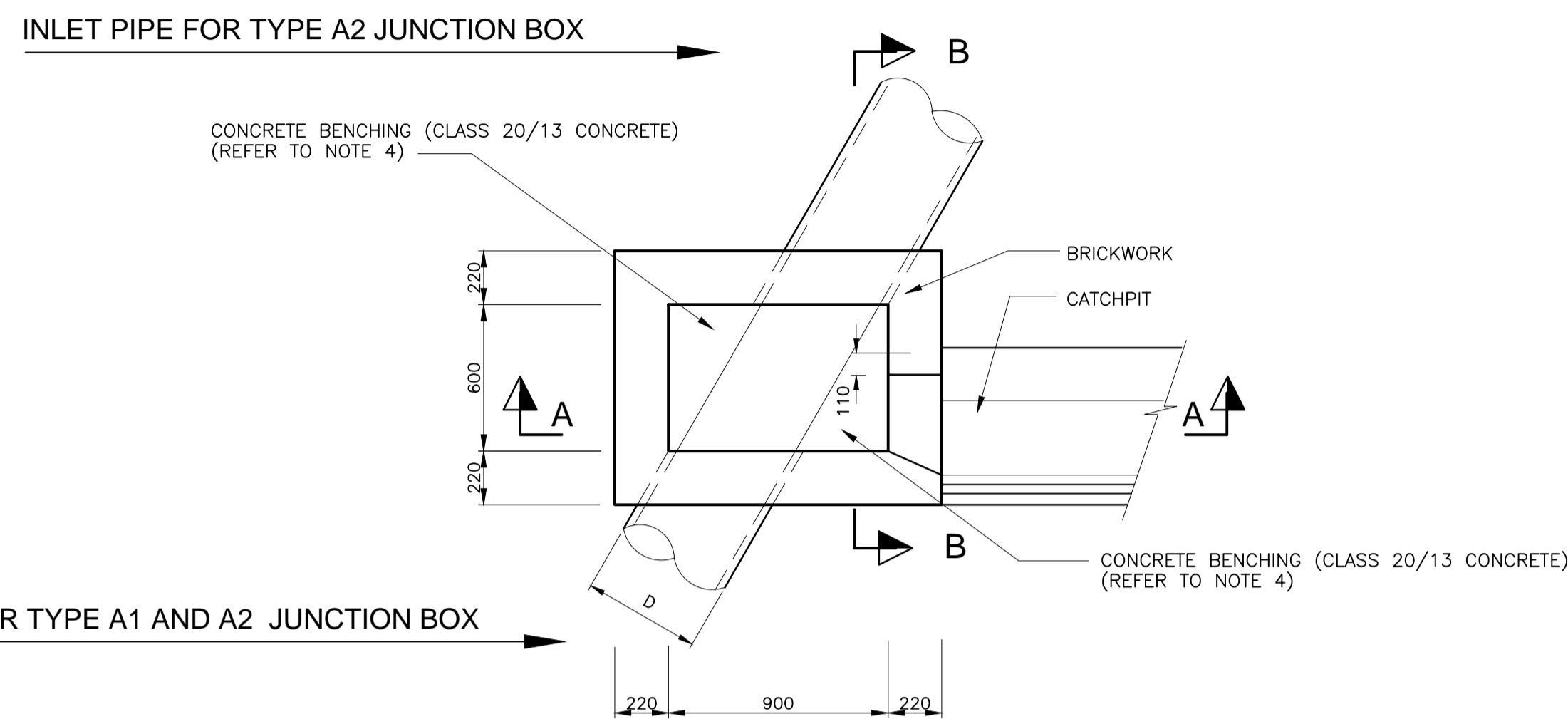
