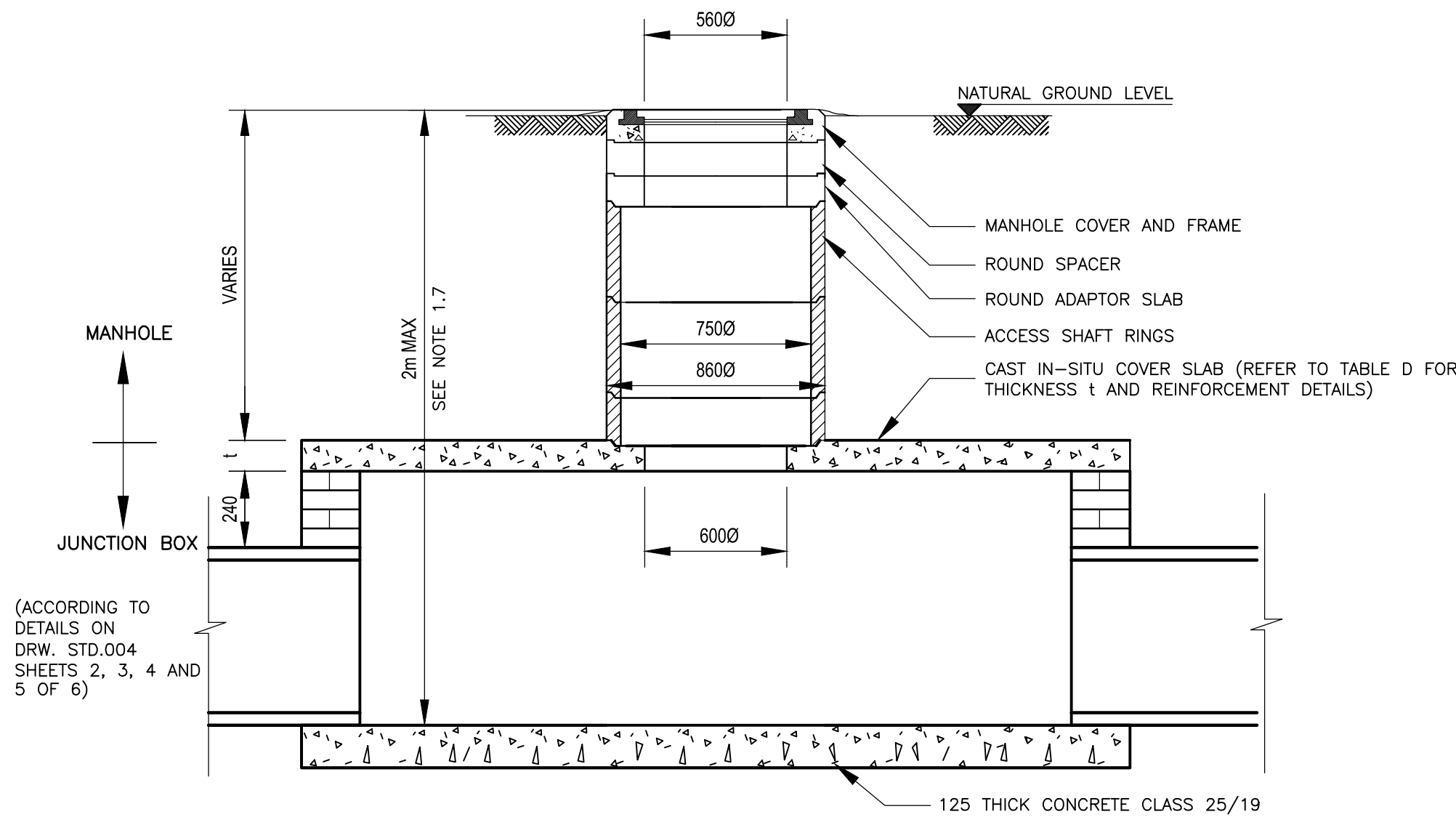
