LEGEND

- EXISTING 375mm AC WATER PIPE
- EXISTING 200mm Ø PVC-U CLASS 9
- EXISTING 160mm Ø PVC-U CLASS 9
- EXISTING 110mm Ø PVC-U CLASS 9
- EXISTING 75mm Ø PVC-U CLASS 9
- EXISTING 50mm Ø HDPE CLASS 10
- 12 NODE NUMBER
- FIRE HYDRANT
- VALVE
- DOUBLE LONG ERF CONNECTION
- DOUBLE SHORT ERF CONNECTION
- SINGLE LONG ERF CONNECTION
- SINGLE SHORT ERF CONNECTION

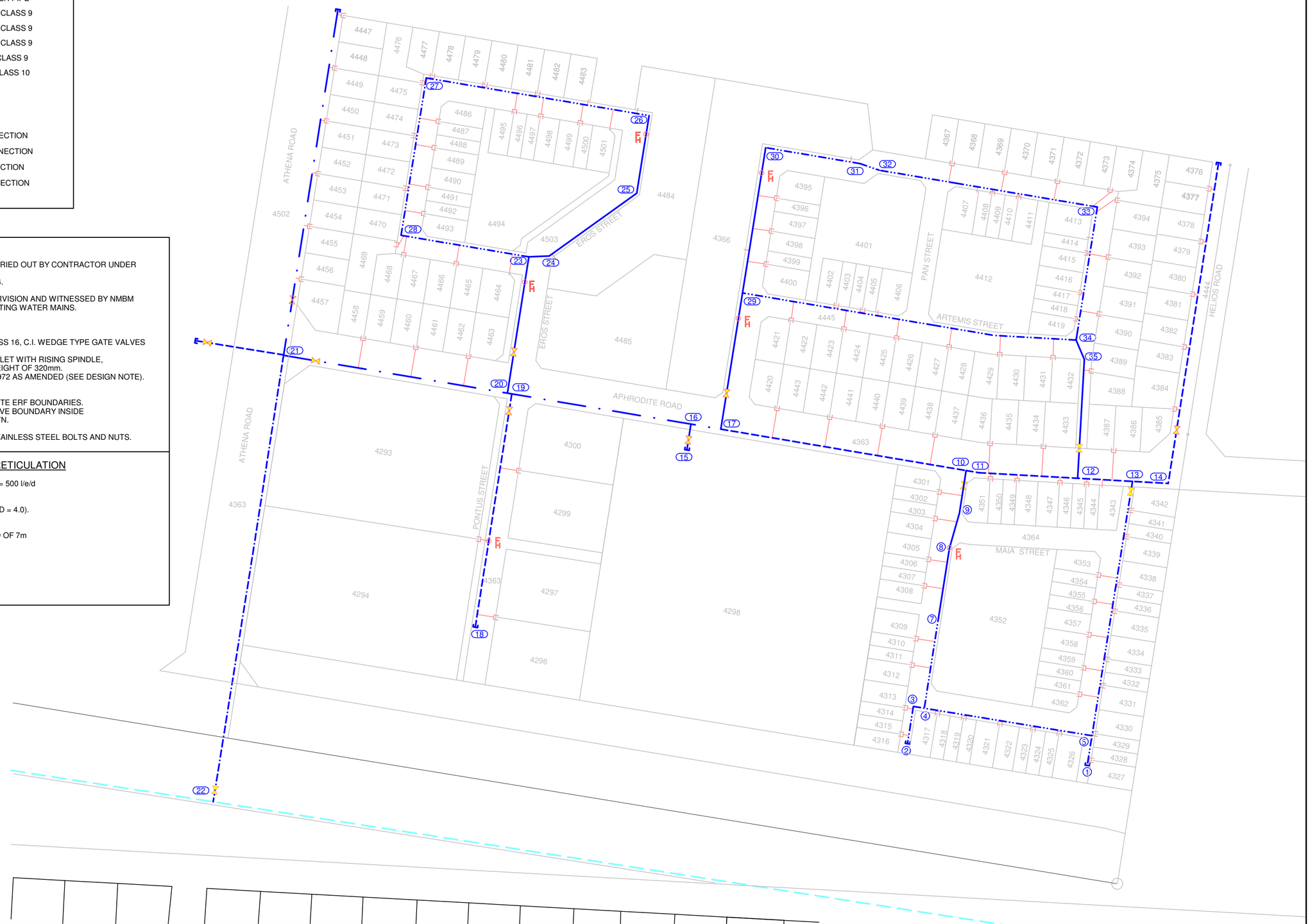
NOTES : CONSTRUCTION PURPOSES

1. CONNECTIONS INTO EXISTING WATER MAINS CARRIED OUT BY CONTRACTOR UNDER NMBM SUPERVISION.
2. THRUST BLOCK DESIGN TO DRAWING NO 426-R-04.
3. FIRE HYDRANTS TO DRAWING NO 426-R-04.
4. WATER LINES TESTED UNDER ENGINEER'S SUPERVISION AND WITNESSED BY NMBM WATER DIVISION PRIOR TO CONNECTION TO EXISTING WATER MAINS.
5. COVER TO ALL WATER MAINS:
   5.1 IN SIDEWALK; MIN. 0.74m; MAX. 1.25m.
   5.2 IN ROADWAY; MIN. 1.00m; MAX. 1.25m.
6. ALL VALVES ARE ANTI-CLOCKWISE CLOSING, CLASS 16, C.I. WEDGE TYPE GATE VALVES WITH NON-RISING SPINDLE.
7. HYDRANTS HAVE A LONDON ROUND THREAD OUTLET WITH RISING SPINDLE, CLOSING CLOCKWISE AND MAXIMUM OVERALL HEIGHT OF 320mm.
8. HYDRANT SPACING CONFORMS WITH SABS 090-1972 AS AMENDED (SEE DESIGN NOTE).
9. SUPPLY RESERVOIR : CHELSEA, T.W.L. 263m MSL
10. ALL PVCu WATER MAINS ARE CLASS 9.
11. VALVES AND HYDRANTS ARE INSTALLED OPPOSITE ERF BOUNDARIES.
12. ALL WATER MAINS ARE 1.5m FROM ROAD RESERVE BOUNDARY INSIDE THE ROAD RESERVE UNLESS OTHERWISE SHOWN.
13. ALL C.I. VALVES AND FITTINGS ARE FBE COATED.
