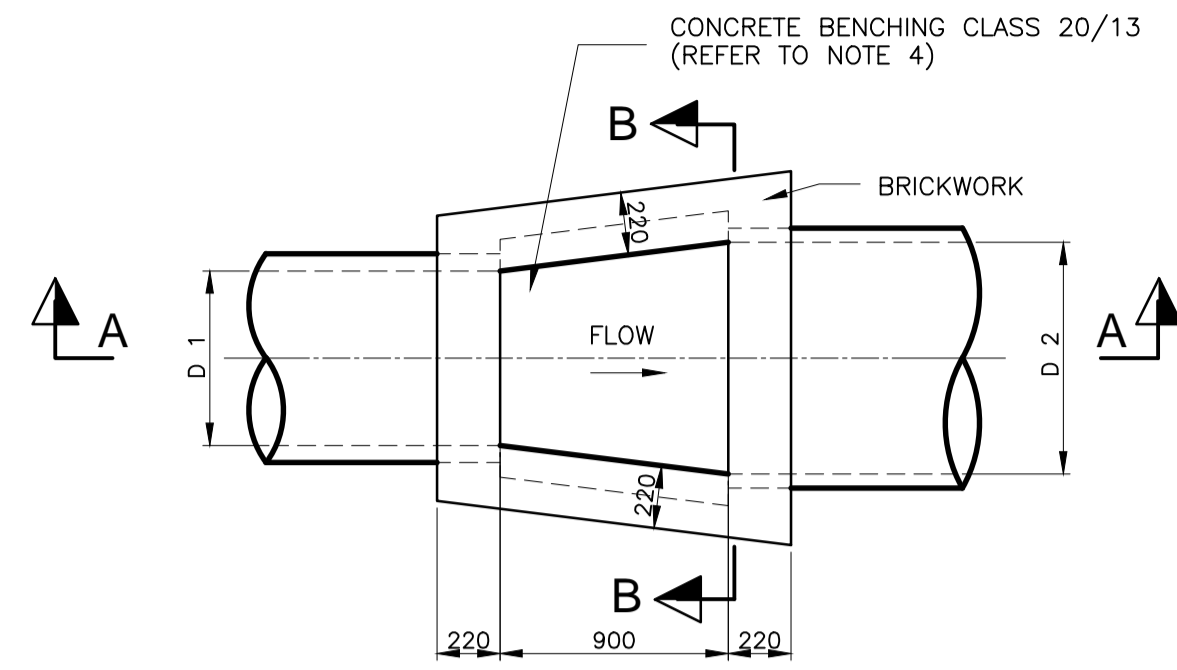
