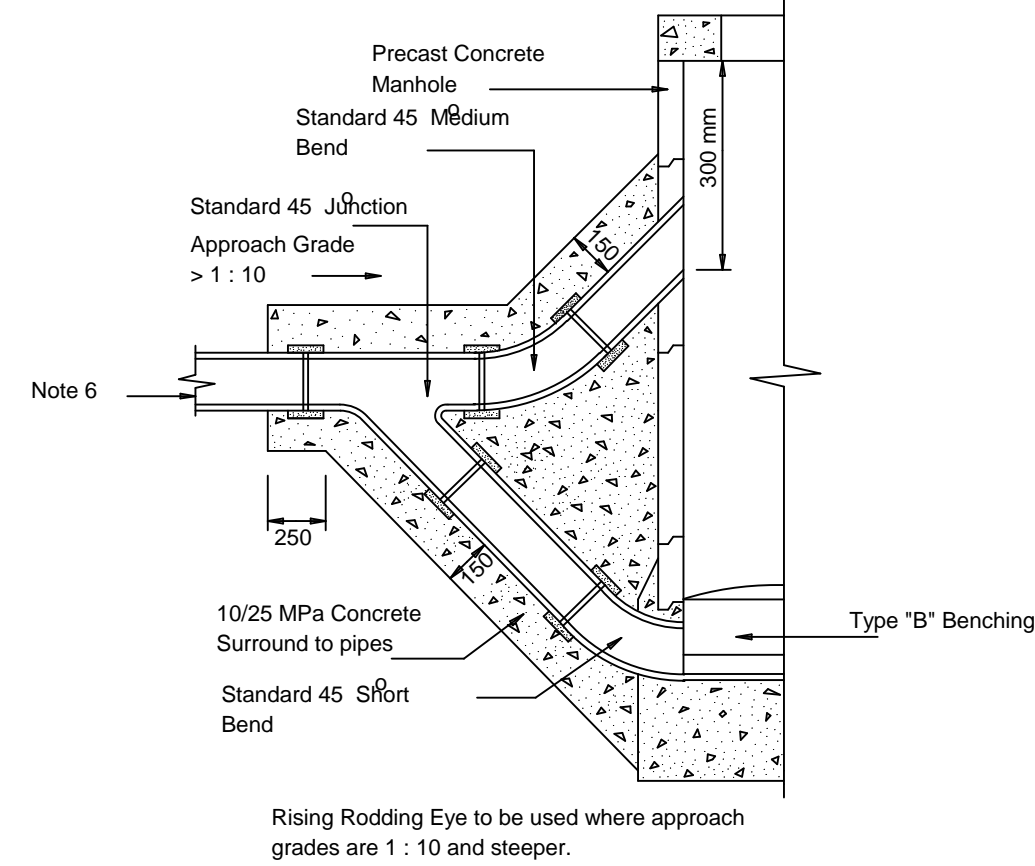
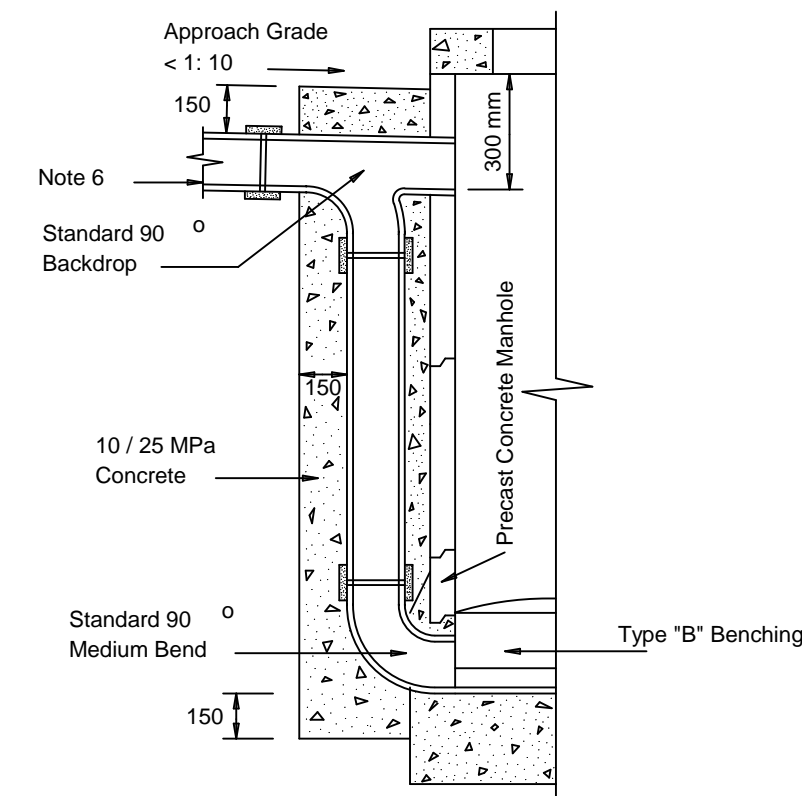


