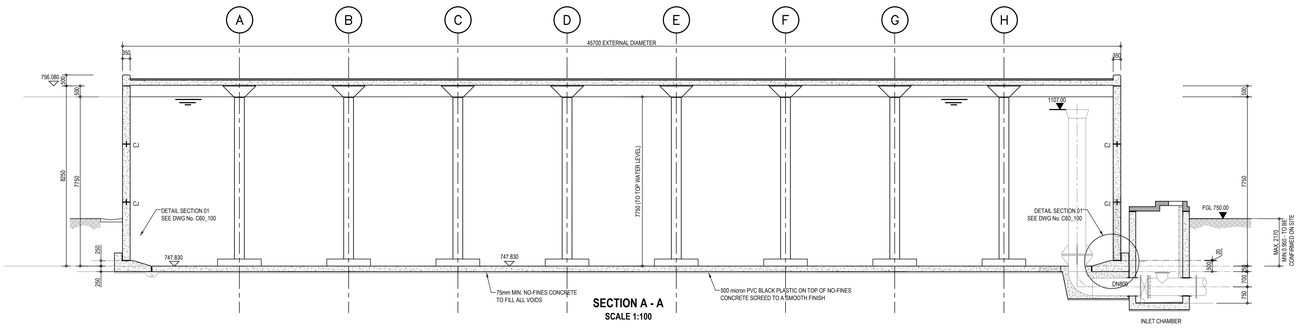
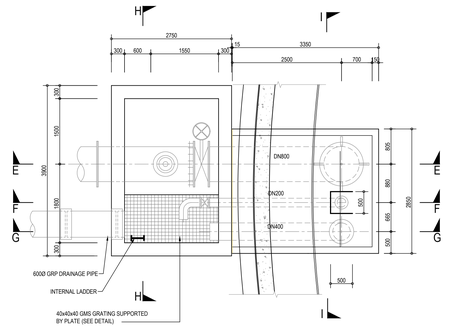
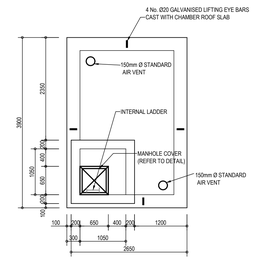