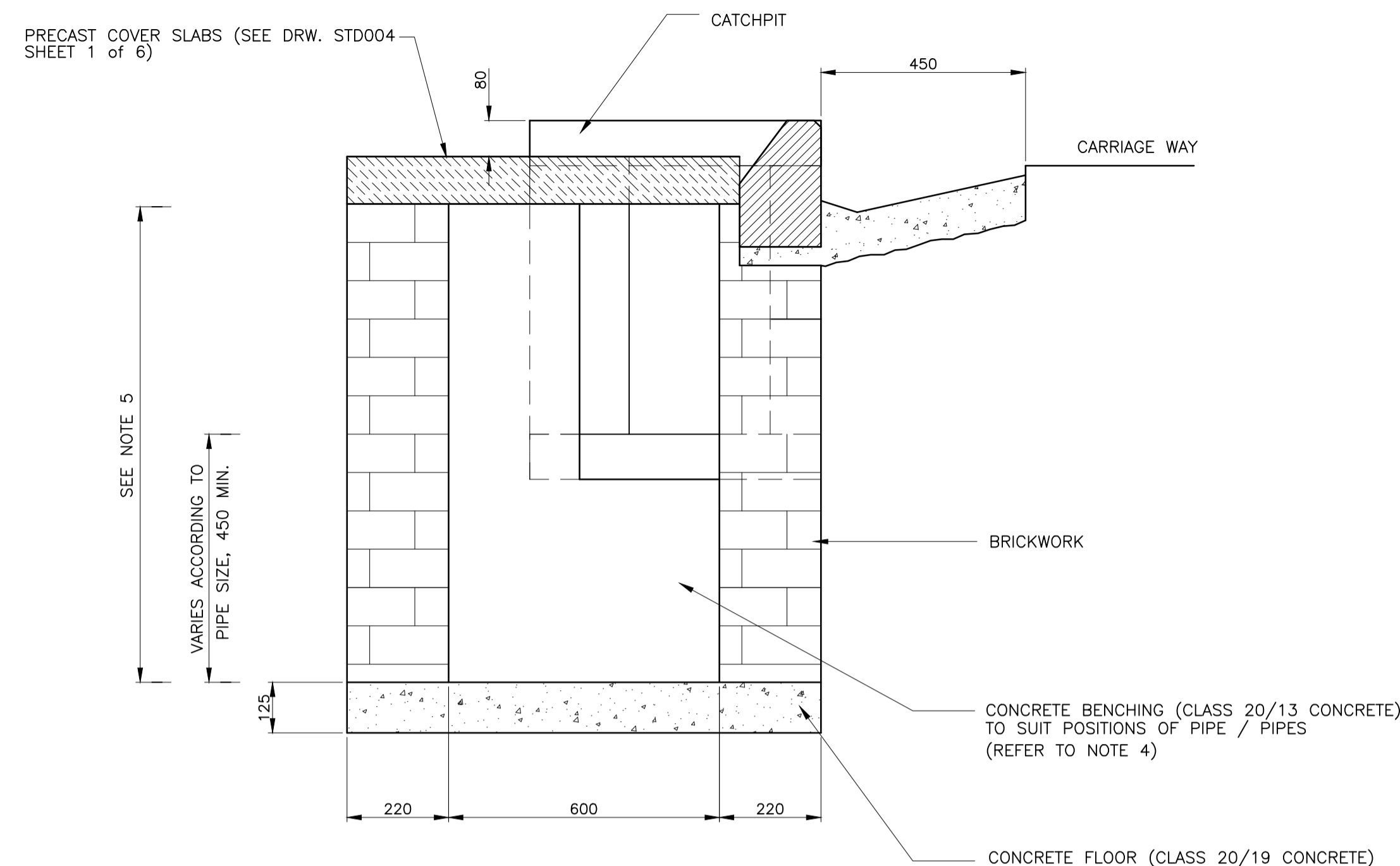


