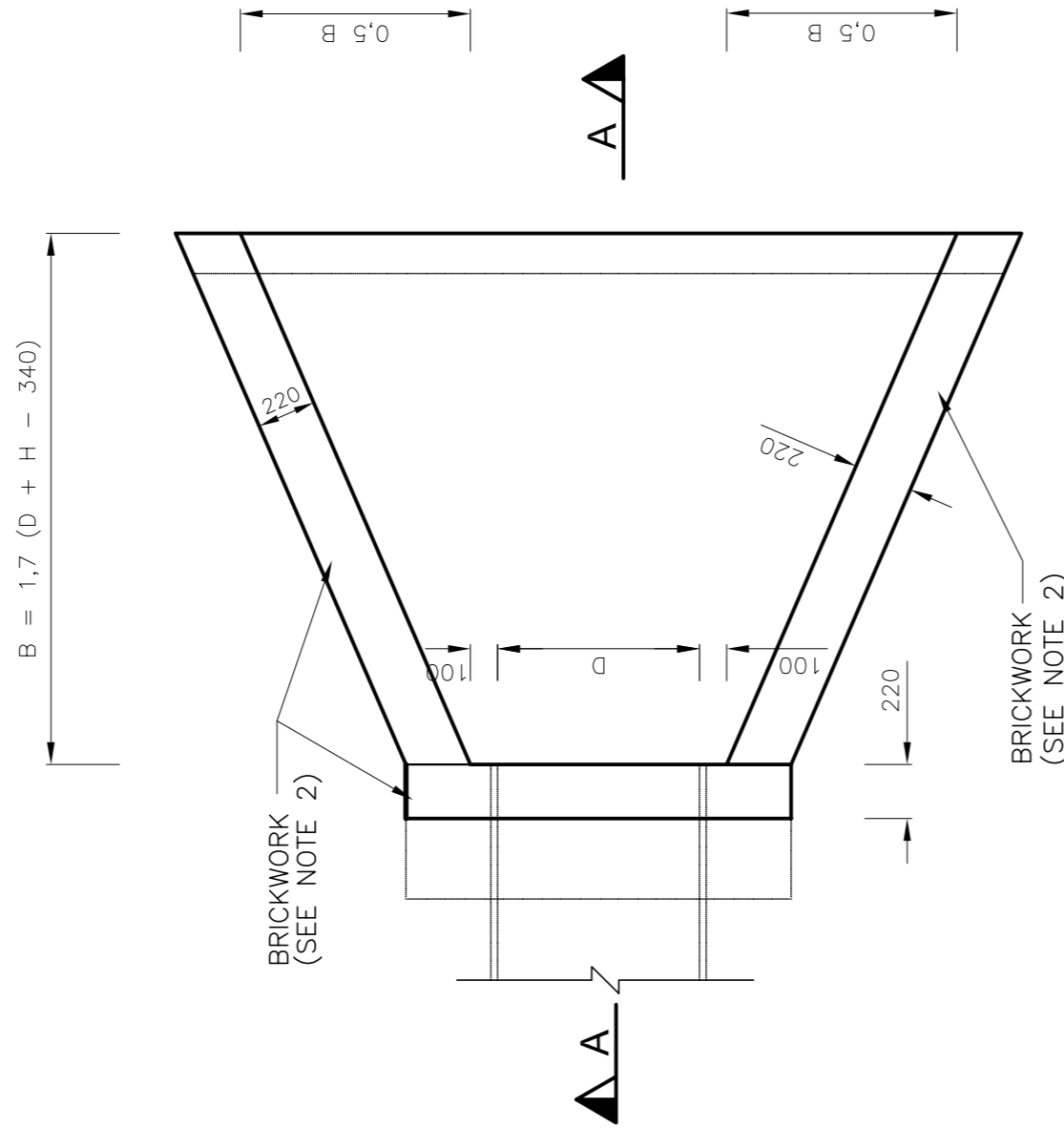