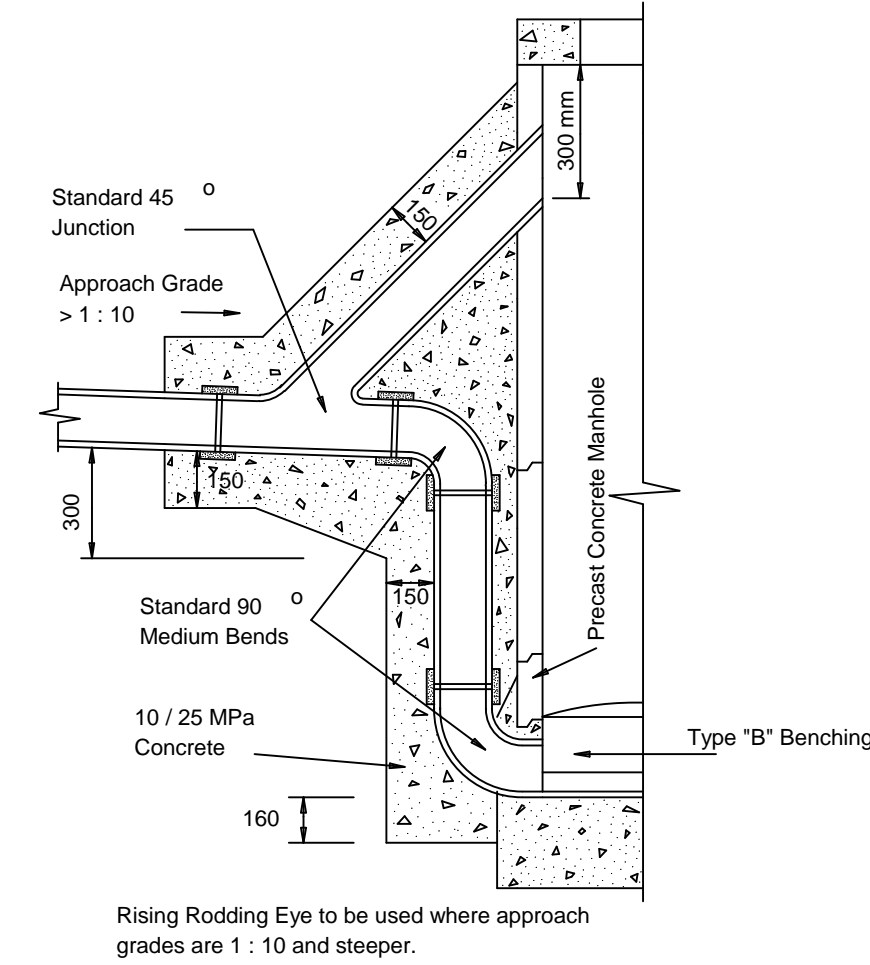
RAMP MANHOLE : TYPE A  
FOR DROPS BETWEEN 500 AND 1000



