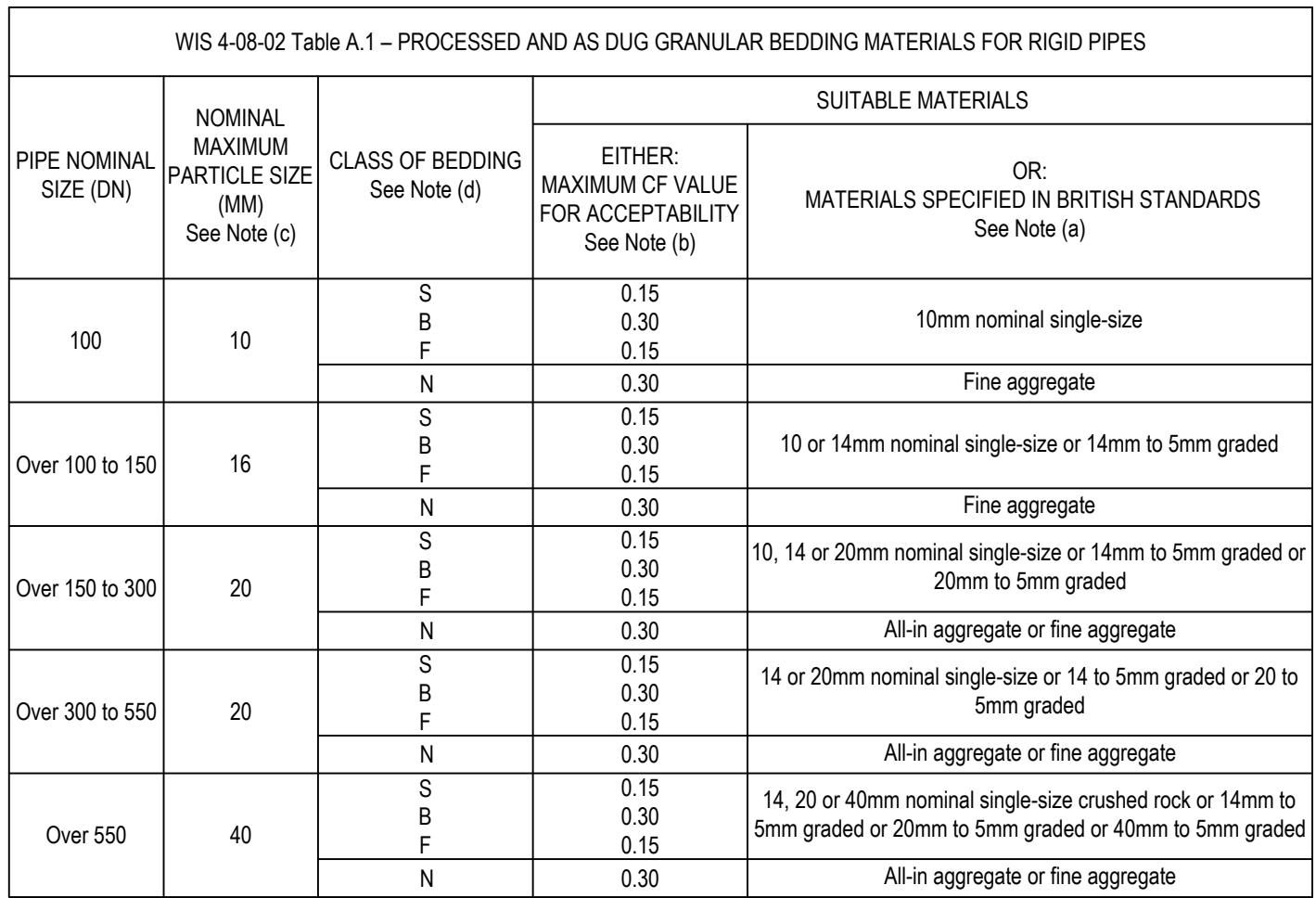
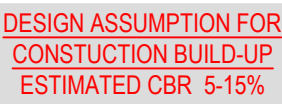




