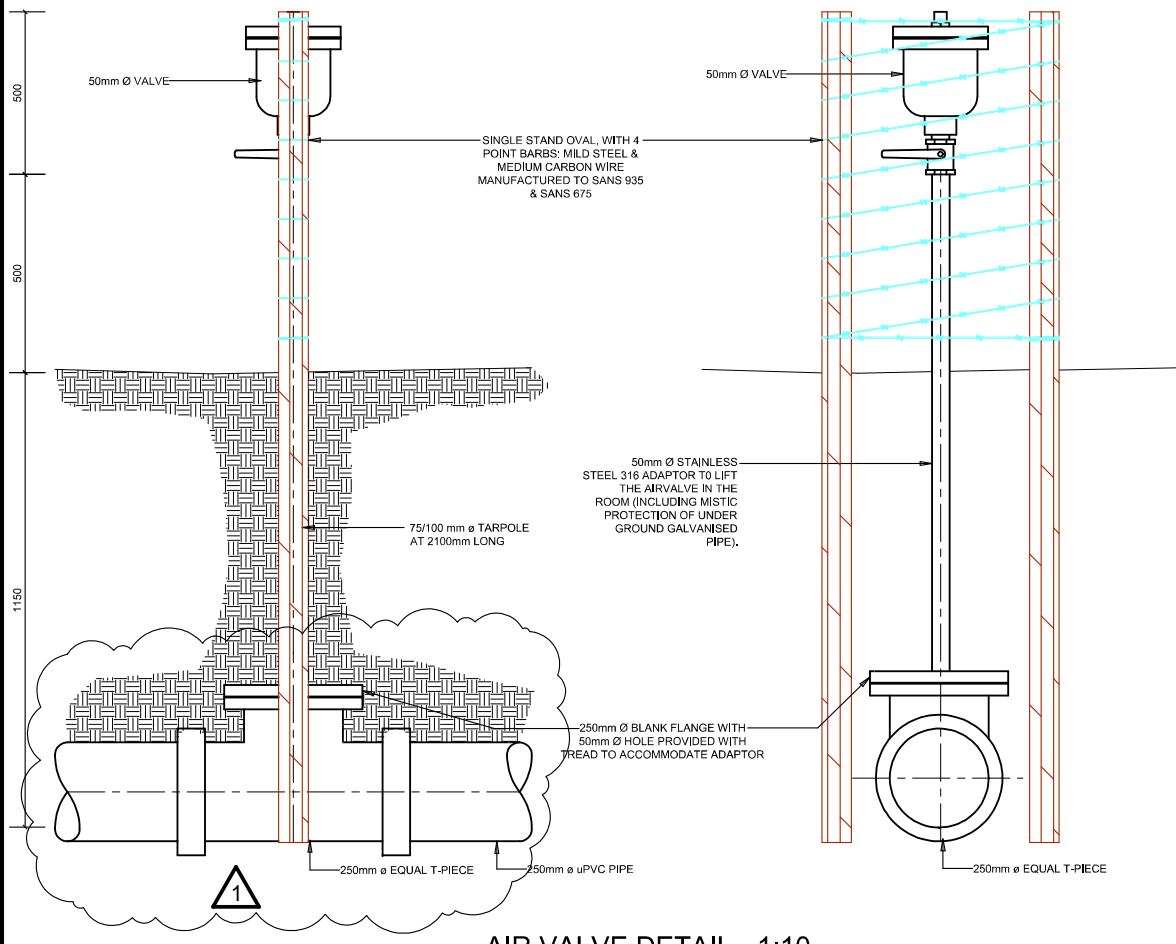
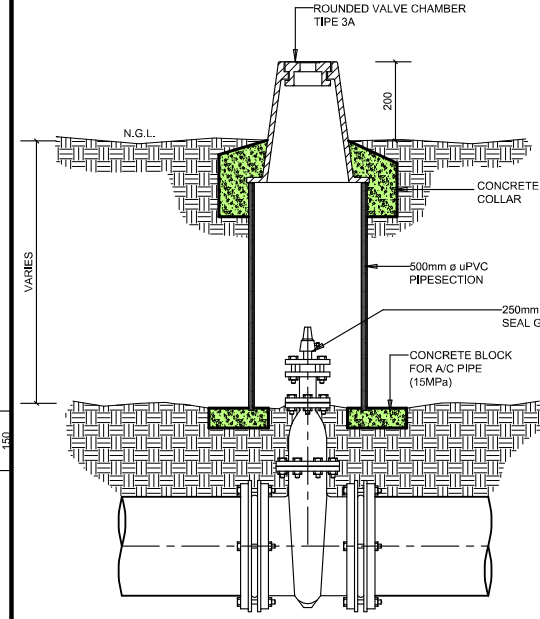


SCOUR VALVE DETAIL - 1:10



AIR VALVE DETAIL - 1:10



ISOLATING VALVE DETAIL - 1:10

### GENERAL NOTE:

1. VALVES ACCORDING TO BS 1218 CATEGORY 1.
2. VALVES CLOSES CLOCKWISE.
3. VALVES HAS TO BE PROVIDED WITH CLOCKHEADS FOR THE OPENING AND CLOSING KEY.
4. FOR 300mm Ø PIPE AND BIGGER, VALVES HAS TO BE PROVIDED WITH FRICTION MINIMISING, AS SPECIFIED.
5. ALL VALVES CONSIST OF FLANGES OR SHORT COLLAR HEADPIECES.
6. ALL FLANGES OR HEADPIECES WHICH ARE INSTALLED UNDERGROUND HAS TO BE WRAPPED IN CORROSION SECURED TAPE.
7. AIR VALVE CHAMBERS WILL HAVE A MINIMUM INTERNAL DIMENSION OF AT LEAST 1m X 1m.