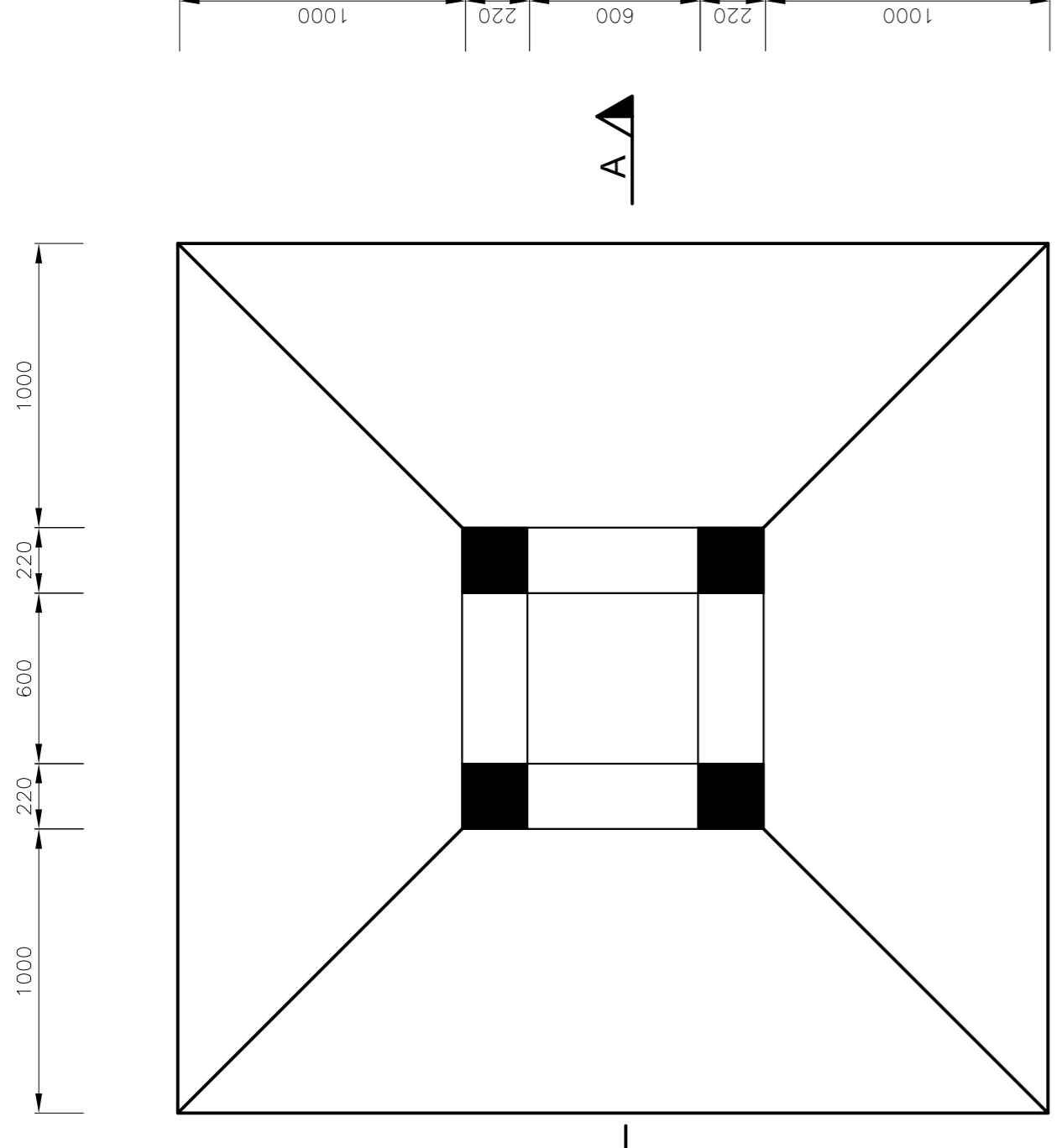


