTE 10.
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900
600	1250



TRENCH BACKFILL AND BEDDING (STD - WW - 07) SCALE 1:20



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



STD-WW-13 PRIVATE SIDE INSPECTION CHAMBER



NOT FOR CONSTRUCTION. ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM. THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

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Date REVISION NOTE SC NB P1 12.12.2022 ISSUED FOR PLANNING SC NB P2 16.06.2023 ISSUED FOR PLANNING 09.08.2023 ISSUED FOR PLANNING SC NB

][Client	Keldrum Limited			
	Project	Large-scale Residential Development at Tinakilly, Wicklow			
	Title	Drainage Details Sheet 2 of 4			
	Dwg. No.	A034-CSC-ZZ-XX-DR-C-0010			
	Date	Drn by	Chkd by	Aprvd by Scale	Revision
11	Oct 2022	sc	NB	OS AS SHOW	N @ A1 P3

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