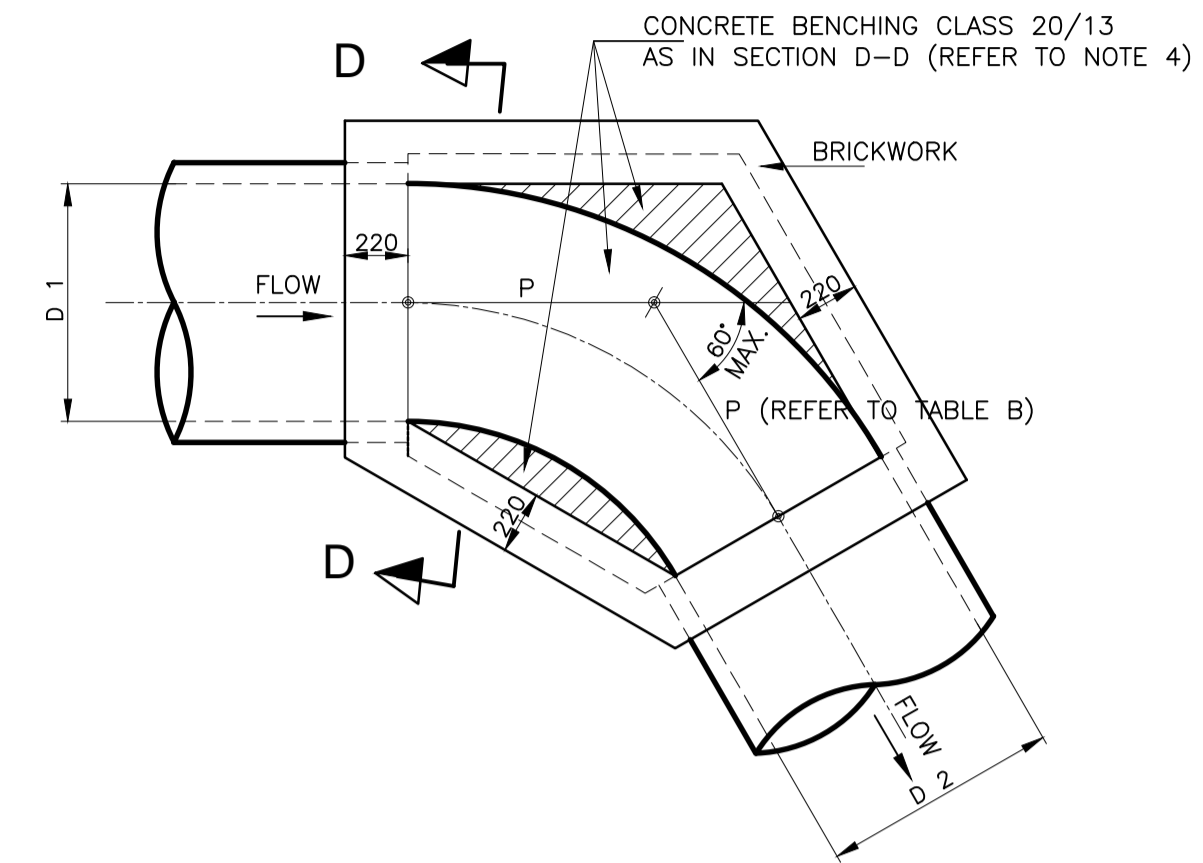