REFER TO NOTE 1 FOR APPLICATION OF TYPICAL STORMWATER OUTLET STRUCTURE

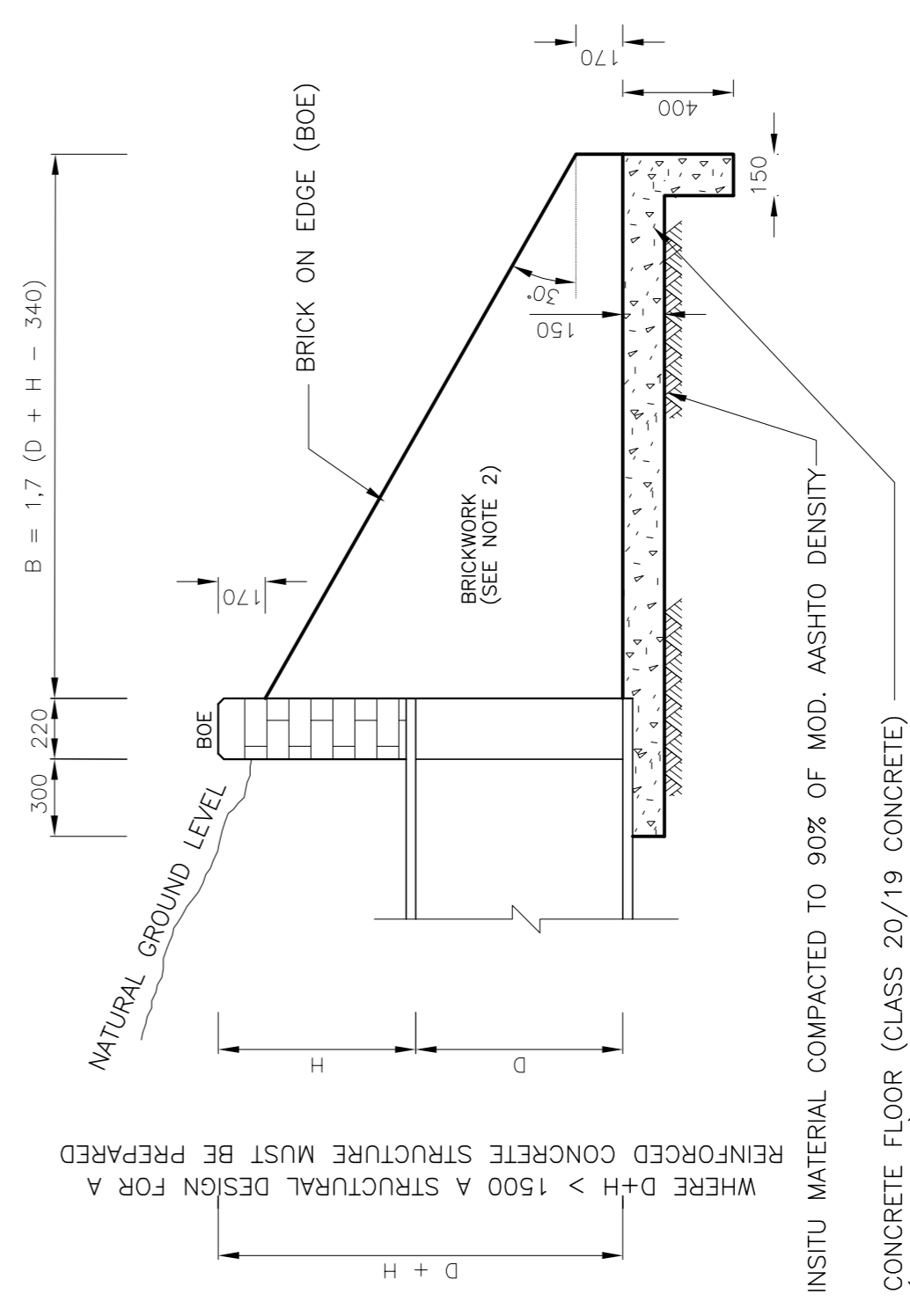
