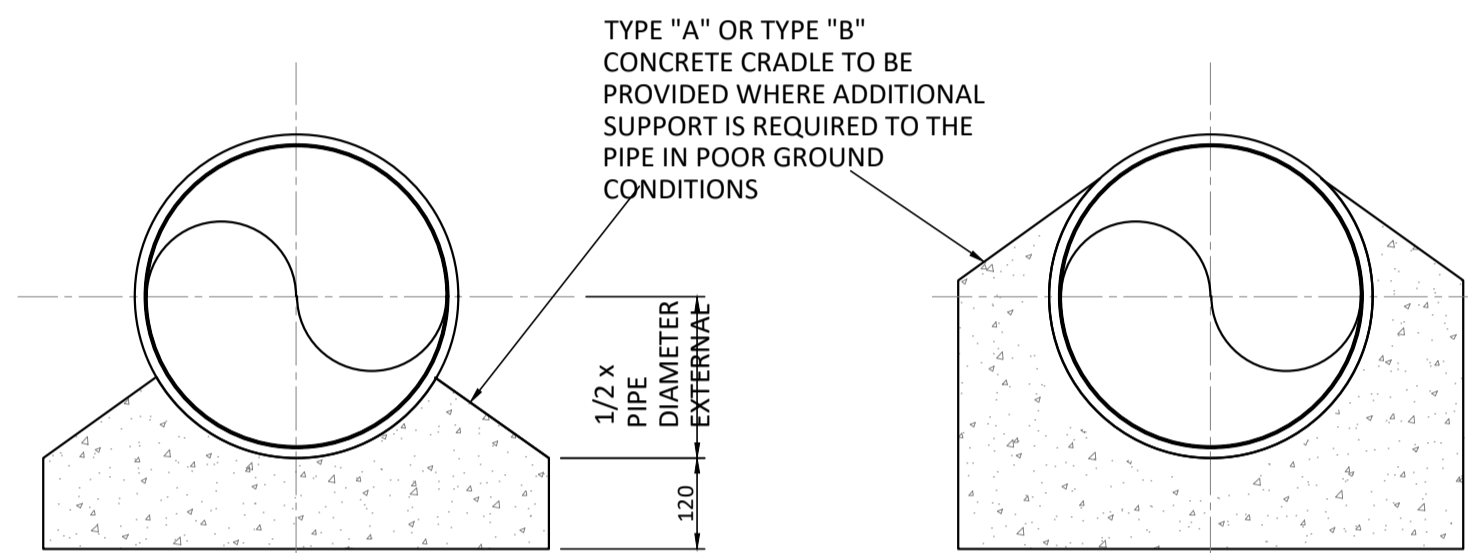


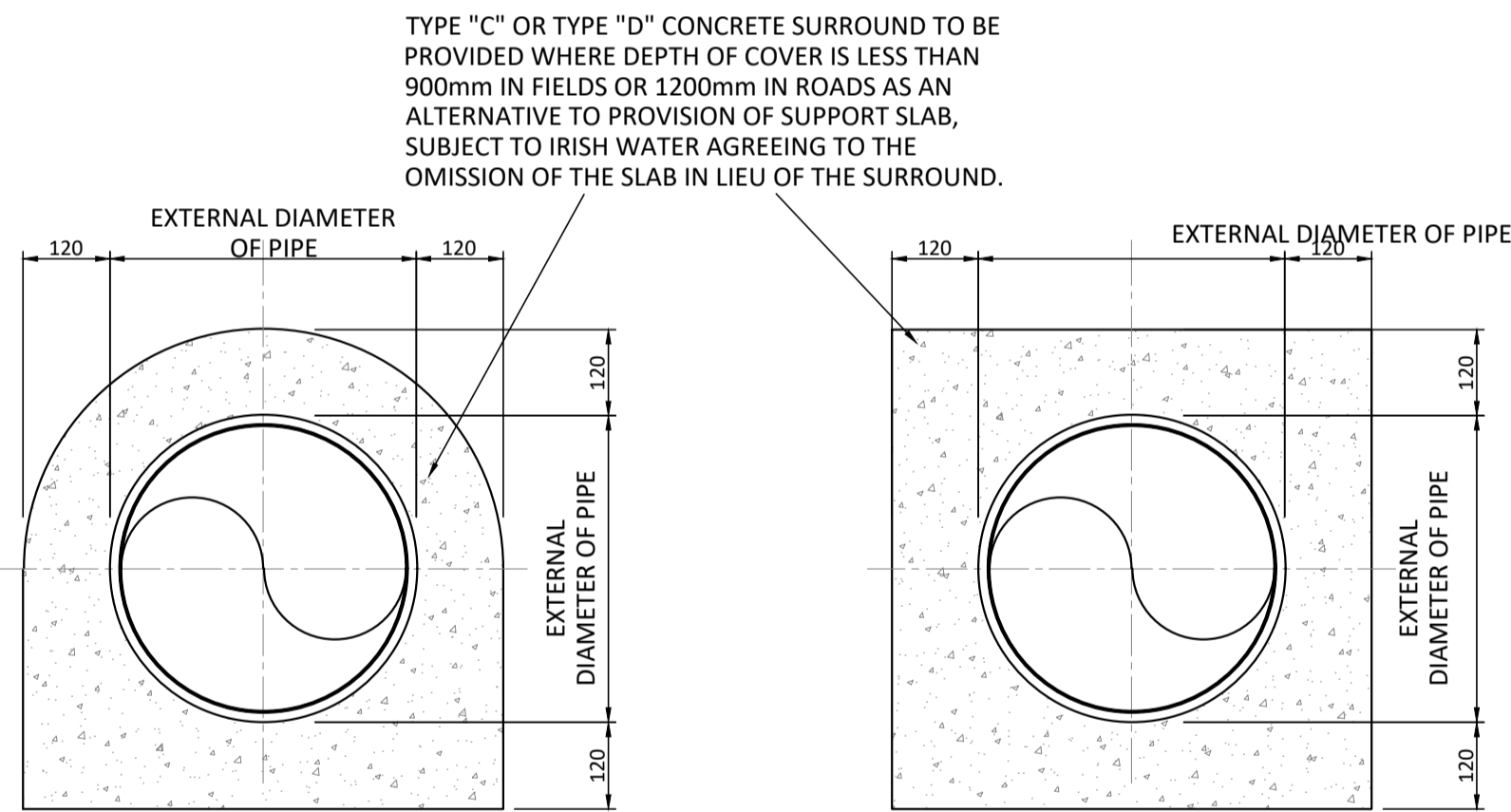
REDUCED COVER