**GENERAL**

\* THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORKMANSHIP CONFORM WITH THE DETAILS AND SPECIFICATIONS SHOWN ON THIS DRAWING, AND ALL RELEVANT SABS SPECIFICATIONS, IRRESPECTIVE OF WHETHER THE ENGINEER HAS INSPECTED THE WORKS ON SITE OR NOT.

\* ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND CORRELATED WITH THE ENGINEER'S DRAWINGS BEFORE CONSTRUCTION COMMENCES.

\* NO SCALING WITH SCALE RULER FROM THE DRAWING IS PERMITTED. THE CONTRACTOR MUST ENSURE THAT HE GETS THE CORRECT DIMENSIONS FROM THE ENGINEER BEFORE CONSTRUCTION COMMENCES.

**DRAWING NOT PRINTED TO SCALE  
REDUCED FROM A1 TO A3.**

ISSUE DATE:	DRAWING SIZE:	REVISION:
29 Aug 2012	A1	0

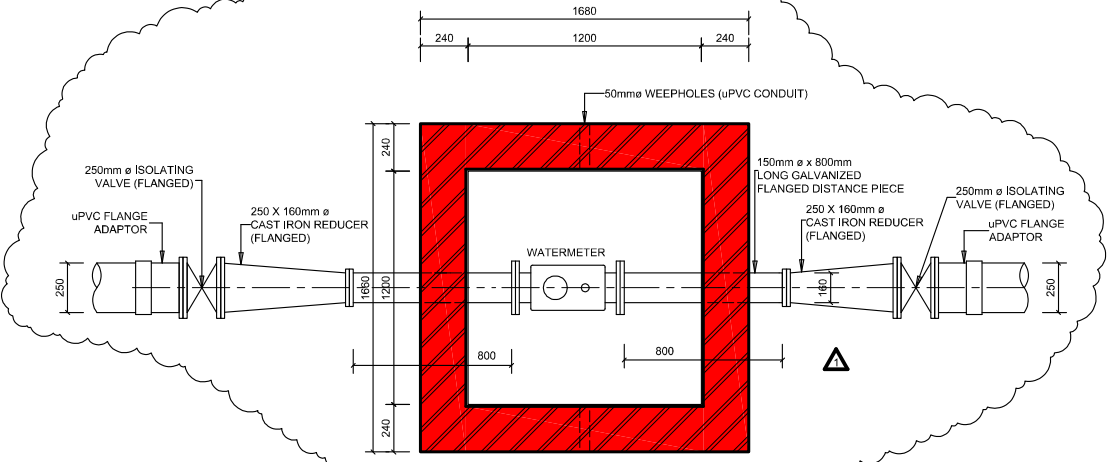
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**INFO ONLY**

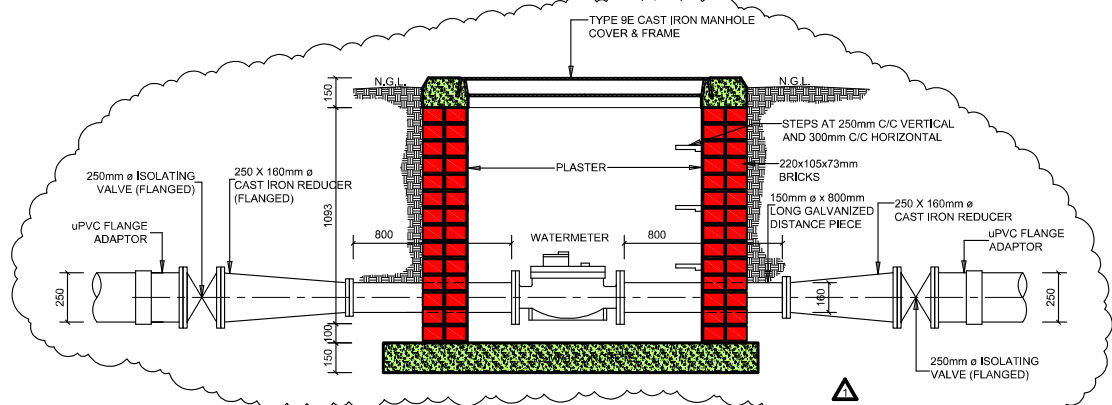
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**FOR CONSTRUCTION**