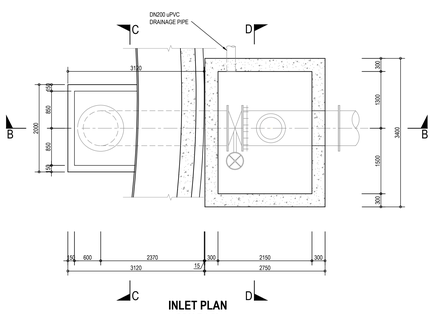
SECTION A - A
SCALE 1:100



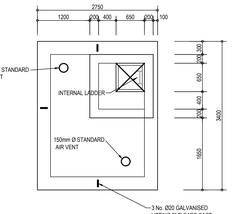
OUTLET PLAN
SCALE: 1:50



ROOF LAYOUT (OUTLET CHAMBER)
SCALE: 1:50



INLET PLAN
SCALE 1:50

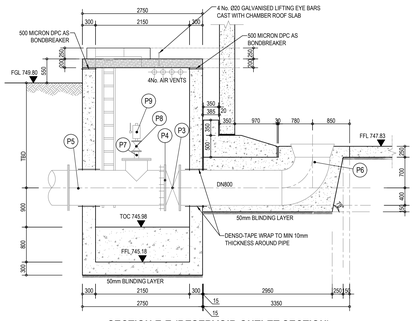


ROOF LAYOUT
(INLET CHAMBER)
SCALE: 1:50

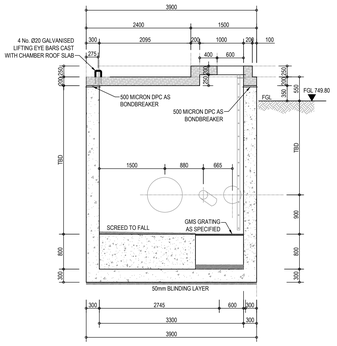
12ML RESERVOIR PIPE FITTINGS

REF. NO	DESCRIPTION	QUANTITY	BOQ ITEM No.
P1	DN560 EPOXY COATED AND LINED MILD STEEL PIPE. BUTTRESSED FLANGE ONE END AND DN1000 BELLMOUTH. 6650mm F/BELLMOUTH.	1	7.1.5
P2	DN560 EPOXY COATED AND LINED MILD STEEL SHORT RADIUS 90° BEND. FLANGED ONE END AND BUTTRESSED FLANGED THE OTHER. C/F 1470mm ONE END AND C/F 2900mm THE OTHER END.	1	7.1.6
P3	DN560 PN16 FLANGED DOUBLE OFF-SET BUTTERFLY VALVE WITH GEARBOX AND HANDLE WHEEL	2	7.1.7 & 7.1.10
P4	DN560 VJ OR SIMILAR APPROVED FLANGE ADAPTOR FOR STEEL PIPE.	2	7.1.8 & 7.1.11
P5	DN560 EPOXY COATED AND LINED MILD STEEL PIPE FLANGED ONE END AND PLAIN-ENDED THE OTHER END WITH DN600 FLANGED BRANCH. PIPE BARREL TO BE 2200mm F/F WITH BRANCH 650mm C/PLAIN-END AND 650mm C/F.	2	7.1.9 & 7.1.12
P6	DN560 EPOXY COATED AND LINED MILD STEEL SHORT RADIUS 90° BEND. FLANGED ONE END AND DN560 BELLMOUTH THE OTHER. 1000mm C/BELLMOUTH AND 3000mm C/F.	1	7.1.13
P7	DN100 EPOXY COATED AND LINED RISER PIECE WITH DN500 FLANGE ONE SIDE AND DN100 THE OTHER, 150mm F/F.	1	7.1.14
P8	DN100 RS GATE VALVE WITH NON-RISING SPINDLE AND HANDWHEEL	1	7.1.15
P9	DN100 MULTI-ORIFICE ANTI-SHOCK AIR VALVE AS SPECIFIED	1	7.1.16
P10	DN200 EPOXY COATED AND LINED MILD STEEL SHORT RADIUS 90° BEND. FLANGED ONE END AND DN300 BELLMOUTH THE OTHER. 800mm C/BELLMOUTH AND 2900mm C/F.	1	7.1.17
P11	DN200 PN10 CLOCKWISE CLOSING NON-RISING SPINDLE FLANGED WEDGE GATE VALVE TO SANS 664.	1	7.1.18
P12	DN200 EPOXY COATED AND LINED MILD STEEL SHORT RADIUS 90° BEND. FLANGED ONE END AND PLAIN-ENDED THE OTHER END WITH STANDARD C/F DIMENSIONS.	1	7.1.19
P13	DN400 EPOXY COATED AND LINED MILD STEEL SHORT RADIUS 90° BEND. PLAIN ONE END AND BUTTRESSED FLANGE THE OTHER END. 3200mm C/PLAIN END AND 1250mm C/F.	1	7.1.20
P14	DN400 EPOXY COATED AND LINED MILD STEEL PIPE. BUTTRESSED FLANGE ONE END AND DN600 BELLMOUTH THE OTHER END. 7600mm F/BELLMOUTH.	1	7.1.21
P15	DN1200 x 1200 GUSSETTED TEE, WITH 45° DN560 LATERAL & DN1200 x 800 ECCENTRIC REDUCERS ALL ROUND. GUSSET TEE 220mm C/F, REDUCER SEGMENT TO BE 400mm AND DN560 BARREL TO EXTEND 600mm. GUSSETTED TEE 5100mm C/PLAIN END, DN1200 BARREL TO BE LOCATED 2000mm C/C AND 2000 C/F AND COMPLETE WITH 10mm KEEPER RING FOR CML.		

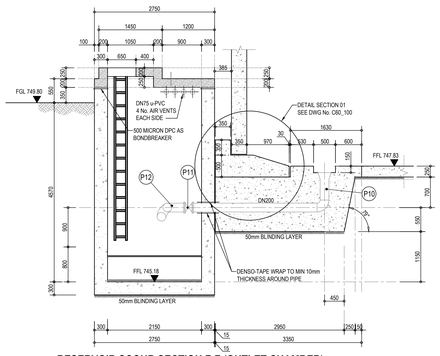
NOTE: ALL FLANGE DRILLINGS TO BE AS ACCORDING TO SANS 1123 TABLE 1000/3



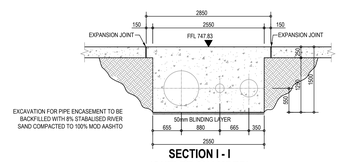
SECTION E-E (RESERVOIR OUTLET SECTION)
SCALE 1:50