PROTECTION SLAB DETAIL
SCALE = 1:10

SECTION A-A



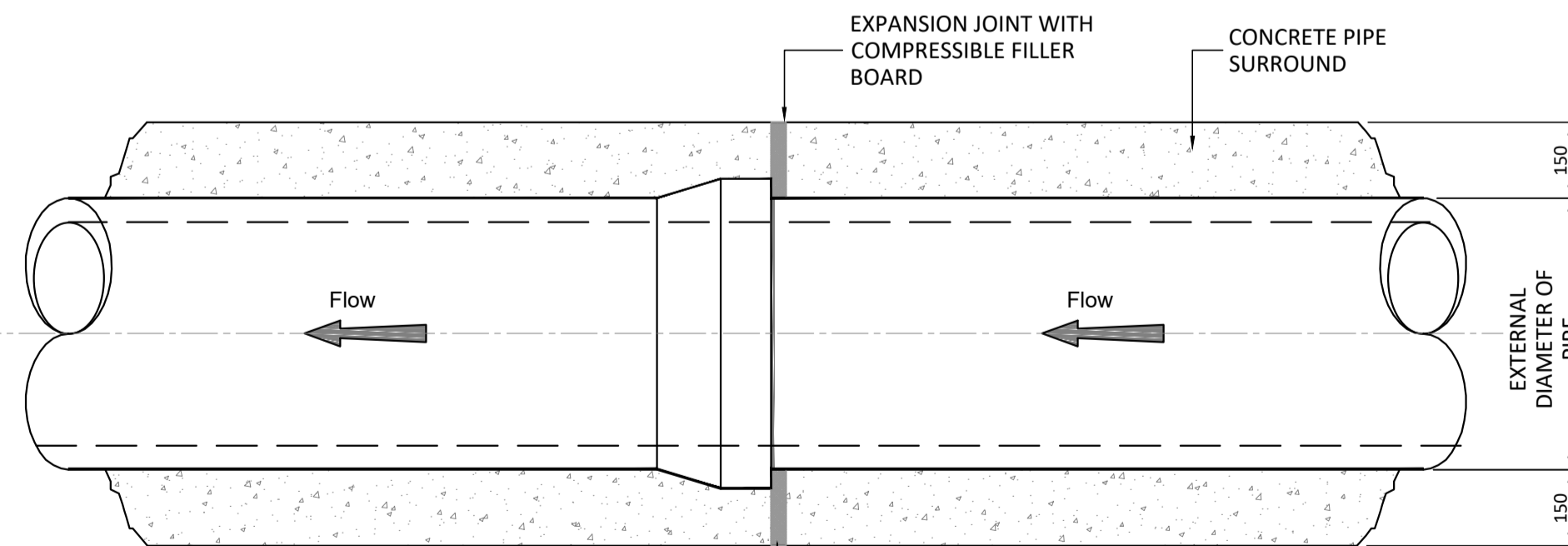
TYPE 'A' (BED)