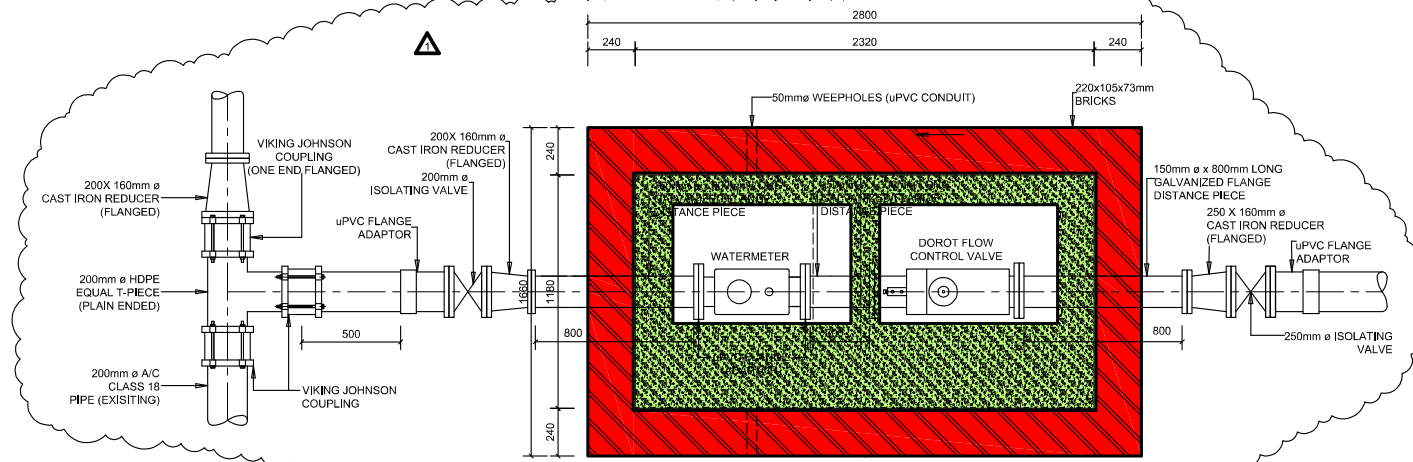
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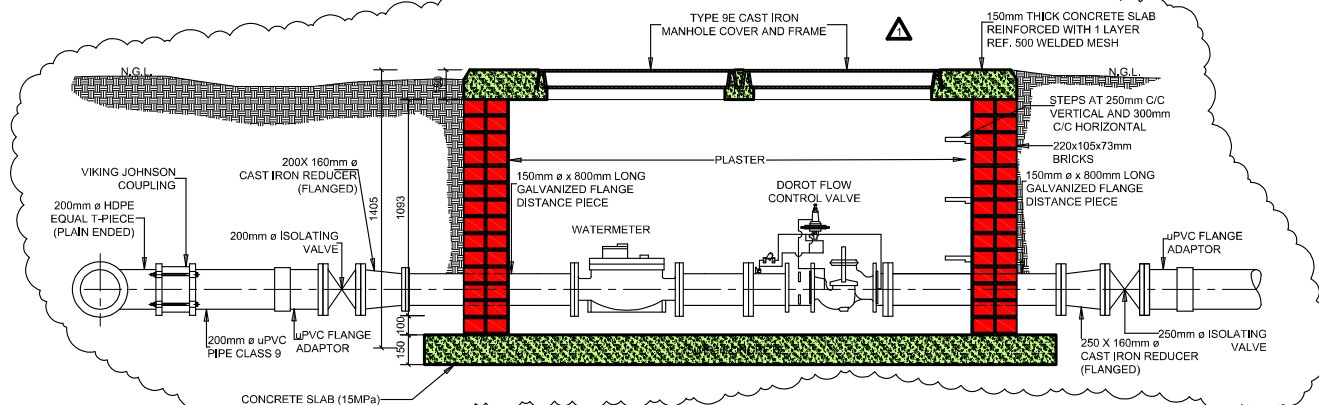
PLAN:  
BOTSWANA: BULK WATERMETER BOX - 1:20



SECTION:  
BOTSWANA: BULK WATERMETER BOX - 1:20



PLAN:  
LONELY: NEW CONNECTION TO BOTSWANA ON EXISTING A/C PIPELINE - 1:20



SECTION:  
LONELY: NEW CONNECTION TO BOTSWANA ON EXISTING A/C PIPELINE - 1:20

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**bvi**

**CONSULTING ENGINEERS**

Civil, Structural & Electrical Engineers, Environmental & Project Management

Registration No. 1996/00301/07

**CLIENT**

## KALAHARI EAST WATER USERS ASSOCIATION

## WATER SUPPLY PIPELINE TO BOTSWANA, MIDDELPUTS AREA

## PIPE LINES: SCOUR VALVE, VALVE CHAMBER, AIR VALVE & WATERMETER BOX DETAILS

ENGINEER/TECHNOLOGIST	REG. NO.	DATE
A. Francis		
DESIGNED	CHECKED	
M. du Plessis	F.D. Maritz	
PLAN NUMBER	REVISION NO.	DATE SAVED
U10329C-143-02	1	09 Oct 2012