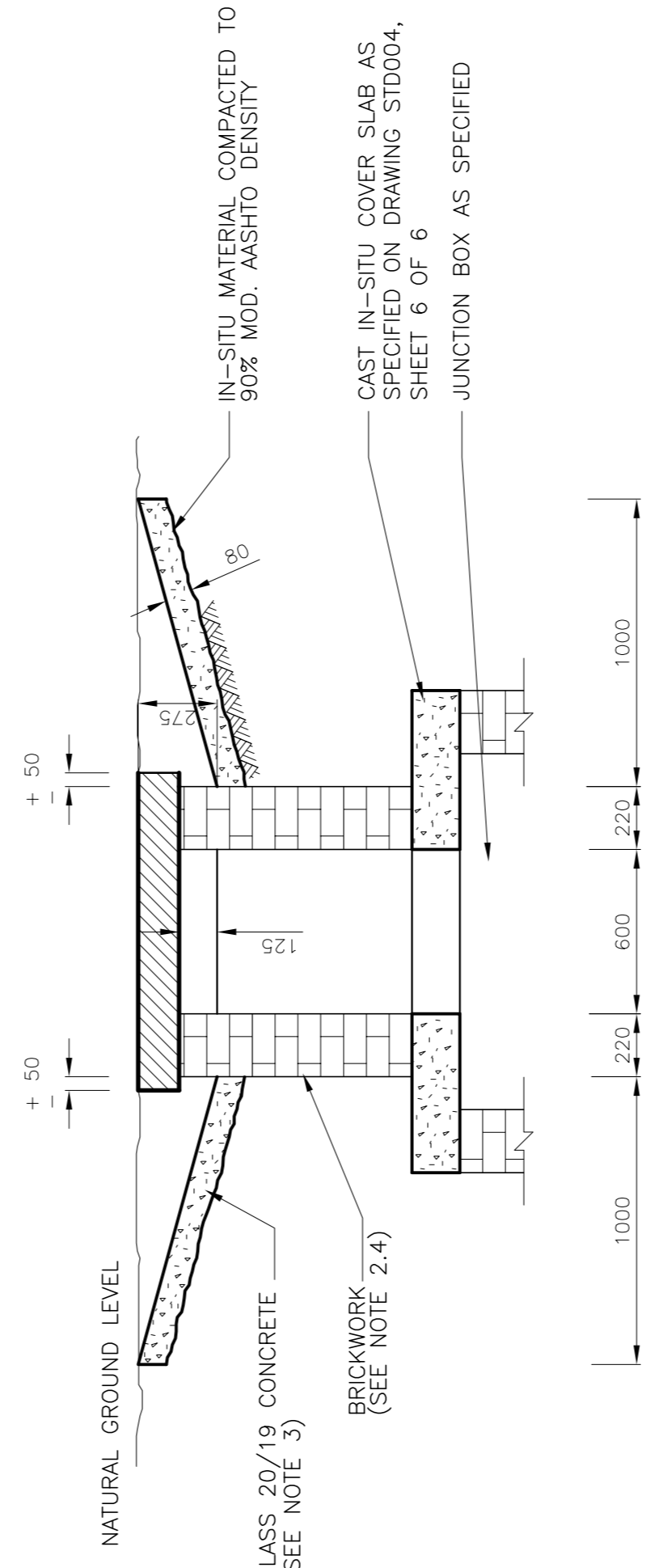
ELEVATION OF TYPICAL STORMWATER OUTLET STRUCTURE