TYPE 'B' (HAUNCH)



TYPE 'C' (SURROUND)

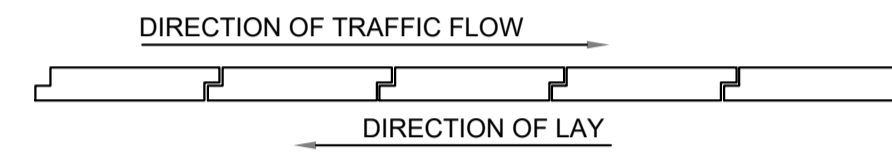
TYPE 'D' (SURROUND)



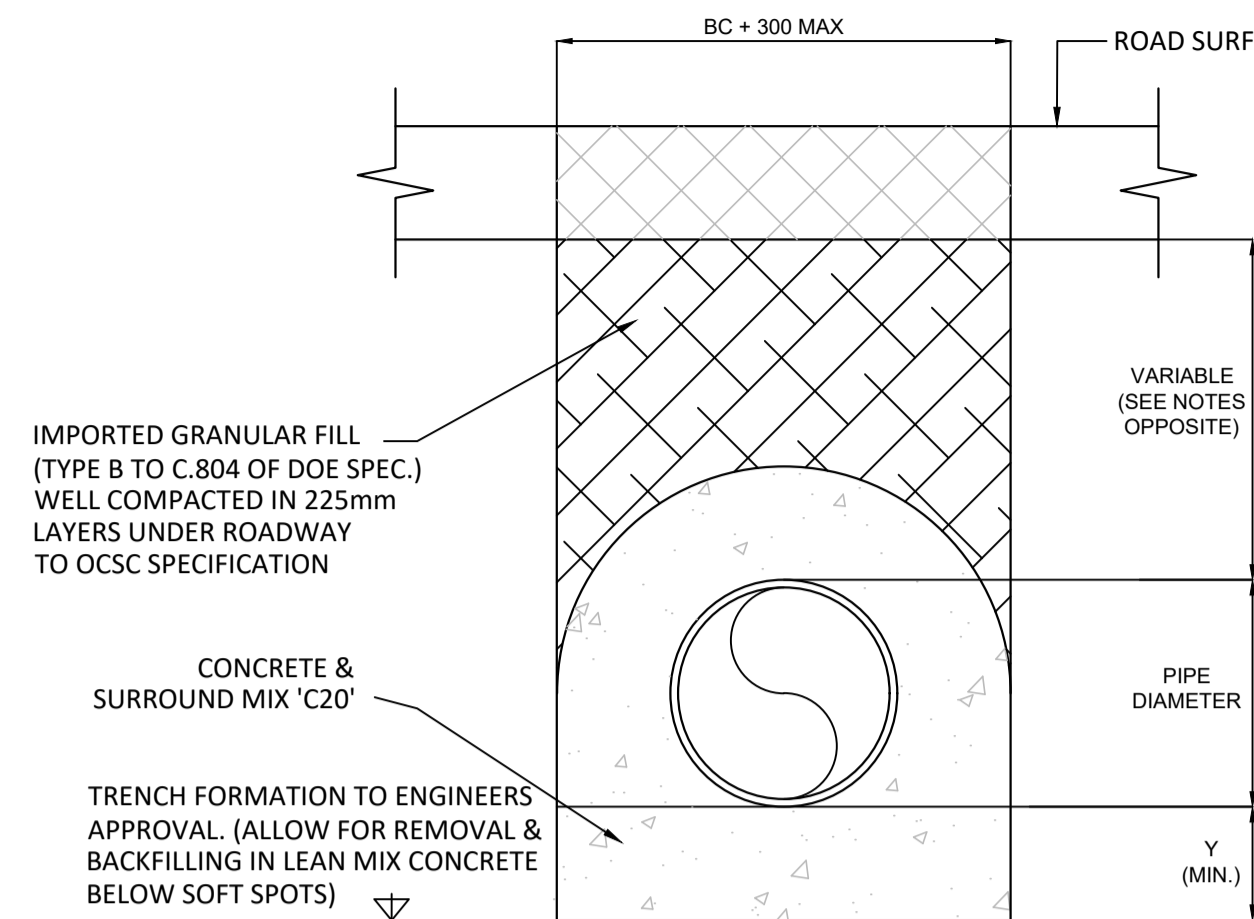
SPIGOT AND SOCKET JOINT
SCALE = 1:10

CONCRETE PROTECTION SLAB, BED, HAUNCH, AND SURROUND, TO WASTEWATER PIPES NOTES:

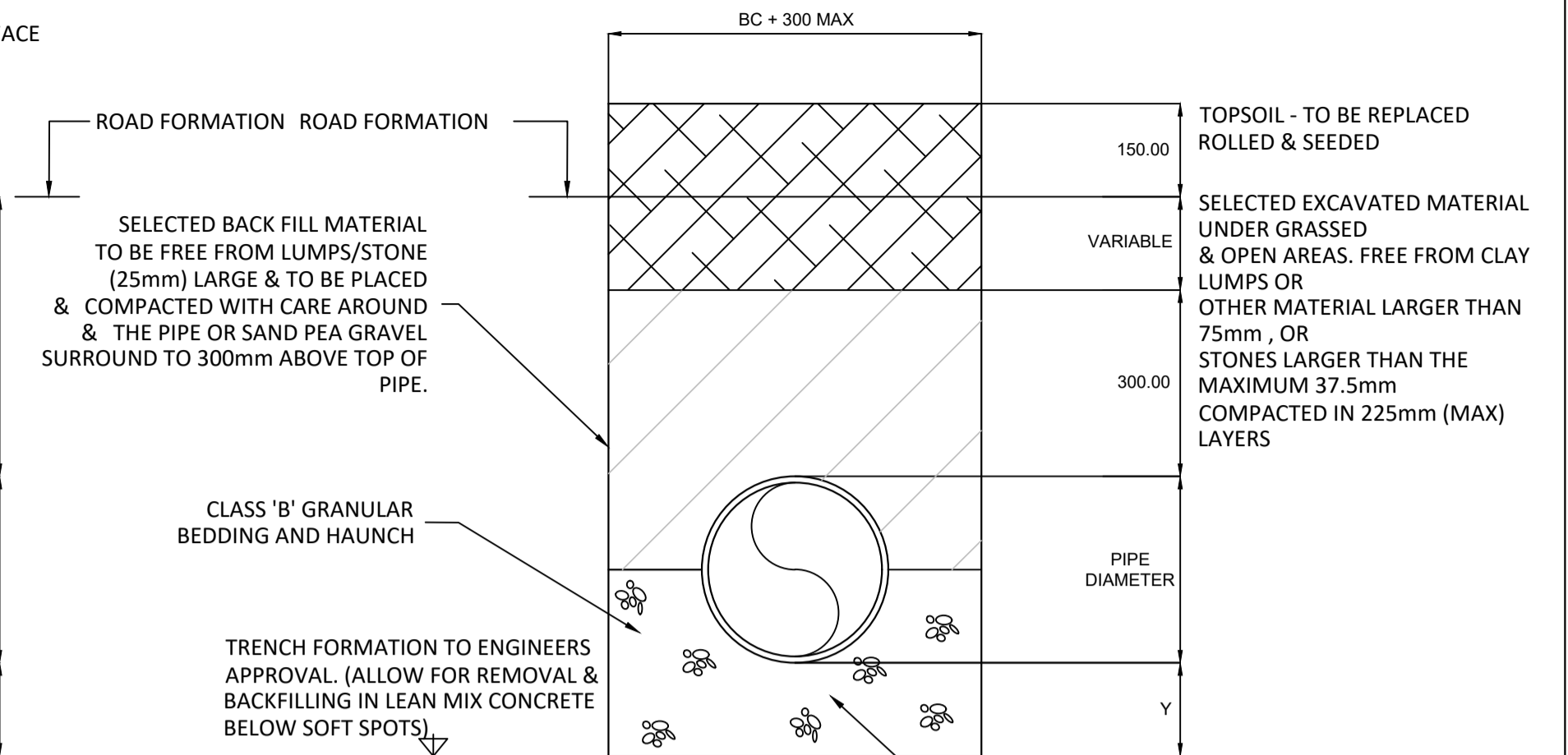
- FOR ANY SLABBING WORKS TO BE CARRIED OUT WITHIN THE VICINITY OF THE PIPELINE, A METHOD STATEMENT IS TO BE SUBMITTED FOR REVIEW BY IRISH WATER.
- MARKER TAPE TO BE PLACED ABOVE THE SLAB AND ALONG THE DIRECTION OF THE PIPELINE
- CONCRETE TO BE GRADE C30/35
- MINIMUM COVER TO STEEL REINFORCEMENT = 40mm
- SLABS TO BE DESIGNED FOR USE UNDER A HB25 LOAD IN ACCORDANCE WITH BS5400-2. DESIGN TO BE SUBMITTED TO IRISH WATER FOR ASSESSMENT PRIOR TO INSTALLATION.
- 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 WITH IMPORTED GRANULAR MATERIAL AS APPROVED BY IRISH WATER.
- IF DIRECTION OF PIPELINE AND DIRECTION OF TRAFFIC FLOW ARE PARALLEL, THE DIRECTION OF LAY OF THE SLAB IS TO BE AGAINST THE DIRECTION OF TRAFFIC FLOW.