RAMP MANHOLE : TYPE B  
FOR DROPS BETWEEN 500 AND 1000

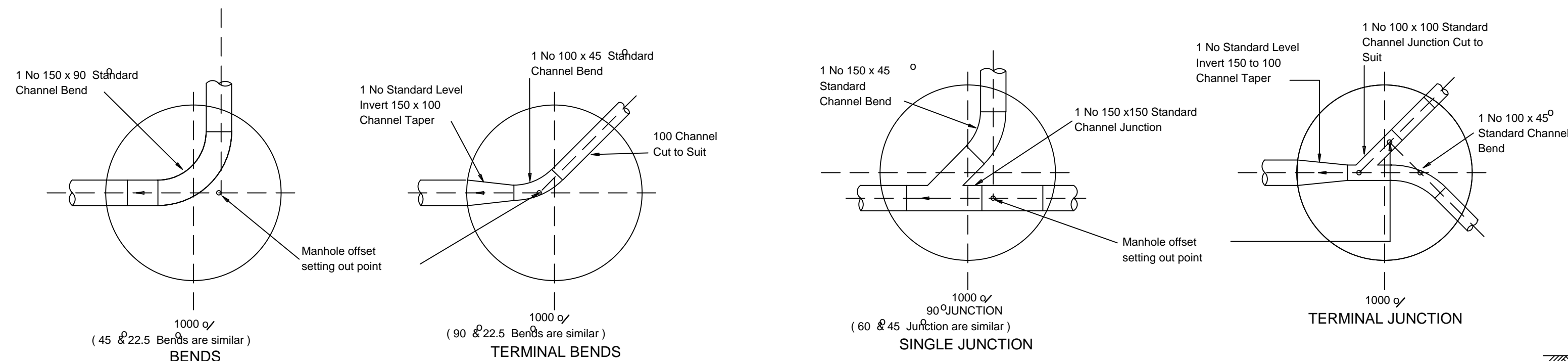


BACKDROP MANHOLE : TYPE A  
FOR DROPS IN EXCESS OF 1000

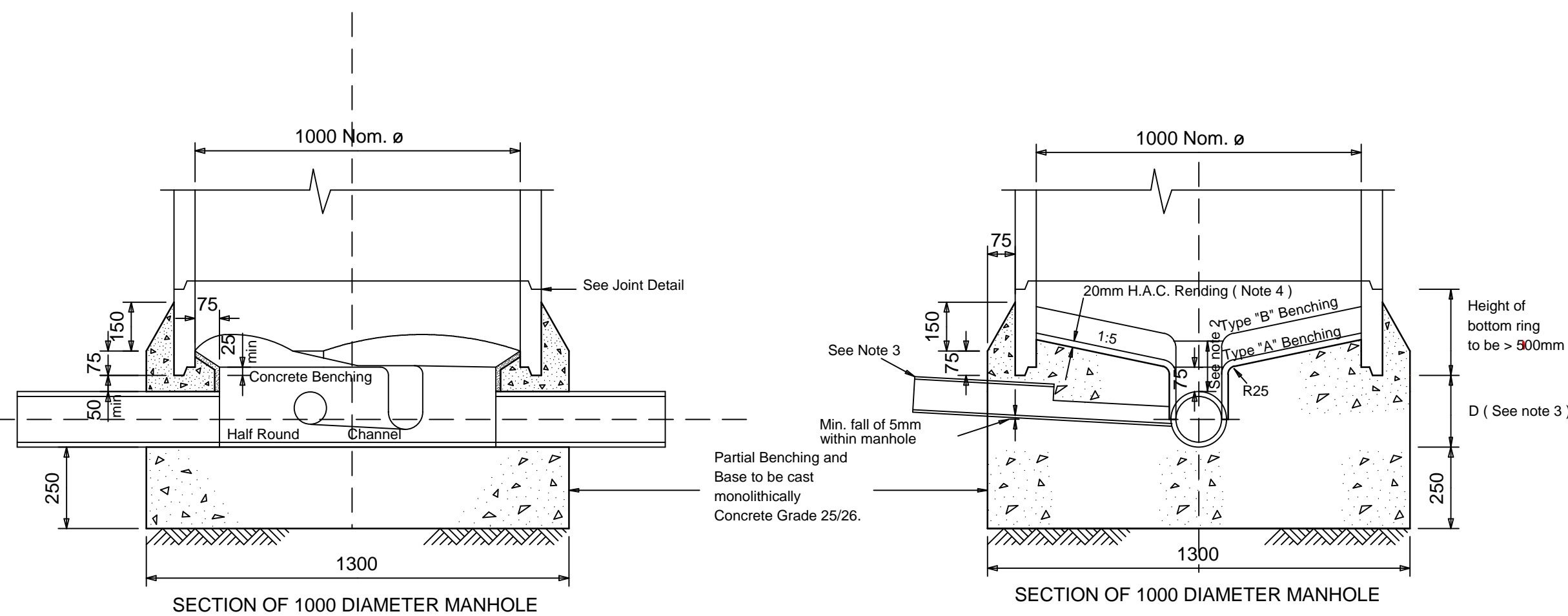


