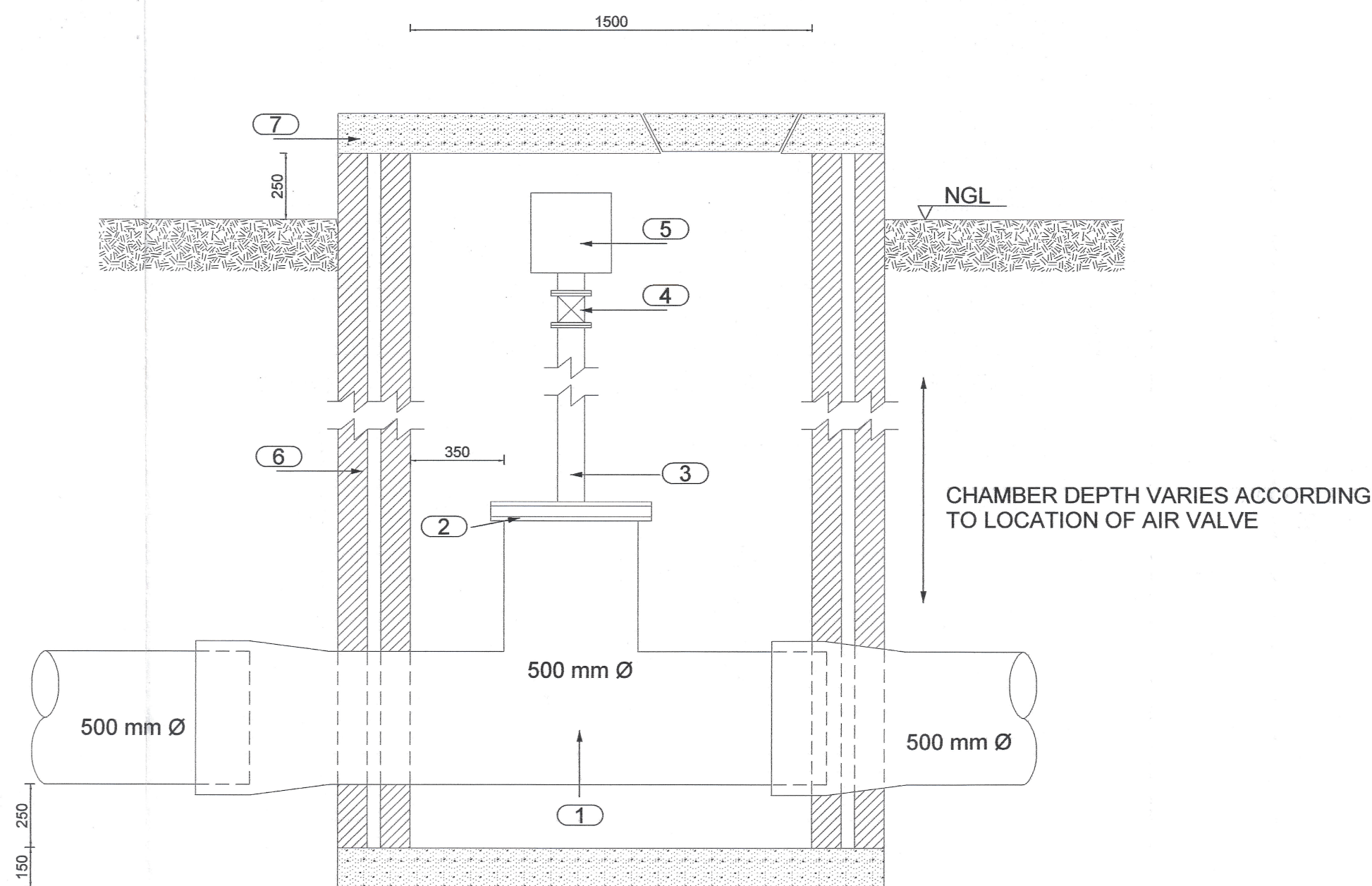