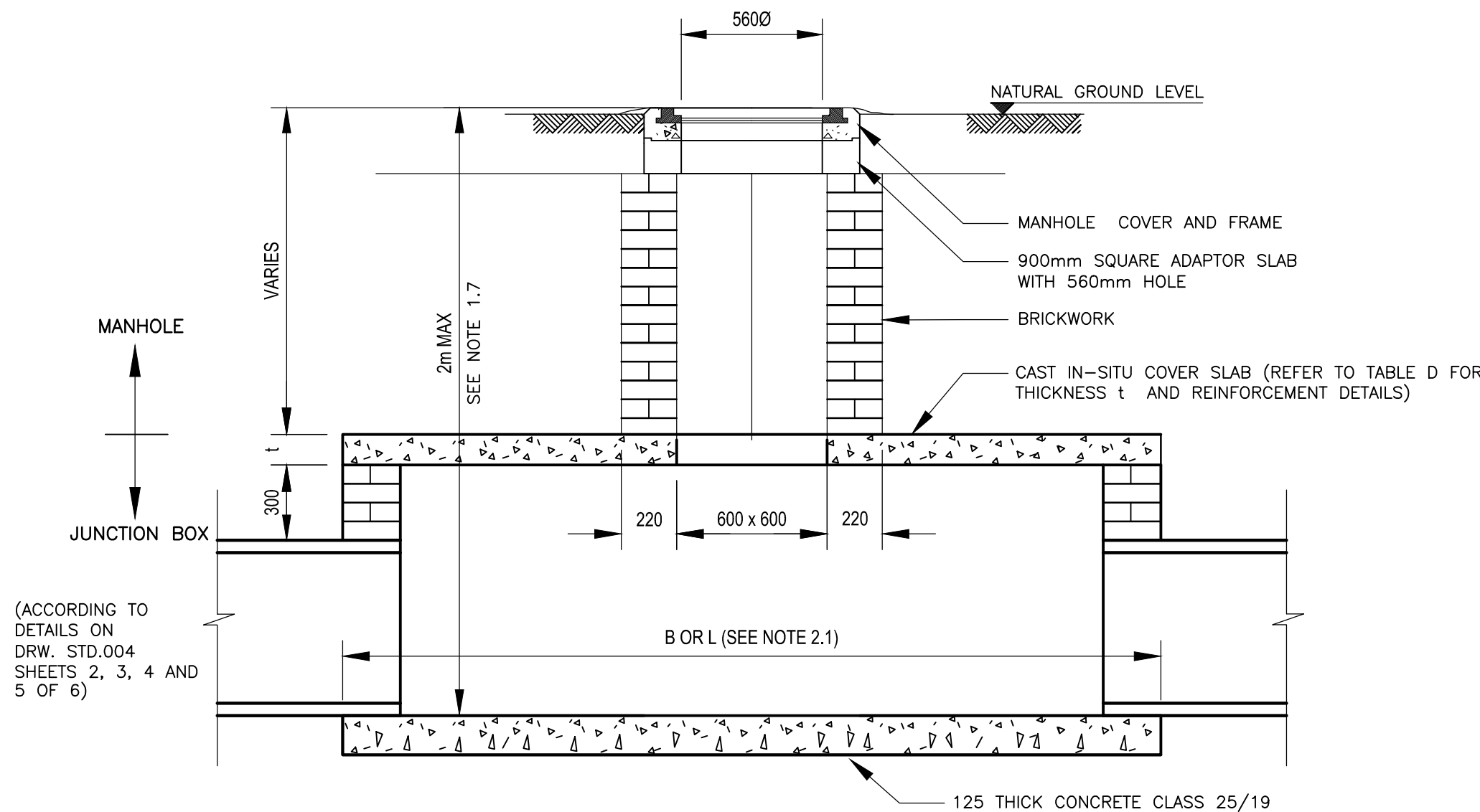