NOTES AND SPECIFICATIONS

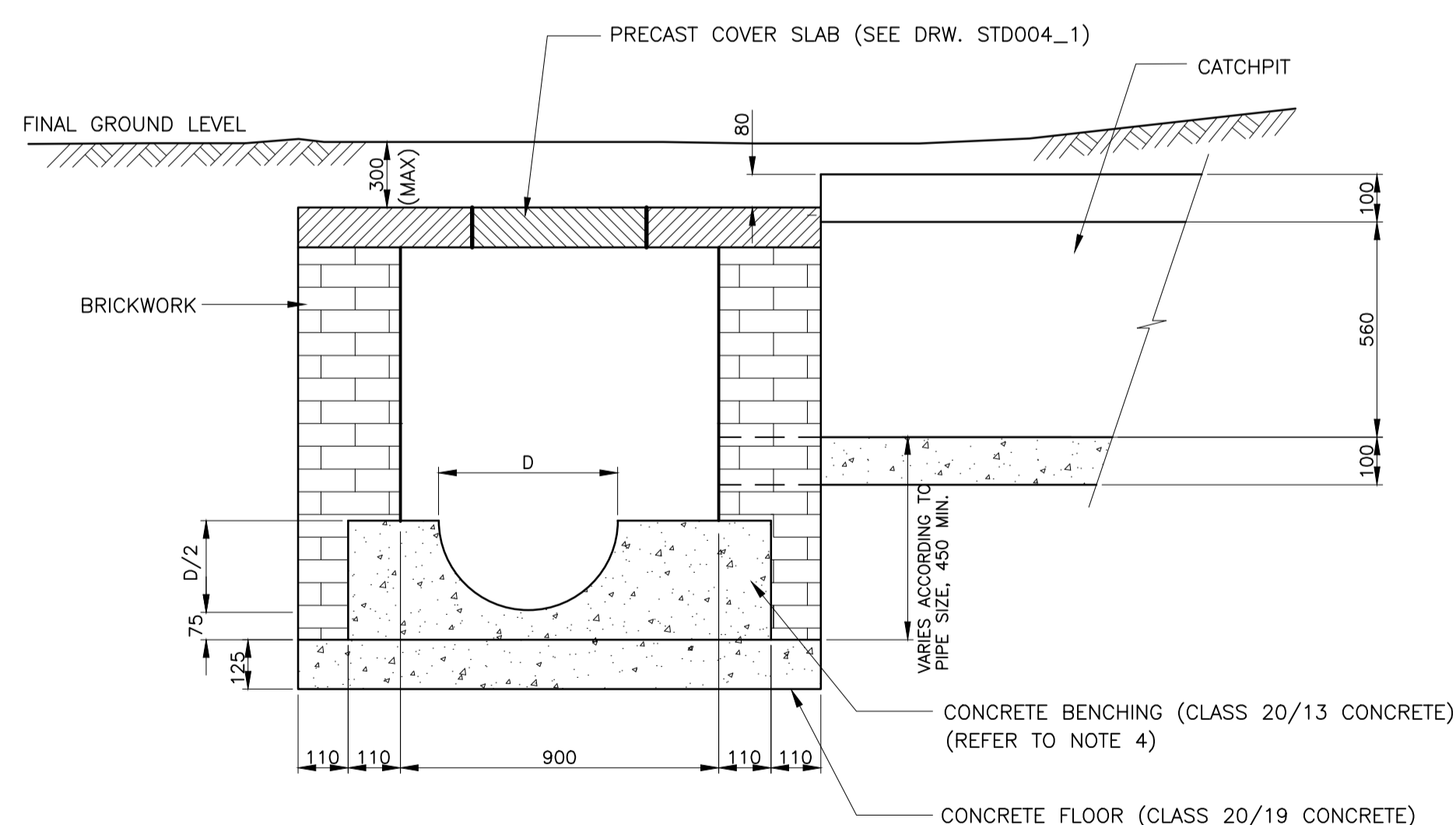
1. All stormwater pipes to be laid soffit to soffit
2. Minimum pipe diameter of pipes is 450mm.
3. Maximum angle between adjoining pipes is 60°.
4. Where a pipe wall is at least 75mm from the nearest junction box wall, the concrete benching can be started adjacent to the double brick wall.
5. Where the 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.
6. All bricks shall comply with SANS 227 and shall be engineering units of class FBS (face brick standard) with a nominal compressive strength of 12 MPA.
7. Also refer to Section 502 of the Standard Specifications for Municipal Civil Engineering Works, 3rd Edition, 2005.