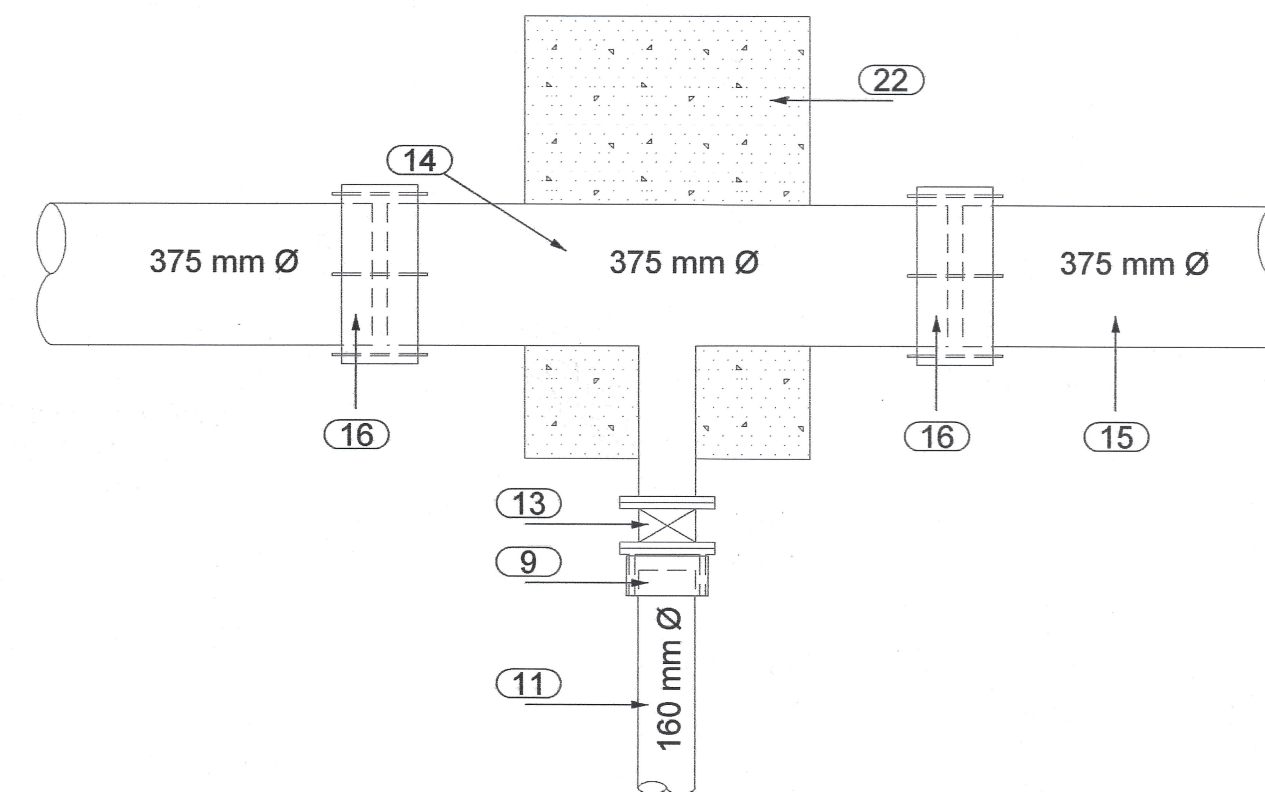