TYPICAL CROSS SECTION THROUGH JUNCTION BOX
AND MANHOLE

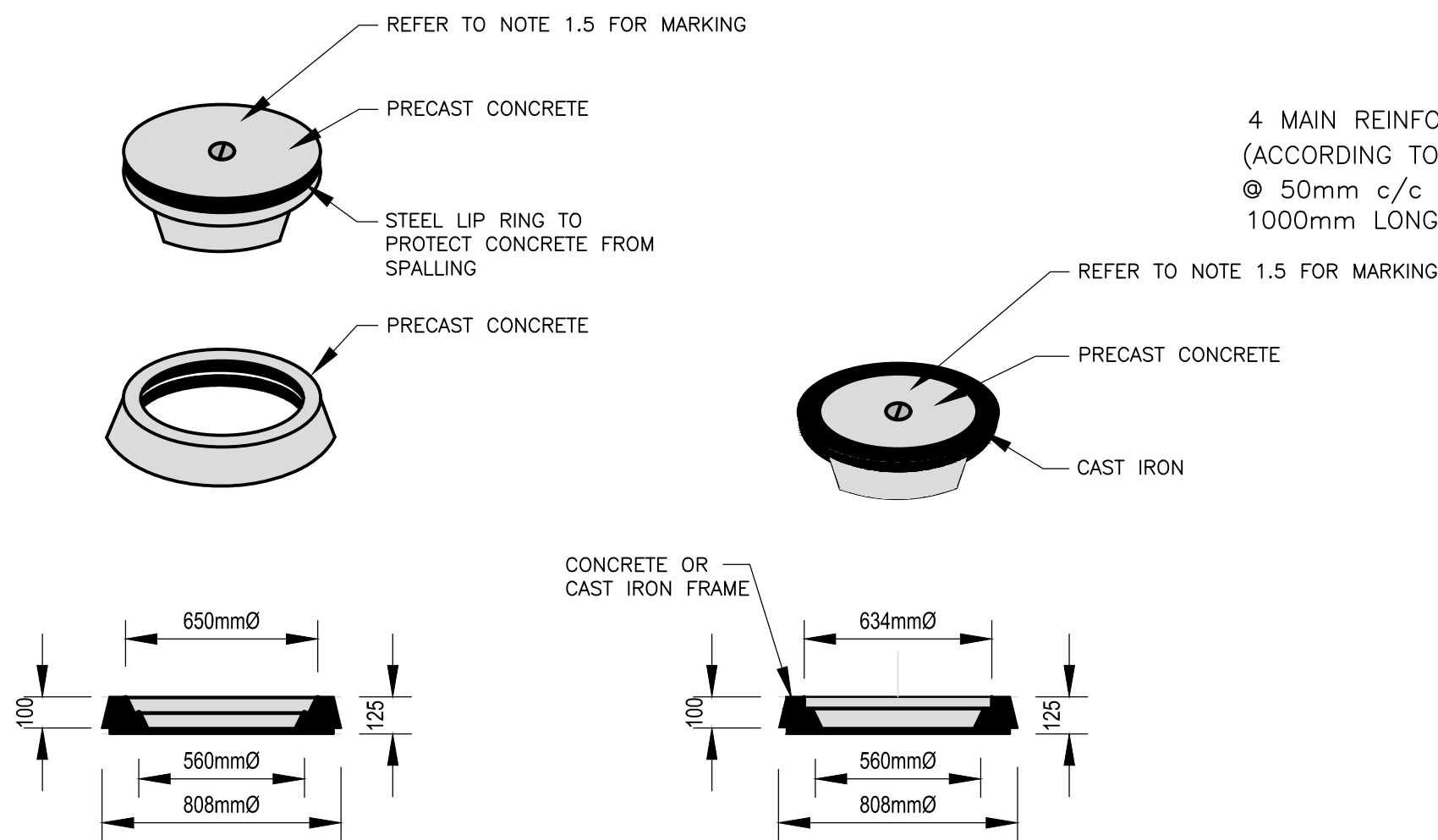