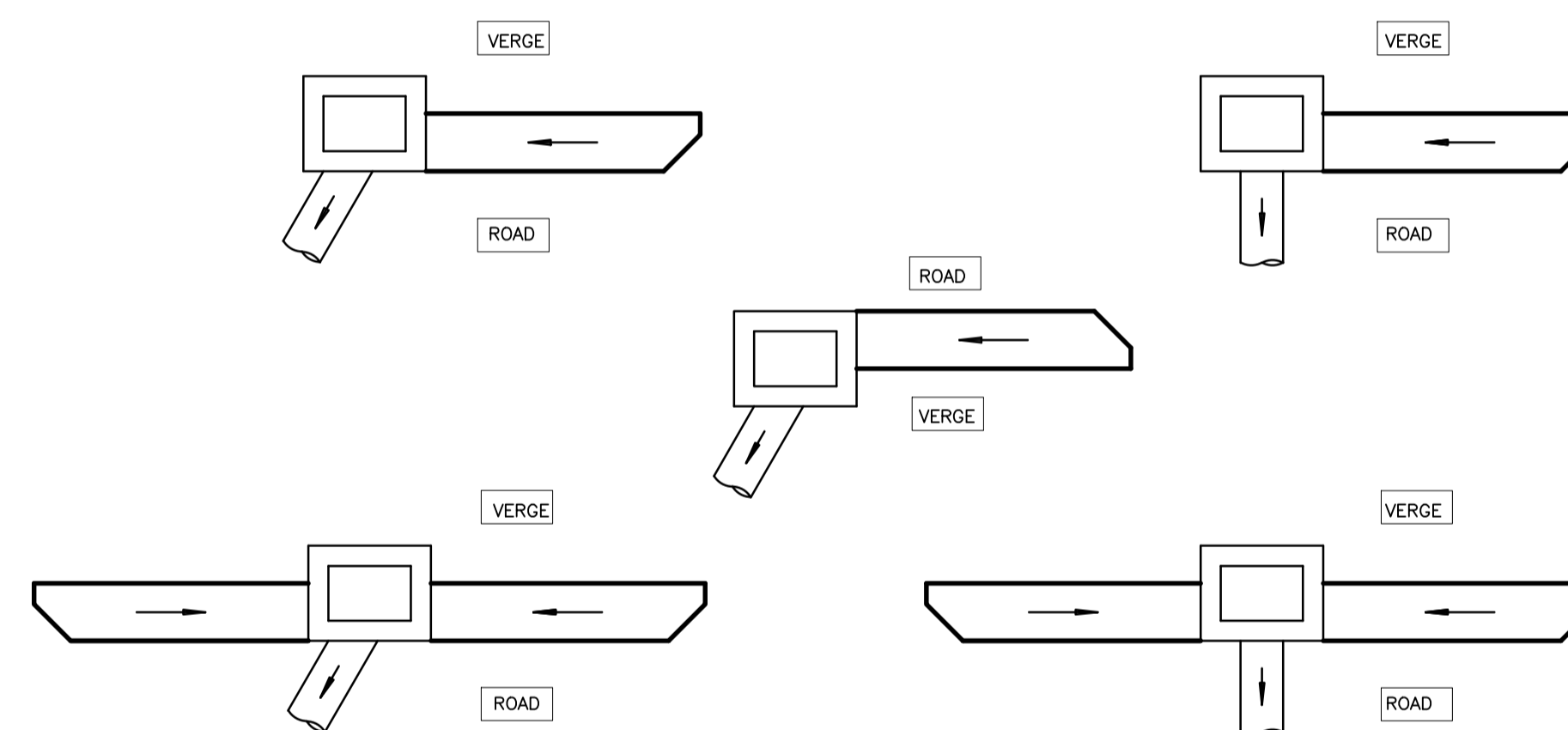
PLAN OF TYPE A JUNCTION BOX (WITHOUT COVER SLAB)