NOTES AND SPECIFICATIONS

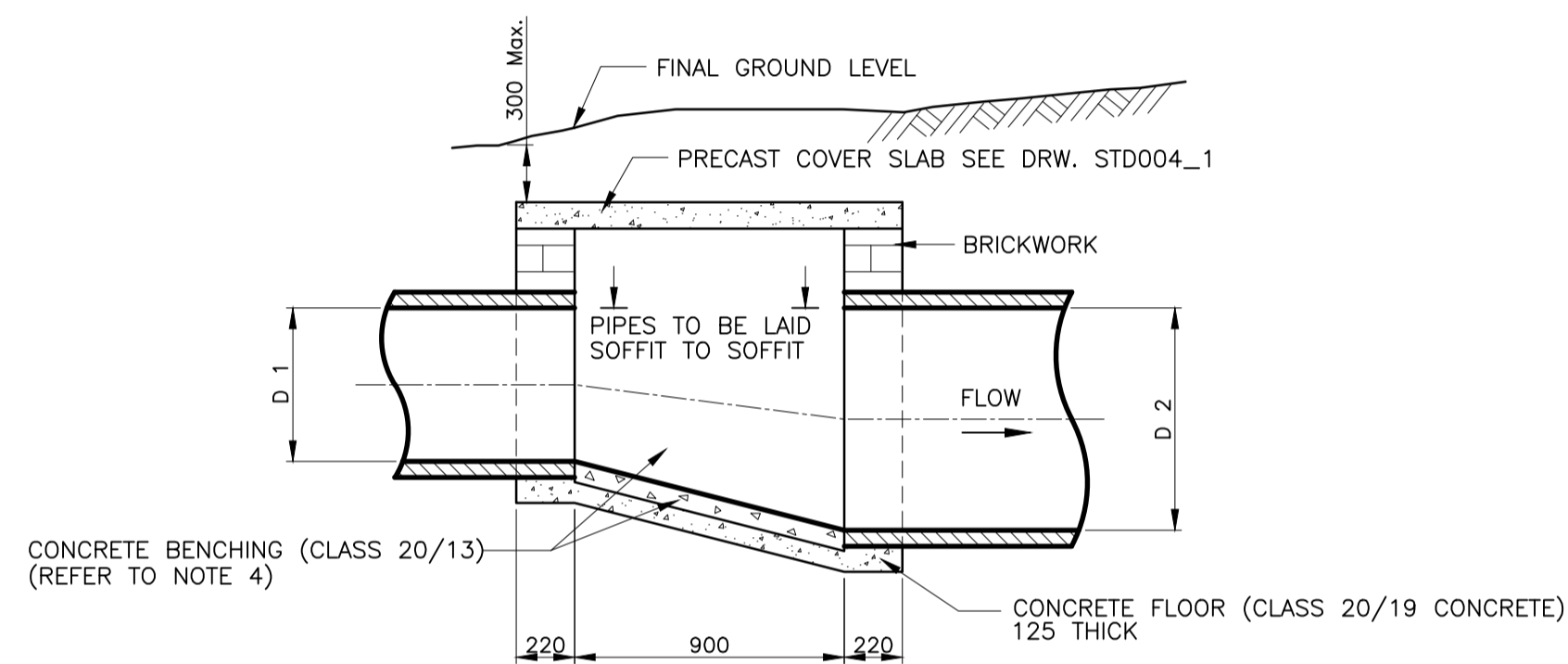
- All stormwater pipes to be laid soffit to soffit
- Minimum pipe diameter of all pipes is 450mm.
- Maximum angle between adjoining pipes is 60°.
- Where a pipe wall is at least 75mm from the nearest junction box wall, the concrete benching can be started adjacent to the double brick wall.
- Where the total depth of the junction box (invert level to finished ground level) exceeds 2.0m a structural design must be submitted by a professional engineer.
- All bricks shall comply with SABS 227 and shall be engineering units of class FBS (face brick standard) with
- Also refer to Section 502 of the Standard Specifications for Municipal Civil Engineering Works, 1991.