- IF PIPELINE PROTECTION SLAB IS TO BE USED SOLELY FOR IMPACT PROTECTION & OVERALL DEPTH OF COVER IS GREATER THAN 1.2m, THE DISTANCE BETWEEN UNDERSIDE OF SLAB & TOP OF PIPE MAY BE INCREASED AFTER CONSULTATION WITH IRISH WATER.
- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- CONCRETE BED AND HAUNCHES MAY BE REQUIRED TO PROVIDE ADDITIONAL SUPPORT IN POOR GROUND CONDITIONS. PROPOSALS TO BE PROVIDED TO IRISH WATER WITH GEOTECHNICAL REPORT SUPPORTING THEIR USE.
- 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.
- ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 AND TO BE GRADE C16/20 TO IS EN206
- THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK TO PROVIDE A ROUGH CAST FINISH.
- EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR PIPE FLEXIBILITY, COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4, AND TO BE 18mm THICK.
- POLYETHYLENE AND uPVC PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
- BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES.



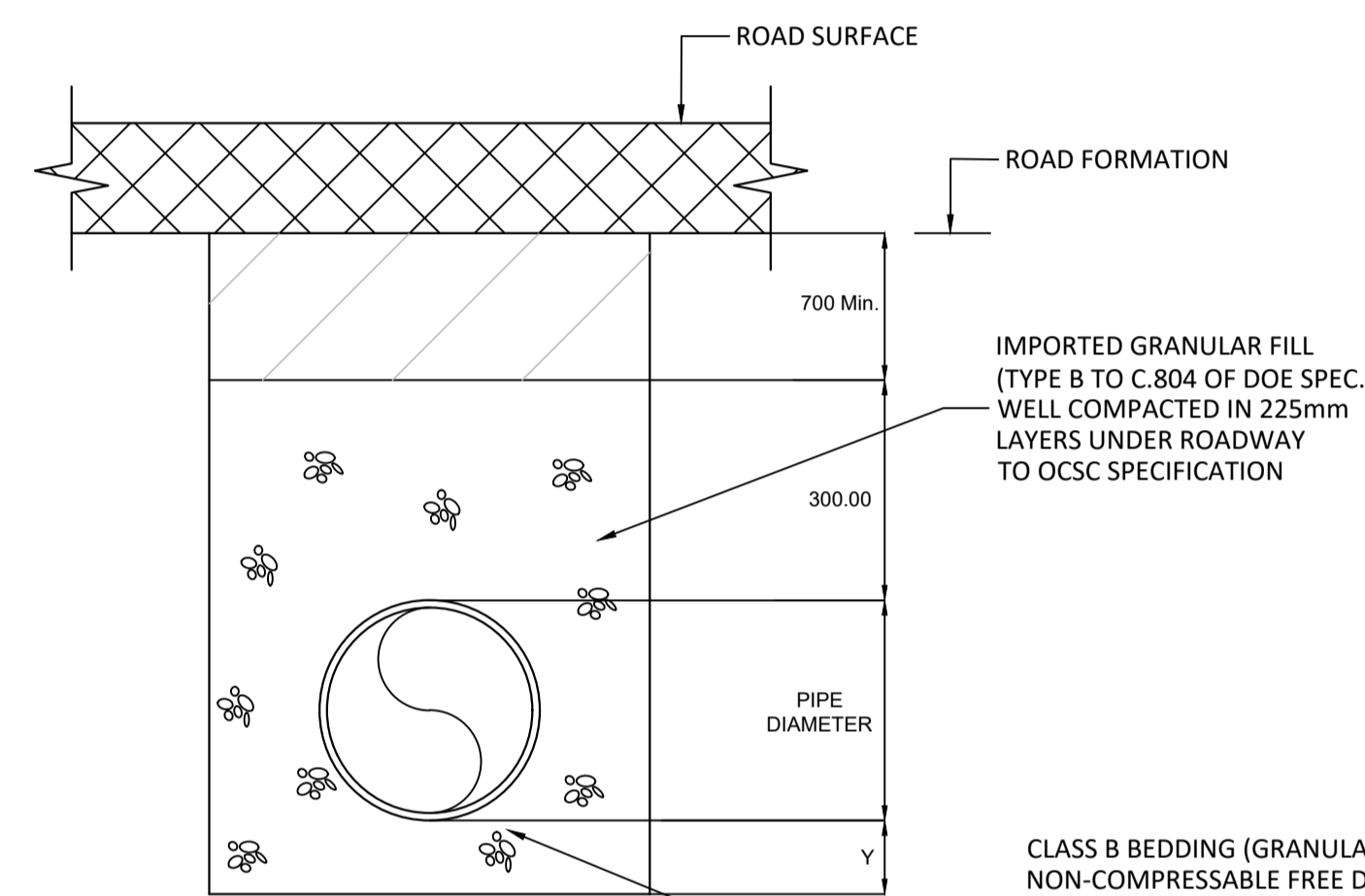
TYPICAL SECTION FOR CONCRETE SURROUND IN ROADWAYS
SCALE = 1:10



TYPICAL SECTION
SCALE = 1:10

TOPSOIL - TO BE REPLACED ROLLED & SEEDED