NOTES:

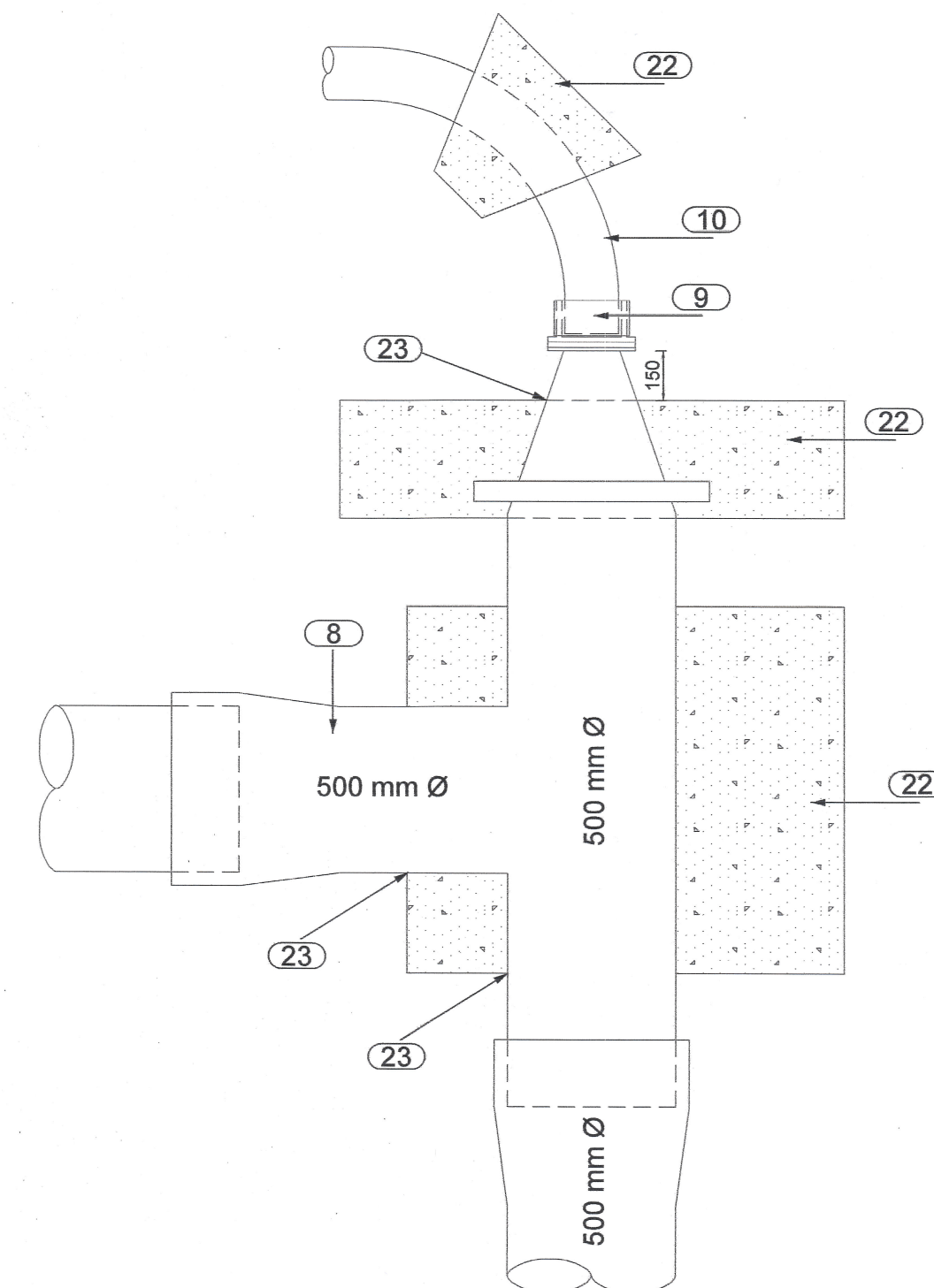
- 1 500x500x400mm GRP Tee with Bell and Spigot and flanged branch with backing ring.
- 2 Hot dipped galvanized backing ring.
- 3 400x100mm Flanged Reducer (Rilsan coated). Length varies according to AV location
- 4 100mm ND Flanged Resilient Seal Gate Valve. (FBE coated)
- 5 Flanged 100mm Double action air valve.
- 6 1500 x 1500 Brick chamber
- 7 Concrete roof slab with concrete lid.
- 8 500x160x500 GRP Tee with 1 x 500mm Bell end 1 x 500mm spigot end plus 160mm reduced flanged end (with backing ring and thrust puddle).
- 9 160mm VJ flange adaptor (Rilsan coated)
- 10 160mm uPVC long radius bend.
- 11 160mm uPVC pipe.
- 12 400 mm VJ flange adaptor (Rilsan coated)
- 13 150mm ND Flanged Resilient Seal Gate Valve (FBE coated)
- 14 375x375x150 Mild Steel Tee (Rilsan coated) with Spigot ends to match existing 375 AC pipe and with Flanged branch.
- 15 Existing 375mm AC pipe.
- 16 375 mm short collar coupling (Rilsan coated)
- 17 500x500x400mm GRP Tee with 500 Ø Bell end and reduced flanged end 400 Ø (with backing ring) and flanged 400mm branch (with backing ring).
- 18 400mm Butterfly valve with gearbox.
- 19 400mm Butterfly valve with gearbox (To be supplied by NMBM)
- 20 400mm Mild Steel end plate (Rilsan coated).
- 21 500 mm Ø 90° GRP bend with bell and spigot end.
- 22 All concrete thrust block dimensions to be finalised once soil conditions have been determined on site. All thrust blocks to be cast against undisturbed soil.
- 23 150 mm wide SPX foam surround on all GRP fittings on the pipe ends where the fittings protrude out of the thrust block