MANHOLE WITH PRECAST SHAFT



MANHOLE WITH MASONRY SHAFT

MANHOLE FRAME AND COVER

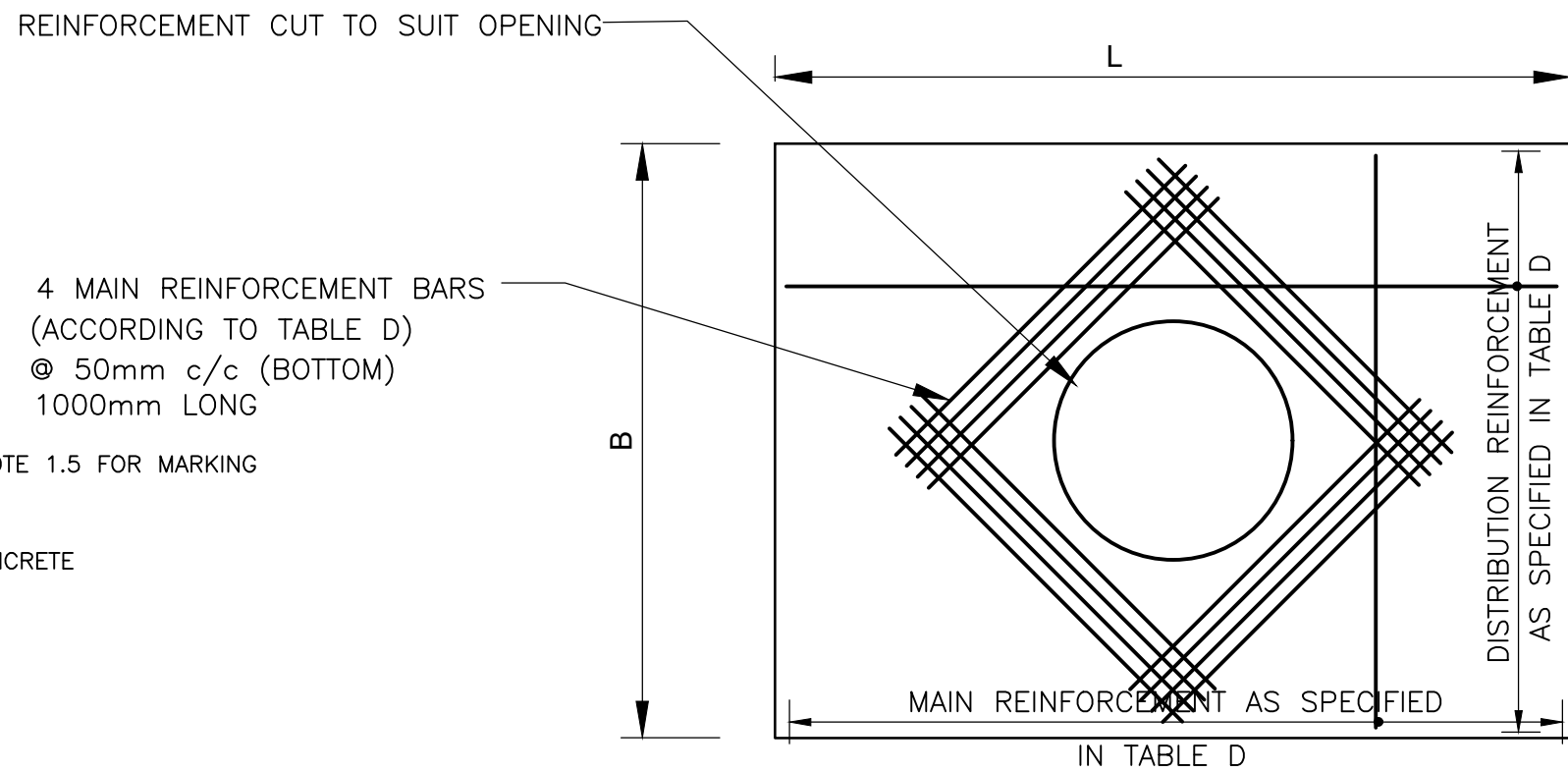