BACKDROP MANHOLE : TYPE B  
FOR DROPS IN EXCESS OF 1000

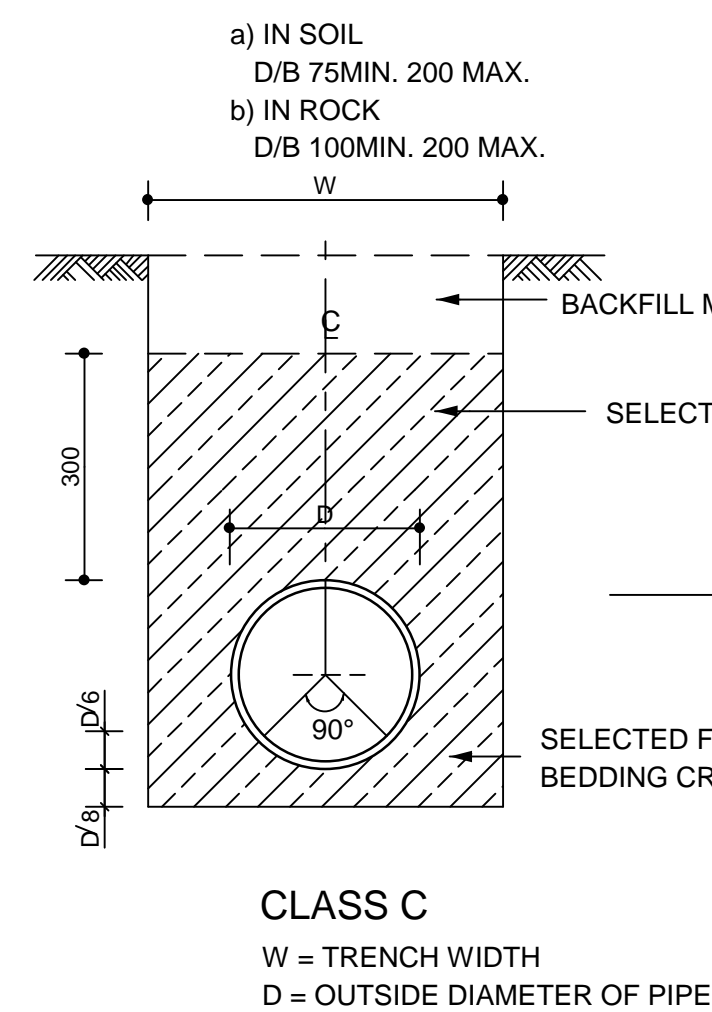
### STANDARD FITTING FOR RAMP AND BACKDROP MANHOLES. NOT TO SCALE



