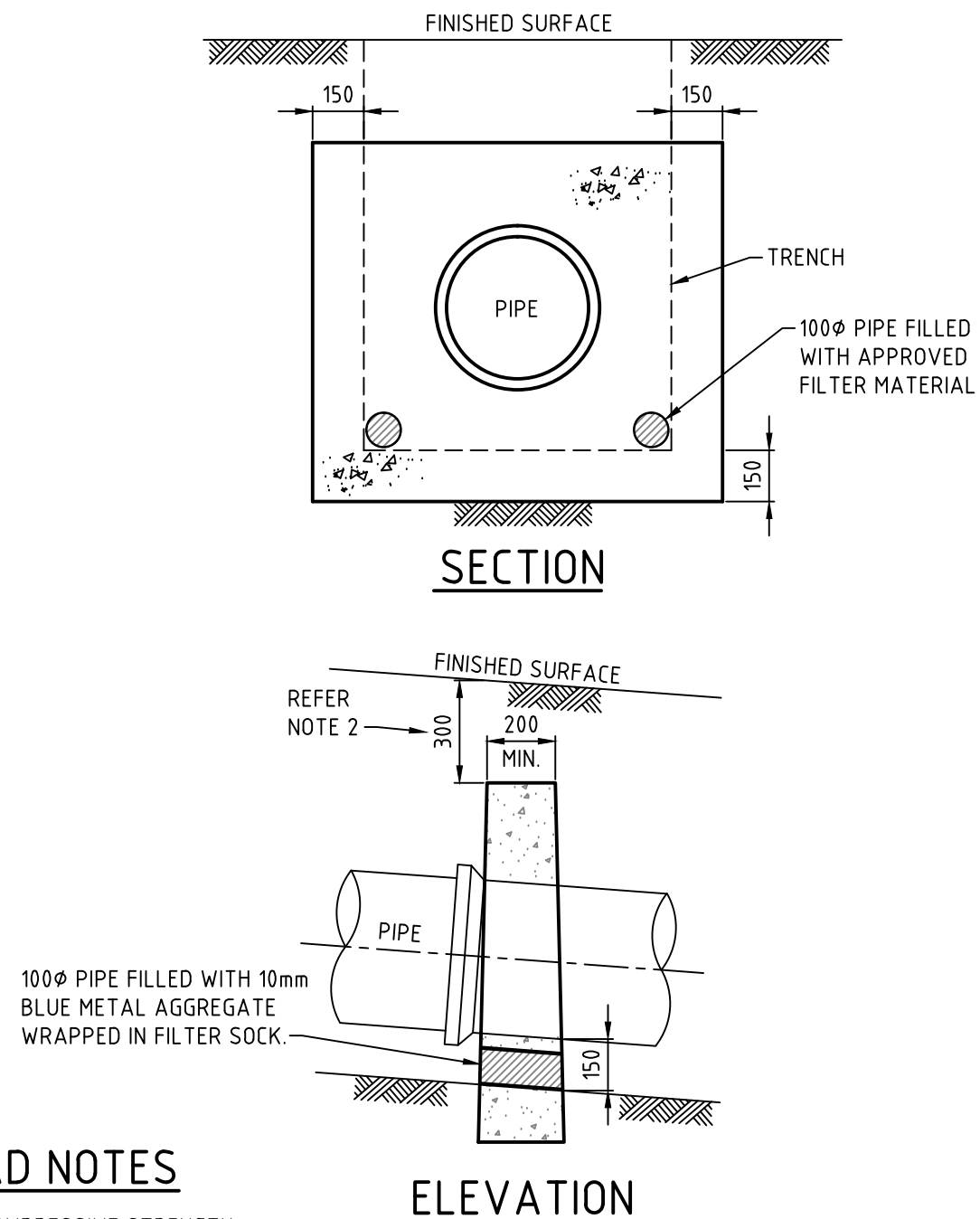


## PIPE ANCHOR NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa U.N.O.
2. ALL STORMWATER PIPES TO BE CONCRETE OR FIBRE REINFORCED CLASS 2 OR GREATER.
3. ALL PIPE ANCHORS TO BE KEYED INTO ROCK.
4. PIPE ANCHORS TO BE INSTALLED AT 1.2m INTERVALS MAXIMUM.
5. ANCHORS FOR PIPES GREATER THAN 450mm $\phi$  AND STEEPER THAN 10% SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
6. THRUST BLOCKS OR CAST IN SITU PITS AT BENDS IN THE PIPE SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.



## CONCRETE BULKHEAD NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa U.N.O.
2. WHERE THE PIPELINE IS UNDER ROAD PAVEMENT THE TOP OF THE BULKHEAD SHALL EXTEND TO THE SUBGRADE LEVEL.
3. BULKHEADS ARE TO BE PLACED AT EACH COLLAR JOINT FOR PIPELINE GRADES GREATER THAN 10%.

**Mosman**  
COUNCIL

## CONCRETE BULKHEAD AND PIPE ANCHOR

0 0.5 0.8m  
SCALE 1:20 @A3

REV. C  
DATE:  
MAR 2014

DRAWING No.  
SD209