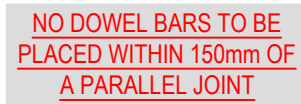
- (a) PROCESSED GRANULAR MATERIALS TO INCLUDE AGGREGATES TO BS EN 12342.
- (b) COMPACTION FRACTION VALUE (CF). SEE APPENDIX B.
- (c) THE NOMINAL MAXIMUM PARTICLE SIZES APPLY BOTH TO PROCESSED AND AS-DUG MATERIALS
SEE SECTION 4 OF IGN NO. 4-08-01 ISSUE 4 AND NO. 4-08-01 AMENDMENT (NOV (2008)).
- (d) BEDDING CONDITIONS ARE DEFINED IN:
BS 1295-1:1995 STRUCTURAL DESIGN OF BURIED PIPES UNDER VARIOUS CONDITIONS OF LOADING
TRRL T242-1:1995 CLASSIFIED TABLES OF EXTERNAL LOADS ON BURIED PIPELINES.
- (e) THE SULPHATE CONTENT OF BEDDING AND SIDEFILL MATERIALS FOR USE WITH CEMENTITIOUS PIPE SHOULD NOT BE GREATER THAN 0.3% AS SULPHUR TRIOXIDE.

WIS 4-08-02 TABLE A.2 - PROCESSED GRANULAR BEDDING AND SIDEFILL MATERIALS FOR FLEXIBLE PIPES				
PIPE NOMINAL BORE (mm) See Note (d)	NOMINAL PARTICLE SIZE (mm)	SUITABLE MATERIALS		
		EITHER: MAXIMUM CF VALUE FOR ACCEPTABILITY. See Note (b)		OR: MATERIALS SPECIFIED IN BRITISH STANDARDS See Note (a)
		NON PRESSURE PIPE	PRESSURE PIPE	
100	10	0.15	0.3	10mm nominal single-size
Over 100 to 150	16	0.15	0.3	10 or 14mm nominal single-size or 14mm to 5mm graded
Over 150 to 300	20	0.15	0.3	10, 14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
Over 300 to 550	20	0.15	0.3	14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
Over 550	40	0.15	0.3	14, 20 or 40mm single-size or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded

- (a) PROCESSED GRANULAR MATERIALS TO INCLUDE AGGREGATES TO BS EN 1242.
- (b) COMPACTION FRACTION VALUE (CF), SEE APPENDIX B.
- (c) FOR THE PURPOSE OF THIS TABLE, PE PIPES OF 630mm OD CAN BE REGARDED AS HAVING NOMINAL BORES OF OVER 550mm, IRRESPECTIVE OF WALL THICKNESS.
- (d) NOMINAL BORE IS USED IN PREFERENCE TO ID BECAUSE OF THE DIFFERENT NOMINAL SIZE CLASSIFICATIONS FOR FLEXIBLE PIPES.
- (e) FOR POLYETHYLENE PIPE COMPLYING WITH CURRENT RELEVANT WATER MAINS PIPEWORK INDUSTRY SPECIFICATIONS, THE MAXIMUM SIDEFILL PARTICLE SIZE MAY BE INCREASED TO 10% OF THE PIPE NOMINAL SIZE.
- (f) FOR 'E' VALUES FOR PROCESSED GRANULAR MATERIALS REFERENCE SHOULD BE MADE TO TABLE A.3 WHERE SPECIFIC SITE TESTS HAVE NOT BEEN PERFORMED.
- (g) FOR FERROUS AND CEMENTITIOUS PIPELINE MATERIALS, THE SULPHATE CONTENT OF BEDDING AND SIDEFILL MATERIALS SHOULD NOT BE GREATER THAN 0.3% AS SULPHUR TRIOXIDE.



Scale 1:20

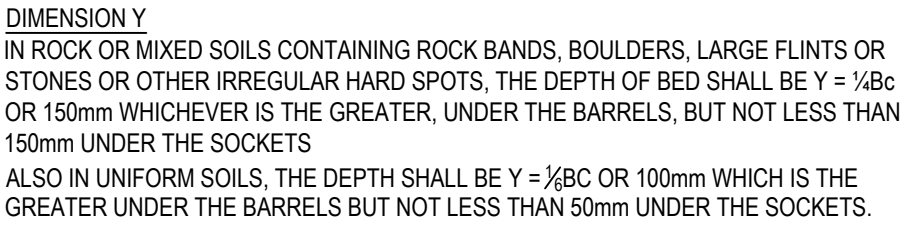


SCALE 1:2

NOT TO SCALE



NOT TO SCALE



CONCRETE TO BE GEN 3 AND PROVIDED IN LIFTS (MAX 2m) TO STAGGER JOINTS WITH JOINTS IN THE PRECAST SECTIONS (CONCRETE JOINT 150mm ABOVE OR BELOW PRE-CAST JOINT)