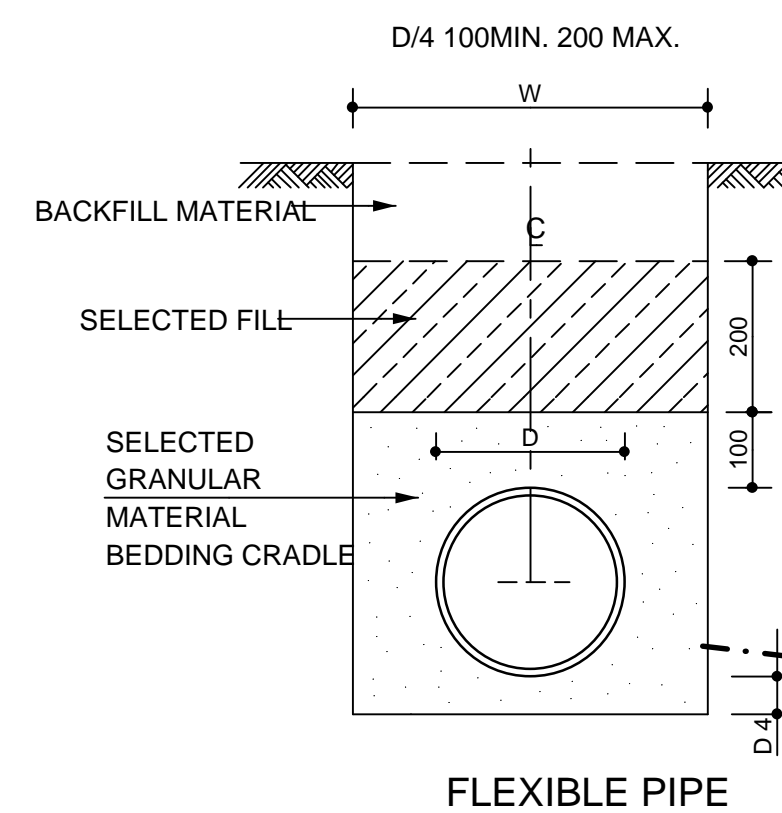
### STANDARD CHANNELLING IN PRECAST CONCRETE MANHOLES NOT TO SCALE



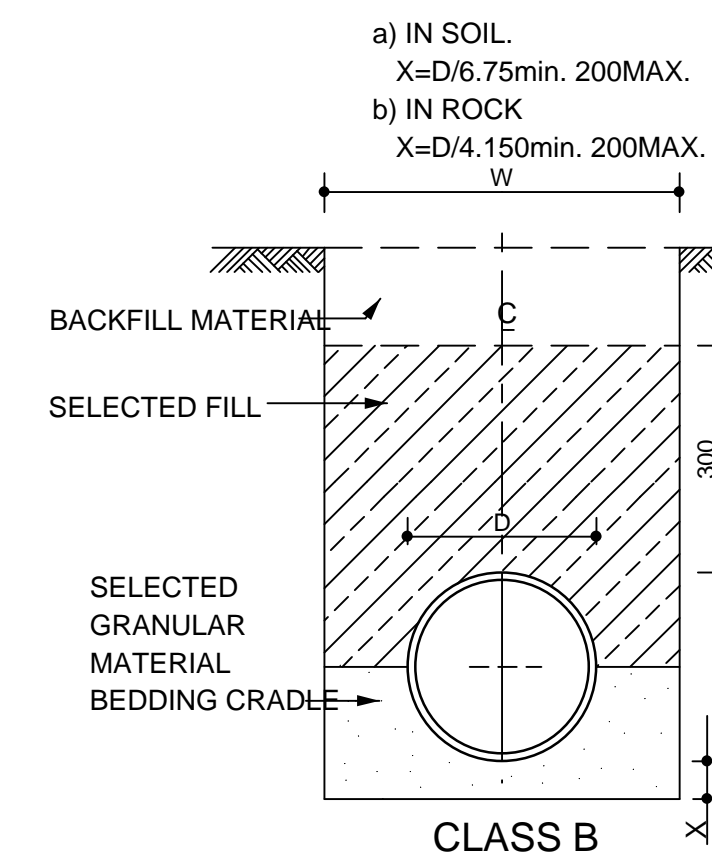
PRECAST CONCRETE SEWER MANHOLE  
SCALE 1 : 15