PRECAST CONCRETE
FRAME AND COVER

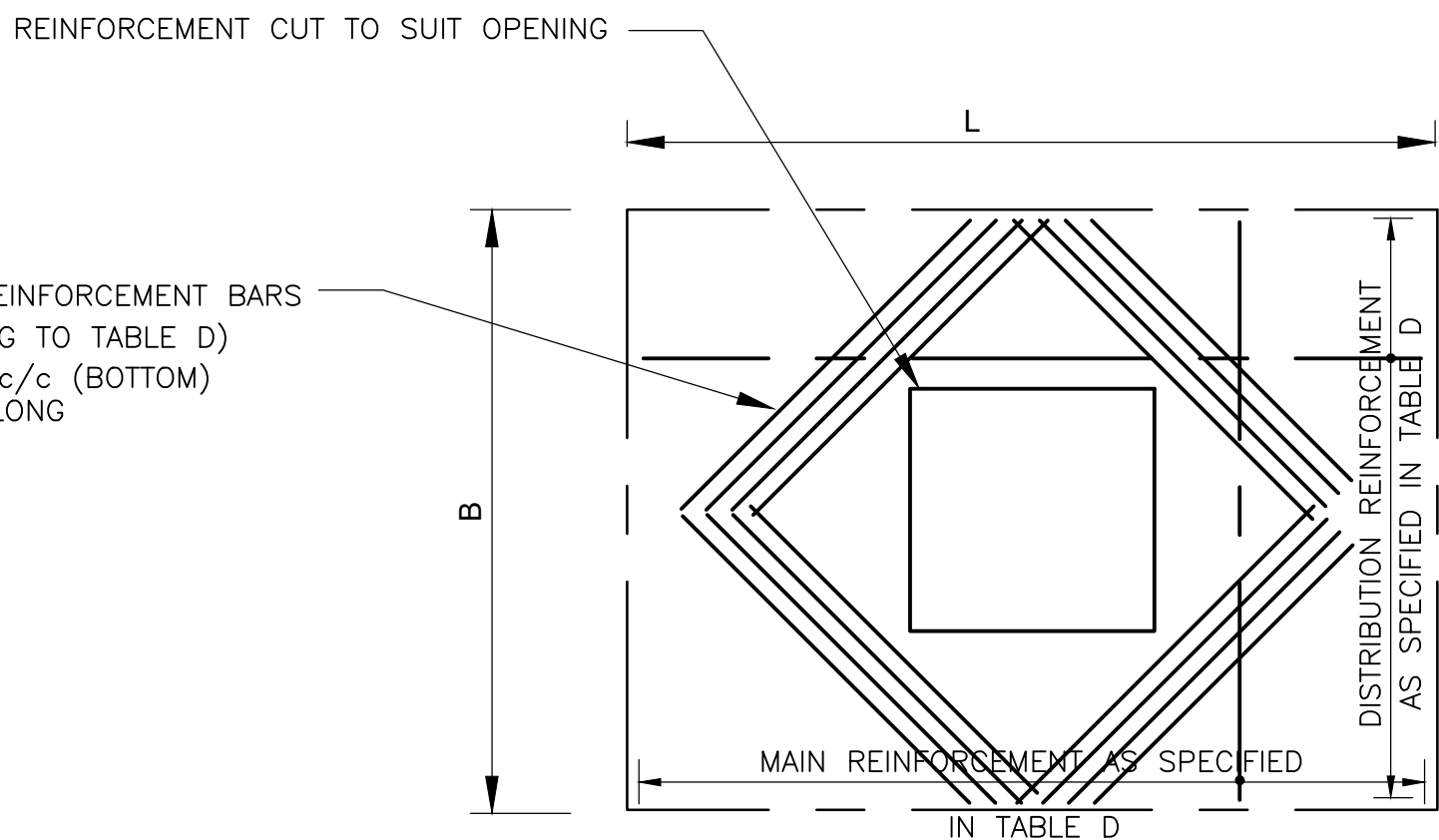