Diagram illustrating the construction of a precast concrete protection slab for a river bed excavation. The diagram shows a cross-section of the structure with the following components and dimensions:

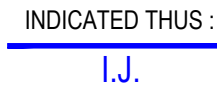
- BACKFILLED WITH EXCAVATED MATERIAL:** The area above the slab is filled with excavated material.
- RIVER BED:** The ground surface above the excavation.
- 300mm OVERLAP IN GEOTEXTILE:** The geotextile material overlaps by 300mm.
- 100mm DEEP PRECAST CONCRETE PROTECTION SLAB:** The slab has a depth of 100mm.
- INDICATIVE LINE OF EXCAVATION:** The boundary of the excavation.
- MINIMUM BEARING OF 300mm ON UNDISTURBED GROUND:** The slab rests on a minimum 300mm of undisturbed ground.
- TERRAM T1000 OR EQUAL AND APPROVED GEOTEXTILE WRAP:** The material used for the excavation walls.
- 150 PIPE 150:** A 150mm diameter pipe is shown within the excavation.
- Dimensions:** The slab is 300mm wide and 300mm high. The excavation is 300mm wide and 300mm deep.

SCALE 1:20

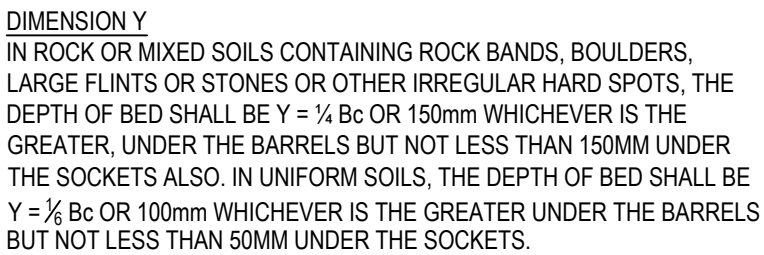
NOTE:
GEOTEXTILE PIPE WRAP OPTIONAL
REQUIRED IN

- POOR GROUND
- PEAT
- RUNNING SANDS

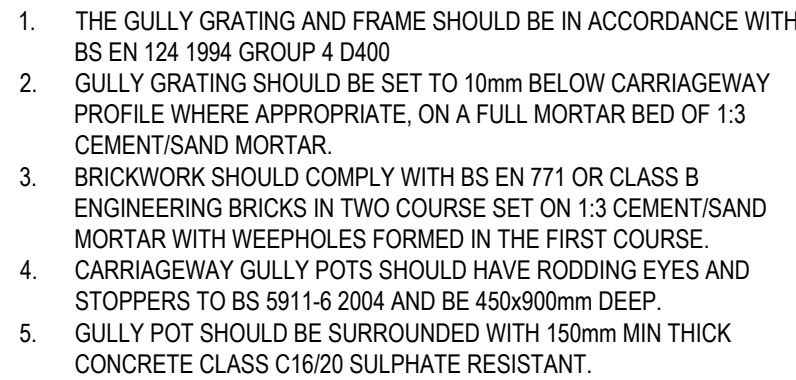
TO PREVENT LOSS OF FINES /
BEDDING & SURROUND



Scale 1:20



SCALE 1:20



SCALE 1:20

NOTES

1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
3. Issue of Drawings.
Hard copies, dxf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipients own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipients drawing production, or setting out on site.
4. Datum.
All Levels to Ordnance Survey Datum, Belfast.

rev	amendments	check	date
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Client

 **OPW** Óifig na nOibreacha Poiblí
Office of Public Works

Project
Morningson Storm Pumping Station

Title
The Dunes Storm Pumping Station
Construction Details

Project Number	Sheet Size	Drawing Scale
IBI0050	A1	As Shown

Drawing Number
15-0050-PRO-FE-01-REV-0-1000IBI0050-RPS-ZZ-XX-DR-C-1300

Drawn By CB	Status S3	Revision P01
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Checked By	Approved By	Date
CB	RM	03/06/2026