PLAN OF TYPICAL STORMWATER OUTLET STRUCTURE



PLAN OF FIELD INLET (Without cover slab)

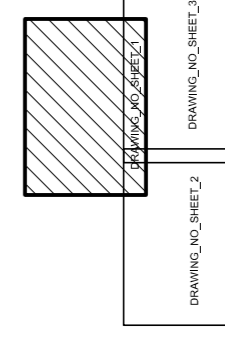


SECTION A-A

SECTION B-B

DETAIL OF PRECAST COVER SLAB

- NOTES**
- APPLICATION OF TYPICAL OUTLET STRUCTURE
 - THE TYPICAL STORMWATER OUTLET STRUCTURE HAS ONLY BE USED:
 - FOR FLOW VELOCITIES AT THE OUTLET PERMITS THE USE:
 - $D + H < 1500$
 - FOR HIGHER FLOW VELOCITIES THE STRUCTURE MUST BE MODIFIED OR ANOTHER TYPE OF STRUCTURE MUST BE USED, ACCORDING TO THE SPECIFICATIONS OF THE ENGINEER.
 - NO SCOURING OR EROSION MAY OCCUR DOWNSTREAM OF THE OUTLET STRUCTURE.
 - FOR LARGER STRUCTURES, A STRUCTURAL REINFORCED CONCRETE DESIGN IS REQUIRED.
 - MASONRY WALLS OF OUTLET STRUCTURE
 - MASONRY WALLING SHALL CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF SANS 10164-1
 - MORTAR SHALL BE CLASS II (COMPRESSIVE STRENGTH OF 7 MPa AT 28 DAYS).
 - THE REQUIREMENTS SET OUT IN APPENDIX B OF SANS 10164-1, SHALL BE ADHERED TO UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER.
 - ALL BRICKS SHALL COMPLY WITH SANS 227 AND SHALL BE MANUFACTURED UNDER THE SUPERVISION OF A QUALIFIED PERSON (FACE BRICK STANDARD) WITH A NOMINAL COMPRESSIVE STRENGTH OF 12 MPa.
 - CONCRETE
 - ALL CONCRETE TO BE CURED FOR A MINIMUM PERIOD OF 7 DAYS.



SHEET LAYOUT

PROJECT STATUS	
<input type="radio"/> DESIGN <input type="radio"/> DRAWING <input type="radio"/> CONTRACTOR <input type="radio"/> AS BUILT	<input type="radio"/> DESIGN <input type="radio"/> DRAWING <input type="radio"/> CONTRACTOR <input type="radio"/> AS BUILT
PROJECT ENGINEER	DATE
INSPECTOR OF WORKS	DATE
REMARKS	ORIGINAL PAPER SIZE: A1
DRAWING NO.	PROJECT NO.
<input type="checkbox"/> REVISION <input type="checkbox"/> REVISION <input type="checkbox"/> REVISION	<input type="checkbox"/> REVISION <input type="checkbox"/> REVISION <input type="checkbox"/> REVISION

TYPICAL STANDARD DETAILS	
STORMWATER INLET & OUTLET STRUCTURES	
FIELD INLET AND STORMWATER OUTLET	
DRAWING COMPILED BY: P. A. ODENDAL P. Eng. DRAWING CHECKED BY: P. A. ODENDAL P. Eng. DRAWING APPROVED BY EXECUTIVE DIRECTOR: MS. L. MCHUNU	LOCATION OF PROJECT: DESCRIPTION OF PROJECT:
WATER AND SANITATION For Internal Approval For Water Supply PROJECT MANAGER: P. A. ODENDAL P. Eng. PROJECT ENGINEER: P. A. ODENDAL P. Eng. PROJECT ENGINEER: P. A. ODENDAL P. Eng.	CONTRACT NO.: SHEET NO.: 1 OF 1 PROJECT NO.: DATE: NOV 2009

CITY OF TSHWANE PUBLIC WORKS & INFRASTRUCTURE DEVELOPMENT ACTING: V. KOBUIWE STRATEGIC EXECUTIVE DIRECTOR	WATER AND SANITATION EXECUTIVE DIRECTOR: F. J. SHERRIFF P.O. BOX 1400 PRETORIA
ROADS AND STORMWATER EXECUTIVE DIRECTOR: MS. L. MCHUNU P.O. BOX 1400 PRETORIA	CITY OF TSHWANE WATER AND SANITATION EXECUTIVE DIRECTOR: F. J. SHERRIFF P.O. BOX 1400 PRETORIA

AMENDMENTS	
NR	DATE
APPROVED	DESCRIPTION
AMENDMENTS	
CONSULTANTS DETAIL	