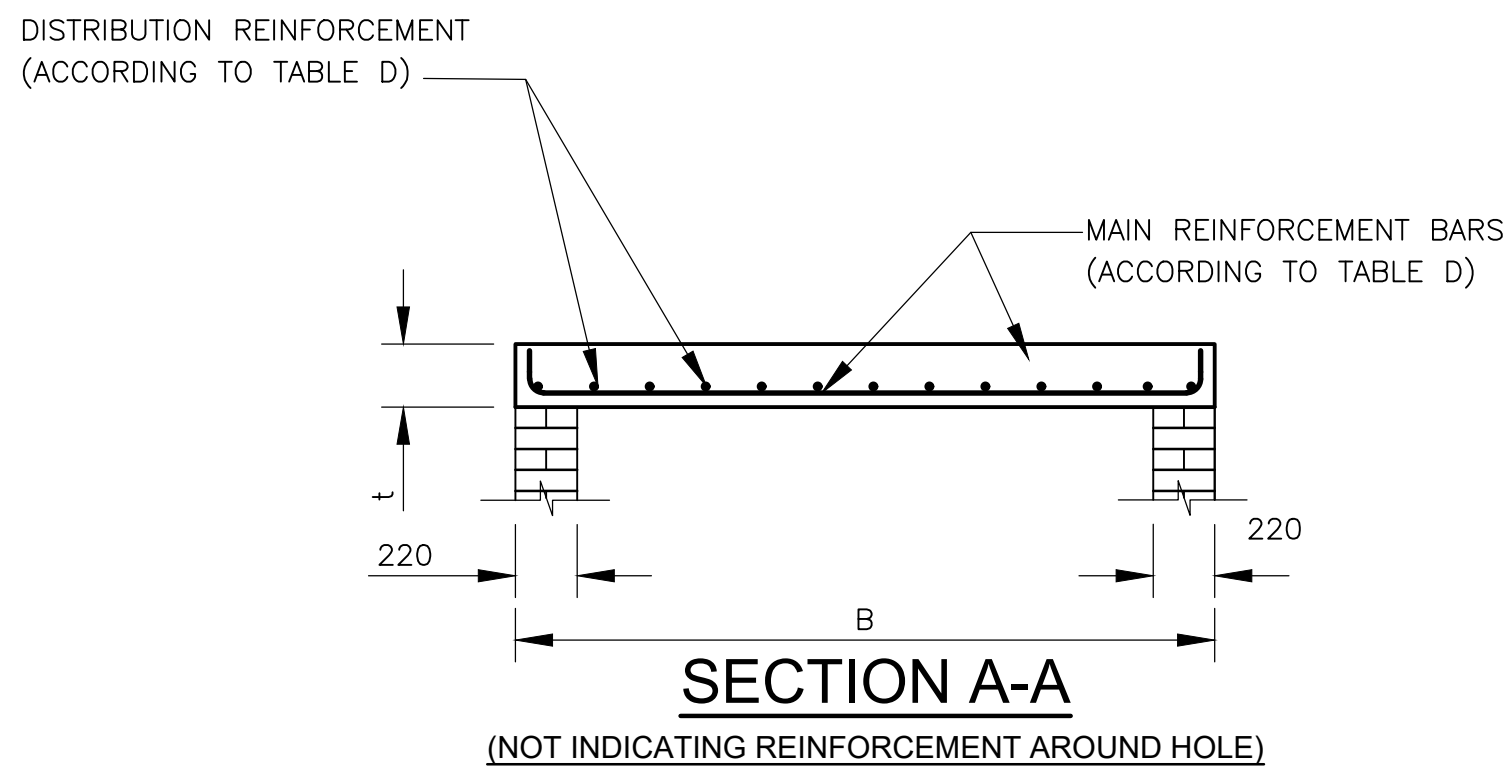
COMBINATION PRECAST
CONCRETE / CAST IRON
FRAME AND COVER
(SEE NOTE 1.5)