14. ALL SADDLES AND FLANGES INSTALLED WITH STAINLESS STEEL BOLTS AND NUTS.

NOTES : DESIGN CRITERIA FOR WATER RETICULATION

1. AVERAGE DAILY DEMAND PER RESIDENTIAL ERF = 500 l/e/d
2. AVERAGE SIZE OF RESIDENTIAL ERVEN = 200m²
3. PEAK FACTOR = 2.5
4. SEASONAL PEAK = 1.5 (TOTAL PEAK FACTOR USED = 4.0).
5. FIRE FLOW :
   FIRE RISK CATEGORY - LOW RISK (GROUP 2).
   A FIRE FLOW OF 500 l/min WITH A RESIDUAL HEAD OF 7m AT ANY HYDRANT IN THE NETWORK.
6. MAX HYDRANT SPACING = 240m.
7. SUPPLY RESERVIOUR: CHELSEA TWL = 263MSL

(DESIGN BASED ON "GUIDELINES FOR HUMAN SETTLEMENT PLANNING AND DESIGN" - RED BOOK)



"UMNIKELO" "AS BUILT" - NOTES

FOR RECORD

UTSHINTSHO / AMENDMENTS

INANI NO.	UMHLA DATE	INKCAZA DESCRIPTION	IVUNYELWE APPROVED
A	22-04-2008	REVISED CADSTRAL LAYOUT	MS
B	09-05-2008	VALVE POSITION ON 200Ø PIPE MOVED CLOSER TO NODE 22	MS

UMLINGANISELO SCALE: 1 : 1250

UMLINGANISELO WOMZOBO OHLISIWEYO SCALE ON REDUCED DRAWING: 50mm KUMZOBO WANGAPHAMBILI; 50mm ON ORIGINAL DRAWING

UMENZI DESIGN	SB
UMZOBI DRAWN	CP
IVUNYELWE APPROVED	MS
UMHLA DATE	MARCH 2007

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

IVUNYELWE APPROVED: INJINELI./ENG. — UMHLA / DATE

IVUNYELWE APPROVED: UMENZELWA / CLIENT — UMHLA / DATE

IPROJETI / PROJECT: ERF 3 AND 4 PARSONS VLEI (Sub-Phases 1,2 and 3 of PHASE 1)

UMZOBONKCAZA / DWG DESCRIPTION: WATER RETICULATION LAYOUT

INANI LESIVUMELWANO CONTRACT NO.

INANI LOMZOBO DWG.NO. 426-R-02B

UMNIKELO ISSUE: A B