PLAN OF TYPE D JUNCTION BOX (WITHOUT COVER SLAB)  
D 1 < D 2



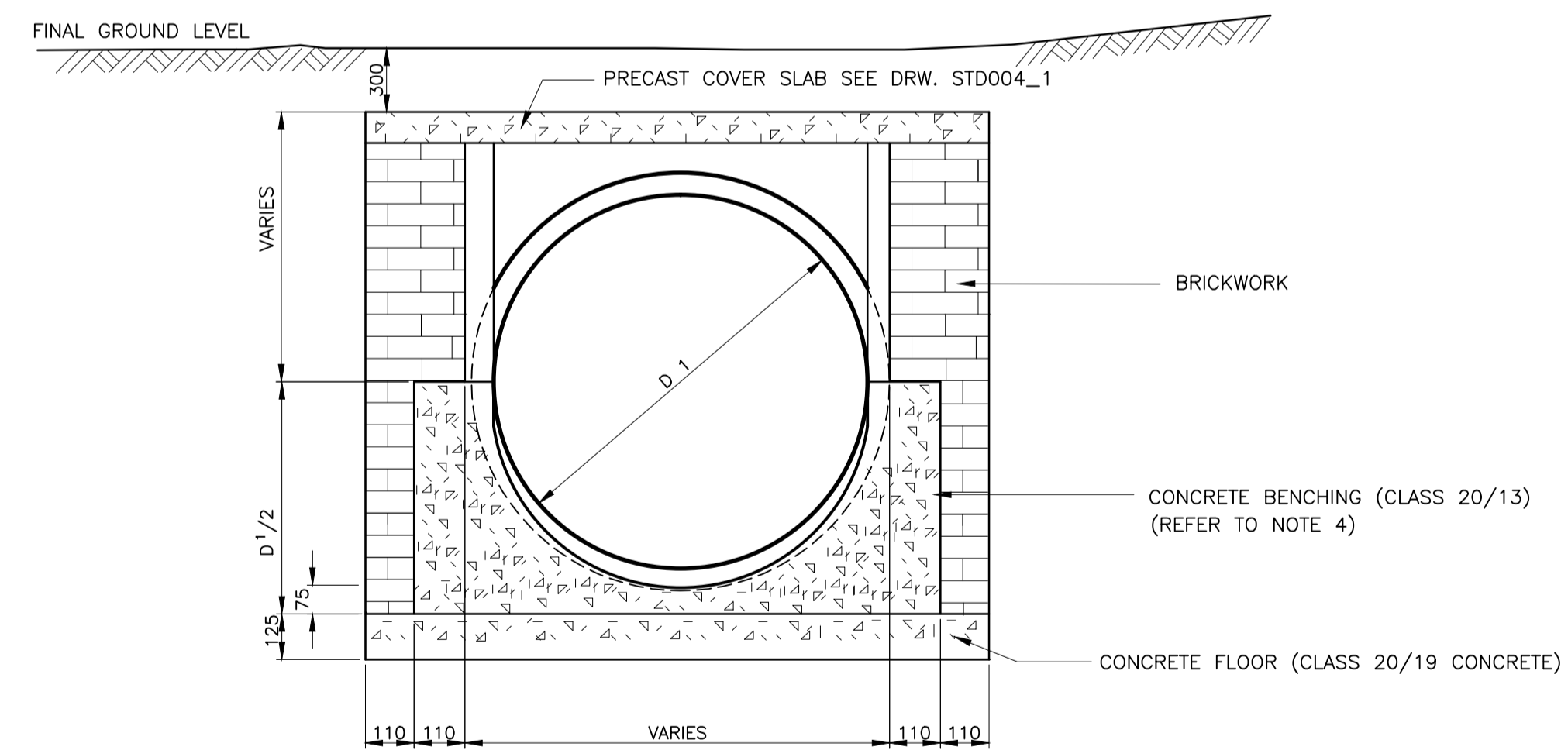
PLAN OF TYPE D JUNCTION BOX (WITHOUT COVER SLAB)  
D 1 = D 2 OR D 1 < D 2



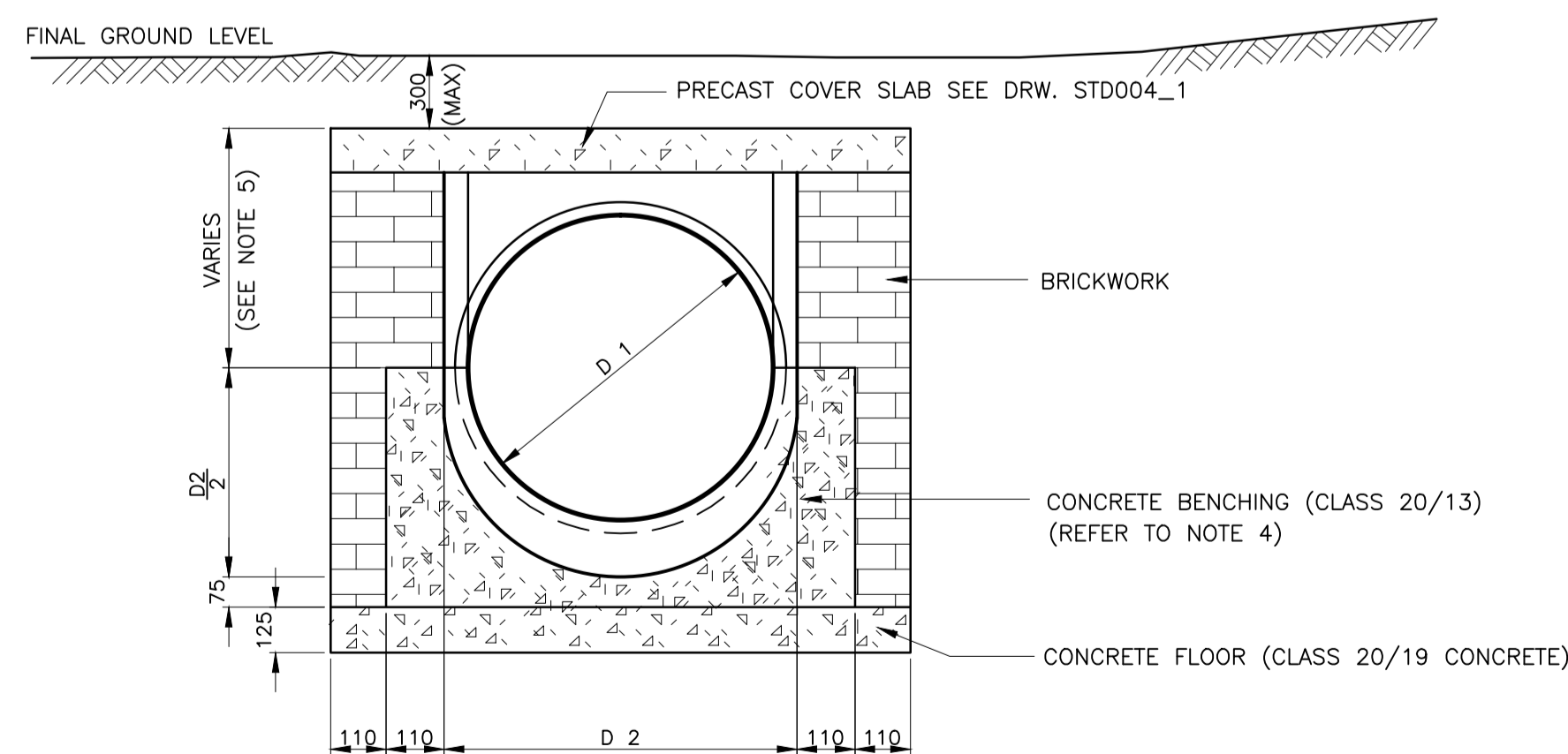
SECTION A-A

TABEL B

D 2 DIAMETER OF DOWN STREAM PIPE	DISTANCE P
450	700
525	700
600	750
675	780
750	800
825	825
900	850
1050	870
1200	925
1350	1000
1500	1100



SECTION D-D



SECTION B-B

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAR.

DESIGNED BY J. CRONJE	DRAWN BY S. AUDIE
DESIGN CHECKED BY S. NAIDOO	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS

**CITY OF TSHWANE**  
ROADS AND TRANSPORT DEPARTMENT

GROUP HEAD: Mr Letsoke P. (Pheko)  
P.O. BOX 1409  
PRETORIA 0001

DIVISIONAL HEAD: Mr Marven K. Thagale  
P.O. BOX 1409  
PRETORIA 0001

TRANSPORT INFRASTRUCTURE DESIGN AND CONSTRUCTION DIVISIONAL HEAD Mr K Thagale (Marven)	TRANSPORTATION PLANNING DIVISIONAL HEAD Mr L. Swanepoel (Lourens)
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____

DRAWING APPROVED BY GROUP HEAD  
Mr Letsoke P. (Pheko)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**TYPICAL STANDARD DETAILS**

**JUNCTION BOX AND MANHOLE DETAILS:  
TYPE D JUNCTION BOX**

CONTRACT No.: \_\_\_\_\_ PROJECT No.: \_\_\_\_\_

DATE: FEBRUARY 2017 SCALE: AS SHOWN ORIGINAL PAPER SIZE: A1

DRAWING NO: **STD004** SHEET NO: 5 OF 7