TABLE C: USE OF MANHOLES AT JUNCTION BOXES	
APPLICATION	TYPE OF COVER AND FRAME
At junction boxes falling underneath the carriage way.	SABS Type 4 Cast Iron Heavy duty
At least every 100m on long inaccessible stormwater lines.	SABS Type 4 Precast Concrete Medium duty
At junction boxes falling underneath block or concrete paving on the sidewalk.	SABS Type 4 Precast Concrete Medium duty
At junction boxes where the main stormwater line changes course	SABS Type 4 Precast Concrete Medium duty
At junction boxes indicated otherwise on the drawings or specified by the Engineer.	SABS Type 4 As specified

TABLE D: REINFORCEMENT DETAILS FOR CAST IN-SITU COVER SLABS (Note: B < L)		
Span (B) (mm)	Thickness (t) (mm)	Main Reinforcement
Up to 1500	175	Y12 - 120
Up to 2500	200	Y16 - 150
Up to 3000	225	Y16 - 150
> 3000	Design to be submitted	
Distribution reinforcement: Y12 bars @ 200 c/c		
Refer to notes for bending details.		



CAST INSITU COVER SLAB FOR CIRCULAR
SHAFT SECTION



CAST INSITU COVER SLAB FOR SQUARE
SHAFT SECTION

- MANHOLE:
 - 1.1 ALL PRECAST MANHOLE SECTIONS SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF SANS1294.
 - 1.2 NO STEP IRONS SHALL BE REQUIRED UNLESS OTHERWISE INDICATED ON THE DRAWING.
 - 1.3 DIMENSIONS OF THE PRECAST MANHOLE SECTIONS ARE APPROXIMATE AND MAY VARY SLIGHTLY ACCORDING TO DIFFERENT MANUFACTURER'S SPECIFICATIONS.
 - 1.4 THE FUNCTION OF THE COMBINATION PRECAST CONCRETE/CAST IRON MANHOLE COVER IS TO REPLACE LOST CAST IRON COVERS, UNLESS OTHERWISE SPECIFIED.
 - 1.5 ALL CONCRETE MANHOLE COVERS SHALL HAVE THE LETTERS "SW" FORMED OR ENGRAVED ON TOP. EACH LETTER SHALL BE 50mm WIDE, 75mm HIGH AND 5mm THICK
 - 1.6 MANHOLE COVERS AND FRAMES MADE OF OTHER MATERIALS, LIKE POLYMER CONCRETE, MUST COMPLY WITH THE RELEVANT SANS SPECIFICATIONS. BE APPROVED BY THE ENGINEER IN WRITING AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
 - 1.7 WHERE THE TOTAL DEPTH OF THE JUNCTION BOX/MANHOLE COMBINATION (INVERT LEVEL TO FINISHED GROUND LEVEL) EXCEEDS 2.0m, A STRUCTURAL DESIGN MUST BE SUBMITTED BY A PROFESSIONAL ENGINEER.
- CAST IN-SITU COVER SLABS:
 - 2.1 MEASUREMENT B IS ALWAYS SMALLER THAN L.
 - 2.2 CONCRETE TO BE CLASS 25/19.
 - 2.3 CONCRETE TO BE CURED FOR A MINIMUM PERIOD OF 7 DAYS.
 - 2.4 MINIMUM COVER OF REINFORCEMENT IS 20mm



MAQUASSI HILLS LOCAL
MUNICIPALITY

PRIVATE BAG X3 TEL: 018 596 1068
WOLMARANSSTAD FAX: 018 596 1555
2630

AMENDMENTS

REV	DATE	APPROVED	DESCRIPTION
A	SEPT 2026	G.A.M	ISSUE FOR TENDER

CONSULTANT DETAIL

DITLOU CONSULTING CC
OFFICE 19 EAST 202
SANLYNN OFFICE PARK
CNR ALKANTRAND &
LYNNWOOD ROAD
PO BOX 15684
LYNN EAST
0039
TEL: (012)548-0196
FAX: (012)548-0298
EMAIL: info@ditloucon.co.za

I, **G. MANYIKA** Prof Reg Nr. **2024301981**
HEREBY CERTIFY THAT THE SERVICES WILL BE INSTALLED
ACCORDING TO THE DRAWING

DATE SIGNATURE



DESIGNED

NAME: **L.MODISHA**... Prof Reg No.:
SIGNATURE:..... DATE:.....

DRAWN

NAME: **L.MODISHA**...
SIGNATURE:..... DATE:.....

CHECKED

NAME: **G. MANYIKA**... Prof Reg No.: **2024301981**.....
SIGNATURE:..... DATE:.....

INFORMATION OFFICE CHECKED

NAME:.....
SIGNATURE:..... DATE:.....

DESIGN OFFICE APPROVAL

NAME:..... Prof Reg No.:
SIGNATURE:..... DATE:.....

CONTRACT No.

8/1/2 N.J. MBONANI
PROJECT No.

SHEET No. **1**

PAPER SIZE

A1

SCALE

AS SHOWN

DATE:

SEPT 2026

LOCATION OF PROJECT

DESIGN AND SUPERVISION OF UPGRADING OF
GRAVEL ROAD TO BLOCK PAVING AT KALANGA
MOLALE, WILLIAM OLIFANT STREETS IN LEBALENG

DRAWING NAME:

MANHOLE DETAILS

CONTRACT NUMBER:

8/1/2 N.J. MBONANI

DRAWING NUMBER

1145K - 2 - 05D07

PROJECT STATUS

☐ CONCEPT
DRAWING ☒ TENDER
DRAWING ☐ CONSTRUCTION
DRAWING ☐ AS BUILT
DRAWING

PROJECT ENGINEER of MHLM:

NAME SIGNATURE

Prof Reg No. DATE

INSPECTOR OF WORKS of MHLM:

SIGNATURE

NAME DATE