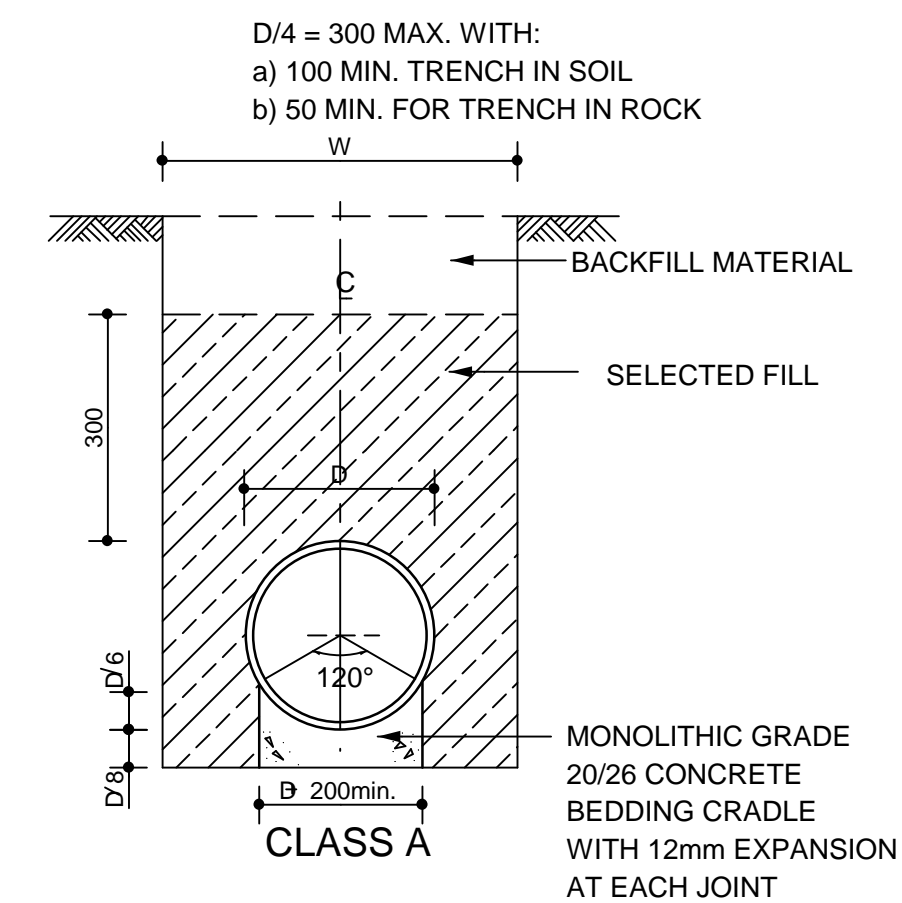
### PIPE BEDDING DETAILS



FLEXIBLE PIPE



CLASS B



CLASS A

### DRAWING REFERENCE

DRAWING NO.	TITLE

### NOTES

- This drawing to be read in conjunction with Drawing TGC/01.
- Where approach grades into the manhole are 1 : 15 or steeper and associated with a change in direction in the manhole of 30° or more, the bending is to be brought up two pipe diameter above the pipe invert ( Type B benching sewers )
- Dimension D varies with the diameter of the sewer pipes and shall be to a point 50mm above the highest crown of the pipes.
- Rendering for manhole benching shall consist of one part H.A.C. to two parts sand thoroughly mixed and applied to concrete surfaces while the latter are still green. Rendering shall be at least 20mm thick.

NO.	AMENDMENT	APPROVED	DATE

### REVISIONS

CLIENT	
--------	--

### THEKWINI GEOCIVILS cc

Geotechnical & Civil Engineers  
Waste Disposal Consultants • Project Managers

1st FLOOR  
68 Ridge Road  
Tollgate  
DURBAN  
4001  
Telephone 201-9929

P.O. Box 30072  
MAYVILLE  
4058  
Telefax 201-8819

### STANDARD DETAILS

### SEWER MANHOLES

CONSULTING ENGINEER	DESIGNED : G.P.	REVISION
SIGNATURE:.....	DRAWN : K.M.	
PR. NO.:.....	CHECKED : G.P.	
DATE:.....	SCALE : AS SHOWN	
REFERENCE NO.	DATE : 06/11/2000	
TGC/02	SHEET 1 OF 1	