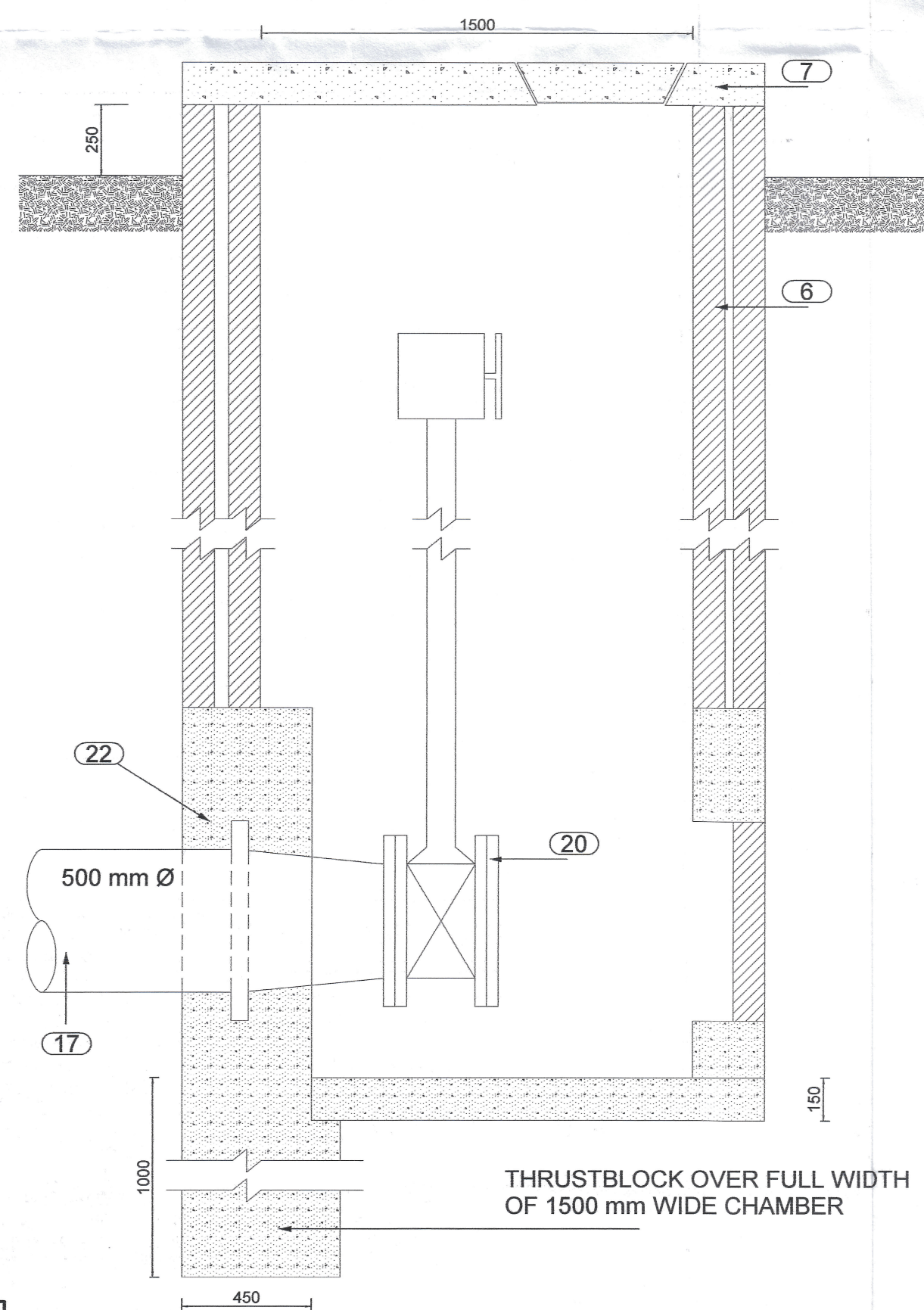
NODES 2, 3 and 4



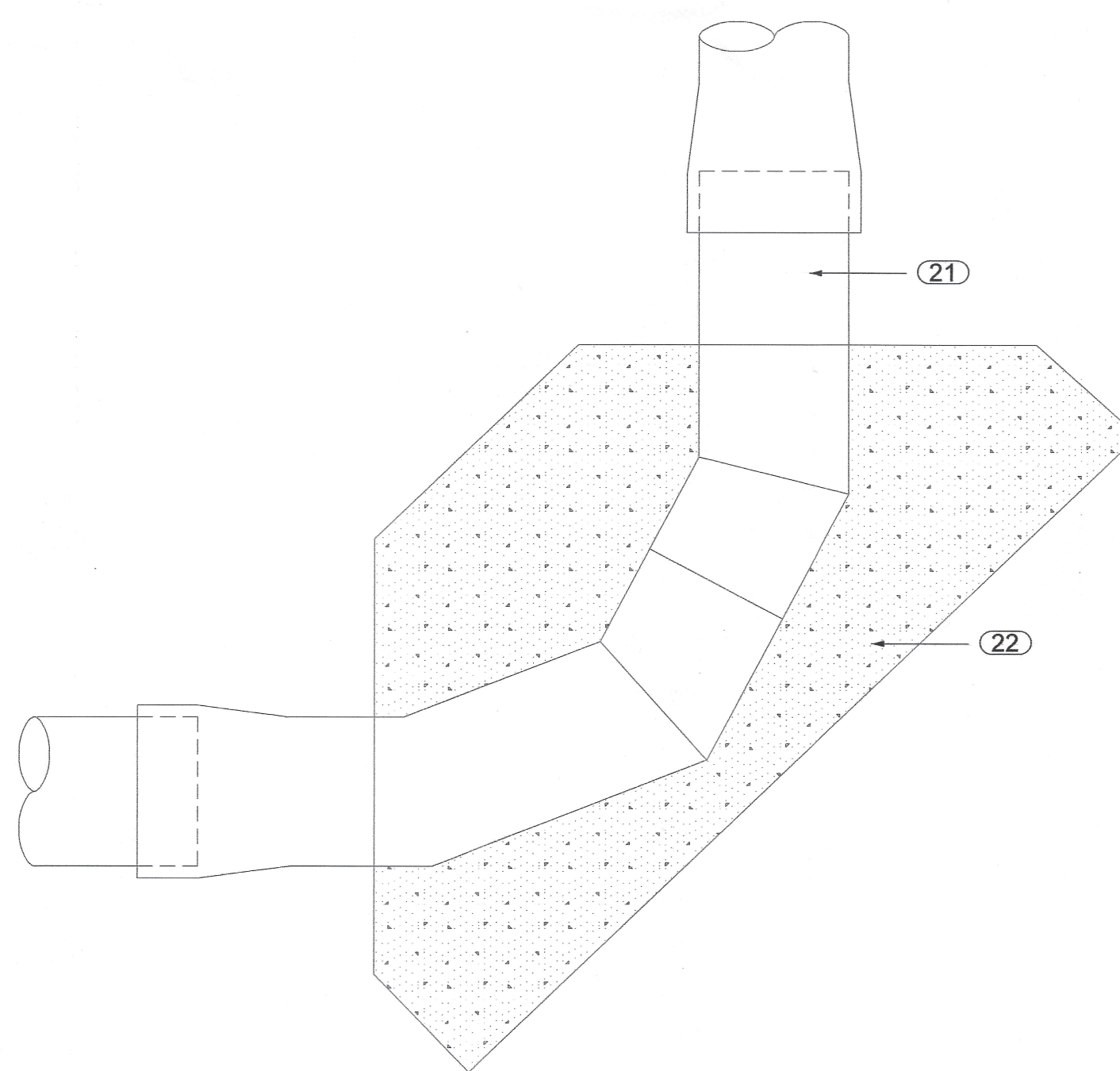
NODE 5



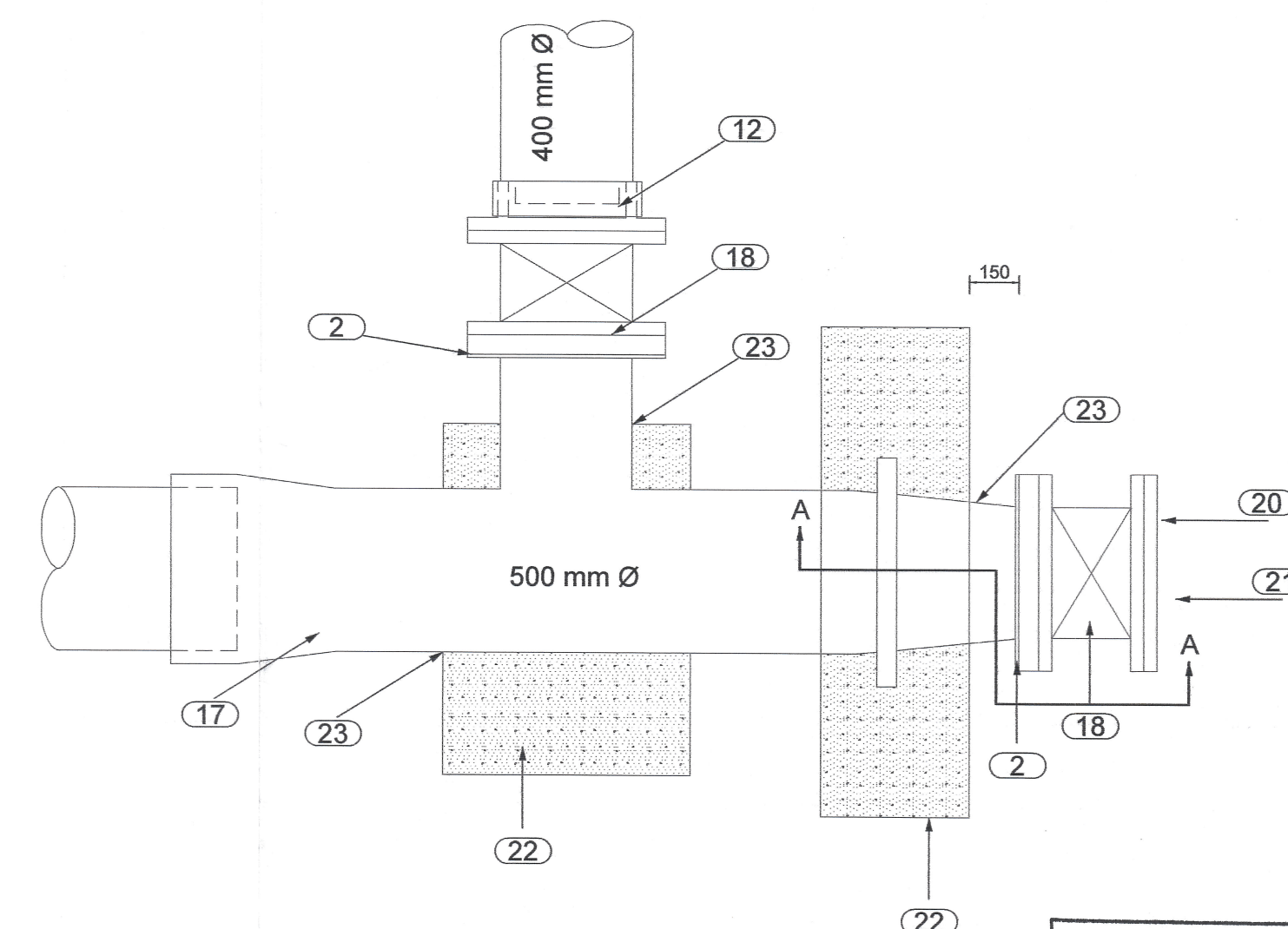
NODE 6



SECTION A-A



NODE 8



NODE 7

INFRASTRUCTURE
ENGINEERING BUSINESS UNIT
WATER DISTRIBUTION SUB-SILO
PROPOSED LAYOUT APPROVED
Distribution Engineer
Date 06/02/08

UTSHINTSHO / AMENDMENTS

| INANI NO. | UMHLA DATE | INKCAZA DESCRIPTION | IVUNYELWE APPROVED |