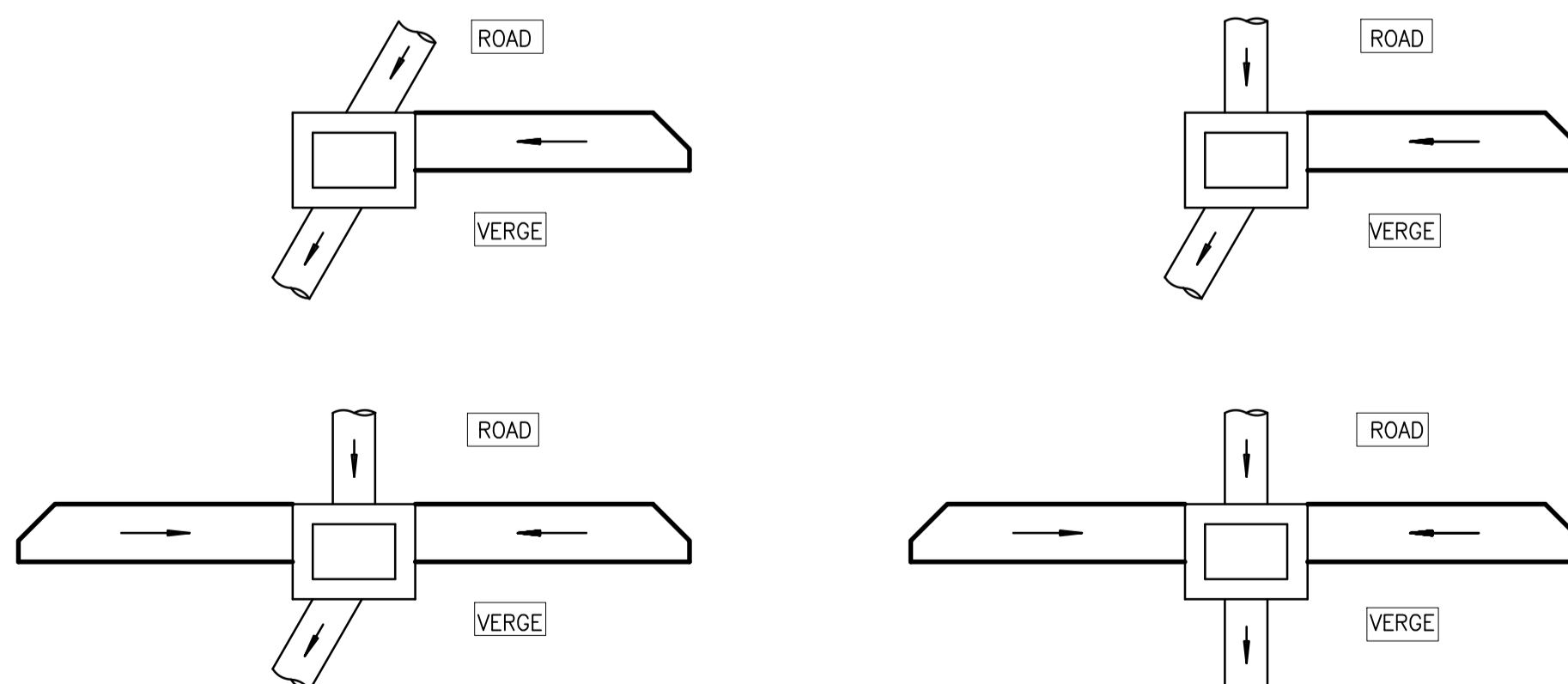
SECTION B-B
(CONCRETE BENCHING NOT SHOWN)



SECTION A-A
(INLET / OUTLET PIPES NOT SHOWN)



TYPE A1 JUNCTION BOX



TYPE A2 JUNCTION BOX

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAR.

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

CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
GROUP HEAD Mr Letloikane P. (Pheko) P.O. BOX 1409 PRETORIA 0001	DIVISIONAL HEAD Mr Marver K. Thagale P.O. BOX 1409 PRETORIA 0001

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

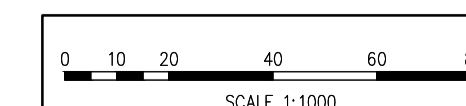
DRAWING APPROVED BY GROUP HEAD Mr Letloikane P. (Pheko)	
SIGNATURE: _____	DATE: _____

LOCATION OF PROJECT:	TYPICAL STANDARD DETAILS
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DESCRIPTION OF PROJECT:	MANHOLE DETAILS: TYPE A JUNCTION BOX
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CONTRACT No.:	PROJECT No.:
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DATE: MARCH 2022	SCALE: AS SHOWN	ORIGINAL PAPER SIZE: A1
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DRAWING NO. STD004	SHEET NO. 2 OF 7	REVISION
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