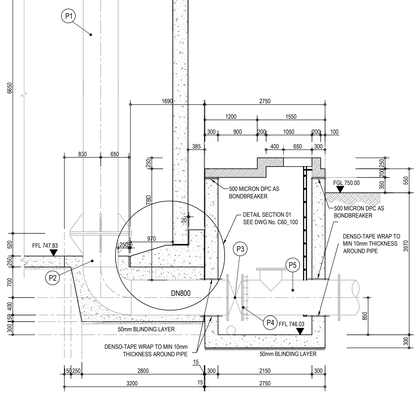
SECTION H - H
OUTLET VALVE CHAMBER
SCALE: 1:50



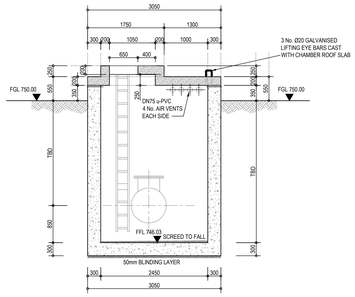
RESERVOIR SCOUR SECTION F-F (OUTLET CHAMBER)
SCALE 1:50



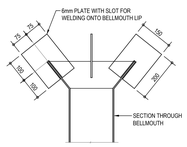
SECTION I - I
(OUTLET CHAMBER)
SCALE 1:50



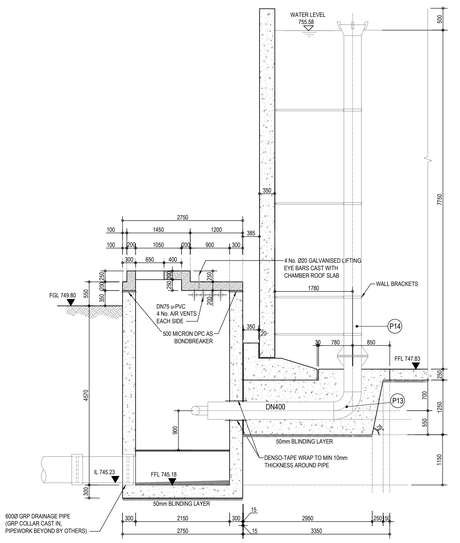
SECTION B - B (RESERVOIR INLET SECTION)
SCALE 1:50



SECTION D - D (INLET CHAMBER)
SCALE 1:50



ANTI-VORTEX PLATE DETAIL
SCALE 1:10



SECTION G-G RESERVOIR OVERFLOW (OUTLET CHAMBER)
SCALE 1:50

INTENDED CONSTRUCTION SEQUENCE:
- CAST BASE WITH STARTERS FOR UPSTAND
- CAST WALLS ON BEARING STRIP
- PRESTRESS WALLS
- APPLY 20MM JOINTEX TO WALL
- CAST UPSTAND AGAINST JOINTEX
- APPLY SEALING SYSTEM ON THE INSIDE
- TEST RESERVOIR
- IF PASSING, APPLY SEALING SYSTEM ON THE OUTSIDE
- BACKFILL

FUNDER:

Department of Water and Sanitation

water & sanitation
Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Physical Address :
195 Francis Baard Street
Pretoria
0001
South Africa

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private Bag X313
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CLIENT:

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Middelburg
1050

Telephone Number : (013) 249 2000

ENGINEER:

KUFANIKIWA CONSULTING

Physical Address :
11 Derby Place
Derby Downs Office park
Westville

Telephone Number : (031) 701 1038
Facsimile Number : (031) 701 0963
E-mail Address : www.kufanikiwa.co.za
Website Link or Address : info@kufanikiwa.co.za

DRAWING REVISIONS

REV	DATE	DRAWN	CHECKED	DESCRIPTION

PROJECT NAME:

WESTERN HIGHVELD BULK WATER SCHEME

DRAWING TITLE:

PROPOSED 11.5ML COMMAND RESERVOIR
SECTION DETAIL

RESPONSIBLE PERSONNEL		SIGNATURE	DATE
DESIGNED	**S MASONDO**		
DRAWN	**L JIYANA**		
CHECKED	**S MNGADI (PR Tech Eng)**		
APPROVED	**M NDLOVU (PR Tech Eng)**		
SCALE	**AS SHOWN**		

APPROVED ; CLIENT

SIGNATURE DATE

PROJECT NUMBER	DRAWING NUMBER		
VU-WTR-21-006	201		
STAGE	SHEET SIZE	SHEET No.	REVISION
TENDER	A0	1 OF 1	0

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