|-----------|------------|---------------------|--------------------|
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UMLINGAN-ISELO SCALE

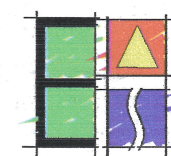
| |
|----------------------|
| UMLINGAN-ISELO SCALE |
| N.T.S. |

UMLINGANISELO WOMZOBO OHLISIWEYO SCALE ON REDUCED DRAWING

| |
|---|
| UMLINGANISELO WOMZOBO OHLISIWEYO SCALE ON REDUCED DRAWING |
| 50mm KUMZOBO WANGAPHAMBILI |
| 50mm ON ORIGINAL DRAWING |

| | |
|--------------------|------------|
| UMENZI DESIGN | JJ |
| UMZOBHI DRAWN | CP |
| IVUNYELWE APPROVED | JJ |
| UMHLA DATE | MARCH 2007 |

ENGINEERING ADVICE
AND SERVICES
associated with ULWAZI
73 Hough Road, Walmer
P.O. Box 13867
Humewood
Port Elizabeth
6013
tel/fax: (041) 581 2421



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|--------------------|
| IVUNYELWE APPROVED |
| IVUNYELWE APPROVED |
| UMHLA / DATE |

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|--------------------|
| IVUNYELWE APPROVED |
| IVUNYELWE APPROVED |
| UMHLA / DATE |

| |
|---|
| IPROJETI / PROJECT |
| CHELSEA RESERVOIR TO GREENBUSHES BULK WATER AUGMENTATION |
| UMZOBONKCAZA / DWG DESCRIPTION |
| NODE DETAILS |

| |
|-----------------------------------|
| INANI LESIVUMELWANO CONTRACT NO. |
| INANI LOMZOBO DWG. NO. 428-FIG-07 |
| UMHLA DATE |