SELECTED EXCAVATED MATERIAL UNDER GRASSED & OPEN AREAS. FREE FROM CLAY LUMPS OR OTHER MATERIAL LARGER THAN 75mm, OR STONES LARGER THAN THE MAXIMUM 37.5mm COMPACTED IN 225mm (MAX) LAYERS

CLASS B BEDDING (GRANULAR MATERIAL) TO BE NON-COMPRESSIBLE FREE DRAINING MATERIAL SUCH AS GRAVELS OR CRUSHED STONE HAVING A GRADE PASSING THRO' A 14mm SIEVE & RETAINED ON A 5mm SIEVE



TYPICAL SECTION UNDER ROADS & PAVED AREAS
SCALE = 1:10

CLASS B BEDDING (GRANULAR MATERIAL) TO BE NON-COMPRESSIBLE FREE DRAINING MATERIAL SUCH AS GRAVELS OR CRUSHED STONE HAVING A GRADE PASSING THRO' A 14mm SIEVE & RETAINED ON A 5mm SIEVE

PLANNING DRAWING.
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Rev No.	Date	Revision Note	Drn by	Chkd by
P01	15/09/21	SUITABLE FOR INFORMATION	RM	DR
P02	04/10/21	SUITABLE FOR STAGE APPROVAL	RM	DR
P03	04/05/22	SUITABLE FOR SYAGE APPROVAL	RB	ZB

Rev No.	Date	Revision Note	Drn by	Chkd by



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Client: **BEO PROPERTIES LIMITED**
Project: **RATOATH SOUTH SHD**

Title: **DRAINAGE DETAILS**
SHEET 2 OF 3

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
L308	OCSC	XX	XX	DR	C	0521	S4	P03

Date: 01.04.20 Scale: SHWN @ A1 Drn by: RM Chkd by: DR Aprvd by: AH